BEFORE THE INDUSTRIAL COMMISSION

OF THE STATE OF NORTH DAKOTA

CASE NO. 7945 ORDER NO. 9365

IN THE MATTER OF A HEARING CALLED ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF EAGLE OPERATING, INC. FOR AN ORDER GRANTING AN AREA PERMIT FOR UNDERGROUND INJECTION OF FLUIDS INTO THE UNITIZED FORMATION OF THE MOHALL-MADISON UNIT, RENVILLE AND BOTTINEAU COUNTIES, NORTH DAKOTA, PURSUANT TO CHAPTER 43-02-05 OF THE NORTH DAKOTA ADMINISTRATIVE CODE, AND PROVIDING SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS NECESSARY.

ORDER OF THE COMMISSION

THE COMMISSION FINDS:

- (1) This cause came on for hearing at 9:00 a.m. on the 20th day of November, 2002. Order No. 9341 continued the decision in this matter for thirty (30) days or until further order of the Commission.
- (2) Order No. 9289 entered in Case No. 7894, authorized the unitized management and operation of the Mohall-Madison Unit.
- (3) Order No. 9324 determined that the Mohall-Madison Unit became effective November 1, 2002.
- (4) Eagle Operating, Inc. made application to the Commission for an order granting an area permit for underground injection of fluids into the unitized formation of the Mohall-Madison Unit, Renville and Bottineau Counties, North Dakota, pursuant to Chapter 43-02-05 of the North Dakota Administrative Code (NDAC), and providing such other and further relief as the Commission deems necessary.
- (5) Injection would be into the unitized formation, described as the Mohall subinterval of the Mission Canyon Formation, within the Mohall-Madison Unit to enhance the recovery of oil.
- (6) The water found in the Mohall subinterval of the Mission Canyon Formation in this area contains in excess of 10,000 parts per million of total dissolved solids.
- (7) Proposed injection wells will be sited in such a fashion that they will inject into a formation which has confining zones that are free of known open faults or fractures within the area of review.
 - (8) The proposed injection wells will be constructed and

operated in such a manner as to prevent the movement of fluids into or between underground sources of drinking water.

- (9) Exhibit 8, which contains copies of fresh water analyses, does not identify all the wells by quarter-quarter, section, township, and range. To eliminate confusion when permitting future injection wells, Exhibit 8 should be amended.
- (10) In order to enhance the recovery of oil, prevent possible damage to surface lands and contamination of surface and subsurface waters, this application should be granted.

IT IS THEREFORE ORDERED:

- (1) Exhibit 8 shall be amended to include the quarterquarter, section, township, and range for all fresh water wells.
- (2) Eagle Operating, Inc., its assigns and successors, is hereby granted an area permit for underground injection into the unitized formation within the Mohall-Madison Unit defined as the following described tracts of land in Bottineau and Renville Counties, North Dakota:

TOWNSHIP 162 NORTH, RANGE 84 WEST, 5TH PM THE SE/4 OF SECTION 25 AND THE NE/4 OF SECTION 36,

TOWNSHIP 162 NORTH, RANGE 83 WEST, 5TH PM ALL OF SECTION 31, THE S/2 OF SECTION 30, AND THE S/2 OF THE NW/4 AND THE SW/4 OF SECTION 32,

TOWNSHIP 161 NORTH, RANGE 83 WEST, 5TH PM THE W/2 OF SECTION 5, THE E/2, THE NW/4, AND E/2 OF THE SW/4 OF SECTION 6, AND THE N/2 OF THE NE/4 OF SECTION 7.

- (3) Underground injection operations shall be conducted pursuant to NDAC Chapter 43-02-05.
- (4) The Mohall-Madison Unit operator may, from time to time, use certain existing wells, or wells to be drilled, for the purpose of injecting water and/or other substances into the unitized formation, upon approval by the Commission. The application for such approval shall be in accordance with statutes and rules of the Commission and contain at least the following:
 - (a) Completed Application For Injection (Form 14).
 - (b) Plat depicting the area of review (1/4 mile radius) detailing the location, well name, and type of well for all injection wells, producing wells, plugged wells, abandoned wells, drilling wells, dry holes, and water wells. The plat should also depict faults, if known or suspected.
 - (c) Tabulation of data, if not previously submitted with the area permit application, on all wells of public record within the area of review that penetrated the proposed injection zone. Included shall be the following data: location, date drilled, total depth, well type, construction, record of plugging or completion, and any additional information the Commission may require.

- $\,$ (d) Description of the needed corrective action on wells penetrating the injection zone in the area of review.
- (e) Location of the two nearest freshwater wells by quarter-quarter, section, township, and range, and dates sampled. A quantitative analysis from a state-certified laboratory must be submitted with the application or within 30 days of sampling if the analysis was not submitted with the area permit application.
- (f) All logging and testing data on the well which has not been previously submitted.
- (g) Schematic drawing of the proposed well bore construction.
- (h) Sundry notice detailing the proposed conversion procedure.
- (i) Any additional information deemed necessary by the Director.
- (5) The Mohall-Madison Unit operator shall be permitted to drill additional wells at any location within the Unit area, no closer than 500 feet to the boundary of the Unit.
- (6) In the event the Unit operator fails to commence or ceases enhanced recovery operations, the Commission upon its own motion, after due notice and hearing, may consider rescinding this order.
- (7) In the event the Mohall-Madison Unit is terminated, this order shall also terminate.
- (8) This order shall remain in full force and effect until further order of the Commission.

Dated this 31st day of December, 2002.

INDUSTRIAL COMMISSION STATE OF NORTH DAKOTA

- /s/ John Hoeven, Governor
- /s/ Wayne Stenehjem, Attorney General
- /s/ Roger Johnson, Agriculture Commissioner



WILLIAM R. PEARCE 1910-1978
WILLIAM P. PEARCE
PATRICK W. DURICK
B. TIMOTHY DURICK
GARY R. THUNE *
DAVID E. REICH
JEROME C. KETTLESON
LARRY L. BOSCHEE *
LOWRENGE BENDER, PC *
IONATHAN P. SAN-STEAD

ATTORNEYS AT LAW 314 EAST THAYER AVENUE PO BOX 400

P.O. BOX 400 BISMARCK, NORTH DAKOTA 58502



TELEPHONE (701) 223-2890 FAX (701) 223-7865 aw office@pearce-durick com

> OF COUNSE: HARRY J. PEARCE

March 17, 2003

<u>HAND DELIVERED</u>

Mr. Mark Bohrer North Dakota Industrial Commission Oil and Gas Division 600 East Boulevard Avenue Bismarck, ND 58505

CASE NO. 7945, ORDER NO. 9365, AREA PERMIT FOR UNDERGROUND INJECTION, MOHALL-MADISON UNIT, RENVILLE COUNTY, NORTH DAKOTA

Dear Mark:

Pursuant to our several recent telephone conversations, please find enclosed herewith, as required by the above-referenced order, an amended Exhibit 8 which sets forth the quarter/quarter, section, township and range for all the freshwater wells. Also, for your use, is a plat map which, *inter alia*, also sets forth the location of all freshwater wells in the area of review.

Should you have any questions, please a

LB/leo Enclosure

cc: Mr. Greg Steiner - (w/o enc.)

HMENDED

4102 2nd Avc. West

Williston, North Dakota 58802-0972 P.O. Box 972

WATER ANALYSIS REPORT

AMPLE NUMBER W-02-1046

DATE OF ANALYSIS 5-29-02

COMPANY Eagle Operating

ITY Kenmare STATE ND 701) 572-7355

ELL NAME AND/OR NUMBER Don Henes Well

MITE RECEIVED 5-14-02 DST NUMBER

AMPLE SOURCE

Surface Well

SWSW OCATION.

OF SEC. 36

162 TWN.

RANGE

Renville COUNTY

ORMATION

DEPTH 16'

ISTRIBUTION Greg Steiner - Kenmare, ND

ESISTIVITY @ 77°F = 4.233 Ohm-Meters

pH = 9.02

PECIFIC GRAVITY @ 77°F = 1.000

H_€S = Negative

DTAL DISSOLVED SOLIDS (CALCULATED) =

1631 mg/L (1631 ppm)

DIUM CHLORIDE (CALCULATED) =

297 mg/L (297 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/Ĺ
CALCIUM	5.6	111	CHLORIDE	5. i	180
MAGNESIUM	10.2	113	CARBONATE	0.3	9
SOD I UM	8.2	188	BICARBONATE	10.0	616
I RON	0.0	0.0	SULFATE	8.8	392
CHROMIUM	0.0	0.0	NITRATE	0.3	18
BARIUM	0.0	0.0		•••	
POTASSIUM	0.3	10			

WATER ANALYSIS PATTERN

та , К	1.0 8	 5	1.0 C1
9	1.0 6	10	1.0 HCO₃
đ	1.0 10		1.0 504
2	0.1 0	3	0.1 CO ₃

Date Sampled 5-14-02 Conductivity = 3258.1 μmbos/cm :MARKS

<u>ANALYZ</u>ED BY:

AMENDED

ASTRO-CHEM LAB, II

P.O. Box 972

WATER ANALYSIS REPORT

SAMPLE NUMBER W-02-1043

DATE OF ANALYSIS 5~29~02

COMPANY:

Eagle Operating

SITY Kenmare

4102 2nd Ave. West

STATE ND (701) 572-7355

JELL NAME AND/OR NUMBER Dale Randas Well

ATE RECEIVED

5-14-02

DST NUMBER

MAPLE SOURCE

Surface Well

JOCATION SWSW

OF SEC. 30

TWN. 162

RANGE 83

COUNTY Bottineau

ORMATION

DEPTH 12'

ISTRIBUTION Greg Steiner - Kenmare, ND

ESISTIVITY @ 77°F = 3.419 Ohm-Meters

= Ha 7.22

PECIFIC GRAVITY @ 77°F = 1.000

H_€S = Negative

"OTAL DISSOLVED SOLIDS (CALCULATED) = 2131 mg/L (2131 ppm)

ODIUM CHLORIDE (CALCULATED) = 445 mg/L (445 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM MAGNESIUM SODIUM IRON CHROMIUM BARIUM POTASSIUM	18.4 7.6 2.0 0.0 0.0 0.0	365 84 45 0.0 0.0 0.0	CHLORIDE CARBONATE BICARBONATE SULFATE NITRATE	7.6 0.0 11.6 4.1 7.3	270 0 708 197 452

WATER ANALYSIS PATTERN

ia, K	1.0 2	8	1.0 Cl
a .	1.0 18	12	1.0 HCD3
· ति	1.0 8	4	1.0 504
5	0.1 0	0	0.1 003

CMARKS

Date Sampld 5-14-02

Conductivity = 2721.3 µmhos/cm

<u>ANALYZED BY: C. Hagen</u>

4102 2nd Ave. West

P.O. Box 972

WATER ANALYSIS REPORT

SAMPLE NUMBER W-02-1044

DATE OF ANALYSIS

COMPANY Eagle Operating

CITY Kenmare

STATE ND)() 572-7355

WELL NAME AND/OR NUMBER Harold Ring - House Well

DATE RECEIVED

5-14-02

DST NUMBER

SAMPLE SOURCE

Dugout Well

LOCATION SWSE

OF SEC. 32

TWN. 162

RANGE 83

COUNTY Bottineau

FORMATION

DEPTH

DISTRIBUTION Greg Steiner - Kenmare, ND

RESISTIVITY @ 77°F = 13.838 Ohm-Meters

рН≍

SPECIFIC GRAVITY @ 77°F = 1.000

H&S = Negative

TOTAL DISSOLVED SOLIDS (CALCULATED) =

531 mg/L (531 ppm)

SODIUM CHLORIDE (CALCULATED) = 18 mg/L (18 ppm)

CATION	MEQ/L	#g/L	ANION	MEQ/L	mg/L
CALCIUM MAGNESIUM SODIUM IRON CHROMIUM BARIUM	3.8 2.0 0.8 0.2 0.0 0.0	75 22 18 2.8 0.0 0.0	CHLORIDE CARBONATE BICARBONATE SULFATE NITRATE	0.3 0.0 6.4 0.0 0.0	11 0 391 0

WATER ANALYSIS PATTERN

Na,K	1.0	1	1.0 Cl
Ca	1.0	46	
Mg	1.0		
Fe	0.1	s0	0.1 504
			0.1 COm

MEQ/L

REMARKS

Date Sampled 5-14-02 Conductivity = 717.9 μmhos/cm

ANALYZED BY: <u>C. Hagen</u>

Eagle Operating Inc. - Mohall Madison Unit - Spot Map Proposed Injection Wells - Area of Review Texota Chandler & Assoc Crooks 7-25 29 . Eagle Operating Crooks 15-25 Eagle Operating
Ivan Gehringer 3 Eagle Operating Ivan Gehringer 4 Eagle Operating
Erickson-State 1-36 F 162 N Eagle Operating Ivan Gehringer T-2 #1 32 36 Eagle Operating Mohall Park 1 Eagle Operating
E M Davis 1 Eagle Operating Ring 2 Monsanto Kreider 1 Eagle Operating Skelly Hutton 1 Mohall Madison Eagle Operating Sam Simpson et al : **Unit Outline** T 161 N Eagle Operating Gell Hutton 1 Boundary of Eagle Operating Area of Review Eagle Operating Carl Gitseth 1 Eagle Operating George Shurson et al 1 Eagle Operating
Witterman 1-A Golden & Land Clyde Jone Eagle Operating George Witteman #1 SWD 12 **R84W R83W** Bottineau Co. LEGEND Renville Co. Abandoned Producer Producing Well Location ● Freehwater Well Injection Well Disposal Well

STATE OF NORTH DAKOTA

AFFIDAVIT OF MAILING

COUNTY OF BURLEIGH

I, Donna Bauer, being duly sworn upon oath, depose and say: That on the 3rd day of January, 2003 enclosed in separate envelopes true and correct copies of the attached Order No. 9365 the North Dakota Industrial Commission, and deposited the same with the United State Postal Service in Bismarck, North Dakota, with postage thereon fully paid, directed to the following persons by the Industrial Commission in Case No. 7945:

John Morrison Fleck, Mather & Strutz Ltd. P. O. Box 2798 Bismarck, ND 58502

Lawrence Bender Pearce & Durick P. O. Box 400 Bismarck, ND 58502

Greg Steiner
Eagle Operating
P. O. Box 853
Kenmare, ND 58746

David Witteman P. O. Box 309 Mohall, ND 58761

Donna Bauer
Oil & Gas Division

n Bruns

On this <u>3rd</u> day of <u>January, 2003</u>, before me personally appeared <u>Donna Bauer</u> to me known as the person described in and who executed the foregoing instrument and acknowledged that she executed the same as her free act and deed.

Notary Public

State of ND, County of Burleigh My Commission expires <u>11-03-2004</u>

BEFORE THE INDUSTRIAL COMMISSION

OF THE STATE OF NORTH DAKOTA

CASE NO. 7945 ORDER NO. 9343

IN THE MATTER OF A HEARING CALLED ON MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF EAGLE OPERATING, INC. FOR AN ORDER GRANTING AN AREA PERMIT FOR UNDERGROUND INJECTION OF FLUIDS INTO THE UNITIZED FORMATION OF THE MOHALL-MADISON UNIT. RENVILLE AND BOTTINEAU COUNTIES, NORTH DAKOTA, PURSUANT TO CHAPTER 43-02-05 OF THE NORTH DAKOTA ADMINISTRATIVE CODE, AND PROVIDING SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS NECESSARY.

ORDER OF THE COMMISSION

THE COMMISSION FINDS:

- (1) This cause came on for hearing at 9:00 a.m. on the 20th day of November, 2002.
- (2) North Dakota Century Code Section 38-08-11 provides the Commission shall enter its orders within thirty (30) days after hearing.
- (3) The Commission has scheduled a meeting on December 31, 2002 to decide this case heard on November 20, 2002, although such date is beyond the thirty (30) days required by law. Additional time is necessary to render a decision in this case, therefore, this matter should be continued.

IT IS THEREFORE ORDERED:

(1) This matter is hereby continued for thirty (30) days or until further order of the Commission.

Dated this 18th day of December, 2002.

INDUSTRIAL COMMISSION STATE OF NORTH DAKOTA

By the Director, on behalf of the Commission.

/s/ Lynn D. Helms, Director

STATE OF NORTH DAKOTA

AFFIDAVIT OF MAILING

COUNTY OF BURLEIGH

John Morrison Fleck, Mather & Strutz Ltd. P. O. Box 2798 Bismarck, ND 58502

Lawrence Bender Pearce & Durick P. O. Box 400 Bismarck, ND 58502

Greg Steiner Eagle Operating P. O. Box 853 Kenmare, ND 58746

David Witteman P. O. Box 309 Mohall, ND 58761

Donna Bauer
Oil & Gas Division

On this <u>23rd</u> day of <u>December, 2002</u>, before me personally appeared <u>Donna Bauer</u> to me known as the person described in and who executed the foregoing instrument and acknowledged that she executed the same as her free act and deed.

Notary Public

State of ND, County of Burleigh My Commission expires <u>11-03-2004</u>

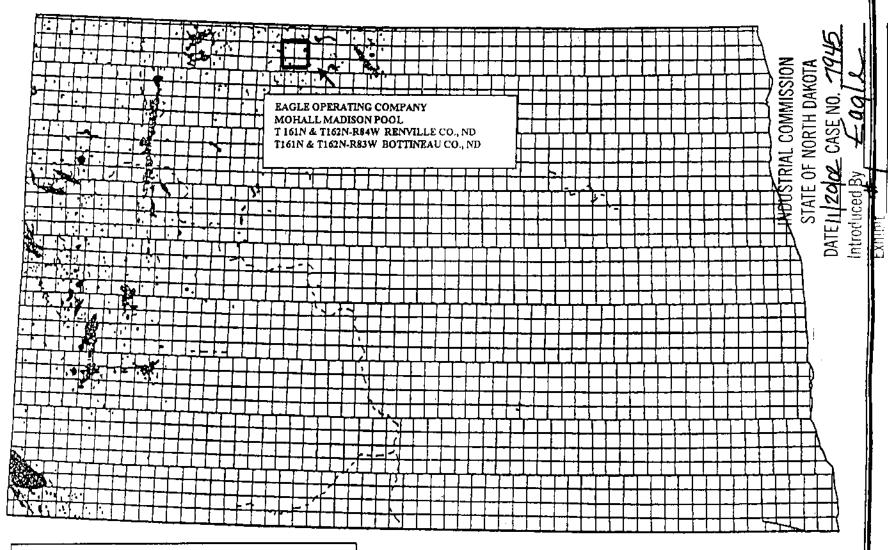
EAGLE OPERATING, INC.

Area Permit for Underground Injection

MOHALL-MADISON UNIT RENVILLE COUNTY, NORTH DAKOTA

November 20, 2002

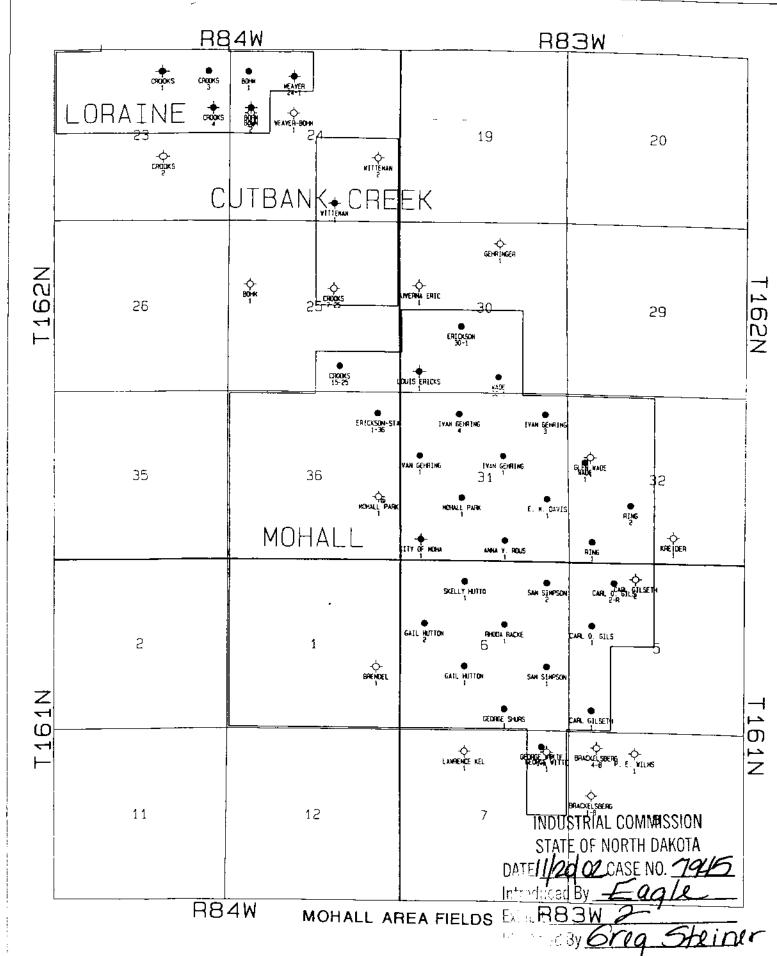
Case No. 7945



EAGLE OPERATING COMPANY ORIENTATION MAP

EXHIBIT #1

OIL and GAS PRODUCTION
OF
NORTH DAKOTA



OIL WELL LOCATIONS WITH WELL NAME AND NUMBER PREPARED BY N.D.I.C. DIL & GAS DIVISION SCALE: 1 INCH = 3000 FEET

EXHIBIT #2

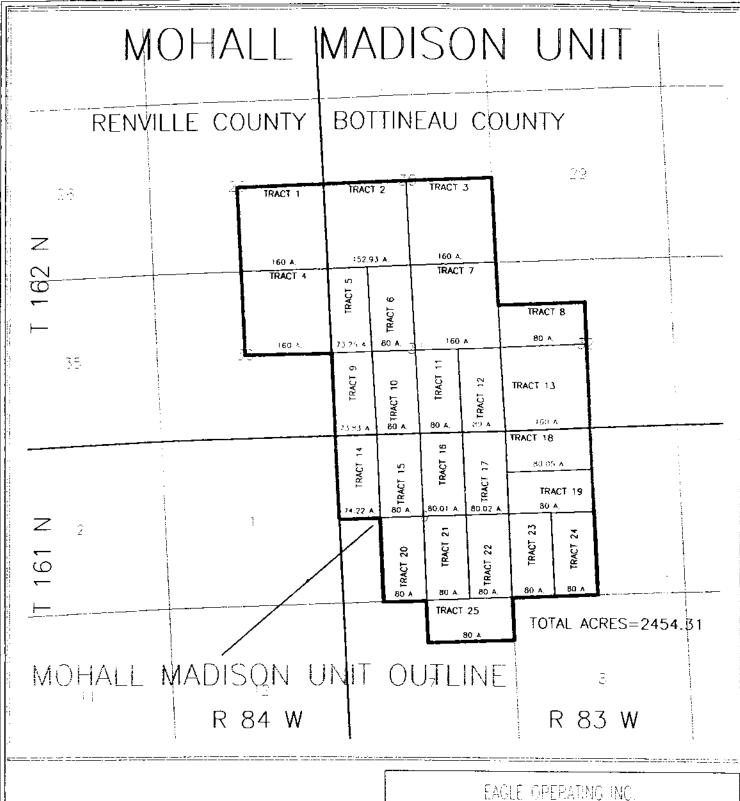




EXHIBIT #3

INDUSTRIAL COMMISSION

BOTTINEAU STATE PEENORTH PAKOTA DALDTA

PROATE (1)20102 CASE NO. 1945

Introduced By

ldentified By

EAGLE OPERATING, INC. MOHALL MADISON UNIT AREA INJECTION

Eagle Operating, Inc. P.O. Box 853 Kenmare, North Dakota 58746 is the operator of all wells in the Mohall Madison Unit. Eagle Operating, Inc. will also be the operator of all proposed injection wells in the Mohall Madison Unit.

PROPOSED INJECTION INTERVAL AND CONFINING ZONES:

The injection interval type section will be the Mohall zone of the Mission Canyon Formation at a depth of 4334' to 4382' in the Monsanto Oil Company #2 Ring well, located in the NESW of Section 32, T162N-R83W, Bottineau County. The interval consists of porous and permeable limestones and dolomites which grade from fine crystalline to sucrosic to pinpoint vugular to vugular. The grains grade from algal to oolitic to pisolitic.

THE OVERLYING CONFINING ZONE:

The overlying confining zone is the Sherwood anhydrite (4303'-4334') of the Mission Canyon Formation. It consists of a massive anhydrite.

THE UNDERLING CONFINING ZONE:

The underlying confining zone is the K-2 marker interval of the Mission Canyon Formation (4382'-4388'). This zone consists of impermeable limestones, dolomites and anhydrites.

FRACTURE PRESSURE:

The fracture pressure of the top confining zone is estimated at 3100 PSI. Data available on scout cards and completion reports was insufficient to calculate a frac gradient. A regional frac gradient of .72 PSI/Ft was used to determine fracture pressures.

INJECTION RATES AND PRESSURES:

The estimated average injection rate is 500 BPD at an estimated average injection pressure of 500 PSI. The estimated maximum injection rate is 3000 BPD at an estimated maximum injection pressure of 1200 PSI.

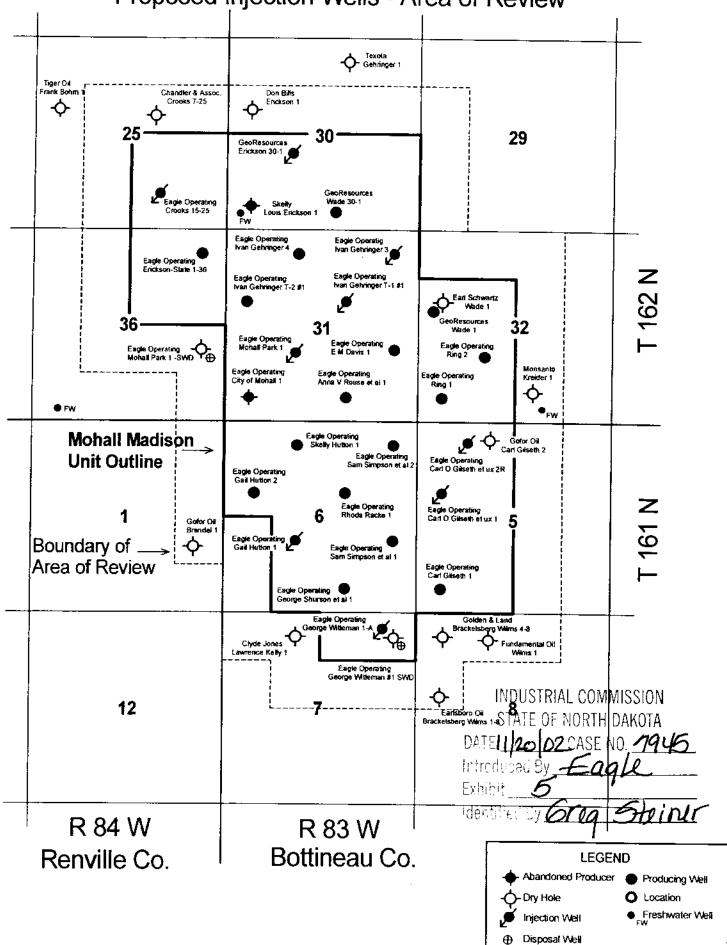
DEPTH TO BASE OF FRESHWATER ZONE:

The base of the Fox Hills Formation at a depth of 575' is the lowermost underground source of drinking water in the proposed Mohall Madison Unit injection area.

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA

DATE LIPO 02 CASE NO. 7945
Introduced By Engle
Extract 4
icarros By Greg Steiner

Eagle Operating Inc. - Mohall Madison Unit - Spot Map Proposed Injection Wells - Area of Review



FORM 6

No Dakota State Industrial Common oil and Gas Division

y how O

WELL COMPLETION REPORT

OPERAT	OR Gofor O	I Inc.,	FIELD.	Nohall	_	
STREET	P. J. E.	X 295		Mission C	anyon	
CITY	MINIOR		emame Couth Dak	ot a	Zamninaa	1
LEASE :	NAME George	<u>Mitteman</u>	WELL N	01	ACRES IN TRIT	90
LOCATI	ON HE OF VELV	Section SEC.	7 TWP 181	RGE 33 EL	EVATION 1615	(DF 50 KB.)
PERMIT	No4192	ELECTRIC OR	OTHER LOGS RUN?	Gamma_Ray Meu	tron 11/7	n 65
NUMBER	R OF CRUDE OF	IL PRODUCING WE	LLS ON THIS LEASE,	INCLUDING TH	IS WELL 1	
			DATA ON TEST			
DATE T	EST COMMENC	ED 11/22/65 to	HOUR 8 AM. DATE T		- 11/05/22	2 /
LENGTH	OF TEST	25	HOURS .	EST COMPLETE	D == / 23/5019	HOUR B E M.
		-			 	MINUTES.
)WING WELL: G PRESSURE O	N CSC	FOR PUN LBS:/SQ. IN: LENG	IPING WELL:		
FLOWING	G PRESSURE O	N TBG	LBS./SQ. IN. NUMI	TH OF STROKE	45"	INCHES
SIZE TB	G	_IN	WOR	CING RAPPETS	1 1/00	
		TYPE CHOKE	(POS.ADJ.)			(SIZE IN)
SHUT IN	PRESSURE		SIZE TBO	;	IN. NO. FT	RID
WAS TH	IS WELL FLOW	VED FOR THE ENI	TRE DURATION OF T	HIS TEST WITH	OUT THE USE C	F SWAB OR
OTHER .	ARTIFICIAL DE	vice:				
					·	
			IL PER 24 HRS.)			
GAS	-OIL RATIO- OF	THIS WELL IS	TSTE	(CU. FT. O)	FGAS PER BRI	OF OR)
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!			-			
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IF SHOT:	DATE		—– NO OTS	USED	scta	
IF PERFO	RATED: NO. HO	OLES PER FT.	NO. QTS.	ED: NO. GALS	usen 150	
GEOLOGI	CAL FORMATION	ON SHOT, PERFOR	ATED OR TREATED	ission FF	OM 4453 FT. T	O 4454 PT
SHOOTING	G. PERFORATIN	NG OR TREATING C	OMPANY Wirelin	<u> </u>		
DATE WE	LL COMPLETE	D_T1/8/00		LL COMPLETED	8 ALL	M.
TOP OF E		ne on Ruse - "	FT. To swab tests take	_		
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		PLUG BACK DE	PTH		:	
				r	.i. 	
WAS THIS	WELL CORE	o No	WHAT INT	EDUATO		
GIVE DRII	L STEM TEST	DATA ON REVERSE	SIDE OF THIS FORM	Ada Taka	-)	
			CASING RECORD	(tione take	-+/	
Size	Put in Well	Left in Well	No. Sacks ¹ Size	D	<u> </u>	
	Ft. In.	Ft. In.	Cement	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
8 5/9"	375	375	275 i	-		
4 1/2"	<u>5+37</u>	4497	250			
						
EXECUTED	THIS 23rd	DAY OF ROVERD	er <u>19 56</u> .	SOFOR OIL,	INC.	
				(Corpora	my or Operator)	
STATE OF	<u>iorth Zekota</u>	<u> </u> _{\ss}	ALLA	n. O dur	- 2re	sidest
COUNTY O	F.Ward		(Sig	nature) 🗡) criti	.e)
Before me	the undersigned	authority, on this d	ay personally appeared.	Vern C	<u>Lund</u>	nown to me
to be the p	erson whose nan	ne is subscribed to ri	he above instrument ad	to being by A	uly sworn on oath	states that
ue is autuor	rized to make thi	s report and has kno	wledge of the facts state	d herein and than	INTESTRIAL C	OMMISSION
Subscribed	and sworn to be	efore me this the $\frac{2}{1}$	3rd day of Core	ber 1	TOUGHE O	STIL DAWNTA
				mi 6	HALL ULABU	CIH DANUIA
My Commis	ssion evnires O	ctober 16, 1989	Jan. 88-2	TATE!	DOMOCA	SE NO. 1946
commit			Notary Publi	can and Tor <u>'''∃∎</u> a	1	-0010
				100	nced RA	-uyu-
					#10	

4180

70 BBL

IC:

Date: 10/9/2001 Time: 11:09 AM

MISSION CANYON /ANHY/ PORO/

1-A WITTEMAN

State: NORTH DAKOTA

County: BOTTINEAU

Operator: GOFOR OIL CO INC 33009009550000 API:

D

Initial Class:

Target Objective: Final Well Class:

DO

Status: OIL

Field: MOHALL

Permit: 4192 on SEP 15, 1972

Abandonment Date: Projected TD: 4600

Hole Direction:

Formation: MADISON

IP Summary: Oil Gas Water Top Form

15 BPD

Location

Section, Twp., Range: 7 161 N 83 W

> Spot Code: NE NE

Footage NS, EW: 500 FNL 820 FEL **CONGRESS SECTION**

Surface remark:

Principal Meridian: 5TH PRINCIPAL MRD

> Lat/Long: 48.7908700 / -101.4779000 US

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface:

TVD:

Dates and Depths

Spud: OCT 25, 1966 Spud Date Code:

TD: 4497 on

LTD:

PlugBack Depth: 4465

Completed: NOV 22, 1966 Formation @ TD:

352MSNC Name: MISSION CANYON /ANHY/ PORO/

Ref. Elevation: 1615 KB KB. Elevation: 1615

Ground Elevation: 1605 GR

HARRELL & HARRELL Contractor:

Rig Release Date: Rig #

IP# 001

Top Formation: MISSION CANYON /ANHY/ PORO/ Base Formation: MISSION CANYON /ANHY/ PORO/

Oil: 15 BPD

Condst: Gas:

Water: 70 BBL Interval: 4453 - 4454 Method: PUMPING

Duration of Test: Hours Choke: Oil: Gravity: 28 GOR:

Prod Method: PERF

Perforations: Interval Cnt Type Shots/Ft Top Formation

4453 -4454 **JET** 4 FT 352MSNC MISSION CANYON /ANHY/ POR(

Treatments: l Interval: 4453 - 4454

4180

Date: 10/9/2001

Fluid:

ACID

Time: 11:09 AM

Additive:

Prop Agent:

Formation Break Down Pressure:

Average Injection Rate: Stages: Remarks:

PD # 001

Top Formation: Base Formation: MISSION CANYON /ANHY/ PORO/

MISSION CANYON /ANHY/ PORO/

Oil: 10 BPD Gas:

Condst:

Interval: 4453 - 4454

Water: 70 **BBL** Method: PUMPING

Type: A

Duration of Test: Hours Oil:

Choke: GOR:

Gravity: Prod Method: PERF

Perforations: 352MSNC

MISSION CANYON /ANHY/ PORO/

Perf Interval: 4453 - 4454

Shots/Ft: 4 **JET**

Type of Perfs:

Interval Perf Count:

PD# 002

Top Formation: Base Formation:

MISSION CANYON /ANHY/ PORO/ MISSION CANYON /ANHY/ PORO/

Oil: Gas:

Condst: Water:

Interval: 4453 - 4454

Method: UNDESIGNATED

Duration of Test: Hours Oil:

Gravity:

Choke: GOR:

Prod Method: PERF

100

Perforations: 352MSNC

MISSION CANYON /ANHY/ PORO/

Perf Interval: 4453 - 4454

Shots/Ft: 4

Type of Perfs:

JET Interval Perf Count:

Treatments:

Interval: Fluid:

4453 - 4454

150 GAL

ACID Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate: Stages: Remarks:

Casing, Liner, Tubing

Casing 8 5/8 IN @ 375 w/ 275 sx Casing 4 1/2 IN @ 4497 w/ 250 sx

Formations and Logs

Log # 1 NE (a)

Dwights Energydata Narrative

Accumulated through 1997

Madison: P 15 BOPD 28.0 Grav, 60 BWPD

Perfs: 4453-4454 (Madison

/4; A/150 gals; P/15 BOPD, 80% wtr, grav 28; Perfs: Dst:

None Cores: None

Dwights number: R8071800

Operator Address

Date: 10/9/2001 Time: 11:09 AM

1 GEORGE WITTEMAN

#3781

State:

NORTH DAKOTA BOTTINEAU

County: Operator:

KIDD BARRON

API:

33009008590000

D

IC:

Initial Class:

Target Objective:

Final Well Class:

Status:

Field:

Permit:

3793

D&A

MOHALL

D

on SEP 15, 1972

Projected TD:

4600

Abandonment Date:

Hole Direction:

Formation: MADISON

Location

Section, Twp., Range:

161 N 83 W

Spot Code:

NE NE

Footage NS, EW:

660 FNL

660 FEL

CONGRESS SECTION

Surface remark:

Principal Meridian:

5TH PRINCIPAL MRD

Lat/Long:

48.7904400 / -101.4772400

US

PBHL:

PHBL remark:

ABHL:

ABHL:

ABHL remark:

From Surface:

TVD:

Dates and Depths

Spud:

DEC 21, 1964

4500 on

Spud Date Code:

TD:

LTD: 4502

PlugBack Depth:

Completed:

DEC 29, 1964

Formation @ TD:

Name:

Ref. Elevation:

1617 KB 1617

KB. Elevation:

Ground Elevation:

1609 GR

Contractor:

CARDINAL DRILLING

Rig Release Date:

Rig#

Casing, Liner, Tubing

Casing

8 5/8 IN @

390 w/ 250 sx

Formations and Logs

ΪL

@

Log # 1 Log # 2 ΑV

Dwights Energydata Narrative

Accumulated through 1997

Dst:

None

Cores:

None

Dwights number:

R8067810

Operator Address

Street or PO Box:

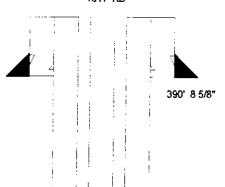
Industrial Commission of the State of North Dakota

3793

FORM 4	Refer to Permit No. 4102 A
SUNDRY NOTICES A	IND REPORTS ON WELLS #378/
1. Notice of Intention to Drill or Redrill	7. Report of Casing
2. Notice of Intention to Change Plans	8. Report of Redrilling or Repair
3. Notice of Intention to Pull Casing	9. Supplementary History
4. Notice of Intention to Abandon Well	10. Well Potential Test
5. Report of Water Shut-Off	11 Change of Operator X
6. Report of Shooting or Acidizing	12 Completion of Salt water disposal X
Elndicate nature of notice by	proper check mark in space above!
NAME OF LEASE George Witteman	Date <u>December 17 19 _75</u>
	N) ## line and 660 ft. from the (E) MMX line of
	1N Range 83W in Bottingan Count
· ·	
Pietd Nacisch Foot. The et	evation of theisfeet above sea level
Name and Address of Contractor, or Company wh	·
(DETAI	LS OF WORK)
	sizes, weight, and lengths of proposed casing, indicate mud weights
- - -	d all other details of work).
Finished drilling July 14, 1968 to c,086' saturated cement, had circulation.	. Ran 4 1/2" casing, comented with 50 bags sa
Wire Line logged top of Dakota 2,848'. Pe	erforated 2,866 ' to 76 with Jts., acidized wi
60 bbl. acid. Ran 95 Jts. plastic tubing	to 2,849.16' of 2 3/8" tubing.
4 constant	
Company GOFOR OIL INC.	Do not write in this space
Address P. O. Box 853, Kenmare, ND 58746	Approved FEB 5 1976
and faith the sol	75/1/1 Minn
Dy	
Title President	Title

George Witteman #1 SWD NE NE 7-161N-83W Well File # 3781

1617' KB



spud 12-21-64 dry hole 12-29-64 re-entered 7-11-68 to complete as SWD status - SWD

> Log Tops Greenhorn 2275' Dakota 2810'

Tubing string 2849' 2 3/8" plastic coated tubing

Drilled 6 3/4" hole TD 3036' Ran 4 1/2" casing cemented with 50 sacks.

Original hole TD 4502' plugged 12-29-64 5 sacks cement at surface 15 sacks cement at 390' - base surface 15 sacks cement at 2810' - Dakota 15 sacks cement at 3975' - Spearfish 15 sacks cement at 4205' - Charles 25 sacks cement at 4480' - Mission Canyon

North Dakota State Industrial Commission Oil and Gas Division

PLUGGING RECORD

(Within 30 days after the plugging of any well has been accomplished, the owner or operator thereof shall file this form with the State Geologist, setting forth in detail the method used in plugging the well.)
OPERATOR Earlsboro Oil & Gas Co., Inc. FIELD Mohall -
LEASE NAME Bracheleberg-Wilms WELL NO. 1-8 SEC 8 TWP 161N ROE 83W
PERMIT NO. 9697 API NO. 33-009-01564 POOL Mohall-Madison
ELEVATION 1604 (D.F., G.R., K.B.) COUNTY Bottineau
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: Earlsboro Oil & Gas Co., Inc.
STREET P. O. Box 18155 CITY Okla. City STATE OK 73154
DATE WELL WAS PLUGGED October 4 19 82
TOTAL DEPTH 45371
ELECTRIC OR OTHER LOGS RUN! DLL/MSFL, CYB, LDT/CNL
WAS THIS WELL CORED? NO IF SO, GIVE INTERVALS
AL COMMISSION? Yes HOW WAS MUD APPLIED? Circulated WERE PLUGS USED? Yes IF SO SHOW ALL SHOULDERS LEFT FOR CASING, SIZES AND LENGTHS OF CASING, SIZE AND KIND OF PLUGS USED, AND DEPTHS PLACED. ALSO AMOUNT OF CEMENT AND ROCK 8 5/8" casing left in hole. Set 3 415' KB. Set cement plugs as follows: 30 sx 4265'-4565'; 30 sx 3875'-3975'; 30 sx 2750'-2850'; 30 sx 1800'-1900'; 30 sx 365'-465'; 10 sx in top of surface pipe.
WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS? No
EXECUTED THIS 11 DAY OF October 19 82 Earlsboro Oil & Gas Co., Inc.
STATE OF Oklahoma) ss (Signature) Operations Mgr. (Title)
Before me the undersigned authority, on this day personally appeared Ronald W. Atchlev known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.
Subscribed and sworn to before me his the 11 day of October 15 82
My Commission expires September 24, 1985 Notary Public in and for Okla. Co., OK

North Dakota State Industrial Commission Oil and Gas Division

pla

PLUGGING RECORD (Within 30 days after the plugging of any well has been accomplished, the owner or operator thereof shall file this

form with the State Geologist, setting fort	th in detail the me	ethod used in pluggi	ng the well.)	
OPERATOR THE FUNDAMENTAL OIL	CCRPORATION	FIELD W.C.	···	· ·
LEASE NAME WILMS	WELL NO	1SEC8	Twp161X	RGE83W
PERMIT NO. 4225	· ·	POOL	· 	
ELEVATION 1598		(1862FX G.R., K.78.)	COUNTY Bot	tineau
ADDRESS ALL CORRESPONDENCE CO	ONCERNING TH	IS FORM TO: THE	FUNDAMENTAL	OIL CORPORATION
STREET 444-17TH ST., SUITE 728	CTTY Det	nver	STATE	Colo. 80202
DATE WELL WAS PLUGGED	1-27-	19 67	_	
TOTAL DE	PTH 4515		···	
ELECTRIC OR OTHER LOGS RUN?	IES - GRS			
WAS THIS WELL CORED? yes	IF SO, G	IVE INTERVALS_	4417-29	4429+47
AL COMMISSION: yes HOW W. IF SO SHOW ALL SHOULDERS LEFT PLUGS USED. AND DEPTHS PLACED. #1 Plug set at 4400' #2 Plug 4200' #3 Plug 3800' #4 Plug 2800'	FOR CASING, SI ALSO AMOUNT 20 sx. 20 sx. 20 sx.	ZES AND LENGTH	ROCK SING	
#5 Plug 350'	20 sx.	200	10	entiged been on it
WAS NOTICE GIVEN BEFORE PLUGGING GIVE DRILL STEM DATA ON REVERSE	G, TO ALL AVAI SIDE OF THIS	LABLE ADJOINING FORM.	LEASE AND LA	AND OWNERS?
EXECUTED THIS 13th DAY OF FE	19	THE FUND	(Company or O	perator)
STATE OF COLORADO		(Signature)	(Super	Geologist (Title)
COUNTY OF DENVER		,		•
Before me the undersigned authority, on to be the person whose name is subscribed he is authorized to make this report and hi	d to the above in	strument, who being	John Dawson by me duly swo and that said ren	known to me orn on oath states that ort is true and correct.
Subscribed and sworn to before me his	the 13th day	of February	y	.:s <u>67</u>
My Commission expires 1-11-71		Notary Public in and	for Denve	r, Colo.

North Dakota State Industrial Commission Oil and Gas Division

PLUGGING RECORD

(Within 30 days aft	ter the plugging of ar	ny well has been	accomplis	hed, the	owner (or ober	nor Sheffelt Ga	mHiafia +'n'i
term with the State	Georofier setting for	nu in defait fue u	nethod use	d in plugi	ging the	well.)	GEILLS ST	
OPERATOR GLYCI	e W. Jones-Nort	th Star Petro.	_field_		Moh	all	- S. S.	1815
LEASE NAME	Kelly-	well no	1	SEC	7	.TWP		
PERMIT NO	4218		_POOL _		Mad	ison	· · · · · · · · · · · · · · · · · · ·	
ELEVATION	1614*		_\ POP XXX	Ж. к.в.)	COUN	ITY	Bottineau	<u> </u>
ADDRESS ALL CO	ORRESPONDENCE C	ONCERNING T	tis form	το: <u>Νοι</u>	th Sta	r Peti	oleum Com	pany
STREET 460 Nort	hstar Center	crry <u>1</u>	Jinneap	olis	sı	ATE	Minnesota	3
DATE WELL WAS	PLUGGED De	ecember 25		<u> 19 66</u>				
		· · · · · · · · · · · · · · · · · · ·	4= 5 1 4					
	TOTAL DE		4564*			:	.[_	
ELECTRIC OR OTH	ER LOGS RUN?	Laterolog-Ga	mma Ra	v and S	lonic-	Calin	er	
						<u> </u>	<u> </u>	
WAS THIS WELL (CORED? No	F SO, (GIÝE INT	ervāls.	:			
WAS THE UTON by	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1 P. W. C. T. C.						 -
AT COMMERCIANS	Yes How w	ADER FLUID, A	LCORDING	TO REG	ULATI	ons of	F THE STATE	industri.
	SHOULDERS LEFT							
PLUGS USED, AND	DEPTHS PLACED.					<u></u>		
	20 sack cement 20 sack cement			p Mohal p Charle				
	20 sack cemen					-		
	20 sack cement			o Spear				
 				Dakot				
	20 sack cement			se surfa	3 CO C	sing)		
	5 sack cement							
WAS NOTICE GIVEN GIVE DRILL STEM:	i Before Pluggin Data on Reverse	G. TO ALL AVA: SIDE OF THIS	ilable a form.	DJOININ	G LEAS	E AND	LAND OWNE	rs: <u>Yes</u>
EXECUTED THIS 2	7 DAY OF Dec	ember 19	66	G	lyde '	W. To	nes	
			00	- / -			r Operator)	·
STATE OF North I)akota -	//	Eve.	H. A.	aura	C	onsulting G	eologist
COUNTY OF Burlet	gh } ss		(S	ignature)			(Title	
Before me the unders	ugned authority, on t	this day personal	ly appeare	e Stev	en H.	Harr	15 k	
to be the person whose he is authorized to mo	se name is subscribed ake this report and ha	l to the above in is knowledge of t	strument. he facts sta	who being ted hereir	by me	duly s	worn on path	
Subscribed and sworm	to before me his t	the 27th day	of]	<u>Decemb</u>	er		s_ €	
			X	Elen	e o	Ple	د الم	
My Commission expir		· · · · · · · · · · · · · · · · · · ·	Notary Pui	olic in and	for	i - ;		
	MICHELSON		,					

LEVERNE MICHELSON

Notary Public, Burleigh Co., N. Dak.
My Commission Expires Mar. 25, 1971.

4206

IC:

Abandonment Date:

US

Date: 10/9/2001 Time: 11:09 AM

1 LAWRENCE KELLY

State: NORTH DAKOTA

County: **BOTTINEAU**

JONES CLYDE W Operator:

API: 33009009650000

D

Initial Class:

Target Objective:

Final Well Class: D

> Status: D&A Field: **MOHALL**

Permit:

on SEP 15, 1972

Projected TD: Hole Direction:

Location

Section, Twp., Range: 161 N 83 W

4600

Spot Code: **NE NW**

Footage NS, EW: 660 FNL 1980 FWL CONGRESS SECTION

Formation: MADISON

Surface remark:

Principal Meridian: 5TH PRINCIPAL MRD

> Lat/Long: 48.7904500 / -101.4879300

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface: TVD:

Dates and Depths

Spud: DEC 16, 1966 Spud Date Code:

TD: 4564 on

LTD:

PlugBack Depth:

Completed: DEC 25, 1966

Formation @ TD: Name: MISSION CANYON /ANHY/ PORO/ 352MSNC

Ref. Elevation: 1614 KB KB. Elevation: 1614 Ground Elevation: 1604 GR Contractor: **CHANDLER**

Rig Release Date: Rig#

DST # 001

Show: Formation: MADISON

Interval: 4425 - 4465 BHT Choke: Top: Bottom:

Recovery: 1 240 FT **MCXW** Rec Method: PIPE Recovery: 2 1875 FT **BZW** Rec Method: PIPE

Pressures and Times:

Hydro Init Flow Final Flow Shut-in Open Time Shut-in Time Init Final Init **Final** Init Final Init Final Init Final [] Init Final 2457 2418 112 1053 1926 120 60

Dst Test Remark: REC 1875 FT BLK SUL SWTR

Casing, Liner, Tubing

Casing 8 5/8 IN @ 366 w/ 230 sx

#4206

Date: 10/9/2001 Time: 11:09 AM

Drilling Journal

Participating Interests 3OPRS-CLYDE W JONES & NORTH STAR PETROLEUM,

Formations and Logs

Log # 1 EL @ -Log # 2 AV @ -

Log# 2 Base Source Lith-Age Base Measured Top Top Formation TVD ology code TVD Depth Depth 603 LOG 2295 **GREENHORN** 2827 LOG 602 DAKOTA LOG 552 3682 PIPER /LM/ SD/ SH/ 469 LOG 3971 **SPEARFISH** 353 LOG 4222 CHARLES /SALT/ 353 LOG 4270 MIDALE /ANHY/ LOG 352 4346 STATE A LOG 352 4450 MISSION CANYON /ANHY/ PO

Dwights Energydata Narrative

Accumulated through 1997

Dst: #1 4425-4465

Dst: , SI/1 hr, op 2 hrs, SI/1 hr, rec 240' MC sul SW, 1875' blk sul SW, FP

Dst: 112-1053#, SIP 1926#, HP 2457-2418#

Cores: None

Dwights number: R8072060

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

E-Mail:

Agent Name:

Agent Remark:

Fax:

Agent Code:

2003 G

FORM 7

North Dakota State Industrial Commission
Oil and Gas Division

900 EAST GOULEVARD - BISMARCK, NORTH DAKOTA - 58505

PLUGGING RECORD

P. O. Box 1853

45676. Wall File No.

				F. V		
			ADDRESS:	Bismarck,	ND 58502	
NAME OF OPERATOR:	Golden & Land C	11 Company		COUNT	Y:Botti	пеац
WELL NAME AND NO.:Bra	kelsberg-Wilms	#4-8 FIELD:	Twp.,	1619	Rge.	83W
LOCATION OF WELL: Qtr	<u>NW-NW</u>	Sec.,8	Twp., _	1016	feet and from	(W) section
LOCATION OF WELLS during	500	feet from (N) XXX secti	ion line and	820		
Well is		1 5 V ·	1612	TODOX RESULT KR)	
TOTAL DEPTH:N	4450	IN DE FLECT	FRIC OR UTHER	LOGS RUN: _	Gamma-Ray	Neutron_
DATE PLUGGED:N	ovember 25	, 19 <u>B5</u>				
W	e 15 84 Dauri					
		4418-445	<u>U</u>)ha (azl		
IF WELL WAS CORED, MIL	AND LADEN FLUI	D, MUD WEIGHT:	10.4	1bs./gzl.		
IF WELL WAS CORED, INTO		PI LIGGING: JQE	Johnson			
NAME OF FIELD INSPECT	R PRESENT DURIN					

WELL RECORD

						CEMENT			
	CA		PLU		NO.	INTERVAL			
	DEPTH	WEIGHT NO./FT.	AMOUNT PULLED	TYPE	DEPTH	SACKS	INTERVAL		
SIZE	<u>SET</u>	24	None						
8_5/8"		 +	2395	Cast Iron	4303	5	4303-4200		
4 1/2"	4449	10.5		Bridge Pl	<u> </u>	35	2395-2295		
							100		
		 				50	498-400		
				} — — —	 	10	Surface		
		- }				<u> </u>			
		- <u>-</u>		- 	 	<u> </u>			
			-	<u> </u>	<u></u>		<u> </u>		
					•	•			

_	
REMARI	KS: Cut off 8 5/8" casing below plow depth & welded steel cap on.
	GEOLOGIC MARKERS Measured Depth Of Formation Vertical Depth
	Name
	SEE ATTACHED GEOLOGICAL REPORT

North Dakota State Industrial Commission Oil and Gas Division

PLUGGING RECORD

(Within 30 days after the plugging of any well has been accomplished, the owner or operator thereof collable this form with the State Geologist, setting forth in detail the method used in plugging the well.) OPERATOR GOFOR OIL INC. FIELD Mohall Field
ME I(h)
LEASE NAME Gilsetn WELL NO. 2 SEC. 5 TWP. 161 RGE 83
PERMIT NO. 420/ POOL Madison Pool
ELEVATION 1589 AXXXXXX K.B.) COUNTY Bottingau
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: GOFOR OIL INC.
STREET Box 853 CITY Kenmare STATE North Dakota
DATE WELL WAS PLUGGED November 3 19 77
TOTAL DEPTH 4473
ELECTRIC OR OTHER LOGS RUN? Sonic Log - Gamma Ray
WAS THIS WELL CORED! IF SO, GIVE INTERVALS
WAS THE WELL FILLED WITH MUD LADEN FLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRI-
AL COMMISSION? HOW WAS MUD APPLIED? WERE PLUGS USED?
OF SO SHOW ALL SHOULDERS LEFT FOR CASING, SIZES AND LENGTHS OF CASING, SIZE AND KIND OF
PLUGS USED, AND DEFTHS PLACED, ALSO AMOUNT OF CEMENT AND ROCK
Pumped 30 bags cement to bottom with tubing in hole over perfs. Shot 4 1/2" casing off at 1955', pulled all out of hole, went in with thbing 186' inside of casing.
Halliburton pumped 33 bags cement to 1900 *, pulledtubing up 52 Jts. to 480*, pumped 37 bags, put 10 bags 10* from surface about 5* below surface.
WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS?
GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM.
ENECUTED THIS 17 DAY OF November 19 77 GOFOR OIL INC.
O (Company or Operator)
STATE OF North Dakota Signature Cignature Cignat
COUNTY OF Ward
Before me the undersigned authority, on this day personally appeared Earl Schwartz known to me
to be the person whose name is subscribed to the above instrument, who being by me duly sworn on eath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.
Subscribed and sworn to before me his the 17 day of November 19 77
HORRY PARTY MAN COMMENT ME
My Commission expires. My Commission See 11. 111. Notary Public in and for.

