

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 quarter-quarter, 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

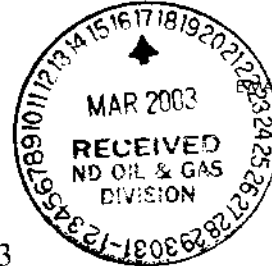
/s/ Wayne Stenehjem, Attorney General

/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 •
LAWRENCE BENDER, PC •
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.offices@pearcedurick.com

OF COUNSEL:
HARRY J. PEARCE

March 17, 2003

HAND DELIVERED

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 advise.

Sincerely,


LAWRENCE BENDER

LB/leo

Enclosure

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

Amended

ASTRO-CHEM LAB, INC

4102 2nd Ave. West

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



Phone (701) 572-7355

WATER ANALYSIS REPORT

SAMPLE NUMBER W-02-1046

DATE OF ANALYSIS 5-29-02

COMPANY Eagle Operating

CITY Kenmare

STATE ND

WELL NAME AND/OR NUMBER Don Henes Well

DATE RECEIVED 5-14-02

DST NUMBER

SAMPLE SOURCE Surface Well

LOCATION SWSW OF SEC. 36 TWN. 162 RANGE 84 COUNTY Renville

FORMATION

DEPTH 16'

DISTRIBUTION Greg Steiner - Kenmare, ND

RESISTIVITY @ 77°F = 4.233 Ohm-Meters

pH = 9.02

SPECIFIC GRAVITY @ 77°F = 1.000

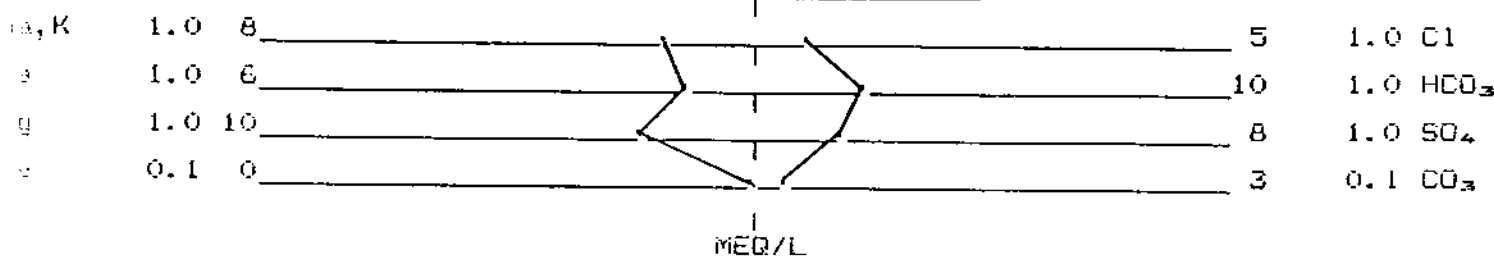
H₂S = Negative

TOTAL DISSOLVED SOLIDS (CALCULATED) = 1631 mg/L (1631 ppm)

SODIUM CHLORIDE (CALCULATED) = 297 mg/L (297 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	5.6	111	CHLORIDE	5.1	180
MAGNESIUM	10.2	113	CARBONATE	0.3	9
SODIUM	8.2	188	BICARBONATE	10.0	610
IRON	0.0	0.0	SULFATE	8.2	392
CHROMIUM	0.0	0.0	NITRATE	0.3	18
BARIUM	0.0	0.0			
POTASSIUM	0.3	10			

WATER ANALYSIS PATTERN



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

ANALYZED BY: C. Hagen

EXHIBIT 8

Amended

ASTRO-CHEM LAB, INC

4102 2nd Ave. West

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



WATER ANALYSIS REPORT

SAMPLE NUMBER W-02-1043

DATE OF ANALYSIS 5-29-02

COMPANY Eagle Operating

CITY Kenmare

STATE ND

WELL NAME AND/OR NUMBER Dale Randas Well

DATE RECEIVED 5-14-02

DST NUMBER

SAMPLE SOURCE Surface Well

LOCATION SWSW OF SEC. 30

TWN. 162

RANGE 83

COUNTY Bottineau

FORMATION

DEPTH 12'