4189

Industrial Commission

NOV 190 OF HER SIDE

966 E

FORM 4

SUNDRY NOTICES AND REPORTS ON WELLS

1. Notice of Intention to Drill of Belliff	7. Report of Casing
2. Notice of Intention to Change Plans	8. Report of Redrilling or Repair
3. Notice of Intention to Pull Casing	9. Supplementary History
4. Notice of Intention to Abandon Well	10. Well Potential Test
5. Report of Water Shut-Off	
6. Report of Shooting or Acidizing	12.
Undicate nature of notice by	/ proper check mark in space above)
·	
NAME OF LEASE Carl Gilseth	Date Movember 4, 1985 19
MELL NO. 2 is translated \$200. At from (1	N) 開始 line and 1383 ft. from the 能能的(W) line of
ection Section 5 Township 151	Range 33 in Bottineau County
ELSSADE Vofall Field Ent. Common Peal The al	levation of the <u>sits</u> is <u>1379</u> feet above sea level.
Fleid Otto 1001. The ell	12 12 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
lame and Address of Contractor, or Company wh	nich will do work is:
	Willaston, Month Dakota
(DETAIL	LS OF WORK
	v sizes, weight, and lengths of proposed casing, indicate mud weights,
	nd all other details of work).
Will set approximately 875' of 8 5/8	Stas inch Surface Sasing
	·
Will drill well approximately 4500:	
	<u>.</u> 4 -
empany GOFOR OIL INC.	Do not write in this space a
Box 298	-
Addressinot,_liorth/takota //	Approved Variante 1 19 66
alera O Luna	IN WILL PX VEVO and L
Terrer graves	- December of the state of the
itle President	_ Title

Date: 10/9/2001 Time: 11:05 AM

2 GILSETH

State: NORTH DAKOTA

County: BOTTINEAU

Operator: GOFOR OIL CO INC

API: 33009009590000 IC:

Abandonment Date:

Initial Class: D

Target Objective:

Final Well Class: D

Status: D&A Field: MOHALL

Permit: on SEP 15, 1972

#4189 on SEP 13, 1972

Projected TD: 4500 Formation: MADISON

Hole Direction:

Location

Section, Twp., Range: 5 161 N 83 W

Spot Code: NE NW

Footage NS, EW: 500 FNL 1980 FWL CONGRESS SECTION

Surface remark:

Principal Meridian: 5TH PRINCIPAL MRD

Lat/Long: 48.8052500 / -101.4663100 US

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface: TVD:

Dates and Depths

Spud: NOV 06, 1966 Spud Date Code:

TD: 4423 on LTD: 4423

PlugBack Depth:

Completed: JAN 01, 1967

Formation @ TD: 352MSNC Name: MISSION CANYON /ANHY/ PORO/

Ref. Elevation: 1589 KB KB. Elevation: 1589 Ground Elevation: 1579 GR

Contractor: HARRELL & HARRELL

Rig Release Date: Rig #

PD # 001

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/

Oil: 0 BBL Condst:

Gas: Water:

Interval: 4387 - 4391 Method: SWABBING

Duration of Test: Hours Choke:
Oil: Gravity: GOR:

Oil: Gravity:
Prod Method: PERF

Perforations: 352MSNC MISSION CANYON /ANHY/ PORO/

Perf Interval: 4387 - 4391 Shots/Ft: 4

Type of Perfs: JET Interval Perf Count:

Treatments: 100 Interval: 4387 - 4391

Treatments: 100 Interval: 4387 - 4391
Fluid: 250 GAL ACID Type: A

4189

10/9/2001 Date: Time: 11:05 AM

Additive:

Prop Agent: Formation Break Down Pressure:

Average Injection Rate: 1

Stages:

Remarks: @ 2600

Treatments:

101 Interval: 4387 - 4391

Fluid:

1000 GAL

ACID Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate: 2

Stages:

Remarks: @ 2600

Casing, Liner, Tubing

Casing Casing 8 5/8 IN @

360 w/ 275 sx

4 1/2 IN @ 150 sx 4421 w/

Formations and Logs

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age code
MIDALE /ANHY/	4193				LOG		353
STATE A	4272				LOG		352
MISSION CANYON /ANHY/ PO	4356				LOG		352

Dwights Energydata Narrative

Accumulated through 1997

Perfs:

4387-4391

Perfs:

Acidized;

Dst:

None

Cores:

None

Dwights number:

R8071890

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

E-Mail:

Agent Name: Agent Remark: Fax:

Agent Code:

FORM 6

North Dakota State Industrial Commission Oil and Gas Division

WELL COMPLETION REPORT # 6206

16	~(2345€) ★	13
SENSON I	MAY 1978 ECEIVE	اعد آھ آھ
12	N. Dak. Geologics	1
18	200055 T	

		INSTRUCTIONS OF			W1255
OPERATOR Earl Schwar	tz Co.	FIELD_	Mohall		
STREET		POOL	Madison		
CITY Kenmare		STATE North Da	kotac	COUNTY Bott	ineau
(FASE NAME Carl Gilse		well			
LOCATION N/2 HW/4	SEC	5 TWP 161	KGE 83	ELEVATION 1	562 **** or KB.) 573 Ground
PERMIT NO. 6206	ELECTRIC CR (OTHER LOGS RUN	Cement Box	d Log 9	/9
NUMBER OF CRUDE OIL PI	RODUCING WELL	LS ON THIS LEASE	INCLUDING	THIS WELL_	2
DATE TEST COMMENCED.	3/1178	DATA ON TEST HOURM DATE	15 davs.	45 bbls. oi.	l has a lot of wate
LENGTH OF TEST		HOURS			MANUTES.
Leak will have to squi FOR FLOWING WELL:	eze.	FOR P	MPING WELL	L:	
FLOWING PRESSURE ON C	sg None	LBS./SQ. IN. LEX	GTH OF STR	OKE 42	INCHES
FLOWING PRESSURE ON T	Ro None	LBS. SQ IN. NU	MBER OF STR	OKES PER MIN	UTE 7
SIZE TBG 2 3/8 IN		wo	PKING BAPE	ELS 1 1/4	SIZE IN.
			AMING DAM		10100 1111
	YPE CHOKE				. DT 373. #272
SHUT IN PRESSURE		S:ZE T			
WAS THIS WELL FLOWED		RE DURATION OF	THIS TEST	WITHOUT THE	USE OF SWAB OR
OTHER ARTIFICIAL DEVICE	Ī:				
RESULT OF THIS TEST	r (BBLS, NET O	n per 24 hrs.: _			
GAS-OIL RATIO OF TI					BBL. OF OIL)
PERCENT WATER PRO			98%		
GRAVITY OF OIL PRO			DECTED TO	EAS A DITY	26
GRAVITY OF OIL PRO	DOCED DERING	FIRIS 1251 (COF	RECIED TO	QQ A.F.L)	· .
GEOLOGICAL FORMATION SHOOTING, PERFORATING DATE WELL COMPLETED_ TOP OF PAY 43721 to	OR TREATING O	OMPANY G	<u>Wireline</u> WELL COMPL	ETED.	м.
		45	bls. oil .	Shut in. Will	squeeze
	TOTAL DEPTH (of well	¥50	FT.	
		PTH 4	¥35	FT.	
 -					
WAS THIS WELL COREDIL		WHAT		43721 - 441	11.
GIVE DRILL STEM TEST DA	TA ON REVERSE	E SIDE OF THIS FO	RM.		
	•	CASING RECOR			
The state of the s	Left in Weli	No. Sacks Size	Put in	Wall Laft is	r. Well No. Sacks
Size Put in Well Ft. In.	Ft. In.	Cement	Ft.	In. Ft.	In. Cement
48/2-11.6# 4450 ^t	\$450°	340 sks. 8 5	6 4641	4641	285 sks.
EXECUTED THIS 2 DA	Y OF May	197.9		Schwartz Co.	
		.2	111	(Company or Ope	rator)
STATE OF North Dakota	•	To do	White		Operator
	- - \ 48	/	(Signature)		(Title)
30c	- ·		Fant	Schwartz	
Before me the undersigned a			1rec		known to me
to be the person whose name he is authorized to make this	is subscribed to report and has ke	the above instrumer nowledge of the facts	t, who being it stated herein a	by me duly swom and that said repor	t on oath states that it is true and correct.
			V		. 75
Subscribed and sworn to bef	are me this the	day of			4 <u>/8</u> ,
		20	mara.	m Ola	y ac
	Person is dealer				

Date: 10/9/2001 Time: 11:05 AM

2R CARL GILSETH

NORTH DAKOTA State:

County: BOTTINEAU

SCHWARTZ EARL Operator:

IC: 33009012380000 API:

Initial Class: D

Target Objective: Final Well Class: DO

OIL Status:

Field: **MOHALL**

Permit: 6206 on DEC 15, 1977

Abandonment Date:

4500 Formation: MADISON Projected TD:

Hole Direction:

Water Top Form IP Summary: Oil Gas MADISON

3 BPD

Location

83 W Section, Twp., Range: 161 N

Spot Code: NW NE NW

1326 FWL CONGRESS SECTION Footage NS, EW: 627 FNL

Surface remark:

Principal Meridian: 5TH PRINCIPAL MRD

> US 48.8048900 / -101.4690200 Lat/Long:

PBHL:

PHBL remark:

ABHL:

ABHL remark:

TVD: From Surface: ABHL:

Dates and Depths

JUN 29, 1977 Spud Date Code: Spud:

TD: 4450 on

LTD:

PlugBack Depth: 4435

Completed: NOV 05, 1977

Name: MADISON 359MDSN Formation @ TD:

Ref. Elevation:

KB. Elevation:

1573 GR Ground Elevation:

> CARDINAL DRILLING Contractor:

Rig# Rig Release Date:

IP# 001

MADISON Top Formation: MADISON Base Formation:

Condst: Oil: 3 BPD

Water: Gas:

Method: PUMPING Interval: 4377 - 4411 Choke: Duration of Test: Hours

GOR: 26 Oil: Gravity:

Prod Method: PERF

Shots/Ft Top Formation Perforations: Interval Cnt Type

4377 -4411 359MDSN MADISON

4377 - 4411 ı Interval: Treatments:

Date: 10/9/2001 Time: 11:05 AM

Fluid:

1300 GAL

ACID

Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate:

Stages:

Remarks:

Core Id: 001

Formation:

359MDSN **MADISON**

Interval:

4372 - 4373

Rec: 14 FT

Core Type:

Show Type: CONV

Description:

2 TLS, XLN, V ANHY, FG

1 TLS, XLN, FG

1 TLS, XLN, ANHY, FG

1 TLS, XLN, FG

1 TLS, XLN, ANHY, FG

2 TLS, XLN, FG

1 TLS, SUC, FG

5 TLS, ALGAL, VUGGY

Core Id:	001											
Core Analysis: 1 Primary		ry Sampi	Sample: WC		Date: JUL 01, 1977		77	Lab: 007465		Location: DLS		
Sample	Analysis	Top	Base	HP erm	VPerm	Poro-	Bulk		_Saturation_		Pore	Vol
_						sity	Density	Oil	Water	Gas	Oil	Water
1	1	4372	4373	0.77		16.4					9.6	57.5
2	1	4373	4374	0.68		17.5					10.1	56.1
3	I	4374	4375	0.06		5.5					13.1	52.5
4	I	4375	4376	0.01		3.6					5.9	77.1
5	1	4376	4377	0.4		7.1					10	48.4
6	1	4377	4378	0.93		5.7					16.4	43.6
7	1	4378	4379	21		18.1					26.1	38.1
8	I	4384	4385	37		31					13.6	52.7
9	1	4385	4386	22		25.3					19.4	48.1
10	1	4404	4405	62		13.6					14.8	36.8
11	1	4405	4406	20		12.8					9	37.5
12	1	4408	4409	25		11.8					14.9	38
13	1	4409	4410	108		16.2					14.9	46.5
14	1	4410	4411	62		17.7					14.7	33.6

Casing, Liner, Tubing

8 5/8 IN @ 464 w/ 285 sx Casing Casing 4 1/2 IN @ 4450 w/ 340 sx

4378 TUBING Tubing 2 3/8 IN (a)

Dwights Energydata Narrative

Accumulated through 1997

Madison: P 3 BOPD 26.0 Grav, 147 BWPD GOR 100:1 IP:

Perfs: 4377-4411 (Madison

w/4 SPF acid w/1000 gals Hyd 15% 300 MCA Perfs:

Cores: 4372-4411

R8092060 Dwights number:

Operator Address

Street or PO Box:

City:

No. Dakota State Industrial Commiscon Oil and Gas Division

WELL COMPLETION REPORT

STREET F. 0. 30X 296 STREET F. 0. 30X 296 POOL BISSTON CANYON CITY MINCES STATEMORTH DAKOTA COUNTY BOTTINGAU LEASE NAME CAR. GIASTH LEASE NAME CAR. GIASTH LOCATION SW CT SW/H SEC 5 TWP 101 RGE 93 ELEVATION 1609 STATEM KB.) ACRES IN UNITSO LOCATION SW CT SW/H SEC 5 TWP 101 RGE 93 ELEVATION 1609 STATEM KB.) ACRES IN UNITSO LOCATION SW CT SW/H SEC 5 TWP 101 RGE 93 ELEVATION 1609 STATEM KB.) ACRES IN UNITSO LOCATION SW CT SW/H SEC 5 TWP 101 RGE 93 ELEVATION 1609 STATEM KB.) ACRES IN UNITSO LOCATION SW CT SW/H SEC 5 TWP 101 RGE 93 ELEVATION 1609 STATEM KB.) ACRES IN UNITSO LOCATION SW CT SW/H SEC 5 TWP 101 RGE 93 ELEVATION 1609 STATEM KB.) DATA ON TEST FOR PUMPING WELL: FOR PUMPING WELL: FOR PUMPING WELL: FLOWING PRESSURE ON CSG. LBS. SQ IN. LENGTH OF STROKE 64" INCHES FLOWING PRESSURE ON TEG. LBS. SQ IN. LENGTH OF STROKE 9ER MINUTE 12 SIZE TBG. IN. WORKING BARRELS 1 1/2" (SIZE IN.) SIZE CHOKE IN TYPE CHOKE (POS.ADJ.) SHUT IN PRESSURE SIZE TBG 2 3/6" 0.D. IN. NO. FT. RUN 3433 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICE: FLM? RESULT OF THIS TEST (BBLS. NET OIL PER 24 HRS.) 35 BS CAS-OIL RATIO OF THIS WELL IS ESTÉLETED 200 (CU. FT. OF GAS PER BBL. OF OIL) PERCENT WATER PRODUCED DURING THIS TEST 508 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60' APL) 28
CITY MINOTE STATE NORTH DAKOTA COUNTY BOTTINEAU LEASE NAME CARL GLASTH WELL NO. 1 ACRES IN UNITSO LOCATION SW OF SWAY LOCATION SWAY LOCATION SW OF SWAY LOCATION SWAY
LEASE NAME CARL GLISTH LOCATION SW OF SN/4 LOCATI
LOCATION SW OF SW/4 SECTION SEC. 5 TWP_161 RGE 83 ELEVATION 1609 SECTION GAMEA RAY SONIC LOG PERMIT NO. 4026 ELECTRIC OR OTHER LOGS RUN? LATEROLOG 12/23/1965 18 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE. INCLUDING THIS WELL 2 DATA ON TEST DATE TEST COMMENCED 1/14/1966 19 HOURS AM DATE TEST COMPLETED 1/15/66 19 HOURS AM. LENGTH OF TEST. 24 HOURS MINUTES. FOR PLOWING WELL: FLOWING PRESSURE ON CSG. LESS.SQ. IN. LENGTH OF STROKE 64" INCHES FLOWING PRESSURE ON TBG. LBS.SQ. IN. NUMBER OF STROKES PER MINUTE 12 SIZE TBG. IN. WORKING BARRELS 1 1/2" (SIZE IN.) SIZE CHOKE IN. TYPE CHOKE (POS.ADJ.) SHUT IN PRESSURE SIZE TBG. 2 3/8" 0.D. IN. NO. FT. RUN. 4433 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICE? PUND RESULT OF THIS TEST (BBLS. NET OIL PER 24 HRS.) 35 85 CAS-OIL RATIO OF THIS WELL IS ESTÉTEDED 200 (CU. FT. OF GAS PER BBL. OF OIL) PERCENT WATER PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.L.) 28
PERMIT NO. 4026 ELECTRIC OR OTHER LOGS RUN! LATEROLOG 12/23/1965 18 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL. 2 DATA ON TEST DATE TEST COMMENCED 1/14/1966 19 HOURS AM DATE TEST COMPLETED 1/15/66 19 HOURS AM DINUTES. FOR FLOWING WELL: FOR PUMPING WELL: FOR PUMPING WELL: FLOWING PRESSURE ON CSG. LBS./SQ. IN. LENGTH OF STROKE DER MINUTE 12 SIZE TBG. IN. WORKING BARRELS 1/1/2" (SIZE IN.) SIZE CHOKE IN. TYPE CHOKE (POS.ADJ.) SHIT IN PRESSURE SIZE TBG. 2/3/8" 0.D. IN. NO. FT. RUN 4433 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICE? PUMP RESULT OF THIS TEST (BBLS. NET OIL PER 24 HRS.) 35 BB CAS-OIL RATIO OF THIS WELL IS ESTÉLETED 200 (CU. FT. OF GAS PER BBL. OF OIL) PERCENT WATER PRODUCED DURING THIS TEST 508 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 28
DATA ON TEST DATE TEST COMMENCED 1/14/1366 19 HOURS AM DATE TEST COMPLETED 1/15/68 19 HOURS AM LENGTH OF TEST. 24 HOURS MINUTES. FOR FLOWING WELL: FLOWING PRESSURE ON CSG. LBS.SQ. IN. LENGTH OF STROKE 64" INCHES FLOWING PRESSURE ON TEG. LBS.SQ. IN. NUMBER OF STROKES PER MINUTE 12 SIZE TEG. IN. WORKING BARRELS 1 1/2" (SIZE IN.) SIZE CHOKE IN. TYPE CHOKE (POS.ADJ.) SHUT IN PRESSURE SIZE TEG. 2 3/8" 0.D. IN. NO. FT. RUN 4433 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICE? PUMP RESULT OF THIS TEST (BBLS. NET OIL PER 24 HRS.) 35 BE GAS-OIL RATIO OF THIS WELL IS ESTÉLETED 200 (CU. FT. OF GAS PER BBL. OF OIL) PERCENT WATER PRODUCED DURING THIS TEST (CORRECTED TO 60" A.P.L.) 28
DATA ON TEST DATE TEST COMMENCED 1/14/1966 19 HOURS AM DATE TEST COMPLETED 1/15/66 19 HOURS AM LENGTH OF TEST 24 HOURS MINUTES. FOR FLOWING WELL: FLOWING PRESSURE ON CSG. LESUNG IN LENGTH OF STROKE 64" INCHES FLOWING PRESSURE ON TEG. LESUNG IN NUMBER OF STROKES PER MINUTE 12 SIZE TEG. IN WORKING BARRELS 1 1/2" (SIZE IN.) SIZE CHOKE IN TYPE CHOKE (POS.ADL.) SHUT IN PRESSURE SIZE TEG 2 3/8" 9.D. IN NO. FT. RUN 4433 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICE? PUMP RESULT OF THIS TEST (BBLS. NET OIL PER 24 HRS.) 35 #5 CAS-OIL RATIO OF THIS WELL IS ESTÉLETED 200 (CU. FT. OF GAS PER BBL. OF OIL) PERCENT WATER PRODUCED DURING THIS TEST 508 GRAVITY OF OIL PRODUCED DURING THIS IEST (CORRECTED TO 60" A.P.I.) 28
DATE TEST COMMENCED 1/14/1966 19 HOUR AM. DATE TEST COMPLETED 1/15/68 19 HOUR AM. LENGTH OF TEST 24 HOURS MINUTES. FOR FLOWING WELL: FLOWING PRESSURE ON CSG. LESS SQ. IN. LENGTH OF STROKE 64" INCHES FLOWING PRESSURE ON TEG. LESS SQ. IN. NUMBER OF STROKES PER MINUTE 12 SIZE TEG. IN. WORKING BARRELS 1 1/2" (SIZE IN.) SIZE CHOKE IN TYPE CHOKE (POS.ADJ.) SHUT IN PRESSURE SIZE TEG 2 3/8" 0.D. IN. NO. FT. RUN 4433 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICE? PUND RESULT OF THIS TEST (BBLS. NET OIL PER 24 HRS.) 35 #5 CAS-OIL RATIO OF THIS WELL IS ESTÉLATED 200 (CU. FT. OF GAS PER BBL OF OIL) PERCENT WATER PRODUCED DURING THIS TEST 50% GRAVITY OF OIL PRODUCED DURING THIS IEST (CORRECTED TO 60" A.P.L.) 28
FOR FLOWING WELL: FLOWING PRESSURE ON CSG. LBS./SQ. IN. LENGTH OF STROKE FLOWING PRESSURE ON TBG. LBS./SQ. IN. NUMBER OF STROKES PER MINUTE SIZE TBG. IN. WORKING BARRELS. SIZE TBG. SIZE TBG
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FLOWING PRESSURE ON CSG. LBS./SQ. IN. LENGTH OF STROKE 64" INCHES FLOWING PRESSURE ON TEG. LBS./SQ. IN. NUMBER OF STROKES PER MINUTE 12 SIZE TBG. IN. WORKING BARRELS 1 1/2" (SIZE IN.) SIZE CHOKE IN. TYPE CHOKE (POS.ADJ.) SHUT IN PRESSURE SIZE TBG. 2 3/8" 0.D. IN. NO. FT. RUN 4433 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICE? PUN? RESULT OF THIS TEST (BBLS. NET OIL PER 24 HRS.) 35 BB CAS-OIL RATIO OF THIS WELL IS ESTÉLETED 200 (CU. FT. OF GAS PER BBL. OF OIL) PERCENT WATER PRODUCED DURING THIS TEST 50% GRAVITY OF OIL PRODUCED DURING THIS IEST (CORRECTED TO 60° API) 28
FLOWING PRESSURE ON TEG. LBS/SQ. IN. NUMBER OF STROKES PER MINUTE 12 SIZE TBG IN. WORKING BARRELS 1 1/2" (SIZE IN.) SIZE CHOKE IN. TYPE CHOKE (POS.ADJ.) SHUT IN PRESSURE SIZE TBG 2 3/8" 0.D. IN. NO. FT. RUN 4433 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICE? PUND RESULT OF THIS TEST (BBLS. NET OIL PER 24 HRS.) 35 GAS-OIL RATIO OF THIS WELL IS ESTÉRATED 200 (CU. FT. OF GAS PER BBL. OF OIL) PERCENT WATER PRODUCED DURING THIS TEST 50% GRAVITY OF OIL PRODUCED DURING THIS IEST (CORRECTED TO 60° AP.I.) 28
SIZE TBG
SIZE CHOKEIN. TYPE CHOKE(POS.ADJ.) SHUT IN PRESSURESIZE TBG_2 3/8" 0.DIN. NO. FT. RUN 9433 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICE?PUND RESULT OF THIS TEST (BBLS. NET OIL PER 24 HRS.)35
SIZE TBG_2 3/8" 0.D. IN. NO. FT. RUN 4433 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICE? PUND RESULT OF THIS TEST (BBLS. NET OIL PER 24 HRS.) GAS-OIL FATIO OF THIS WELL IS ESTITATED 200 (CU. FT. OF GAS PER BBL. OF OIL) PERCENT WATER PRODUCED DURING THIS TEST 508 GRAVITY OF OIL PRODUCED DURING THIS IEST (CORRECTED TO 60° A.P.I.) 28
WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICE? PUMP RESULT OF THIS TEST (BBLS. NET OIL PER 24 HRS.) GAS-OIL RATIO OF THIS WELL IS ESTITISTED 200 (CU. FT. OF GAS PER BBL. OF OIL) PERCENT WATER PRODUCED DURING THIS TEST 50% GRAVITY OF OIL PRODUCED DURING THIS IEST (CORRECTED TO 60° A.P.I.) 28
RESULT OF THIS TEST (BBLS. NET OIL PER 24 HRS.) 35 85 GAS-OIL RATIO OF THIS WELL IS ESTITETED 200 (CU. FT. OF GAS PER BBL. OF OIL) PERCENT WATER PRODUCED DURING THIS TEST 508 GRAVITY OF OIL PRODUCED DURING THIS IEST (CORRECTED TO 60° A.P.I.) 28
GAS-OIL RATIO OF THIS WELL IS ESTÉLETED 200 (CU. FT. OF GAS PER BBL OF OIL) PERCENT WATER PRODUCED DURING THIS TEST 50% GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 28
GAS-OIL RATIO OF THIS WELL IS ESTÉLETED 200 (CU. FT. OF GAS PER BBL OF OIL) PERCENT WATER PRODUCED DURING THIS TEST 50% GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 28
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PERCENT WATER PRODUCED DURING THIS TEST SON GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 28
GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.L.) 28
First on Directive on order disease. Fortal Pice Line
NAME OF PIPE LINE OR OTHER CARRIER FORTAL Pipe Line IF SHOT: DATE 12/31/65 NO. QTS. USED
IF PERFORATED, NO. HOLES DEP DT 3 on 2 perfs
IF SHOT: DATE 12/31/65 IF PERFORATED: NO. HOLES PER FT. 3 on 2 perfs NO. QTS. USED NO. GALS. USED 500 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED WEBSTON FROM 4415 FT. TO 4420 FT 360 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED WEBSTON FROM 4415 FT. TO 4420 FT 360 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED WEBSTON FROM 4415 FT. TO 4420 FT 360 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED WEBSTON FROM 4415 FT. TO 4420 FT 360 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED WEBSTON FROM 4415 FT. TO 4420 FT 360 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED WEBSTON FROM 4415 FT. TO 4420 FT 360 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED WEBSTON FROM 4415 FT. TO 4420 FT 360 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED WEBSTON FT 360 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED WEBSTON FT 360 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED WEBSTON FT 360 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED WEBSTON FT 360 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED WEBSTON FT 360 GEOLOGICAL FORMATION SHOT
SHOOTING, PERFORATING OR TREATING COMPANY Lane Wells, and lowell 4438 4440 (# 20
DATE WELL COMPLETED 1/14/ 1986 19 HOUR WELL COMPLETED 5 AM
TOP OF PAY 4414 FT.
TOTAL DEPTH OF WELL 4482 FT.
NAME OF THE OWNER OWNER OF THE OWNER O
PLUG BACK DEPTH
Yo .
WAS THIS WELL CORED: NO WHAT INTERVALS?
GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM (Mone)
CASING RECORD
CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks
CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement
CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks

Date: 10/9/2001 Time: 11:05 AM

1 CARL GILSETH

NORTH DAKOTA State:

BOTTINEAU County: Operator: GOFOR OIL CO INC

> 33009009230000 IC: API:

Initial Class:

Target Objective:

Final Well Class: DO

Status: OIL

Field: **MOHALL**

Permit: 4026 on SEP 15, 1972

Abandonment Date:

35 BBL

Projected TD:

4500

Formation: MADISON

Hole Direction:

IP Summary:

Oil

Water Top Form

35 BPD

Gas

MISSION CANYON /ANHY/ PORO/

Location

83 W 161 N Section, Twp., Range:

SW SW Spot Code:

Footage NS, EW: 660 FSL

660 FWL

CONGRESS SECTION

Surface remark:

5TH PRINCIPAL MRD Principal Meridian:

Lat/Long:

48.7940300 / -101.4717600

US

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface: TVD:

Dates and Depths

Spud:

DEC 16, 1965 4482 on

Spud Date Code:

TD:

LTD:

PlugBack Depth:

Completed:

JAN 15, 1966

Formation @ TD:

353FRBR

Ref. Elevation:

Name: FROBISHER

1609 KB

KB. Elevation:

1609

Ground Elevation:

Contractor:

CIRCLE A DRILLING INCORPORATED

Rig Release Date:

Rig#

IP# 001

Top Formation: MISSION CANYON /ANHY/ PORO/

Base Formation: Oil:

MISSION CANYON /ANHY/ PORO/ 35 BPD

Gas:

Water: 35

Interval:

4415 - 4440 **GROSS** Method: PUMPING

BBL

Duration of Test:

24 Hours

Choke:

Oil:

Gravity:

Condst:

Prod Method: PERF

28

GOR: 200

Interval

Cnt Type Shots/Ft

Top Formation

Perforations: 4415 -

4416

JET **JET** 3 FT 352MSNC 3 FT 352MSNC MISSION CANYON /ANHY/ PORC

4418 -4420 4438 -4440

JET

4 FT 352MSNC

MISSION CANYON /ANHY/ PORC MISSION CANYON /ANHY/ PORC

Date: 10/9/2001 Time: 11:05 AM

4415 - 4440 Treatments: Interval: Fluid: 500 GAL ACID Type: A Additive: Prop Agent: Formation Break Down Pressure: Average Injection Rate: Stages: Remarks: Casing, Liner, Tubing Casing 8 5/8 IN @ 344 w/ 235 sx Casing 4 1/2 IN @ 4482 w/ 200 sx Tubing 2 3/8 IN 4433 TUBING (a)Formations and Logs Log# 1 AV (a) Log# 2 EL (a) Top Formation Measured Top Base Base Source Lith-Age TVD TVD Depth Depth ology code LOG 603 **GREENHORN** 2257 MOWRY 2545 LOG 602 2787 LOG 602 **FALL RIVER** JURASSIC /SYSTEM/ 3130 LOG 559 3988 LOG 469 SPEARFISH 4175 LOG 359 **MADISON FROBISHER** 4282 LOG 353 **Dwights Energydata Narrative** Accumulated through 1997 Madison: P 35 BOPD 28.0 Grav, 35 BWPD GOR 200:1 iP: 4415-4416 (Madison Perfs:) Perfs: 4418-4420 (Madison) Perfs: Perfs: 4438-4440 (Madison Perfs:) /4; Acidized overall; Perfs: None Dst: None Cores: Dwights number: R8070140 **Operator Address** Street or PO Box:

> City: State, Zip: Country: Phone:

> > E-Mail:

Agent Name: Agent Remark: Fax:

Agent Code:

No. Dakota State Industrial Comm. Oil and Gas Division

WELL COMPLETION REPORT
SEE INSTRUCTIONS OTHER SIDE

JUL 1983 RECEIVED

STREET				n * (- .)				
	500 Jefi	erson Bldg	Corporation	1009	ission Can	70n ·	V 2.0	
TTV:	Houston	2.	STATE_	Texas	co	L'NTY	Harris	
FASE WAR	E Carl O.	Gilseth		WELL NO) <u> </u>	ACRES	IN UNIT_8	0
COLITION	SW, NW	S1	EC 5_ TW	P 161 K	RGE <u>83 W</u> E	LEVATO	ON 1607 . I	Microsope KB (
	⊸ of '⊾ Se	ction						
PERMIT NO	3902	_ELECTRIC	OR OTHER LO	DGS RUN'L	IES, Sonic	GR	6/9	19.65
O REEMUN	F CRUDE OIL	PRODUCING	WELLS ON TH	IS LEASE,	INCLUDING I	HIS WE	T.T	
			DATA	ON TEST				
				•	-		-	
	COMMENCED							
LENGTH O	F TEST	2	4	_HOURS .				_MINUTES.
PAR EL AW	ING WELL:			FOR PLY	PING WELL:			
OK PLOW	PRESSURE ON	c=c -					64	INCHES
FLOWING R	PRESSURE ON	C3G	1 25 50 1	N NEWS	or sino.	ere ora	MINITE	15
			ubs -sq. :	un noni	KING BARREI	* 1	-3/4	SIZE IN
	<u> </u>				ing banazi	<u> </u>		2.0122 1.7
SIZE CHOK	FIN. RESSURE	TYPE CHOK.	E	J.;	- 2-3/5		NT NEW 1977 (urray 4424
	WELL FLOWE				HIS LEST WI	130c1	THE USE OF	SWAS OR
OTHER AR	TIFICIAL DEV	ICE:	No.				•	
<u></u> -								
RESUI	T OF THIS TE	ST (BBLS, NI	et oil per 24	HRS.)	20			÷
	IL RATIO OF	THE MET!	rs 357/	/1	CT FT	OF GAS	PER SRI C	• 017.1
PERCE	NT WATER P	RODUCED DU	TRING THIS T	EST <u>80</u>				
	TY OF OIL P	מאטיייים או	DING THE T	FST /COST	FOTED TO 60°	APIT	28.10	
GRAV.	(PY OF OIL P	RODUCED DO	, KING INIS I	ESI (COAA	LCILD IO G	15-1-1-1-		
EOLOGICA	AL FORMATIO	N SHOT, PER	REFORATED OR	TREATED!	zed, No. GAI <mark>(1881on Can</mark> y	e. Usei erron_	<u>2500 </u>	0_4422_FI.
SHOOTING, DATE WELL	AL FORMATION PERFORATION L COMPLETED AY	OR TREATE	REFORATED OR ING COMPANY. 27 19 63	TREATEDA Lane: HOUR W	<u> Ussion Cany</u> Wells: Dowe	PEROM_	4412 FT. TO	0_4422_FT.
SHOOTING, DATE WELL	PERFORATING L COMPLETED	OR TREATE	REFORATED OR ING COMPANY. 27 19 63	TREATEDA Lane: HOUR W	<u> Ussion Cany</u> Wells: Dowe	PEROM_	4412 FT. TO	0_4422_FT.
SHOOTING, DATE WELL	PERFORATING L COMPLETED	OR TREATS 6/ 4412	REFORATED OR ING COMPANY. 27 19.63	TREATEDA Lane: HOUR W	Mells: Dowe	ED	4412 FT. TO	0_4422_FT.
HOOTING, DATE WELL	PERFORATING L COMPLETED	OR TREATI 6/ 4412 TOTAL DER	REFORATED OR ING COMPANY. 27 19.63	TREATEDA Lane- MOUR W TT.	Hission Camy Wells: howe ELL COMPLET	EPROM_ ED _FT.	4412 FT. TO	0_4422_FT.
SHOOTING, DATE WELL	PERFORATING L COMPLETED	OR TREATI 6/ 4412 TOTAL DER	REFORATED OR ING COMPANY. 27 19.63	TREATEDA Lane- MOUR W TT.	Hission Camy Wells: howe ELL COMPLET	EPROM_ ED _FT.	4412 FT. TO	0_4422_FT.
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SHOOTING, DATE WELL FOR OF PA	PERFORATING L COMPLETED AY	TOTAL DEP	PEFORATED OR ING COMPANY, 27 19 65 PTH OF WELL K DEPTH YAS VERSE SIDE OF	TREATEDN Lane: HOUR W T. 443 WHAT D	VISSION CANY WELLS: Nowe ELL COMPLET ILL VIERVALS:	FT.	4412 FT. TO	0_4422_FT.
SHOOTING, DAYE WELL TOP OF PA WAS THIS SIVE DRILL	PERFORATING L COMPLETED AV WELL CORED L STEM TEST I	TOTAL DEP	PTH OF WELL K DEPTH YES CASIN	TREATEDAN Lane: HOUR W T. 443 WHAT II THIS FORM G RECORD	(ission Cany Wells: howe ELL COMPLET	_FTFT4392	4412 FT. TO 12:30	D_4422_FT.
SHOOTING, DAYE WELL TOP OF PA	PERFORATING L COMFLETED AY WELL CORED L STEM TEST I	TOTAL DEP	PTH OF WELL K DEPTH YES CASIN	TREATEDA Lane: HOUR W T. 443 447 WHAT II THIS FORD G RECORD	Wells: hower the Complete Comp	EFROM_ EDFTFTFT	4412 FT. TO	0_4422_FT.
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SHOOTING, DAYE WELL TOP OF PA WAS THIS GIVE DRILL Size 8-5/8"	WELL CORED STEM TEST I	TOTAL DEP PLUG BAC ATA ON REV Left in Tr. 322	PTH OF WELL K DEPTH YES CASIN Well No Sacin Cemen 7 135	TREATEDA Lane: HOUR WIT. 443 WHAT II THIS FORD G RECORD	Wells: hower the Complete Comp	EFROM_ EDFTFTFT	4412 FT. TO 12:30	P. M. No. Sacks
SHOOTING, DATE WELL FOR OF PA WAS THIS GIVE DRILL Size 8-5/8" 4-1/2"	WELL CORED STEM TEST I	TOTAL DEP PLUG BAC AATA ON REV Left in Tr. 322 4427	PTH OF WELL K DEPTH YES VERSE SIDE OF CASIN Well No Saci	TREATEDA Lane: HOUR WIT. 443 WHAT II THIS FORD G RECORD	Wells: hower the Complete Comp	EFROM_ EDFTFTFT	4412 FT. TO 12:30	P. M. No. Sacks
SHOOTING, DAYE WELL TOP OF PA WAS THIS GIVE DRILL Size 8-5/8"	WELL CORED STEM TEST I	TOTAL DEP PLUG BAC ATA ON REV Left in Tr. 322	PTH OF WELL K DEPTH YES CASIN Well No Sacin Cemen 7 135	TREATEDA Lane: HOUR WIT. 443 WHAT II THIS FORD G RECORD	Wells: hower the Complete Comp	EFROM_ EDFTFTFT	4412 FT. TO 12:30	P. M. No. Sacks
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WAS THIS Size 8-5/8" 4-1/2" 2-3/8" EXECUTED	WELL CORED STEM TEST IN 1822 7 4424	TOTAL DEP PLUG BAC AATA ON REV Left in 'ft. 322 4427 4424 DAY OF	PEFORATED OR ING COMPANY, 27 19 65 FOR WELL K DEPTH Yes CASIN: Well No Sacin. Cemen 7 135 106	TREATEDA Lang. HOUR W T. 443 WHAT IP THIS FORD G RECORD	VIERVALS*	FT. 4392	4412 FT. TO 12:30 ' - 4427' Left in Well Ft. In.	No. Sacks Cemen:
SHOOTING, DATE WELL TOP OF PA WAS THIS SIZE 8-5/8" 4-1/2" 2-3/8" EXECUTED	PERFORATING L COMPLETED AY WELL CORED L STEM TEST II Put in Well Fr. In. 322 7 4427 5 4424 THIS 13th	TOTAL DEP PLUG BAC A412 TOTAL DEP PLUG BAC DATA ON REV Left in 'ft. 322 4427 4424	PEFORATED OR ING COMPANY, 27 19 65 FOR WELL K DEPTH Yes CASIN: Well No Sacin. Cemen 7 135 106	TREATEDA Lang. HOUR W T. 443 WHAT IP THIS FORD G RECORD	Wells: Nowe ELL COMPLET Out in We Ft. I	FT. 4392	4412 FT. TO 12:30 ' - 4427' Left in Well Ft. In.	No. Sacks Cemen:
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SHOOTING, DATE WELL TOP OF PA WAS THIS SIZE 8-5/8" 4-1/2" 2-3/8" EXECUTED STATE OF COUNTY O Before me:	PERFORATING L COMFLETED AY WELL CORED L STEM TEST II Put in Well Fr. In. 322 7 4427 5 4424 THIS 13th 1 Texas F Harris the undersigned	C OR TREATH 6/ 4412 TOTAL DEF PLUG BAC DATA ON REV Left in ' ft. 322 4427 4424 DAY OF authority. on	PUTH OF WELL K DEPTH YAS CERSE SIDE OF CASING Well No. Sacinin Certen 7 135 5 100 July	TREATEDA Lane: HOUR W T. 443 444 WHAT II THIS FORD G RECORD GS Size 1 19 65	Wells: hower the Complete the C	PT. 4392	Left in Well Ft. In. Left in Operator) See Supt	No. Sacks Cemen:
SHOOTING, DAYE WELL TOP OF PA WAS THIS GIVE DRILLI Size 8-5/8" 4-1/2" 2-3/8" EXECUTED STATE OF COUNTY O Before me	WELL CORED L STEM TEST II Put in Well Ft. In. 322 7 4427 5 4424 THIS 13th: Texas F Harris the undersigned	C OR TREATI 6/ 4412 TOTAL DEF PLUG BAC DATA ON REV Left in 'ft. 322 4427 4424 DAY OF	PEFORATED OR ING COMPANY, 27 19.65 PIH OF WELL K DEPIH YAS VERSE SIDE OF CASIN: Well No. Sacin. Cemen 7 135 5 100 July this day personed to the above	TREATEDA Lane: HOUR W T. 443 443 WHAT II THIS FORE G RECORD CS Size 1 19 65 19 65	Wells: hower the Complete the C	FT. 4192 B. Brome duly	4412 FT. TO 12:30 1 - 4427 Left in Well Ft. In. um Corporator) 2 . Supt this ck. sworn on cat	No. Sacks Cement Lion shown to me h states that
SHOOTING, DATE WELL TOP OF PA WAS THIS GIVE DRILL Size 8-5/8" 4-1/2" 2-3/8" EXECUTED STATE OF COUNTY O Before me is to be the pa ne is author	PERFORATING L COMFLETED AY WELL CORED L STEM TEST I Put in Well Fr. In. 322 7 4427 5 4424 THIS 13th : Texas F Harris the undersigned erson whose har- ited to make the	C OR TREATH 6/ 4412 TOTAL DEF PLUG BAC DATA ON REV Left in ' ft. 322 4427 4424 DAY OF authority, on the is subscribe is report and if	PEFORATED OR ING COMPANY, 27 19 65 FOR THE PETH OF WELL K DEPTH Yes VERSE SIDE OF CASINI Certen 7 135 5 100 July this day personed to the above has knowledge of the control of the contro	TREATEDN Lane: HOUR W T. 443 WHAT II THIS FORD RECORD A Size II III III III III III III I	Wells: hower the Complete the C	FT. 4192 B. Brome duly	Left in Well 12:30 Left in Well Ft. In. Corpora or Operator) Num Corpora or Operator) Supt (Title or operator) sworn on cat is report to true	No. Sacks Cement:
SHOOTING, DATE WELL TOP OF PA WAS THIS GIVE DRILL Size 8-5/8" 4-1/2" 2-3/8" EXECUTED STATE OF COUNTY O Before me is to be the pa ne is author	WELL CORED L STEM TEST II Put in Well Ft. In. 322 7 4427 5 4424 THIS 13th: Texas F Harris the undersigned	C OR TREATH 6/ 4412 TOTAL DEF PLUG BAC DATA ON REV Left in ' ft. 322 4427 4424 DAY OF authority, on the is subscribe is report and if	PEFORATED OR ING COMPANY, 27 19 65 FOR THE PETH OF WELL K DEPTH Yes VERSE SIDE OF CASINI Certen 7 135 5 100 July this day personed to the above has knowledge of the control of the contro	TREATEDN Lane: HOUR W T. 443 WHAT II THIS FORD RECORD A Size II III III III III III III I	Wells: hower the Complete the C	FT. 4192 B. Brome duly	4412 FT. TO 12:30 1 - 4427 Left in Well Ft. In. um Corporator) 2 . Supt this ck. sworn on cat	No. Sacks Cement:
SHOOTING, DATE WELL TOP OF PA WAS THIS GIVE DRILL Size 8-5/8" 4-1/2" 2-3/8" EXECUTED STATE OF COUNTY O Before me is to be the pa ne is author	PERFORATING L COMFLETED AY WELL CORED L STEM TEST I Put in Well Fr. In. 322 7 4427 5 4424 THIS 13th : Texas F Harris the undersigned erson whose har- ited to make the	C OR TREATH 6/ 4412 TOTAL DEF PLUG BAC DATA ON REV Left in ' ft. 322 4427 4424 DAY OF authority, on the is subscribe is report and if	PEFORATED OR ING COMPANY, 27 19 65 FOR THE PETH OF WELL K DEPTH Yes VERSE SIDE OF CASINI Certen 7 135 5 100 July this day personed to the above has knowledge of the control of the contro	TREATEDN Lane: HOUR W T. 443 WHAT II THIS FORD RECORD A Size II III III III III III III I	Wells: hower the Complete the C	FT. 4192 B. Brome duly	Left in Well 12:30 Left in Well Ft. In. Corpora or Operator) Num Corpora or Operator) Supt (Title or operator) sworn on cat is report to true	No. Sacks Cement:

10/9/2001 Date: 11:05 AM Time:

1 CARL O GILSETH ETUX

State:

NORTH DAKOTA BOTTINEAU

County:

Operator:

OUINTANA PET CORP

API:

33009008930000

Initial Class: D

Target Objective:

Final Well Class:

DO

OIL Status:

Field:

MOHALL

Permit: 3902 on SEP 15, 1972

#3890

Projected TD:

4450

Formation: MADISON

Hole Direction:

IP Summary:

Oil

1980 FNL

Gas

Water

Top Form

IC:

20 BPD

16 BBL

Abandonment Date:

MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range:

SW NW

83 W 161 N

660 FWL

CONGRESS SECTION

Footage NS, EW: Surface remark:

Spot Code:

Principal Meridian:

5TH PRINCIPAL MRD

Lat/Long:

48.8011700 / -101.4717800

US

PBHL:

PHBL remark:

ABHL:

ABHL remark: ABHL:

From Surface:

TVD:

Dates and Depths

Spud:

JUN 02, 1965 4427 on

Spud Date Code:

Name: MISSION CANYON /ANHY/ PORO/

TD:

LTD: 4434

PlugBack Depth:

4425

Completed:

JUL 03, 1965

Formation @ TD:

352MSNC

Ref. Elevation: KB. Elevation: 1607 KB

Ground Elevation:

1607 1598 GR

Contractor:

CARDINAL DRILLING

Rig Release Date:

Rig#

IP# 001

Top Formation: Base Formation: MISSION CANYON /ANHY/ PORO/ MISSION CANYON /ANHY/ PORO/

Oil:

20 BPD

Condst:

Water: 16 **BBL**

Gas:

4412 - 4422

Method: PUMPING

Interval: Duration of Test:

Hours

Choke:

Oil:

Gravity:

28.1

GOR: 357

Prod Method: Perforations: **PERF** Interval

Cnt Type

Top Formation

4412 -

4422

2 FT 352MSNC

Shots/Ft

MISSION CANYON /ANHY/ POR

Treatments:

Interval: ı

4412 - 4422

l of 3

10/9/2001 Date: Time: 11:05 AM

Fluid:

2500 GAL

ACID

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate:

Stages:

Remarks:

Remarks on IP Test #

001

Show:

PLUS 80% WTR

DST # 001

Formation: MISSION CANYON /ANHY/ PORO/

Interval:

S

1

4388 - 4427

BHT

Choke:

Top: 92

Bottom: SO&GCM Rec Method: PIPE

Recovery: Recovery:

310 FT O

FT

Rec Method: PIPE

Recovery:

2 561 3

FT XW Rec Method: PIPE

Pressures and Times:

Hydro Init Final

Init Flow Final Init

Final Flow lnit Final 50 450

Shut-in Init Final 1660 1862

Open Time Init Final 60

Type: A

Shut-in Time Final Init 60 60

Core Id: 001

Formation:

352MSNC

MISSION CANYON /ANHY/ PORO/ FT

Interval:

4396 - 4431

Rec: 35 Show Type: OSTN

Core Type: Description: CONV

2 SS, FG, ANGULAR, DOLO, TIGHT, NO SHOW

1 DOLO, LIGHT BUFF, TIGHT, NO SHOW

1 ANHY, FINE CRYS, CLEAR, DOLO INCLUSIONS, NO SHOW

3 ANHY, WHITE TO GREY

I DOLO, BUFF, FINE CRYS, FEW SPECKS DARK BROWN STAIN

FAIR ODOR

I DOLO, AS ABOVE BUT INTERMIXED W/ANHY, BLACK SH PTGS

1 DOLO, LIGHT GREY, MARLY, SLI SILTY, TIGHT, NO SHOW

1 DOLO, DARK GREY, NO SHOW

1 DOLO

I DOLO, TRACE SMALL VUGGY PORO, BLDG SALT WTR

1 DOLO, APPROX 30% FINELY GRANULAR, STAINED, PROBABLY

GOOD INTERGRANULAR PORO

1 DOLO, GREY, MARLY, TIGHT, NO SHOW

1 DOLO, ABOUT 30% GRANULAR, STAINED, GOOD PORO

1 DOLO, 30-50% GRANULAR, STAINED, FAIR SMALL VUGGY

PORO, GOOD INTERGRANULAR PORO

1 LS, LIGHT GREY TO BUFF, MARLY, RARE VUGS FILLED

W/BROWN OIL, FAIR-GOOD INTERPELLETOID PORO, LINED

W/DOLO CRYSTALS

1 LS, AS ABOVE BUT PELLETOID STREAKS POORLY SORTED

1 LS, INCREASE IN ANHY, TRACE BLDG FROM

INTERPELLETOID PORO

LS & DOLO, LS, TAN, POOR VUGGY PORO, FULL OF BROWN

STAINED

1 DOLO, TIGHT, EXCEPT PATCHES GRANULAR DOLO AS ABOVE

2 LS, FAIR INTERPELLETOID PORO, LINED W/DOLO CRYSTALS

STAINED, THIN STREAKS BROWN ANHY

1 LS, BUFF, VUGS PARTLY LINED W/DOLO CRYSTALS

STAINED

1 LS, NO PORO, NO SHOW

1 DOLO, LIGHT GREY, MARLY, TIGHT, NO SHOWS

Date: 10/9/2001 Time: 11:05 AM

2 DOLO, STREAKS FINELY GRANULAR, FAIR INTERGRANULAR PORO

1 DOLO, TAN, MARLY, TIGHT, CLEAR ANHY INCLUSIONS 1 DOLO, POOR PORO, POOR STAIN & ODOR, NO PERM 1 LS, BUFF, FINELY CRYS, SILTY, POOR-FAIR PPP, NO SHOW

SHOW 2 LS, TIGHT, STREAKS CLEAR ANHY

1 DOLO, LIGHT GREY, MARLY, SANDY, TIGHT, NO SHOW

Casing, Liner, Tubing

Casing 8 5/8 IN @ 322 w/ 135 sx
Casing 4 1/2 IN @ 4427 w/ 100 sx
Tubing 2 3/8 IN @ 4424 TUBING

Drilling Journal

 Obs. #
 Interval
 Type
 Form
 Sample

 Show 1
 4388 - 4427
 O&G
 352MSNC - 352MSNC

Formations and Logs

Log # 1 Π (a) 322 - 4433 Log # 2 ΑV (a) 3300 - 4430 Top Formation Measured Top Base Base Source Lith-Age Depth TVD Depth TVD ology code **GREENHORN** 2246 LOG 603 DAKOTA 2777 LOG 602 **SPEARFISH** 3910 LOG 469 CHARLES /SALT/ 4148 LOG 353 MIDALE /ANHY/ 4223 LOG 353 MISSION CANYON /ANHY/ PO 4398 LOG 352

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: P 20 BOPD 28.1 Grav, 80 BWPD GOR 357:1

Perfs: 4412-4422 (Madison

Perfs: /2; A/2500 gals; Dst: #1 4388- 4427

Dst: , SI/1 hr, op 1 hr, SI/1 hr, rec 90' sli O&GCM, 310' oil, 561' SW, FP

Dst: 50-450#, SIP 1862-1660#

Dwights number: R8068900

Operator Address

Street or PO Box:

City:
State, Zip:
Country:
Phone:
E-Mail:

Agent Name:

Agent Remark:

Fax:

Agent Code:

No Dakota State Industrial Common Oil and Gas Division

		١	WELL COMPLE	TION	REPORT		#	3996	1
	naman ari				MOMALI	1	,	3116	
PERATOR_			F			M CANYON			
TREET	P. O. EOX	730	STATE NOS				— ይለጣጥቸዝነቱ ፅ	ır:	
ITY	MINOT	2001 27 /	STATE\	12 FT T	NO E 1	LINUUD. Acets	רויאיז זאי	പട്ട് ജന	
EASE NAMI	EGEGRGE SHU	KSCH - FT S	5 TWP.	161	RGE 83	TI FUAT	10a: 1626	GTIES AS	XB)
	Nof 4. Se	rtion			-Gemma Rav	, Somic L	O <u>s</u>	. •- ··	
ON TIMBE	<u>4008</u>	ELECTRIC	OR OTHER LOGS	RUN	· Induction	Log	12/13	19 <u>5</u> 5	<u> </u>
NUMBER OF	CRUDE OIL	PRODUCING	WELLS ON THIS	LEASE	, INCLUDING	G THIS W	ELI. 2		
			DATA OI						
		- 125 165				2.71	2 6	: a e	
DATE TEST	COMMENCED.		9 HOUR ^{8 A} M			LETED <u>-/</u> ±	199		
LENGTH OF	TEST	74	1	HOURS	-	· ···		MIN	UTES.
FOR FLOWE	NG WELL:				MPING WEI				
LOWING PI	RESSURE ON	CSG	LBS./SQ, IN.	L.E.	GTH OF ST	ROKE 4	8	IN	CHES
LOWING PI	RESSURE ON	TBG	LBS./SQ. IN.	NU	MBER OF ST	ROKES PE	R MINUTE	11	
				wo.	RKING BAR	rels <u>l</u>	1/2"	KSIZE	(MI)
			E(POS.ADJ.)			A			1122
SHUT IN PR	ESSURE								
			ENTIRE DURATION	ON OF	THIS TEST	WITHOUT	THE USE	E OF SWA	B OR
OTHER ART	IFICIAL DEV	ICE?PUMP							
			-		*00				
RESULT	OF THIS TES	ST (BBLS, NE	T OIL PER 24 H	RS.) _	100			·· ···	- ;
GAS-OL	L RATIO OF	THIS WELL I	s Estimated	150	(CU.	FT. OF GA	S PER BB	L., of oil	,
			RING THIS TEST			<u> </u>	20		·
GRAVII	TY OF OIL PE	CODUCED DU	RING THIS TEST	r (COF	RECTED TO	60° A.P.I.)			- !
HOOTING.	PERFORATING COMPLETED	OR TREATE 1/15/	RFORATED OR TO NG COMPANY L 1966	ane %	elis CoL	10M8TT		8	Ам
IOP OF PA	x	<u> </u>	F 1.						
	Γ			•••					
	İ	TOTAL DEP	TH OF WELL 449	<u> </u>		FT.			
	-		K DEPTH . 446		_	FT.			
	<u>.</u>								
nive mate t	WELL CORED	, No	,	WHAT	INTERVALS	?			
WAS IMIS V SIVE DRILL	STEM TEST D	ATA ON REV	ERSE SIDE OF T						
J. 1 D. 1.1.22	0.2.3		CASING !						
	m . /- 197-33	Left in V	Well No. Sacks	Size	Put in	Well - —	Left in W	(≠1) No.3	Secks
Size	Put in Well Pt. In.	Ft.	In. Cement		Ft.	In.	Ft.		nent
8 5/8 ^{II}	349	345	175						
4 1/2			200						
	19+h -		usry 1a	66	COFOR	OIL INC			
EXECUTED	THIS	DAY OF Jan			/	(Company	or Operat	or)	
N	orth Dakota			11	ean /	Luck	J	Presiden	t
		53			(Signature)			(Title)	
COUNTY OF		—;			Vale	/ • O Tuma	!	4	
Before me th	se undersigned	authority, on	this day personal	ly appe		o C. Lund		known	
to be the per	rson whose nan	ne is subscribe	ed to the above in les knowledge of t	strume: he facts	nt, who being stated herein	by me dul; and that sa	y sworn of id report is	n oath state : true and c	orrect.
			3045		January	· ·		66	
Subscribed at	nd sworn to b	efore me this	theday	of		1/2	19.	·	
					January Land	Wankel	antle	<u> </u>	
Via Oc	ion expires. S	otober 16.	1969	Notavy	Public in and		ed Count	<u>y</u>	
v Pommies	ION EXTITES	the second second second			- www. in eith				_

otaxy Public in and for.

Night Dakota State Industrial Componing on Oil and Gas Division Gas Division WELL COMPLETION REPORT Jam



3996

OPERATOR GOFER OIL INC.	FIELD	HARALL	Sures S
STREET 201 Sullivan Bldg.	POOT.	MISSION CANYO	N September 1
CITY MINOT	STATE NORTH DA	KOTA COUNT	Y BOTTINEAU
LEASE NAME STORGE SHURSON, ET AL LOCATION SW/4 of SE/4 Section	TWP 151N	RGE 634 ELEV	ATION 1626 *DF N. KB.
of & Section		Sonic Log	10 132 /65
PERMIT NO. 4008 ELECTRIC OR O	THER LOGS RUNT	Tuggetter For	12/13/00 19
NUMBER OF CRUDE OIL PRODUCING WELL	S ON THIS LEASE,	INCLUDING THIS	WELI. 2
	DATA ON TEST		
10/09/85	the second secon	man doubt PERD	12/30/65
DATE TEST COMMENCED 12/23/65 19 1	IOURM. DATE T	EST COMPLETED	MINITERS AND
LENGTH OF TEST 7 days (Swabbing)	HOURS		
FOR FLOWING WELL:		MPING WELL:	
FLOWING PRESSURE ON CSGL	BS./SQ. IN. LENG	TH OF STROKE	INCHE
FLOWING PRESSURE ON TBG.	BS./SQ. IN. NUM	BER OF STROKES	PER MINUTE
SIZE TBG. 2" IN.	WOR	KING BARRELS_	(SIZE IN
SIZE CHOKE 3/4 IN. TYPE CHOKE	6665 ADJ.)	- 4-	14.2A
SHUT IN PRESSURE	SIZE TE	G. 2"	IN. NO. FT. RUN 4420
WAS THIS WELL FLOWED FOR THE ENTIR	RE DURATION OF	THIS TEST WITHO	OUT THE USE OF SWAB OF
OTHER ARTIFICIAL DEVICE? No			
RESULT OF THIS TEST (BBLS. NET OR	L PER 24 HRS.) Sw	abbed 100 Bbls	in 7 Hrs. 12/28/65
GAS-OIL RATIO OF THIS WELL IS			
ł control de la			
PERCENT WATER PRODUCED DURING	THIS TEST		
GRAVITY OF OIL PRODUCED DURING	THIS TEST (COR	RECTED TO 60' A.I	P.I.) 23
l			
NAME OF PIPE LINE OR OTHER CARRIER	## C. S. Crude	Oil Purchasing	Co
TE SHOT: DATE 12/21/65	NO. QTS	. USED	
IF SHOT: DATE 12/21/65 IF PERFORATED: NO. HOLES PER FT2 CD	2 perfs I ferf if ACID	IZED: NO. GALS. 1	ISED 120 gal 7% Acid
IF PERFORATED: NO. HOLES PER FTZ_CD_ GEOLOGICAL FORMATION SHOT, PERFORA	ATED OR TREATED	Mission Canyon	ом 4424 гт. то 1123 гт
SHOOTING PERFORATING OR TREATING C	OMPANY <u>Lane Hel</u>	lls Co.	
DATE WELL COMPLETED 12/30/65	19HOUR \$	ELL COMPLETED	5 P.MN
	FT.		
	0000		
	F WELL 4490		į.
PLUG BACK DE	= <u>C344</u> HT9	FT	<u>'. </u>
1			 .
WAS THIS WELL CORED!No	WHAT	INTERVALS?	
GIVE DRILL STEM TEST DATA ON REVERSE	SIDE OF THIS FOR	um. None	
GIVE DRILL SIEM TEST ESTE GO. 112 - 21-21	CASING RECORD		
Size Put in Well Left in Well Ft. In. Ft. In.	No. Sacks Size Cement	Put in Well Fr. In.	Left in Well No. Sacki Ft. In. Cement
	- 		
等养免疫	220		
4 1/2 4490 4490	200		
			
EXECUTED THIS 5th DAY OF JANUARY	19 66 <u>19 66 </u>	GOFOR OIL	TYP:
		· · · · · · · · · · · · · · · · · · ·	4-16-6
	بر . ۷۷ ۱۹		any or Operator)
		mes Este	portic Secy-Treas
STATE OF MORTH BAKOTA	19 💆		The state of the s
STATE OF MORTH DAKOTA COUNTY OF WARE	<u> </u>	(Signature)	(Title)
STATE OF MORTH EAKOTA COUNTY OF WARE Before me the undersigned authority, on this	day personally appea	ince Ed (Signature)	(Title) Kankel known to m
STATE OF NORTH BAKOTA COUNTY OF WARE Before me the undersigned authority, on this	day personally appearing above instrument	(Signature) red James E. t. who being by me	(Title) Wankel known to me duly sworn on oath states the
STATE OF NORTH DAKOTA COUNTY OF WARE Before me the undersigned authority, on this to be the person whose name is subscribed to he is authorized to make this report and has kn	day personally appear the above instrument lowledge of the facts	(Signature) red James E. t, who being by me stated herein and the	(Title) Kankel known to me duly sworn on oath states the task report is true and correct
STATE OF MORTH BAKOTA COUNTY OF WARE Before me the undersigned authority, on this to be the person whose name is subscribed to he is authorized to make this report and has kn Subscribed and sworn to before me this the	day personally appear the above instrument lowledge of the facts	(Signature) red James E. t. who being by me	(Title) Wankel known to me duly sworn on oath states the
STATE OF MORTH DAKOTA COUNTY OF WARE Before me the undersigned authority, on this to be the person whose name is subscribed to he is authorized to make this report and has kn Subscribed and sworn to before me this the	day personally appearing above instrument towledge of the facts:	(Signature) red James E. t, who being by me stated herein and the	(Title) Kankel known to me duly sworn on oath states the task report is true and correct
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STATE OF MORTH DAKOTA COUNTY OF WARE Before me the undersigned authority, on this to be the person whose name is subscribed to he is authorized to make this report and has kn Subscribed and sworn to before me this the	day personally appearing above instrument towledge of the facts:	(Signature) red James E. t, who being by me stated herein and the	(Title) Kankel known to me duly sworn on oath states that is said report is true and correct to the state of the said report is true and correct to the said report to the said
STATE OF MORTH DAKOTA COUNTY OF WARE Before me the undersigned authority, on this to be the person whose name is subscribed to he is authorized to make this report and has kn Subscribed and sworn to before me this the	day personally appearing above instrument towledge of the facts:	(Signature) red. James E. t. who being by me stated herein and the	(Title) Kankel known to me duly sworn on oath states that is said report is true and correct to the state of the said report is true and correct to the said report to the said
STATE OF NORTH DAKOTA COUNTY OF WARE Before me the undersigned authority, on this to be the person whose name is subscribed to he is authorized to make this report and has kn Subscribed and sworn to before me this the	day personally appear the above instrument nowledge of the facts:	(Signature) red. James E. t. who being by me stated herein and the	(Title) Kankel known to me duly sworn on oath states that is said report is true and correct to the state of the said report is true and correct to the said report to the said

Date. 10/9/2001 Time: 11:07 AM

1 GEORGE SHURSON ETAL

NORTH DAKOTA State: **BOTTINEAU** County:

GOFOR OIL CO INC Operator:

33009009190000 API:

Initial Class: D

Target Objective:

DO Final Well Class: OIL

Status: MOHALL Field:

4008 Permit:

on SEP 15, 1972

3996 Formation: MADISON 4500 Projected TD:

Hole Direction:

Water Gas IP Summary: Oil

100 BPD

Top Form MISSION CANYON /ANHY/ PORO/ 2 BBL

IC:

Abandonment Date:

Location

83 W N Section, Twp., Range: 161

SW SE Spot Code:

CONGRESS SECTION 660 FSL 1980 FEL Footage NS, EW:

Surface remark:

5TH PRINCIPAL MRD Principal Meridian:

Lat/Long: PBHL:

48.7940600 / -101.4827100 US

PHBL remark:

ABHL:

ABHL remark:

From Surface: ABHL:

TVD:

Dates and Depths

Spud Date Code: NOV 28, 1965 Spud:

4490 on TD:

LTD:

PlugBack Depth: 4460 JAN 15, 1966

Completed:

Name: MADISON 359MDSN Formation @ TD:

1626 KB Ref. Elevation: 1626 KB. Elevation: 1614 GR

Ground Elevation:

CIRCLE A DRILLING INCORPORATED Contractor:

Rig# Rig Release Date:

IP# 001

MISSION CANYON /ANHY/ PORO/ Top Formation:

MISSION CANYON /ANHY/ PORO/ Base Formation:

Condst: 100 BPD Oil:

BBL Water: 2 Gas: Method: PUMPING **GROSS** 4422 - 4427 Interval:

Choke: 24 Hours **Duration of Test:** GOR: 150 28 Oil: Gravity:

PERF Prod Method:

Shots/Ft Top Formation Interval Cnt Type Perforations:

MISSION CANYON /ANHY/ POR 3 FT 352MSNC **JET** 4423 4422 -

MISSION CANYON /ANHY/ POR **JET** 3 FT 352MSNC 4424 -4425 MISSION CANYON /ANHY/ POR 2 FT 352MSNC 4427 **JET** 4426 -

#3996

Date: 10/9/2001 Time: 11:07 AM

4422 - 4427 1 Interval: Treatments: 120 GAL ACID Type: A Fluid: Additive: Prop Agent: Formation Break Down Pressure: Average Injection Rate: Remarks: Stages: Casing, Liner, Tubing 349 w/ 8 5/8 IN @ 175 sx Casing 200 sx 4 1/2 IN @ 4490 w/ Casing 4432 TUBING (a) Tubing 2 3/8 IN Formations and Logs Log# 1 A٧ @ Log # 2 IL**@**

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age code
GREENHORN	2293				LOG		603
MOWRY	25 78				LOG		602
FALL RIVER	2828				LOG		602
JURASSIC /SYSTEM/	3153				LOG		559
SPEARFISH	4005				LOG		469
RATCLIFFE	4194				LOG		353
FROBISHER	4301				LOG		353

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: P 100 BOPD 28.0 Grav, 2 BWPD GOR 150:1

Perfs: 4422-4423 (Madison)

Perfs: /2;

Perfs: 4424-4425 (Madison)

Perfs: /2;

Perfs: 4425-4427 (Madison)

Perfs: /2; Acidized overall;

Dst: None Cores: None

Dwights number: R8069960

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

E-Mail:

Agent Name:

Agent Remark:

Fax:

Agent Code:

Non-kota State Industrial Commiss. Oil and Gas Division

WELL COMPLETION REPORT SEE INSTRUCTIONS OTHER SIDE

P=	JUI: 10:	⊱
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	وي. منتست	مرستند

	oleum Corpor	ation	FIELD	Nohall		
STREET 500 Jefferson						
CITY Houston, Texas						
LEASE NAME Sam Simpson	et al		WELL N	02AC	RES IN UNIT_	80
LOCATION NE NE	secd	5 TWP	161 N	RGE 83 W ELEY	VATION 1602	WEXNE KB.)
PERMIT NO. 3887						19 <u> 65</u>
NUMBER OF CRUDE OIL PR	ODUCING WELL	.5 ON THIS	LEASE,	INCLUDING THIS	WELL 2	
		DATA O	N TEST			
DATE TEST COMMENCED	6-8 1a 651					HOUR 8 AM
LENGTH OF TEST	24		HOURS			MINUTES
FOR FLOWING WELL:			FOR PU	MPING WELL:		
FLOWING PRESSURE ON CS	.GI	BS./SQ. IN.	LENC	TH OF STROKE	· · · · · · · · · · · · · · · · · · ·	INCHES
FLOWING PRESSURE ON TH		LBS./SQ. IN.	NUM	BER OF STROKES	PER MINUTE_	
SIZE TBGIN.				KING BARRELS_	1-3/4	(SIZE IN.)
SIZE CHOKE IN. TY	YPE CHOKE	(POS.ADJ.)	67 7 5 7 10	. 2 -	, . IN NO ET	BUNN 6609
WAS THIS WELL FLOWED	DOD THE ENTER		OZ OE .	CUIS TEST WITH	TT THE USE	NON TTY
OTHER ARTIFICIAL DEVICE		RE DURAIT	ON OF	INIG TEST WITH	CI THE USE (JF SWAB OK
OTHER ARTIFICIAL DEVIC	E					
RESULT OF THIS TEST	(BBLS, NET OF	L PER 24 H	RS.)	202		
GAS-OIL RATIO OF TH						:
						i i
PERCENT WATER PRO	DUCED DURING	THIS TEST	T		26.80	<u> </u>
GRAVITY OF OIL PRO	DUCED DURING	THIS TES	T (CORA	ECTED TO 60° A.I	P.I.)	
NAME OF PIPE LINE OR OT				udo Ott Buraba	sing Co . Pos	-tel Pine Tine
IF SHOT: DATE. IF PERFORATED: NO. HOLES GEOLOGICAL FORMATION:	5 PER FT	4	NO. QTS IF ACID:	USED GALS. U	JSED 1000)
GEODOGICAL TORMATION	SHOT, PERFORA	ATED OR TI	REATED.	Canyon FR	ом 4390 гт.	то <u>4407.</u> ғт.
SHOOTING, PERFORATING C	SHOT, PERFORA OR TREATING CO	ATED OR TI OMPANY	REATED Lane	Canyon FR Wells & Dowell	ом <u> 4390 гт.</u> L	то <u> 4407 г</u> т.
SHOOTING, PERFORATING C DATE WELL COMPLETED	or treating co	OMPANY	REATED Lane HOUR W	Canyon FR Wells & Dowell ELL COMPLETED.	OM 4390 FT.	3:00 P.M
SHOOTING, PERFORATING CONTROL OF PAY 4390	or treating co	OMPANY	REATED Lane HOUR W	Vells & Dowell ELL COMPLETED.	OM 4390 FT.	TO 4407 FT.
SHOOTING, PERFORATING C DATE WELL COMPLETED	or treating co	OMPANY	REATED Lane HOUR W	Canyon FR Wells & Dowell ELL COMPLETED.	OM_4390_FT.	то <u>4407 г</u> т. 3:00 Р. _М
SHOOTING, PERFORATING C DATE WELL COMPLETED	OR TREATING CO	OMPANY	Lane	Wells & Dowell ELL COMPLETED.		то <u>4407 г</u> т. 3:00 Р. _М
SHOOTING, PERFORATING CONTROL WELL COMPLETED	OR TREATING CO	OMPANY	Lane HOUR W	Wells & Dowell ELL COMPLETED. 413 FI		то <u>4407 г</u> т. 3:00 Р. _М
SHOOTING, PERFORATING CONTROL WELL COMPLETED	OR TREATING CO	OMPANY	Lane HOUR W	Wells & Dowell ELL COMPLETED. 413 FI		то <u>4407 гт.</u> 3:00 Р. м
SHOOTING, PERFORATING CONTROL OF PAY 4390	OR TREATING CO 6-7 COTAL DEPTH OF	OMPANY	Lane HOUR W	Wells & Dowell ELL COMPLETED. 413 FT 411 F1	\. \.	то <u>4407 г</u> т. 3:00 Р. _М
SHOOTING, PERFORATING CONTROL WELL COMPLETED	OR TREATING CO 6-7 COTAL DEPTH O PLUG BACK DEC	FT.	Lane HOUR W 4 WHAT I	Wells & Dowell ELL COMPLETED. 413 FT 411 FI	\. \.	то <u>4407 г</u> т. 3:00 Р. _М
SHOOTING, PERFORATING CONTROL OF PAY 4390	OR TREATING CO 6-7 COTAL DEPTH O PLUG BACK DEC	FT.	Lane HOUR W 4 WHAT I	Wells & Dowell ELL COMPLETED. 413 FT 411 FI	\. \.	то <u>4407 г</u> т. 3:00 Р. _М
SHOOTING, PERFORATING CONTROL OF PAY 4390 TOP OF PAY 439	OR TREATING CO 6-7 OTAL DEPTH OF PLUG BACK DES Yes TA ON REVERSE Left in Well	FT. F WELL PTH CASING No. Secks	Lane HOUR W 4 WHAT I	Wells & Dowell ELL COMPLETED. 413 FT 411 F1 NTERVALS? M. Put in Well	4379-4413 Left in Well	3:00 P. M
SHOOTING, PERFORATING CONTROL WELL COMPLETED	PLUG BACK DEPLY ON REVERSE Left in Well Ft. In.	FT. F WELL PTH CASING No. Sacks Cement	Lane HOUR W 4 WHAT I HIS FOR RECORD	Wells & Dowell ELL COMPLETED. 413 FT 411 FI NTERVALS?	4379-4413	3:00 P. M
SHOOTING, PERFORATING CONTROL OF PAY 4390 TOP OF PAY 4390 WAS THIS WELL CORED? GIVE DRILL STEM TEST DATE Size Put in Well Ft. In. 8-5/8 319 6	PLUG BACK DENTAL ON REVERSE Left in Well Ft. In. 319 6	FT. F WELL. PTH CASING No. Sacks Cement 160	Lane HOUR W 4 WHAT I HIS FOR RECORD	Wells & Dowell ELL COMPLETED. 413 FT 411 F1 NTERVALS? M. Put in Well	4379-4413 Left in Well	3:00 P. M
SHOOTING, PERFORATING CONTROL WELL COMPLETED	PLUG BACK DEPLY ON REVERSE Left in Well Ft. In.	FT. F WELL PTH CASING No. Sacks Cement	Lane HOUR W 4 WHAT I HIS FOR RECORD	Wells & Dowell ELL COMPLETED. 413 FT 411 F1 NTERVALS? M. Put in Well	4379-4413 Left in Well	3:00 P. M
SHOOTING, PERFORATING CONTROL OF PAY 4390 TOP OF PAY 4390 WAS THIS WELL CORED? GIVE DRILL STEM TEST DATE Size Put in Well Ft. In. 8-5/8 319 6	PLUG BACK DENTAL ON REVERSE Left in Well Ft. In. 319 6	FT. F WELL. PTH CASING No. Sacks Cement 160	Lane HOUR W 4 WHAT I HIS FOR RECORD Size	Wells & Dowell ELL COMPLETED. 413 F1 411 F1 NTERVALS? M. Put in Well Ft. In.	4379-4413 Left in Well Ft. In.	No. Sacks Cement
SHOOTING, PERFORATING CONTROL OF PAY 4390 TOP OF PAY 4390 WAS THIS WELL CORED: GIVE DRILL STEM TEST DATE Size Put in Well Ft. In. 8-5/8 319 6 4-1/2 4413 0	PLUG BACK DENTAL ON REVERSE Left in Well Ft. In. 319 6	FT. F WELL. PTH CASING No. Sacks Cement 160	Lane HOUR W 4 WHAT I HIS FORR RECORD Size	Wells & Dowell ELL COMPLETED. 413 FT 411 FI NTERVALS? M. Put in Well Ft. In.	4379-4413 Left in Well Ft. In.	No. Sacks Cement
SHOOTING, PERFORATING CONTROL OF PAY 4390 TOP OF PAY 439	OR TREATING CO 6-7 COTAL DEPTH OF PLUG BACK DEPTH OF Yes TA ON REVERSE Left in Well Ft. In. 319 6 4413 0	FT. F WELL PTH CASING No. Secks Cement 160 100	Lane HOUR W 4 WHAT I HIS FOR RECORD Size	Wells & Dowell ELL COMPLETED. 413 FT 411 FI NTERVALS? M. Put in Well Ft. In. Quintans Petro (Comp.)	Left in Well Ft. In.	No. Sacks Cement
SHOOTING, PERFORATING CONTROL OF PAY 4390 TOP OF PAY 439	OR TREATING CO 6-7 COTAL DEPTH OF PLUG BACK DEPTH OF Yes TA ON REVERSE Left in Well Ft. In. 319 6 4413 0	FT. F WELL PTH CASING No. Secks Cement 160 100	Lane HOUR W 4 WHAT I HIS FOR RECORD Size	Wells & Dowell ELL COMPLETED. 413 FT 411 FI NTERVALS? M. Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
SHOOTING, PERFORATING COUNTY OF HARTIS	PROTAL DEPTH OF COTAL DEPTH OF COTAL DEPTH OF LEft in Well Ft. In 19 6 4413 G	OMPANY 19 65 FT. F WELL PTH CASING ! No. Sacks Cement 160 100	Lane HOUR W 4 WHAT II HIS FOR RECORD Size	Wells & Dowell ELL COMPLETED. 413 FT 411 F1 NTERVALS? M. Put in Well Ft. In. Quintans Petro (Comp.) Signature)	Left in Well Ft. In.	No. Sacks Cement
SHOOTING, PERFORATING COUNTY OF HAITIS Before me the undersigned gut to be the person whose name	PREATING CO 6-7 POTAL DEPTH OF COTAL DEPTH OTAL DEPTH OF COTAL DEPTH OTAL DEPTH OF COTAL DEPTH OF COTAL DEPTH OF COTAL DEPTH OF COTAL DEPTH OTAL DE	OMPANY 19 65 FT. F WELL PTH CASING No. Sacks Cement 160 100 19. day personal: the above in:	Lane HOUR W 4 WHAT I HIS FOR RECORD Size 65.	Wells & Dowell ELL COMPLETED. 413 FI 411 FI WITERVALS? M. Put in Well Ft. In. (Complete Complete	Left in Well Ft. In. Otsum Corpors any or Operator) (1) Breckel duly sworn on o	No. Sacks Cement Supt. Fitle) known to me ath states that
SHOOTING, PERFORATING CONTROL OF PAY 4390 TOP OF PAY 4390 WAS THIS WELL CORED: GIVE DRILL STEM TEST DATE Size Put in Well Ft. In. 8-5/8 319 6 4-1/2 4413 0 EXECUTED THIS 14 DATE STATE OF Texas COUNTY OF Harris Before me the undersigned auto be the person whose name he is authorized to make this results.	PLUG BACK DESTA ON REVERSE Left in Well Fit. In. 319 6 4413 G Y OF June thority, on this constraint is subscribed to the eport and has kn	OMPANY 19 65 FT. F WELL PTH SIDE OF TI CASING No. Sacks Cement 160 100 19. day personal: the above insowledge of ti	Lane HOUR W 4 WHAT I HIS FOR RECORD Size 65.	Wells & Dowell ELL COMPLETED. 413 FI 411 FI WITERVALS? M. Put in Well Ft. In. (Complete Complete	Left in Well Ft. In. Otsum Corpors any or Operator) (1) Breckel duly sworn on o	No. Sacks Cement Supt. Fitle) known to me ath states that
SHOOTING, PERFORATING COUNTY OF HAITIS Before me the undersigned gut to be the person whose name	PLUG BACK DESTA ON REVERSE Left in Well Fit. In. 319 6 4413 G Y OF June thority, on this constraint is subscribed to the eport and has kn	OMPANY 19 65 FT. F WELL PTH CASING No. Sacks Cement 160 100 19. day personal: the above in:	Lane HOUR W 4 WHAT I HIS FOR RECORD Size 65.	Wells & Dowell ELL COMPLETED. 413 FI 411 FI NTERVALS? M. Put in Well Ft. In (Comp. (Comp. Signature) ed	Left in Well Ft. In. Otsum Corpors any or Operator) (1) Breckel duly sworn on o	No. Sacks Cement Supt. Fitle) known to me ath states that
SHOOTING, PERFORATING CONTROL OF PAY 4390 TOP OF PAY 4390 WAS THIS WELL CORED: GIVE DRILL STEM TEST DATE Size Put in Well Ft. In. 8-5/8 319 6 4-1/2 4413 0 EXECUTED THIS 14 DATE STATE OF Texas COUNTY OF Harris Before me the undersigned auto be the person whose name he is authorized to make this results.	PLUG BACK DESTA ON REVERSE Left in Well Fit. In. 319 6 4413 G Y OF June thority, on this constraint is subscribed to the eport and has kn	OMPANY 19 65 FT. F WELL PTH SIDE OF TI CASING No. Sacks Cement 160 100 19. day personal: the above insowledge of ti	Lane HOUR W 4 WHAT I HIS FOR RECORD Size 65.	Wells & Dowell ELL COMPLETED. 413 FI 411 FI NTERVALS? M. Put in Well Ft. In (Comp. (Comp. Signature) ed	Left in Well Ft. In. Otsum Corpors any or Operator) (1) Breckel duly sworn on o	No. Sacks Cement Supt. Fitle) known to me ath states that
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10/9/2001 Date: 11:06 AM Time:

2 SAM SIMPSON ETAL

NORTH DAKOTA State: BOTTINEAU County:

OUINTANA PET CORP Operator:

33009008860000 API:

D Initial Class:

Target Objective:

Final Well Class: DO OIL

Status:

MOHALL Field:

on SEP 15, 1972 3887 Permit:

Abandonment Date: 3875 Formation: MADISON

4450 Projected TD:

Hole Direction: Top Form Gas Water Oil IP Summary:

MISSION CANYON /ANHY/ PORO/ 87 BPD

IC:

Location

N 83 W 161 Section, Twp., Range:

NE NE Spot Code:

CONGRESS SECTION 660 FEL Footage NS, EW: 660 FNL

Surface remark:

5TH PRINCIPAL MRD Principal Meridian:

> 48.8048000 / -101.4772600 US Lat/Long:

PBHL:

PHBL remark:

ABHL:

ABHL remark:

TVD: From Surface: ABHL:

Dates and Depths

Spud Date Code: MAY 06, 1965 Spud:

TD: 4413 on 4415 LTD:

4411 PlugBack Depth: JUN 07, 1965 Completed:

Name: MADISON Formation @ TD: 359MDSN

1602 KB Ref. Elevation: 1602 KB. Elevation: 1593 GR Ground Elevation:

CARDINAL DRILLING Contractor: Rig#

Rig Release Date:

IP# 001

MISSION CANYON /ANHY/ PORO/ Top Formation:

MISSION CANYON /ANHY/ PORO/ Base Formation:

Condst: 87 BPD Oil: Water: Gas:

Method: PUMPING 4390 - 4407 Interval:

Choke: 24 Hours Duration of Test: GOR: 255 26.8 Gravity: Oil:

PERF Prod Method:

Top Formation Cnt Type Shots/Ft Perforations: Interval

MISSION CANYON /ANHY/ POR 4 FT 352MSNC 4390 -4407

4390 - 4407 Į Interval: Treatments:

1 of 4

10/9/2001 Date: Time: 11:06 AM

Fluid:

1000 GAL

ACID

Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate: Stages:

Remarks:

14

DST # 001

Show:

Formation: MADISON

4375 - 4400

BHT

Interval: Choke:

Top:

Bottom:

1 Recovery: 2 1810 FT **GCO** FT xw10

Rec Method: PIPE Rec Method: PIPE

Recovery: Mat'ls to Surface:

GAS

Pressures and Times:

Hydro

Final

Init Flow Init Final

Final Flow lnit Final 162 626

Shut-in Final Init 1926 1824

Open Time Init Final 120 Shut-in Time Init Final 100 60

lnit 2379 2392 Dst Test Remark:

IMMED STRONG BLOW

Core Id: 001

Formation:

352MSNC

MISSION CANYON /ANHY/ PORO/ FT

Interval:

4379 - 4401

Rec: 18

Core Type:

CONV

Show Type: OIL

Description:

INTERVAL IS 4379-4400 1/2

2 SS, FINE-GRAINED, ANGULAR, CEMENTED WITH PALE

GREEN MARLY DOLO, TIGHT

3 SS, STREAKS VERY LOOSELY CEMENTED, FRIABLE PROBABLY FAIR GRN PORO IN THESE STREAKS, GOOD BROWN STAIN, GOOD ODOR, MAJORITY OF THIS FT IS TIGHT

20% STAINED

1 DOLO, PALE GREEN, MARLY, TIGHT, 1/2 FT SPOTTY POOR VUGGY PORO, PARTLY FILLED W/PYRITE, PARTLY FILLED W/

SILT-SIZE DOLO, WELL-STAINED, POSSIBLY POOR PAY

1 DOLO, PALE GREEN, MARLY, TIGHT, NO SHOW

1 DOLO, SILT-SIZED, ALMOST 100% STAINED, FRIABLE PROBABLY FAIR-GOOD GRN PORO, GOOD ODOR, GOOD SHOW 1 DOLO, AS ABOVE BUT MANY PHENOCRYSTS DARK BROWN

ANHY & INCLUSIONS GRANULAR WHITE TRANSLUCENT ANHY

30-50% PAY

1 SS, MEDIUM-GRAINED, ANGULAR, CEMENTED W/WHITE MARLY

DOLO, QUARTZITIC, TIGHT

1 LS, PALE GREEN, MARLY, STREAKS, FAIR-GOOD VUGGY PORO, PARTLY FILLED W/PYRITE, PARTLY FILLED W/SILT-

SIZED DOLO CRYSTALS, WELL-STAINED, 10% PAY

1 LS, PALE GREEN, MARLY, MANY BLOATING TAN PELLETS TIGHT, NO SHOW

1 LS, AS ABOVE BUT NO PELLETS

1 LS, LIGHT TAN, PELLETOID, POORLY SORTED, EXCELLENT SMALL TO LARGE VUGGY PORO, VUGS SLIGHTLY FILLED W/PYRITE & SILT-SIZED DOLO, COMPLETELY STAINED, BUT

NOT BLEEDING, PROBABLY EXCELLENT PERM

1 LS, AS ABOVE BUT FEW VUGS W/FREE OIL, PERM MAY BE

LESS

2 LS, AS 4392-4393, MAY BE TRACE OF ANHY CMT 1 LS, EXCELLENT PORO, SOME PELLETS VERY LARGE

2 of 4

#3875

Date: 10/9/2001 Time: 11:06 AM

Core Id: 002

Formation:

352MSNC MISSION CANYON /ANHY/ PORO/

Interval:

4401 - 4413

Rec: 11.5

Core Type:

CONV

Show Type: OIL

Description:

INTERVAL IS 4400 1/2-4413

1/2 LS, WHITE, FINELY CRYS, FEW FLOATING PELLETS & TRACES GHOST PELLETOID STRUCTURE, POOR-FAIR SMALL VUGGY PORO, WHERE PERM PRESENT, VUGS STAINED BROWN

TRACE LIVE OIL IN FEW VUGS, STREAKS ARE DOLO

SUCROSIC, EVENLY STAINED, EXCELLENT VUGGY & INTERXLN

PORO

1 LS, LIGHT TAN, PELLETOID, POORLY SORTED, FAIR TO GOOD INTERPELLETOID & SMALL VUGGY PORO, GOOD EVEN STAIN

1 LS, EXCELLENT INTER-PELLETOID PORO, INCLUSIONS CLEAR ANHY

1 LS, PORO REDUCED TO GOOD BY STREAKS LS, MARLY WHITE, TIGHT

1 LS, EXCELLENT PORO, STAIN

1 LS, PORO REDUCED TO FAIR TO GOOD BY STREAKS LS

MARLY, WHITE, TIGHT

I LS, WHITE, FINELY CRYS, TIGHT, NO SHOW, STREAKS HAVE RELICT PELLETOID STRUCTURE, POOR SMALL VUGGY

PORO, STAIN IN VUGS

1 LS, AS ABOVE, STREAKS DOLO SUCROSIC, GOOD IXLN PORO, EXCELLENT STAIN, 1/2 FT DOLO, LIGHT GREY FINELY CRYS, HARD & TIGHT, CONCHOIDAL FRACTURE 1 DOLO, TIGHT, AS ABOVE, TAN, ANHY, STREAKS ARE FRIABLE, PROBABLY EXCELLENT IXLN PORO, EXCELLENT

STAIN

1 LS, CREAM-COLORED, DOLO, FINELY CRYS, GHOST

PELLETOID TEXTURE

1 DOLO, TAN, FINELY CRYS, TIGHT, EXCEPT STREAKS ARE

SUCROSIC, FAIR IXLN PORO, EVENLY STAINED

1 LS, TAN, FINELY CRYS TO MARLY, INTERMIXED W/ANHY

WHITE, FINELY CRYS, VERY TIGHT

Casing, Liner, Tubing

Casing 8 5/8 IN @ 319 w/ 160 sx Casing 4 1/2 IN @ 4413 w/ 100 sx

Drilling Journal

	Obs.	#	In	ters	/al	Ty;	pe		Form	Sample
Show	1		4375	-	4400	0&	έG		359MDSN - 359MD	SN
Show	2		4379	-	4401	OΠ	L		352MSNC - 352MS	NC
Show	3		4401	-	4413	OII	Ĺ.		352MSNC - 352MS	NC
Porosity 2	Zones	ID	7	Гор	-	Base	Type	Quality	Form code Thickn	ess
•		1	4	384	-	4385	VUG	P	352MSNC	
		2	4:	386	-	4388	IGRN	G	352MSNC	
		3	4:	389	_	4390	VUG	G	352MSNC	
		4	4:	392	-	4397	VUG	G	352MSNC	
		5	4	400	_	4402	VUG	F	352MSNC	
		6	4	402	-	4402	INST	G	352MSNC	

3875

Date: 10/9/2001 Time: 11:06 AM

Formations and Logs

Log#	1	IL	@	320 -	4415
Log#	2	ΑV	@	3411 -	4411
Log#	3	CA	@	-	

Top Formation	Measured	Тор	Base	Base	Source	Lith-	Age
	Depth	TVD	Depth	TVD		ology	code
GREENHORN	2252				LOG		603
DAKOTA	2782				LOG		602
SPEARFISH	3918				LOG		469
CHARLES /SALT/	4149				LOG		353
MIDALE /ANHY/	4212				LOG		353
STATE A			4293		LOG		352

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: P 202 BOPD 26.8 Grav, 11 BWPD GOR 255:1

Perfs: 4390-4407 (Madison)

Perfs: Acidized;

Dst: #1 4375-4400

Dst: , SI/1 hr, op 2 hrs, SI/1 hr & 41 min, GTS 14 min, rec 1810' GCO, 10'

Dst: SW, FP 162-626#, SIP 1926-1824#, HP 2392-2379#

Cores: #1 4379-4413

Cores: no details available

Dwights number: R8068750

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

E-Mail:

Agent Name:

Agent Remark:

Fax:

Agent Code:

No Dakota State Industrial Commic Oil and Gas Division

WELL COMPLETION REPORT

ATTAN . MAN											77 2'''
UPERATOR	vintana	Petrole	um Car	<u>tporation</u>	FIELD	Mohell	1.4		5 % 5	mz,	#375
STREET 5	00 Jeff	erson Bl	de.	<u> </u>	POOLM	ission	Canyon				_
				STATE							_
LEASE NAME 8											_
LOCATION NE	4, SE/4		SEC	6 TWP	161 N R	5 <u>r.83 t</u>	LELEV	ation16	141	ЭТ, "от, КВ	.)
PERMIT NO37			CORO	OTHER LOG	S RUN?	IES: 0	R=Somic	<u>.</u>	12/14	19 64	
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date test com Length of tes											
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FLOWING PRESS			1					_		News	5
FLOWING PRESS		•									
SIZE TBG											
SIZE CHOKE	IN :	гүрв сно	KE	_(POS.ADJ.)							•
SHUT IN PRESSU	RE				SIZE TBG.			IN. NO). FT. I		_
WAS THIS WELL	FLOWER	FOR TH	E ENII	RE DURATI	ON OF TH	IS TEST	witho	UT THE	JSE OF	SWAB O	R
OTHER ARTIFICI	AL DEVI	CE?									
ſ 	· · ·								z-		-
RESULT OF	THIS TES	T (BBLS.	NET OI	L PER 24 H	RS.) Swab	bed at	the ra	_	-		:
											i
GAS-OIL RA									BBL O	F OIL)	
PERCENT W.	ATER PR	ODUCED I	DURING	THIS TES	T6_	10%					
GRAVITY OF	OIL PRO	ODUCED I	DURING	THIS TES	t (CORREC	TED TO	1 60 - A P	rı 28.	20		
											i
F PERFORATED; EOLOGICAL FO	NO. HOLI	ES PER FI	r <u>-</u>	4 jets	NO. QTS. T IF ACIDIZE REATED	D. NO.	GALS. U	SED 1, M 4421	000 FT. TO	4433 b ry	- - ·,
SEOLOGICAL FO: SHOOTING, PERFO DATE WELL COM	NO. HOLI RMATION DRATING PLETED_	ES PER FI SHOT, PI OR TREAT 12/26	ERFORA	4 jets ATED OR T OMPANY 19 64	IF ACIDIZE REATED	D: NO Mission Canyon ls: Dom	GALS. U FRO	M 4421 4428	FT. TO	4433 5 -1	
SEOLOGICAL FO: SHOOTING, PERFO DATE WELL COM	NO. HOLI RMATION DRATING PLETED_	ES PER FI SHOT, PI OR TREAT 12/26	ERFORA	4 jets ATED OR T OMPANY	IF ACIDIZE REATED	D: NO Mission Canyon ls: Dom	GALS. U FRO	M 4421 4428	FT. TO	4433 5 -1	
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SECOLOGICAL FOR SHOOTING, PERFORMANCE WELL COMPOSED FOR PAY WAS THIS WELL. SIZE Put For	NO. HOLIRMATION DRATING PLETED CORED: TEST DA N Well In. 0 0 29th DA as ersigned a hose name	SHOT, PI SHOT, PI OR TREAT 12/26 4421 TOTAL DI PLUG BA ATA ON RI Left in Ft. 370 4519 AY OF Is subscrit, o	ERFORATING C EPTH C CK DE EVERSE Well In 0 0 Decemb	ATED OR TOMPANY	IF ACIDIZ: REATED Lane-Wal Lan	Pat in Ft.	GALS. U FRO FRITED FT. FT. Well In. Well Compared Compared by me do	Left in Ft. Left in Ft. A4413' Left in Ft.	Well In.	No. Sacks Cement	
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10/9/2001 Date: Time: 11:06 AM

1 SIMPSON

State: NORTH DAKOTA County: BOTTINEAU

Operator: QUINTANA PET CORP

API: 33009008480000

Initial Class:

Target Objective:

Final Well Class: DO

> Status: OIL Field: **MOHALL**

Permit: 3769 #3757

on SEP 15, 1972

Projected TD: 4600 Formation: MADISON

Hole Direction:

IP Summary: Oil Gas Water Top Form

112 BPD

12 BBL MISSION CANYON /ANHY/ PORO/

IC:

Abandonment Date:

Location

Section, Twp., Range: 161 N 83 W

> Spot Code: NE SE

Footage NS, EW: 1980 FSL 660 FEL CONGRESS SECTION

Surface remark:

Principal Meridian: **5TH PRINCIPAL MRD**

> Lat/Long: 48.7976700 / -101.4772400 US

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface: TVD:

Dates and Depths

Spud: DEC 02, 1964 Spud Date Code:

4520 on TD: LTD: 4519

PlugBack Depth: 4484

Completed: JAN 17, 1965

Formation @ TD: Name: MISSION CANYON /ANHY/ PORO/ 352MSNC

Ref. Elevation: 1614 KB KB. Elevation: 1614 Ground Elevation: 1604 GR

Contractor: CALVERT DRILLING COMPANY

Rig Release Date: Rig#

IP# 001

Top Formation: MISSION CANYON /ANHY/ PORO/

MISSION CANYON /ANHY/ PORO/ Base Formation:

> Oil: 112 BPD Condst:

Gas: Water: 12 BBL

Method: PUMPING Interval: 4421 - 4434 GROSS

Duration of Test: Hours. Choke:

Oil: Gravity: 28.2 GOR:

Prod Method: PERF

Perforations: Interval Cnt Type Shots/Ft Top Formation

4421 -4422 4 FT 352MSNC

MISSION CANYON /ANHY/ PORC 4427 -4434 4 FT 352MSNC MISSION CANYON /ANHY/ PORC

#3757

Date: 10/9/2001 Time: 11:06 AM

Treatments:

Interval:

S

4421 - 4434

Fluid:

1000 GAL

ACID

Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate: Stages:

Remarks:

DST # 001

Core Id:

Show:

Formation: MISSION CANYON /ANHY/ PORO/

Interval:

4408 - 4440

BHT

Choke:

Top:

Bottom:

Recovery: 1 Recovery: 2 2162 FT GCO 120 FT $\mathbf{X}\mathbf{W}$

19

Rec Method: PIPE

Mat'ls to Surface: GAS

Rec Method: PIPE

Pressures and Times:

Hydro Init Final

Init Flow **Init** Final

Final Flow Init Final 206 888

Shut-in Init Final 1987 1845

Open Time Init **Final**

240

Shut-in Time Init Final

60

Sample

W

60

2375 2350

001

Formation:

352MSNC

MISSION CANYON /ANHY/ PORO/ 4413 - 4440

Rec: 26

FT

Interval: Core Type: Description:

CONV Show Type: OSTN 6 SS, GREY, ANHY, SLI DOLO, TIGHT

2 DOLO, GREEN, SANDY, TIGHT

4 DOLO, PYRITIC, GREY, STREAKS FAIR-GOOD PORO, GOOD

OSTN

8 LM, PELLETOIDAL, GOOD-EXCELLENT PORO, GOOD OSTN 3 DOLO, FINE CRYS, SPOTTY GOOD PORO, GOOD OSTN 3 LM, PELLETOIDAL, POOR-GOOD PORO, GOOD OSTN

Casing, Liner, Tubing

Casing Casing 8 5/8 IN @ 4 1/2 IN @

370 w/ 4519 w/

210 sx 200 sx

Tubing

Obs. #

2 3/8 IN

Quality

G

4478 TUBING

Drilling Journal

Show 2 Show 1 **Porosity Zones** 4408 - 4440 4413 - 4440

Interval

Top -

O&G OSTN Base

4440

Type

INST

Type

352MSNC - 352MSNC 352MSNC - 352MSNC

Form code Thickness 352MSNC

Form

ID 4413 Wellsite Geologist JOHN DYER

Formations and Logs

Top Formation Measured Тор Base Base Source Lith-Age Depth TVD Depth TVD ology code **GREENHORN** 2256 LOG 603 DAKOTA 2785 LOG 602 **SPEARFISH** 3931 LOG 469 CHARLES /SALT/ 4172 LOG 353 MIDALE /ANHY/ 4239 LOG 353 MISSION CANYON /ANHY/ PO 4413 LOG 352 STATE A 4321 LOG 352

#3757

Date: 10/9/2001 Time: 11:06 AM

Dwights Energydata Narrative

Accumulated through 1997

IP: 112 BOPD 28.2 Grav, 12 BWPD erfs: 4421-4422 (Madison)

Perfs: 4421-4422 (Madison

Perfs: /2;

Perfs: 4428-4429 (Madison)

Perfs: /2;

Perfs: 4432-4433 (Madison)

Perfs: /2;

Perfs: 4433-4434 (Madison)

Perfs: /2; A overall/500 GBDA;

Perfs: 4427-4428 (Madison)

Perfs: /4;

Perfs: 4429-4432 (Madison)

Perfs: /4;

Perfs: 4433-4434 (Madison)

Perfs: /4; A 4427-4434/550 GBDA;

Dst: #1 4408-4440

Dst: , SI/1 hr, op 4 hrs, SI/1 hr, rec 2162' GCO, 120' SW, FP 206-888#, SIP

Dst: 1987-1845#, HP 2375-2350#

Cores: #1 4413-4440

Cores: rec 26': 6' sd, gry, anhy, sli dolo, tite; 2' dolo, grn,

Cores: sdy, tite; 4' dolo, pyr, gry, strks fair to gd por, gd oil stn; 8' li, pell, gd to excl por, gd oil stn; 3' dolo, f-xln, sptty gd por; 3' li,

Cores: pell, poor to gd por, gd oil stn; (1' lost);

Dwights number: R8067570

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone: Fax:

E-Mail:

Agent Name: Agent Code:

Agent Remark:

North Dakota Industrial Comission //ED Oil and Gas D(vistor // D. OIL GA 900 Fast Blvd., Bismarck, North Dakota 1300 PLUGGING RECORD



OPERATOR	Gofor Oil, Inc.	F	ielo <u>M</u>	ohall $-D^{*}$	√P	ool Madis	on
LEASE NAME_	Brendell	well no	‡ 1	NE SEC.	1 IWP.	161	RGE. 84
	Renville						
DATE PLUGĞER	5/8/84	, 19, DII	RECT CORR	ESPONDENCE TO:	Earl Sch	wartz	
STREET	Box 853		CITY_	Kenmare		STATE North	n Dakota
ELECTRIC OR	CTHER LOGS RUN? Dua	l Laterolog		NO. OF DS	TS RUN	0	(see back)
WAS WELL COR	ED? Yes	.	:	NTERVALS CORED	4492'-4	512'	·
WAS THE WELL	FILLED WITH MUD LADEN	FIUD?	Yes	M	ud weight	10.1	#/GAL
WELL RECORD					,	 , 	
		CASING			PLUGS		CEMENT
SIZE	DEPTH SET	WEIGHT #/	FI				
8 5/8"	454	24≠		0	Rdy Mix/Sur		
					Rdy Mix/ 4	92 ' 50	
					Rdy Mix/20	35	
					Rdy Mix/28	10' 35	
	-\			···	Rdy Mix/39	95' 35	—— — ————
<u> </u>	1						
					Rdy Mix/42	65 1 35	
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REMARKS:			<u>-</u>				
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						No	
WAS NOTICE G	IVEN BEFORE PLUCGING,	IO ALL AVAILABI	NE ADDOIN	INC LEASE AND	LAND OWNERS:	140	
	10+	Secondary		64	-Cofor Oil	? Inc	
Executed thi	s 19th day o	= December		, 19 <u>.54</u>	730101 OI	1, 11,0	<u> </u>
					11 21	Compayly ,p= Op	eracor)
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		fi.	Α		Mund.	Shain	q
		! \	/ } =	_	(Signature)		→ (Title)
STATE OF NO	rth Dakota)	· ·		Da	an L. Schwar	rtz	Geologist
	·						•
COUNTY OF	Ward						
	e undersigned authorit	ur on this day	- Deveope	Ili coresped F	land I Schura	rtz	l===
							known :
	person whose name is						
he is author	rized to make this rep	ort and has kn	owledge :	of the facts so	tated herein a	nd that said	repart is true a-
correct.							
			20		\sim		6 .7
Subscribed as	nd sworn to before me	this the	⊶ < ∪	day of	Dec		, 1984
				_	Oin How	de Pet Ca	2
Mill Manual Control	n expires <u>Dec</u> S	1945	Mas	Public in and	7		
Ty COMMISSIO	a expires / /E.C.	1100	Notary	rootic in and	ior Country	OT MOTO	

Date: 9/27/2002 Time: 11:02 AM

1 BRENDEL

State: NORTH DAKOTA

County: RENVILLE

Operator: GOFOR OIL CO INC

API: 33075010180000

Initial Class: D

Target Objective: OIL Final Well Class: D

Status: D&A

Field: MOHALL

Permit: 11054 on JUL 20, 1984

Abandonment Date:

US

IC:

Projected TD: 4700

Formation: MADISON

Hole Direction: VERTICAL

Location

Section, Twp., Range: 1 161 N 84 W

Spot Code: SW NE SE

Footage NS, EW: 1940 FSL 710 FEL CONGRESS SECTION

Surface remark:

Principal Meridian: 5TH PRINCIPAL MRD

Lat/Long: 48.7976000 / -101.4990900

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface: TVD:

Dates and Depths

Spud: JUL 30, 1984 Spud Date Code:

TD: 4512 on

LTD:

PlugBack Depth:

Completed: AUG 10, 1984

Formation @ TD: 359MDSN Name: MADISON

Ref. Elevation: 1611 KB KB. Elevation: 1611 Ground Elevation: 1599 GR

Contractor: DAKOTA DRILLING

Rig Release Date: Rig #

Core Id: 001

Formation: 352MHLL MOHALL

Interval: - Rec: 0 FT

Core Type: CONV Show Type:

Casing, Liner, Tubing

Casing 8 5/8 IN @ 454 w/ sx

Drilling Journal

Narrative: AUG 10, 1984 DRLG(DEPTH NOT RPTD-TITE HOLE)

Narrative: DEC 12, 1984 HOLDING FOR DATA

Lease Acres: 80

Formations and Logs

Log # 1 LLD @

Log # 2 GR @

Date: 9/27/2002 Time: 11:02 AM

Formations and Logs

Top Formation	Measured	Тор	Base	Base	Source	Lith-	Age
·	Depth	TVD	Depth	TVD		ology	code
DAKOTA	2811				LOG		602
PIPER /LM/ SD/ SH/	3735				LOG		552
SPEARFISH	40 15				LOG		469
CHARLES /SALT/	4301				LOG		353
Projekto Proposidata Nappativa							

Dwights Energydata Narrative

Accumulated through 1997

Dst: None

Dwights number: R1386590

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone: Fax:

E-Mail:

Agent Name: Agent Code:

Agent Remark: EARL SCHWARTZ;PRES;;;;;;

FORM 6

No Dakota State Industrial Common Oil and Gas Division

DEGETVEDO	
ALLES - 1 Sal Saver # 3714	,

	WELL COMPLETION REPORT SEE INSTRUCTIONS OTHER SIDE	Muse the second and Survey of
OPERATOR Quintana Petroleu	m Corporation FIELD Mohall	
	g. POOL Mission Canyon	
	STATE Texas COUN	
LEASE NAME Rhoda Racke -+ s	WELL NO. 1	CRES IN UNIT80
LOCATION SW. NE	SEC. 6 TWP 161 N RGE 83 W EL	
4 of 1 Section	TES CB-S	10/26 6/
	OR OTHER LOGS RUN? IES, GR-S	
NUMBER OF CRUDE OIL PRODUCING	WELLS ON THIS LEASE, INCLUDING TH	IS WELL A
10/20	DATA ON TEST	10/20 744 7 4
	HOURS	
FOR FLOWING WELL:	FOR PUMPING WELL:	
	225 LBS/SQ. IN. LENGTH OF STROKE	- ואכאדה
	50 LBS/SQ. IN. NUMBER OF STROKE	
SIZE CHOKE 24/64 IN TYPE CHO	WORKING BARRELS. KEAdj. (POS.ADJ.)	, , , , , , , , , , , , , , , , , , ,
SHUT IN PRESSURE 400#/in2	SIZE_TBG2-3/8"	IN. NO. FT. RUN 4465
WAS THIS WELL FLOWED FOR THE	ENTIRE DURATION OF THIS TEST WITH	
OTHER ARTIFICIAL DEVICE?		
RESULT OF THIS TEST (BBLS.)	NET OIL PER 24 HRS.) 298-	
t to the second	IS Not Available (CU FT O	F GAS PER BBL. OF OIL)
PERCENT WATER PRODUCED I	OURING THIS TEST	
GRAVETY OF OH PRODUCED I	OURING THIS TEST (CORRECTED TO 60° A	. P. t. 28.20 :
GRAVITI OF OIL FRODUCED 1	CRING INIS TEST (CORRECTED TO WE A	
NAME OF PIPE LINE OR OTHER CAR	RIFR USCOP: Portal Pipe Line	
	NO. QTS. USED	<u>*</u>
IF PERFORATED: NO. HOLES PER FT	4	USED 800
IF PERFORATED: NO. HOLES PER FT	4 IF ACIDIZED NO GALS.	USED 800 ROM 4410 FT. TO 4429 FT.
IF PERFORATED: NO. HOLES PER FT GEOLOGICAL FORMATION SHOT, PE	4 IF ACIDIZED NO GALS. AFORATED OR TREATED Canyon F TING COMPANY Lane-Wells	ROM 441D FT. TO 4429 FT.
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10/9/2001 Date: 11:06 AM Time:

1 RACKE ETAL

State:

NORTH DAKOTA BOTTINEAU

County:

OUINTANA PET CORP

Operator:

API:

33009008350000

WO

Initial Class:

Target Objective:

WOE Final Well Class:

> OIL Status:

MOHALL Field:

3726 Permit:

on SEP 15, 1972

#3714

Projected TD:

4600

Formation: MADISON

Hole Direction:

IP Summary:

Oil 313 BPD Gas

Water

Top Form

IC:

MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range:

6

83 W 161 N

C SW NE

1980 FNL

1980 FEL

CONGRESS SECTION

Abandonment Date:

Footage NS, EW: Surface remark:

Spot Code:

Principal Meridian:

5TH PRINCIPAL MRD

Lat/Long:

48.8012300 / -101.4827300

US

PBHL:

PHBL remark:

ABHL:

ABHL remark:

From Surface:

TVD:

ABHL: Location Narrative:

Type

Remark

SCALED_FOOT

REGULATORY

IRREG SECT

N

Dates and Depths

Spud:

OCT 12, 1964 4519 on

Spud Date Code:

TD: LTD:

PlugBack Depth:

Completed:

OCT 29, 1964

Formation @ TD:

359MDSN

Name: MADISON

1618 KB

Ref. Elevation: KB, Elevation:

1618

Ground Elevation:

1608 GR

Contractor:

CALVERT DRILLING COMPANY

Rig Release Date:

Rig#

IP# 001

Top Formation:

MISSION CANYON /ANHY/ PORO/ MISSION CANYON /ANHY/ PORO/

Base Formation: Oil:

313 BPD

Condst:

Gas:

Water:

Interval:

4410 - 4429

GROSS

Method: FLOWING

Duration of Test:

14 Hours

Choke: 24/64

Oil:

Gravity: PERF

28

GOR:

Prod Method: Pressures:

FTP: 50

l of 5

SITP:

3714

10/9/2001 Date: Time: 11:06 AM

SICP: FCP: Top Formation Shots/Ft Cnt Type Interval Perforations: MISSION CANYON /ANHY/ PORC 4 FT 352MSNC 4415 4410 -MISSION CANYON /ANHY/ PORC 4 FT 352MSNC 4429 4417 -4410 - 4415 Interval: 1 Treatments: ACID Type: A Fluid: Additive: Prop Agent: Formation Break Down Pressure: Average Injection Rate: Remarks: Stages: 4417 - 4429 Interval: 2 Treatments: ACID Type: A Fluid: Additive: Prop Agent: Formation Break Down Pressure: Average Injection Rate: Remarks: Stages: MISSION CANYON /ANHY/ PORO/ Top Formation: MISSION CANYON /ANHY/ PORO/ Base Formation: Condst: 20 BPH Oil: Water: Gas: Method: FLOWING 4410 - 4429 GROSS Interval: Choke: Hours Duration of Test: GOR: Gravity: Oil: PERF Prod Method: MISSION CANYON /ANHY/ PORO/ Perforations: 352MSNC Shots/Ft: 4 4410 - 4415 Perf Interval: MISSION CANYON /ANHY/ PORO/ 352MSNC Perforations: Shots/Ft: 4 4417 - 4429 Perf Interval: 4410 - 4415 100 Interval: Treatments: **ACID** Type: A 250 GAL Fluid: Additive: Prop Agent: Formation Break Down Pressure: Average Injection Rate: Stages: Remarks: 4417 - 4429 Interval: 101 Treatments: **ACID** Type: A 500 GAL Fluid: Additive: Prop Agent: Formation Break Down Pressure: Average Injection Rate: Remarks: Stages: MISSION CANYON /ANHY/ PORO/ Top Formation:

PD # 002

PD # 001

MISSION CANYON /ANHY/ PORO/ Base Formation:

Condst: Oil: 250 BPD Water: Gas:

Method: FLOWING 4410 - 4429 GROSS Interval: Choke: 23/64 Duration of Test: Hours

#3714

10/9/2001 Date: Time: 11:06 AM

Oil:

Gravity:

PERF

Prod Method: FTP: Pressures:

FCP:

SITP:

352MSNC

SICP:

Perforations:

MISSION CANYON /ANHY/ PORO/

Perf Interval:

4410 - 4429

Shots/Ft: 4

DST # 001

Show:

Formation: MADISON

Interval:

4397 - 4448

BHT

Choke:

Top:

Bottom: Rec Method: PIPE

Recovery:

850

G&SMCO 2448 FT FT XW

Rec Method: PIPE

GOR:

Recovery: Mat'ls to Surface: 2 GAS

1

10

Mat'ls to Surface:

OIL

120

Pressures and Times:

Hydro Final Init

2383

Init Flow Init Final

Final Flow Final Init 1491 268

Final Init 2001 2018

Shut-in

Open Time Init Final 10 152 Shut-in Time Init Final 120 60

Core Id:

001

2389

Formation: Interval: 359MDSN MADISON

CONV

4402 - 4449

Rec: 46

FT

Show Type: OIL

Core Type: Description:

1 DOLO, GRAY, SHALEY, MICROGRANULAR

1 SS, QUARTZ, GRAY, MEDIUM-GRAIN, W/DOLO CMT, GRAY

MICROGRANULAR, IRREGULAR STAIN, TIGHT

1 SS, AS ABOVE, W/STREAKS /HORIZONTAL/, EXCELLENT P&P

EVENLY SATURATED, & TIGHT STREAKS W/NO SHOWS

1 SS, AS ABOVE, DENSE, TIGHT, NO SHOW

1 SS, AS ABOVE, W/BANDED PORO W/SHOWS & TIGHT, W/NO

SHOW

I SS, AS ABOVE, DENSE, TIGHT, NO SHOWS

1 DOLO, WHITE, EARTHY

1 DOLO, WHITE, EARTHY, W/PORPHYROBLASTIC CLEAR

COLORLESS ANHY CRYS, DENSE

2 DOLO, BROWN, FINE-GRANULAR, EVEN STAIN, EXCELLENT

INTERGRANULAR P&P, W/MICRO-VUG PORO, FAIR 1 DOLO, AS ABOVE, W/STREAKS OF ANHY CMT &

REPLACEMENTS OF ALGAL CLASTS, TIGHT IN BOTTOM OF

INTERVAL OF ONE FOOT

1 DOLO, AS ABOVE, W/SHALEY STREAKS W/PORPHRYOBLASTIC

ANHY

I DOLO, GRAY & BROWN, DENSE DOLO ALGAL CLASTS

W/MEDIUM-GRANULAR DOLO MATRIX, VERY GOOD P&P, GOOD

STAIN

1 DOLO, AS ABOVE, INTERLAYERED WITH STREAKS ANHY

GRAY, DENSE

1 DOLO, GRAY, EARTHY, DENSE

1 LS, TAN, MEDIUM CLASTIC, PELLETS, OOLITES, TRACE

MEDIUM-GRANULAR DOLO MATRIX, INTERLAYERED W/ANHY

GRAY, GOOD STAIN

I LS, AS ABOVE, NO ANHY

I LS, AS ABOVE, W/LARGE PORPHYROBLASTS COLORLESS

ANHY, DENSE

3 LS, TAN-BROWN, MEDIUM COARSE, PELLETS & CLASTS &

Date: 10/9/2001 Time: 11:06 AM

OOLITES, PARTLY ALGAL KNIT, W/TRACE SPARRY CALCITE CRYSTALS IN INTERSTICES, GOOD P&P, EVEN SATURATION IN PORO, MEDIUM-GRANULAR DOLO MATRIX, GOOD STAIN I LS, AS ABOVE, LESS PORO, TIGHT AREAS NOT STAINED 1 LS, WHITE, MEDIUM PELLETS & CLASTS W/MICROGRANULAR DOLO MATRIX, TIGHT, NO STAIN 1 LS, BROWN, MEDIUM COARSE PELLETS & CLASTS, GOOD INTERCLASTIC P&P, GOOD STAIN, SOME LIME-MUD MATRIX 5 LS, AS ABOVE, FAIR-GOOD PORO & STAIN 1 LS, TAN-BROWN, VERY FINE-GRANULAR TO SUBCHALKY 1/8 INCH VUGS FILLED W/FINE-GRANULAR LS, SPOTTY STAIN VUGS CONTAIN GLOBULAR TARRY OIL, WTR WET, TIGHT 1 LS. BUFF-TAN, MEDIUM COARSE CLASTIC W/SPARRY ANHY INFILL, TIGHT 1 DOLO, GRAY, EARTHY 1 LS, BUFF-TAN, MEDIUM COARSE CLASTIC, W/MEDIUM GRANULAR LS MATRIX, EVEN STAIN IN GRANULAR MATRIX FAIR PORO 1 DOLO, WHITE-GRAY, MICROGRANULAR TO EARTHY 1 DOLO, AS ABOVE, SHALEY, MEDIUM CLASTIC TEXTURE DENSE MATRIX 2 DOLO, AS ABOVE, W/POOR VUG PORO, VUGS LINED W/SPAR CALCITE & FILLED W/OIL, TIGHT 3 DOLO, GRAY, DENSE, EARTHY 1 SS, GRAY, FINE-MEDIUM QUARTZ, SUBROUNDED, W/MATRIX OF DOLO, GRAY, EARTHY, DENSE & PORPHYROBLASTS COLORLESS ANHY 1 SS, AS ABOVE, W/STREAKS & PATCHES EXCELLENT P&P OIL SATURATED 1 SS, AS ABOVE, VERY GOOD PORO, WTR WET 1 DOLO, VERY FINE-GRANULAR & FINE CLASTIC, EARTHY APPEARANCE, TIGHT, WET 1 DOLO, WHITE & TAN, MEDIUM FINE CLASTIC, PELLETAL W/FINE TO VERY FINE-GRANULAR MATRIX, LIGHT WEAK STAIN IN SCATTERED POOR PORO 1 LS, TAN & BUFF, DENSE MEDIUM COARSE CLASTS & PELLETS W/FINE GRANULAR MATRIX, INTERCLASTIC & INTERGRANULAR PORO FAIR TO GOOD, EVEN FAIR STAIN IN **PORO** NOTE-CUT & RECOVERED 46 FT OF CORE, SAMPLES TAKEN FROM 47 INTERVALS DUE TO EXPANSION OF CORE AT BREAKS

Casing, Liner, Tubing

Casing 8 5/8 IN @ 333 w/ 150 sx Casing 4 1/2 IN @ 4519 w/ 100 sx

Tubing 2 3/8 IN @ 4476 TUBING

Drilling Journal

	Obs.	#	Int	erv	val	Ту	рe		Fo	rm
Show	2		4397	_	4448	08	έG		359MDSN	- 359MDSN
Show	1		4402	_	4449	OI	L		359MDSN	- 359MDSN
Porosity 2	Zones	m	T	ор	-	Base	Туре	Quality	Form code	Thickness
		1	4.4	เก๋ส		4405	TZIAI	G	359MDSN	

4 of 5

#3714

ate: 10/9/2001 me: 11:06 AM

Drilling Journal

2	4410 -	4412	IGRN	G	359MDSN
3	4414 -	4416	INST	G	359MDSN
4	4420 -	4424	INST	G	359MDSN
5	4425 -	4431	INST	G	359MDSN
6	4434 -	4435	INST	F	359MDSN
7	4437 -	4439	VUG	P	359MDSN
8	4443 -	4446	INST	G	359MDSN

Formations and Logs

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age code
GREENHORN	2270				LOG		603
DAKOTA	2797				LOG		602
PIPER /LM/ SD/ SH/	3730				LOG		552
SPEARFISH	3944				LOG		469
CHARLES /SALT/	4174				LOG		353
MIDALE /ANHY/	4249				LOG		353
	4302		4314		LOG		352
STATE A MISSION CANYON /ANHY/ PO	4400				LOG		352

Dwights Energydata Narrative

Accumulated through 1997

Madison: F 174 BOPD 28.2 Grav, 9 BWPD

Perfs: 4410-4429 (Madison

Perfs: Acidized; F/176 BO/12 hrs, 24/64' ch, 6% wtr, @ rate 352 BO & 20.12

Perfs: BW/PD;

Dst: #1 4398-4448

Dst: , SI/1 hr, op 2 hrs & 32 min, SI/2 hrs, GTS 5 min, burn 4-5' flare,

Dst: OTS2 hrs, rec 2448' oil, 850' sli OCW, FP 272-1480#, SIP 2031-2005#

Dwights number: R8067140

IP:

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

E-Mail:

Agent Name: Agent Remark: Fax:

Agent Code:

No. Dakota State Industrial Commission Of SCC.

WELL COMPLETION REPORT

(3)	<i>)</i> .
	#3785
when	•

			INSTRUCTION					- work
		Oil Company		ELD	Hohall			
		0			ission Car			
	Casper		STATE Wyo					
LEASE NA	ME GALL	Hutton	w					
LOCATION	C NE/4 NW/	4 SEC.	TWP.	PIN B	GE. <u>03</u> %	ELEVATION	.1043 (I)F, or, KB.)
PERMIT N	o <u> 3797</u>	_ELECTRIC OR	OTHER LOGS	RUN?_	Januar	ry 25,		19_65
NUMBER C	F CRUDE OIL	PRODUCING WEL	LS ON THIS I	LEASE, I	INCLUDING	THIS WELL	1	
			DATA ON	TEST				
BADE TOO	m contrender	2/15 1965	HOTEL AND	ነላቸው ሞ	ST COMPLI	errn 2/16	10 65 P	nue 6 a.m
		24						
	ING WELL:				PING WELL			
		CSG						INCHES
	2=3/8"	TBG 0 to 40	LBS//SQ. IN.			okes per m Els		
		IN. TYPE CHOKE <u>00</u>	TORK ADE		ING BARR	c.L.3		(8128 19.)
		320≸ - 10 de			2-3/	.8IN.	NO. FT. F	UN_4404
WAS THIS	WELL FLOWE	D FOR THE ENI	IRE DURATIO	N OF T	HIS TEST V	VITHOUT TH		
OTHER A	RTIFICIAL DEV	ICE? Yes	' '	Well fi	lowing by	heads.		
	Preliminam	Detail Tee						
RESU	LT OF THIS TE	Potential Tes ST (BBLS, NET O	IL PER 24 HRS	5.)	41	 		
GAS-C	OIL RATIO OF	THIS WELL IS			(CU. F	T. OF GAS PI	R BBL. O	FOIL)
PERC	ENT WATER P	RODUCED DURIN	G THIS TEST	82				
GRAV	TTY OF OU. P	RODUCED DURIN	G THIS TEST	CORRE	CTED TO 6	0° A.P.L) 2	8-0	
		OTHER CARRIER		011 F	niches ins	Co Pur	chase	
								
IF PERFOR	ATED: NO. HO	LES PER FT N SHOT. PERFOR	21F	ACIDIZ	ED: NO. GA	ALS. USED_2	<u>50 Dowel</u>	1 X 4/21 —
GEOLOGIC	AL FORMATIO	N SHOT. PERFOR FOR TREATING (ATED OR TRI	EATED= ireline	. Inc. an	d Dowell	≝_17. TO	<u> </u>
DATE WEL	L COMPLETED	February 16	19 65 H	OUR WE	LL COMPLE	TED	6	А.М.
		406						
							:	
		TOTAL DEPTH	OF WELL	4500		FΤ	į	
	j	PLUG BACK DI		4476				
	·	PLUG BACK DI	EFTH			F1·	<u> </u>	
true mute	WELL CORED	Yes		HAT IN	TPRUAT S7	44071	- 44571	
		ATA ON REVERS				•••		
		·	CASING RE					
Size	Put in Well	Left in Well	No. Sacks	Size	Put in V	Vell Lef	in Well	No. Sacks
OD	Ft. In.	Ft. In.	Cement		Ft.	in. Ft.	In.	Cement
8-5/8"	296	296	250					
4-1/2"	6472	4472	150				··	
			<u>.</u>			/-		
EXECUTED	THIS 23rd	DAY OF Februa	19.5	5		Oil Compa Company or C		
	Wyoming		1//	16	and	District	_	tendent
STATE OF.			/ XUG	C (S	ianatum/	5	(Tit)	
	F Natrona	—-)	1	Amm	J. V	. Deffayes	L	BOILE 44
		authority, on this he is subscribed to	_					nown to me
he is author	rized to make thi	s report and has k	nowledge of the	facts sta	ted herein ar	id that said re	port is true	and correct.
Subscribed	and sworn to b	efore me this the_	23rd day o	1	February		_1965	a.
			•	16.1	W. ()	Indes	Ar.	
My Commit	sico expires	March 16, 19	968 1	stary Pul	olic in and fo	. State o	f Nyomin	g

10/9/2001 Date: Time: 11:06 AM

1 GAIL HUTTON

NORTH DAKOTA State:

County: BOTTINEAU

Operator: SKELLY OIL COMPANY

33009008620000 API:

Initial Class: D

Target Objective:

Final Well Class: DO

OIL Status:

Field: MOHALL Permit:

on SEP 15, 1/972 3797

3785 Abandonment Date:

Formation: MADISON 4500 Projected TD:

Hole Direction:

Water Top Form IP Summary: Oil Gas

MISSION CANYON /ANHY/ PORO/ 62 BPD 8 BBL

IC:

Location

83 W Section, Twp., Range: 6 161 N

Spot Code: **NE NW**

660 FNL 1980 FWL CONGRESS SECTION Footage NS, EW:

Surface remark:

5TH PRINCIPAL MRD Principal Meridian:

US 48.8048900 / -101.4879400 Lat/Long:

PBHL:

PHBL remark:

ABHL:

ABHL remark:

TVD: ABHL: From Surface:

Dates and Depths

JAN 03, 1965 Spud Date Code: Spud:

4500 on TD:

LTD:

PlugBack Depth: 4476

MAR 24, 1965 Completed:

Formation @ TD: 352STTA Name: STATE A

1615 KB Ref. Elevation: KB. Elevation: 1615 Ground Elevation: 1605 GR

> CALVERT DRILLING COMPANY Contractor:

Rig# Rig Release Date:

IP# 001

MISSION CANYON /ANHY/ PORO/ Top Formation:

MISSION CANYON /ANHY/ PORO/ Base Formation:

Oil: 62 BPD Condst: Water: 8

Method: PUMPING Interval: 4413 - 4431

Choke: Hours **Duration of Test:**

GOR: Oil: Gravity:

Prod Method: PERF

Gas:

Shots/Ft Top Formation Perforations: Interval Cnt Type

> 2 FT 352MSNC MISSION CANYON /ANHY/ POR 4431 4413 -

BBL

4413 - 4431 1 Interval: Treatments:

1 of 5

#3785

Date: 10/9/2001 Time: 11:06 AM

Fluid:

ACID

ACID

Type: A

Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate: Remarks: Stages:

Treatments:

2 Interval: 4413 - 4431

Fluid: Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate: Remarks: Stages:

PD # 001

Top Formation: Base Formation: MISSION CANYON /ANHY/ PORO/ MISSION CANYON /ANHY/ PORO/

76 BBL Oil:

Condst: Water:

Gas: Interval:

4413 - 4431

Method: SWABBING

Duration of Test:

10 Hours

Choke:

GOR:

Oil: Gravity:

PERF

Prod Method: Pressures:

SITP:

FTP: FCP:

SICP:

Perforations:

352MSNC

MISSION CANYON /ANHY/ PORO/

Perf Interval:

4413 - 4431

Shots/Ft: 2

PD # 002

Top Formation: Base Formation: MISSION CANYON /ANHY/ PORO/ MISSION CANYON /ANHY/ PORO/

Oil:

4 BPH

Condst: Water:

Gas: Interval:

4413 - 4431

Method: FLOWING

Duration of Test:

2 Hours

Choke:

Oil:

Gravity:

GOR:

Prod Method:

PERF Pressures:

FTP:

SITP:

FCP:

SICP:

Perforations:

352MSNC

MISSION CANYON /ANHY/ PORO/

Perf Interval:

4413 - 4431

Shots/Ft:

PD#003

Top Formation: Base Formation: MISSION CANYON /ANHY/ PORO/ MISSION CANYON /ANHY/ PORO/

Oil:

7 BPH

Condst:

Gas:

Water:

Interval:

4413 - 4431 1 Hours

Choke:

Method: FLOWING

Duration of Test:

Oil:

Gravity:

GOR:

Prod Method: Pressures:

PERF

SITP:

FTP: FCP:

SICP:

Perforations:

352MSNC

MISSION CANYON /ANHY/ PORO/

Perf Interval:

4413 - 4431

Shots/Ft:

Treatments:

100 Interval: 4413 - 4431

Fluid:

250 GAL

ACID

Type: A

10/9/2001 Date: Time: 11:06 AM

#3785

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate:

Stages:

Remarks: TP 1200

PD # 004

MISSION CANYON /ANHY/ PORO/ Top Formation: MISSION CANYON /ANHY/ PORO/ Base Formation:

Condst: 41 BPD Oil:

Gas:

Water: 3 **BBL**

4413 - 4431 Interval:

Method: FLOWING Choke: 24/64

24 Hours Duration of Test:

GOR:

Oil: Gravity:

Prod Method: **PERF**

> FTP: 40 Pressures:

SITP:

FCP:

Perforations: 352MSNC SICP:

Shots/Ft:

Perf Interval:

4413 - 4431

MISSION CANYON /ANHY/ PORO/

PD#005

MISSION CANYON /ANHY/ PORO/ Top Formation: MISSION CANYON /ANHY/ PORO/ Base Formation:

> 44 BBL Oil:

Gas:

Condst: Water:

4413 - 4431 Interval:

5 Hours Duration of Test:

Choke:

Method: SWABBING

Oil: Gravity:

GOR:

PERF Prod Method:

Pressures: FTP: SITP:

FCP: 352MSNC Perforations:

SICP: MISSION CANYON /ANHY/ PORO/

Perf Interval: 4413 -4431 Shots/Ft:

Treatments:

Interval: 101

4413 - 4431

Fluid:

750 GAL

ACID Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate:

Stages:

Remarks:

PD # 006

MISSION CANYON / ANHY/ PORO/ Top Formation: MISSION CANYON /ANHY/ PORO/ Base Formation:

> 28 BBL Oil:

Condst:

Water: 97 **BBL**

Gas: Interval:

4413 - 4431

Method: FLOWING

3 Hours Duration of Test:

Choke: GOR:

Gravity: Oil:

Prod Method: PERF

FTP: Pressures:

SITP:

FCP:

SICP:

Perforations:

352MSNC

MISSION CANYON /ANHY/ PORO/

Perf Interval:

4413 - 4431

Shots/Ft:

DST # 001

S Show:

Formation: MISSION CANYON /ANHY/ PORO/

3 of 5

#3785

Date: 10/9/2001 Time: 11:06 AM

4397 - 4430 MISRUN **BHT 110** Interval: Choke: Top: Bottom: **HGSOCM** Rec Method: PIPE Recovery: 1 60 FT FT Rec Method: PIPE 2 2575 GCBO Recovery: FT O&W Rec Method: PIPE Recovery: 3 58 10 Mat'ls to Surface: GAS

Pressures and Times:

Final Flow Shut-in Open Time Shut-in Time Hvdro Init Flow Init Final Final Init **Final** lnit Final Init Final lnit Final Init 798 845 1173 798 1872 30 30 60 30 2477 2523 329

Dst Test Remark: BTM PKR FAILED

Core Id: 001

Formation: 352MSNC MISSION CANYON /ANHY/ PORO/ Interval: 4407 - 4457 Rec: 50 FT Core Type: CONV Show Type: 0&G

Core Type: CONV Description: 2 ANHY

1 LM & ANHY, LM OIL SAT

1 DOLO, OIL SAT W/SMALL VUG PORO

1 DOLO, OIL SAT WISHALL FOOTON

1 SS, TIGHT, OIL SAT

1 ANHY

16 LM, POOR-EXCELLENT PORO, OIL SAT

2 LM, SPOTTY OSTN

3 LM, GOOD PORO, APPEARS OIL SAT, STRONG SULFUR ODOR

1 DOLO

6 LM, VARYING STAIN

4 ANHY

1 LM, APPEARS WET

2 LM, NO SHOW

1 LM, BLDG OIL, STRONG SULFUR ODOR

3 DOLO, NO SHOW

1 LM, BLDG FROM VUGS & BUBBLING GAS FROM FRACTS

1 LM, AS ABOVE, MORE OSTN

1 LM, 40% OSTN 2 LM, NO SHOW

Depth

Casing, Liner, Tubing

Casing 8 5/8 IN @ 304 w/ 250 sx Casing 4 1/2 IN @ 4481 w/ 150 sx

Tubing 2 3/8 IN @ 4404 TUBING

Drilling Journal

Obs. # Interval Type Form Sample Show 2 4397 - 4430 O&G 352MSNC - 352MSNC W 4407 4457 O&G Show 352MSNC - 352MSNC **Porosity Zones** ID Quality Thickness Тор Base Type Form code İ 4407 -4457 **VUG** 352MSNC 2 4407 -4457 **FRAC** 352MSNC

TVD

ology

code

Formations and Logs

Top Formation

Log # 1 IL @ Log # 2 AV @ Measured Top Base Base Source Lith- Age

Depth

TVD

PI/Dwights PLUS on C	D Scout Ticket			Date:	10/9/2001
		#3785	•	Time:	11:06 AM
Formations and Logs					
GREENHORN	2270		LOG	(02	
DAKOTA	2796			603	
MORRISON /JURASSIC/	3144		LOG LOG	602	
PIPER /LM/ SD/ SH/	3688		LOG	553	
SPEARFISH	3949		LOG	552	
CHARLES /SALT/	4187		LOG	469	
MIDALE /ANHY/	4238		LOG	353	
MISSION CANYON /ANHY/ PO	4406			353	
STATE A	1100	4314	LOG SPL	352	
STATE A		4315		352	
Dwights Energydata Narrative		4313	LOG	352	
Accumulated through 1997					
IP:	Madison: F 41 BO	PD 28.0 Grav, 4 BWP	ח		
Perfs:	4413-4421 (Madis		D		
Perfs:	/2; Sqzd;	,			
Perfs:	4405-4408				
Perfs:		% wtr; A/250 GRA; Sv	vind KO & F/7 BO/	1 hr 0 00/ DCA	W.
Dst:	#1 4397- 4430	v, Old i, D.	700, ICO 0, 177 DO/	1 III, U.0 /8 DSQ	w,
Dst:		1, SI/1 hr, op 30 min,	ed blosiner to stra	GTS 10	
Dst:	min, no gge, rec 60	HGC & sli OCM, 25	75' blk gassy oil 58	013 10 L'ail &	
Dst:	wtr.btm pkr failed.	IFP 329-798#, FFP 84	15-1173# SIP 709-1	977# LTD	
Dst:	2477-2523#, BHT		10 11/0//, 011 //0-/	10/2#, 11	
· Cores:	#1 4407- 4457				
Cores:		li, oil sat, some anhy;	l' dolo		
Cores:		por; 1' sd, tite, oil sat;			
Cores:	poor to excl por, oil	sat; 2' li, sptty stn; 3'	li od nor ann oil		
Cores:	sat. stre sul odor: 1	dolo; 6' li, sctrd stn;	11, gu por, app on 1' anhv: 1' ed ann		
Cores:		bledg oil, strg sul odo			
Cores:		g gas from fracs; 1' li,		1' 16	
Cores:	40% oil stn; 2' li, N		71.71., more on sur,	1 11,	
Dwights number:	R8067850	,			
Operator Address					
Street or PO Box:					
City:					
State, Zip:	_				
Country:	,				
Phone:		Fax:			
E-Mail:		rax.			
A No					

Agent Code:

Agent Name:

Agent Remark:

And the state of t

No Dakota State Industrial Common Oil and Gas Division

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

5.767 wall #3756

OPERATOR	Quintar								
TREET	500 Jef	ferson Bl	<u>dg.</u>		P001	Mission	Canyon		
ITY		<u> </u>							
	ME_Gail Hu								
OCATION.	NE/4, SW/4	ection	SEC	6 TWP	161 N	rce. 83 w	ELEVATI	ON 1620	(PFFSh KB.)
ERMIT NO			CORO	THER LOG	S RUN?_	Laterolo	g, Sonic	12,	/31 19 64
	F CRUDE OIL								
				DATA C	N TEST	_			
ልፖድ ፒፑፍገ	r commence	n 1/20	19 654	rotes 7A an	DATE T	EST COMPL	eren 1	/21 19.64	HOUR 6 AM
									MINUTES.
	ING WELL:				•	IPING WEL		•	
	PRESSURE ON		, т					4.6	
	PRESSURE ON								
	- L			(D)-3-(1-3-W). 11.					(SIZE IN.)
	EIN.		KE -	(POS ADJ.)	01.1.	u.io bam			(SIZE IN.)
HUT IN P	RESSURE	250 ps	ig		SIZE TBO	; 2	:-3/8" ₁	N NO ET	prov 4436
	WELL FLOW								
	TIFICIAL DE							1111 001 (or swill on
						· · · - · - · · ·			 ;
	T OF THIS T								
GAS-O	IL RATIO OF	THIS WELL	. IS	Unknown		(CU. !	T. OF GAS	PER BBL.	OF OIL)
PERCE	NT WATER F	RODUÇED I	DURING	THIS TES	r <u>34</u>	<u> </u>			1
								20 10	
GRAVI	TY OF OIL F	RODUCED I	JURING	THIS TES	I (CORRE	SUITED TO	10' A.P.I.)	20.1	i
SHOT: I	PIPE LINE OR DATEATED: NO. HO AL FORMATIO	LES PER FT	4	jets	NO. QTS. IF ACIDIZ	USED	ALS. USED	89861	'; 44323'; ro4442_ft.
SHOT: I PERFORA EOLOGICA HOOTING. ATE WELL	DATE NO. HO AL FORMATIO PERFORATIN COMPLETE	LES PER FT N SHOT, PR G OR TREAT 1/11	- 4 ERFORA FING CO	Jets TED OR T DMPANY_I 1965	NO. QTS. IF ACIDIZ REATED	USED CED: NO. G. Mission	ALS. USED	800 44362 4363 FT	'; 44323'; ro4442_ft.
SHOT: I PERFORA EOLOGICA HOOTING. ATE WELL	DATEATED: NO. HO AL FORMATIO PERFORATIN	LES PER FT N SHOT, PR G OR TREAT 1/11	- 4 ERFORA FING CO	jets TED OR T	NO. QTS. IF ACIDIZ REATED	USED CED: NO. G. Mission	ALS. USED	800 44362 4363 FT	ro4442 FT.
SHOT: I PERFORA EOLOGICA HOOTING. ATE WELL	DATE NO. HO AL FORMATIO PERFORATIN COMPLETE	LES PER FT N SHOT, PE G OR TREAT 1/11 44323	ERFORA	Jets TED OR T OMPANY I 1965	NO. QTS. IF ACIDIZ REATED_I .ane=Well HOUR WE	USED. ZED: NO. G. Mission 1s, Dowel L COMPL	ALS USED	800 44362 4363 FT	'; 44322'; ro4442_ft. _A. M
SHOT: I PERFORA FOLOGICA FOOTING. TE WELL	DATE NO. HO AL FORMATIO PERFORATIN COMPLETE	LES PER FT N SHOI, PE G OR TREAT 1/11 44325 TOTAL DE	ERFORA FING CC	Jets TED OR T DMPANY I 1965 FT.	NO. QTS. IF ACIDIZ REATED. Lane-Wei HOUR WE	USED USED CAN GROUP CAN CAN CAN CAN CAN CAN CAN CAN CAN CAN	ALS USED FROM TO THE TENT OF	800 44362 4363 FT	'; 44323'; ro4442_rt. A. M
SHOT: I PERFORA EOLOGICA HOOTING. ATE WELL	DATE NO. HO AL FORMATIO PERFORATIN COMPLETE	LES PER FT N SHOI, PE G OR TREAT 1/11 44325 TOTAL DE	ERFORA FING CC	Jets TED OR T DMPANY I 1965 FT.	NO. QTS. IF ACIDIZ REATED. Lane-Wei HOUR WE	USED. ZED: NO. G. Mission 1s, Dowel L COMPL	ALS USED FROM TO THE TENT OF	800 44362 4363 FT	ro4442 FT.
SHOT: I PHERFOR: EOLOGICA HOOTING. ATE WELI DP OF PA	DATE NO. HO AL FORMATIO PERFORATIN L COMPLETER Y	LES PER FT N SHOT, PR G OR TREAT 1/11 44323 TOTAL DR	ERFORA FING CO	jets TED OR T DMPANY_I	NO. QTS. IF ACIDIZ REATED_! .ane=We! .HOUR WE	USED VED CENT OF THE STATE OF T	ALS USED you FROM LI ETED 11 FT. FT.	\$00 4364 FT	ro4442_FT.
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Date: 10/9/2001 Time: 11:06 AM

1 GAIL HUTTON

State: NORTH DAKOTA County: BOTTINEAU

Operator: **OUINTANA PET CORP**

> API: 33009008470000 IC:

Initial Class:

Target Objective:

Final Well Class: DO

Status: OIL MOHALL Field:

Permit: 3768 on SEP 15, 1972

> #3756 Abandonment Date:

Projected TD: 4600 Formation: MADISON

Hole Direction:

IP Summary: Oil Gas Water Top Form

94 BPD 51 BBL MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range: 161 N 83 W

> Spot Code: **NE SW**

Footage NS, EW: 1980 FSL 1980 FWL **CONGRESS SECTION**

Surface remark:

Principal Meridian: 5TH PRINCIPAL MRD

> 48.7976900 / -101.4879300 Lat/Long: US

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface: TVD:

Dates and Depths

Spud: DEC 15, 1964 Spud Date Code:

TD: 4525 on LTD: 4514

PlugBack Depth: 4489 Completed: JAN 10, 1965

Formation @ TD: 352MSNC Name: MISSION CANYON /ANHY/ PORO/

Ref. Elevation: 1620 KB KB. Elevation: 1620 Ground Elevation: 1610 GR

Contractor: CALVERT DRILLING COMPANY

Rig Release Date: Rig#

IP# 001

Top Formation: MISSION CANYON /ANHY/ PORO/ Base Formation:

MISSION CANYON /ANHY/ PORO/

Oil: 94 BPD Condst: Gas:

Water: 51 **BBL** 4432 - 4442 Method: PUMPING Interval: GROSS

Duration of Test: Hours Choke:

Oil: Gravity: 28.1 GOR:

Prod Method: PERF

Perforations: Interval Type Cnt Shots/Ft Top Formation

4436 -4437 JET 4 FT 352MSNC MISSION CANYON /ANHY/ PORC 4441 -4442 JΕT 4 FT 352MSNC MISSION CANYON /ANHY/ PORC

4432 -4433 AJET 1 FT 352MSNC MISSION CANYON /ANHY/ PORC

<u>PI/D</u>	wight	s PL	US on Cl	D Scout	t Ticke	et_	#.	37£	56				Date Time		/9/2001 :06 AM	
			4436 - 4441 -				JET JET			352MSNC 352MSNC					/ANHY/ P /ANHY/ P	
т	Freatment	ts:	1		ve:	300 ak Down				ACID	Туре:	Α				
				Stages	-	Remar										
Т	Treatm e nt	ts:	2		ve: Agent: ition Brea ge Injecti	500 ak Down	:			ACID	Туре:	A				
DST # 001	1		Show:	S	Fo	emation:	: MADI	SON	J							ļ
		Mat'ls	Interval: Choke: Recovery: Recovery: to Surface:	44	24 - 444 op: 1937 542	47 FT	GCO SGCXW		H Bott R	BHT 134 fom: lec Method: lec Method:						
			and Times:													
	Hy Init 2353	/dro Final 2353	Init	Flow Final	Final Init 162	I Flow Final 1027	Ini 2002		t-in Fina 193	ıl İnit		al	Shut-in Init 60	Time Final 60		
Core Id:	001		Formation: Interval: Core Type: Description:	CONV 1 MUI 19 AN 2 ANF 3 SS, 0 3 DOI 5 DOI	06 - 444 / DSTONE IHY HY, DOL GREY G LO, GRE LO, ANH	E .O REEN, I Y, ANH IY, FAIF	I Show Ty DOLO, 7 IY, TIGH R-GOOD	ΓIGI IT PO	OS IT RO,	FT TN GOOD OST GOOD OST						
Casing, Lin	ner, Tubi	ing	Casing		8 5/8 IN	@	324 w/	,	200	sx						

8 5/8 IN @ 4 1/2 IN @ 200 sx Casing 4525 w/

@ Tubing 4436 TUBING 2 3/8 IN

Drilling Journal

AGIDAL												
		Obs.	#	In	ters	/al	Ty	pe		Fe)rm	Sample
	Show	1		4406	-	4447	OS	TN		359MDSN	- 359MDSN	
	Show	2		4424	-	4447	08	έG		359MDSN	- 359MDSN	W
	Show	3		4424	-	4447	W	ET		359MDSN	- 359MDSN	
	Porosity	Zones	ID	7	Гор	_	Base	Type	Quality	Form code	Thickness	
			1	4	406	-	4447	INST	G	359MDSN		
Wellsite	Geologist	1	JC	HN DY	ΈR							

Date: 10/9/2001 Time: 11:06 AM

#3756

Formations and Logs

Log #	1	IL	(a)	-					
Log #	2	EL	@	-					
Top Formation		Measi	ured	Тор	Base	Base	Source	Lith-	Age
		D	epth	TVD	Depth	TVD		ology	code
GREENHORN		2	282				LOG		603
DAKOTA		2	820				LOG		602
SPEARFISH		3	958				LOG		469
CHARLES /SALT/		4	190				LOG		353
MIDALE /ANHY/		4	253				LOG		353
MISSION CANYON /ANHY/ PO		4	424				LOG		352
STATE A					4334		LOG		352

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: P 90 BOPD 28.1 Grav, 46 BWPD

Perfs: 4432-4433

Perfs: 4436-4437 (Madison)

Perfs: 4441-4442 (Madison)
Perfs: A overall/300 GBDA;

Perfs: 4436-4442 (Madison

Perfs: /4; A/500 GBDA; S/7 BF/1 hr, 30% wtr;

Dst: #1 4400-4447

Dst: , SI/1 hr, op 4 hrs, SI/1 hr, rec 1937' GCO, 542' SW, FP 162-1027#,

Dst: SIP2002-1931#, HP 2353#, BHT 134 deg

Cores: #1 4406-4447

Cores: cut 40 1/2' @ 4406 1/2-4447, rec 38': 1' mudstone; 19' anhy; 2' anhy,

Cores: dolo; 3' sd, gry-grn, tite; 3' dolo, v-anhy, tite; 5' dolo, anhy, fair

Cores: to gd por, gd oil stn; 5' li, pell, gd por, gd SO; (2 1/2' lost);

Dwights number: R8067560

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

E-Mail:

Agent Name:

Agent Remark:

Fax:

Agent Code:

(8)

M 'h Dakota State Industrial Comración Oil and Gas Division

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

FED 1083 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

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PERMIT NO 9823ELECTRIC OR OTHER LOGS RUN. YES	LEASE NAME	Hutton	T. C. STATE	CELL NO 2	COU	TY BOTTINES	<u>u</u>
PERMIT NO 923 - Section 923 - Section 923 - ELECTRIC OR OTHER LOOS RUN. Yes 1/24 19 - NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE. INCLUDING THIS WELL 2 19 - NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE. INCLUDING THIS WELL 2 19 - NUMBER OF TEST COMMENCED 2/16 1983 HOURS AND DATE TEST COMPLETED 2/17 1983 HOURS AND DATE TEST COMPLETED 2/17 1983 HOURS AND DATE TEST COMPLETED 2/17 1983 HOURS AND DATE TEST COMPLETED 2/17 1983 HOURS AND DATE TEST COMPLETED 2/17 1983 HOURS AND DATE TEST COMPLETED 2/17 1983 HOURS AND DATE TEST COMPLETED 2/17 1983 HOURS AND DATE TEST COMPLETED 2/17 1983 HOURS AND DATE TEST COMPLETED 2/17 1983 HOURS AND DATE TEST COMPLETED 2/17 1983 HOURS AND DATE TEST COMPLETED 2/17 1983 HOURS AND THE COMPLETED 2/17 1983 HOURS AND THE PLANE OF THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWARD OTHER ARTIFICIAL DEVICE. NO CONTROL OF THIS TEST WITHOUT THE USE OF SWARD OTHER ARTIFICIAL DEVICE. NO CONTROL OF THIS TEST COMPLETED 2/18 19 19 19 19 19 19 19 19 19 19 19 19 19	LOCATIONS	W/NW SEC	6 TWP 1	.61 NO	33 A	CRES IN UNIT.	
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LENGTH OF TEST: FOR PLOWING WELL: FOR PLAMPING WELL: FLOWING PRESSURE ON CSG. LBS./SQ IN LINGTH OF STROKES PER MINUTE. FLOWING PRESSURE ON THE LBS./SQ IN NUMBER OF STROKES PER MINUTE. SIZE TEG 2 3/8 N WORKING BARRELS 11/2 'SIZE SIZE TEG 2 3/8 IN NO FT RUN "4" WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAU FREULT OF THIS TEST (BBLS. NET OIL PER 24 MRS.) 18 bbls. GAS-OIL RATIO OF THIS WELL IS TSTM (CU. FI. OF GAS PER BBL. OF OIL) FRENCH WATER PRODUCED DURING THIS TEST (CORRECTED TO 50° APL) 27 AME OF PIPE LINE OR OTHER CARRIER. FOR AND THE LINE OR OTHER CARRIER. SHOT: DATE 1/24/83 NO GTS USED 9,4256' to 4,456' FRENFORATED NO HOLES PER FT 4 IF ACIDIZED. NO GALS. USED 2,500 44.4.5 FRENFORATED NO HOLES PER FT 4 IF ACIDIZED. NO GALS. USED 2,500 44.4.5 FROM CONTING, PERFORATION OR TREATING COMPANY PERFORMED ATE WELL COMPLETED 1/28 NO GAS PER BBL. OF THIS FORM. HOUSING, PERFORATION OR TREATING COMPANY PERFORMED ATE WELL COMPLETED 1/28 NO GALS. USED 2,500 44.4.5 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,525 FT. FLUG BA	DATE TEST CO	AIMENICEL 2/16			-	2012	
FOR FLOWING WELL: FLOWING PRESSURE ON CSC LBS/SQ IN LENGTH OF STROKE 64 INC FLOWING PRESSURE ON TSC LBS/SQ IN NUADER OF STROKES PER MINUTE. 9 SIZE TBO 2 8/8 IN WORKING BARNELS 11/2 ISIZE SIZE CHOKE IN TYPE CHOKE POSADJ.) SIZE CHOKE IN TYPE CHOKE POSADJ.) SIZE CHOKE IN TYPE CHOKE POSADJ.) FRESULT IN PRESSURE 25% WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAH AND THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAH AND THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAH AND THIS WELL OF THIS WELL IS TSTH (CU. FT. OF GAS PER BBL. OF OIL) PERCENT WATER PRODUCED DURING THIS TEST (CORRECTED TO 60° APL) 27 AME OF PIPE LINE OR OTHER CARRIER POTTAL PIPE LINE GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° APL) 27 AME OF PIPE LINE OR OTHER CARRIER POTTAL PIPE LINE FORTAL DATE 1/24/63 NO GTS USED 4,456° SHOT! DATE 1/24/63 NO GTS USED 4,456° AND GTS USED 4,456° TO 4,456° FOR SHOT! DATE 1/24/63 NO GTS USED 4,456° AND THE PERFORATION ON TREATING COMPANY PRINCE FOR THE WELL COMPLETED 1/26 NO GALS USED 2,500 44.4.4 EOLOGICAL FORMATION SHOT. PERFORATION COMPANY PRINCE FOR THE WELL COMPLETED 1/26 NO GALS USED 2,500 44.4.4 FOR THE WELL COMPLETED 1/26 NO GALS USED 2,500 44.4.4 FOR THE WELL COMPLETED 1/26 NO GALS USED 2,500 44.4 FOR THE WELL CORPET: POTTAL OF WELL 4,525 FOR THE WELL CORPET: POTTAL ON REVERSE SIDE OF THIS FORM CASING RECORD SIZE Put in Well Left in Well No Sacks FILE IN FIL		A	THOURS M.	DATE TEST C	OMPLETED	2/1/	HOUR BA.
FLOWING PRESSURE ON CS3 LBS./SQ IN LENGTH OF STROKE 64 NCC FLOWING PRESSURE ON TBU LBS./SQ IN NUMBER OF STROKES PER MINUTE 9 SIZE TSG 2 3/8 N WUNDER OF STROKES PER MINUTE 9 SIZE TSG 2 3/8 N WUNDER OF STROKES PER MINUTE 9 SIZE CHOKE IN TYPE CHOKE POS ADJ. HUT IN PRESSURE 25% SIZE TSG 2 3/8 IN NO FT. RUN 1/4 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAH PRESSURT OF THIS TEST (BBLS. NET OIL PER 24 HRS.) 18 bbls. GAS-OIL RATIO OF THIS WELL IS ISTH (CU. FT. OF GAS PER BBL. OF OIL) PERCENT WATER PRODUCED DURING THIS TEST (CORRECTED TO 50' API.) 27 SAME OF FIPE LINE OR OTHER CARRIER POTTAL PIPE LINE GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 50' API.) 27 SAME OF FIPE LINE OR OTHER CARRIER POTTAL PIPE LINE FORMATION SHOT. PERFORATED OR TERATED WORLD NO GALS USED 4,455' ECOLOGICAL FORMATION SHOT. PERFORATED OR TERATED WORLD NO GALS USED 2,500 44.4 ECOLOGICAL FORMATION OR TERATING COMPANY PENGO PO OF PAY 4,428 TOTAL DEFTH OF WELL 4,525' FT. FLUG BACK DEPTH 4,467 FT. TOTAL DEFTH OF WELL 4,525' FT. FLUG BACK DEPTH 4,467 FT. TOTAL DEFTH OF WELL 4,525' FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,4525' FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,525' FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FT. FLUG BACK DEPTH 4,467 FT. FT. FT. FT. FT. FT. FT. FT			———н	OURS			MINUTI
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RESULT OF THIS TEST (BBLS NET OIL PER 24 HRS.) GAS-OIL RATIO OF THIS WELL IS TSTM (CU. FI. OF GAS PER BBL. OF OIL) PERCENT WATER PRODUCED DURING THIS TEST 80% GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 66° API.) 27 AME OF PIPE LINE OR OTHER CARRIER POPTAIL PIPE LINE SHOT: DATE 1/24/63 NO GTS USED 4,456° PERFORATED NO HOLES PER FT IF ACIDIZED NO GALS. USED 2,500 44.4.4 EDUCATION OF HER CARRIER PRODUCED OF TREATED HONAIT FROM 4,426° TO 4,456° FOR PERFORATION OR TREATING COMPANY Penge TOUTING, PERFORMATING OR TREATING COMPANY Penge FT. TOTAL DEPTH OF WELL 4,525° FT. FLUG BACK DEPTH 4,467 PT. TOTAL DEPTH OF WELL 4,525° FT. FLUG BACK DEPTH 4,467 PT. TOTAL DEPTH OF WELL 4,525° FT. FLUG BACK DEPTH 4,467 PT. CASING RECORD Size Put in Well Left in Well No Sacks Size Put in Well Left in Well No Sacks Pt. In Ft. In Cement Size Pt. In Well Vision Size Pt. In Ft. In Cement Size Pt. In Well Vision Size Pt. In Ft. In Cement Size Size Pt. In Well Vision Size Pt. In Ft. In Cement Size Size Pt. In Well Vision Size Size Pt. In Well Vision Size Size Pt. In Well Vision Size Size Size Pt. In Well Vision Size Size Size Size Size Size Size Size	AS INIS WEL.	L PLOWED FOR THE EN	TIRE DURATION	OF THIS T	EST WITHOU	OUT THE USE (OF SWAB C
GAS-OIL RATIO OF THIS WELL IS TSTM (CU. FT. OF GAS PER BBL. OF OIL) PERCENT WATER PRODUCED DURING THIS TEST 808 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED 10 80° API.) 27 AME OF PIPE LINE OR OTHER CARRIER POTTAL PIPE LINE SHOT: DATE 1/24/83 NO QTS USED 4,426° to 4,456° PERFORATED: NO. HOLES PER FT IP ACIDIZED NO GALS. USED 2,500 44.4 ECOLOGICAL FORMATION SHOT: PERFORATED OR TREATED HOMAll FROM 4,428° FT. TO 4,464°; NOTING, PERFORATING OR TREATING COMPANY Pagge ATE WELL COMPLETED 1/26 Mg HOUR WELL COMPLETED PO OF PAY 4,428 FT. TOTAL DEPTH OF WELL 4,525 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. CASING RECORD CASING RECORD Size Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement	THER ARTIFIC	HAL DEVICES 110					
GAS-OIL RATIO OF THIS WELL IS TSTM (CU. FT. OF GAS PER BBL. OF OIL) PERCENT WATER PRODUCED DURING THIS TEST 808 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED 10 56° API.) 27 AME OF PIPE LINE OR OTHER CARRIER POTTAL PIPE LINE SHOT: DATE 1/24/83 NO QTS USED 4,426° to 4,456° PERFORATED: NO. HOLES PER FT IP ACIDIZED NO GALS. USED 2,500 44.4 ECOLOGICAL FORMATION SHOT: PERFORATED OR TREATED HOMAIL FROM 4,428° FT. TO 4,464° NOCOTING, PERFORATING COMPANY PERFORMATION, PERFORATING COMPANY PERFORMATION OR TREATING COMPANY PERFORMATION OF TREATED HOMAIL FROM 4,428° FT. TO 4,464° NOCOTING, PERFORATING COMPANY PERFORMATION OF THE WELL COMPLETED ATE WELL COMPLETED 1/26 MIGHT NOTAL DEPTH OF WELL 4,525° FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. FLUG BACK DEPTH 4,467 FT. CASING RECORD CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Pt. In. Ft. In. Cement Pt. In. Ft. In. Cement Ft. In. Ft. In. Cement Pt. In. Cement Pt. In. Ft. In. Cement Pt. In. Cement Pt. In. Ft. In. Cement Pt. I							
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GRAVITY OF OIL PRODUCED DURING THIS TEST GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 50° API.) 27 AME OF PIPE LINE OR OTHER CARRIER POTAL Pipe Line SHOT: DATE 1/28/83 NO QTS USED 4,426′ to 4,456′ PERFORATED NO HOLES PER FT IF ACIDIZED NO GALS. USED 2,500 44.4 PERFORATED NO HOLES PER FT IF ACIDIZED NO GALS. USED 2,500 44.4 FOLOGICAL FORMATION SHOT. PERFORATED OR TREATED HOMAIL FROM 4,428 FT. TO 4,464′ NOOTING, PERFORATING OR TREATING COMPANY PENGO ATE WELL COMPLETED 1/26 19 83 HOUR WELL COMPLETED PO OF PAY 4,428 FT. TOTAL DEPTH OF WELL 4,525 FT. TOTAL DEPTH OF WELL 4,525 FT. FLUG BACK DEPTH 4,467 PT. CASING RECORD Size Put in Well Left in Well No. Sacks Ft. In Ft. In Cement Ft. In Ft. In Ft. In Cement Ft. In Ft. In Ft. In Cement Ft. In	GAS-OIL RA	ATIO OF THIS WELL IS_	TSTH	 (CU PT OF	CAE DEP 551	05 Am.
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SHOT: DATE 1/24/83 NO QTS USED 4,426' to 4,456' PERFORATED: NO HOLES PER FT 4 IF ACIDIZED: NO GALS. USED 2,500 4444 EDILOGICAL FORMATION SHOT. PERFORATED OR TREATED HOWALL INTERVALS. FROM 4,428 FT. TO 4,428 FT. T	GRAVITY O	FOIL PRODUCED DURIN	G THIS TEST	CORRECTED	IO 60° A.F	P.I.) 27	
P SHOT: DATE 1724/83 NO QTS USED 4,426' to 4,456' F PERFORATED: NO HOLES PER FT 4 IF ACIDIZED: NO GALS. USED 2,500 4444 F PERFORATED: NO HOLES PER FT 4 IF ACIDIZED: NO GALS. USED 2,500 4444 F PERFORATION SHOT. PERFORATED OR TREATED HOWALL SHOW 1,428 FT. TO 4,404, 1428 FT. TO 4,	·						
FOR THE NO. HOLES PER FT. IF ACIDIZED. NO. GALS. USED 2,500 44.44 FOLOGICAL FORMATION SHOT. PERFORATED OR TREATED Honall FROM 4,428 FT. TO 4,428 FT.	AME OF PIPE L	INE OR OTHER CARRIER	<u> </u>	Porta	l Pipe L	ine	
FPERFORATION NO. HOLES PER FT IF ACIDIZED. NO. GALS. USED 2,500 44.4.4 is acidized. FORMATION SHOT. PERFORATED OR TREATED Honall FROM 4,428 FT. TO 4	F SHOT: DATE_	1/24/83	NO	QTS. USED.	4,426	to 4,450	
ATE OF Hard Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sack Ft. In. Ft. In. Cement Ft. In. Ft. In. Ft. In. Cement Ft. In. Ft. In. Ft. In. Cement Ft. In. Ft. In. Ft. In. Cement Ft. In. Ft. In. Ft. In. Cement Ft. In.	PERFORATED:	NO HOLES PER ET	***			SED 2,500	4004
ATE WELL COMPLETED 1/26 19 HOUR WELL COMPLETED 19 HOUR WELL COMPLETED 19 HOUR WELL COMPLETED 19 HOUR WELL COMPLETED 19 HOUR WELL COMPLETED 19 FT. TOTAL DEPTH OF WELL 4,525 FT. FLUG BACK DEPTH 4,467 PT. AS THIS WELL CORED? Yes WHAT INTERVALS? 4,426°to 4,450° VE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No Sacks Size Put in Well Left in Well No Sack Ft. In Ft. In Cement Ft. In Ft. In Cement Ft. In Ft. In Cement Ft. In Ft. In Cement	EOLOGICAL FO	RMATION SHOT, PERFOR	RATED OR TREA	ATED Mohal	.1 FRO	OM 4,428 FT 7	- 4,844 _E
TOTAL DEPTH OF WELL 4,525 FT. FLUG BACK DEPTH 4,467 FT. AS THIS WELL CORED: Yes WHAT INTERVALS: 4,426'to 4,450' VE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No Sacks Size Put in Well Left in Well No Sack Ft. In. Ft. In. Cement Ft. In. Ft. In. Ft. In. Cement Ft. In. In. Cement Ft. In. In. Cement Ft. In. In. Cement Ft. In. In. Cement Ft. In. In. Cement Ft. In. In. In. Cement Ft. In. In. In. Cement Ft. In. In. In. Cement Ft. In. In. In. In. In. In. In. In. In. In	HOOTING PERF	ORATがいこ ヘウ アカティカサッカー	PA1	H (100)			
TOTAL DEPTH OF WELL 4,525 FT. FLUG BACK DEPTH 4,467 FT. AS THIS WELL CORED: Yes WHAT INTERVALS: 4,426'to 4,450' VE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No Sacks Size Put in Well Left in Well No Sack Ft. In. Ft. In. Cement Ft. In. Ft. In. Ft. In. Cement Ft. In. In. Cement Ft. In. In. Cement Ft. In. In. Cement Ft. In. In. Cement Ft. In. In. Cement Ft. In. In. In. Cement Ft. In. In. In. Cement Ft. In. In. In. Cement Ft. In. In. In. In. In. In. In. In. In. In	ATE WELL COM	IPLETED 2/20	19HO	UR WELL CO	MPLETED_		М
FLUG BACK DEPTH 4,467 FT. AS THIS WELL CORED: Yes WHAT INTERVALS: 4,426 to 4,450 t	OP OF PAY	7,720	FT.				
FLUG BACK DEPTH 4,467 FT. AS THIS WELL CORED? Yes WHAT INTERVALS? 4,426 to 4,450 t							
FLUG BACK DEFTH 4,467 AS THIS WELL CORED? Yes WHAT INTERVALS? 4,426'to 4,450' VE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement 5/8" 419' 419' 300 sks 5 1/2" 4,525' 4,525' 400 sks ECUTED THIS 22 DAY OF February 19 83 Earl Schwartz Co. ATE OF Ward 19 (Company to Operatory Operatory Operatory Operator) ENTY OF Ward 19 (Signature) (Title) The person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct scribed and sworn to before me this the 22 day of February 19 83 DONNAM OLSON		TOTAL DEPTH	4,5	525		i	
AS THIS WELL CORED? Yes WHAT INTERVALS? 4,426 to 4,450		1			FT.	ŀ	
CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Fit. In. Fit. In. Cement Fit. In. Fit. In. Cement 5/8" 419' 419' 300 sks 5 1/2" 4,525' 4,525' 400 sks ECUTED THIS 22 DAY OF February North Dakota UNITY OF Ward Signature) Ward Signature Signatur		FLUG BACK DE	PTH 4,467	·	FT.		
CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Ft. In. Ft. In. Cement Ft. In. Ft. In. Ft. In. Cement Ft. In. Ft. In. Ft. In. Cement Ft. In. Ft. In. Ft. In. Ft. In. Cement Ft. In. Ft							
CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sack Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Size Put in Well Left in Well No. Sack Cement Ft. In. Ft. In. Cement Size Put in Well Left in Well No. Sack Cement Size Put in Well Left in Well No. Sack Cement Size Put in Well Left in Well No. Sack Size Put in Well Left in Well No. Sack Size Put in Well Left in Well No. Sack Size Put in Well Left in Well No. Sack Size Put in Well Left in Well No. Sack Size Put in Well Left in Well No. Sack Size Size Put in Well Left in Well No. Sack Size Size Size Put in Well Left in Well No. Sack Size Size Size Size Size Size Size Size	AS THIS WELL	CORED? Yes		AT INTERVA	<u>s</u> , 4,	426 to 4,450	•
Size Put in Well Left in Well No. Sacks Ft. In. Cement Ft. In. Cement 5/8" 419' 419' 300 sks 5 1/2" 4,525' 4,525' 400 sks ECUTED THIS 22 DAY OF February North Dakota ENTY OF Ward See the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that authorized to make this report and nas knowledge of the facts stated herein and that said report is true and correct scribed and sworn to before me this the 22 day of February 19 83 CASING RECORD Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement Ft. In. Schwartz (Company by Operator) (Company by Operator) (Company by Operator) (Company by Operator) (Company by Operator) (Signature) (Signature) (Signature) (Signature) (Signature) (Company by Operator) (Signature) VE DRILL STEM	TEST DATA ON REVERSE	E SIDE OF THIS	FORM.		·		
Fit. In. Ft. In. Cement 5/8" 419' 419' 300 sks 5 1/2" 4,525' 4,525' 400 sks ECUTED THIS 22 DAY OF February North Dakota UNITY OF Ward ore me the undersigned authority on this day personally appeared. Signature) Signature Signature Carrier Schwartz (Signature) (Signatu			CASING REC	ORD			
Ft. In. Ft. In. Cement 5/8" 419' 419' 30D sks 5 1/2" 4,525' 4,525' 400 sks ECUTED THIS 22 DAY OF February North Dakota UNTY OF Ward ore me the undersigned authority, on this day personally appeared (Signature) See the person whose name is subscribed to the above instrument, who being by me duly sworn on eath states that is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct scribed and sworn to before me this the 22 day of February 19 83 DONNAM OLSON	Size Put i	n Well Left in Wall	No Engles 6			·	
ECUTED THIS 22 DAY OF February BY Ward Some the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct scribed and sworn to before me this the 22 day of February DONNAM CLSON							No. Sacks
ECUTED THIS 22 DAY OF February 19 83 Earl Schwartz Co. ATE OF North Dakota UNITY OF Ward 19 (Signature) (Title) Operator (Signature) (Title) Fig. (Signature) (Title) Fig	5/8" 419'	#19*	300 sks 5	1/2" 4.5			
North Dakota TE OF Ward See the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct cribed and sworn to before me this the 22 day of February OONNAM OLSON					• •		Cement
North Dakota Operator Op							
North Dakota Operator In the said specific operator In the said report is true and correct operator Op			<u>-</u>				Cement
Operator UNITY OF Ward Operator (Signature) (Signature) (Signature) (Title) Operator (Signature) (Signature) (Title) Operator (Signature) (Signature) (Title) Operator (Signature) (Answert 2		22					Cement
UNTY OF Ward ore me the undersigned authority, on this day personally appeared be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct scribed and sworn to before me this the 22 day of February OONNAM OLSON	ECUTED THIS_	22 DAY OF February	, 19 83				Cement
ore me the undersigned authority, on this day personally appeared Earl Schwartz known to me the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct scribed and sworn to before me this the 22 day of February 19 83 DONNAM OLSON	Namel	DAT OF	/ 19 83	20. 2		or Operatory	Cement 400 sks.
the the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct scribed and sworn to before me this the 22 day of February 19 83 DONNAM OLSON	ATE OF North	Dakota	, 19 83	201		or Operatory	Cement 400 sks.
se the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct scribed and sworn to before me this the 22 day of February DONNAM OLSON	ATE OF North	Dakota	, , , , , 83	201		of Operatory	Cement 400 sks.
scribed and sworn to before me this the 22 day of February 19 83 DONNAM CLSON	ATE OF North	pakota ss	tay personally an	(Signature)	(Compan	or Operatory	Cement 400 sks.
Scribed and sworn to before me this the 22 day of February DONNA M OLSON DONNA M OLSON	ATE OF War	pakota rapid separate is subscribed to be pared in subscribed to be p	lay personally ap	(Signature)	(Compan	ybi Operatory class Gio rtz k	Cement 400 sks.
DONNA M OLSON	ATE OF Worth UNTY OF War ore me the unde	pakota rapid separate is subscribed to be pared in subscribed to be p	lay personally ap	(Signature)	(Compan	ybi Operatory class Gio rtz k	Cement 400 sks.
Motors Bushing Manual Communication of the Communic	ATE OF Worth UNTY OF War ore me the unde the person wh is authorized to m	r Dakota rsigned authority, on this cose name is subscribed to the sake this report and has known	lay personally ap he above instrum owledge of the fac	(Signature) peared Ez pearet, who bein its stated herei	(Compan	ybi Operatory class Gio rtz k	Cement 400 sks.
Commission expires My commission expires Dec 19 1982.	ATE OF War UNTY OF War ore me the unde be the person wh is authorized to m	r pakota region authority, on this concentrate is subscribed to the sake this report and has known to before me this the	lay personally ap he above instrumowledge of the fac	(Signature) peared Ez pearet, who bein its stated herei	(Compan	ybi Operatory class Gio rtz k	Cement 400 sks.
Natary Public is and for	ATE OF War UNTY OF War ore me the unde be the person wh is authorized to m	r Dakota. rsigned authority, on this cose name is subscribed to thake this report and has known to before me this the DONNA M O	day personally ap the above instrumowledge of the face 22 day of the f	(Signature) peared Ezert, who bein its stated herei	(Companies) Companies Schwarz Schwarz by me du and that sa	ybi Operatory class Gio rtz k	Cement 400 sks.

Date: 10/9/2001 Time: 11:07 AM

2 HUTTON GAIL

State:

NORTH DAKOTA

County:

BOTTINEAU

Operator:

SCHWARTZ EARL

API:

33009015740000

Initial Class: D

Target Objective:

Final Well Class:

DO OIL

Status: Field:

MOHALL 9823

Permit:

on APR 15, 1983

Projected TD:

4500

Formation: MADISON

Hole Direction:

IP Summary:

Oil

Gas

Water Top Form

Abandonment Date:

18 BPD

72 BBL

MADISON

IC:

Location

Section, Twp., Range:

161 83 W N

Spot Code:

E2 SW NW

1980 FNL

732 FWL

CONGRESS SECTION

Footage NS, EW: Surface remark:

Principal Meridian:

5TH PRINCIPAL MRD

Lat/Long:

48.8013100 / -101.4931200

US

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface: TVD:

Dates and Depths

Spud:

OCT 15, 1982

4525 on

Spud Date Code:

TD:

LTD:

PlugBack Depth:

4467

Completed:

FEB 17, 1983

Formation @ TD:

359MDSN

Name: MADISON

Ref. Elevation:

KB. Elevation: Ground Elevation:

1603 GR

Contractor:

NOT REPORTED

Rig Release Date:

Rig#

IP# 001

Top Formation:

MADISON **MADISON**

Base Formation:

18 BPD

Condst:

Oil: Gas:

Water: 72 Method: PUMPING

Interval: Duration of Test: 4428 - 4444 Hours

Choke:

Oil:

Gravity:

27

GOR:

Prod Method:

4428 -

PERF

Shots/Ft

Top Formation

Perforations:

Interval 4444

Cnt

4 FT 359MDSN

MADISON

BBL

Treatments:

Interval:

4428 - 4444

Type

Date: 10/9/2001 Time: 11:07 AM

Fluid:

2500 GAL

ACID

Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate:

Stages:

CONV

Remarks:

Core ld: 001

Formation:

359MDSN **MADISON**

Interval:

4426 - 4450

Rec: 16

FT

Core Type:

Show Type:

Description:

3.0TLS,ALGAL, PISOL, VUG

1.0TLS,AA, CLOSED VERT FRACS

3.0TLS,ALGAL, PISOL, VUG

1.0TLS,FN XLN, ALGAL, SCATT VUG 1.0TLS,FN, SUCR, ALGAL, VUG

4.0TLS, ALGAL, PISOL, VUG

3.0TLS,FN, SUCR, ALGAL, PP, VUG

Casing, Liner, Tubing

Casing

8 5/8 IN @

419 w/

300 sx

Casing 5 1/2 IN @ 4525 w/ 400 sx

Dwights Energydata Narrative

Accumulated through 1997

None

Dwights number:

R1268030

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

Fax:

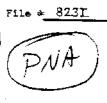
E-Mail:

Agent Name:

Agent Code:

Agent Remark:

North Dakota Industrial Commission 1984 80 011 and Gas Division 1984 80 900 East Blvd., Bismarck, North Dakota 38886/ISION



PLUGGING RECORD

OPERATOR	Monsanto Oil Com	pany FIELD	Mohall	POOL	Madison	_
LEASE NAME	Kreider	WELL NO.	1 SEC	₩ 9 € 32 = TXP	162N RGE.	83W
	Bottineau					
	March 11					
STREET_Sui	te 600, 5613 DTC	Parkway	CITYEnglewo	ood st	ATE Colorado	80111
ELECTRIC OR O	OTHER LOGS RUN? <u>DLL</u>	erlook, -MSFL, CNL-FDC	NO. CF DS	sts run <u>1</u>		(see back)
WAS WELL CORE	ID? <u>No</u>		INTERVALS CORET) <u> </u>	one	
WAS THE WELL	FILLED WITH MUD LADE	N FLUID! ** Yes	5	ND WEIGHT 1).1	#/GAL.
WELL RECORD				T		
<u></u>		CASING		PEUGS	CEM	ENT
SIZE	DEPTH SET	WEIGHT 0/FI	AMOUNT FULLED	TYPE & DEPTH	NO. SACKS	INTERVAL
8-5/8"	603	24		See remarks		
5-1/2"	44171	15.5		<u> </u>		
			:	<u> </u>		
			<u> </u>	·	!	
	<u> </u>	· · · · · · · · · · · · · · · · · · ·		: <u></u>	!	
			<u></u>	<u> </u>	<u> </u>	
1			<u> </u>		: :	
PENATES A			<u></u>		<u> </u>	
7 a=f 2	et CTBP 0 42201 a	and cumped 10 sy	s cement on top	. Perforated	<u>608-613' wi</u>	th
shoe and	25 sx in 5-1/2"	casing. Pulled	<u>lueezeo 25 sx c</u> l out retainer	ement helow su	<u>irface casing</u>	8
Casing wa	s cut off 3' bel	ow surface and	capped with 10	sx cement.	sx cement of	n top.
						 -
WAS NOTICE GIV	VEN BEFORE PLUGGING,	TO ALL AVAILABLE AD	JOENING LEASE AND	LAND OWNERS?	Yes	
Executed this	5thday o	ř <u>Jůly</u>	, 19 <u>_84</u>	MONSANTO (OIL COMPANY	
				_A (Coπp	any or Operator	
				Kallver	A	
			_	(Signature)		
STATE OF	Colorado)			X I acute	'	Title)
	}		(1	()		
COUNTY OF			<u>~_</u> >			
Before me the	undersigned authorit	y, on this day pers	sonally appeared _	K. J. E	bner	known to
me to see the p	erson whose name is	subscribed to the a	bove instrument, w	ho being by me du	ly sworm on ear	t states than
dorrect:	red to make this rep	ort and has knowled	ige of the facts s	tated berein and i	that said repor	t is true and
Subscribed and	sworn to before me	this the Seh	day of	72		30 44
				July	\(\)	TA 84
ing the second s				Janera)	(1. Am	th)
Mar in	ingen Manah 15	1006		//		
ny Commission SAJ:jas	expires March 15	, 1700 No:	cary Public in and	tor State of C	Olorado	

Date: 10/9/2001 11:03 AM Time:

1 KREIDER

State: NORTH DAKOTA BOTTINEAU County:

Operator: MONSANTO CO ETAL

33009014370001 API:

Initial Class: DX

Target Objective:

Final Well Class: D

> D&AW Status: Field: **MOHALL**

on AUG 12, 1998

Permit:

Projected TD:

Hole Direction:

Abandonment Date:

IC:

Location

83 W N Section, Twp., Range: 162

> NW SW SE Spot Code:

CONGRESS SECTION Footage NS, EW: 810 FSL 2130 FEL

Formation:

Surface remark:

5TH PRINCIPAL MRD Principal Meridian:

48.8088500 / -101.4615900 US Lat/Long:

PBHL:

PHBL remark:

ABHL:

ABHL remark: ABHL:

From Surface:

TVD:

Location Narrative:

Type

Remark

1/2 MI E OF PRODUCTION IN MOHALL FLD /MADISON/ 1/4 LOCATION

MI E OF MOHALL FLD BOUNDARY

Dates and Depths

OCT 08, 1982 Spud Date Code: Spud:

TD: 4417 on

LTD:

PlugBack Depth:

Completed: MAR 11, 1984

Name: MADISON 359MDSN Formation @ TD:

1602 KB Ref. Elevation: 1602 KB. Elevation: 1591 GR Ground Elevation:

Contractor:

Rig# Rig Release Date:

Dwights Energydata Narrative

Accumulated through 1997

PROD TEST (Bluell 4258-4272) Swabbed -- 24 bbls fluid IP: PROD TEST (Bluell 4220-4222) Swabbed -- 47 bbls fluid IP:

4258-4272 (Bluell Perfs:

Perfs: - acid w/500 gal HCl

4220-4222 (Bluell Perfs:

w/2 SPF - acid w/250 gal 15% HCl Perfs:

Dwights number: R1125741

Operator Address

Street or PO Box:

1 of 2

Date: 10/9/2001 Time: 11:02 AM

1 KREIDER

NORTH DAKOTA State: County: BOTTINEAU

Operator: MONSANTO CO ETAL

33009014370000 API:

Initial Class: WO

Target Objective:

Final Well Class: WO

Status: TA-OG Field: **MOHALL**

Permit:

on MAY 15, 1981 8231

Abandonment Date:

IC:

Projected TD: Hole Direction:

4400

Formation: MADISON

Location

83 W Section, Twp., Range: 162 N

> Spot Code: NW SW SE

Footage NS, EW: CONGRESS SECTION 810 FSL 2130 FEL

Surface remark:

Principal Meridian: **5TH PRINCIPAL MRD**

> 48.8088500 / -101.4615900 US Lat/Long:

PBHL:

PHBL remark:

ABHL:

ABHL remark:

From Surface: TVD: ABHL:

Location Narrative: Remark Type

LOCATION 1/2 MI E OF PRODUCTION IN MOHALL FLD /MADISON/ 1/4

MI E OF MOHALL FLD BOUNDARY

Dates and Depths

DEC 13, 1980 Spud Date Code: Spud:

TD: 4400 on LTD: 4417

PlugBack Depth:

Completed: JAN 29, 1981

Formation @ TD: Name: MADISON 359MDSN

Ref. Elevation: 1601 KB KB. Elevation: 1601 1591 GR Ground Elevation:

> BOMAC EXPLORATION COMPANY Contractor:

Rig Release Date: Rig# 31

PD#001

Top Formation:

Base Formation:

Oil: Condst:

Gas: Water: 24 **BBL**

4366 - 4366 Interval: Method: SWABBING Duration of Test: **Hours** Choke:

Oil: Gravity: GOR:

Prod Method: PERF

Perforations:

Perf Interval: 4366 - 4366 Shots/Ft: 1

Date: 10/9/2001 Time: 11:02 AM

Treatments:

100

Interval:

4366 - 4366

ACID

Fluid:

500 GAL

Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate:

Stages:

Remarks: ACID:ORIG TREATMENT CD

PD # 002

Top Formation:

Base Formation:

Oil:

Condst:

Gas:

4366 - 4366

Water: 105

Method: SWABBING

BBL

Interval: Duration of Test:

5 Hours

Choke:

Oil:

Gravity:

GOR:

Prod Method: Pressures: PERF

FTP: FCP: SITP:

Perforations:

4366 - 4366

SICP:

Perf Interval:

Shots/Ft: 1

Treatments:

101 Interval:

Fluid:

4366 - 4366

1250 GAL

ACID Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate:

Stages:

Remarks: ACID:ORIG TREATMENT CD

PD # 003

Top Formation:

Base Formation:

Oil:

Condst:

Gas:

4367 - 4367

Water: Method: UNDESIGNATED

Interval:

Hours

Choke:

Duration of Test:

Oil:

Gravity:

GOR:

Prod Method:

Perf Interval:

Perforations:

PERF

4367 - 4367

Shots/Ft:

4367 - 4367

Treatments:

102

Interval: Fluid:

750 GAL

ACID Type: A

Additive:

Prop Agent:

Formation Break Down Pressure:

Average Injection Rate: Stages:

Remarks: ACID:ORIG TREATMENT CD

Remarks on PT Test #

003

FM NOT RPTD

DST # 001

Show: Interval: Formation:

BHT

Choke:

4331 - 4354

100

Bottom:

Recovery:

Top:

FT G&OCM Rec Method: PIPE

Recovery:

1 2

800 O xw1500

Rec Method: SMPL CHAMBER

Recovery:

3

S

CC CC

Rec Method: SMPL CHAMBER

2 of 3

Date: 10/9/2001 Time: 11:02 AM

Oil: 1 Grav: 40 GOR:

Gas: Condust ratio:

Water: CL Tot: Temp: Resist:

Pressures and Times:

Hydro Init Flow **Final Flow** Shut-in Open Time Shut-in Time **Final** Init Init Final Init Final Init Final Init Final Init Final 2352 2352 35 35 44 88 1412 1283 15 120 60 240

Dst Test Remark: FM NOT RPTD

Casing, Liner, Tubing

Casing 8 5/8 IN @ 613 w/ sx

Casing 5 1/2 IN @ 4417 w/ 250 sx

Dwights Energydata Narrative

Accumulated through 1997

Dst: #1 4321-4354 (Madison

Dst: op 15 si 60 op 120 si 240. Rec 100 ft VSG&OCM, HP 2348-2327 FP 44-40

Dst: 59-77 SIP 1407-1283

Dwights number: R1125740

Operator Address

Street or PO Box:

City: State, Zip:

Country:

Phone: Fax:

E-Mail:

Agent Name: Agent Code:

Agent Remark:

Non Dakota State Industrial Commit Oil and Gas Division

DEUE VI

°#3784

5-161

WELL COMPLETION REPORT

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OPERATOR	Monsanto	Company	F			Mot	re-(,) = 0000 [æ] [- 1	
STREET	900 Patt	erson Building	F	OOL	Madison			
OMY	Derver		STATE_C	lorsão	302020	CUNTYL	<u>Bottineau</u>	<u> </u>
LEASE NAME.	Ring			WELL NO.	1	ACRE	TINU NI B	80
LOCATION	SW SW	SEC3	TWP	162N R	з <u>е 83% </u>	ELEVAT	10n1595	XXXXXX KB.
	્ય હાં સ્ટ Si 3796	ection ELECTRIC OR O			December	- 28		6h
		FRODUCING WELL						
NUMBER OF C	RUDE OIL				, CLCDING	TUIS H	, <u> </u>	
			O ATAGO	1 TEST		-	·	7:00
DATE TEST C	OMMENCEL	<u>1-24 19 65</u> 9	OUR A. M.	DATE TE	ST COMPL	ETED_1	-251965_	HOUR A.M
		24						
FOR FLOWING			F				c.	
		CSGI						
SIZE TBG	SSURE ON	TBGL	B5./5Q. 1N:					
SIZE FBG		TYPE CHOKE	(EOS ADI)	WORK	NG DARK	ــــــــــــــــــــــــــــــــــــــ	-2	(SIZE IN.)
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		D FOR THE ENTIR						
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OTHER ARTIF	ACIAL DEV	ICE? No.	·		·· -			
1		•		-	es -			
		ST (BBLS NET OH						
GAS-OIL	RATIO OF	THIS WELL IS	TSIM		(CU. F	T. OF GA	S PER BBL.	OF OIL)
22222	WARED D	RODUCED DURING	THE TEST	22	2			
								i
GRAVITY	OF OIL PI	RODUCED DURING	THIS TEST	(CORRE	CIED TO 6	0° A.P.I.)		
GEOLOGICAL SHOOTING, PE DATE WELL C	formatio: rforating ompleted	LES PERME TWO IN SHOT, PERFORAL OF TREATING CO. January 21,	TED OR TR MPANY PE T 19 65H	EATED MA	dison ne Wells	FROM ; Acid	4366 x x x x x x x x x x x x x x x x x x	рок. 4380 г т.
OP OF PAY_			FT.					
			_					
		TOTAL DEPTH OF	WELL_	. 4466		FT.		
	!	PLUG BACK DEP						
	•	PLUG BACK DEP	тн	4420		FT.	ļ	
				-				
		Yes				4368 t	0 11/150	
GIVE DRILL ST	EM TEST D	ATA ON REVERSE	SIDE OF TH	IS FORM				
			CASING R	ECORD				
Size F	ut in Well	Left in Well	No. Sacks	Şize	Put in V	Vell	Left in Well	No. Sacks
F	t. In.	Pt. In.	Cement		Ft.	In.	Ft, In.	Cement
<u> 3 5/8 3</u>	21 0	Same	224	,	· · · · ·		·	
4 1/2 44	54 Q	Same	150	•				
	- 25th -	Jennera	19_<	55	3.5	neenta	Comaner	
EXECUTED TH	is zyun r	AY OF January					or Operator)	
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	lorado	} \$55	_	7/ {Siz	nature	1		'itle)
COUNTY OF D	enver	;	j	/	7		`-	-
		authority, on this de						_known to me
c be the person	whose nam	e is subscribed to th	ie above inst	rument, w	ho being by	me duly	swom on or	th states that
		s report and has kno			ed nerein an	d inai sa		ne and correct.
Subscribed and	sworn to be	efore me this the	<u> 25th day (</u>	Jaru	ary		<u>1965</u>	<u> </u>
				$()_{\alpha}$	30. O.	\prec	The state of	
				-7/ 4	- 1 July 1			
		August 20, 195	^	-			tate of Co	

10/9/2001 Date: 11:02 AM Time:

1 HAROLD RING

NORTH DAKOTA State:

BOTTINEAU County:

MONSANTO CO ETAL Operator:

API: 33009008610000

WO Initial Class:

Target Objective:

Final Well Class: WOE

Status: OIL

MOHALL Field:

3796 Permit:

on SEP 15, 1972

#3784

Formation: MISSION CANYON /ANHY/ PORO/ 4500 Projected TD:

Hole Direction:

Water Top Form Oil Gas IP Summary: MADISON 12 BBL

55 BPD

Location

83 W 32 162 N

SW SW Spot Code:

660 FSL Footage NS, EW:

660 FWL

CONGRESS SECTION

Abandonment Date:

IC:

Surface remark:

Section, Twp., Range:

5TH PRINCIPAL MRD Principal Meridian:

48.8084100 / -101.4718100

Lat/Long: PBHL:

PHBL remark:

ABHL:

ABHL remark:

From Surface: ABHL:

TVD:

Dates and Depths

Spud: TD: DEC 14, 1964 4466 on

Spud Date Code:

US

LTD:

4473

PlugBack Depth:

4420

Completed:

JAN 25, 1965

Formation @ TD: Ref. Elevation:

Name: MISSION CANYON /ANHY/ PORO/ 352MSNC

KB. Elevation:

1595 KB

Ground Elevation:

1595 1584 GR

CALVERT DRILLING COMPANY

Rig Release Date:

Rig#

IP# 001

MADISON Top Formation:

Oil:

MADISON Base Formation:

Contractor:

55 BPD

Condst:

Water: 12 **BBL**

Gas: Interval:

4366 - 4380

Method: PUMPING

Duration of Test:

24 Hours

Choke:

Oil: Gravity:

GOR:

PERF Prod Method:

FTP: Pressures:

SITP: 125

FCP:

SICP:

Shots/Ft Top Formation Interval Cnt Type Perforations: NOTCH 2 FT 359MDSN MADISON 4380 4366 -

29

1 of 3

#3784

10/9/2001 Date: Time: 11:02 AM

Treatments:

1 Interval:

4366 - 4380

Fluid:

1000 GAL

ACID

Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate:

Stages:

Remarks:

DST # 001

Show:

Formation: MISSION CANYON /ANHY/ PORO/

Interval: Choke: 4368 - 4420

BHT

Top: 1

S

240 FT

FT

Bottom: Rec Method: PIPE

Recovery: Recovery:

2 750 SO&GCM VSO&GCM

Rec Method: PIPE

Pressures and Times:

Hydro Init Final

Init Flow Init Final

Final Flow Init Final

20

Shut-in Init **Final** 2069 2053

Open Time Final Init 3 105 Shut-in Time lnit

Final 45 120

Dst Test Remark:

FAIR BLOW, INCR TO STRONG IN 6 MINS, CONTINUED STRONG

Dst Test Remark:

THRUOUT TEST

DST # 002

Show:

S

553

Formation: MISSION CANYON /ANHY/ PORO/

Interval: Choke: 4375 - 4391 Top:

BHT Bottom:

Recovery: 1 58 FT **SGCM**

Rec Method: PIPE

Pressures and Times:

Hydro Init Final

001

Init Flow Init Final

Final Flow lnit Final

Shut-in lnit Final

Open Time Init Final Shut-in Time Init Final

120 45 120

Dst Test Remark:

WEAK BLOW INTERMITTENTLY, REC SGCM W/RAINBOW OF OIL

Dst Test Remark:

NO PRESS RECORDED /BOTH CLOCKS STOPPED/

Core Id:

Formation:

352MSNC

MISSION CANYON /ANHY/ PORO/ FT

Interval:

4368 - 4420

Rec: 52

Core Type:

CONV

Show Type: BLDO

Description:

7 ANHY

1 LM, LOW P&P, LIGHT STAIN AND ODOR, BLDO

1 LM, ARG, TIGHT

4 LM, SLI STAIN AND ODOR

27 LM, FRACT, LOW P&P, SCATTERED STAIN

3 LM, VUGGY, FAIR TO GOOD PORO, GOOD STAIN AND ODOR 2 LM, TIGHT, LOW TO VERY LOW PORO, SCATTERED STAIN

1 1/2 LM, VUGGY, GOOD PORO, GOOD STAIN

1 1/2 LM, LOW P&P, SLI STAIN

4 LM, VUGGY, FAIR TO GOOD PORO, STAIN AND ODOR

Casing, Liner, Tubing

Casing

8 5/8 IN @

321 w/ 224 sx

Casing

4 1/2 IN @

4454 w/ 150 sx

Tubing 2 3/8 IN 4402 TUBING

Drilling Journal

Obs. #

Interval

Type

Form

Sample

2 of 3

3784

Date: 10/9/2001 Time: 11:02 AM

Drilling Journal

Show	l	4368 -	4420	08	έG		352MSNC - 352MSNC
Porosity Zones	s ID	Тор	-	Base	Туре	Quality	Form code Thickness
	1	4375	•	4376	INST		352MSNC
	2	4381	-	4408	INST		352MSNC
	3	4408	-	4411	INST	G	352MSNC
	4	4411	-	4413	INST		352MSNC
	5	4413	-	4415	INST	G	352MSNC
	6	4415	-	4416	INST		352MSNC
	7	4416	-	4420	INST	G	352MSNC

Formations and Logs

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age code
DAKOTA	2760		•		LOG	27200	602
PIPER /LM/ SD/ SH/	3600				LOG		552
SPEARFISH	3900				LOG		469
CHARLES /SALT/	4139				LOG		353
MIDALE /ANHY/	4192				LOG		353
STATE A	4267				LOG		352
MISSION CANYON /ANHY/ PO	4350				LOG		352

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: P 55 BOPD 29.0 Grav, 16 BWPD

Perfs: 4366-4380 (Madison

Perfs: /2; Acidized; Dst: #1 4368-4420

Dst: , SI/45 min, op 1 3/4 hrs, SI/2 hrs, rec 240' sli O&GCM, 750' v-sli

Dst: O&GCM, FP 20-553#, SIP 2069-2053#

Dst: #2 4375-4391

, SI/45 min, op 2 hrs, SI/2 hrs, rec 58' sli GCM, no pressures recorded Dst:

Cores: #1 4368- 4420

Cores: rec 52': 7' anhy; 1' li, some stn & odor; 1' li, tite;

Cores: 4' li, some stn & odor; 27 li, frac, low p&p, sctrd stn; 3' li, gd

stn & odor; 2' li, tite, sctrd stn; 1 1/2' li, gd por, gd stn; Cores:

Cores: 1 1/2' li, sli stn; 4' li, gd por, some stn & odor;

Dwights number: R8067840

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone: E-Mail:

Agent Name: Agent Remark: Fax:

Agent Code:

No Dakota State Industrial Communication Oil and Gas Division

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

	onsanto Com	pany		FIELD	Monall	·	180	<u> </u>
STREET Suite :	<u> </u>	<u> Çalorado</u>	Riva.	POOL	<u>Madison</u>		1.50	
CITY Denver			STATE	Colorado	80222_cc	DUNTY_	Bottineau	L
LEASE NAME	Bing	 		WELL NO.	2	ACRES	S IN UNIT	80
LOCATION NE/4	of Section	SEC	32 TWP	1621L_R	E. <u>83V</u>	ELEVAC	TON_1603_ #	DAF, AAA KS.)
PERMIT NO. 17	799 ELS	CTRIC OR (OTHER LOG	S RUNT	Yes		August 14	ia_80
NUMBER OF CRUI								
			DATA O	N TEST				
DATE TEST COMP	aft. dzowas	t. 15.19.80	Hour Z.Am	DATE TËS	T COMPLE	replict	16. :980 ==	our ZA
LENGTH OF TEST								
FOR FLOWING WE				FOR PUMP	•			
FLOWING PRESSU								
FLOWING PRESSU			LBS. SQ. IN.				# MINUTE	
SIZE CHOKE TO	!N	CHOKE 7	Tirbos statis		NG SARAE	.∟≈		_SIZE IN.
SHUT IN PRESSUI		. CROKE		SIZE TBG	2+7/8	3	IN. NO. FT.	aun 4372
WAS THIS WELL								
OTHER APTIFICIA	AL DEVICE!	N/A (pu	mping wel	1)				
RESULT OF T	HIS TEST (B	BLS. NET OI	IL PER 24 H	RS.)	10_			
							S PER BBL. O	FOUL
								FOIL
PERCENT WA								
GRAVITY OF	OIL PRODU	CED DURING	THIS TES	T (CORREC	TED TO 60	* APJ	27.5	:
NAME OF PIPE LI	NE OF OTHE	שקומסגי פ	Кос	h Oil Com	vanv	·		
IF SHOT: DATE_	anto no an	r carriba		NO. OTS. V	SZD			
IF PERFORATED:	NO. HOLES P	ER FT. See	back	IF ACIDIZI	D: NO. GA	LS. USE	D2500	
GEOLOGICAL FOR								
	DIATION SEC	DI. FERFOR,	ATED OR I	REATED_S	<u>ee back</u>	FROM.	FT. TO	FT.
SHOOTING PERFO	RATING OR	TREATING C	OMPANY_	Dresse	<u>r Industr</u>	cies		
SHOOTING PERFO	PLETED	treating o October 16	OMPANY	Dresse Hour Wel	<u>r Industr</u>	cies		00 ?. M
SHOOTING PERFO	PLETED	treating o October 16	OMPANY	Dresse Hour Wel	<u>r Industr</u>	cies		
SHOOTING PERFO	PLETED 43	TREATING C October 16 34	OMPANY	Dresse ROUR WEL	r Industr L COMPLE	TED		
SHOOTING PERFO	PLETED 43	treating o October 16	OMPANY	Dresse ROUR WEL	r Industr L COMPLE	TED		
SHOOTING PERFO	PLETED 43	TREATING C October 16 34	COMPANY 10 80 FT	Dresse HOUR WEL 4700	r_Industr L COMPLE	TED		
SHOOTING PERFO DATE WELL COME TOP OF PAY	PLETED 43	TREATING O October 16 34 AL DEPTH O	OMPANY	Dresse HOUR WEL	r Industr L COMPLE	TED	4: 4345-4390	
SHOOTING PERFO	PLETED 43	TREATING O October 16 34 AL DEPTH O	OMPANY	Dresse HOUR WEL	r Industr L COMPLE	TED	4: 4345-4390	
SHOOTING PERFO DATE WELL COME TOP OF PAY	PLETED 43 TOT PLU CORED:	TREATING O October 16 34 AL DEPTH O G BACK DE	OF WELL FIR	Bresse HOUR WEL 4700 WHAT INT HIS FORM.	r Industr L COMPLE	TED	4: 4345-4390	
SHOOTING, PERFO DATE WELL COME TOP OF PAY	PLETED 43 TOT PLU CORED:	TREATING O October 16 34 AL DEPTH O G BACK DE	OMPANY 10 80 FT	Bresse HOUR WEL 4700 WHAT INT HIS FORM.	r Industr L COMPLE	TED	4: 4345-4390	
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SHOOTING PERFO DATE WELL COME TOP OF PAY	PLETED 43 TOT PLU CORED: TEST DATA	TREATING OF COLORS OF THE COLO	DF WELL FIE SIDE OF T CASING No. Sacks Cement	Dresse HOUR WEL 4700 WHAT INT HIS FORM. RECORD	r Industr L COMPLE ERVALS? Put 10 W	TED FT.	4345-4390 4390-4442	00 Р. м.
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SHOOTING PERFORM SHOOTING PERFORM WAS THIS WELL GIVE DRILL STEM Size Put II 8-5/8 3	PLETED 43 TOT PLU CORED: TEST DATA	TREATING OF COLORS OF THE STATE	DF WELL FTE SIDE OF T CASING No. Sacks Cement 275	Dresse HOUR WEL 4700 WHAT INT HIS FORM. RECORD	r Industr L COMPLE ERVALS? Put 10 W	FT.	4345-4390 4345-4442 Left in Well	OO P. M.
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SHOOTING, PERFORM DATE WELL COMMITTOP OF PAY	PLETED 43 FORED: TOT PLU CORED: TEST DATA E. Wel: In. 82' 96' Z6th DAY ado pahop ersigned authoriose name is s	TREATING COCTOBER 16 34 TAL DEPTH COME BACK DE YES ON REVERSE Left in Well Fit. In. Same Same OF Novemb	OMPANY 19 80 FT/ OF WELL PTE SIDE OF T CASING No. Sacks Cement 275 500 day personal the above in	Bresse HOUR WEL 4700 WHAT INT HIS FORM. RECORD Size 80 (Significant) Size Appeared.	Put in W	FT. FT. #1 #2 ell In. Company Region Schol	4345-4390 4345-4390 4390-4442 Left in Well Ft. In.	No. Sacks Cement On Mor. le)
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Date: 10/9/2001 Time: 11:02 AM

2 RING

NORTH DAKOTA State:

BOTTINEAU County:

MONSANTO CO ETAL Operator:

33009013950000 API:

Initial Class:

Target Objective:

Final Well Class: DO

Status: OIL Field:

MOHALL

on JAN 15, 1981 7799 Permit:

Abandonment Date:

Water

Projected TD:

4700

Formation: MADISON

83 W

Gas

Hole Direction:

IP Summary:

Oil 10 BPD Top Form MADISON

IC:

Location

162 N 32 Section, Twp., Range:

SW NE SW

Spot Code: Footage NS, EW: 1820 FSL

1820 FWL

CONGRESS SECTION

Surface remark:

5TH PRINCIPAL MRD Principal Meridian:

> 48.8116000 / -101.4670400 Lat/Long:

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface: TVD:

Dates and Depths

Spud:

AUG 01, 1980

Spud Date Code:

US

TD: 4700 on 4693 LTD:

PlugBack Depth:

Completed: OCT 16, 1980

Name: MADISON Formation @ TD: 359MDSN

Ref. Elevation: 1603 KB 1603 KB. Elevation: 1593 GR Ground Elevation:

BOMAC EXPLORATION COMPANY Contractor:

Rig# 2 Rig Release Date:

IP# 001

Top Formation:

MADISON

Base Formation:

10 BPD Oil: Gas:

Interval

Condst:

Water: Method: PUMPING

Interval: Choke: Hours Duration of Test:

Cnt

GOR: 140 27.5 Oil: Gravity:

PERF

Prod Method: Shots/Ft

Top Formation **MADISON** 359MDSN

INT NOT RPTD Remarks on IP Test # 001

Perforations:

PD # 001

1 of 3

Type

Date: 10/9/2001 Time: 11:02 AM

Top Formation: MADISON
Base Formation: MADISON

Oil: Condst: Water:

Interval: 4364 - 4368 Method: UNDESIGNATED

Duration of Test: Hours Choke:
Oil: Gravity: GOR:

Oil: Gravity:
Prod Method: PERF

Perforations: 359MDSN MADISON
Perf Interval: 4364 - 4368 Shots/Ft: 2

Treatments: 100 Interval: 4364 - 4368

Fluid: 500 GAL ACID Type: A

Additive: U
Prop Agent:

Formation Break Down Pressure:

Average Injection Rate:

Stages: Remarks: 15%

DST # 001 Show: S F

Formation: MOHALL BHT 4345 - 4390 Interval: Bottom: Top: Choke: Rec Method: PIPE 2 FT 0 1 Recovery: SOCM Rec Method: PIPE 278 FT 2 Recovery:

Recovery: 3 2100 CC VSOCM Rec Method: SMPL CHAMBER Recovery: 4 2100 CC VSOCM Rec Method: SMPL CHAMBER

Pressures and Times:

Shut-in Time Shut-in Open Time Final Flow Init Flow Hydro **Final** Init Final **Final** Init Final Init Init Final Final Init Init 15 90 60 260 1755 1705 130 104 98 104 2324 2298

DST # 002

Show: S Formation: MOHALL
Interval: 4390 - 4422 BHT
Choke: Top: Bottom:

Recovery: 1 279 FT O&GCXW Rec Method: PIPE Recovery: 2 1554 FT ZW Rec Method: PIPE

Recovery: 3 2100 CC ZW Rec Method: SMPL CHAMBER

Pressures and Times:

Shut-in Time Open Time Final Flow Shut-in Hydro Init Flow **Final Final** Init Init Init Final Init Final Final Init Init Final 15 120 60 180 823 1832 296 846 55 185 2312 2277

Core Id: 001

Formation:

Interval: 4390 - 4422 Rec: 32 FT

Core Type: CONV Show Type:

Core Id: 002

Formation: Interval: 4345 - 4390 Rec: 40 FT

Core Type: CONV Show Type:

Casing, Liner, Tubing

Casing 8 5/8 JN @ 382 w/ 275 sx

2 of 3

10/9/2001 Date: Time: 11:02 AM

Casing	5 1/2 IN @	4696 w/	500 sx	
_	2 7/8 IN		@	4372 TUBING

Formations and Logs

Log#	Ì	DNC	@	-
Log#	2	NEC	@	•
Log#	3	GR	@	-
Log #	4	AVC	@	-
Log#	5	ΑV	@	-
Log#	6	CA	(a)	-