DISTRIBUTION Greg Steiner - Kenmare, ND

RESISTIVITY @ 77°F = 3.419 Ohm-Meters

pH = 7.22

SPECIFIC GRAVITY @ 77°F = 1.000

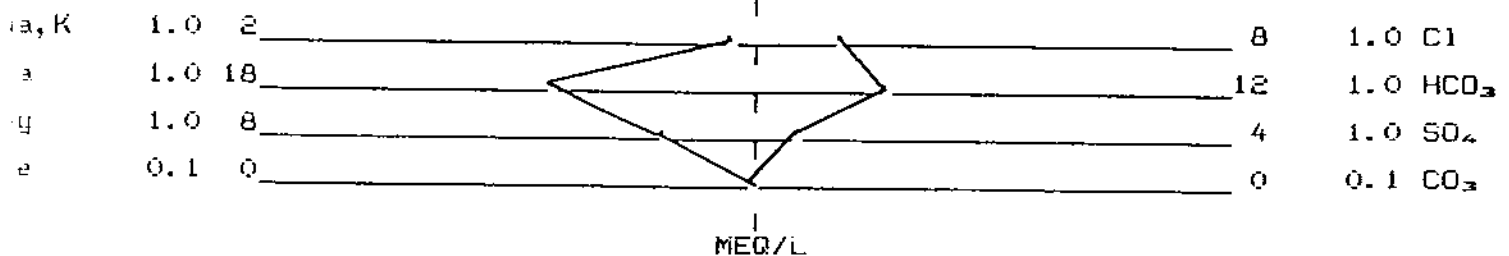
H₂S = Negative

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

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

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	18.4	365	CHLORIDE	7.6	270
MAGNESIUM	7.6	84	CARBONATE	0.0	0
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			

WATER ANALYSIS PATTERN



REMARKS Date Sampled 5-14-02

Conductivity = 2721.3 µmhos/cm

ANALYZED BY: C. Hagen

Amended

ASTRO-CHEM LAB, INC

4102 2nd Ave. West

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



WATER ANALYSIS REPORT

SAMPLE NUMBER W-02-1044

DATE OF ANALYSIS 5-29-02

COMPANY Eagle Operating

CITY Kenmare

STATE ND

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 pH = 8.09

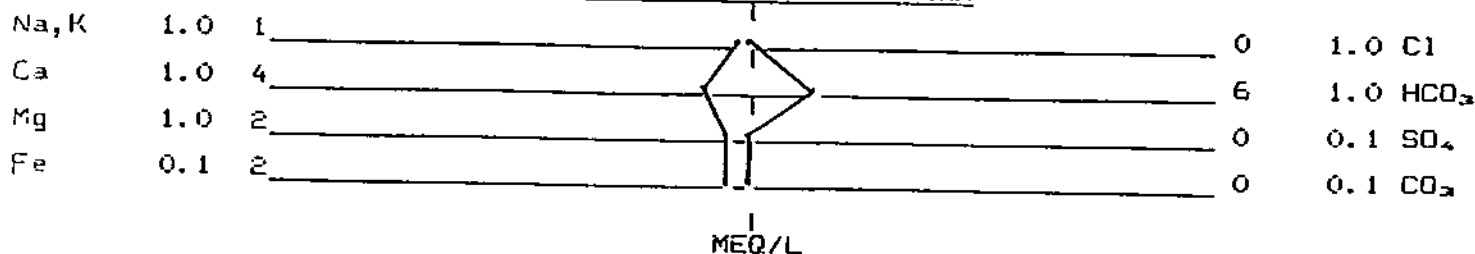
SPECIFIC GRAVITY @ 77°F = 1.000 H₂S = Negative

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

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

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	3.8	75	CHLORIDE	0.3	11
MAGNESIUM	2.0	22	CARBONATE	0.0	0
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	0
BARIUM	0.0	0.0			
POTASSIUM	0.3	11			