Dwights Energydata Narrative

Accumulated through 1997

#1 4345-4390 (Mohall Dst:

op 15 si 60 op 180 si 270. IF op w/1/4 in blo, incr to 1/2 in/10 min & Dst: held; FF op w/no blo, incr to 1 in/140 min & held. Rec 280 ft SOCM; Dst: Smplr: 2100 cc mud @ 100 psi (Rw .18 ohms @ 71 F, 38,000 ppm Cl). HP Dst:

2330-2304 FP 112-102 115-141 SIP 1790-1720 BHT 130 F Dst:)

#2 4390- 4442 (Haas Dst:

op 15 si 60 op 120 si 180. IF op w/l in blo, incr to 1 psi @ end; FF Dst:

opw/8 in blo, incr to 1 psi/10 min & held. Rec 279 ft VSO&GC muddy wtr Dst: 1554 ft blk sul wtr; Smplr: 2100 cc blk sul wtr @ 30 psi (Rw .04 ohms Dst:

@70 F, 200,000 ppm Cl). HP 2277-2258 FP 55-186 315-868 SIP 1797-1809 Dst:

BHT138 F Dst:

R1084030 Dwights number:

Operator Address

Street or PO Box:

City: State, Zip: Country:

Phone:

E-Mail:

Agent Name: Agent Remark: Fax:

Agent Code:

Nor Jakota State Industrial Commission

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE 6-798

	100			# 2	387
15.		TIVEN		,	101
78	S. S.	Torge al	Ž		

OPERATOR_	Quintana	Petroleut	в Согра	ration F	ELD	4ohall				<u> </u>
TREET	500 Jeffe	rson Bldg	<u> </u>	P	OOL MI	ssion Ca	nvon			
TTY	Houston 2	<u> </u>	5	TATE	rexas		COUNTY	Harri	9	
EASE NAME	Anna V	7. Rouse	et al	W	ELL NO.		ACRE	S IN UN	11T	
	SW SE	tion								
PERMIT NO.	3886	ELECTRIC	OR OT	HER LOGS	RUN? LE	i, GR-Sc	onic .		3/3L	19_63
NUMBER OF	CRUDE OIL P	RODUCING	WELLS	ON THIS I	LEASE, IN	CLUDING	THIS Y	VELL	<u></u>	·-
				DATA ON	TEŞT					
DATE TEST LENGTH OF	COMMENCED.	6/13, 1	19 <u>65</u> H	our 7a. m. :	DATE TES	T COMPL	ETED	6/14	19 <u>.65</u> нс	ur <u>7a.</u> m. MINUTES.
					OR PUMP					
FOR FLOWIN	i g well : Ressure on (64		INCHES
FLOWING PR	RESSURE ON (RESSURE ON)	.s.c		even in	KUMBE	R OF STE	OKES P	FR MINU	TE.	
	TESSERE ON			120, 2798. 114.	ZORKE	NG BARE	RELS _	1-3/4		(SIZE IN.)
SIZE TBG	IN.	u. Type chow	T - /	POS ADJ)						
SIZE CHORE	ESSURE	TIPE CHOR	``	8	IZE TBG.	2-3/8	3	_in. no	. FT. R	UN
was this V	VELL FLOWEI	FOR THE	EKTIRI	DURATIO	N OF THE	IS TEST	WITHOU	T THE U	SE OF	SWAB OR
	IFICIAL DEVI					·				
RESULT	OF THIS TES	T (BBLS, N	ET OIL	PER 24 HR	s.)	3 BOPD				[
GAS-OT	L RATIO OF 1	HIS WELL	IS	299 to 1		(CU. 1	FT. OF G	AS PER E	BL. OF	otr)
PERCEN	T WATER PR	ODUCED D	URING	THIS TEST	57,					
	Y OF OIL PR			ware west	/CORPEC	ידים דים	en: a Dif	, 28 2		
GRAVII	Y OF OIL PH	ם משטטטט	CRING	INIS IESI	(COMMEC	TED TO	- A.I.A.	.,		
DATE WELL	L FORMATION PERFORATING COMPLETED Y	<u> '</u>	ing co 6/8 6	MPANY <u>L</u> 19 65 f	ane Well OUR WEL	e & Down	ell .ETED	2	:15	P. M.
					4404					
	i			WELL.			FT.			
	Ĺ	PLUG BAG	CK DEP	TH	4390.		FT.			
WAS THIS T	WELL CORED?	Ye	5	V	VHAT INT	ERVALS?		4370-	4404'	
GWE DRUL	STEM TEST D	ATA ON RE	VERSE	SIDE OF TH	IIS FORM.					
G1 1 D 21110=	0.000.000			CASING F						
Size	Put in Well Ft. In.	Left in Ft.	Well In.	No. Sacks Cement	Size	Put in Ft	Well In.	Left in	Well In	No. Sacks Cement
8-3/8	Ft. In. 324 9	324	9	140	·		<u> </u>	<u> </u>	•	_
<u> </u>	4404	4404		100	1					
	4399	4399								
			June	10	65	Ouintan	a Petro	leum Cá	rpora	tion
EXECUTED	THIS 21st r	DAY OF	Jane	19		N m		y or Ope		
STATE OF	Texas	- <u>}</u>		-	(Si ₁	(nature)	trak.	2	(Tit	(e)
COUNTY OF		- -J			.,	John	B. Bros	k	1.	nown to me
	ne undersigned rson whose nam red to make thi	us la subscrib	hed to th	e above in:	trument w	he being	by me du	aly sworn	on cath	states that
	nd sworn to b					ine.	····	19	65	
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		1	1 - 1			\mathcal{J}	12	11.	1	TyTi
My Commiss	ion expires		9	/ '	Notary Pub	ue in and	101		_ <u> } }</u>	1,00

10/9/2001 Date: Time: 11:01 AM

IC:

Abandonment Date:

US

1 ANNA V ROUSE ETAL

NORTH DAKOTA State:

BOTTINEAU County:

QUINTANA PET CORP Operator:

33009008850000 API:

D Initial Class:

Target Objective:

DO Final Well Class: OIL

Status:

MOHALL Field:

on SEP 15, 1972 3886 Permit:

3874

Formation: MADISON 4450 Projected TD:

Hole Direction:

Top Form Water Gas Oil IP Summary: MISSION CANYON /ANHY/ PORO/

288 BPD

Location

162 N 83 W 31 Section, Twp., Range:

SW SE Spot Code:

CONGRESS SECTION 1980 FEL 660 FSL Footage NS, EW:

Surface remark:

5TH PRINCIPAL MRD Principal Meridian:

48.8084600 / -101.4827700 Lat/Long:

PBHL:

PHBL remark:

ABHL:

ABHL remark:

TVD: From Surface: ABHL:

Dates and Depths

Spud Date Code: MAY 21, 1965 Spud:

4404 on TD: 4410 LTD:

PlugBack Depth:

JUN 14, 1965 Completed:

Name: MADISON 359MDSN Formation @ TD:

1597 KB Ref. Elevation: 1597 KB. Elevation: 1588 GR Ground Elevation:

CARDINAL DRILLING Contractor:

Rig# Rig Release Date:

IP# 001

MISSION CANYON /ANHY/ PORO/ Top Formation: MISSION CANYON /ANHY/ PORO/

Base Formation: Condst: 288 BPD Oil:

Water: Gas:

Method: PUMPING 4382 - 4402 **GROSS** Interval: Choke:

24 Hours Duration of Test: GOR: 299 28.2

Oil: Gravity:

PERF Prod Method: Top Formation Shots/Ft Cnt Type Interval Perforations:

MISSION CANYON /ANHY/ PO! 4 FT 352MSNC **JET** 4385 4382 -MISSION CANYON /ANHY/ PO 4 FT 352MSNC JΕT 4388 4387 -

MISSION CANYON /ANHY/ PO 4 FT 352MSNC JET 4389 -4395

10/9/2001 Date: Time: 11:01 AM

15

MISSION CANYON /ANHY/ PORC 4 FT 352MSNC **JET** 4402 4392 -4382 - 4402 Interval: 1 Treatments: **ACID** Type: A 1000 GAL Fluid: Additive: Prop Agent: Formation Break Down Pressure: Average Injection Rate: Remarks: Stages: DST # 001 Formation: MADISON S Show: BHT 4366 - 4404 Interval: Bottom: Choke: Top: Rec Method: PIPE **VGHMCO** 2245 FT 1 Recovery: Rec Method: PIPE FΤ VGSMCO 60 2 Recovery: Pressures and Times: Open Time Shut-in Time Shut-in Final Flow Init Flow Hydro Final Final Init Init Final Init Final Init Final Init Final Init 24 30 887 1927 1794 443 2413 2369 001 Core Id: MADISON 359MDSN Formation: Rec: 33 FT 4370 - 4404 Interval: Show Type: OIL CONV Core Type: 1 SS, FINE-GRAINED, ANGULAR, CEMENTED COMPLETELY Description: W/BUFF MARLY DOLO 2 SS, AS ABOVE, BUT CMT IS GREY, SS IS FRIABLE, NO **PORO** 1 DOLO, GREY, MARLY, SILTY, CONCHOIDAL FRACTURE 1 DOLO, NO LONGER SILTY, FEW PHENOCRYSTS CLEAR ANHY 1 DOLO, GREY, MARLY, PATCHES W/MEDIUM TO COARSE CLEAR ANHY CRYSTALS 1 DOLO, SAME AS ABOVE, TRACE SPOTTY STAIN, NO PERMEABILITY FOR 1/2 FT, 1/2 FT DOLO, FINELY CRYS GRANULAR TEXTURE, EVENLY STAINED EXCEPT RARE PATCHES CLEAR ANHY, FAIR TO GOOD VUGGY PORO, PROBABLY GOOD IGRN PORO, EXCELLENT ODOR, NO BLEEDING 2 DOLO, FINELY CRYS, GRANULAR TEXTURE, EVENLY STAINED ALMOST NO ANHY, EXCELLENT IGRN PORO, EXTREMELY FRIABLE, CAN BE CRUMBLED IN FINGERS 2 DOLO, LIGHT GREY, MARLY, TIGHT, NO SHOW 1 LS, BUFF, COARSELY PELLETOID, FAIRLY WELL SORTED FAIR-GOOD INTERPELLETOID PORO, STAIN IN ALL PORO SOME VUGS STILL FILLED W/BROWN OIL, PERM MAY BE LOW 1 DOLO, GREY, MARLY, TIGHT, NO SHOW 1 LS, BUFF, PELLETOID, FINE TO COARSE, POORLY SORTED EXCELLENT VUG PORO, PROBABLY EXCELLENT PERM, STAIN IN ALL VUGS, RARE VUGS STILL HAVE FREE OIL, SLIGHTLY

> 1 LS, AS ABOVE BUT SLIGHTLY LESS P&P, MORE VUGS STILL HAVE FREE OIL

1 LS, AS ABOVE, NO FREE OIL IN VUGS

2 LS, PORO MORE BANDED, PHENOCRYSTS BROWN ANHY

STREAKS GOOD VUGGY PORO

FRIABLE

I MOSTLY LS, BUFF, FINELY CRYS, NO SHOW, W/STREAKS

Date: 10/9/2001
Time: 11:01 AM

Sample

VUGGY PORO, STAIN IN ALL PORO, POOR PAY
2 LS, BUFF, FINELY CRYS, NO SHOW, BANDS DOLO, FINELY
CRYS, POOR-FAIR INTERCRYS PORO, EVENLY STAINED, POOR
PAY

1 LS, BUFF, FINE TO MEDIUM PELLETOID, PHENOCRYSTS CLEAR ANHY, FAIR-GOOD INTERPELLETOID PORO, POOR-FAIR VUGGY PORO, STAIN IN ALL PORO, FEW VUGS W/FREE OIL 1 LS, FINE TO COARSELY PELLETOID, POORLY SORTED, GOOD TO EXCELLENT VUGGY & INTERPELLETOID PORO, STAIN IN ALL PORO, MUD INVASION, TRACE BLEEDING, FRIABLE IN PART, CARRYING WTR, NON-SALTY, STREAKS VERY COARSELY CRYS BROWN ANHY

1 LM, EXCELLENT INTERPELLETOID PORO, FAIR TO GOOD VUG PORO, NO BLEEDING, STAIN IN ALL PORO, FRIABLE FINE TO MEDIUM PELLETOID, NO ANHY, PROBABLY EXCELLENT PERM

2 LS, AS ABOVE BUT PATCHES VERY COARSELY CRYS CLEAR ANHY

1 LS, LIGHT GREY, FINELY CRYS, TIGHT, FLOATING TAN TO BUFF PELLETS, NO SHOW

I LS, AS ABOVE, BUT STREAKS HAVE EXCELLENT SMALL VUG PORO, LINED W/FINE DOLO CRYS, STAIN IN ALL PORO, NO BLEEDING, POOR PAY

1 LS, BUFF, FINE TO COARSELY PELLETOID, EXCELLENT INTERPELLETOID & VUGGY PORO, FRIABLE, STAIN IN ALL PORO, PROBABLY GOOD PERM

1 DOLO, LIGHT GREY, FINELY CRYS, ABOUT 30%, HAS GOOD INTERCRYS PORO, FAIR SMALL VUGGY PORO, STAIN IN ALL PORO, NO BLEEDING, POOR PAY

1 DOLO, AS ABOVE, BUT TIGHT, NO SHOW, GHOST SMALL PELLET STRUCTURE, BANDS FINELY CRYS, BROWN ANHY 1 LS, BUFF, FINELY CRYS, TIGHT, EXCEPT RARE PATCHES W/FAIR-GOOD SMALL VUG PORO, STAINED, NO PAY 1 DOLO, LIGHT GREY, FINELY CRYS, TIGHT, NO SHOW PHENOCRYSTS CLEAR ANHY

Casing, Liner, Tubing

Casing 8 5/8 IN @ 324 w/ 140 sx
Casing 4 1/2 IN @ 4404 w/ 100 sx
Tubing 2 3/8 IN @ 4399 TUBING

Drilling Journal

	Obs.	#	Interv	/al	Ty	pe		_	ormi
Show	1	,,	4366 -	4404	08	zG			- 359MDSN
	2			4404	OI	Ĺ		359MDSN	- 359MDSN
Show		ΙĎ	Тор		Base	Туре	Quality	Form code	Thickness
Porosity 2	Lones	ענו	4376		4377	VUG	Ğ	359MDSN	
		1	4377		4379	IGRN	G	359MDSN	
		2	4377		4382	INST	G	359MDSN	
		3			4388	VUG	G	359MDSN	
		4	4383		4389	VUG	•	359MDSN	
		5	4388		4396	INST	G	359MDSN	
		6	4389			VUG	G	359MDSN	
		7	4391		4396	VUG	u	3371412011	
e Geologist	1	JC	HN DYER	₹ .					

Wellsite Geologist 1 JOHN DYE

Date: 10/9/2001 Time: 11:01 AM

Formations	and	Logs
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	Log # 1 Log # 2	IL AV	@ @	324 - 3406 -	4409 4406				
Top Formation	Lug # 2	Measur Dep	ed	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age
GREENHORN		22	34				LOG		603
DAKOTA		27	69				LOG		602
		39	18				LOG		469
SPEARFISH			46				LOG		353
CHARLES /SALT/ MIDALE /ANHY/			:02				LOG		353
					4287		LOG		352
STATE A MISSION CANYON /ANH	IY/ PO				4376		LOG		352

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: P 288 BOPD 28.2 Grav, 15 BWPD GOR 299:1

Perfs: 4382-4385 (Madison)

Perfs: /4;

Perfs: 4387-4388 (Madison)

Perfs: /4;

Perfs: 4389-4395 (Madison)

Perfs: /4;

Perfs: 4399-4402 (Madison)

Perfs: /4; A overall/1000 gals; PB to 4498.5';

Dst: #1 4366-4404

Dst: , SI/24 min, op 30 min, SI/15 min, rec 2245' v-gassy & HMCO, 60'

Dst: v-gassy & sli MCO, FP 443-887#, SIP 1927-1794#, HP 2413-2369#

Dwights number: R8068740

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

E-Mail:

Agent Name: Agent Remark: Fax:

ı ax.

Agent Code:

Ncia Dakota State Industrial Commission Oil and Gas Division

(9)
RECEIVED # 39/3
100 H 39/3
100 E 200 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2

-302	WELL COMPLETION REPOR
- 2	SEE INSTRUCTIONS OTHER SID

STREET Box 1009 CITY Williston LEASE NAME 3. M. LOCATION NE/4 SE/					
CMY Williston		FX	or Nadisor	<u>)</u>	
	T •	STATE Nort	h Dakota	_COUNTYBottines	<u>u</u>
LEASE NAME 5. M.	LEVIS	WE	LL NO	ACRES IN UNIT.	
LOCATION NE/4 SE/4	SEC.	31 TWP 16	2N RGE 5314	ELEVATION 1602	XXXXXX KB.)
9 01 %	Section				
PERMIT NO. 3925					
NUMBER OF CRUDE ON	L PRODUCING WELL	S ON THIS LE	ASE, INCLUDIN	G THIS WELL. +	
		DATA ON			
DATE TEST COMMENCE	en 8-1 1055	HOTTRE M. D.	TE TEST COMP	TETEN 8-2 186	SHOTE 6 A
LENGTH OF TEST		HOURNI	TIE TEST COM	1,6,1,2,15	MINITER
LENGIR OF TEST					N11.4 U ± 213.
FOR FLOWING WELL:			R PUMPING WEI		
FLOWING PRESSURE OF	N CSGI	.BS. SQ. IN.	LENGTH OF ST	roke 54	INCHES
FLOWING PRESSURE OF		LBS/SQ. IN.	NUMBER OF ST	ROKES PER MINUTE	14
SIZE TBG			WORKING BAR	RELS 2 x 12" x 12	IT (SIZE IN.)
SIZE CHOKEIN.	TYPE CHOKE	_(PO\$.ADJ.)	101	A	
SHUT IN PRESSURE					
WAS THIS WELL FLOW			OF THIS TEST	WITHOUT THE USE	OF SWAB OR
OTHER ARTIFICIAL DE	VICE: 185		"FRELIM	INARY POTENTIAL"	
				219 214 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
RESULT OF THIS T	EST (BBLS, NET OF	L PER 24 HRS.)	, 18		
				FT. OF GAS PER BBL	OF OIL)
				FI. OF GAS FEA BBL	., OF OIL)
PERCENT WATER	PRODUCED DURING	THIS TEST _	<u> </u>		
GRAVITY OF OIL	PRODUCED DURING	THIS TEST (CORRECTED TO	60° A.P.L) 28.6	
					نــــرـــــــــنــ
GEOLOGICAL FORMATI	ON SHOT, PERFOR	ATED OR TREA	TED Maison	FREE 43 83 FT	200 4391 FT.
SHOOTING, PERFORATIONATE WELL, COMPLETE	ng or treating co July 27	OMPANY WII	celi <u>ne Inc. &</u>		
GEOLOGICAL FORMATI SHOOTING PERFORATI DATE WELL COMPLETE TOP OF PAY	ng or treating co July 27	OMPANY #11 1965_HOT	celi <u>ne Inc. &</u>	Dowell	
SHOOTING, PERFORATIONATE WELL, COMPLETE	ng or treating co D July 27 4369	омраку #11 19 <u>65_</u> нот FT.	Teline Inc. &	Dowell LETED	
SHOOTING, PERFORATION OF THE WELL COMPLETE	ng or treating co July 27	омраку #11 19 <u>65_</u> нот FT.	Teline Inc. &	Dowell LETED	
SHOOTING, PERFORATION OF THE WELL COMPLETE	ng or treating co D July 27 4369	OMPANY #11 1965 HOT FT.	Teline Inc. & UR WELL COMP	Dowell LETEDFT.	
SHOOTING, PERFORATION OF THE WELL COMPLETE	ng or treating co July 27 4369 Total depth o	OMPANY #11 1965 HOT FT.	Teline Inc. & UR WELL COMP	Dowell LETEDFT.	
SHOOTING PERFORATION OF PAY	NG OR TREATING CO July 27 4369 TOTAL DEPTH O	OMPANY #11 1065 HOT FT. FWELL	Teline Inc. & UR WELL COMP	Dowell LETED FT. FT.	
SHOOTING PERFORATION OF PAY WAS THIS WELL CORE	ng or treating of July 27 4369 Total depth of the company of the	OMPANY #11 1965 HOT FT. F WELL WH.	Teline Inc. & CR WELL COMP LLL COMP LLL COMP LLL COMP LLL COMP LLL COMP LLL COMP	Dowell LETEDFT.	
SHOOTING PERFORATION OF PAY WAS THIS WELL CORE	TOTAL DEPTH O TOTAL DEPTH O TOTAL DEPTH O TOTAL OF Yes DATA ON REVERSE	FT. FWELL WH. SIDE OF THIS	HA17 HA15 AT INTERVALS	Dowell LETED FT. FT.	
SHOOTING, PERFORATION OF PAY WAS THIS WELL CORES	NG OR TREATING CO. July 27 4369 TOTAL DEPTH O RESERVE COMMON 702 D2. Yes DATA ON REVERSE	FT. F WELL WHE SIDE OF THIS CASING REC	HA17 HA15 AT INTERVALS FORM.	PT	9 Ам
SHOOTING PERFORATION OF PAY WAS THIS WELL CORESTOR DRILL STEM TEST Size Put in Well	NG OR TREATING CO. July 27 4369 TOTAL DEPTH O FORECTOCOCCUE D7 Tes DATA ON REVERSE	FT. FY. FY. FY. WH. SIDE OF THIS CASING REC	LALIT LATINTERVALS FORM. ORD	POWELL FT. FT. FT. 4362 - 4417	9 A M
SHOOTING. PERFORATION OF PAY WAS THIS WELL CORESIVE DRILL STEM TEST Size Put in Well Ft. In.	NG OR TREATING CO. July 27 4369 TOTAL DEPTH O RESERVED CO. Tes DATA ON REVERSE Left in Well Ft. In.	FT. FWELL WH. SIDE OF THIS CASING REC No. Sacks Cement	HA17 HA15 AT INTERVALS FORM.	PT	9 A M
SHOOTING. PERFORATION OF PAY WAS THIS WELL CORESIVE DRILL STEM TEST Size Put in Well Ft In. 8-5/8" 315'	NG OR TREATING CO July 27 4369 TOTAL DEPTH O RESERVED COMMITTEE TOTAL OR REVERSE Left in Well Ft. In. 3154	FT. F WELL WH. SIDE OF THIS CASING REC No. Sacks Cement 300	LALIT LATINTERVALS FORM. ORD	POWELL FT. FT. FT. 4362 - 4417	9 A M
SHOOTING. PERFORATION OF PAY WAS THIS WELL CORESIVE DRILL STEM TEST Size Put in Well Ft. In.	NG OR TREATING CO. July 27 4369 TOTAL DEPTH O RESERVED CO. Tes DATA ON REVERSE Left in Well Ft. In.	FT. FWELL WH. SIDE OF THIS CASING REC No. Sacks Cement	LALIT LATINTERVALS FORM. ORD	POWELL FT. FT. FT. 4362 - 4417	9 A M
SHOOTING. PERFORATION OF PAY WAS THIS WELL CORESIVE DRILL STEM TEST Size Put in Well Ft In. 8-5/8" 315'	NG OR TREATING CO July 27 4369 TOTAL DEPTH O RESERVED COMMITTEE TOTAL OR REVERSE Left in Well Ft. In. 3154	FT. FWELL WH. SIDE OF THIS CASING REC No. Sacks Cement 300 600	LALIT LATINTERVALS FORM. ORD	POWELL FT. FT. FT. 4362 - 4417	9 A M
SHOOTING PERFORATION OF PAY WAS THIS WELL CORESIVE DRILL STEM TEST Size Put in Well Ft In. 8-5/8" 315' 4-1/2" 4416' EXECUTED THIS 2	TOTAL DEPTH O TOTAL DEPTH O POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSE	OMPANY #11 1965 HOT FT. FWELL WH. SIDE OF THIS CASING REC No. Sacks Cement 300 600	Teline Inc. & CR WELL COMP LLA17 LLA15 AT INTERVALS' FORM. ORD Size Put in Ft.	POWELL FT. FT. FT. 4362 - 4417	9 A.M. No. Sacks Cement
SHOOTING PERFORATION OF PAY WAS THIS WELL CORESIVE DRILL STEM TEST Size Put in Well Ft In. 8-5/8" 315' 4-1/2" 4416' EXECUTED THIS 2	TOTAL DEPTH O TOTAL DEPTH O POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSE	FT. FWELL WH. SIDE OF THIS CASING REC No. Sacks Cement 300 600	LIMIT INC. & CR WELL COMP LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT AT INTERVALS' FORM. ORD Size Put in Ft. Amerada I	POWELL LETED FT. YT. 4362 - 4417' Well Left in We In. Ft. In etroleum Corporation (Company or Operator) (Company or Operator)	9 A.M. No. Sacks Cement
SHOOTING PERFORATION OF PAY WAS THIS WELL CORESIVE DRILL STEM TEST Size Put in Well Ft In. 8-5/8" 315' 4-1/2" 4416' EXECUTED THIS 2 STATE OF North Dakot	TOTAL DEPTH O TOTAL DEPTH O POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED TOTAL D POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSESSED T POSSE	FT. FWELL WH. SIDE OF THIS CASING REC No. Sacks Cement 300 600	Teline Inc. & CR WELL COMP LLA17 LLA15 AT INTERVALS' FORM. ORD Size Put in Ft.	POWELL LETED FT. YT. 4362 - 4417' Well Left in We In. Ft. In etroleum Corporation (Company or Operator) (Company or Operator)	11 No Sacks Cement
SHOOTING PERFORATION OF WILLIAMS WAS THIS WELL CORESIVE DRILL STEM TEST Size Put in Well Ft In. 8-5/8" 315' 4-1/2" 4416' EXECUTED THIS 2 STATE OF North Dakot COUNTY OF Williams	NG OR TREATING CO July 27 4369 TOTAL DEPTH O POSSESSED TOTAL DEPTH O POSSESSED TOTAL DEPTH O POSSESSED TOTAL DEPTH O POSSESSED TOTAL DEPTH O POSSESSED TOTAL DEPTH O POSSESSED TOTAL DEPTH O POSSESSED TOTAL DEPTH O POSSESSED TOTAL DEPTH O POSSESSED TOTAL DEPTH O AUGUST DAY OF AUgust August 38	FT. FWELL WH. SIDE OF THIS CASING REC No. Sacks Cement 300 600	Teline Inc. & CR WELL COMP LIMIT LIMIT LIMIT LIMIT AT INTERVALS FORM. ORD Size Put in Ft. Amerada 3 (Signature)	POWELL LETED FT. YT. 4362 - 4417' Well Left in We In. Ft. In etroleum Corporation (Company or Operator) (Company or Operator)	9 A.M. 11 No. Sacks 1. Cement 2.101 2.101 2.101 2.101 2.101 2.101 3.101 3.101 3.101 3.101 4.101 4.101 5.101 5.101 6.101
SHOOTING PERFORATION OF WILL COMPLETE TOP OF PAY WAS THIS WELL CORESIVE DRILL STEM TEST Size Put in Well Ft In. 8-5/8" 315" 4-1/2" 4416' EXECUTED THIS 2 STATE OF North Dakot COUNTY OF Willfams Before me the undersigne	NG OR TREATING CO July 27 4369 TOTAL DEPTH O POSSESSOR D7. Yes DATA ON REVERSE Left in Well Ft. In. 315 4416 DAY OF August 48 d authority, on this design of the control of the	FT. FWELL WH. SIDE OF THIS CASING REC No. Sacks Cement 300 600 st. 1965	Teline Inc. & CR WELL COMP LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT AT INTERVALS FORM. ORD Size Put in Ft. Amerada 3 (Signature)	Powell LETED FT. YT. 4362 - 4417' Well Left in We In. Ft. In Company or Operator Company or Operator Company or Operator Company or Operator Company or Operator Company or Operator Company or Operator Company or Operator Company or Operator Company or Operator Company or Operator	9 A.M. No. Sacks Cement Cement ion iperintendent Title)
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SHOOTING. PERFORATION OF PAY WAS THIS WELL CORESTOR OF PAY WAS THIS WELL CORESTOR OF PAY Size Put in Well Ft In. 8-5/8" 315' 4-1/2" 4416' EXECUTED THIS 2 STATE OF North Dakot COUNTY OF Willfams Before me the undersigned to be the person whose name is authorized to make to	TOTAL DEPTH O TOTAL DEPTH O TOTAL DEPTH O TOTAL DEPTH O TOTAL DEPTH O TOTAL DEPTH O TOTAL DEPTH O AUGUST DATA ON REVERSE Left in Well Ft. In. 315 ³ 4416 ³ DAY OF August ame is subscribed to this report and has known.	FT. FWELL WH. SIDE OF THIS CASING REC No. Sacks Cement 300 600 st 1965	thing Inc. & CR WELL COMP thing thi	Powell LETED FT. YT. 4362 - 4417 Well Left in We In. Ft. In	No. Sacks Cament Light perintendent Title) known to me oath states that
SHOOTING. PERFORATION OF MANAGEMENT OF MANAGEMENT OF MANAGEMENT OF MANAGEMENT OF WILLIAMS Before me the undersigne to be the person whose national data of the person whose nati	TOTAL DEPTH O TOTAL DEPTH O TOTAL DEPTH O TOTAL DEPTH O TOTAL DEPTH O TOTAL DEPTH O TOTAL DEPTH O AUGUST DATA ON REVERSE Left in Well Ft. In. 315 ³ 4416 ³ DAY OF August ame is subscribed to this report and has known.	OMPANY #11 1965 HOT FT. FWELL WH. SIDE OF THIS CASING REC No. Sacks Cement 300 i 600 st. 1965	Amerada F (Signature) ppeared from the company of	Powell LETED FT. FT. FT. Well Left in We In. Ft. Ir Cetrolsum Corporation Company or Operator	No. Sacks Cament Light perintendent Title) known to me oath states that
SHOOTING PERFORATION OF WILL COMPLETE TOP OF PAY WAS THIS WELL CORESTOR OF DESCRIPTION OF WILL STEM TEST Size Put in Well Ft. In. 8-5/8" 315† 4-1/2" 4416† EXECUTED THIS 2 STATE OF North Dakot COUNTY OF Willfams Before me the undersigned to be the person whose name is authorized to make to Subscribed and sworm to	TOTAL DEPTH O TOTAL DEPTH O TOTAL DEPTH O TOTAL DEPTH O TOTAL DEPTH O TOTAL DEPTH O TOTAL DEPTH O AUGUST DATA ON REVERSE Left in Well Ft. In. 315 ³ 4416 ³ DAY OF August ame is subscribed to this report and has known.	SIDE OF THIS CASING REC No. Sacks Cement 300 600 st. 1965	thing Inc. & CR WELL COMP thing thi	Powell LETED FT. YT. 4362 - 4417 Well Left in We In. Ft. In	Il No. Sacks L. Cament Light perintendent Title) known to me oath states that

10/9/2001 Date: Time: 11:01 AM

1 E M DAVIS

NORTH DAKOTA State: County: BOTTINEAU

Operator: AMERADA PETRO CMPNY

33009008990000 API:

Initial Class: D

Target Objective:

Final Well Class: DO

Status: OIL Field: MOHALL

on SEP 15, 1972 3925 Permit:

3913

4500

Abandonment Date:

Projected TD:

Formation: MADISON

Hole Direction:

IP Summary:

Oil

Gas

Top Form

IC:

15 BPD

174 BBL

Water

MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range:

83 W 31 162 N

Spot Code: Footage NS, EW: NE SE 1980 FSL

659 FEL

CONGRESS SECTION

Surface remark:

5TH PRINCIPAL MRD Principal Meridian:

Lat/Long:

48.8120400 / -101.4773300

US

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface: TVD:

Dates and Depths

Spud:

JUL 16, 1965

Spud Date Code:

Name: MISSION CANYON /ANHY/ PORO/

4417 on TD:

LTD:

PlugBack Depth: 4415

Completed: AUG 02, 1965

352MSNC Formation @ TD:

1602 KB Ref. Elevation:

1602 KB. Elevation:

1595 GR Ground Elevation:

HARRELL & HARRELL Contractor: Rig#

Rig Release Date:

IP# 001

Top Formation:

MISSION CANYON /ANHY/ PORO/

MISSION CANYON /ANHY/ PORO/ Base Formation:

Condst: 15 BPD Oil:

Water: 174 **BBL** Gas: Method: PUMPING 4383 - 4391 GROSS Interval:

Choke: Duration of Test: 24 Hours

GOR: Oil: Gravity:

PERF Prod Method:

Shots/Ft Top Formation Perforations: Interval Cnt Туре

5 FT 352MSNC MISSION CANYON /ANHY/ POR 4383 -4383 MISSION CANYON /ANHY/ POR 5 FT 352MSNC 4391 4391 -

#3913

10/9/2001 Date: Time: 11:01 AM

4383 - 4391 Treatments: Interval:

Fluid: ACID Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate: Remarks: Stages:

PD # 001

MISSION CANYON /ANHY/ PORO/ Top Formation: Base Formation: MISSION CANYON /ANHY/ PORO/

10 BPD Oil: Condst:

> Water: 162 Gas: BBL

4383 - 4391 GROSS Interval: Method: PUMPING

Duration of Test: 24 Hours Choke:

Gravity: GOR: Oil:

Prod Method: PERF

Pressures: FTP: SITP:

FCP: SICP:

Perforations: 352MSNC MISSION CANYON /ANHY/ PORO/

Perf Interval: 4383 - 4383 Shots/Ft: 5

Perforations: 352MSNC MISSION CANYON /ANHY/ PORO/

Perf Interval: 4391 - 4391 Shots/Ft: 5

4383 - 4391 100 Treatments: Interval:

> Fluid: 250 GAL ACID Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate: Remarks: Stages:

DST # 001

Show: S Formation: MISSION CANYON /ANHY/ PORO/

4364 - 4417 BHT Interval: Bottom: Choke: Top: Recovery: 240 FT SOHGCM Rec Method: PIPE 1 Rec Method: PIPE Recovery: 2 600 FT SMCO FT Recovery: 3 180 Rec Method: PIPE 0

Pressures and Times:

Recovery:

Hydro **Final Flow** Shut-in Init Flow Open Time Shut-in Time Init Final Init Final Init Final Init Final Init Final Init Final 214 511 1866 2391 2382 90 90

XW

Dst Test Remark: FAIR BLOW THRUOUT

4

Core Id: 001

> Formation: MISSION CANYON /ANHY/ PORO/ 352MSNC Interval: 4362 - 4417 Rec: 50.5 FT

FT

240

Core Type: CONV Show Type: BLDO

Description: 9 ANHY

1 DOLO, GREY, CRYPTO CRYS, TIGHT

14 LM, LIGHT GREY, CRYPTO CRYS, MICROGRAN, SLI DOLO

Rec Method: PIPE

VUGGY PORO, GOOD OSTN, BLDG OIL

9 LM, AS ABOVE, W/INTERBDD ALGAL-PISOLITIC LM 5 ANHY W/THIN INTERBDD LM, TIGHT

3 LM, GREY, CRYPTO CRYS W/ANHY INCLUSIONS

2 of 4

913 Date: 10/9/2001 Time: 11:01 AM

2 LM, ALGAL, VUGGY PORO, SPOTTY OSTN, BLDG OIL

3 LM, CRYPTO CRYS, TIGHT

4 LM, ALGAL, GOOD PORO, OSTN, SALTY TASTE

1/2 LM, CRYPTO CRYS, POOR PORO, NO SHOWS, SALTY TASTE

6 1/2 LOST

Casing, Liner, Tubing

Casing	8 5/8 IN @	315 w/	300 sx
Casing	4 1/2 IN @	4416 w/	600 sx

Drilling Journal

	Obs.	#	In	ters	val	Ty	pe		F	orm .	Sample
Show	1		4362	-	4417	BL	.DO		352MSNC	- 352MSNC	
Show	2		4364	-	4417	08	նG		352MSNC	- 352MSNC	W
Show	3		4364	-	4417	W	ET		352MSNC	- 352MSNC	
Porosity 2	Zones	ID	7	Гор	-	Base	Type	Quality	Form code	Thickness	
		l	43	362	-	4417	VUG		352MSNC		

Formations and Logs

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age code
GREENHORN	2230		•		LOG		603
DAKOTA	2752				LOG		602
PIPER /LM/ SD/ SH/	3626				LOG		552
SPEARFISH	3910				LOG		469
CHARLES /SALT/	4149				LOG		353
MIDALE /ANHY/	4191				LOG		353
MISSION CANYON /ANHY/ PO	4369				LOG		352

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: P 18 BOPD 28.6 Grav, 182 BWPD

Perfs: 4383 (Madison

Perfs: /5;

Perfs: 4391 (Madison

Perfs: /5; A overall/250 GBDA; P/15 BO & 175 BW/PD;

Dst: #1 4364-4417

Dst: , op 1 1/2 hrs, SI/1 1/2 hrs, rec 240' sli O&GCM (3% oil), 600' sli Dst: MCO(90% oil), 180' oil, 240' SW, FP 214-511#, SIP 1866-1866#, HP

Dst: 2391-382#

Cores: #1 4362-4417

Cores: rec 50 1/2': 9' anhy; 1' dolo, gry, crypto-xln to

Cores: micro-xln, sli dolo, vug por, gd oil stn, bledg oil; 14' dolo, some

Cores: oil stn, A.A.; 9' li, A.A., interbd w/algal-piso li; 5' anhy, thinly interbd w/tite li; 3' li, gry, crypto-xln, anhy incls; 2' li, algal, vug por, sptty stn, bledg oil; 3' li, crypto-xln, tite, 4' li, algal, gd por, oil stn, salty taste; 1/2' li, crypto-xln, poor

Cores: por, salty taste, NS; (4 1/2' lost);

Dwights number: R8069130

Operator Address

Street or PO Box:

City:

North Dakota State Industrial Commission Oil and Gas Division

900 EAST BOULEVARD - BISMARCK, NORTH DAKOTA

PLUGGING RECORD

RECEIVED N.D. OIL & GA	000 SW	-	302 300 200
Box 853 Ke	onare,	ND_	5
COUNTY:	Batt	-ina	<u> </u>

NAME OF OPERATOR: Eagle Operati	ng Inc A	DDRESS: _	Box - 853	- Kenmare	, ND <u>58746</u>
WELL NAME AND NO.:City_of_Mohall	#1 FIELD: Mohall		COUNT	Y:Bo	ttineau
LOCATION OF WELL: Qtr., SWSW	Sec.,31	Twp., _	162N	Rge.,	83W
Well is 660	feet from (別) (S) section lin	ne and	610'	feet and from	(W) section line
TOTAL DEPTH: 4520'	ELEV.: 1602		(XXXEXXXXX KB)	ł	
DATE PLUGGED: 1117 25	, 1997 ELECTRIC	OR OTHER	LOGS RUN: _	NA	<u> </u>
NO. OF DSTS RUN: NA (see back)					
IF WELL WAS CORED, INTERVALS CORED:	4412'-4442'		· -		
IF WELL WAS FILLED WITH MUDILADEN FLU	JID, MUD WEIGHT:		lbs./gal.		
NAME OF FIELD INSPECTOR PRESENT DURIS	NG PLUGGING: Mr. Job	Johnson			

WELL RECORD

	C	ASING		P!	LUGS		CEMENT
SIZE	DEPTH SET	WEIGHT NO./FT.	AMOUNT PULLED	TYPE	DEPTH	NO. SACKS	INTERVAL
5/8"	312'	24#	0	cement	3050-2699		3050'-2699'
1/2"	4517'	9.5#	0	cement	2699'	60	2699'-1953' tagged
				cement	290	100	Z9C'-O' see remarks
 +							
\longrightarrow							
\longrightarrow		-					
\longrightarrow	 	 	·			_	
					·		
							
T							

REMARKS:

Perferated 4 $1/2^{m}$ @ 290' cemented to surface casing annulus and left 4 $1/2^{m}$ casing full of cement.

GEOLOGIC MARKERS

Name	Measured Depth of Formation	True Vertical Depth
Greenhorn	2250	-648'
Dakota	2771'	-1169'
Spearfish	3940	-23381
Charles	4177 *	-25751
Midale	42301	-26281
State 'A'	4314'	-2712
Mohall	44061	-2804'

(COMPLETE FORM ON REVERSE SIDE)

Date: 10/9/2001 Time: 11:00 AM

1 CITY OF MOHALL

NORTH DAKOTA State: BOTTINEAU County:

Operator: OUINTANA PET CORP

API: 33009007980000 IC:

Initial Class: WF

Target Objective:

Final Well Class: WFD

Status: OIL Field: **MOHALL**

3573 Permit:

on SEP 15, 1972 #3561

Abandonment Date: 4650 Formation: MADISON

Projected TD: Hole Direction:

IP Summary: Oil Gas Water Top Form

> 40 BPD 17 BBL MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range: 162 N 83 W

> SW SW Spot Code:

Footage NS, EW: 660 FSL 610 FWL CONGRESS SECTION

Surface remark:

Principal Meridian: 5TH PRINCIPAL MRD

> Lat/Long: 48.8085500 / -101.4936300 US

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface: TVD:

Dates and Depths

Spud: APR 28, 1964 Spud Date Code:

4520 on TD:

LTD:

PlugBack Depth: 4482

Completed: MAY 30, 1964

Formation @ TD: 359MDSN Name: MADISON

Ref. Elevation: 1604 KB 1604 KB. Elevation: 1594 GR Ground Elevation:

Contractor:

Rig Release Date: Rig#

IP# 001

Top Formation: MISSION CANYON /ANHY/ PORO/

Base Formation: MISSION CANYON /ANHY/ PORO/

4418 - 4430

Oil: 40 BPD Condst:

Gas: Water: 17 **BBL**

Method: PUMPING Duration of Test: Hours Choke:

Oil: 28.6 GOR: Gravity:

PERF Prod Method:

Water:

Interval:

SWTR Salinity: Type: Temp:

Perforations: Interval Cnt Shots/Ft Top Formation Type

4430 4418 -4 FT 352MSNC MISSION CANYON /ANHY/ POF

3561

10/9/2001 Date: Time: 11:00 AM

Treatments:

l Interval: 4418 - 4430

Fluid:

250 GAL

ACID

Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate:

Stages:

Remarks:

DST # 001

Show: S

Formation: MISSION CANYON /ANHY/ PORO/

Interval:

4402 - 4442

BHT

Choke:

Top: 48/64

Bottom: 48/64 Rec Method: PIPE

Recovery: 1 2 Recovery:

62 FT M 2108 FT 0 3 1054 FT $\mathbf{x}\mathbf{w}$

Rec Method: PIPE Rec Method: PIPE

Recovery: Mat'ls to Surface:

GAS

19

Pressures and Times:

Hydro lnit Final 2413 2376

Init Flow **Final**

Final Flow Init **Final** 215 1326

Shut-in Init Final 2049 1967

Open Time Init Final 240 5

Shut-in Time Init **Final** 90 90

Sample

W

Core ld: 001

Formation:

352MSNC

MISSION CANYON /ANHY/ PORO/ 4412 - 4442

Rec: 30

FT

Interval: Core Type:

CONV

Show Type: OSTN

Description:

3 DOLO, GREY, SANDY, TIGHT

3 DOLO, GREY, POOR PORO, GOOD OSTN 1 DOLO, GREY, TIGHT

1 LM, PELLETOIDAL, FAIR-GOOD PORO, GOOD OSTN

1 ANHY

8 LM PELLETOIDAL, FAIR-EXCELLENT PORO, GOOD OSTN

1 ANHY

6 LM, PELLETOIDAL, FAIR-GOOD PORO, GOOD OSTN

2 LM, FINE CRYS, TIGHT, NO SHOW

4 LM, PELLETOIDAL, FAIR-GOOD PORO, GOOD OSTN

Casing, Liner, Tubing

Casing Casing 8 5/8 IN @ 4 1/2 IN @

312 w/ 4517 w/

200 sx 150 sx

Tubing

2 3/8 IN

4463 TUBING

Drilling Journal

Obs. # Interval Type **Form** Show 1 4402 - 4442 O&G 352MSNC - 352MSNC Show 2 4402 - 4442 O&G 352MSNC - 352MSNC **Porosity Zones** ID Quality Top Base Type Form code Thickness ì 4412 -4442 INST G 352MSNC

Formations and Logs

Log # 1 IL (a)

Log# 2 AV (a)

Top Formation Measured Top Base Base Source Lith-Age Depth TVD Depth TVD ology code SPEARFISH 3940 LOG 469 CHARLES /SALT/ 4178 LOG 353

PI/Dwights PLUS on CI	Scout Ticket	#3561		Date: Time:
Formations and Logs				
MIDALE /ANHY/	4230		1.00	
MISSION CANYON /ANHY/ PO	4410		LOG	353
STATE A	7710	4314	LOG	352
Dwights Energydata Narrative		4514	LOG	352
Accumulated through 1997				
IP:	Madison: P 67 RC	OPD 29.1 Grav, 3 BWP	n	
Perfs:	4418-4430 (Madi		U	
Perfs:	•	s; Swbd 100-120 BOPI) 4 100/ CSI/.	
Dst:	#1 4402-4442	3, 0 #00 100-120 DOF1	J, 4-12% SW;	
Dst:		urs, S1/90 min, GTS 19	min TCTM (2	l L 2122
Dst:	oil. 1054' SW FP	215-1326#, SIP 2049-1	шш, 151 м, гес од 067# Тр 2412 227	mud, 2108'
Dwights number:	R8065610	213-1320m, BH 2043-1	901#, NF 2413-237	0#
Operator Address				
Street or PO Box:				
City:				
State, Zip:				
Country:	,			
Phone:		Fax:		
E-Mail:		143,		
Agent Name:		Agent Code:		
Agent Remark:				

10/9/2001 11:00 AM FORM 6

North Dakota State Industrial Commission Oil and Gas Division



WELL COMPLETION REPORT.

SEE INSTRUCTIONS OTHER SIDE

OPERATOR Monsanto Company FIELD Mohall Description of the Surgest Suite 500, 700 S. Colorado Blvd. Pool Madison (Mohall)
Denver STATE COLORADO 80222 COUNTY BULLINEAU
VEARE NAME Wade WELL NO ACRES IN UNIT 80
LOCATION SW MW SEC 32 TWP 162N RGE 83W ELEVATION 1605 (SWXXX, KD.)
PERMIT NO. 8164 ELECTRIC OR OTHER LOGS RUN" YES December 10. 1980
NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE. INCLUDING THIS WELL 1
DATA ON TEST. :
DATE TEST COMMENCED duly 28, 19 8 HOURZ AM. DATE TEST COMPLETED July 29, 1981 HOUR Z AM. LENGTH OF TEST 24 HOURS 0 MINUTES
LENGTH OF TEST 24 HOURS
FOR FLOWING WELL: FOR PUMPING WELL:
FLOWING PRESSURE ON CSG LBS/SQ IN LENGTH OF STROKE 120 INCHES
FLOWING PRESSURE ON TEG LBS. SQ. IN. NUMBER OF STROKES PER MINUTE 10 SIZE TEG IN WORKING BARRELS 2 SIZE IN.
SIZE TBGIN WORKING BARRELS (SIZE IN.) SIZE CHOKE IN. TYPE CHOKE (POS.ADJ.)
SHUT IN PRESSURE SIZE TEG. 2-7/8 IN NO. FT. RUN 4400
WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR
OTHER ARTIFICIAL DEVICES Not applicable
RESULT OF THIS TEST (BBLS, NET OIL PER 24 HRS.)
GAS-OIL BATIO OF THIS WELL IS. 140 (CV. FT. OF GAS PER BBL, OF OIL)
PERCENT WATER PRODUCED DURING THIS TEST
GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 27.5
NAME OF PIPE LINE OR OTHER CARRIER Koch Oil Company
IF SHOT DATENO QTS. USED
IF PERFORATED: NO. HOLES PER FT. See back if ACIDIZED: NO. GALS. USED See back
GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED. See back FROM FT. TO FT.
SHOOTING. PERFORATING OR TREATING COMPANY Dresser-Atlas DATE WELL COMPLETED May 16, 19 81 HOUR WELL COMPLETED 4:00 P.M.
PARK WELL COMPLETED MAY 16. 19 81 HOUR WELL COMPLETED
DALE WILL COM EDITION OF THE PROPERTY OF THE P
TOP OF PAY 4363 FT.
TOP OF PAYFT.
TOP OF PAY 4363 FT. TOTAL DEPTH OF WELL 4432 FT.
TOP OF PAYFT.
TOP OF PAY 4363 FT. IOTAL DEPTH OF WELL 4432 FT.
TOP OF PAY 4363 FT. IOTAL DEPTH OF WELL 4432 FT.
TOP OF PAY 4363 FT. TOTAL DEPTH OF WELL 4432 FT. PLUG BACK DEPTH FT.
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TOP OF PAY 4363 FT. TOTAL DEPTH OF WELL 4432 FT. PLUG BACK DEPTH FT. WAS THIS WELL CORED: NO WHAT INTERVALS? GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Plt in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement 8-5/8" 311' Same 220 5-1/2" 4422' Same 272 ENECUTED THIS 22nd DAY OF September 19 81 MONSANTO COMPANY **Company or Operator** **Company or Operator** **Company or Operator** **Company or Operator** **STATE OF Colorado (Signature) (Title)
TOP OF PAY 4363 FT. TOTAL DEPTH OF WELL 4432 FT. PLUG BACK DEPTH FT. WAS THIS WELL CORED: NO WHAT INTERVALS! GIVE DRIEL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement 8-5/8" 311' Same 220 5-1/2" 4422' Same 272 ENECUTED THIS 22nd DAY OF September 19 81 MONSANTO COMPANY STATE OF Colorado (Signature) Regional Production Mgr. COUNTY OF Arapaboe
TOP OF PAY 4363 FT. TOTAL DEPTH OF WELL 4432 FT. PLUG BACK DEPTH FT. WAS THIS WELL CORED: NO WHAT INTERVALS: FT. GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement 8-5/8" 311' Same 220 5-1/2" 4422' Same 272 ENECUTED THIS 22nd DAY OF September 19 81 MONSANTO COMPANY STATE OF Colorado (Signature) Regional Production Mgr. COUNTY OF Arabahoe Before me the undersigned authority, on this day personally appeared E. M. Scholl known to me
TOP OF PAY 4363 FT. TOTAL DEPTH OF WELL 4432 FT. PLUG BACK DEPTH FT. WAS THIS WELL CORED: NO WHAT INTERVALS! GIVE DRIEL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement 8-5/8" 311' Same 220 5-1/2" 4422' Same 272 ENECUTED THIS 22nd DAY OF September 19 81 MONSANTO COMPANY STATE OF Colorado (Signature) Regional Production Mgr. COUNTY OF Arapaboe
TOP OF PAY 4363 FT. TOTAL DEPTH OF WELL 4432 FT.
TOP OF PAY 4363 FT. TOTAL DEPTH OF WELL 4432 FT.
TOP OF PAY 4363 FT. TOTAL DEPTH OF WELL 4432 FT.

Date: 10/9/2001 11:02 AM Time:

1 WADE

NORTH DAKOTA State: BOTTINEAU County:

MONSANTO CO ETAL Operator:

33009014330000 API:

 \mathbf{p} Initial Class:

Target Objective:

Final Well Class: DO

OIL Status: MOHALL

Field:

on JAN 15, 1982 Permit: 8164

Abandonment Date:

Water

Projected TD:

4400

Formation: MADISON

Hole Direction:

IP Summary:

Gas

Oil 10 BPD Top Form MOHALL

IC:

Location

83 W 162 N Section, Twp., Range:

Spot Code: SW SW NW

CONGRESS SECTION 500 FWL 2140 FNL Footage NS, EW:

Surface remark:

5TH PRINCIPAL MRD Principal Meridian:

Lat/Long:

US 48.8153700 / -101.4725600

PBHL:

PHBL remark:

ABHL:

ABHL remark:

TVD: From Surface: ABHL:

Dates and Depths

Spud Date Code: DEC 01, 1980 Spud:

4432 on TD:

LTD:

PlugBack Depth:

JUL 29, 1981 Completed:

Name: MADISON 359MDSN Formation @ TD:

1603 KB Ref. Elevation: 1603 KB. Elevation: 1592 GR Ground Elevation:

BOMAC EXPLORATION COMPANY Contractor:

31 Rig# Rig Release Date:

IP# 001

MOHALL Top Formation:

Base Formation:

Condst: 10 BPD Oil: Water: Gas:

Method: PUMPING Interval:

Choke: Hours Duration of Test: GOR: 140 28 Gravity: Oil:

PERF Prod Method:

Top Formation Shots/Ft Type Cnt Perforations: Interval

MOHALL 352MHLL

INT NOT RPTD 001 Remarks on IP Test #

PD # 001

1 of 3

Date. 10/7/2001 11:02 AM Time:

MOHALL Top Formation:

Base Formation: **MOHALL**

Oil:

Water: Gas: Method: UNDESIGNATED 4363 - 4368 Interval:

Condst:

Choke: Duration of Test: Hours GOR:

Oil: Gravity:

PERF Prod Method: MOHALL 352MHLL Perforations:

Shots/Ft: 4363 - 4368 Perf Interval: Interval Perf Count: NOTCH

Type of Perfs:

4363 - 4368 100 Interval: Treatments: **ACID**

Type: A 700 GAL Fluid: HCL

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate:

Remarks: 15% Stages:

SQZD W/65 SX Remarks on PT Test # 001

PD # 002

MOHALL Top Formation: MOHALL Base Formation: Condst:

Oil: Water: Gas:

Method: UNDESIGNATED 4368 - 4368 Interval:

Choke: Hours Duration of Test: GOR:

Gravity: Oil:

PERF Prod Method: MOHALL 352MHLL Perforations:

4368 - 4368 Shots/Ft: Perf Interval: Interval Perf Count: NOTCH Type of Perfs:

4368 - 4368 Interval: 101 Treatments:

500 GAL ACID Type: A Fluid:

HCL Additive:

Prop Agent: Formation Break Down Pressure:

Average Injection Rate:

Remarks: 15% Stages:

SOZD W/49 SX Remarks on PT Test # 002

PD#003 Top Formation: MOHALL

> MOHALL Base Formation: Condst: Oil:

BBL Water: 22 Gas: Method: SWABBING Interval: 4363 - 4363

Choke: 4 Hours Duration of Test:

GOR: Gravity: Oil:

Prod Method: **PERF**

SITP: FTP: Pressures: SICP: FCP:

MOHALL 352MHLL Perforations: Shots/Ft: 4363 - 4363 Perf Interval:

Interval Perf Count: NOTCH Type of Perfs:

Date: 10/9/2001 11:02 AM Time:

Treatments:

102

Interval:

4363 - 4363

Fluid:

300 GAL

HCL

ACID Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate:

Stages:

Remarks: 15%

DST # 001

Show:

Formation: MOHALL

Interval:

4360 - 4373

Choke: Recovery:

Top: 90

Bottom: Rec Method: PIPE **HGCO**

BHT

GCOXW

Rec Method: PIPE

Recovery: Recovery:

1 2 3

S

FT 93 1600 CC

FT

HGCO

Rec Method: SMPL CHAMBER

Pressures and Times:

Hydro Init Final 2326 2344

Init Flow Final Init 50 50

Final Flow Init Final 125 84

Shut-in Final Init 950 1058

Open Time Final Init 15 120 Shut-in Time **Final** Init

240 60

Casing, Liner, Tubing

Casing Casing Tubing

8 5/8 IN @ 5 1/2 IN @

311 w/ 4432 w/ 220 sx 378 sx

4400 TUBING

Formations and Logs

ILDL @ Log# 1

309 - 4405

309 -4405 DN **a** Log# 2 309 - 4405

2 7/8 IN

Log# 3 **NEC** (a)309 - 4405 Log # 4 GR (a)

309 - 4405 Log # 5 DR (a) AVC

309 - 4405

Dwights Energydata Narrative

Accumulated through 1997

Dst:

Log# 6

#1 4360- 4373 (Mohall

Dst:

op 15 si 60 op 120 si 240. Rec 90 ft HGCO, 93 ft GCO w/tr sulfur wtr.

Dst:

HP 2326-2344 FP 50-50 84-125 SIP 950-1058

Dwights number:

R1119260

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

Fax:

E-Mail:

Agent Name:

Agent Code:

Agent Remark:

The state of the s

North Dakota State Industrial Commission Oil and Gas Division PLUGGING RECORD # 5469 # 5469

SEE INSTRUCTIONS OTHER SIDE

(Within 30 days after the plugging of any well has been accomplished, the owner or operator thereof shall file this form with the State Geologist, setting forth in detail the method used in plugging the well.) Earl Schwartz Co. Mohall Field FIELD. Wade #1 LEASE NAME. ___WELL NO._ Twp 162 RGE 83 5481 Madison PERMIT NO. _POOL 1593 Bottineau ELEVATION ___(D.F., G.R., K.B.) COUNTY_ Earl Schwartz Co. ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:___ Kenmare STATE North Dakota CITY_ August 6 __19__74__ DATE WELL WAS PLUGGED_ 4386 ft. TOTAL DEPTH. ELECTRIC OR OTHER LOGS RUN?___ Mone WAS THIS WELL CORED?____ Yes ___ IF SO, GIVE INTERVALS 4365' - 4386' WAS THE WELL FILLED WITH MUD LADEN FLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRI-AL COMMISSION? Yes HOW WAS MUD APPLIED? WERE PLUGS USED? Yes IF SO SHOW ALL SHOULDERS LEFT FOR CASING, SIZES AND LENGTHS OF CASING, SIZE AND KIND OF PLUGS USED, AND DEPTHS PLACED. ALSO AMOUNT OF CEMENT AND ROCK. Well plugged by Halliburton, cement plugs set as follows: 30 sks. top of Mohall pay 43621 30 sks. top of Charles 41491 30 sks. top of Spearfish 3910' 30 sks. top of Dakota 2752^t 30 sks. Base of Surface Pipe, 10 sks top of surface pipe WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS?____ GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM Plugg report received from Erling Barstow EXECUTED THIS 16th DAY OF August 19._74 Earl Schwartz Co. (Company or Operator) STATE OF North Dakota Operator COUNTY OF Ward Signature) (Title) Before me the undersigned authority, on this day personally appeared Earl Schwartz to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that

Subscribed and sworn to before me this the 16th day of August 19 74

My Commission expires December 11, 1975

My Commission expires December 11, 1975

Notary Public in and for Ward County

he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Date: 10/9/2001 Time: 11:02 AM

IC:

Abandonment Date:

1 WADE

State: NORTH DAKOTA County: BOTTINEAU

Operator: SCHWARTZ EARL

API: 33009011340000

Initial Class: D

Target Objective:

Final Well Class: D

> Status: D&A-O Field: MOHALL

Permit: 5481

on JAN 15, 1975 #5469

Projected TD: 4400 Formation: MADISON

Hole Direction:

Location

Section, Twp., Range: 32 162 N 83 W

> C SW NW Spot Code:

Footage NS, EW: 1980 FNL 660 FWL CONGRESS SECTION

Surface remark:

Principal Meridian: 5TH PRINCIPAL MRD

Lat/Long: 48.8158000 / -101.4719000 US

PBHL:

PHBL remark:

ABHL: ABHL remark:

ABHL: From Surface: TVD:

Dates and Depths

AUG 01, 1974 Spud: Spud Date Code:

TD: 4386 on

LTD:

PlugBack Depth:

Completed: AUG 15, 1974

Formation @ TD: 359MDSN Name: MADISON

Ref. Elevation:

KB. Elevation:

Ground Elevation: 1593 GR NAKOTA

Contractor: Rig Release Date:

Rig#

Core Id: 001

> Formation: 352MHLL MOHALL

Interval: 4365 - 4386 Rec: 21 FT

Core Type: CONV Show Type: OIL

Description: 21 LM, F XLN-SUCROSIC, ANHY, FR PORO, PR PERM, OIL

Casing, Liner, Tubing

Casing 8 5/8 IN @ 205 w/ 160 sx

Drilling Journal

Obs. # Interval Type Form Sample Show 1 4365 - 4370 OIL 352MHLL - 352MHLL **Porosity Zones** Ш Top -Base Type Quality Form code **Thickness** 1 4365 4386 POR 352MHLL

Formations and Logs

#5469

Date: 10/9/2001 Time: 11:02 AM

Formations and Logs

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age code
DAKOTA	2752		- · · · · ·		SPL	ology	-
SPEARFISH	3910				SPL SPL		602 469
CHARLES /SALT/	4149				SPL		353
MOHALL	4362				SPL		
Desights Energydate Nametice	.502				SEL		352

Dwights Energydata Narrative

Accumulated through 1997

Cores:

4365- 4386

Dwights number:

R8084690

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

E-Mail:

Agent Name:

Agent Remark:

Fax:

Agent Code:

kota State Industrial Commis Oil and Gas Division



FORM 6	N	or kota	State Industrial	Commis	MERCI
, , *	113821	Oil O	and Gas Division		N. WELL
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A	merada Petrole	um Corporati	on field	Mohall	Mark Tulore contra
OPERATOR F	0. Box 1009		PODE.		
STREET	filliston	s	TATE North Dak	otacoun	TY Bottineau
	Mohell Park		WELL NO) <u>1</u> A(CRES IN UNIT_ 80
· DC / THOY B	0S/4 SW/4	SEC <u>3+</u>	TWP_162N1	_{IGE 83W} flf Schlumberger	VATION 1595 (ME)
	2010		TER LOGS RUN?	Wireline Inc	March 19
PERMIT NO.		CTRIC OR OIL	ON THIS LEASE,	INCLUDING THE	IS WELL 1
NUMBER OF	CRUDE OIL PROD	OCING WELLCO			
			DATA ON TEST		Same Buckey
NATE TEST ?	COMMENCED 3-2	<u>1965</u> но	OUR PM DATE T	EST COMPLETE	<u>3-26</u> 1965но
LENGTH OF		<u>, </u>	HOURS		
			FOR PUT	IPING WELL:	
FOR FLOWIN	G WELL:	·	S SQ IN LENG	TH OF STROKE	54
FLOWING PR	ESSURE ON USG		S. SQ. IN. NUM	BER OF STROKE	S PER MINUTE 12' (
FLOWING PH	ESSURE ON TEG		T.O.	KING BARRELS	2 x 14" x 12'
SIZE TBG	IN. TYP	r chokr			
				<u>g. 2-3/6" od b</u>	NE IN. NO. FI R
SHUT IN PRI	ESSURE FLOURED FO	OR THE ENTIR	DURATION OF	THIS TEST WITH	HOUT THE USE OF
WAS THIS V	VELL FLOWED FO IFICIAL DEVICE:	_ NO		HDun 1 imf name	Potential Test"
OTHER ART	IFICIAL DEVICE.			Preliminary	TOORHOUSE ICSO
GRAVII	TY OF CIL PRODU	UCED DURING	THIS TEST (COR	RECTED TO 60'	A.P.I.) 29.1
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NAME OF PI IF SHOT: D IF PERFORA GEOLOGICA SHOOTING. DATE WELL TOP OF PA WAS THIS GIVE DRILL Size 8-5/8*	TED: NO. HOLES L FORMATION S: PERFORATING OF COMPLETED Y WELL CORED? STEM TEST DAT Put in Well Ft. In.	PER FT. 2 PER FT. 2 HOT. PERFORA R TREATING CO BICH 21 HOS OTAL DEPTH O LUG BACK DE: Yes A ON REVERSE Left in Well Ft. In.	U. S. Crude NO. QT: IF ACH TED OR TREATEL DMPANY WITEL 19 65 HOUR FT. F WELL WHAT SIDE OF THIS FO CASING RECOR No. Sacks: Size Cement 300 120	Dil Purchasin S. USED DIZED: NO. GALS Mission Cany De. Inc. and WELL COMPLETS 27 24 INTERVALS? Put in We Ft. I	g Company S. USED 250 gals FROM 1408 FT. TO FORMAL THE PROPERTY OF THE PROP
NAME OF PI IF SHOT: D IF PERFORA GEOLOGICA SHOOTING. DATE WELL TOP OF PA WAS THIS GIVE DRILL Size 8-5/8* 4-1/2*	Put in Well Ft. in.	PER FT. 2 PER FT. 2 HOT. PERFORA R TREATING CO BICH 21 HOS OTAL DEPTH O LUG BACK DE: Yes A ON REVERSE Left in Well Ft. In.	U. S. Crude NO. QT. IF ACH TED OR TREATEL DMPANY WITELT 19 65 HOUR FT. F WELL WHAT SIDE OF THIS FO CASING RECOR No. Sacks: Size Cement 300 120	Oil Purchasin S. USED DIZED: NO. GALS Mission Cany Mission Cany De. Inc. and WELL COMPLETY 27 24 INTERVALS? Put in We Ft. I	g Company S. USED 250 gals FROM 1408 FT. TO TOWNELL Inc. FT. FT. L304 Lb27*
NAME OF PI IF SHOT: D IF PERFORA GEOLOGICA SHOOTING. DATE WELL TOP OF PA WAS THIS GIVE DRILL Size 8-5/8" 1-1/2" EXECUTED	THIS 26 DA	PER FT 2 HOT. PERFORA R TREATING CO ATCH 21 408 OTAL DEPTH O LUG BACK DE Yes A ON REVERSE Left in Well Ft. In. 312 4426	U. S. Crude NO. QT: IF ACH TED OR TREATEL DMPANY WITEL 19 65 HOUR FT. F WELL WHAT SIDE OF THIS FO CASING RECOR No. Sacks: Size Cement 300 120	Oil Purchasin S. USED DIZED: NO. GALS Mission Cany Mission Cany De. Inc. and WELL COMPLETY 27 24 INTERVALS? Put in We Ft. I	G Company S. USED 250 gals FROM those FT. To Towell Inc. ED 2 FT. FT. L304 - bb278 The line Ft. In.
NAME OF PI IF SHOT: D IF PERFORA GEOLOGICA SHOOTING. DATE WELL TOP OF PA WAS THIS GIVE DRILL Size 8-5/8* 1-1/2* EXECUTED STATE OF	THIS 26 DA	PER FT 2 HOT. PERFORA R TREATING CO ATCH 21 408 OTAL DEPTH O LUG BACK DE Yes A ON REVERSE Left in Well Ft. In. 312 4426	U. S. Crude NO. QT: IF ACH TED OR TREATEL DMPANY WITEL 19 65 HOUR FT. F WELL WHAT SIDE OF THIS FO CASING RECOR No. Sacks: Size Cement 300 120	Oil Purchasin S. USED DIZED: NO. GALS Mission Cany Mission Cany De. Inc. and WELL COMPLETY 27 24 INTERVALS? Put in We Ft. I	g Company S. USED 250 gals FROM 1408 FT. TO TOWNELL Inc. ED 2 FT. FT. Lact in Well Ft. In. Fr. In.
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NAME OF PI IF SHOT: D IF PERFORA GEOLOGICA SHOOTING. DATE WELL TOP OF PA WAS THIS GIVE DRILL Size 8-5/8" 1-1/2" EXECUTED STATE OF COUNTY C Before me to be the p he is autho	THIS 26 DA Rorth Dakota THIS 26 DA Rorth Dakota The undersigned acceptive of the undersigned accept	PER FT. 2 PER FT. 2 HOT. PERFORA R TREATING CO BITCH 21 HOS OTAL DEPTH O LUG BACK DE: Yes A ON REVERSE Left in Well Ft. In. 312 1426 Y OF Man is subscribed to report and has k	U. S. Crude NO. QT IF ACH IF ACH TED OR IREATEL DMPANY WITEL 19 65 HOUR FT. F WELL WHAT SIDE OF THIS FO CASING RECOR No. Sacks: Size Cerrent 300 120 19.65 day personally app the above instrume mowledge of the fact	Dil Purchasin S. USED DIZED: NO. GALS Mission Cany De. Inc. and WELL COMPLETS 27 24 INTERVALS? Put in We Ft. I (Signature) eared R.	G. Company S. USED 250 gals FROM 1408 FT. TO TOWNELL Inc. FT. FT. Lact in Well Ft. In. Fr. In. Fr. In. Formall Corporation Sight Super (T. G. Fuller
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My Commission expires C. W. VORACHEK, NOTARY PUBLIC MY COMMISSION EXPIRES OCT. 12, 1962. Notary Public in and for Williams Co.