WATER ANALYSIS PATTERN

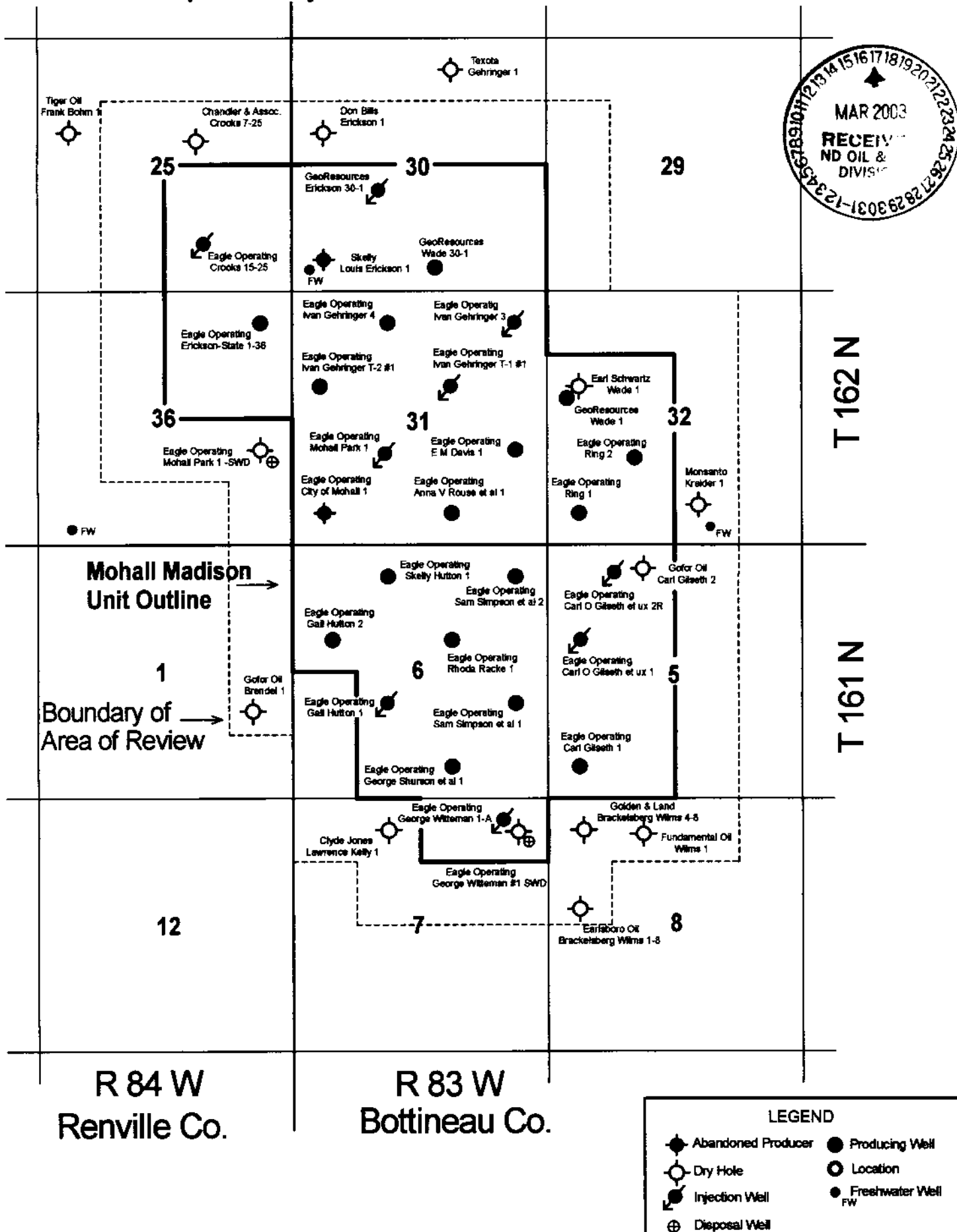


REMARKS Date Sampled 5-14-02
Conductivity = 717.9 µmhos/cm

ANALYZED BY: C. Hagen

Eagle Operating Inc. - Mohall Madison Unit - Spot Map

Proposed Injection Wells - Area of Review



SFN5729

STATE OF NORTH DAKOTA

AFFIDAVIT OF MAILING

COUNTY OF BURLEIGH

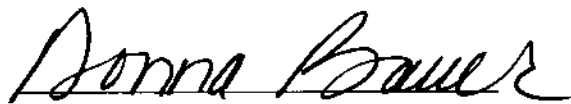
I, Donna Bauer, being duly sworn upon oath, depose and say: That on the 3rd day of January, 2003 enclosed in separate envelopes true and correct copies of the attached Order No. 9365 the North Dakota Industrial Commission, and deposited the same with the United State Postal Service in Bismarck, North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

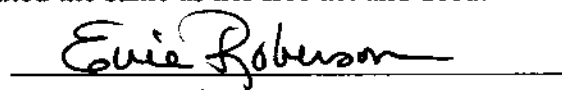
Lawrence Bender
Pearce & Durick
P. O. Box 400
Bismarck, ND 58502

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

On this 3rd day of January, 2003, before me personally appeared Donna Bauer 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 11-03-2004

BEFORE THE INDUSTRIAL COMMISSION
OF THE STATE OF NORTH DAKOTA

CASE NO. 7945
ORDER NO. 9343

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.
- (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

SFN5729

STATE OF NORTH DAKOTA

AFFIDAVIT OF MAILING

COUNTY OF BURLEIGH


I, Donna Bauer, being duly sworn upon oath, depose and say: That on the 23rd day of December, 2002, enclosed in separate envelopes true and correct copies of the attached Order No. 9343 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

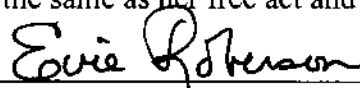
Lawrence Bender
Pearce & Durick
P. O. Box 400
Bismarck, ND 58502

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

On this 23rd day of December, 2002, before me personally appeared Donna Bauer 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 11-03-2004

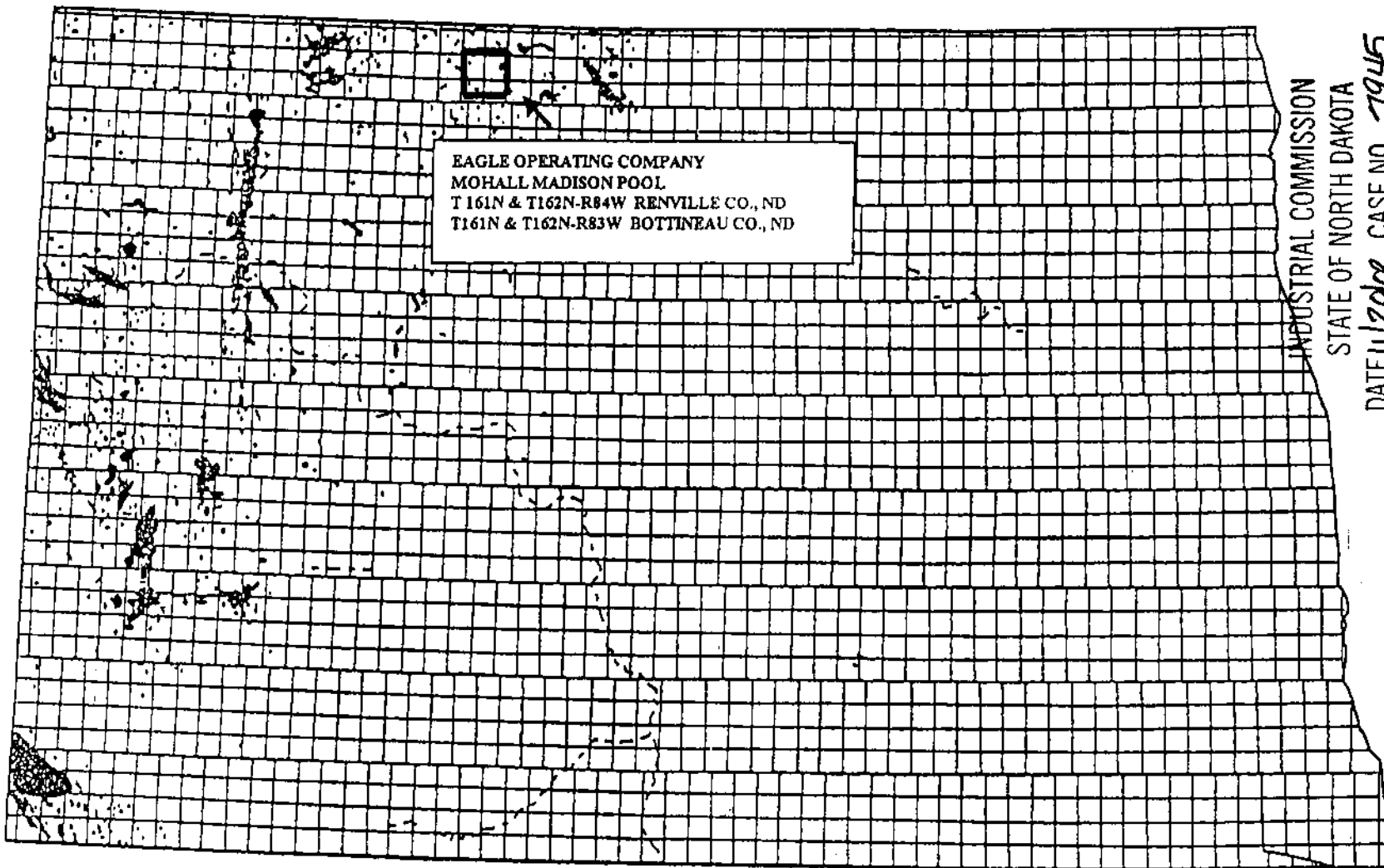
EAGLE OPERATING, INC.