10/9/2001 Date: Time: 11:01 AM

1 MOHALL PARK

State:

NORTH DAKOTA

BOTTINEAU County:

AMERADA HESS CORP

Operator: API:

33009008710000

 \mathbf{D} Initial Class:

Target Objective:

Final Well Class:

DO OIL

Status:

Field:

MOHALL

3840 Permit:

on SEP 15, 1972

38 Å8

Projected TD:

4500

Formation: MISSION CANYON /ANHY/ PORO/

Hole Direction:

IP Summary:

Oil

Gas

Water

Abandonment Date:

Top Form

IC:

100 BPD

16 BBL

MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range:

31

83 W 162 N

NE SW

1977 FSL

1875 FWL

CONGRESS SECTION

Surface remark:

Spot Code:

Principal Meridian:

Footage NS, EW:

5TH PRINCIPAL MRD

Lat/Long:

48.8121200 / -101.4883900

US

PBHL:

PHBL remark:

ABHL:

ABHL remark: ABHL:

From Surface:

TVD:

Dates and Depths

Spud:

MAR 08, 1965

Spud Date Code:

Name: MISSION CANYON /ANHY/ PORO/

TD:

4427 on LTD:

PlugBack Depth:

Completed:

MAR 21, 1965

Formation @ TD:

352MSNC

Ref. Elevation:

1595 KB

KB. Elevation:

1595

Ground Elevation:

1587 GR

Contractor:

HARRELL & HARRELL

Rig Release Date:

Rig#

IP# 001

Top Formation: Base Formation: MISSION CANYON /ANHY/ PORO/ MISSION CANYON /ANHY/ PORO/

Oil:

100 BPD

Condst:

Gas:

4408 -

BBL Water: 16

Interval:

4408 - 4420

Method: PUMPING Choke:

Duration of Test:

24 Hours

Oil:

Gravity:

GOR: 22

Prod Method:

28.7

PERF

Cnt

Shots/Ft Type

Top Formation

Perforations:

Interval 4420

JET

2 FT 352MSNC

MISSION CANYON /ANHY/ POI

Treatments:

Interval: 1

4408 - 4420

3828

Date: 10/9/2001 Time: 11:01 AM

Fluid: ACID Type: A
Additive:
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate:

PD # 001

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/

Stages:

Oil: 73 BPD Condst:

Gas: Water:

Remarks:

Interval: 4408 - 4420 Method: SWABBING

Duration of Test: 24 Hours Choke:

Oil: Gravity: GOR:

Oil: Gravity: GOR: Prod Method: PERF

Pressures: FTP: SITP: SICP:

FCP: SICP:
Perforations: 352MSNC MISSION CANYON /ANHY/ PORO/

Perforations: 352MSNC MISSION CANYON /ANHY/ PORO/
Perf Interval: 4408 - 4420 Shots/Ft: 2

Type of Perfs: JET Interval Perf Count:

Treatments: 100 Interval: 4408 - 4420

Fluid: 250 GAL ACID Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate: Stages: Remarks:

DST # 001

Show: S Formation: MISSION CANYON /ANHY/ PORO/

Interval: 4399 - 4427 BHT
Choke: Top: Bottom:

Recovery: 1 1346 FT O Rec Method: PIPE Recovery: 2 90 FT XW Rec Method: PIPE

Mat'ls to Surface: GAS 90

Pressures and Times:

Open Time Shut-in Time Shut-in **Final Flow** Init Flow Hydro Init Final Final Init Final Init **Final** Init Final Init Final Init 90 90 1908 135 610 2400 2377

Dst Test Remark: REVERSED OUT

Core Id: 001

Formation: 352MSNC MISSION CANYON /ANHY/ PORO/

Interval: 4394 - 4427 Rec: 31.4 FT

Core Type: CONV Show Type: OSTN

Description: 3 SS

1 DOLO, DENSE, TIGHT

2 DOLO, MICRO CRYS, FAIR PORO, GOOD OSTN

4 LM, DENSE, TIGHT

15 LM, ALGAL, PISOLITIC, VUG & INTERFRAG PORO, OSTN

3 DOLO, MICRO CRYS, VUG PORO, NO SHOW

3.4 LM, MICRO CRYS, POOR VUG PORO, POOR OSTN

1.6 NO RECOVERY

#3828

Date: 10/9/2001 Time: 11:01 AM

Sample

Casing, Liner, Tubing

312 w/ 300 sx 8 5/8 IN @ Casing 770 sx 4426 w/ 4 1/2 IN @ Casing

Drilling Journal

	Obs.	#	Int	terv	/al	Ty	pe		Fo	orm
Show	1		4394	-	4427	08	έG		352MSNC	- 352MSNC
Show	2		4394	-	4427	WI	ĒΤ		352MSNC	- 352MSNC
Porosity 2	Zones	ID	1	`op	-	Base	Туре	Quality	Form code	Thickness
•		1	43	394	_	4427	VUG		352MSNC	

Fermations and Logs

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age code
GREENHORN	2237		-		LOG		603
PIPER /LM/ SD/ SH/	3637				LOG		552
CHARLES /SALT/	4162				LOG		353
MIDALE /ANHY/	4216				LOG		353
MISSION CANYON /ANHY/ PO	4393				LOG		352
STATE A			4302		LOG		352

Dwights Energydata Narrative

Accumulated through 1997

Madison: P 115 BOPD 29.1 Grav, 5 BWPD IP:

4408-4420 (Madison Perfs:

/2; A/250 GMCA; S/73 BO/7 hrs; Perfs:

#1 4399-4427 Dst:

, op 1 1/2 hrs, SI/1 1/2 hrs, GTS 1 1/2 hrs, rec 1346' oil, 90' SW, FP Dst:

135-610#, SIP 1908#, HP 2400-2377# Dst:

#1 4394-4427 Cores:

rec 31.4': 3' sd; 1' dolo, dns, tite; 2' dolo, Cores:

micro-xln, fair por, gd oil stn; 4' li, dns, tite; 15' li, algal, Cores: piso, vug & inter-frag por, some oil stn; 3' dolo, micro-xln, vug Cores:

por, NS; 3.4' li, micro-xln, poor vug por, poor oil stn; (1.6' Cores:

Cores: lost);

R8068280 Dwights number:

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

E-Mail:

Agent Name:

Fax:

Agent Code:

Agent Remark:

RECEIVED OF Survey

Industrial Commission of the State of North Dakota

SEE INSTRUCTIONS ON OTHER SIDE

FORM 4

Refer to Permit No. 3843

3831

t.	Notice of Intention to Drill or Redrill	7.	Report of Casing	
2.	Notice of Intention to Change Plans	8.	Report of Redrilling or Repair	<u> </u>
3.	Notice of Intention to Pull Casing	9.	Supplementary History	 -
4.	Notice of Intention to Abandon Well	1	Well Potential Test	· -
5.	Report of Water Shut-Off	11	Notice to Change Well Name and Status	+
6.	Report of Shooting or Acidixing	12	Didons	^A

SUNDRY NOTICES AND REPORTS ON WELLS

(Indicate nature of notice by proper check mark in space above)

NAME OF	LEASE_	Mohall	SWD			Date _	June 10	19 <u>_65</u> _
WELL NO.	1	is located_	1980 ft.	from (N)	(S) line and_	660	_ft. from the	(E) (W) line of
Section	36	Towns	hip	162-N	Range_	84-W	in Reny	Tille County
Mohall	Field	ŧ	Peal.	The elev-	ation of the R	Œis	1615 _{fee}	it above sea level.
Name and Address of Contractor, or Company which will do work is:								
								·

(DETAILS OF WORK)

tState names of, and expected depth of objective sands: show sixes, weight, and lengths of proposed casing, indicate mud weights, cementing points, and all other details of work).

This Notice is to change name of well from Melvin Duerre No. 1 to Mohall SWDW No. 1 and well status from temporarily abandon to salt water disposal well.

TD 4,480' - PBD 2967' - 4-1/2" OD csg set at 3,000'.

Wireline perforated 4-1/2" OD csg from 2828 - 2908' with 160 jet shots, 2 HPF. Ran 91 jts. 2-3/8" OD EUE 4.7# 8 Rd J-55 R-2 smls tbg with Baker full bore upstrain packer on bottom. Tbg. set at 2787' and packer at 2794'. Installed injection head. Constructing disposal system.

Company Amerada Petroleum Corporation	Do not write in this space
Address Box 1009 - Williston, North Dakota	ApprovedIune 1
By Gullon R. G. Fuller	BUMINAL MASSACT
TitleDistrict Superintendent	Title

Date: 10/9/2001 10:54 AM Time:

1 MOHALL SWD-1

State: NORTH DAKOTA

RENVILLE County:

AMERADA PETRO CMPNY Operator:

> IC: 33075002920000 API:

Initial Class: D

Target Objective:

Final Well Class: U

> **SERVOG** Status: **MOHALL** Field:

3843 Permit:

on SEP 15, 1972

3831

4500 Projected TD:

Abandonment Date: Formation: MISSION CANYON / ANHY/ PORO/

Hole Direction:

Location

162 N 84 W Section, Twp., Range: 36

> Spot Code: C NE SE

Footage NS, EW: 1980 FSL 660 FEL CONGRESS SECTION

Surface remark:

5TH PRINCIPAL MRD Principal Meridian:

> US Lat/Long: 48.8122100 / -101.4989100

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface: TVD:

Dates and Depths

MAR 20, 1965 Spud Date Code: Spud:

TD: 4480 on

LTD:

PlugBack Depth:

Completed: JUN 15, 1965

Name: MISSION CANYON /ANHY/ PORO/ Formation @ TD: 352MSNC

Ref. Elevation: 1617 KB KB. Elevation: 1617 1608 GR Ground Elevation:

> HARRELL & HARRELL Contractor:

Rig# Rig Release Date:

DST # 001

Formation: PIPER /LM/ SD/ SH/ Show:

3750 - 3767 BHT Interval: Bottom: Choke: Top:

Rec Method: PIPE Recovery: 1 150 FT M

Pressures and Times:

Init Flow Final Flow Shut-in Open Time Shut-in Time Hydro Final Final Final Init Final Init Final Init Init Init Final lnit 1417 1858 1852 76 102 60 30

DST # 002

Formation: MISSION CANYON /ANHY/ PORO/ Show:

4435 - 4446 BHT Interval:

Bottom: Choke: Top:

PI/Dwights PLUS	Date: 10/9/2 Time: 10:54						
Re Re Re	ecovery: 1 ecovery: 2 ecovery: 3 ecovery: 4	60 F 90 F 165 F 15 F	T SG&OCM T G&OCM	Rec Meth Rec Meth	od: PIPE od: PIPE od: PIPE od: PIPE		
Pressures and Hydro Init Final 2400 2406	Times: Init Flow Init Final	Final Fl Init F 20	ow Sh Final Init 142	ut-in Final 1962	Open Time Init Final 90	Shut-in Time Init Final 90	
DST # 003	Show: S interval: Choke:	Form: 4446 - 4456 Top:	ation: MISSION	N CANYON /. BHT Bottom:	ANHY/ PORO/		
Re	ecovery: 1 ecovery: 2	225 F 855 F			nod: PIPE nod: PIPE		
Pressures and Hydro Init Final 2350 2350	I i imes: Init Flow Init Fina	Final FI Init F 43	low Sh Final Init 518	nut-in Final 1989	Open Time Init Final 90	Shut-in Time Init Final 90	
Casing, Liner, Tubing	Casing Casing	8 5/8 IN @ 4 1/2 IN @	•	250 sx 600 sx			
Drilling Journal Show		Interval 4435 - 444 4435 - 445			Fort 352MSNC - : 352MSNC - :	352MSNC	Sample
Formations and Logs Top Formation			Top Base	Base S	Source Lith- ology	Age code	
GREENHORN DAKOTA		2269 2788 3682	7D Ecpui	140	LOG LOG LOG	603 602 552	
PIPER /LM/ SD/ SH/ SPEARFISH CHARLES /SALT/ MIDALE /ANHY/		3952 4198 4250			LOG LOG LOG	469 353 353	
MISSION CANYON /ANF Dwights Energydata Narrati Accumulated throu	ive	4432			LOG	352	
Accumulated through	Dst: #1 Dst: , o		in, rec 150' mud	l, FP 76-102#,	SIP 1417#, HP		

Dst: 1858-1852#

Dst: #2 4435-4446

Dst: , op 1 1/2 hrs, SI/1 1/2 hrs, rec 60' GCM, 255' O&GCM 15' SW, FP

Dst: 20-142#, SIP 1962#, HP 2400-2406#

Dst: #3 4446-4456

Dst: , op 1 1/2 hrs, SI/1 1/2 hrs, rec 225' O&GCM, 835' SW, FP 43-518#, SIP

Dst: 1989#, HP 2350-2350#

Cores: None

Dwights number: R8068310

Operator Address

Street or PO Box: BOX 1486

113 E 4TH ST

FORM 6

Not Dakota State Industrial Commission Oil and Gas Division

2818

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

North bissets Conlegical Cerest

OPERATOR Amerace Petroleum Corporation FIELD Monell
STREET P. O. Box 1009 POOL Madison
Worth Daketa Hottimaan
CITY WILLIAMS IVAN Gehringer Fract 1 WELL NO. 1 ACRES IN UNIT 160
LEASE NAME - WELL NO. SEC 31 TWP 162N RGE 83W ELEVATION 1606 (CATAL), KB.)
LOCATION SIVE METER SEC. 12 TWP METER RGE METER SEC. 12 107 14 Section
PERMIT NO. 3860 ELECTRIC OR OTHER LOGS RUN? Schlumberger April 9 19 65
NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL 1
DATA ON TEST
DATE TEST COMMENCED April 24 165 HOUR 4 M. DATE TEST COMPLETED April 2765 HOUR 4 M.
LENGTH OF TEST. 24 HOURS MINUTES.
FOR FLOWING WELL: FOR PUMPING WELL:
FLOWING PRESSURE ON CSG. LBS. SQ. IN. LENGTH OF STROKE 54 INCHES
FLOWING PRESSURE ON TEG. LES SQ. IN. NUMBER OF STROKES PER MINUTE 14
SIZE TBGIN . WORKING BARRELS 2" X 12" (SIZE IN.)
SIZE CHOKEIN. TYPE CHOKE(POS.ADJ.)
SHUT IN PRESSURE SIZE TBG 2-3/3" OD EUE IN. NO. FT. RUN 4410
WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR
OTHER ARTIFICIAL DEVICE? Yes
RESULT OF THIS TEST (BBLS. NET OIL PER 24 HRS.) 60
GAS-OIL RATIO OF THIS WELL IS TSEM (CU. FT. OF GAS PER BBL., OF OIL)
PERCENT WATER PRODUCED DURING THIS TEST
GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 25.9
NAME OF PIPE LINE OR OTHER CARRIER U. S. Crude Oil Purchasing Company
IF SHOT: DATENO. QTS. USED
IF PERFORATED: NO. HOLES PER FT. 2 IF ACIDIZED: NO. GALS. USED. 250
GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED FROM 43972 FT. TO 44112 FT.
IF PERFORATED: NO. HOLES PER FT. 2 IF ACIDIZED: NO. GALS. USED. 250. GEOLOGICAL FORMATION SHOT. PERFORATED OR TREATED SHOOTING, PERFORATING OR TREATING COMPANY Lane Wells, Dowell Inc.
GEOLOGICAL FORMATION SHOT. PERFORATED OR TREATED FROM 43972 FT. TO 4412 FT. SHOOTING PERFORATING OR TREATING COMPANY Lane Wells, Dowell Inc. DATE WELL COMPLETED April 11 19 65 HOUR WELL COMPLETED 9:00 PM.
SHOOTING, PERFORATING OR TREATING COMPANY Lane Wells, Dowell Inc. DATE WELL COMPLETED, April 11 19 55 HOUR WELL COMPLETED 9:00 PM.
SHOOTING, PERFORATING OR TREATING COMPANY Lane Wells, Dowell Inc. DATE WELL COMPLETED. April 11 19 65 HOUR WELL COMPLETED. 9:00 P.M.
SHOOTING, PERFORATING OR TREATING COMPANY IANE Wells, Dowell Inc. DATE WELL COMPLETED April 11 19 55 HOUR WELL COMPLETED 9:00 PM. TOP OF PAY 43953 FT.
SHOOTING, PERFORATING OR TREATING COMPANY IABLE Wells, Dowell Inc. DATE WELL COMPLETED APTIL 11 19 55 HOUR WELL COMPLETED 9:00 PM. TOTAL DEPTH OF WELL 4325 FT.
SHOOTING, PERFORATING OR TREATING COMPANY IABLE Wells, Dowell Inc. DATE WELL COMPLETED APTIL 11 19 55 HOUR WELL COMPLETED 9:00 PM. TOTAL DEPTH OF WELL 4325 FT.
SHOOTING, PERFORATING OR TREATING COMPANY IANE Wells, Dowell Inc. DATE WELL COMPLETED April 11 19 55 HOUR WELL COMPLETED 9:00 PM. TOP OF PAY 43953 FT.
SHOOTING, PERFORATING OR TREATING COMPANY IABLE Wells, Dowell Inc. DATE WELL COMPLETED APTIL 11 19 55 HOUR WELL COMPLETED 9:00 PM. TOP OF PAY 43952 FT. TOTAL DEPTH OF WELL 1420 FT. PLUG BACK DEPTH 17.
SHOOTING, PERFORATING OR TREATING COMPANY IABLE Wells, Dowell Inc. DATE WELL COMPLETED APTIL 11 19 55 HOUR WELL COMPLETED 9:00 PM. TOP OF PAY 43952 FT. TOTAL DEPTH OF WELL 4420 FT. PLUG BACK DEPTH FT. WAS THIS WELL CORED? NO WHAT INTERVALS?
SHOOTING, PERFORATING OR TREATING COMPANY IABLE Wells, Dowell Inc. DATE WELL COMPLETED APTIL 11 19 55 HOUR WELL COMPLETED 9:00 PM. TOP OF PAY 43952 FT. TOTAL DEPTH OF WELL 1420 FT. PLUG BACK DEPTH 17.
SHOOTING, PERFORATING OR TREATING COMPANY IABLE Wells, Dowell Inc. DATE WELL COMPLETED APTIL 11 19 55 HOUR WELL COMPLETED 9:00 PM. TOP OF PAY 43952 FT. TOTAL DEPTH OF WELL 4420 FT. PLUG BACK DEPTH FT. WAS THIS WELL CORED? NO WHAT INTERVALS?
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SHOOTING, PERFORATING OR TREATING COMPANY IABLE Wells, Dowell Inc. DATE WELL COMPLETED. April 11 19 55 HOUR WELL COMPLETED. 9:00 PM. TOP OF PAY. 43952 FT. TOTAL DEPTH OF WELL. 44:20 FT. PLUG BACK DEPTH. 44:19 FT. WAS THIS WELL CORED? NO WHAT INTERVALS? GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM.
SHOOTING, PERFORATING OR TREATING COMPANY IABLE Wells, Dowell Inc. DATE WELL COMPLETED APTIL 11 19 55 HOUR WELL COMPLETED 9:00 PM. TOP OF PAY 43952 FT. TOTAL DEPTH OF WELL 1120 FT. PLUG BACK DEPTH FT. WAS THIS WELL CORED? NO WHAT INTERVALS? GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Ft. In. Cement Ft. In. Cement
SHOOTING, PERFORATING OR TREATING COMPANY IABLE Wells, Dowell Inc. DATE WELL COMPLETED. April 11 19 55 HOUR WELL COMPLETED 9:00 PM. TOP OF PAY 43952 FT. TOTAL DEPTH OF WELL 1420 FT. PLUG BACK DEPTH FT. WAS THIS WELL CORED? NO WHAT INTERVALS? GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Ft. In. Cement Ft. In. Cement S-5/8" 670 670 400
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SHOOTING, PERFORATING OR TREATING COMPANY IABS Wells, Dowell Inc. DATE WELL COMPLETED April 11 19 55 HOUR WELL COMPLETED 5:00 PM. TOP OF PAY 43952 FT. TOTAL DEPTH OF WELL 4420 FT. PLUG BACK DEPTH 44:19 FT. WAS THIS WELL CORED? DO WHAT INTERVALS? GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well No. Sacks Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement S-5/8" 670 670 400 4-1/2" 4419 600 EXECUTED THIS 27 DAY OF April 19 65 Aperada Petroleum Corporation
SHOOTING, PERFORATING OR TREATING COMPANY IABLE Wells, Dowell Inc. DATE WELL COMPLETED. April 11 19 55 HOUR WELL COMPLETED 9:00 PM. TOP OF PAY 43952 FT. TOTAL DEPTH OF WELL 44:20 FT. PLUG BACK DEPTH FT. WAS THIS WELL CORED? MO WHAT INTERVALS? GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No. Sacks: Size Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement Ft. In. Cement 3-5/8" 670 670 400 4-1/2" 44:19 44:19 600
SHOOTING, PERFORATING OR TREATING COMPANY IABLE Wells, Dowell Inc. DATE WELL COMPLETED. April 11 19 65 HOUR WELL COMPLETED 9:00 PM. TOP OF PAY 43952 FT. TOTAL DEPTH OF WELL 44:19 FT. PLUG BACK DEPTH 44:19 FT. WAS THIS WELL CORED? NO WHAT INTERVALS? GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement S-5/8" 670 670 400 4-1/2" 44:19 600 EXECUTED THIS 27 DAY OF April 19 65 Aperada Petroleum Corporation (Company or Operator)
SHOOTING, PERFORATING OR TREATING COMPANY Lane Wells, Dowell Inc. DATE WELL COMPLETED ADVIL 11 19 55 HOUR WELL COMPLETED 9:00 PM TOP OF PAY 43952 FT. TOTAL DEPTH OF WELL 14:19 FT. WAS THIS WELL CORED? 10 WHAT INTERVALS? GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement S-5/8" 670 670 400 4-1/2" 44:19 600 EXECUTED THIS 27 DAY OF ADVIL 19 65 Aperade Petroleum Comporation (Company or Operator) STATE OF North Dekote:
SHOOTING, PERFORATING OR TREATING COMPANY Lane Wells, Dowell Inc. DATE WELL COMPLETED ADTIL 11 19 65 HOUR WELL COMPLETED 9200 PM. TOP OF PAY 4395 FT. TOTAL DEPTH OF WELL 4420 FT. PLUG BACK DEPTH 4419 FT. WAS THIS WELL CORED? NO WHAT INTERVALS? GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement 6-5/8" 670 670 400 4-1/2" 4419 600 EXECUTED THIS 27 DAY OF ADTIL 19 65 ADETEC Petroleum Corporation STATE OF North Dekote COUNTY OF Williams STATE OF Worth Dekote COUNTY OF Williams (Signature) (Title)
SHOOTING, PERFORATING OR TREATING COMPANY Lane Wells, Dowell Inc. DATE WELL COMPLETED April 11 19 55 HOUR WELL COMPLETED 9:00 PM TOP OF PAY 43952 FT. TOTAL DEPTH OF WELL 4420 FT. PLUG BACK DEPTH 4419 FT. WAS THIS WELL CORED? NO WHAT INTERVALS? GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Ft. In. Cement Ft. In. Ft. In. Cement 6-5/8" 670 670 400 4-1/2" 4419 600 EXECUTED THIS 27 DAY OF April 19 65 Aperada Petroleum Corporation (Company or Operator) STATE OF North Dekote COUNTY OF Williams Before me the undersigned authority, on this day personally appeared B. G. Filler known to me
SHOOTING, PERFORATING OR TREATING COMPANY Lane Wells, Dowell Inc. DATE WELL COMPLETED ADTIL 11 19 55 HOUR WELL COMPLETED 9:00 PM. TOP OF PAY 43952 FT. TOTAL DEPTH OF WELL 1420 FT. PLUG BACK DEPTH FT. WAS THIS WELL CORED? MO WHAT INTERVALS? GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No. Sacks: Size Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement 6-5/8" 670 670 400 4-1/2" 1419 4419 600 EXECUTED THIS 27 DAY OF ADTIL 19 65 Amerada Petrolaus Corporation (Company or Operator) STATE OF North Dekote COUNTY OF Williams Before me the undersigned authority, on this day personally appeared B. G. Fuller known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on eath states that
SHOOTING, PERFORATING OR TREATING COMPANY Lane Wells, Dowell Inc. DATE WELL COMPLETED APTIL 19 55 HOUR WELL COMPLETED 3:00 PM TOP OF PAY 43954 FT. TOTAL DEPTH OF WELL 4420 FT. PLUG BACK DEPTH FT. WAS THIS WELL CORED? DO WHAT INTERVALS? GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No. Sacks: Size Put in Well Left in Well No. Sacks Ft. in. Ft. in. Cement 6-5/8" 670 670 400 4-1/2" 4419 600 EXECUTED THIS 27 DAY OF APTIL 19 65 Aperade Petroleum Comporation (Company or Operator) STATE OF North Dekote STATE OF Williams Before me the undersigned authority, on this day personally appeared Ex. G. Fuller known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.
SHOOTING, PERFORATING OR TREATING COMPANY Lang Wells, Dowell Inc. DATE WELL COMPLETED ADTIL 19.55 HOUR WELL COMPLETED 9200 PM TOP OF PAY 43952 FT. TOTAL DEPTH OF WELL 1120 FT. PLUG BACK DEPTH FT. WAS THIS WELL CORED? 10 WHAT INTERVALS? GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement September 11 In. Ft. In. Cement September 12 In. Ft. In. Cement September 13 In. Cement September 14 In. Ft. In. Cement September 14 In. Ft. In. Cement September 15 In. Ft. In. Cement September 16 In. Ft. In. Cement September 17 In. Cement September 18 In. Ft. In. Ft. In. Cement September 19 In. Cement Septem
SHOOTING, PERFORATING OR TREATING COMPANY LANG Wells, Dowell Inc. DATE WELL COMPLETED ADTIL 19 55 HOUR WELL COMPLETED 9200 PM TOP OF PAY 43952 FT. TOTAL DEPTH OF WELL 1120 FT. PLUG BACK DEPTH 1129 FT. WAS THIS WELL CORED? DO WHAT INTERVALS? GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. CASING RECORD Size Put in Well Left in Well No. Sacks Size Put in Well Left in Well No. Sacks Ft. In. Ft. In. Cement Ft. In. Ft. In. Cement 6-5/8" 670 670 400 1-1/2" 1129 1129 600 EXECUTED THIS 27 DAY OF ADVIL 19 65 ABETAGE Petroleum Conjocation (Company or Operator) STATE OF North Dekote (Signature) Office of the Superintende (Signature) (Title) Before me the undersigned authority, on this day personally appeared E. G. Puller known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

THE REPORT OF THE PROPERTY OF

Date: 10/9/2001 Time: 11:01 AM

1 GEHRINGER TRACT 1

State:

NORTH DAKOTA

County:

BOTTINEAU

Operator:

AMERADA PETRO CMPNY

API:

33009008760000

IC:

Initial Class: D

Target Objective:

Final Well Class: DO

Status: OIL

Field:

Permit:

3860

MOHALL

on SEP 15, 1972

3848

Abandonment Date:

Projected TD:

4500

Formation: MADISON

Hole Direction:

IP Summary:

Oil 60 BPD Gas

Water

Top Form

MISSION CANYON /ANHY/ PORO/ **75 BBL**

Location

Section, Twp., Range:

31

SW NE

162 N

83 W

Footage NS, EW:

Surface remark:

1980 FNL

1980 FEL

CONGRESS SECTION

Principal Meridian:

5TH PRINCIPAL MRD

48.8158100 / -101.4828500

US

Lat/Long: PBHL:

Spot Code:

PHBL remark:

ABHL:

ABHL remark:

ABHL:

From Surface:

TVD:

Dates and Depths

Spud:

APR 02, 1965 4420 on

Spud Date Code:

TD:

LTD:

PlugBack Depth:

Completed:

APR 11, 1965

Formation @ TD:

Name: MADISON 359MDSN

Ref. Elevation: KB. Elevation: 1606 KB 1606

Ground Elevation:

1597 GR

Contractor:

HARRELL & HARRELL

Rig Release Date:

Rig#

IP# 001

Top Formation:

MISSION CANYON /ANHY/ PORO/ MISSION CANYON /ANHY/ PORO/

Base Formation: Oil:

60 BPD

Condst:

Gas:

Water: 75

4396 - 4412 Interval:

Method: PUMPING Choke:

BBL

Duration of Test:

Hours

Oil:

Gravity:

28.9

GOR:

Prod Method: Perforations: PERF Interval

Cnt

Shots/Ft Туре

Top Formation

4396 -

1

4412

2 FT 352MSNC

MISSION CANYON /ANHY/ POR

Treatments:

Interval:

4396 - 4412

1 of 3

Date: 10/9/2001 Time: 11:01 AM

Fluid:

ACID

Additive:

Prop Agent: Formation Break Down Pressure:

Average Injection Rate:

Stages:

Remarks:

PD # 001

Top Formation:

MISSION CANYON /ANHY/ PORO/

Base Formation:

MISSION CANYON /ANHY/ PORO/

Oil:

60 BPD

Condst:

Gas: Interval:

Water: 75

BBL

Type: A

Duration of Test:

4396 - 4412 24 Hours

Method: PUMPING

Oil:

Gravity:

Choke: GOR:

Prod Method:

PERF

SITP:

Pressures:

FTP: FCP:

SICP:

Perforations:

352MSNC

MISSION CANYON /ANHY/ PORO/

Perf Interval:

4396 - 4412

Shots/Ft: 2

Treatments:

100

4396 - 4412

250 GAL

ACID Type: A

Additive: Prop Agent:

Interval:

Fluid:

Formation Break Down Pressure:

Average Injection Rate: Stages: Remarks:

DST # 001

Show: S Formation: MISSION CANYON /ANHY/ PORO/

Interval:

4378 - 4410

Top:

BHT

Choke:

Bottom:

Recovery: ļ 2

90 FT **HGCM** 270 FT G&OCM

75

Rec Method: PIPE

Recovery: Recovery:

90 FT MCO Rec Method: PIPE Rec Method: PIPE

Recovery:

FT 328 0 Rec Method: PIPE

Mat'ls to Surface: Pressures and Times:

Hydro Final Init

2362

3

4

Final

Init Flow

GAS

Final Flow **Final** Init 36 311

Shut-in **Final** 1824

Open Time Init Final 90 Shut-in Time Init Final 90

Sample

Casing, Liner, Tubing

2387

Casing Casing

Init

8 5/8 IN @ 4 1/2 IN @

670 w/ 4419 w/

Init

400 sx 650 sx

Drilling Journal

Obs. # Interval Type - 4410 Show ì 4378

O&G

Form 352MSNC - 352MSNC

Formations and Logs

Top Formation Measured Top Base Base Source Lith-Age TVD Depth Depth TVD ology code **GREENHORN** 2223 LOG 603 2744 DAKOTA LOG 602

PI/Dwights PLUS on CD	Scout Ticket	Date: Time:	10/9/2001 11:01 AM		
Formations and Logs					
PIPER /LM/ SD/ SH/	3634		LOG	552	
SPEARFISH	3916		LOG	469	
CHARLES /SALT/	4145		LOG	353	
MIDALE /ANHY/	4202		LOG	353	
MISSION CANYON /ANHY/ PO	4382		LOG	352	
Dwights Energydata Narrative					
Accumulated through 1997					
IP:	Madison: P 60 BOPD 28.	9 Grav, 76 BWPD			
Perfs:	4396-4412 (Madison)			
Perfs:	/2; Acidized;	•			
Dst:	#1 4378-4410				
Dst:	, op 1 1/2 hrs, SI/1 1/2 hrs	s. rec 90' GCM, 270'	ОСМ. 90 ¹ МСС	. 328'	
Dst:	oil,FP 36-311#, SIP 1824	•	, ,,	,	
Cores:	None				
Dwights number:	R8068480				
Operator Address					
Street or PO Box:					
City:					
State, Zip:	,				
Country:	,				
Phone:		Fax:			
E-Mail:					
Agent Name:		Agent Code:			
Agent Remark:		•			
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FORM 6

North Dakota State Industrial Commiss Oil and Gas Division

#3849

WELL COMPLETION REPORT

37

OPERA	TOR AUG	urada: P	etroleu	√	oration	TIONS OT	HER SIDE		STOREGE RITUR	esiogicai Sun
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								110 111	WELL.	
5.0m á					DATA	ON TEST				
LENGER	EST CON	AMENCE:	D_ <u>B=28.</u>	19	65HOUR L	M. DATE	TEST COM	PLETEI	D_ 4-29 19 6	Strom I P.
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FOR FL	DWING W	VELL:				EAD DIT				MINUTE
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						H P	RELIDIENA	SY POT	KOTTAL PZONE	
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GAS	-OIL RA	rio of 1	THIS WE	LL IS_	120		(C℧.	FT. OF	GAS PER BBL.	OF OTT)
PER	CENT WA	ATER PR	ODUCED	DURR	SG THIS TR	e⊤ !	<u>-</u>		GRS PER BBL.	Or OIL)
GRA	UITV OF	011 55				o				
	·III OF	OIL PR	ODUCED	DURIN	G THIS TE	ST (CORRI	ECTED TO	60° A.I	P.I.) 23.6	
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AS THIS	WELL C	ORED?_				WHAT INI	ERVALS?			
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ECUTED	TEIS_30	John DAY	Y OF	<u> April</u>		65 <u> </u>	MEPADA P	TROLE	UM CORPORATIO	אַר
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s authori:	1 4	les 42		has kno	apore ingl	i∝urent, Wh Lacts etern	o being by	me dul	y sworn on eath iid report is true :	states that
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					-	<u> </u>	ril /	1 cuar sa	id report is true i	and correct,
					A12	<u> </u>	ril de	Las	id report is true i	and correct,
Oscribed at	nd sworn	to befor			Oth_day o		110	lack	19 65	and correct.

Date: 10/9/2001 Time: 11:01 AM

1 GEHRINGER TRACT 2

State:

NORTH DAKOTA

County:

BOTTINEAU

Operator:

AMERADA PETRO CMPNY

API:

33009008770000

Initial Class: D

Target Objective:

Final Well Class: DO

Status:

Field:

MOHALL Permit:

3861

OIL

on SEP 15, 1972

3849 Projected TD:

4500

Formation: MADISON

Hole Direction:

IP Summary:

Oil

Gas

Water

Top Form

150 BPD

8 BBL

MADISON

IC:

Location

Section, Twp., Range:

Spot Code:

31 162 N SW NW

1976 FNL

606 FWL

83 W

CONGRESS SECTION

Abandonment Date:

Footage NS, EW: Surface remark:

Principal Meridian:

5TH PRINCIPAL MRD

Lat/Long:

48.8158200 / -101.4936600

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface:

TVD:

US

Dates and Depths

Spud:

APR 14, 1965 4421 on

Spud Date Code:

TD:

LTD:

PługBack Depth:

Completed:

APR 26, 1965

Formation @ TD:

359MDSN Name: MADISON

Ref. Elevation: KB. Elevation:

1596 KB

Ground Elevation:

1596 1587 GR

Contractor:

HARRELL & HARRELL

Rig Release Date:

Rig#

IP# 001

Top Formation:

MADISON MADISON

Base Formation:

150 BPD

Condst:

Oil: Gas:

Water: 8

Interval:

4406 - 4418

Method: PUMPING

Duration of Test:

Choke:

Oil:

Hours

Gravity:

GOR:

Prod Method:

PERF

Perforations: 4406 -

Interval Cnt 4418

Top Formation 2 FT 359MDSN

Shots/Ft

MADISON

BBL

Treatments:

1 Interval:

4406 - 4418

Type

PI/Dwights PLUS on C	D Scout Tic	ket	#38	249		Date: 10/9/2001	_
		_ 	77 30	, , ,		Fime: 11:01 AM	
	Fluid: Additive: Prop Agent: Formation Bi Average Injec	reak Down F	ressure:	ACID Typ	e: A		
PD # 001	Stages:	Remarks	š:				
Top Formation:	MADISON						
Base Formation:	MADISON						
Oil: Gas:	88 BBL	ı		Condst:			
Interval:	4406 - 44	110		Water:			
Duration of Test:	17 Hour			Method: FLO	VING		
Oil:	Gravity:	_		Choke: GOR:			
Prod Method:	PERF			GOA.			
Pressures:	FTP; FCP;		ΓP;				
Perforations:	359MDSN		CP: DISON				
Perf Interval:	4406 - 4		Shots/Ft: 2				
Treatments: 100	Interval:	4406 -	4410				
Remarks on PT Test # 001	Fluid: Additive: Prop Agent: Formation Bree Average Injecti Stages: SWBD AND F	250 G ak Down Pro ion Rate: Remarks:	AL	ACID Type:	A		
DST # 001							
Show:	S For	mation: M.	ADISON				
Interval:	4405 - 442			нт			
Choke:	Тор:		Botte				
Recovery: Recovery:		FT MC		ec Method: PIPE			
Recovery:		FT O FT W	Re	ec Method: PIPE			
Mat'ls to Surface: Pressures and Times:	GAS	20	K	ec Method: PIPE			
Hydro Init Flo	w Final	Flow	Shut-in	Onen Time	Ct.	ent.	
Init Final Init Fi 2371 2371	nal Init 43	Final 410	Init Final 1947	x 44847	Shut-u Init	n Time Final 90	
Casing, Liner, Tubing							
Casing	8 5/8 IN	@ 328	w/ 250 s				
Casing	4 1/2 IN (-				
rilling Journal		-					
Obs. #	Interval	Tvn					

Casing, I

PIPER /LM/ SD/ SH/

Drilling J

DST #

Formatious and Logs	Show	Obs. #	In 4405	terval - 4421	Туре О&G		359N	Forn MDSN - 3	n B59MDSN	Sample
Top Formation		М	easured	Тор	Base	Base	Source	Lith-	Age	
GREENHORN			Depth 2247	TVD	Depth	TVD	LOG	ology	code	

3653

LOG

LOG

603

552

PI/Dwights PLUS on Cl	D. Classock PDL 1	··· =			
TDD WIGHTS I LOS ON C	Scout licket	#3849		Date:	10/9/2001
		71,50 • 1		Time:	11:01 AM
Formations and Logs					
SPEARFISH	3926	_			
CHARLES /SALT/	4170	•	OG	469	
MIDALE /ANHY/	4228		OG	353	
MISSION CANYON /ANHY/ PO	4406			353	
Dwights Energydata Narrative	4400	L	0G	352	
Accumulated through 1997					
IP:	Madicon: P 150 DODD	22.66			
Perfs:	4406 4419 (Madian	23.6 Grav, 8 BWPD GOR	120:1		
Perfs:	4406-4418 (Madison /2; A/250 GBDA;)			
Dst:	#1 4405- 4421				
Dst:					
Dst:	, op 1 1/2 ars, 51/1 1/2 i	hrs, GTS 20 min, rec 180' N	ACO, 948' oil, 5'		
Cores:	SW, FP 43-410#, SIP 19	947#, HP 2371-2371#			
Dwights number:	None R8068490				
	K0000490				
Operator Address					
Street or PO Box:					
at.					
City:					
State, Zip:	,				
Country:					
Phone:		Fax:			
E-Mail:					
Agent Name:		Agent Code:			
Agent Remark:					

Dakota State Industrial Commiscon Oil and Gas Division

	U	1 6//4 043 0/4/3/	/	K Zo	3 — — — — — — — — — — — — — — — — — — —
	******	COMPLETION R		# 65°	
F-		STRUCTIONS OTHE		E CEL STEEL	हि: अ:
	rl Schwartz Co.		adison	N. Care Chan	5.
orry Kenmare	s	TATE North Dake	ta co	UNITY SERVICE	
reace value Gehr	inger #3	WELL NO	#3	ACRES IN UNIT	80
LOCATION NE NE	SEC 31	TWP 162	GE 83 1	PLEVATION 1596	:DF, or, KB.1
	7 ELECTRIC OR OT				
NUMBER OF CRUDE	OIL PRODUCING WELLS	OR THIS LEASE.	INCERDING.	IRIS WELL	<u> </u>
		DATA ON TEST			
	CED 7/19 1974 HC				
FOR FLOWING WELL			PING WELL:		
	ON CSJLB			KE 64	2NCHES
	ON TBGLB			KES PER MINUTE_	9
SIZE TEG. 2 3/8		-		.s	
SIZE CHOKEP	TYPE CHOKE(F	POS.ADJ.)			
SHUT IN PRESSURE_		SIZE TEG	2 3/8	IN. NO. FT.	RUN
	OWED FOR THE ENTIRE	DURATION OF T	HIS TEST WI	THOUT THE USE (OF SWAB OR
OTHER ARTIFICIAL	DEVICE:				
-		·	22	· · · · · · · · · · · · · · · · · · ·	
RESULT OF THIS	TEST (BBLS, NET OIL)	PER 24 HRS.)		···	!
GAS-OIL RATIO	OF THIS WELL IS		(CU. FT.	OF GAS PER BBL	OF OIL)
PERCENT WATE	R PRODUCED DURING T	THIS TEST	20%		
CRANITY OF OR	L PRODUCED DURING T	ture wret (coppe	CTED TO SC	. a.p.r.; 28	
GRAVITY OF OR	L PRODUCED DURING I	INIS TEST (CORRE	CIED 10 60	A.F.I.)	
NAME OF PIPE LINE	OR OTHER CARRIER	Portal Pipe	Line		
IF SHOT: DATE	Open dhole	NO. QTS.	USED	· · · · · · · · · · · · · · · · · · ·	
IF PERFORATED: NO.	HOLES PER FT	IF ACID:2	ED: NO. GAI	S. USED 300 gal.	BDA 1,000 gal
GEOLOGICAL FORMA	TION SHOT, PERFORATI	ED OR TREATED_		FROMFT.	ro
SHOOTING, PERFORA	TING OR TREATING COM	TPANY Upen non		<u> </u>	
DATE WELL COMPLE	7/10 4366 to 4379		LL COMPLET	ED	М.
TOP OF PAY		FT.			
_			•		
!	TOTAL DEPTH OF	WELL 4379		_FT.	
	PLUG BACK DEPT	HNone		_FT.	
_		· · · · · · · · · · · · · · · · · · ·			
WAS THIS WELL CO	ann Yes	WHAT IN	TERVALS:	4356 to 4379	
	ST DATA ON REVERSE S				
	-	CASING RECORD			
Size Put in W	ell Left in Weli	No. Sacks Size	Put in We	ll Left in Well	No. Sacks
	In. Ft. In.	Cement		r. Ft. In.	Cement
4 1/2 43581	4358'	275sks.			
					
EXECUTED THIS 19	DAY OF August	-9 74	Ear	l Schwartz Co.	
		13.11	0 1 C	empany or Operator)	
STATE OF North Dal	cota .	CALL	SIANO	Operator	
COUNTY OF Ward	1 1	(S	gnature		itle)
Before me the undersig	ned authority, on this day	personally appeared	Earl :	Schwartz	known to me
to be the person whose	name is subscribed to the	above instrument, t	who being by	me duly sworn on or	th states that
	e this report and has know				
Subscribed and sworn	to before me this the 16	day ofAu	gust		
		Jon	w 7. 0	lan	
		Donna	M. Olson		
My Commission expire	s <u>December 11, 197</u>	5Notacy Pub	He in and for.	Navd County	

#5325

Date: 10/9/2001 Time: 11:01 AM

3 IVAN GEHRINGER

State: NORTH DAKOTA

County: BOTTINEAU

Operator: SCHWARTZ EARL

API: 33009011130000

Initial Class: D

Target Objective:

Final Well Class: DO

Status: OIL

MOHALL Field:

Permit: 5337 on JAN 15, 1975

Abandonment Date:

Projected TD:

4480

Formation: MADISON

Hole Direction:

IP Summary:

Gas

Water 4 BBL

Top Form MISSISSIPPIAN

IC:

Location

Section, Twp., Range:

Spot Code:

162 N

C NE NE

660 FNL

Oil

22 BPD

660 FEL

83 W

CONGRESS SECTION

Footage NS, EW: Surface remark:

Principal Meridian: 5TH PRINCIPAL MRD

Lat/Long:

48.8194300 / -101.4774200

US

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface: TVD:

Dates and Depths

Spud:

JUL 10, 1974

Spud Date Code:

TD: LTD:

4379 on

PlugBack Depth:

Completed:

JUL 20, 1974

Formation @ TD: 359MDSN

Name: MADISON 1596 KB

Ref. Elevation: KB. Elevation:

1596

Ground Elevation:

Contractor: NAKOTA

Rig Release Date:

Rig#

IP# 001

Top Formation:

MISSISSIPPIAN

Base Formation:

MISSISSIPPIAN

Condst:

Oil:

22 BPD

Water: 4

Gas: Interval:

4358 - 4379

Method: PUMPING

Duration of Test:

Hours

Choke:

Oil:

Gravity:

28

GOR:

Prod Method: Perforations: **OPENHOLE**

Interval

Type Shots/Ft Top Formation

4358 -4379

Cnt

359MSSP

MISSISSIPPIAN

BBL

Treatments:

1 Interval: 4358 - 4379

#5325

Date: 10/9/2001 Time: 11:01 AM

Fluid:

1300 GAL

ACID

Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate:

Stages:

Remarks:

Core Id: 001

Formation:

359MSSP

MISSISSIPPIAN

Interval:

4366 - 4379

Rec:

Core Type:

CONV

Show Type:

Description:

DESCRIPTION NOT AVAILABLE

Casing, Liner, Tubing

Casing

8 5/8 IN @

400 w/

SX

Casing

4 1/2 IN @

4358 w/

275 sx

Dwights Energydata Narrative

Accumulated through 1997

IP:

Madison: P 22 BOPD 28.0 Grav, 5 BWPD

Cores:

4366-4379

Dwights number:

R8083250

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

E-Mail:

Agent Name:

Fax:

Agent Remark:

Agent Code:

FORM 6

orth Dakota State Industrial Con. iission Oil and Gas Division

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

OPERATOR Earl Schwarts Co.	FIELD Mohall
STREET	POOL Madison
CITY Kenmare STATE	North Dakota COUNTY Bottineau
LEASE NAME Gehringer	WELL NO ACRES IN UNIT 80
LOCATION ME/NW SEC. 31 T	TWP. 162 RGE 83 ELEVATION 1,600 (DF. or, KB.)
¼ of ¼ Section	
PERMIT NOELECTRIC OR OTHER	LOGS RUN? 19
NUMBER OF CRUDE OIL PRODUCING WELLS ON T	THIS LEASE, INCLUDING THIS WELL
	TA ON TEST
	M. DATE TEST COMPLETED Sec. 16 19 73 HOUR M.
LENGTH OF TEST	HOURSMINUTES.
FOR FLOWING WELL:	FOR PUMPING WELL:
FLOWING PRESSURE ON CSGLBS./SQ.	N. IN. LENGTH OF STROKE 54 INCHES
FLOWING PRESSURE ON TBG. LBS./SQ.	· · · · · · · · · · · · · · · · · · ·
SIZE TBG. 2 3/8 IN.	WORKING BARRELS(SIZE IN.)
SIZE CHOKEIN. TYPE CHOKE(POS.A	ADJ.)
SHUT IN PRESSURE	SIZE TEG 2 3/8 IN. NO. FT. RUN
OTHER ARTIFICIAL DEVICE? Set surface 320	ENTER ELOU
	LIVITED TO THE POST OF
RESULT OF THIS TEST (BBLS. NET OIL PER 3	17
	(CU. FT. OF GAS PER BBL., OF OIL)
PERCENT WATER PRODUCED DURING THIS	TEST
	28
GRAVITY OF OIL PRODUCED DURING THIS	TEST (CORRECTED TO 60' A.P.I.)
Pr	ortal Pine line
NAME OF PIPE LINE OR OTHER CARRIER Open hole	
	200 KQT*DDU 138 8C1
IF PERFORATED: NO. HOLES PER FT.	
GEOLOGICAL FORMATION SHOT, PERFORATED O	OR TREATEDFROMFT. TOFT.
SHOOTING, PERFORATING OR TREATING COMPAN	HOUR WELL COMPLETED
430T - 4404	
TOP OF PAY	FT.
TOTAL DEPTH OF WELL	FT
	1
	Mone
PLUG BACK DEPTH	FT.
	FT.
PLUG BACK DEPTH	WHAT INTERVALS? 4391 - 4404
Yes	WHAT INTERVALS? 4391 - 4404
WAS THIS WELL CORED? Yes GIVE DRILL STEM TEST DATA ON REVERSE SIDE C	WHAT INTERVALS? 4391 - 4404
WAS THIS WELL CORED? GIVE DRILL STEM TEST DATA ON REVERSE SIDE C CASH	WHAT INTERVALS? 4391 - 4404 OF THIS FORM. ING RECORD
WAS THIS WELL CORED? Yes GIVE DRILL STEM TEST DATA ON REVERSE SIDE C	WHAT INTERVALS? 4391 - 4404 OF THIS FORM. ING RECORD acks Size Put in Well Left in Well No Sacks
WAS THIS WELL CORED? GIVE DRILL STEM TEST DATA ON REVERSE SIDE C CASH Size Put in Well Left in Well No. Sa	WHAT INTERVALS? 4391 - 4404 OF PHIS FORM. ING RECORD acks Size Put in Well Left in Well No Sacks ent Ft. In. Cement
WAS THIS WELL CORED? GIVE DRILL STEM TEST DATA ON REVERSE SIDE C CASH Size Put in Well Left in Well No. Sa Ft. In. Ft. In. Ceme	WHAT INTERVALS? 4391 - 4404 OF PHIS FORM. ING RECORD acks Size Put in Well Left in Well No Sacks ent Ft. In. Cement
WAS THIS WELL CORED? GIVE DRILL STEM TEST DATA ON REVERSE SIDE C CASH Size Put in Well Left in Well No. Sa Ft. In. Ft. In. Ceme 4 1/2 4380° 4380° 250 £	WHAT INTERVALS? 4391 - 4404 OF PHIS FORM. ING RECORD acks Size Put in Well Left in Well No Sacks ent Ft. In. Cement
WAS THIS WELL CORED? GIVE DRILL STEM TEST DATA ON REVERSE SIDE C CASH Size Put in Well Left in Well No. Sa Ft. In. Ft. In. Ceme 4 1/2 4380° 4380° 250 a Set surface 320°, 8 5/8 casing	WHAT INTERVALS? WHAT INTERVALS? OF THIS FORM. ING RECORD acks Size Put in Well Left in Well No. Sacks ent Ft. In. Cement Skx.
WAS THIS WELL CORED? GIVE DRILL STEM TEST DATA ON REVERSE SIDE C CASH Size Put in Well Left in Well No. Sa Ft. In. Ft. In. Ceme 4 1/2 4380° 4380° 250 a Set surface 320°, 8 5/8 casing	WHAT INTERVALS? 4391 - 4404 OF THIS FORM. ING RECORD acks Size Put in Well Left in Well No. Sacks ent Ft. In. Ft. In. Cement sks. 74 Earl Schwartz Co.
WAS THIS WELL CORED? GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF CASH Size Put in Well Left in Well No. Sa Ft. In. Ceme 4 1/2 4380° 4380° 250 a Set surface 320°, 8 5/8 casing EXECUTED THIS 6th DAY OF September	WHAT INTERVALS? 4391 - 4404 OF PHIS FORM. ING RECORD acks Size Put in Well Left in Well No. Sacks ent Ft. In. Ft. In. Cement sks. 74 Earl Schwartz Co. (Company or Operator)
WAS THIS WELL CORED? GIVE DRILL STEM TEST DATA ON REVERSE SIDE C CASH Size Put in Well Left in Well No. Sa Ft. In. Ft. In. Ceme 4 1/2 4380° 4380° 250 a Set surface 320°, 8 5/8 casing EXECUTED THIS 6th DAY OF September STATE OF North Dakota	WHAT INTERVALS? 4391 - 4404 OF THIS FORM. ING RECORD acks Size Put in Well Left in Well No. Sacks ent Ft. In. Ft. In. Cement sks., 74 Earl Schwartz Co. 19 (Company or Operator) Apperator
WAS THIS WELL CORED? GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF CASH Size Put in Well Left in Well No. Sa Ft. In. Ft. In. Ceme 4 1/2 4380° 4380° 250 a Set surface 320°, 8 5/8 casing EXECUTED THIS DAY OF September North Dakota	WHAT INTERVALS? 4391 - 4404 OF THIS FORM. ING RECORD acks Size Put in Well Left in Well No. Sacks ent Ft. In. Ft. In. Cement sks. 74 Earl Schwartz Co. (Signature) (Title)
WAS THIS WELL CORED? GIVE DRILL STEM TEST DATA ON REVERSE SIDE C CASH Size Put in Well Left in Well No. Sa Ft. In. Ft. In. Ceme 4 1/2 4380° 4380° 250 g Set surface 320°, 8 5/8 casing EXECUTED THIS DAY OF September STATE OF Ward SS	WHAT INTERVALS? 4391 - 4404 OF PHIS FORM. ING RECORD acks Size Put in Well Left in Well No. Sacks ent Ft. In. Ft. In. Cement skz. 74 Earl Schwartz Co. (Signature) (Title) Earl Schwartz

10/9/2001 Date: 11:01 AM Time:

4 GEHRINGER

NORTH DAKOTA State: BOTTINEAU County:

SCHWARTZ EARL Operator:

IC: 33009011250000 API:

D Initial Class:

Target Objective:

DO Final Well Class: OIL Status:

MOHALL

Field:

on MAR 15, 1974 5390 Permit:

Abandonment Date: # 5378

Formation: MADISON 4480 Projected TD:

Hole Direction:

Top Form Water Gas Oil IP Summary:

MISSION CANYON /ANHY/ PORO/ 30 BPD

Location

162 N 83 W 31 Section, Twp., Range:

W2 NE NW Spot Code:

CONGRESS QTR 820 FEL 660 FNL Footage NS, EW:

Surface remark:

5TH PRINCIPAL MRD Principal Meridian:

> 48.8194300 / -101.4888500 US Lat/Long:

PBHL:

PHBL remark:

ABHL:

ABHL remark:

TVD: From Surface: ABHL:

Remark Type Location Narrative:

REGULATORY SCALED FOOT

> N IRREG_SECT

Dates and Depths

Spud Date Code: NOV 18, 1973 Spud:

TD: 4419 on

LTD:

PlugBack Depth:

Completed: JAN 20, 1974

Name: MISSION CANYON /ANHY/ PORO/ 352MSNC Formation @ TD:

1600 KB Ref. Elevation: 1600 KB. Elevation:

Ground Elevation:

STAR Contractor:

Rig# Rig Release Date:

IP# 001

MISSION CANYON /ANHY/ PORO/ Top Formation: MISSION CANYON /ANHY/ PORO/

Base Formation:

Condst: 30 BPD Oil: Water: Gas:

Method: PUMPING 4380 - 4419 Interval:

Choke: Hours Duration of Test: GOR:

27.5 Oil: Gravity:

OPENHOLE Prod Method:

Shots/Ft Top Formation Type Cnt Interval Perforations:

1 of 3

352MSNC

ACID

Type: A

10/9/2001 Date: Time: 11:01 AM

MISSION CANYON /ANHY/ PORC

4419 4380 -4380 - 4419 1 Interval: Treatments: Fluid: Additive:

> Prop Agent: Formation Break Down Pressure:

Average Injection Rate: Remarks: Stages:

PD # 001

MISSION CANYON /ANHY/ PORO/ Top Formation: MISSION CANYON /ANHY/ PORO/ Base Formation:

Condst: 17 BBL Oil:

Water: Gas:

Method: SWABBING 4380 - 4419 Interval: Choke:

8 Hours Duration of Test: GOR: Gravity: Oil:

OPENHOLE Prod Method:

Interval:

SITP: FTP: Pressures: SICP: FCP:

MISSION CANYON /ANHY/ PORO/ 352MSNC Perforations:

Shots/Ft: 4380 - 4419 Perf Interval:

4380 - 4419 100 Interval: Treatments:

ACID Type: A 300 GAL Fluid:

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate: Remarks: Stages:

PD # 002

MISSION CANYON /ANHY/ PORO/ Top Formation: MISSION CANYON /ANHY/ PORO/ Base Formation:

Condst: 24 BPD Oil:

Water: Gas: Method: PUMPING 4380 - 4419

Choke: Duration of Test: Hours GOR:

Gravity: Oil:

OPENHOLE Prod Method:

MISSION CANYON /ANHY/ PORO/ 352MSNC Perforations:

Shots/Ft: 4380 - 4419 Perf Interval:

001 Core Id:

MISSION CANYON /ANHY/ PORO/ 352MSNC Formation: Rec: 28 FT Interval: 4391 - 4419

Show Type: OIL CONV Core Type:

5 LM, GOOD P&P, OSTN Description:

8 LM, POOR P&P, SLI SHOW OF OIL

15 LM, ANHY

Casing, Liner, Tubing

250 sx 320 w/ 8 5/8 IN @ Casing 4380 w/

5 1/2 IN @ Casing

Drilling Journal Sample Form Obs. # Interval Type 2 of 3

#5378

10/9/2001 Date: 11:01 AM Time:

Drilling Journal

OSTN 352MSNC - 352MSNC 4391 - 4396 1 Show 352MSNC - 352MSNC OIL 4396 - 4404 2 Show **Thickness** Quality Form code Base Type Top ID Porosity Zones POR \mathbf{G} 352MSNC 4396

4391 1 352MSNC P 4404 POR 4396 2

Formations and Logs

Source Lith-Age Base Base Measured Top Top Formation code ology TVD TVD Depth Depth 352 SPL 4391 MISSION CANYON /ANHY/ PO

Dwights Energydata Narrative

Accumulated through 1997

Madison: P 17 BOPD 28.0 Grav, 4 BWPD IP:

4301-4404 (Madison Perfs:

acid w/300 gal BDA 15% Perfs:

4391-4404 Cores:

R8083780 Dwights number:

Operator Address

Street or PO Box:

City: State, Zip:

Country:

Phone:

E-Mail:

Agent Name:

Agent Remark:

Fax:

Agent Code:

North Dakota State Industrial Commission Oil and Gas Division

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

#5186

CPERATOR Chandler & Associates, Inc. FIELD Michael	
1401 Denver Club Blog POOL Madison	
Denver STATE Colo. COUNTY.	Renville
LEASE NAME Erickson State Wall No. 1-36 Acres I	N UNIT 80
LOCATION NE NE SEC. 36 TWP. 162N RGE 84W ELEVATIO	
BERNAM NO. 5198 FIRSTESS OR OTHER LOGS RUNG Gamma Ray	July 11 :9 72
NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WEL	<u>- </u>
DATA ON TEST	
DATE TEST COMMENCED 8-12 19 72HOUR 78 M DATE TEST COMPLETED 8-1	3 72 more 7 au
LENGTH OF TEST COMMENCED G-72 1972FOURTERS BATE HEST COMPLETED G-72 LENGTH OF TEST 24 HOURS 3	M. VITTES
FOR FLOWING WELL: FOR PUMPING WELL:	TN 100 PT PT PT
FLOWING PRESSURE ON CRG LESS SQ IN. LENGTH OF STROKE 44 FLOWING PRESSURE ON TRO. LESS SQ. IN. NUMBER OF STROKES POR	
FIGURES TEST TO THE TEST TO THE TEST TEST TEST TEST TEST TEST TEST	1/4 size in
SIZE CHOKE IN TYPE CHOKE LIPOS ADJ.: WORKING BARRELS. I J	
SHUT IN PRESSURE 20#	NO. FT RUN4399
WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT I	HE USE OF SWAR OR
OTHER ARTIFICIAL DEVICES	
	
RESULT OF THIS TEST (BBLS, NET OIL PER 14 MRS) 33	
GAS-OF RATIO OF THIS WELL IS 156 CT FT OF GAS	PER BBL, OF OIL:
PERCENT WATER PRODUCED DURING THIS TEST	
GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60' A.P.L.)	49.5
SHOOTING FERFORATING OR TREATING COMPANY DATE WELL COMPLETED August 11 1972 HOUR WELL COMPLETED TOP OF PAY 9406: 77	ll ā.m
TOTAL DEPTH OF WELL 4413 FT.	 :
PLUG BACK DEPTH 4413 FT.	
A2751 A3	
WAS THIS WELL CORED Yes	113
GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM CASING RECORD	
Size Put ir Well Left in Well No Sacks Size Eut in Well 1	eft in Well - No Sacks
Fi In Coment Fi In Coment	t. In. Cament
8 5/8" 341' 0 341' 0 370 5½" 4405' 0" 440)5' 0" <u>200</u>
	///////
EXECUTED THIS 14th DAY OF AUGUST 1872 CHARDTER'S ASSOC	ATES. 192.
STATE OF COLORADO	S Petr. Engineer
COUNTY OF DENYER YS Signature Richard Ver)Kite (Ditle)
Before me the undersigned authority to this day personally appeared Richard Ve	
to be the person whose name is subscribed as the acove instrument, who being by me duly the is subscribed to make this report and has knowledge of the facts stated herein and that said.	thitekaswa ta me .
	worn on eath states that
Shashmard and swore to before me tour me 14th day of August	worn on eath states that
Substriced and sword to before me this the 14th day of August	worn on eath states that
Jacobelline Fell	worn on oath states that report is true and correct.
Jacque the Fell Mr. Commission express May 27, 1973 Notice Fublic in and for Coun	worn on eath states that

#5186

10/9/2001 Date: 10:54 AM Time:

1-36 STATE-ERICKSON

State:

NORTH DAKOTA

County:

RENVILLE

Operator:

CHANDLER & ASSOC INC

API:

33075005230000

Initial Class: Đ

Target Objective:

Final Well Class:

DO

Status: OIL

Field:

MOHALL

Permit:

on JUN 15, 1973

Abandonment Date:

Projected TD:

4500

Formation: MADISON

Hole Direction:

IP Summary:

Oil 47 BPD Gas

Water 14 BBL Top Form MOHALL

IC:

Location

Section, Twp., Range:

36

162 N 84 W

C NE NE

660 FNL

660 FEL

CONGRESS SECTION

Footage NS, EW: Surface remark:

Principal Meridian:

5TH PRINCIPAL MRD

Lat/Long:

48.8194400 / -101.4989300

US

PBHL:

Spot Code:

PHBL remark:

ABHL:

ABHL remark:

From Surface: ABHL:

TVD:

Dates and Depths

Spud:

JUL 06, 1972 4413 on

Spud Date Code:

TD: LTD:

4400

PlugBack Depth:

Completed:

SEP 05, 1972

Formation @ TD:

352MHLL

Ref. Elevation:

1601 KB

KB. Elevation:

1601

Ground Elevation: Contractor: 1592 GR

CARDINAL DRILLING

Rig Release Date:

Rig#

Name: MOHALL

IP# 001

Top Formation:

MOHALL

Base Formation:

MOHALL 47 BPD

Condst:

Water: 14

Oil: Gas:

4405 - 4413 Interval:

Method: PUMPING

Duration of Test:

Hours

Choke:

Oil:

Gravity:

4413

GOR:

Prod Method:

OPENHOLE

Shots/Ft Cnt Type

Top Formation

Perforations: 4405 - Interval

352MHLL

MOHALL

BBL

Casing, Liner, Tubing

Casing

10 3/4 IN @

370 sx

1 of 2

352 w/

#5186

Date: 10/9/2001 Time: 10:54 AM

Casing, Liner, Tubing

Casing

5 1/2 IN @

4405 w/

SX

Formations and Logs

Log #	ĺ	GR	@	250 -	4399
		Measu	red	Top	E

Top Formation	Measured	Тор	Base	Base	Source	Lith-	Age
1	Depth	TVD	Depth	TVD	Source	ology	code
SPEARFISH	3936		•		LOG		469
CHARLES /SALT/	4162				LOG		353
MIDALE /ANHY/	4221				LOG		353
STATE A	4298				LOG		352
MOHALL	4406				LOG		352

Dwights Energydata Narrative

Accumulated through 1997

Madison: 33 BOPD grav 29.5, 15 BWPD, GOR 0.150:1

Perfs: 4374-4387 (Madison

Dst: #1 4404-4413

op 10 si 60 op 60 si 60. IF op w/moderate blo; FF op w/strng blo /2 Dst:

minGTS /22 min. Rec 315 ft O, 400 ft highly O & GCM; Smplr: 1780 cc Dst:

Dst: gassy O. HP 2331-2311 FP 46-86 106-304 SIP 1874 BHT 141F

Cores: 4375-4413

Dwights number: R8081860

IP:

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

E-Mail:

Agent Name: Agent Remark: Fax:

Agent Code:

N Dakota State Industrial Commission Oil and Gas Division

WELL COMPLETION REPORT

#5854.