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

INDUSTRIAL COMMISSION

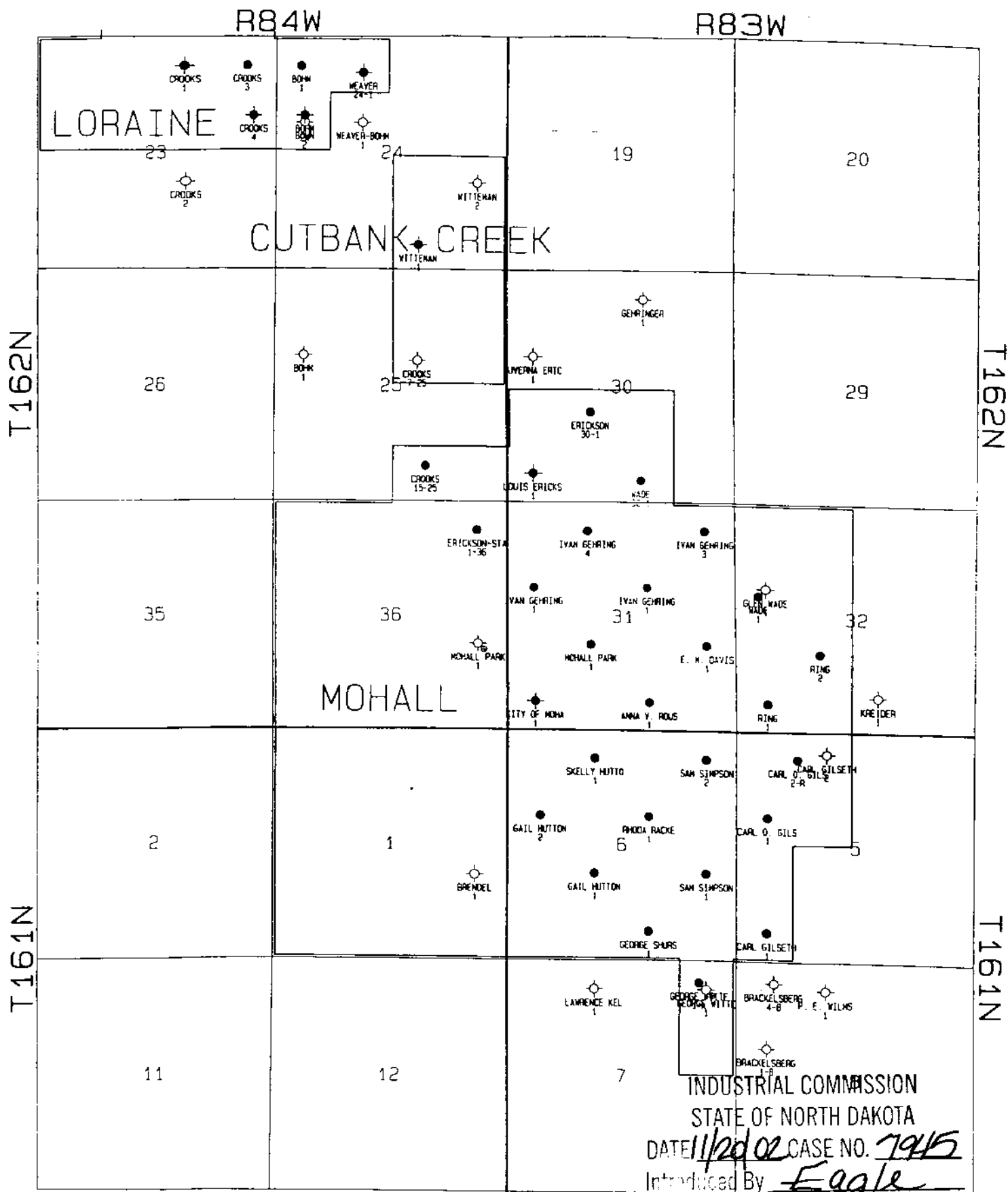
STATE OF NORTH DAKOTA

DATE 11/20/02 CASE NO. 7945

Introduced By Eagle

EXHIBIT

Identified By Greg Steiner



R84W

MOHALL AREA FIELDS

R83W

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA

DATE 11/20/02 CASE NO. 7945

Introduced By Eagle

Introduced By Greg Steiner

OIL WELL LOCATIONS WITH WELL NAME AND NUMBER

PREPARED BY N.D.I.C. OIL & GAS DIVISION

SCALE: 1 INCH = 3000 FEET

May 29, 2002

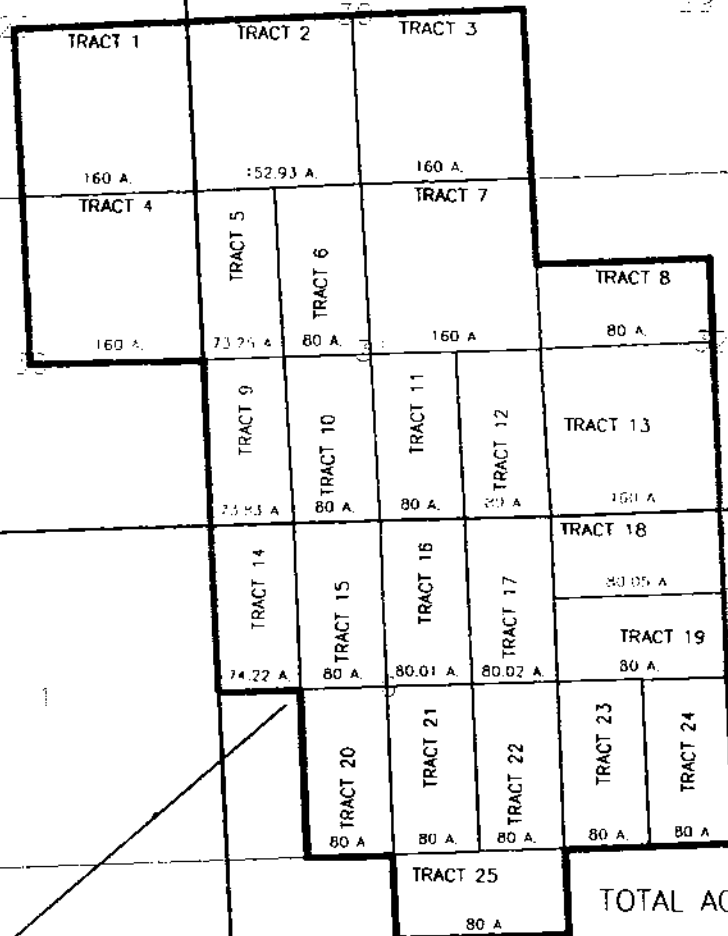
EXHIBIT #2

MOHALL MADISON UNIT

RENVILLE COUNTY BOTTINEAU COUNTY

T 162 N

T 161 N



TOTAL ACRES=2454.31

MOHALL MADISON UNIT OUTLINE

R 84 W

R 83 W



EXHIBIT #3

EAGLE OPERATING INC.