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OPERATOR	Vert	O. Lunc	Confe.	ere: D	Mohall	*	Y /
STREET	P.O.	0. Lubc Box 1773		POOT	Madison		1/
CITY	MINO.	τ	STATE	North	Lakota com	NTY Bottineau	<u> </u>
LEASE NAME.		kade		WELL N	0 30-1	ACRES IN UNIT	60
LOCATION	59 5 <u>F</u>	SE	C 30 TW	F. 162N	RGE 83W EL	EVATION 1611	🐲 ar Ki
PERMIT NO _	5866	ELECTRIC O	R OTHER LO	GS RUN?	noi encie	arch 24.	76
NUMBER OF C	RUDE OIL	PRODUCING W	ELLS ON THE	S LEASE.	INCLUDING TH	OS WELL 1	<u> </u>
				ON TEST			
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SHUT IN PRES	SURE.			/ -517ह उच्च	:	IN. NO. FT	
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RESULT O	F THIS TE	ST (BBIS VET	יי פרס ייי	19	BBL. / day on	5 day ave.	
:			TOTAL	1748. 1 <u>- 19</u>		3 day aver	
GAS-OIL I	RATIO OF	THIS WELL IS.	13111		(CU. FT. 0	F GAS PER BBL	OF OIL)
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_ GARVIII	Or On Pr	RODCCED DURI	NG THIS TES	I (CORRE	CTED TO 65' A	.P.I.) 29 [©]	
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IT STATE DATE	LINE OR	DIRER CARRIE	R				
IF SHOT: DATE							
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Date: 10/9/2001 Time: 11:18 AM

IC:

Abandonment Date:

30-1 WADE

NORTH DAKOTA State: County: BOTTINEAU

Operator: LUND VERN O

API: 33009011930000

Initial Class: D

Target Objective:

Final Well Class: DO

Status: OIL Field: MOHALL

Permit: 5866

on NOV 15, 1976 #15854

Projected TD: 4500 Formation: MADISON

Hole Direction:

IP Summary: Oil Gas Water Top Form 8 BPD **MOHALL**

Location

Section, Twp., Range: 30 162 N 83 W

> Spot Code: SW SW SE

Footage NS, EW: 500 FSL 2140 FEL CONGRESS SECTION

Surface remark:

Principal Meridian: 5TH PRINCIPAL MRD

48.8226100 / -101.4835800 Lat/Long: US

PBHL:

PHBL remark: ABHL:

ABHL remark:

ABHL: From Surface: TVD:

Dates and Depths

MAR 17, 1976 Spud: Spud Date Code:

TD: 4440 on LTD: 4441

PlugBack Depth:

Completed: OCT 01, 1976

Formation @ TD: 352GLBR Name: GLENBURN

Ref. Elevation: 1611 KB KB. Elevation: 1611 Ground Elevation: 1599 GR Contractor: NOT REPORTED

Rig Release Date: Rig#

IP# 001

Top Formation: **MOHALL**

Base Formation: **MOHALL** Oil:

8 BPD Condst: Gas: Water:

Interval: 4361 - 4376 **GROSS** Method: PUMPING Duration of Test:

Hours Choke: Oil: Gravity: 29 GOR:

Prod Method: **PERF**

Perforations: Interval Cnt Type Shots/Ft Top Formation

4361 -4365 2 FT 352MHLL MOHALL 4368 -4371 2 FT 352MHLL **MOHALL** 4374 -4376 2 FT 352MHLL MOHALL

#5854

Date: 10/9/2001 Time: 11:18 AM

Treatments:

l Interval:

4361 - 4376

Fluid:

500 GAL

ACID

Type: A

Additive: Prop Agent:

Formation Break Down Pressure:

1150

Average Injection Rate:

Stages:

Remarks:

DST # 001

Show: S Formation: MOHALL

Interval: 4360 - 4380 BHT 125 Choke: Top: Bottom:

Recovery: 1 20 FT M Rec Method: PIPE Recovery: 2 90 FT SOCM Rec Method: PIPE Recovery: 3 90 FT **OCM** Rec Method: PIPE

Pressures and Times:

Hydro Init Flow Final Flow Shut-in Open Time Shut-in Time Init Final Init Final Init Final Init **Final** Init Final Init Final 2413 2429 105 137 1387 1347 15 90 60 90

Casing, Liner, Tubing

Casing 8 5/8 IN @ 375 w/ 250 sx Casing 5 1/2 IN @ 4440 w/ 300 sx

Formations and Logs

Top Formation	Measured	Тор	Base	Base	Source	Lith-	Age
	Depth	TVD	Depth	TVD		ology	code
DAKOTA	2748				LOG	-	602
TRIASSIC /SYSTEM/	3904				LOG		509
UNCONFORMITY	4143				LOG		000
MIDALE /ANHY/	4146				LOG		353
STATE A	4259				LOG		352
SHERWOOD	4306				LOG		352
MOHALL	4364				LOG		352
GLENBURN	4394				LOG		352

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: P 216 BOPD 29.0 Grav, 9 BWPD

Perfs: 4361-4676 (Madison

Perfs: w/2 SPF - acid w/500 gals MA

Dst: #1 4360-4380

Dst: op 15 si 60 op 90 si 90. Rec 20 ft M 90 ft sli O flecked M 90 ft

Dst: moderately Oc sli GCM; Smplr; 08455 CFG @ 50# 1750 cc O. HP 2413-2429

Dst: FP 81-89 105-137 SIP 1387-1347 BHT 125F

Cores: None

Dwights number: R8088540

Operator Address

Street or PO Box:

City: State, Zip: Country:

5854

Date: 10/9/2001 Time: 11:18 AM

Operator Address

Phone:

Fax:

E-Mail: Agent Name:

Agent Code:

Agent Remark:

KEFER TO PERMIT . 3307

North Dakota State Industrial Commission Oil and Gas Division

Gas Division #3295

who.

PLUGGING RECORD

AL COMMISSION? Yes HOW WAS MUD APPLIED? DURID WERE PLUGS USED? Yes IF SO SHOW ALL SHOULDERS LEFT FOR CASING, SIZES AND LENGTHS OF CASING, SIZE AND KIND OF PLUGS USED AND DEPTHS PLACED ALSO AMOUNT OF CEMENT AND ROCK FLUGED WELL AS FOLLOWS \$536-\$400' Spot 11 sacks cement 262-202' Spot 20 sacks cement \$\$100-3721' 10# Drilling Mud 202- 15' 10# Drilling Mud \$\$3721-3576' Spot 20 sacks cement 15'-Surface - Spot 5 sacks cement. \$\$2779-2709' Spot 20 sacks cement \$\$2779-2709' Spot 20 sacks cement \$\$2779-2709' Spot 20 sacks cement \$\$2709-262' 10# Drilling Mud (Gontinues on Reck) WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS: GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM. EXECUTED THIS 11th DAY OF February 19 63 SKFILY OIL COMPANY (Company or Operator) STATE OF Nebrasks COUNTY OF Ead Willow **SOUTH OF Ead Willow** **SOUTH OF EAD WILLOW OF THE STORM OF THE S	(Within 30 days after the plugging of any well has been accomplished, the owner or operator thereof shall file this form with the State Geologist, setting forth in detail the method used in plugging the well.)
ELEVATION 16C0.91 ELEVATION 16C0.91 ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: SKELLY OIL CONFARY STREET P. G. DISSNEY 61.2 CITY McGook STATE Nebrosks DATE WELL WAS PLUGGED February 6. 19 63 TOTAL DEPTH 1661! PETD 1538! ELECTRIC OR OTHER LOSS RUN: Schludberger Induction-Electrical & Germa Ray Sonic WAS THIS WELL CORED: Ies 15 SO. GIVE INTERVALS 1377-14.05' MINOS-15120' & Mi2O-14175' WAS THE WELL FILLED WITH MUD LADEN PLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRIAL COMMISSION: Yes HOW WAS MUD APPLIED? 1400 WERE PLUGS USED: Ies IF SO SHOW ALL SHOULDERS LEFT FOR CASING, SIZES AND LENGTHS OF CASING, SIZE AND KIND OF PLUGS USED AND DEPTHS PLACED. ALSO AMOUNT OF CEMENT AND ROCK FLUGGED WALL &S FOLLOWS 1500-11721' 104 Drilling Mud 202- 15' 104 Drilling Mud 3721-3576' 3pot 20 sacks cement 15'-Surface - Spot 20 sacks cement 3572-2779' 105 Drilling Mud 202- 15' 104 Drilling Mud 3721-2779' Spot 20 sacks cement 15'-Surface - Spot 50 sacks cement 3572-2779' 105 Drilling Mud Welded plate over top of surface Casing. 2779-2709' Spot 20 sacks cement 262-279: 105 Drilling Mud (Continues on Seck) WAS NOTICE GIVEN BEFORE PLUGGING. TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS: - GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM EXECUTED THIS 11th DAY OF February 19 63 SKFLIY OIL OCKPANY (Company or Operator) STATE OF Nebrasks (Signature) District Superintendent (District of the person whose name is subscribed to the above instrument, who being by me duly swom on eath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and swom to before me his the 11th day of February 16 63 ELECTRIC PROPERTY AND THE STATE OF TH	OPERATOR Skelly Oil Company FIELD Wildcat
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO SKELLY OIL CONFANY STREET P. O. DISSNEY 612 CITY MCGOOK STATE Nebrosks DATE WELL WAS PLUGGED February 6. 19 63 TOTAL DEPTH L661 PETD L538! ELECTRIC OR OTHER LOSS RUN* Schlumberger Induction-Electrical & Genera Ray Sonic WAS THIS WELL CORED? Ies 15 SO. GIVE INTERVALS L377-L405' ML05-L420' & ML20-L475' WAS THE WELL FILLED WITH MUD LADEN FLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRIAL COMMISSION? Yes HOW WAS MUD APPLIED? DUMP WERE PLUGS USED? Ies IF SO SHOW ALL SHOULDERS LEFT FOR CASING, SIZES AND LENGTHS OF CASING, SIZE AND KIND OF PLUGS USED AND DEPTHS PLACED. ALSO AMOUNT OF CEMENT AND ROCK FLUGGED WALL AS FOLLOWS 1536-L400' Spot 11 sacks cement 262-202' Spot 20 sacks cement 151-SUPTAGE Spot 50 Sacks cement 151-SUPTA	LEASE NAME Louis Erickson WELL NO. 1 SEC. 30 TWP. 162N RGE 83W
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: SKELLY OIL COMPANY STREET P. Q. Drewer 61.9 CITY McGook STATE Nebrosks DATE WELL WAS PLUGGED February 6. 19 63 TOTAL DEPTH 1681' PETD 1538' ELECTRIC OR OTHER LOGS RUN? Schlumberger Induction-Electrical & Genter Ray Sonic WAS THIS WELL CORED? Tes IF SO. GIVE INTERVALS 1377-U105' hit05-bit20' & U120-bit75' WAS THE WELL FILLED WITH MUD LADEN FLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRIAL COMMISSION? Yes HOW WAS MUD APPLIED? WERE PLUGS USED? Tes IF SO SHOW ALL SHOULDERS LEFT FOR CASING, SIZES AND LENGTHS OF CASING, SIZE AND KIND OF PLUGS USED AND DEPTHS PLACED. ALSO AMOUNT OF CEMENT AND ROCK FLUIGED WELL 25 FOLLOWS 1526-4100' Shot 11 sacks cement 262-202' Shot 20 sacks cement 1400-3721' 10# Drilling Mud 202-15' 10# Drilling Mud 3721-3576' Shot 20 sacks cement 151-Surface Shot 5 sacks cement 2779-2799' Shot 20 sacks cement (Gentinues on Beck) WAS NOTICE GIVEN BEFORE PLUGGING. TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS: — GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM EXECUTED THIS 11th DAY OF February 19 63 SKFILY OIL COMPANY (Company or Operator) STATE OF Nebraske COUNTY OF Ead Willow 155 Efform me the undersigned authority, on this day personally appeared C. F. Bass known to me to be the person whose name is subscribed to the above instrument, who being by me duly swom on oath states that he is authorized to make this report and has knowledge of the facts stated herei and that said report is true and correct. Subscribed and sworn to before me his the 11th day of Tebruary 16 63	PERMIT NO. 3307 POOL
DATE WELL WAS PLUGGED February 6. DATE WELL WAS PLUGGED February 6. TOTAL DEPTH L681! PETD L518! ELECTRIC OR OTHER LOGS RUN: Schlubberger Induction-Electrical & Germa Ray Sonic WAS THIS WELL CORED: Yes IF SO. GIVE INTERVALS L377-LL05! LLC5-LL20! & LL20-LL75! WAS THE WELL FILLED WITH MUD LADEN FLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRI- AL COMMISSION: Yes How WAS MUD APPLIED? Dund WERE PLUGS USED: Yes IF SO SHOW ALL SHOULDERS LEFT FOR CASING, SIZES AND LENGTHS OF CASING WIZE AND KIND OF PLUGS USED AND DEPTHS PLACED ALSO AMOUNT OF CEMENT AND ROCK FLUGGED WELL AS FOLLOWS L538-L190! Spot 11 sacks cement 262-292! Spot 20 sacks cement L100-3721! 10# Drilling Mud 202-15! 10# Drilling Mud 3721-2757! 10# Drilling Mud Welded Plate over top of surface Casing. 2779-2709! Spot 20 sacks cement 2709-262! 10# Drilling Mud (Continues on Reck) WAS NOTICE GIVEN REFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS? GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM EXECUTED THIS 11th DAY OF February 19 63 SKPLLY OIL COMPANY (Company or Operator) STATE OF Nebraska COUNTY OF Ead Willow See Count on this day personally appeared C. F. Bass known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworm on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and sworn to before me his the 11th day of February 15 63	ELEVATION 1600.91 (SPEC, G.R., ROE) COUNTY Bottineau
TOTAL DEPTH 1681 PETD 1538! ELECTRIC OR OTHER LOSS RUN' Schlumberger Induction-Electrical & Germa Ray Sonic WAS THIS WELL CORED: Jes If SO, GIVE INTERVALS 1377-2405! https://doi.org/10.1001/10.10	ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: SKELLY OIL COMPANY
ELECTRIC OR OTHER LOGS RUN? Schlweberger Induction-Electrical & Genera Ray Sonic WAS THIS WELL CORED: Ies If SO, GIVE INTERVALS 4377-U405! LLOS-10120! & 10120-10175! WAS THE WELL FILLED WITH MUD LADEN FLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRIAL COMMISSION? Ies HOW WAS MUD APPLIED? DUMD WERE PLUGS USED? Ies If SO SHOW ALL SHOULDERS LEFT FOR CASING, SIZES AND LENGTHS OF CASING, SIZE AND KIND OF PLUGS USED AND DEPTHS PLACED ALSO AMOUNT OF CEMENT AND ROCK FLUGED WALL AS FOLLOWS LS38-14:00! Spot 11 sacks cement 262-202! Spot 20 sacks cement 14:00-3721! 10# Drilling Mud 202- 15! 10# Drilling Mud 3721-3576! Spot 20 sacks cement 15:1-Survage - Spot 5 sacks cement 27:09-2709! Spot 20 sacks cement 15:1-Survage - Spot 5 sacks cement. 27:09-262! 10# Drilling Mud Welded plate over top of surface Caning. 27:09-262! 10# Drilling Mud (Continues on Seck) WAS NOTICE GIVEN BEFORE PLUGGING. TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS: GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM. EXECUTED THIS 11th DAY OF February 19 63 SKELLY OIL COMPANY (Company or Operator) STATE OF Nebrasks COUNTY OF Ead Willow) Before me the undersigned suthority, on this day personally appeared C. F. Bass known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on eath states that he is authoritized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and sworn to before me his the 11th day of February 16 63 ALBERTA	STREET P. O. Drewer 649 CITY McGook STATE Nebraska
ELECTRIC OR OTHER LOGS RUN? Schlumberger Induction-Electrical & Germa Ray Sonic WAS THIS WELL CORED? Yes IF SO. GIVE INTERVALS 4377-14.05' MINOS-DIAZO' & MAZO-14.75' WAS THE WELL FILLED WITH MUD LADEN FLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRI- AL COMMISSION? Yes HOW WAS MUD APPLIED? DEBUT WERE PLUGS USED? Yes IF SO SHOW ALL SHOULDERS LEFT FOR CASING, SIZES AND LENGTHS OF CASING, SIZE AND KIND OF PLUGS USED AND DEPTHS PLACED ALSO AMOUNT OF CEMENT AND ROCK FLUGGED WELL AS FOLLOWS 1538-14:00' Spot 11 sacks cement 262-202' Spot 20 sacks cement 14:00-3721' 10# Drilling Mud 202- 15' 10# Drilling Mud 3721-3576' Spot 20 sacks cement 15'-Surface Spot 5 sacks cement. 2779-2709' Spot 20 sacks cement 2709-262' 10# Drilling Mud (Gontinued on Beck) WAS NOTICE GIVEN BEFORE PLUGGING. TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS? GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM. EXECUTED THIS 11th DAY OF February 19 63 SKFILY OIL COMPANY (Company or Operator) STATE OF Nebraske COUNTY OF Ead Willow States that the undersuged authority, on this day personally appeared C. F. Bass known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and sworn to before me his the 11th day of February 16 63 EMBELY 15 AND AND AND AND AND AND AND AND AND AND	DATE WELL WAS PLUGGED February 6. 19 63
WAS THIS WELL CORED? Tes IF SO, GIVE INTERVALS 1377-1405' https://doi.org/10.105/14.105' https://doi.org/10.105/14.105' WAS THE WELL FILLED WITH MUD LADEN FLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRIAL COMMISSION? Yes How WAS MUD APPLIED? The Dear WERE PLUGS USED? Tes IF SO SHOW ALL SHOULDERS LEFT FOR CASING, SIZES AND LENGTHS OF CASING, SIZE AND KIND OF PLUGS USED. AND DEPTHS PLACED. ALSO AMOUNT OF CEMENT AND ROCK FLUGGED WELL AS FOLLOWS 1538-1400' Spot 11 sacks cement 262-202' Spot 20 sacks cement 1400-3721' 10# Drilling Mud 202-15' 10# Drilling Mud 202-15' 10# Drilling Mud 2779-2709' Spot 20 sacks cement 15'-Surface - Spot 5 sacks cement. 3576-2779' 10# Drilling Mud (Gontinued on Rock) WAS NOTICE GIVEN BEFORE PLUGGING. TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS? — GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM EXECUTED THIS 11th DAY OF February 19 63 SKFLLY OTL COMPANY (Company or Operator) STATE OF Nebraska (Signature) District Superintendent COUNTY OF Ead Willow) STATE OF Nebraska (Signature) District Superintendent COUNTY OF Ead Willow (Signature) The Strict Superintendent on the undersuped suthority, on this day personally spoesed C. F. Bass known to me is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and sworn to before me his the 11th day of February 16 63	TOTAL DEPTH 1681 PBFD 15381
was the Well filled with mud laden fluid, according to regulations of the state industrial commission? Yes how was mud applied? Dund were plugs used? Yes if so show all shoulders left for casing, sizes and lengths of casing, size and kind of plugs used. And depths placed also amount of cement and rock flugged wall as folicing 4536-44,00° spot 11 sacks cement 262-202° spot 20 sacks cement 1540-3721° 10# Drilling Mud 202- 15° 10# Drilling Mud 202- 15° 10# Drilling Mud 202- 15° 10# Drilling Mud 202- 15° 10# Drilling Mud 202- 15° 10# Drilling Mud 202- 15° 10# Drilling Mud 202- 15° 10# Drilling Mud 202- 10# Drilling Mud 202- 10# Drilling Mud 202- 10# Drilling Mud (Continues on Reck) Was notice given before plugging, to all available adjoining lease and land owners? — Give drill stem data on reverse side of this form. Executed this 11th day of February 19 63 SEFLIY OIL COMPANY (Company or Operator) State of Nebraska (Signature) District Superintendent to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and sworn to before me his the 11th day of February 15 63	ELECTRIC OR OTHER LOGS RUN? Schlumberger Induction-Electrical & Gamma Ray Sonic
WAS THE WELL FILLED WITH MUD LADEN FLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRIAL COMMISSION? Yes HOW WAS MUD APPLIED? DUMB WERE PLUGS USED? Yes IF SO SHOW ALL SHOULDERS LEFT FOR CASING, SIZES AND LENGTHS OF CASING, SIZE AND KIND OF PLUGS USED. AND DEPTHS PLACED. ALSO AMOUNT OF CEMENT AND ROCK FLUCGED WELL AS FOLLOWS \$4536-4400' Spot 11 sacks cement 262-202' Spot 20 sacks cement 1400-3721' 10# Drilling Mud 202-15' 10# Drilling Mud 202-15' 10# Drilling Mud 202-15' 10# Drilling Mud 202-15' 10# Drilling Mud Welded plate over top of surface Casing. 2779-2709' Spot 20 sacks cement 2779-2709' Spot 20 sacks cement 2709-262' 10# Drilling Mud (Continued on Beck) WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS? GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM EXECUTED THIS 11th DAY OF February 19 63 SKELLY OIL COMPANY (Company or Operator) STATE OF Nebraska COUNTY OF Ead Willow State that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and sworn to before me his the 11th day of February 19 63 EBBUAN (EBBUAN)	
IF SO SHOW ALL SHOULDERS LEFT FOR CASING, SIZES AND LENGTHS OF CASING, SIZE AND KIND OF PLUGS USED. AND DEPTHS PLACED. ALSO AMOUNT OF CEMENT AND ROCK FLUGGED WELL AS FOLLOWS \$4536-\$4500' Spot 21 sacks cement 262-202' Spot 20 sacks cement 1400-3721' 10# Drilling Mud 202-15' 10# Drilling Mud 202-15' 10# Drilling Mud 202-15' 10# Drilling Mud 202-15' Spot 20 sacks cement 15'-Surface - Spot 5 sacks cement. 3576-2779' 10# Drilling Mud Welded plate over top of surface Casing. 2779-2709' Spot 20 sacks cement (Gontinued on Back) WAS NOTICE GIVEN BEFORE PLUGGING. TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS? - GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM. EXECUTED THIS 11th DAY OF February 19 63 SKPLLY OIL COMPANY (Company or Operator) STATE OF Nebraska (Signature) District Superintendent (Title) Before me the undersigned authority, on this day personally appeared C. F. Bass known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and sworn to before me his the 11th day of February 15 63	WAS THE WELL FILLED WITH MUD LADEN FLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRI-
PLUGS USED. AND DEPTHS PLACED. ALSO AMOUNT OF CEMENT AND ROCK FLUGED WELL AS FOLLOWS \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	AL COMMISSION? Yes HOW WAS MUD APPLIED? Dump WERE PLUGS USED? Yes
1538-4400' Spot 11 sacks cement 1540-3721' 10# Drilling Mud 202- 15' 10# Drilling Mud 3721-3576' Spot 20 sacks cement 3576-2779' 10# Drilling Mud 202- 15' 10# Drilling Mud 376-2779' 10# Drilling Mud 202- 15' 10# Drilling Mud 3576-2779' Spot 20 sacks cement 2709- 262' 10# Drilling Mud (Continued on Back) WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS: GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM. EXECUTED THIS 11th DAY OF February 19 63 SKFILY OIL COMPANY (Company or Operator) STATE OF Nebraska COUNTY OF Ead Willow SS (Signature) District Superintendent (Title) Before me the undersigned authority, on this day personally appeared C. F. Bass known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and sworn to before me his the 11th day of February 16 63	IF SO SHOW ALL SHOULDERS LEFT FOR CASING, SIZES AND LENGTHS OF CASING, SIZE AND KIND OF
May 10 10 Drilling Mud 202 15 10 Drilling Mud	PLUGS USED, AND DEPTHS PLACED, ALSO AMOUNT OF CEMENT AND ROCK PLUGGED WELL AS FOLLOWS
3721-3576' Spot 20 sacks cement 3576-2779' 10# Drilling Mud Welded plate over top of surface Casing. 2779-2709' Spot 20 sacks cement 2709- 262' 10# Drilling Mud (Continues on Back) WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS: GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM. EXECUTED THIS 11th DAY OF February 19 63 SKFLLY OIL COMPANY (Company or Operator) STATE OF Nebraske COUNTY OF Ead Willow State of Welded plate over top of surface Casing. (Company on Back) WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS: (Company or Operator) STATE OF Nebraske (Signature) District Superintendent (Title) Before me the undersigned authority, on this day personally appeared C. F. Bass known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and sworn to before me his the 11th day of February 16 63	
3576-2779¹ 10# Drilling Mud Welded plate over top of surface Casing. 2779-2709¹ Spot 20 sacks cement 2709- 262¹ 10# Drilling Mud (Continued on Back) WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS? GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM. EXECUTED THIS 11th DAY OF February 19 63 SKELLY OIL COMPANY (Company or Operator) STATE OF Nebraske (Signature) STATE OF Red Willow Ss (Signature) Before me the undersigned authority, on this day personally appeared C. F. Bass known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and sworn to before me his the 11th day of February 18 63	100-3721 10# Drilling Mud 202- 15 10# Drilling Mud
2779-2709¹ Spot 20 sacks cement 2709- 262¹ 10# Drilling Mud (Continued on Back) WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS? GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM. EXECUTED THIS 11th DAY OF February 19 63 SKFILY OIL COMPANY (Company or Operator) STATE OF Nebraska COUNTY OF Ead Willow ss COUNTY OF Ead Willow ss (Signature) Executed This 11th Day of February 19 63 SKFILY OIL COMPANY (Company or Operator) STATE OF Nebraska COUNTY OF Ead Willow ss (Signature) Executed This 11th Day of February (Title) Executed This 11th Day of February (Signature) Subscribed and sworn to before me his the 11th day of February 15 63	3721-3576' Spot 20 sacks cement 15'-Surface - Spot 5 sacks cement.
WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS? GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM. EXECUTED THIS 11th DAY OF February 19 63 SKELLY OIL COMPANY (Company or Operator) STATE OF Nebraske State of Nebraske (Signature) (Title) Before me the undersigned authority, on this day personally appeared C. F. Bass known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and sworn to before me his the 11th day of February 15 63	
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EXECUTED THIS 11th DAY OF February 19 63 SKFLLY OIL COMPANY (Company or Operator) STATE OF Nebraska COUNTY OF Ead Willow ss Before me the undersigned authority, on this day personally appeared C. F. Bass known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and sworn to before me his the 11th day of February 15 63	2709- 2621 10# Drilling Mud (Continued on Back)
STATE OF Nebraske COUNTY OF Ead Willow State of Nebraske COUNTY OF Ead Willow State of Signature State of Nebraske COUNTY OF Ead Willow State of Signature Signature County of Ead Willow State of Signature County of Ead Willow State of Signature County of Ead Willow State of Signature County of Ead Willow Signature County of Ead Willow Signature County of Ead Willow Signature County of Ead Willow Signature County of Ead Willow Signature County of Ead Willow Signature County of Ead Willow Signature County of Ead Willow Signature County of Ead Willow Signature County of Ead Willow Signature County of Ead Willow Signature Signature Subscribed and sworn to before me his the 11th day of February Subscribed and sworn to before me his the 11th day of February Subscribed and sworn to before me his the 11th day of February Signature County of Ead Willow Signature Signature Signature County of Ead Willow Signature County of Ead Willow Signature County of Ead Willow Signature County of Ead Willow Signature Signature County of Ead Willow Signature County of Ead Willow Signature Signature Signature County of Ead Willow Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Sig	
STATE OF Nebraska COUNTY OF Ead Willow ss Secretary to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and sworn to before me his the 11th day of February 15 63	
COUNTY OF Ead Willow Ss (Signature) (Title) Before me the undersigned authority, on this day personally appeared C. F. Bass known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on eath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and sworn to before me his the 11th day of February 16 63	A
to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and sworn to before me his the 11th day of February 15 63	(Signeture) (Title)
to be the person whose name is subscribed to the above instrument, who being by me duly sworn on eath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct. Subscribed and sworn to before me his the 11th day of February 15 63	Before me the undersigned authority, on this day personally appeared C. F. Bass known to me
- Albain	to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that
	The state of the s
COMMISSION EXPIRES RINE 1, 1968	COMMISSION EXPIRES RINE 1, 1968

Date: 10/9/2001 Time: 11:18 AM

1 LOUIS ERICKSON

State: NORTH DAKOTA County: **BOTTINEAU**

Operator: SKELLY OIL COMPANY APl: 33009007310000

Initial Class: WF

Target Objective:

Final Well Class: WF

> Status: D&A-O Field: WILDCAT

Permit: 3307 on SEP 15, 1972

#3295

Projected TD: 4800

Abandonment Date: Formation: MISSION CANYON /ANHY/ PORO/

Hole Direction:

Location

Section, Twp., Range: 30 162 N 83 W

> Spot Code: SW SW

Footage NS, EW: 660 FSL

565 FWL

CONGRESS SECTION

IC:

Surface remark:

Principal Meridian: 5TH PRINCIPAL MRD

> Lat/Long: 48.8230500 / -101.4938500

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface:

TVD:

US

Dates and Depths

Spud: NOV 28, 1962 Spud Date Code:

TD: On

LTD: 4681

PlugBack Depth:

Completed: FEB 06, 1963

Formation @ TD: 359MDSN Name: MADISON

Ref. Elevation: 1611 KB KB. Elevation: 1611

Ground Elevation: 1601 GR

Contractor: CALVERT DRILLING COMPANY

Rig Release Date: Rig#

PD # 001

Top Formation: STATE A Base Formation: STATE A

Oil: 0 BBL Condst:

Gas: Water:

Interval: 4408 - 4421 Method: SWABBING Duration of Test: 3 Hours Choke:

Oil: Gravity: GOR:

Prod Method: PERF

Pressures: FTP: SITP:

FCP: SICP:

Perforations: 352STTA STATE A Perf Interval: 4408 - 4411 Shots/Ft: 4

Perforations: 352STTA STATE A Perf Interval: 4417 - 4421 Shots/Ft: 4

3295

Date: 10/9/2001 Time: 11:18 AM

Treatments:

100 Interval:

4408 - 4421

Fluid:

500 GAL

ACID Type: A

Condst:

BBL

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate:

Stages:

Remarks: Remarks on PT Test # 001

ACIDIZED W/MUD ACID SWBD 2 1/2 HRS, REC LOAD OIL AND ACID

WTR

PD# 002

Top Formation: STATE A Base Formation: STATE A

> Oil: 32 BBL

Gas:

Water: 74 **BBL** 4408 - 4411 Method: SWABBING

Duration of Test: 6 Hours Choke: Oil: Gravity: GOR:

Prod Method: **PERF**

Interval:

Pressures: FTP: SITP:

FCP: SICP: Perforations: 352STTA

STATE A Perf Interval: 4408 - 4411 Shots/Ft: 4

Remarks on PT Test # 002 SALT WTR

PD#003

Top Formation:

Base Formation:

Oil: Condst: Gas: Water:

Interval: Method: UNDESIGNATED Duration of Test: Hours Choke:

Oil: Gravity: GOR:

Prod Method:

Remarks on PT Test # 003 SALT WTR

PD # 004

Top Formation: STATE A Base Formation: STATE A

> Oil: 4 BPD Condst:

Gas: Water: 297 Interval: 4408 - 4421

Method: PUMPING Duration of Test: 24 Hours Choke: Oil: Gravity: GOR:

Prod Method: **PERF**

> Pressures: FTP: SITP:

FCP: SICP: Perforations: 352STTA

STATE A Perf Interval: 4408 - 4421 Shots/Ft: 4

Remarks on PT Test # 004 SALT WTR

PD # 005

Top Formation: STATE A Base Formation: STATE A

Oil: 5 BPD Condst:

Gas:

Water: 258 BBL. Interval: 4408 - 4421 Method: PUMPING

Duration of Test: 24 Hours Choke:

Date: 10/9/2001 Time: 11:18 AM

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Oil:
                                       Gravity:
                                                                               GOR:
                       Prod Method:
                                       PERF
                          Pressures:
                                      FTP:
                                                           SITP:
                                      FCP:
                                                           SICP:
                       Perforations:
                                      352STTA
                                                          STATE A
                       Perf Interval:
                                          4408 - 4421
                                                             Shots/Ft: 4
      Remarks on PT Test #
                               005
                                      SALT WTR
 PD # 006
                    Top Formation:
                                      STATE A
                    Base Formation:
                                      STATE A
                               Oil:
                                          10 BPD
                                                                            Condst:
                              Gas:
                                                                              Water: 278
                                                                                            BBL
                           Interval:
                                        4408 - 4421
                                                                            Method: PUMPING
                   Duration of Test:
                                          24 Hours
                                                                             Choke:
                              Oil:
                                      Gravity:
                                                                              GOR:
                      Prod Method:
                                      PERF
                         Pressures:
                                      FTP:
                                                          SITP:
                                      FCP:
                                                          SICP:
                      Perforations:
                                      352STTA
                                                         STATE A
                      Perf Interval:
                                         4408 - 4421
                                                             Shots/Ft: 4
     Remarks on PT Test #
                              006
                                      SALT WTR
PD # 007
                    Top Formation:
                                     STATE A
                   Base Formation:
                                     STATE A
                              Oil:
                                          10 BPD
                                                                            Condst:
                             Gas:
                                                                             Water: 278
                                                                                           BBL.
                                       4408 - 4421
                          Interval:
                                                                           Method: PUMPING
                  Duration of Test:
                                         24 Hours
                                                                            Choke:
                              Oil:
                                     Gravity:
                                                                             GOR:
                     Prod Method:
                                     PERF
                        Pressures:
                                     FTP:
                                                          SITP:
                                     FCP:
                                                          SICP:
                      Perforations:
                                     352STTA
                                                        STATE A
                     Perf Interval:
                                        4408 - 4421
                                                            Shots/Ft: 4
     Remarks on PT Test #
                             007
                                     SALT WTR
DST # 001
                           Show:
                                                Formation: STATE A
                                    Overlapping Formation: MISSION CANYON /ANHY/ PORO/
                         Interval:
                                        4380 - 4405
                                                                       BHT 100
                          Choke:
                                        Top:
                                                                    Bottom:
                        Recovery:
                                     ì
                                             150
                                                   FT
                                                         HGCM
                                                                       Rec Method: PIPE
                        Recovery:
                                    2
                                             120
                                                   FT
                                                                      Rec Method: PIPE
                                                         OC&HGCM
                        Recovery:
                                    3
                                             180
                                                   FT
                                                         HGCO
                                                                       Rec Method: PIPE
                        Recovery:
                                    4
                                             120
                                                   FT
                                                         GCO
                                                                       Rec Method: PIPE
                        Recovery:
                                    5
                                              90
                                                   FT
                                                         SGCO
                                                                      Rec Method: PIPE
                        Recovery:
                                    6
                                              86
                                                   FT
                                                         XW
                                                                      Rec Method: PIPE
              Pressures and Times:
              Hydro
                              Init Flow
                                             Final Flow
                                                                Shut-in
                                                                               Open Time
                                                                                              Shut-in Time
           Init
                 Final
                            Init
                                  Final
                                             Init
                                                   Final
                                                              Init
                                                                    Final
                                                                              Init
                                                                                     Final
                                                                                               Init
                                                                                                     Final
          2155
                  2155
                                              62
                                                     264
                                                            1733
                                                                    1604
                                                                                      240
                                                                                                30
                                                                                                        60
                 Dst Test Remark:
                                    OPENED W/STRONG BLOW, REMAINED STEADY
                 Dst Test Remark:
                                    120 OC & HGCM RECOVERY 30 PERCENT OIL
                 Dst Test Remark:
                                    86 SALT WTR /PROBABLY FILTRATE/
```

Core Id: 001

> Formation: 352STTA STATE A

PI/Dwights PLUS on CD Scout Ticket

#3295

Date: 10/9/2001 Time: 11:18 AM

Interval:

4377 - 4405

Rec: 28

FT

FT

FT

Core Type:

CONV

Show Type: BLDO

Description:

7 1/2 ANHY 1/2 LM, DENSE, SH 2 ANHY, LIMEY

2 LM, POOR PORO, SLI ODOR AND STAIN

TRACE VUG PORO

1.9 LM, COARSELY CRYS, SLI SHOW 5.6 LM, SLI VUG, FRAGMENTAL, ALGAL

FAIR PORO, GOOD STAIN & ODOR, BLEEDING OIL

2 1/2 LM, ANHY, SCATTERED PPP, TIGHT

SLI SHOW

1 1/2 LM, SLI VUG, FAIR INTERFRAG PORO, GOOD SHOW, BLEEDING OIL 1 1/2 LM, GOOD-FAIR PP VUG PORO AND

SMALL VUG PORO 3 LM, TIGHT

Core Id: 002

Formation:

352MSNC

MISSION CANYON /ANHY/ PORO/

Interval:

4405 - 4420

Rec: 15

Core Type: Description:

CONV Show Type: OIL 0.2 LM, VUG PORO, GOOD SHOW 0.8 LM, MED CRYS, NO SHOWS

6 LM, VERY ANHY, TIGHT, NO SHOWS

4 LM, SLI ANHY, COARSELY CRYS, NO SHOWS

2 LM, MED CRYS, PP VUG PORO, FETID

ODOR, NO SHOWS

2 LM, MICROCRYS, SLI PORO, TIGHT

Core Id: 003

Formation:

352MSNC

MISSION CANYON /ANHY/ PORO/

Interval:

4420 - 4475

Rec: 49

Core Type: Description: CONV

Show Type: 0.8 LM, MED CRYS, NO SHOWS

7 LM, SUBLITHO, ARG, TIGHT

8 LM, CRYPTOCRYS, TIGHT, SMALL STREAK

VUG PORO UPPER 6 INCHES

10 LM, PISOLITIC, GOOD VUG PORO, NO SHOWS

2 LM, ARG, TIGHT

6 LM, CRYPTOCRYS FRAG, LOCALLY POOR

VUG PORO, NO SHOWS 4 LM, SUBLITHO, TIGHT

3 LM, CRYPTOCRYS FRAG, ALGAL, LOCALLY

POOR-FAIR VUG PORO, NO SHOWS 3 LM, CRYPTO, ALGAL, TIGHT

4 LM, CRYPTO, ALGAL, SOME STREAKS

VUG PORO, NO VISIBLE STAIN

Casing, Liner, Tubing

Casing

8 5/8 IN @ 232 w/ 130 sx 4 1/2 IN @ 4591 w/ 150 sx

Casing Formations and Logs

Top Formation

Measured Depth

Top TVD

Base Depth Base Source

TVD

Lith-Age ology code

4 of 5

PI/Dwights PLUS on C	D Scout Ticket	#3295	•	Date:
Formations and Logs				
SPEARFISH	3927		LOG	460
MIDALE /ANHY/	4218		LOG	469
STATE A	4297	4304	LOG	353 352
MISSION CANYON /ANHY/ PO	4384	.501	SPL	352 352
MISSION CANYON /ANHY/ PO	4396		LOG	352 352
Dwights Energydata Narrative				
Accumulated through 1997				
IP:	Madison: P 9 BO	PD 30.5 Grav, 291 BW	PD	
Perfs:	4408-4411 (Madi			
Perfs:	/4;	,		
Perfs:	4417-4421 (Madi	ison)		
Perfs:	/4; A overall/500	gals; Swbd 62 BLO &	12 BAW/2-1/2 hrs: 5	Swhd 32 RO &
Perfs:	74 BSW/6 hrs;	,		7 DC 02
Dst:	#1 4380- 4405			
Dst:	, SI/30 min, op 4 l	urs, SI/1 hr, strg blo, re	c 150' HGCM. 120'	O&HGCM
Dst;	30% oil, 180' HG0	C foamy oil, 210' GCO,	86' SW. FP 62-264	SIP
Dst:	1733-1604#, HP 2	155-2155#		,, 51
Cores:	#1 4377-4405			
Cores:	rec 28': 7.5' anhy;	0.5' li, dns, shly; 2' anl	av.	
Cores:		or, sliodor & stn, tr vu		1
Cores:	sli sho oil; 6.6' li,	sli vug, frag, fair por, g	d stn & odor, blede	"
Cores:	oil; 2.5 li, anhy, so	trd pinpt por, tite, sli s	ho oil: 1.5' li. sli	
Cores:	vuggy, fair por, gd	show, bledg oil; 1.5' li	. gd-fair pinot vug n	Or.
Cores:	small vug por, fair	show; 2' li, tite;	, o r r s r	,
Cores:	#2 4405-4420			
Cores:	rec 15': 2' li, vug p	or, gd show oil; 10' li,	m-xIn.	
Cores:	NS; 6' li, v-anhy, N	VS; 4' li, sli anhy, crs-x	ln. NS: 2' li. m-xln	
Cores:	pinpt vug por, NS;	2' li, micro-xln, sli por	,, 2 ,, 11 , 111, tite:	
Cores:	#3 4420-4475	, , , , , , , ,	,	
Cores:	rec 49': 2' li, pell, r	poor vug por, NS; 7' li,		
Cores:	sub-litho, tite; 8' li	crypto-xln, tite, strks v	ug por in ton: 10' li	
Cores:	picolythic, gd vug	por, NS; 2' li, tite; 6' li,	Crypto-xin, frac	
Cores:	poor vug por, NS;	4' li, sub-litho, tite; 3' l	. crvoto-xln. frao	
Cores:	poor-fair vug por, l	NS; 3' li, crypto-xln, tit	e: 4'li. crypto-ylp	
Cores:	strks vug por, no v	is stn: (5' lost):	-, · · · · · · · · · · · · · · · · · · ·	
Dwights number:	R8062950	, (,		
Operator Address				
Street or PO Box:				
City:				
State, Zip:				
Country:	,			
Phone:		P.		
E-Mail:		Fax:		
Agent Name:		Anna Cal		
Agent Remark		Agent Code:		

10/9/2001 11:18 AM

5 of 5

Agent Remark:

Norm wakota State Industrial Commission Oil and Gas Division

6		WELL COMPLET			A RECO	
1/	Vern C. Lund	SEE INSTRUCTION			A MOS	Markey Coly
OPERATOR_	vern o. Lund	F	ELD Konaii			3812
STRZZI	P.O. Bex 1773	<u>5</u>	DOT LAGISON	. GOVERN	Sottimeau	
ONTY	<u>Kinot.</u> E Erickson	STATEMORE	ELL NO. 1	LCOUNTE.	S TIVIT 8	<u> </u>
LEASE NAM	RE SH	sec 30 500	160" BOF 83W	- ELEVA	TION 1605	28 or. MB.)
	. o∸ Section					
PERMIT NO	δ363ELECTF	NC OR OTHER LOGS	BCNs Gamma-V	ay Reutro	1 ADF11 25	19./5
Number of	CRUDE OIL PRODUCE	NG WELLS ON THIS	LEASE. INCLUDI	NG THIS	VELL.	
		DATA ON				
চেএমত সভাৰণ	COMMENCED May 2	10 1978 HOUR SAY	DATE TEST COM	PLETED Ma	y 21 1978 HO	UR_8_AM
LENGTH GE	TEST 24 hours	H	OURS			MINUTES.
			OR PUMPING WI			
FOR FLOWI	NG WELL: RESSURE ON CSG				<u> 44</u>	INCHES
TIONING P	RESSURE ON 183	ras sa ry	NUMBER OF S	STROKES P.	ER MINUTE 🔛	<u> </u>
			WORKING BA	RRELS_1	1/2" x 12"	SIZE INC
SIZE CHOKE	r in type ch	OKE(POS.ADJ.)				
SHUT IN PR	ESSURE	S	IZE TBG2"		_IN. NO. FT. R	UN 4360
	WELL FLOWED FOR T		N OF THIS TES	T WITHOU	T THE USE OF	SWAE OR
OTHER AR	DIFICIAT DEVICES,					
			12			
•	T OF THIS TEST (BBLS					
GAS-03	L RATIO OF THIS WE	LL ISTSTM		U. FT. OF G	as per bel Of	(220
: PERCE	NT WATER PRODUCED	DURING THIS IEST	158			
	TY OF OIL PRODUCED					
GRAVI	IA CL OFF BEODECET	Can can. During test	CORRECTED 1		.,	
SHOOTING. DATE WELI	L FORMATION SHOT, PERFORATING OR TRE COMPLETED NAY Y 4373	ATING COMPANY G	o-Internation	<u>al</u>		
					.	
		DEPTH OF WELL				
	PLUG 1	BACK DEPTH	##D6	FI		
	·					
	WELL CORED:	•	THAT INTERVAL	.5:		
GIVE DRILL	. STEM TEST DATA ON			one		
	•	CASING R	ECORD			
Size		in We'll No. Sacks In. Cement	. Size Put Ft.	ın Well İn.	Left in Well Ft. In.	No. Sacks Cement
			·			
	460 400	300 3 400		 -		
5 1/2	4439 4439	400		— —		
					<i>^</i>	
EXECUTED	THIS 23 DAY OF	<u>Say</u> 197	<u> </u>	<u>lern G. Li</u> Compañ	and (Operator)	
	er Pa		Wha	The state of the s	Owner	
STATE OF COUNTY OF		-	Signature		(Tit)	
	he undersigned authority			Vern C.		nown to me
to be the pe he is author.	rson whose name is subsized to make this report :	oribed to the above ins and has knowledge of th	trument, who being a facts stated here	ng by me di in and that i	ily sworn on cath and report is true	s states that and correct
Subscribed a	and sworm to before me	this tre 23 day	of <u>Say</u>	7	<u>78 - 78 - 78 - 78 - 78 - 78 - 78 - 78 -</u>	
	. MADIE &	HUER AND A	Marie		Ciller.	
My Commis	Notacy Public		stary Public in a	nd for		

PI/Dwights PLUS on CD Scout Ticket

Date: 10/9/2001 Time: 10:58 AM

1 ERICKSON

State: NORTH DAKOTA

County: BOTTINEAU
Operator: LUND VERN O

API: 33009012680000

IC:

US

Abandonment Date:

Initial Class: D

Target Objective:

Final Well Class: DO Status: OIL

Field: MOHALL

Permit: 6363 on MAY 15, 1978

:: 6363 on MAY 15, 1976 #6363

Projected TD: 4450 Formation: MADISON

Hole Direction:

IP Summary: Oil Gas Water Top Form
12 BPD MADISON

12 B.

Location

Section, Twp., Range: 30 162 N 83 W

Spot Code: NW NE SW

Footage NS, EW: 2076 FSL 1866 FWL CONGRESS SECTION

Surface remark:

Principal Meridian: 5TH PRINCIPAL MRD

Lat/Long: 48.8269300 / -101.4884500

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface:

L: From Surface: TVD:

Dates and Depths

Spud: JAN 09, 1978 Spud Date Code:

TD: 4450 on

LTD:

PlugBack Depth: 4409 Completed: MAY 21, 1978

Formation @ TD: 359MDSN Name: MADISON

Ref. Elevation: 1606 KB
KB. Elevation: 1606
Ground Elevation: 1595 GR
Contractor: KISSINGER

Rig Release Date: Rig #

IP# 001

Top Formation: MADISON
Base Formation: MADISON

Oil: 12 BPD Condst:
Gas: Water:

Interval: 4373 - 4387 Method: PUMPING

Duration of Test: Hours Choke:
Oil: Gravity: 27 GOR:

Prod Method: PERF

Perforations: Interval Cnt Type Shots/Ft Top Formation

4373 - 4387 3 FT 359MDSN MADISON

Treatments: 1 Interval: 4373 - 4387

PI/Dwights PLUS on CD Scout Ticket

#6363

Date: 10/9/2001 Time: 10:58 AM

Fluid:

700 GAL

ACID

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate: Stages:

Remarks:

Casing, Liner, Tubing

Casing Casing

Tubing

400 w/ 300 sx 8 5/8 IN @

5 1/2 IN @

4439 w/ 400 sx

4360 TUBING

Type: A

Formations and Logs

Log # 1 GR **@**

2 IN

Dwights Energydata Narrative

Accumulated through 1997

Madison: P 12 BOPD 27.0 Grav, 2 BWPD IP:

Perfs: 4373-4387 (Madison

w/3 SPF - acid w/750 gals Perfs:

Cores: None

R8093630 Dwights number:

Operator Address

Street or PO Box:

City:

State, Zip: Country:

Phone:

E-Mail:

Agent Name: Agent Remark: Fax:

Agent Code:

2 of 2

Normalistical State Industrial Commission

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

∩PFB1 *	OB CHAND	LER &	ASSOCIAT		NC.		HOH	ALL S	#K 8	Hirtory
STREET	1401 Den	ver C	lub Bldg.			FIELD_	MAD	ISON	· •	***************************************
CITY	Denver,	Colo.			STATE	Colo.	MAD	COUNTY	RENVILL	E
LEASE I	VAME •	NOUNG				WEIT'	√∧ 13-Z3	40000	* Thi fratter	80
LOCATIO	<u>2</u> ио	W SE	-4:	SEC.	25 TW	P.162N	BOF 84N	EL EU AT	TON 1606	' XXX
Data seri	-						91121112	301	1141616164416	r Contr ₉ 73
NUMBER	OF CRUD	E DIL	PRODUCIN	G WE	US ON THE	GS RUN:	D-22-73	/ A Per	<u>:- veptn</u> /3 1	Lonens /3
				- II <u>- J</u>				THIS W	<u> </u>	-
			7.10	_		ON TEST				
DATE T	EST COMM	ENCED	7-19	19_ <u>7</u>	<u>3</u> HOUR <u>7a .</u> 4	A. DATE	TEST COMPL	ETED 7-2	0197	HOUR 7am.
LENGTH	OF TEST.				4	_HOURS		<u>'</u>	• • • • • • • • • • • • • • • • • • • •	MINUTES.
	WING WE						MPING WELL			
FLOWEN	G PRESSUI	SE ON	CSG	-	LBS./SQ. II	V. LEN	GTH OF STR	OKE	44	INCHES
SIZE TO	G PRESSUI G	RE ON	TBG		LBS./SQ. IN	. NUN	IBER OF STR	OKES PE	R MINUTE.	12 (SIZE IN.)
SIZE CHO	OKE	IN.	и. ТУРЕ СНО	Kт	_(POS.ADJ.	, ,	IKING BARR	ELS		(SIZE IN.)
SHUT IN	PRESSUR	TP 2	O psi, Cl	50	ps1	_SIZE TE	G_2-7/8 E	UE	IN NO E	r. RUN 4405
WAS TH	IS WELL I	LOWE	FOR THE	E ENT	IRE DURAT	ION OF	THIS TEST V	VITHOUT	THE USE	OF SWAB OR
			ICE?			_				
										
1					IL PER 24 F				··	
GAS	OIL RATI	O OF 1	THIS WELL	IS	Est. 160	<u> </u>	(CU. F	T. OF GAS	S PER BBL	. OF OILa
i							62%		•	·
									20 5	
	· · · · · · · · · · · · · · · · · · ·	JIL PR	ODGCED I	CKIN	o This TES	F (CORR	ECTED TO 6	0' A.P.L)_		
NAME OF	PIPE LIN	E OR C	THER CAP	RER	KOCH OIL	COMPAN	Y			
IF SHOT:	DATE			<u> </u>		NO. QTS	. USED	•		
IF PERFO	RATED: N	O. HOL	es per ft			IF ACID	IZED: NO. GA	LS. USEI	250	
GEOLOGI	CAL FORM	LATION	SHOT. PE	RFOR	ATED OR 1	REATED.	acidized	FROM_	4409 FT	TO4412 FT.
SHOOTIN	G. PERFOR	ATING	OR TREAT 7-18	TNG C	OMPANY				4.20	
DALL WE	PAY. 440	.e.e			FT		ELL COMPLE	TED	4:30	
					F 1	•				
						1412			7	
		:			of Well_			FT.	-	
		,	PLUG BAG	CK DE	PTH	4405		FT.	i	
			VPS					4276	; 4400	
							otervals?_		4420	
GIVE DER	LL STEM T	EST DA	ATA ON RE	VERSE	SIDE OF T		M.			
 .					CASING	KECORD -	· <u></u>			
Size	Put in ' Ft.	Well In.	Left in Ft.	w∌ll In.	No. Sacks Cement	, Size	Put in W		Left in Well Ft. In.	No. Sacks Cement
8-5/8"	374'	0	374'	0	215	; 5½"	4409'		409 0	200
								<u> </u>		
<u> </u>		<u> </u>	·							
EXECUTE)	D TEIS	Oth _D	V OF	Jul	y	73 ,CHT	SADLER & AS	SOCIATE	S, IHC.	
								ompany o	r Operator)	
STATE OF	COLOR	OGA			n4	Like		P	etroleum	Engineer
COUNTY O	DENAT	R	.) * \$		ĸ	ichara(§	PROFE ((1	itle)
Before me	the unders	igned a	uthority, on	this c	lay personall	y appeare	dRich	ard Veg	hte	known to me
o be the r	erson whos	e name	is subscribe	ed to t	he above ins	trumeer	who being by	me duly :	eworn on oa	
ie is autho	rized to ma	xe this	report and i	nas kno	owiedge of th	ne facts sta	sted herein and	that said	report is tru	ern states that le and correct,
Subscribed	and sworn	to bet	ore me this	the	20th day	of	July		1973	
						_ilu	may M	2. They	(h)	
fy Commi	ssion expir	es	May 19	, 197	77 ,	U1 anne Jotanu 1944	A. Thayer die in and for	COUNT	Y OF DENV	ER
,					·	.o-ory rut	VELL DIEG TOT.	STATE	OF COLOR	ADO

PI/Dwights PLUS on CD Scout Ticket

Date: 10/9/2001 Time: 10:52 AM

15-25 CROOKS

State: NORTH DAKOTA

County: RENVILLE

Operator: CHANDLER & ASSOC INC

API: 33075005320000 IC:

Initial Class:

Target Objective:

Final Well Class: DO

Status: OIL. Field:

MOHALL

Permit: 5259 on SEP 15, 1973

5247 Abandonment Date:

Projected TD: 4500 Formation: MADISON

Hole Direction:

IP Summary: Oil Gas Water Top Form 65 BBL MOHALL

40 BPD

Location Section, Twp., Range: 162 N 84 W

> Spot Code: **NE SW SE**

Footage NS, EW: 810 FSL 1830 FEL CONGRESS SECTION

Surface remark:

Principal Meridian: 5TH PRINCIPAL MRD

> Lat/Long: 48.8234700 / -101.5037900 US

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface: TVD:

Dates and Depths

Spud: JUN 13, 1973 Spud Date Code:

TD: 4420 on

LTD: 4415

PlugBack Depth:

Completed: JUL 24, 1973

Formation @ TD: 352MHLL Name: MOHALL

Ref. Elevation:

KB. Elevation:

Ground Elevation: 1596 GR

Contractor:

BOMAC DRILLING COMPANY

Rig Release Date: Rig#

IP# 001

Top Formation: MOHALL Base Formation: MOHALL

> Oil: 40 BPD Condst:

Gas: Water: 65

BBL

Interval: 4409 - 4420 Method: PUMPING Duration of Test: Hours

Choke: Oil: Gravity: GOR:

Prod Method: **OPENHOLE**

Water:

Type: WTR Salinity: Temp: Perforations: Interval Shots/Ft Cnt Туре Top Formation

4409 -4420 352MHLL MOHALL

of

PI/Dwights PLUS on CD Scout Ticket

Date: 10/9/2001 Time: 10:52 AM

Treatments:

I Interval:

Fluid:

4409 - 4420

250 GAL

#5247

ACID

FŢ

Туре: А

Additive: Prop Agent:

Formation Break Down Pressure:

Average Injection Rate:

Stages:

Remarks:

Core Id: 001

Formation:

352MHLL MOHALL

Interval:

4376 - 4420

Rec: 44

Core Type:

CONV

Show Type: OSTN

Description: 14 1/2 ANHY

6 1/2 SH, GREY, VERY ANHY, DENSE, MASSIVE

8 ANHY, ARG, SDY, DENSE, NO VISIBLE PORO, DOLO

4 AS ABOVE, SLI MORE SDY

1 DOLO, GREY, DENSE, SDY, NO VISIBLE PORO, NO OSTN 1 1/2 AS ABOVE W/POOR SCATTERED OSTN, NO P&P 2 DOLO, GREY, DENSE, ARG, NO SHOW, NO P&P

6 1/2 LM, STN BRN, FRAG, ISOLETIC, OOLITIC, FAIR TO

GOOD STAIN, GOOD ODOR, FAIR TO GOOD STREAKS, SMALL VUG

PORO

Casing, Liner, Tubing

Casing Casing

8 5/8 IN @ 5 1/2 IN @ 384 w/ 2: 4409 w/ 20

215 sx 200 sx

Drilling Journal

 Obs. #
 Interval
 Type

 Show
 2
 4413 - 4420 GODR

 Show
 1
 4413 - 4420 OSTN

Form
352MHLL - 352MHLL
352MHLL - 352MHLL

Sample

Formations and Logs

or marrons and rods							
Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age code
UNCONFORMITY	4155		•		LOG	01080	000
BERENTSON	4181				LOG		353
MIDALE /ANHY/	4215				LOG		353
STATE A	4296				LOG		352
MOHALL	4385				LOG		352

Dwights Energydata Narrative

Accumulated through 1997

IP: 4

40 BOPD grav 29.5, 62 BWPD, GOR 0.620:1 0.900/64 ck

Perfs:

4409-4412 - acid w/250 gals.

Cores:

4276 #420

COLGS.

4376- 4420

Dwights number:

R8082470

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

Fax:

North Dakota State Industrial Commission Oil and Gas Division

PLUGGING RECORD

		11000		. (• .		
:Within 30 d	ays after the plugging of e State Geologist, setting	fany well has bee forth in detail the	n accomplish method used	ned, the owner d in plugging t	or operator he well.)	thereof shall fi	ie ins
ominte è atro P	Don Bills & Clinto	on St. Clair.	FIELD_	Mohall		- المعادل الم <u>نت</u> بية <u>- المنتبية - المنتبية - المنتبية - المنتبية - المنتبية - المنتبية - المنتبية - المنتبية - ا المنتبية المنتبية المنتبية المنتبية المنتبية - المنتبية المنتبية - المنتبية المنتبية - المنتبية - المنتبية - ا</u>	
COSEV MAM	F Erickson	WELL NO.	1	_SEC. 30	TWP16	2N_ RGE 83W	7
orbant NO	5304		POOL_	<u> Madisor</u>			
en 1741 5 전투(시작)		16062		KK K.B.) CC	UNTYBS	<u>etineau</u>	
	ALL CORRESPONDENC	E CONCERNING	THIS FORM	1 TO: <u>Harr</u>	s. Brown	<u>& Klemer</u>	•
ADDRESS Z	P. O. Box 5	CITY _	Bismarck	- 	STATE, NO	rth Dakota 5	8501
STRUET .	WAS PLUGGED	May 21		<u>19_73</u>			
DATE WELL		· ·					
	TOTAL	44	65*			:	
	!				Poro Holo	 Compansatéd	Camma
ELECTRIC	or other logs run Ray-Sonic log	, Yes Induc	ction-Late	itorog arm	ore noic		
	WELL CORED: No.	IF S	O GIVE IN	TERVALS			·- ·
	WELL CORED: 1240-				·		
PLUGS US	Unconformity	4430* 4180*	25252525	EMENT AND	ROCK 8 5/8	a, SIZE AND K	<u> </u>
	Dakota Base surface	390°	25				
	Top surface		<u> 10</u> 110			<u> </u>	
WAS NOTI	CE GIVEN BEFORE PLI LL STEM DATA ON RE	GGING, TO ALL VERSE SIDE OF	AVAILABLI				= 141 <u>= 141</u>
EXECUTE	THIS 23 DAY OF	ник Маз	719 73_	Don Bills	Company of	n St. Clair r Operator:	
STATE OF	NORTH DAKOTA			(Signature)	ames L. B	Consulting (Tale)	g Geolog
	F BURLEIGH			·			
	the second subbasis	ity, on this day pe	ersonally app		es L. Broy		wn 10 me
	the undersigned author person whose name is su prized to make this repor				by me duly and that said	sworm on caun's report is true an	d correct.
	and sworp to before a			A/N	ay AA	1573.	
	,	e 14 767Ω		Steven	H. Hanis	Burleigh Cou	nty
My Count	ussior expires Augus	F 7 4 7 7 27 9	Notar	y rubiic in an-	3 1994 - L L L.		

PI/Dwights PLUS on CD Scout Ticket

Date: 10/9/2001 Time: 11:18 AM

IC:

Abandonment Date:

US

BHT 130

1 ERICKSON

NORTH DAKOTA State:

BOTTINEAU County:

BILLS DON Operator:

33009011030000 API:

Initial Class: wo

Target Objective:

Final Well Class: WO

Status: D&A-OG **MOHALL** Field:

on SEP 15, 1973 Permit: 5304

#5292

Formation: MADISON Projected TD: 4500

Hole Direction:

Location

83 W Section, Twp., Range: 30 162 N

W2 SW NW Spot Code:

CONGRESS SECTION 602 FWL 1980 FNL Footage NS, EW:

Surface remark:

5TH PRINCIPAL MRD Principal Meridian:

48.8302900 / -101.4937000 Lat/Long: PBHL:

PHBL remark: ABHL:

ABHL remark:

ABHL:

TVD: From Surface:

Dates and Depths

Spud Date Code: MAY 14, 1973 Spud:

4465 on TD: LTD: 4464

PlugBack Depth:

Completed: MAY 21, 1973

Name: GLENBURN 352GLBR Formation @ TD:

1606 KB Ref. Elevation: 1606 KB. Elevation:

Ground Elevation:

CARDINAL DRILLING Contractor:

Rig# Rig Release Date:

DST # 001

Formation: MOHALL Show: S 4394 - 4406 Interval:

> Bottom: Top: Choke: Rec Method: PIPE FT М 15 Recovery: 1 Rec Method: PIPE SOCM 112 FT 2 Recovery: Rec Method: PIPE **HGOCM** Recovery: 3 97 FT Rec Method: PIPE 5 FT O Recovery: 4

Rec Method: PIPE 10 FT M 5 Recovery: Rec Method: SMPL CHAMBER CC 780 O 6 Recovery: Rec Method: SMPL CHAMBER CC 0 Recovery: 7 560 Rec Method: SMPL CHAMBER 8 80 CC W Recovery:

Pressures and Times:

Shut-in Time Shut-in Open Time Final Flow Init Flow Hydro

PI/Dwights PLUS on CD Scout Ticket

#5292

Date: 10/9/2001 Time: 11:18 AM

Init	Final	Init	Final	Init 36	Final 98	Init 1850	Final 1707	Init 10	Final 120	Init 45	Final 90
2410	2410 Pressu	re Rmk:	FLOW		20	to		WEAK-S	TRONG I	BLOW	

Casing, Liner, Tubing

Casing	8 5/8 IN @	368 w/	240 sx
--------	------------	--------	--------

Formations and Logs	
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Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age code
GREENHORN	2250				LOG		603
DAKOTA	2776				LOG		602
PIPER /LM/ SD/ SH/	3630				LOG		552
	3912				LOG		469
SPEARFISH	4140				LOG		000
UNCONFORMITY	· =				LOG		353
MIDALE /ANHY/	4200				LOG		352
STATE A	4278				LOG		352
SHERWOOD	4322				LOG		352
MOHALL	4383						352
GLENBURN	4428				LOG		332

Dwights Energydata Narrative

Accumulated through 1997

Cores: None

Dwights number:

R8082920

Operator Address

Street or PO Box:

City:

State, Zip: Country:

Phone:

E-Mail:

L. Ividis.

Agent Name: Agent Remark: Fax:

Agent Code:

100

S. Caller

4.0

*

North Dakota State Industrial Commission TER TO PERMIT 5830 33-075- • Oil and Gas Division 00644 A COURT OF

TO A COUNTY RECUEN	PLi	JGGING	RECORD
--------------------	-----	--------	--------

form outst in "-	Safter the man -	FLUGGING R	ecord / j		58/8
THE WITH THE S	s after the plugging of an itate Geologist, setting for andler & Associates	ny well has been accommon in detail the most	plished, the owner	31 000	70''
					hall file this
			1 5 6 11		
					84W
ELEVATION	595' Ground		Madison		
ADDRESS ALL	595' Ground CORRESPONDENCE CO	(D.F.	G.R., K.B.) COUN	TYRenville	
STREET 1401	CORRESPONDENCE CO Denver Club Bldg. AS PLUGGED	DACERNING THIS FOI	RM TO: Chandler	& Associates, I	nc.
DATE WELL WA	S PLUGGED	CITYDenver.	sr.	ATE_Colorado.	Attn. Dwad.
					tment
	TOTAL DEP	тн 4450'			
FIRCTRIC On o					
	THER LOGS RUN? Nor	<u>.e</u>		- -	
WAS THIS WELL	CORED? Yes: 4408-4421, Recov	IF SO GIVE U			
27; CO78 +2;	4408-4421, Recov	ered 12½1.	TERVALS Lore	31: 4383-4407'.	Recovered
WAS THE WELL I	FILLED WITH MUD LAD	DEN FLUID, ACCORDE	NG TO REGULATIO	VS OF THE STATE	
		MAD APPLIED: PI	ume arre		
F SO SHOW ALL	SAQUEDERS LEFT FO	OR CASING SITES AN	O LENGTH	THE PLUGS USED?_	<u>Yes</u>
PLUGS USED, AN	D DEFTHS PLACED, AN	Ten Alentin in	LENGTHS OF C	ASING, SIZE AND I	KIND OF
					
at 430' w/30 s	x and at surface w/	/10 sx.	<u>ar 3800, M\30 8</u>	x. at 2850' w/30	5X
					
			<u> </u>		
vas notic <mark>e gi</mark> ve	N BEFORE PLUGGING,	TO ALL AVAILABLE	ADJOINING LEASE	AND LAND OWNERS	Yes.
	DATA ON REVERSE SI		~		
	Ath niv of March	h 1976	CHANDLER	& ASSOCIATES, II	YC
	BEN DAY OF PIGTER	<u> </u>	(1)	Name of the last o	
The second secon	agmodelett		The state of the s		
	Action of Control of C				
A control of the cont	engina dentra de la companya de la c	The state of the s			
The state of the s	Action of Section 11 (11) and the section 12 (11) and				
	The state of the s				
	Application of the control of the co				
	Action of State of St				
	equinal communication of the c				

0.00

TER TO PERMIT 5830 33-075-

North Dakota State Industrial Commission

Oil and Gas Division

PLUGGING RECORD

a. 13	4 5-40-60-60	r Inc	FIRLD	d in plugging	<u> </u>	·	<u> </u>
PERATOR Chandl	<u>er å Associate</u>	3 g 		C5W NE		62N RGE	84W
EASE NAME	Crooks	WELL NO_	/-23	SEC. <u> </u>			· -
ERMIT NO. 583	0 33-075-00644		POOL		<u> </u>	Damid I la	
EVATION_ 1595	' Ground		(D.F., C	3.R., K.B.) (COUNTY	<u>Renville</u>	Two
		CONCERNING	THIS FORM	M TO: Unan	<u>dien a Ha</u>	2200 lares -	1110.
TREET 1401 Der	wer Club Bldg.	CITY	Denver.		_ STATE_	<u>Colorado.</u> tion Depa	<u>Attn: P</u> rodi Artment
ATE WELL WAS	PLUGGED	February	y 15,	19 Z 6	.—.————		
	TOTAL I	ертн <u>4450</u>	1	<u></u>			
	·					,	
LECTRIC OR OT	HER LOGS RUN?_	Mone.					
AS THIS WELL	CORED? Yes 4408-4421, Re	IF Scovered 12%	O, GIVE II	NTERVALS	Core =1:	4383-440	7', Rec ove red
4', Core #2:	ILLED WITH MUD	TARREST ELLER	ACCORDI	NG TO REGI	JLATIONS	OF THE STAT	E INDUSTRI-
AS THE WELL F	ILLED WITH MUD	LADEN FLOID	n Table of the second of the second of the second of the second of the second of the second of the second of the	lume	111621	י אוו ארווזמ	ro∘ Yes
L COMMISSION	YesHow	WAS MUD AP	PLIED?	<u> </u>	W ERL	rpeds ou	
	•						
F SO SHOW ALL	SHOULDERS LEF	T FOR CASING	G, SIZES A	ND LENGTH	is of CAS	SING, SIZE A	ND KIND OF
F SO SHOW ALL	SHOULDERS LEF	T FOR CASING	G, SIZES A BUNT OF C	AND LENGTE EMENT AND	S OF CAS	SING, SIZE A	NO KIND OF
F SO SHOW ALL PLUGS USED. AN	SHOULDERS LEF D DEFTHS PLACE and as follows:	T FOR CASING D. ALSO AMO At 4180' wi	G, SIZES A BUNT OF C	AND LENGTE EMENT AND	S OF CAS	SING, SIZE A	NO KIND OF
F SO SHOW ALL PLUGS USED. AN	SHOULDERS LEF	T FOR CASING D. ALSO AMO At 4180' wi	G, SIZES A BUNT OF C	AND LENGTE EMENT AND	S OF CAS	SING, SIZE A	NO KIND OF
F SO SHOW ALL PLUGS USED. AN	SHOULDERS LEF D DEFTHS PLACE and as follows:	T FOR CASING D. ALSO AMO At 4180' wi	G, SIZES A BUNT OF C	AND LENGTE EMENT AND	S OF CAS	SING, SIZE A	NO KIND OF
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F SO SHOW ALL PLUGS USED. AN Well was plugg at 430' W/30 s	SHOULDERS LEF D DEFTHS PLACE ed as follows: x and at surface	T FOR CASING ED. ALSO AMO At 4180' wi ce w/10 sx.	G, SIZES A BUNT OF C th 30 sx	AND LENGTH EMENT AND at 3950'	rockw/30_sx.	at 2850'	w/30 sx.
F SO SHOW ALL PLUGS USED. AN Well was plugg at 430' w/30's	SHOULDERS LEF D DEFTHS PLACE ed as follows: x and at surface EN BEFORE PLUGG M DATA ON REVE	T FOR CASING At 4180' wi ce w/10 sx. Ging, to ALL RSE SIDE OF '	G, SIZES ADUNT OF C	AND LENGTH EMENT AND at 3950'	rockw/30_sx.	at 2850'	w/30 sx.
F SO SHOW ALL PLUGS USED. AN Well was plugg at 430' w/30's WAS NOTICE GIVE GIVE DRILL STE	SHOULDERS LEF D DEFTHS PLACE ed as follows: x and at surface EN BEFORE PLUGG M DATA ON REVE	T FOR CASING ED. ALSO AMC At 4180' wi Ce w/10 sx. GING, TO ALL RSE SIDE OF 1	G, SIZES ADUNT OF C th 30 sx AVAILABL THIS FORM	EMENT AND at 3950'	ROCK W/30 SX	at 2850'	whers: Yes.
F SO SHOW ALL PLUGS USED. AN Well was plugg at 430' w/30's	SHOULDERS LEF D DEFTHS PLACE ed as follows: x and at surface EN BEFORE PLUGG M DATA ON REVE	T FOR CASING At 4180' wi ce w/10 sx. Ging, to ALL RSE SIDE OF '	G, SIZES ADUNT OF C	EMENT AND at 3950'	ROCK W/30 SX	at 2850'	whers: Yes.
F SO SHOW ALL PLUGS USED. AN Well was plugg at 430' w/30 s WAS NOTICE GIV GIVE DRILL STE	SHOULDERS LEF D DEFTHS PLACE ed as follows: x and at surface x and at surface EN BEFORE PLUG M DATA ON REVE	T FOR CASING ED. ALSO AMC At 4180' wi Ce w/10 sx. GING, TO ALL RSE SIDE OF 1	G, SIZES ADUNT OF C th 30 sx AVAILABL THIS FORM	EMENT AND at 3950'	G LEASE A	at 2850' AND LAND OV 8 ASSOCIATION BY OF OPERATOR GIVEN AND CARRY BY OF OPERATOR GIVEN AND CARRY BY OF OPERATOR GIVEN	w/30 sx. wners: Yes. Es. INC.
F SO SHOW ALL PLUGS USED. AN Mell was plugg at 430' w/30 s WAS NOTICE GIV GIVE DRILL STE EXECUTED THIS.	SHOULDERS LEF D DEFTHS PLACE ed as follows: x and at surface x and at surface EN BEFORE PLUGG M DATA ON REVE 8th DAY OF	T FOR CASING ED. ALSO AMC At 4180' wi Ce w/10 sx. GING, TO ALL RSE SIDE OF 1	AVAILABL THIS FORM	EMENT AND at 3950' E ADJOINING	ROCK W/30 SX	at 2850' AND LAND OV 8 ASSOCIATION BY OF OPERATOR GIVEN AND CARRY BY OF OPERATOR GIVEN AND CARRY BY OF OPERATOR GIVEN	w/30 sx. wners: Yes.
F SO SHOW ALL PLUGS USED. AN Nell was plugg at 430' w/30 s WAS NOTICE GIV GIVE DRILL STE EXECUTED THIS. STATE OF COLO COUNTY OF DEN	SHOULDERS LEF D DEFTHS PLACE ed as follows: x and at surface x and at surface EN BEFORE PLUGG M DATA ON REVE 8th DAY OF RADO. SS	T FOR CASING ED. ALSO AMC At 4180' wi Ce w/10 sx. GING, TO ALL RSE SIDE OF 1	G, SIZES ADUNT OF C th 30 sx AVAILABL THIS FORM	EMENT AND at 3950' E ADJOINING (Signature) James R. V	ROCK W/30 SX. G LEASE A CHANDLER (Company)	at 2850' AND LAND OV 8 ASSOCIATION BY OF OPERATOR GIVEN AND CARRY BY OF OPERATOR GIVEN AND CARRY BY OF OPERATOR GIVEN	w/30 sx. wners: Yes. Es. INC.
F SO SHOW ALL PLUGS USED. AN Mell was plugg at 430' w/30's WAS NOTICE GIV GIVE DRILL STE EXECUTED THIS EXECUTED THIS EXECUTED THIS COUNTY OF DEN Before the un	SHOULDERS LEF D DEFTHS PLACE ed as follows: x and at surface x and at surface EN BEFORE PLUG M DATA ON REVE 8th DAY OF VER - SS dersigned authority.	T FOR CASING At 4180' wi ce w/10 sx. GING, TO ALL RSE SIDE OF TO March on this day pe	AVAILABL THIS FORM	EMENT AND at 3950' E ADJOINING (Signature James R.)	G LEASE A CHANDLER (Companies)	at 2850' at 2850' AND LAND OV AND SASSOCIATION AND SASSOCIATIO	wners: Yes. INC. cologist Title) known to me coath states that
PLUGS USED. AN Well was plugged at 430° w/30 s WAS NOTICE GIVE DRILL STEE EXECUTED THIS. STATE OF COLO COUNTY OF DEN To be the person whe is authorized to	SHOULDERS LEF D DEFTHS PLACE ed as follows: x and at surface x and at surface EN BEFORE PLUG M DATA ON REVE 8th DAY OF RADO SS	T FOR CASING At 4180' will be w/10 sx. GING, TO ALL RSE SIDE OF 1 March on this day peribed to the abind has knowledged.	AVAILABLE THIS FORM 19 76 ersonally approve instrument of the factors of the fa	EMENT AND at 3950' E ADJOINING (Signature James R.) peared tent, who being the stated here	ROCK W/30 SX G LEASE A CHANDLER (Companies of the companies at 2850' at 2850' at 2850' and LAND OV A ASSOCIATION and LAND OV R. Weber uly sworn on said report is:	WNERST Yes. WNERST Yes. ES, INC. Pologist Title) known to me oath states that rue and correct.	
PLUGS USED. AN Well was plugged at 430° w/30 s WAS NOTICE GIVE DRILL STEE EXECUTED THIS. STATE OF COLO COUNTY OF DEN Before the un to be the person whe is suthorized to	SHOULDERS LEF D DEFTHS PLACE ed as follows: x and at surface x and at surface EN BEFORE PLUGG M DATA ON REVE 8th DAY OF RADO SS Cersigned authority, chose name is subsomble this report a	T FOR CASING At 4180' will be w/10 sx. GING, TO ALL RSE SIDE OF 1 March on this day peribed to the abind has knowledged.	AVAILABLE THIS FORM 19 76 ersonally approve instrument of the factors of the fa	EMENT AND at 3950' E ADJOINING (Signature James R.) peared tent, who being the stated here	ROCK W/30 SX G LEASE A CHANDLER (Companies of the companies at 2850' at 2850' at 2850' and LAND OV A ASSOCIATION and LAND OV R. Weber uly sworn on said report is:	w/30 sx. wnerst Yes. Es. INC. cologist Title) known to me oath states that	

PI/Dwights PLUS on CD Scout Ticket

10/9/2001 Date: 10:52 AM Time:

7-25 CROOKS

NORTH DAKOTA State:

RENVILLE County:

CHANDLER & ASSOC INC Operator:

> API: 33075006440000

Initial Class: D

Target Objective:

Final Well Class: D

> D&A-O Status: Field: MOHALL

Permit: 5830

5818

on MAR 15, 1976

Projected TD:

4500

Formation: MADISON

Hole Direction:

84 W 25 162 N

Spot Code: Footage NS, EW:

SW NE

2095 FNL

1980 FEL

CONGRESS SECTION

Abandonment Date:

IC:

Surface remark:

Principal Meridian:

Section, Twp., Range:

5TH PRINCIPAL MRD

Lat/Long:

48.8300000 / -101.5044200

US

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface: TVD:

Dates and Depths

Location

Spud:

FEB 05, 1976

Spud Date Code:

4450 on TD:

LTD:

PlugBack Depth:

Completed:

FEB 15, 1976

Formation @ TD:

352MHLL

Name: MOHALL

Ref. Elevation:

KB. Elevation:

Ground Elevation:

1595 GR

Contractor:

CARDINAL DRILLING

Rig Release Date:

Rig#

001 Core Id:

> Formation: Interval:

MOHALL 352MHLL

4383 - 4408

Rec: 24.5 Show Type: OIL

FT

Core Type: Form ID: CONV

352STTA

Description:

CORED 4383-4407 1/2

8 ANHY

7 DOLO, SDY

7 LM, CHALKY, INTERBOD W/DNS ANHY

2 1/2 LM, BUFF-BRN, LITHOCLASTIC, PP VUGGY PORO, BRN

OIL STN, SOME BLEDG OIL, LITTLE SPARRY ANHY

Casing, Liner, Tubing

Casing

240 sx 8 5/8 IN @ 3382 w/

Fax:

PI/Dwights PLUS on CD Scout Ticket

Date: 10/9/2001 Time: 10:52 AM

Drilling Journal

	Obs.	#	Interv	al a	Тy	pe		Fo)TB	Sample
Show	2		4405 -	4408	BL	DO		352MHLL	- 352MHLL	
Show	1		4405 -	4408	os	TN		352MHLL	- 352MHLL	
Porosity 2	ones	ID	Тор	-	Base	Type	Quality	Form code	Thickness	
•		1	4405	-	4408	PP		352MHLL		
		2	4405	-	4408	VUG		352MHLL		

Formations and Logs

I of Wattoms ware DoPs							
Top Formation	Measured	Тор	Base	Base	Source	Lith-	Age
·	Depth	TVD	Depth	TVD		ology	code
UNCONFORMITY	4126				LOG		000
BERENTSON LOWER	4146				LOG		353
MIDALE /ANHY/	4188				LOG		353
STATE A	4254				LOG		352
MOHALL	4391				LOG		352

Dwights Energydata Narrative

Accumulated through 1997

Dst: None

Cores: #1 4383-4407

Cores: Rec 24 ft

Cores: #2 4408-4421

Cores: Rec 12 1/2 ft

Dwights number: R8088180

Operator Address

Street or PO Box: 475 17TH ST

STE 1000

City: DENVER

State, Zip: CO, 80202

Country: USA

Phone: 3032950400

E-Mail:

Agent Name: Agent Code:

Agent Remark:

DESCRIPTION OF INJECTION PLAN MOHALL MADISOM UNIT AREA INJECTION

Eagle Operating Inc. plans to convert nine (9) producing wells in the proposed Mohall Madison unit into injection wells.

George Witteman #1-A	NENE Section 7-161N-84W
Crooks #15-25	SWSE Section 25-162N-84W
Erickson #30-1	NESW Section 30-162N-83W
Mohall Park #1	NESW Section 31-162N-83W
Ivan Gehringer T-1 #1	SWNE Section 31-162N-83W
Ivan Gehringer #3	NENE Section 31-162N-83W
Gail Hutton #1	NESW Section 6-161N-83W
Carl O. Gilseth et ux #2-R	N2NW Section 5-161N-83W
Carl O. Gilseth et ux #1	SWNW Section 5-161N-83W

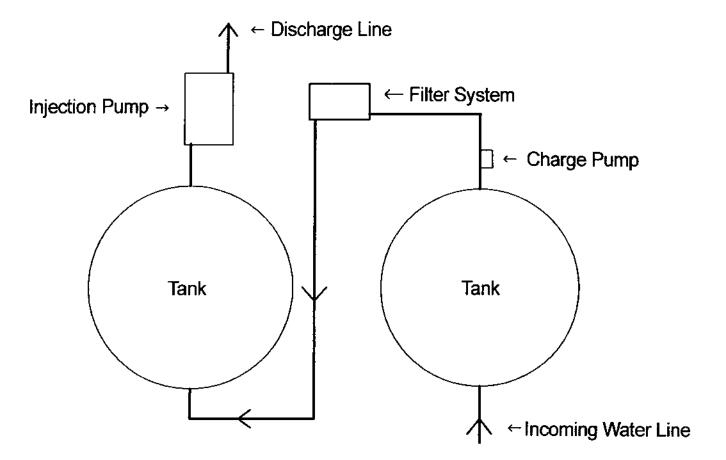
Eagle Operating will inject both produced water from the unit and source water from one Dakota formation source well into these nine injection wells.

All water will be filtered and chemically treated for corrosion prior to injection.

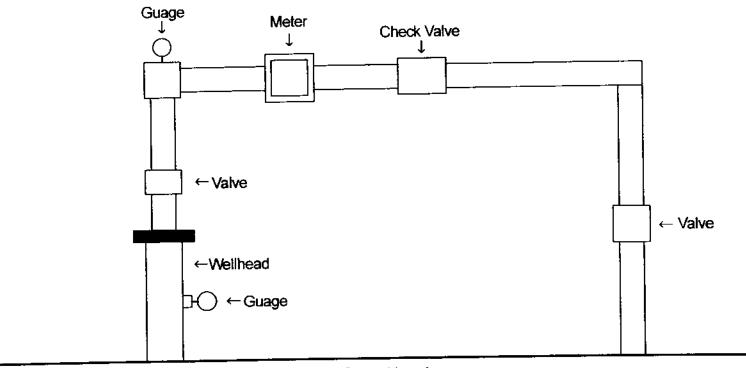
INDUSTRIAL COMMISSION STATE OF NORTH DAKOTA

DATE 1/20/02 CASE NO. 1945
Introduced By Fagle
ortified By Grag Steiner

Injection Pump Station Schematic



Injection Wellhead Schematic



Ground Level

4102 2nd Ave. West

Williston, North Dakota 58802-0972 P.O. Box 972

Phone: (701) 572-7355

WATER ANALYSIS REPORT

W-02-1044 SAMPLE NUMBER

DATE OF ANALYSIS

5-29-02

:OMPANY

Eagle Operating

CITY Kenmare STATE ND

IELL NAME AND/OR NUMBER Harold Ring - House Well

JATE RECEIVED

5-14-02

DST NUMBER

SAMPLE SOURCE

Dugout Well

OCATION

OF SEC. 32

TWN. 162

RANGE 83

Bottineau COUNTY

FORMATION

DEPTH

ISTRIBUTION Greg Steiner - Kenmare, ND

RESISTIVITY @ 77°F = 13.838 Ohm-Meters

= Ha 8.09

SPECIFIC GRAVITY @ 77°F = 1.000

HeS = Negative

OTAL DISSOLVED SOLIDS (CALCULATED) = 531 mg/L (531 ppm)

SODIUM CHLORIDE (CALCULATED) = 18 mg/L (18 ppm)

CATION	MEQ/L	m g / Ĺ	ANION	MEQ/L	mg/L
CALCIUM	3.8	75	CHLORIDE	0.3	11
MAGNESIUM	2.0	22	CARBONATE	0.0	O
SODIUM	0.8	18	BICARBONATE	6.4	391
IRON	0.2	2.8	SULFATE	0.0	0
CHROMIUM	0.0	0.0	NITRATE	0.0	O
BARIUM	0.0	0.0			
POTASSIUM	0.3	11			

		WATER ANALYSIS PATTERN		
la, K	1.0 1		0	1.0 Cl
Ca	1.0 4		&	1.0 HCO ₃
1g	1.0 2		0	0.1 504
Нe	0.1 2		o	0.1 CO ₃

MEQ/L

REMARKS

Date Sampled 5-14-02 Conductivity = 717.9 μmhos/cm

INDUSTRIAL COMMISSION STATE OF NORTH DAKOTA

Introduced By ANALYZĒDIJĀT: C.

4102 2nd Ave. West

Williston, North Dakota 58802-0972 P.O. Box 972

Phone: (701) 572-7355

WATER ANALYSIS REPORT

SAMPLE NUMBER W-02-1043

DATE OF ANALYSIS 5-29-02

<u> 1PANY</u> Eagle Operating

<u>lifY</u> Kenmare

STATE ND

WILL NAME AND/OR NUMBER Dale Randas Well

)<u>JE RECEÏVED</u> 5-14-02

DST NUMBER

MAMPLE SOURCE

Surface Well

_ CATION SW

OF SEC. 30 TWN. 162 RANGE 83 COUNTY Bottineau

FORMATION

DEPTH 12'

BISTIVITY @ 77°F = 3.419 Ohm-Meters

pH = 7.82

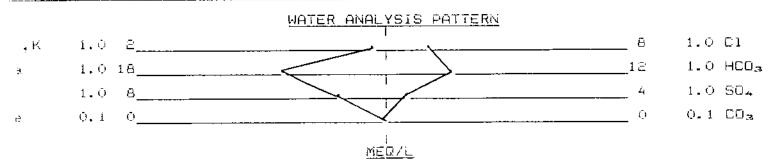
SPECIFIC GRAVITY @ 77°F = 1.000 -

H₌S = Negative

TAL DISSOLVED SOLIDS (CALCULATED) = 2131 mg/L (2131 ppm)

POIUM CHLORIDE (CALCULATED) = 445 mg/L (445 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	տը/և
CALCIUM	18.4	365	CHLORIDE	7.6	270
MAGNESIUM	7.6	84	CARBONATE	0.0	O
SODIUM	2.0	45	BICARBONATE	11.6	708
IRON	0.0	0.0	SULFATE	4.1	197
CHROMIUM	0.0	0.0	NITRATE	7.3	452
BARIUM	0.0	0.0			
POTASSIUM	0.2	9			



-EMARKS Date Sampld 5-14-02

ANALYZED BY: C. Hagen

Conductivity = 2721.3 µmhos/cm

4102 2nd Ave. West

Williston, North Dakota 58802-0972 P.O. Box 972

Phone: (701) 572-7355

WATER ANALYSIS REPORT

AMPLE NUMBER W-02-1046

DATE OF AWALYSIS 5-29-02

iPANY Eagle Operating

<u>líY</u> Kenmare

STATE ND

Æ <u>L NAME AND/OR NUMBER</u> Don Henes Well

G.LE RECEIVED

5-14-02

DST NUMBER

AMPLE SOURCE

Surface Well

SW E :ATION

OF SEC. 36 TWN. 162

RANGE 84 COUNTY

Renville

ORMATION

DEPTH 16'

/ ITRIBUTION Greg Steiner - Kenmare, ND

: GISTIVITY @ 77°F = 4.233 Ohm-Meters

pH = 9.03

pacific GRAVITY @ 77°F = 1.000 -

H_€S = Negative

: "AL DISSOLVED SOLIDS (CALCULATED) = 1631 mg/L (1631 ppm)

191UM CHLORIDE (CALCULATED) = 297 mg/L (297 ppm)

CATION	MEQ/L	ளg∕L	ANION	MEQ/L	mg/L
 CALCIUM	5.6	111	CHLORIDE	5. i	180
MAGNESIUM	10.2	113	CARBONATE	0.3	Э
SODIUM	8.2	188	BICARBONATE	10.0	610
I RON	0.0	0.0	SULFATE	8.2	392
CHROMIUM	0.0	0.0	NITRATE	0.3	i &
BARIUM	0.0	0.0			
POTASSIUM	0.3	10			

WATER ANALYSIS PATTERN : , К 1.0 01 1.0 8 5 1.0 &_____ 10 1.0 HCO₃ 1.0 504 0.1 0 3 0.1 002

MEQZI

EMARKS.

Date Sampled 5-14-02 Conductivity = 2258.1 µmhos/cm

<u>ANALYZED BY: C. Hagen</u>

4102 2nd Ave. West

Williston, North Dakota 58802-0972 P.O. Box 972

Phone: (701) 572-7355

WATER ANALYSIS REPORT

SAMPLE NUMBER W-02-1045

DATE OF ANALYSIS 5-29-02

<u>MPANY</u> Eagle Operating

CITY Kenmane

STATE ND

JT_L NAME <u>AND/OR NUMBER</u> Mohall Park #1

5-14-02

DATE RECEIVED

DST NUMBER

%4MPLE SOURCE Treater

_ CATION NE SW

<u>DF SEC.</u> 31 <u>TWN.</u> 162

RANGE 83

<u>COUNTY</u> Bottineau

FORMATION

DEPTH

<u>STRIBUTION</u> Greg Steiner - Kenmare, ND

: SISTIVITY @ 77°F = 0.036 Ohm-Meters

pH = 7.14

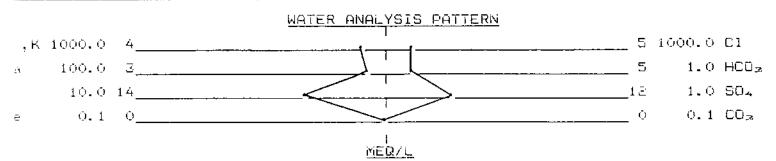
JPECIFIC GRAVITY @ 77°F = 1.175

H₂S = Positive

TAL DISSOLVED SOLIDS (CALCULATED) = 293436 mg/L (249733 ppm)

PDIUM CHLORIDE (CALCULATED) = 296749 mg/L (252553 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	320.0	6349	CHLORIDE	5076.0	179959
MAGNESIUM	140.0	1555	CARBONATE	0.0	Ō
SODIUM	4354.1	100100	BICARBONATE	5.2	317
1 RON	0.0	0.8	SULFATE	12.0	575
CHROMIUM	0.1	0.8	NITRATE	0.0	Q
BARIUM	0.3	18.0			
POTASSIUM	116.6	4560			



EMARKS Date Sampled 5-14-02

ANALYZED BY: C. Hagen

APPLICATION FOR FLUID INJECTION MOHALL MADISON UNIT AREA INJECTION

Sources of Injected Fluid:

Anna V. Rouse et al #1	SW SE 31-162N-83W
Carl Gilseth #1	SW SW 5-161N-83W
Carl O. Gilseth et ux #1	SW NW 5-161N-83W
Carl O. Gilseth et ux #2-R	N2 Nw 5-161N-83W
E.M. Davis #1	NE SE 31-162N-83W
Gail Hutton #1	NE SW 6-161N-83W
Gail Hutton #2	SW NW 6-161N-83W
George Shurson et al #1	SW SE 6-161N-83W
George Witteman #1-A	NE NE 7-161N-83W
Ivan Gehringer #3	NE NE 31-162N-83W
Ivan Gehringer #4	NE NW 31-162N-83W
Ivan Gehringer T-1 #1	SW NE 31-162N-83W
Ivan Gehringer T-2 #1	SW NW 31-162N-83W
Mohall Park #1	NE SW 31-162N-83W
Rhoda Racke #1	SW NE 6-161N-83W
Ring #1	SW SW 32-162N-83W
Ring #2	NE SW 32-162N-83W
Sam Simpson et al #1	NE SE 6-161N-83W
Sam Simpson et al #2	NE NE 6-161N-83W
Skelly Hutton #1	NE NW 6-161N-83W
Erickson #30-1	NE SW 30-162N-83W
Wade #1	SW SW 32-162N-83W
Wade #30-1	SW SE 30-162N-83W
Erickson-State #1-36	NE NE 36-162N-84W
Crooks # 15-25	SW SE 25-162N-84W
George Witteman #1 WSW	NE NE 7-161N-83W

INDUSTRIAL COMMISSION
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MOHALL MADISON UNIT SURFACE OWNERSHIP PLAT Renville Co. Bottineau Co. Joseph Dorothy Philip Gehringer Donna Cook Steve Witternan Bohm Kelly Trust Lorance Schoenberg J Philip et al Colleen Kinzley & Jani Farrell & Salty Witternan Kelly et al Stacy Crooks | Estate O Mohalf Unit Outline Colleen Richard Lorance Kinzley Ivan Gehringer Scott Reishus & Coleen Schoenberg Kinzley et al et al Donald & Mabel C. Viola .lames John ! Mohall City Deborah Gilseth Halvorsen Harold & Murial Ring Southam Cook Park District Myaer Beckedahl Life Estate CBA Κ John Cook L SA Farrelt Edna Carl Gaenslen Mabel Beckedahi & Sally Gail Gilseth Donald Witternan Clifford Myaer Hutton et al Robert Robert Lillian & Kathy & Кепту 田川p & Renee Steinberger Larson Mau Bahl Ρ Everett John George .iudith Eleanor & Teri Heller Cook Duerre Delap Nelson Sherry! & David Brian & Bonnie Marlo & Carolyn Pat Connole Gregory Aho et al Brackelsberg Lunde Witteman David Witteman М Fred F. & Mary Gehringer Dave & Ariena Herigitad Raymond Gehringer Witteman Duane Debra Maynard Martin Zimmerman Family Cameron & Arlene et al Nordmark et al Partnership Herigstad David & Marlo & Carolyn Beverty Brackelsberg Witteman Marlo & C. Brackelsberg Trust 14 18 Famell & Sally Witteman IAL COMMISSION R 84 W SMALL TRACT OWNERS | William & Nellie Wittern | J. Hoffman Township | | Sam & Audrey Scott B Donald R. Henes

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- C Barry & Mariane Myaer
- D Gordon Martin E Loren Sundahl
- David & Cryslynn Walker
- G Robert Walker
- H Larry & Donna Cook
- K Earl Schwartz Co
- L Janice M Khatsom duced By M Cutbank Township
- N Cutbank Township

 O Barrie & Many Kelly P City of Mohall,

ORIGINAL

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TO: ALL SURFACE OWNERS

FR: EAGLE OPERATING, INC.

RE: APPLICATION FOR FLUID INJECTION

DT: OCTOBER 22, 2002

PLEASE TAKE NOTICE that Eagle Operating, Inc. ("Eagle") has made application to the North Dakota Industrial Commission ("Commission") for an area permit authorizing the underground injection of fluids into the unitized formation of the Mohall-Madison Unit, Renville and Bottineau Counties, North Dakota.

If you have any comments or objections to Eagle's application, please direct them to the Commission at the following address within 30 days of the date of this letter:

Mr. Dave McCusker North Dakota Industrial Commission Oil and Gas Division 600 East Boulevard Bismarck, ND 58505

If you should have any questions regarding Eagle's application for an area permit, please address the same to:

Mr. Greg Steiner Eagle Operating, Inc. P. O. Box 853 Kenmare, ND 58746 (701) 385-4244

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA
CATELL 20 02 CASE NO. 79

locase NO. 1940 By Eagle Ong Steiner

BEFORE THE INDUSTRIAL COMMISSION

OF THE STATE OF NORTH DAKOTA

CACE NO

AFFIDAVIT OF SERVICE BY MAIL

STATE OF NORTH DAKOTA)
) ss
COUNTY OF BURLEIGH)

Lyn Odden, being first duly sworn, deposes and says that on the 22nd day of October, 2002, she served the attached:

Letter to ALL SURFACE OWNERS

by placing a true and correct copy thereof in an envelope addressed as follows:

See attached Exhibit A

and depositing the same, with postage prepaid, in the United States mail at Bismarck, North Dakota.

LYN ODDEN

Subscribed and sworn to before me this 22nd day of October, 2002.

KRISTIE F. JENNINGS Notary Public State of North Dakota My Commission Expires Aug. 30, 2008 Notary Public

Burleigh County, North Dakota

My Commission expires:

Brian & Bonnie Aho R 1 Box 64 G ndin, ND 58038 Dorothy Bohm 9780 Co Rd 9 Mohall, ND 58761-9221

№ bel Beckedahl№ Box 602Mohall, ND 58761-0602

Robert & Kerry Bahl 3328 Primrose Court Grand Forks, ND 58201

Marlo & Carolyn Brackelsberg 3474 Hwy 5 NW Mihall, ND 58761 Bottineau County Road R/W 314 W 5th St Bottineau, ND 58318

Purlington Northern Property Tax Dept. 1 > Box 961089 1 ort Worth, TX 76161-0089 Larry & Donna Cook PO Box 683 Mohall, ND 58761-0683

. hn Cook c/o Judy Dueтте 9564 Co Rd 9 Mohall, ND 58761-9224 John R. Cook PO Box 623 Mohall, ND 58761-0623

Pat Connole 2511 Hwy 5 ohall, ND 58761-9101 Debra Cameron 6257 N 22nd St Arlington, VA 22205

acy Crooks Life Estate 25 28th Ave SW unit D Minot, ND 58701

EXHIBIT A

Eleanor Delap 2(SE 46th Terrace C e Coral, FL 33904-8501 Judith Duerre PO Box 66 Mohall, ND 58761-0066

Joseph Gehringer Trust 7.59 Chapin Rd #B Fort Worth, TX 76116-7707 lvan Gehringer PO Box 382 Mohall, ND 58761-0382

Edna Gilseth

/ DRESS UNKNOWN

Carl Gaenslen ADDRESS UNKNOWN

Fred & Mary Gehringer 2 644 Hwy 58 Barstow, CA 92311 Raymond Gehringer PO Box 382 Mohall, ND 58761-0382

ola Halvorson Estate c/o Denese Prestergard 9611 Co Rd 9 Mohall, ND 58761-9222 George Heller PO Box 471 Mohall, ND 58761-0471

Gail Hutton
15761 Coral Cay Lane
untington Beach, CA 92649

Dave & Arlene Herigstad 3481 100 St NW Mohall, ND 58761

iaynard & Arlene Herigstad 459 94 St NW Mohall, ND 58761 Don Henes PO Box 271 Mohall, ND 58761-0271

Richard & Collen Kinzley 8915 Co Rd 9 Mohall, ND 58761-9224

P lip & Jani Kelly 4 .5 98th St NW Mohall, ND 58761-9217 Barrie & Mary Kelly 620 Willington Dr Spring Creek, NV 89815

Janice M. Knutson 9570 35th Ave NW Mohall, ND 58761 Lillian Larson 15960 38th Ave N Plymouth, MN 55446

Sherryl & Gregory Lunde 100-132 Montecito Rd Los Alamitos, CA 90720 Donald & Deborah Myaer PO Box 175 Mohall, ND 58761-0175

ty of Mohall c/o City Auditor Mohall, ND 58761 Mohall City Park District PO Box 476 Mohall, ND 58761

Robert & Kathy Mau 58404 366th Ave NW enmare, ND 58746 Barry & Mariane Myaer 3695 96th St NW Mohall, ND 58761-9262

ordon Martin 15 Clay Irvine, CA 92720

Everett & Teri Nelson ADDRESS UNKNOWN Marlin Nordmark B : 395

N hall, ND 58761

Frold & Muriel Ring 1 12nd Ave NE Mohall, ND 58761

James Southam 10845 53rd Ave NW erwood, ND 58782-9625

Loren Sundahl) Box 575 ohall, ND 58761-0575

iilip & Renee Steinberger rO Box 1116 Forsyth, MT 59327-1116

Steven Witteman Rox 471 !ohall, ND 58761-0471

Tavid Witteman ox 309 Mohall, ND 58761 Scott Reishus PO Box 152 Mohall, ND 58761-0152

Lorance Schoenberg et al 2311 C Street Steilacoom, WA 98388

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Earl Schwartz Co. PO Box 853 Kenmare, ND 58746

USA Fish & Wildlife c/o J Clark Salyer Refuge PO Box 66 Upham, ND 58789

Farrell & Sally Witteman 3180 Hwy 5 NW Mohall, ND 58761-9114

Witteman Family Partnership 3180 Hwy 5 NW Mohall, ND 58761-9114

William Witteman c/o Olaf Reishus P∩ Box 96 N hall, ND 58761-0096 David & Cryslynn Walker 9640 Co Rd 9 Mohall, ND 58761-9222

F bert Walker F Box 214 Mohall, ND 58761-0214

Duane Zimmerman ADDRESS UNKNOWN

Case 7945

Dear Mr. McCusker,

In answer to your notice sent me concerning a application for Fluid Injection by Eagle Operating, Inc.

I own the NE ¼ 7-161-83 and farm it with no interest in the George Witteman No. 1 oil well and disposal operated by Eagle Operating Inc. I'm very disgusted with the continual spreading damage my farm land is sustaining because of the way this oil operation has been handled over the years with no respect for the surface owner. I kept giving the Eagle Operating the benefit of the doubt, thinking they might do better, but it hasn't happened! I have several pictures showing the damage for proof.

I've been dealing with some medical problems is why I am late with this letter.

Sincerely,

David Witteman

November 25, 2002



WILLIAM R. PEARCE 1910-1978
WILLIAM P. PEARCE
PATRICK W. DURICK
B. TIMOTHY DURICK
GARY R. THUNE •
DAVID E. REICH
JEROME C. KETTLESON
LARRY L. BOSCHEE •
JONATHAN P. SANSTEAD

ATTORNEYS AT LAW

314 EAST THAYER AVENUE P.O. BOX 400 BISMARCK, NORTH DAKOTA 58502 TELEPHONE (701) 223-2890 FAX (701) 223-7865

E-MAIL: law office@pearce-aurick.com

OF COUNSEL HARRY_ PEARCE

November 19, 2002

Mr. Bruce Hicks Assistant Director North Dakota Industrial Commission Oil and Gas Division 600 East Boulevard Bismarck, North Dakota 58505



<u>HAND DELIVERED</u>

EAGLE OPERATING, INC. NDIC CASE NO. 7945

Dear Mr. Hicks:

Please find enclosed herewith for filing an AFFIDAVIT OF SERVICE BY MAIL and Letter to All Surface Owners in regard to the abova-captioned matter.

Should you have any questions, please advi

LB/leo

Enclosure

cc: Mr. Greg Steiner - (w/o enc.)

BEFORE THE INDUSTRIAL COMMISSION OF THE STATE OF NORTH DAKOTA



IN THE MATTER OF THE APPLICATION OF EAGLE OPERATING, INC. FOR AN ORDER OF THE COMMISSION GRANTING AN AREA PERMIT FOR UNDERGROUND INJECTION OF FLUIDS INTO THE UNITIZED FORMATION OF THE MOHALL-MADISON UNIT, RENVILLE AND BOTTINEAU COUNTIES, NORTH DAKOTA, PURSUANT TO CHAPTER 43-02-05 OF THE NORTH DAKOTA ADMINISTRATIVE CODE, AND PROVIDING SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS NECESSARY.

AFFIDAVIT OF SERVICE BY MAIL

STATE OF NORTH DAKOTA)
) ss
COUNTY OF BURLEIGH)

Lyn Odden, being first duly sworn, deposes and says that on the 22nd day of October, 2002, she served the attached:

Letter to ALL SURFACE OWNERS

by placing a true and correct copy thereof in an envelope addressed as follows:

See attached Exhibit A

and depositing the same, with postage prepaid, in the United States mail at Bismarck, North Dakota.

LYNODEN

Subscribed and sworn to before me this 22nd day of October, 2002.

KRISTIE F. JENNINGS
Notary Public
State of North Dakota
W Commission Expires Aug. 30, 2008

Notary Public

Burleigh County, North Dakota

My Commission expires:

Brian & Bonnie Aho RR 1 Box 64 Grandin, ND 58038

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Mabel Beckedahl PO Box 602 Mohall, ND 58761-0602

Robert & Kerry Bahl 3328 Primrose Court Grand Forks, ND 58201

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David Witteman Box 309 Mohall, ND 58761

Witteman Family Partnership 3180 Hwy 5 NW Mohall, ND 58761-9114 William Witteman c/o Olaf Reishus PO Box 96 Mohall, ND 58761-0096

David & Cryslynn Walker 9640 Co Rd 9 Mohall, ND 58761-9222

Robert Walker PO Box 214 Mohall, ND 58761-0214

Duane Zimmerman ADDRESS UNKNOWN



TO: ALL SURFACE OWNERS

FR: EAGLE OPERATING, INC.

RE: APPLICATION FOR FLUID INJECTION

DT: OCTOBER 22, 2002

PLEASE TAKE NOTICE that Eagle Operating, Inc. ("Eagle") has made application to the North Dakota Industrial Commission ("Commission") for an area permit authorizing the underground injection of fluids into the unitized formation of the Mohall-Madison Unit, Renville and Bottineau Counties, North Dakota.

If you have any comments or objections to Eagle's application, please direct them to the Commission at the following address within 30 days of the date of this letter:

Mr. Dave McCusker North Dakota Industrial Commission Oil and Gas Division 600 East Boulevard Bismarck, ND 58505

If you should have any questions regarding Eagle's application for an area permit, please address the same to:

Mr. Greg Steiner Eagle Operating, Inc. P. O. Box 853 Kenmare, ND 58746 (701) 385-4244

BEFORE THE INDUSTRIAL COMMISSION

OF THE STATE OF NORTH DAKOTA

CASE NO. <u>7945</u>

IN THE MATTER OF THE APPLICATION OF EAGLE OPERATING, INC. FOR AN ORDER OF THE COMMISSION GRANTING AN AREA PERMIT FOR UNDERGROUND INJECTION OF FLUIDS INTO THE UNITIZED FORMATION OF THE MOHALL-MADISON UNIT, RENVILLE AND BOTTINEAU COUNTIES, NORTH DAKOTA, PURSUANT TO CHAPTER 43-02-05 OF THE NORTH DAKOTA ADMINISTRATIVE CODE, AND PROVIDING SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS NECESSARY.



APPLICATION OF EAGLE OPERATING, INC.

Eagle Operating, Inc. ("Eagle"), for its application respectfully shows the North Dakota Industrial Commission ("Commission") as follows:

1.

That Eagle is the owner of an interest in the oil and gas leasehold estate in various tracts currently within an area designated by the Commission as the Mohall-Madison Unit.

2.

That Eagle is the operator of the Mohall-Madison Unit.

3.

That pursuant to Chapter 43-02-05 of the North Dakota Administrative Code, Eagle is desirous of converting various existing wells and/or drilling other new wells within the Mohall-Madison Unit for the purposes of utilizing said wells for the injection of fluids into the unitized formation of the Mohall-Madison Unit.

That injection of fluids into the unitized formation of the Mohall-Madison Unit is necessary to enhance the recovery of oil and gas from the pool.

5.

That any injection wells proposed as a result of the Commission granting Eagle's area permit would be drilled and/or completed in such a manner so as to present the movement of injected fluids into or between underground sources of drinking water.

6.

That attached herewith and marked Exhibit A is a plat showing the outline of the Mohall-Madison Unit and the location of all wells in the Mohall-Madison Unit within a one-fourth (1/4) mile radius of the Unit.

7.

That attached herewith as Exhibit B is a list of all surface owners within the boundary of the Mohall-Madison Unit and within a one-fourth (1/4) mile radius of the Mohall-Madison Unit to each of which notice as provided by N.D. Admin. Code § 43-02-05-04(1)(q) will be forwarded.

8.

That Eagle requests that the Commission grant an area permit for underground injection of fluids into the unitized formation of the Mohall-Madison Unit, Renville and Bottineau Counties, North Dakota, pursuant to Chapter 43-02-05 of the North Dakota Administrative Code and providing such other and further relief as the Commission deems necessary.

WHEREFORE, applicant requests that the matter be set for hearing pursuant to North Dakota Administrative Code § 43-02-03-88.1 and that thereafter the Commission issue its Order granting the relief requested and such other and further relief as the Commission may deem appropriate.

DATED this day of October, 2002.

PEAL & WHICK
By____

LAWRENC ABENDER
Attorneys for Applicant
Eagle Operating, Inc.
314 East Thayer Avenue
Post Office Box 400
Bismarck, North Dakota 58502

STATE OF NORTH DAKOTA)
) ss.
COUNTY OF BURLEIGH)

LAWRENCE BENDER, being first duly sworn on ooth, deposes and says that he is the attorney for the applicant named herein, that he has read the to regular application, knows the contents thereof, and that the same is true to the best of this attent? It is dedge and belief.

LAWRENCE & INDER

Subscribed and sworn to before me this

day of October, 2002.

LYNETTE ENTZI-ODDEN Notary Public, State of North Dakota My Commission Expires JUNE 26, 2005 Lynette Entzi-Odden, Notary Public Burleigh County, North Dakota

My Commission Expires:

MOHALL MADISON UNIT SURFACE OWNERSHIP PLAT Bottineau Co. Renville Co. Joseph Dorothy Donna Cook Gehringer Steve Witteman Philip Bohm Trust Kelly Lorance ===== IJ Schoenberg Colleen et al Philip Farreli & Salty Witteman Kinzley & Jani et al Kelly Stacy Crooks # Estate O Mohall Unit Outline Colleen Richard Lorance Kinzley Ivan Gehringer Scott Reishus & Coleen Schoenberg Kinzley et al Donald & Mabel C. Viola Mohall City James John 🖺 Harold # & Murial Ring Deborah Halvorsen Gilseth Southam Cook Park District E Myaer Beckedahl Life Estate CBA Κ John Farrell Cook Edna & Salty U.S. Mabel Beckedahi Carl Gaenslen Gail Witteman Gilseth Donald Clifford Myaer Hutton Robert Robert G el al Lillian & Кепу & Kathy Larson Ehilip & Renee Steinberger Mau BaH Fieanor Everett Judith John George Delap & Teri Heller Duerre Cook Nelson David Sherryl & Brian & Bonnie Marlo & Carolyn Gregory Pat Connole Aho et al Brackelsberg Witternan Lunde David М Witteman Dave & Arlene F Herigidad Many Raymond Gehringer Debra Witternan Maynard Fred F. & Ma Gehringer Duane Marlin Cameron Family & Arlene Zimmerman Nordmark **Partnership** et al Herigstad et al N Ø.Z David & Marlo & Carolyn Beverly Brackelsberg Witteman Mario & C. Brackelsberg Trust 18 14 Farrell & Sally Witteman **R 83W** R 84 W SMALL TRACT OWNERS I William & Nellie Witternan Sam & Audrey Scott

T 162 N

- B Donald R. Henes
- C Barry & Mariane Myaer D Gordon Martin
- E Loren Sundahl
- F David & Cryslynn Walker G Robert Walker
- H Larry & Donna Cook
- J Hoffman Township
- K Earl Schwartz Co
- Janice M. Knutson
- Cutbank Township
- Ν Cutbank Township
- O Barrie & Mary P City of Mohali Barrie & Mary Kelly

EXHIBIT A

FirstName Brian & Bonnie Aho	Address1 RR 1 Box	City Grandin	State ND	PostalCode 58038
Dorothy Bohm	64 9780 Co Rd 9	Mohail	ND	58761-9221
Mabel Beckedahl	PO Box 602	Mohall	ND	58761-0602
Robert & Kerry Bahl	3328 Primrose Court	Grand Forks	ND	58201
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Viola Halvorson	9611 Co Rd 9	Mohall	ND	58761-9222

FirstName	Address1	City	State	PostalCode
Estate c/o Denese				
Prestergard	DO Davis	Mahall	NID	59741 0471
George Heller	PO Box 471	Mohall	ND	58761-0471
Gail Hutton	16761 Coral Cay Lane	Huntington Beach	CA	92649
Dave & Arlene Herigstad	3481 100 St NW	Mohall	ND	58761
Maynard & Arlene	3459 94 St NW	Mohall	ND	58761
Herigstad Don Henes	PO Box 271	Mohall	ND	58761-0271
Hoffman Township				
Richard & Collen	8915 Co Rd 9	Mohall	ND	58761-9224
Kinzley Philip & Jani	4035 98th	Mohall	ND	58761-9217
Kelly Barrie & Mary Kelly	St NW 620 Willington	Spring Creek	NV	89815
Janice M.	Dr 9570 35th	Mohall	ND	58761
Knutson Lillian Larson	Ave NW 15960 38th Ave	Plymouth	MN	55446
Sherryl & Gregory Lunde	N 12100-132 Montecito Rd	Los Alamitos	CA	90720
Donald & Deborah	PO Box 175	Mohall	ND	58761-0175
Myaer City of	c/o City	Mohall	ND	58761
Mohall Mohall City	Auditor PO Box	Mohall	ND	58761
Park District Robert & Kathy Mau	476 58404 366 th Ave NW	Kenmare	ND	58746
Barry & Mariane	3695 96th St NW	Mohall	ND	58761-9262
Myaer Gordon Martin Everett &	#15 Clay	Irvine	CA	92720
Teri Nelson Marlin	Box 395	Mohall	NĎ	58761
Nordmark Scott	PO Box	Mohall	ND	58761-0152

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David & Cryslynn Walker	9640 Co Rd 9	Mohall	ND	58761-9222
Robert Walker Duane Zimmerman	PO Box 214	Mohall	ND	58761-0214



WILLIAM R PEARCE 1910-1978
WILLIAM P PEARCE
PATRICK W DURCK
SARY R THUNE •
DAVID E REICH
LEROME C. KETTLESON
LARRY L BOSCHEE •
LOWERNCE BENDER, PCL •
LONATHAN P. SANSTEAD

ATTORNEYS AT LAW

314 EAST THAYER AVENUE PO BOX 400 BISMARCK, NORTH DAKOTA 58502



October 21, 2002

Mr. Bruce Hicks Assistant Director North Dakota Industrial Commission Oil and Gas Division 600 East Boulevard Bismarck, North Dakota 58505 <u>HAND DELIVERED</u>

PERMIT FOR UNDERGROUND INJECTION OF FLUIDS INTO THE UNITIZED FORMATION OF THE MOHALL-MADISON UNIT, RENVILLE AND BOTTINEAU COUNTIES, NORTH DAKOTA,

Dear Mr. Hicks:

Please find enclosed herewith for filing an APPLICATION OF EAGLE OPERATING,

INC.

If you should have any questions, please a

please a

LAWRENCFAENDER

LB/leo

Enclosure

cc: Mr.

Mr. Lynn Helms - (w/enc.)

Mr. Bruce Hicks - (w/enc.)

Mr. Charles Carvell - (w/enc.)

Mr. Bob Mau - (w/enc.)

Affidavit of Publication

STATE OF NORTH DAK County of Bottineau) ss)		RECENTION OF STREET OF STR
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NOTICE OF PUBLICATION NORTH DAKOTA INDUSTRIAL COMMISSION BISMARCK, NORTH DAKOTA

The State of North Dakota by its Industrial Commission hereby gives notice pursuant to law and the rules and regulations of said Commission promulgated thereunder of the following public hearing to be held at 9:00 a.m. on November 20, 2002, Pioneer Room, State Capitol, Bismarck, North Dakota. For the purpose of this hearing, the Commission, any member thereof acting as Examiner, or an Examiner appointed by the Commission will receive testimony and exhibits.

ATTENTION PERSONS WITH DISABILI-TIES: If you plan to attend the hearing and will need special facilities or assistance relating to a disability, please contact the North Dakota Industrial Commission at 701-328-3722 by November 6, 2002.

STATE OF NORTH DAKOTA TO:

All named parties and persons having any right, title, interest, or claim in the following cases and notices to the public. Case No. 7945: On a motion of the Commission to consider the application of Eagle Operating, Inc. for an order granting an area permit for underground injection of fluids into the unitized formation of the Mohall-Madison Unit, Renville and Bottineau Counties, North Dakota, pursuant to Chapter 43-02-05 of the North Dakota Administrative Code, and providing such other and further relief as the Commission deems necessary. Case No. 7947: On a motion of the Commission to consider the application of Ballantyne Oil Co. for an order amending the spacing in the Kane-Madison Pool to allow the drilling of a second well on a spacing unit described as the E/2 of the NW/4 of Section 35, T.162N., R.79W., Bottineau County, North Dakota.

Signed by, John Hoeven, Governor Chairman, ND Industrial Commission 10-29

BISMARCK TRIBUNE

Printing & Publishing 11/05/02 OIL & GAS PO Box 5516 Bismarck, ND 58506-5516 701-223-2500 UNAPPLIED AMOUNT 3 113. 92 PLEASE PAY BY NOV 14. In State 800-472-2273 Fax 701-223-4240 **ADVERTISING INVOICE and STATEMENT** BILLING DATE 11/05/02 **CR54 DIL & GAS BISMARCK TRIBUNE PO BOX 5516 BISMARCK ND 58 BREED ACCOUNT NUMB 400 E BLVD 58506 172705-1 BISMARCK ND 58505 CREDIT CARD PAYMENT (CIRCLE ONE) 172705 - 1VISA INVOICE #01727051 TL CARD #: LIGAL PUBLICATIONS HECK # EXP. DATE: __ SIGNATURE: _ CREDIT CARD USERS FAX TO: 701-223-4240 PLEASE DETACH AND RETURN UPPER PORTION WITH YOUR REMITTANCE NEWSPAPER RECHENCE DESCRIPTION OTHER COMMENTS CHARGES GROSS AMOUNT NET APSUNT NOTICE OF PURLICATIO 11-01 01727051 NOTICE OF PUBLICATION NORTH DAKOTA INDUSTRIAL COMPRISSION the proposed spacing unic boundary and/or such other and further reliair as: the 13 92 113. 92 64 all interests in a spacing units the Medora-Madison Pool described as the St. of Section Commission deems appropriate. Case No. 7940: On a motion of the Commission to consider the application of Continental Resources, Inc. for an order pursuant to North Dakotz Administrative Code § 43-02-03-99. BISMARCK, NORTH DAKOTA 26 and all of Section 35, T.139\cup R.102W., Billings County North Dakota; authorizing The State of North Dakota by its Industrial Billings County North Dakota; authorizing the recovery from each nonparticipating lessee a risk penalty as provided by North Dakota Century Code § 38-08-08 and such other and further religible the Commission deems appropriate case No. 7945: On a motion of the Commission to consider the application of Eagle Operating, Inc. for an order granting an area permit for underground injection of fluids into the unitized formation of the Mohall-Madison Unit. Remille and Bottineau Counties. North Commission hereby gives notice pursuant to law and the rules and regulations of said. Commission promulgated thereunder of the APPIDAVIT OF PUBLICATION STATE OF NORTH DUNOTA SS 03-88.1 pooling all interests in a spacing unit for the Marquis-Madison Pool described as Section 6, T.139N., R.101W., Billings County, following public hearing to be held at 9:00 a.m. on November 20, 2002, Pioneer Room, County of Burissyn RRY FUBLIC SERGE VEL A POTREY FUBLIC WHO DELLO TALY EV State Capitol, Bismarck, North, Dakota, For the purpose of this hearing the Commission, North Dakota; authorizing the recovery from each nonparticipating lessee a risk penalty as provided by North Dakota Century Code § any member thereof acting as Examiner, or an Examiner appointed by the Commission will THERE IS BE USER NORAKSIS parentees by the Commission will parentee testimony and exhibits.

ATTENTION PERSONS WITH DISABILITIES: If you plan to attend the hearing and will need special facilities or assistance relate. 38-08-08 and such other and further relief as KDE TERMISH T the Commission deems appropriate. Case NECTAT: On a motion of the Commission Renville and Bottineau Counties, North Dakota pursuant to Chapter 43-02-05 of the North Dakota Administrative Code, and pro-viding such other and further relief as the Bando Diane to consider the application of Continental Resources, Inc. for an order amending the field rules for the Marquis-Madison Pool toing to a disability, please contact the North Dakota Industrial Commission at 70f-328-3722 by November 6, 2002. viding such other and further relief as the Commission deems, necessary. Case No. 7946: On a motion of the Commission to consider the Marketon of Eagle Operating Inc. 1997 (1997) and the Self-of the Self-of the Self-of the Self-of Section 19:T.160N., R.84W., North Grano-Madison Unit, Remille County, North establish a 640-acre spacing unit comprised of Section 36, T.140N., R.102W., Billings Notary Public in and for the State of STATE OF NORTH DAKOTATO: County, North Dakota, and authorizing the All named parties and persons having any drilling of one horizontal well within said section not less than 500 feet to the proposed. right, title, interest, or claim in the following cases and notices to the public Case No. 7937. On a motion of the Commission to-Consider the application of Burlington Resources Oil & Gas Company LP for an order pursuant to North Dakota Administrative Code (NDAC) Section 43-02spacing unit boundary and/or such other and further relief as the Commission deems appropriate. Case No. 7942. On a motion of RONDA DIC Notary Public, STAT Daloga, for the injection of fluids in the unithe Commission to consider the application My Commission Ext tized formation for enhanced recovery purof Continental Resources, Inc. for an order pursuant to North Dakota Administrative 43-02-05 of the North Dakota Administrative Code § 43-02-03-88pooling all interests in all Code; and providing such other and further Code: and providing such other and further relief, as, the Commission deems necessary.

Case: No. 7947: On a motion of the Characteristic transfer the application of Ballantyne Oil Cofor an order amending the spacing in the Kane-Madison Pool to allow the drilling of a second well on a spacing unit described as the E/Z of the NW/4 of Section 35.T.162N.R.79W, Bottineau County, North spacing unit for the Marquis-Madison Pool described as Section 36, T.140N, R.102W, Billings County, North Dakota; authorizing the recovery from each nonparticipating lessee a risk penalty as provided by North Daliota Century Code § 38-08-08 and such other and further relief as the Commission deems approximate the commission of the com the recovery from each nonparticipatis BW #43-355H 16, NE/4 SE/4 Section 35, T.131N., R.106W., both in Cedar Hills Field, Bowman County, North Dakota, pursuant to NDAC Chapter 43-02-05 and providing such other and further relief as the Commission deems appropriate. Case No. 7943: On a motion of the Commission to consider the application of Continental Resources, Inc. for an order extending the field boundaries and amending the field rules for the Medical Mailson Pool to establish a 960-acre spacing unit comprised of the S/2 of Section 26 and all of Section 35, T.139N., R.102AV, Billings' County North Determined the extension and continuous control of the S/2 of Section 35, T.139N., R.102AV, Billings' County North Determined the extension and control of the S/2 of Section 35, T.139N., R.102AV, Billings' County North Determined the extension and control of the system and control of the s other and further relief as the Commission deems appropriate. Case No. 7938. On a motion of the Commission to consider the Daloga: Case No.7948: On a motion of the Commission to consider the application of motion of the Commission to consider the application of Continental Resources, Inc. for an order pursuant to North Dakodi of Administrative Code (NDAC) Section 43-42g of 03-88.1 authorizing the conversion to eshanced recovery into the Cedar Hills North-Red River B. Unit, of the following wells: Winchester: 42-1751-6. SE/4. NEW Section 17-1132NE, R 106W, the Johnson, IZ. #12-18NH, SW/6-NW/4-Section 18-1-34NH, R-106W, the Little Beams: #43-24SH, NEW SE/4-Section 24-1132N. R 107W, and the Tesoro High Plains Pipeline for an order allowing the use of a truck mounted Coriolis meter as an allocation and custody transfer meter as an allocation and custody transfer meter or for such other and further relief as the Commission deems appropriate. Case No. 7930. (Continued). On a motion of the commission, to consider the proper spacing to the distribution of the Commission, to consider the proper spacing to the distribution of the Proper spacing to the Commission, to consider the proper spacing for the trie financial relation, and the consideration of the trie financial field rules as may be necessary. (PDC Corporation) County, North Dakota, and authorizing the STATEMENT OF ACCOL drilling of one horizontal well withinesaid spacing unit not less than 500 feet to the pro-CURRENT NET AMOUNT DUE specing unit not less than 500 feet to the propoted spacing unit boundary and/or, sitch's
other and further relief as the Commission's
deems appropriate. Case No. 7944: On a
motion of the Commission to consider the
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Administrative Code § 48 02 03 88. [pooling T DUE 92 SE/4 Section 24, T.132N., R.107W., and the Little Besver #43-24NH, NE/4 SE/4 Section 24, T.132N., R.107W., all in Cedar Hills Field, Corporation) Signed by, John Hoev You may reach us BISMATCK To Morth Delcora guissant to MDAC Chapter 43-02-05 and providing such other and further relief at the Commission deems appropriate. Case (No.1723) On as a portion of the Continental Resources, inc. for the Distoration of the Continental Resources, inc. for the Distoration of the Continental Resources, inc. for the Distoration of Continental Resources, inc. for the Distoration Distoration of Continental Resources, inc. for the Distoration of Continental Resources, inc. for the Distoration Distorati You may John Hoeven, Governor Chairman, ND Industrial Commission 800-767-35 DIL & GAS spacing unit comprised of Section 6, T.139Na. R.101W, Billings County, North Dakota, and

Affidavit of Publication

STATE OF NORTH DAKOTA County of Renville

55.

Notice of **Publication**

NORTH DAKOTA INDUSTRIAL COMMISSION BISMARCK, NORTH DAKOTA

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Industrial Commission at 701-328-3722 by November 6, 2002.

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		inty and State, being first the Y FARMER is a weekly new	
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hereinafter mentione	d, and that I	, LaVonne L. Erickson th	ne undersigned,
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affidavit and that	the advertis	ement headed	
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other and further relief as the ission deems necessary.	,	Resus. MI Joh	(user)
Signed b John Hoeven, Govern	•	Notare Bubli	c, North Dakota.

RENAE M. JOHNSON NOTARY PUBLIC Renville County, North Dakota My Commission Expires

Chairman, ND Industrial Commission