INDUSTRIAL COMMISSION

BOTTINEAU & RENVILLE CO., NORTH DAKOTA

DATE 11/20/02 CASE NO. 7945

Introduced By Eagle

Exhibit 3

Identified By Greg Stulur

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.

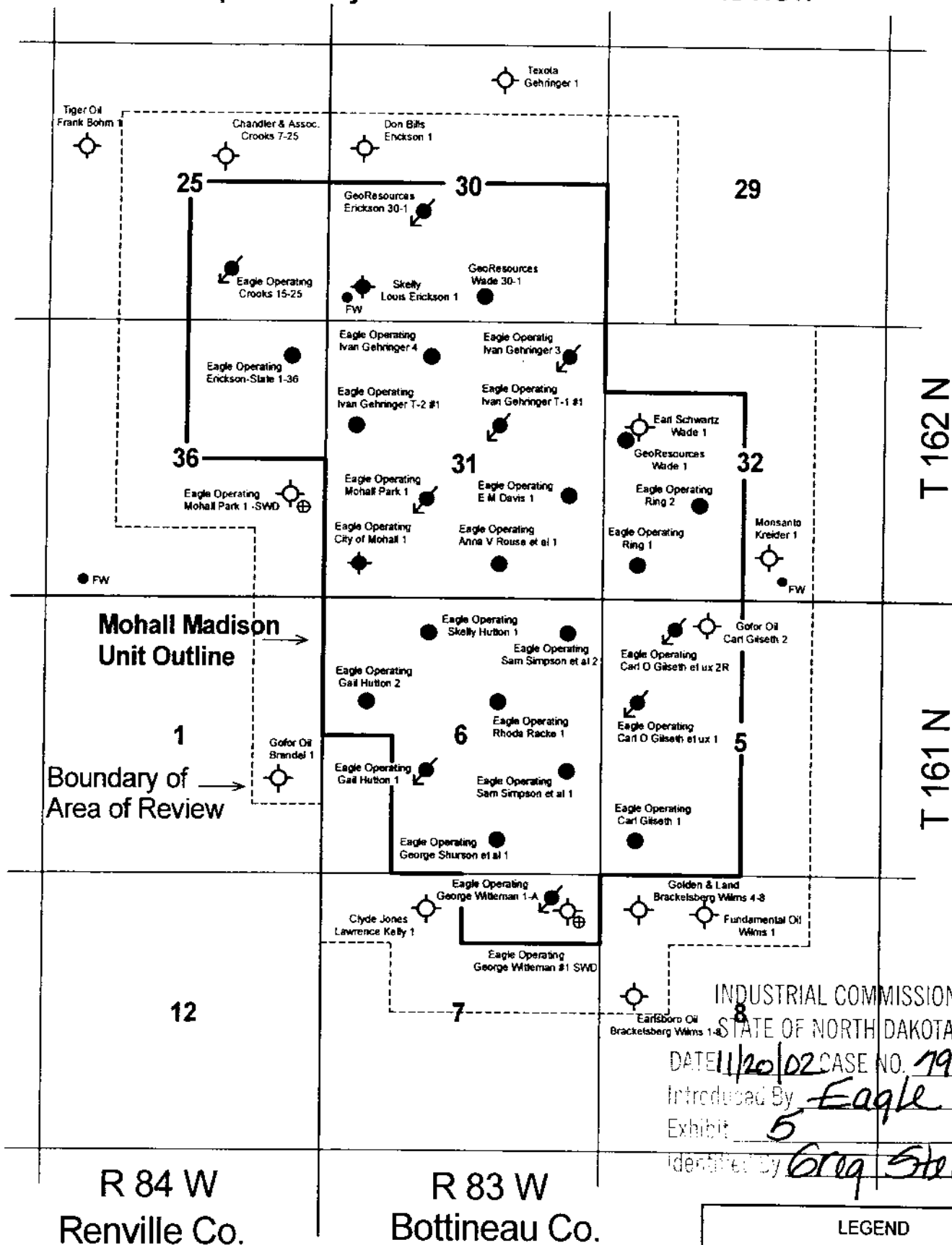
DEPTH TO BASE OF FRESHWATER ZONE:

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 11/20/02 CASE NO. 7945
Introduced By Eagle
Ex. At 4
Introduced By Greg Steiner

Eagle Operating Inc. - Mohall Madison Unit - Spot Map

Proposed Injection Wells - Area of Review



LEGEND	
Abandoned Producer	Producing Well
Dry Hole	Location
Injection Well	Freshwater Well (FW)
Disposal Well	

**N. Dakota State Industrial Commission
Oil and Gas Division**

WELL COMPLETION REPORT

OPERATOR Gofor Oil Inc., FIELD Mohall
 STREET P. O. Box 285 POOL Mission Canyon
 CITY Minot STATE North Dakota COUNTY Bottineau
 LEASE NAME Secrize Wetteman WELL NO. 1 ACRES IN UNIT 80
 LOCATION NE of NE 1/4 SEC. 7 TWP. 181 RGE. 83 ELEVATION 1615 (BPP or KB.)
 PERMIT NO. 4132 ELECTRIC OR OTHER LOGS RUN Gamma Ray Neutron 11/7 19 66
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL 1

DATA ON TEST

DATE TEST COMMENCED 11/22/66 19 66 HOUR 8 A.M. DATE TEST COMPLETED 11/23/66 19 66 HOUR 8 A.M.
 LENGTH OF TEST 24 HOURS MINUTES

FOR FLOWING WELL:

FOR PUMPING WELL:

FLOWING PRESSURE ON CSG. LBS./SQ. IN. LENGTH OF STROKE 48" INCHES
 FLOWING PRESSURE ON TBG. LBS./SQ. IN. NUMBER OF STROKES PER MINUTE 8
 SIZE TBG. IN. WORKING BARRELS 1 1/2" (SIZE IN.)
 SIZE CHOKE IN. TYPE CHOKE (POS.ADJ.)
 SHUT IN PRESSURE SIZE TBG. IN. NO. FT. RUN
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR
 OTHER ARTIFICIAL DEVICE?

RESULT OF THIS TEST (BBL. NET OIL PER 24 HRS.) 15
 GAS-OIL RATIO OF THIS WELL IS TEST (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 80
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 26

NAME OF PIPE LINE OR OTHER CARRIER USCOF, Saint Louis Park, Minnesota
 IF SHOT: DATE NO. QTS. USED
 IF PERFORATED: NO. HOLES PER FT. IF ACIDIZED: NO. GALS. USED 150
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Mission Canyon FROM 4453 FT. TO 4454 FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Wireline
 DATE WELL COMPLETED 11/9/66 19 66 HOUR WELL COMPLETED 8 A.M.
 TOP OF PAY FT.

Testing on Pump - No swab tests taken

TOTAL DEPTH OF WELL 4497 FT.
 PLUG BACK DEPTH 4465 FT.

WAS THIS WELL CORED? No WHAT INTERVALS?
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. (None taken)

CASING RECORD

Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
8 5/8"	375	375	275				
4 1/2"	4437	4497	250				

EXECUTED THIS 23rd DAY OF November 19 66 GOFOR OIL, INC.
 (Company or Operator)
 STATE OF North Dakota Vern C. Lund President
 COUNTY OF Ward (Signature) (Title)

Before me the undersigned authority, on this day personally appeared Vern C. Lund 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 the same are true.

Subscribed and sworn to before me this the 23rd day of November 19 66

My Commission expires October 16, 1969

Notary Public in and for

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA
 DATE 11/20/66 CASE NO. 7945
 Introduced By Eagle
#4
Greg Steiner

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:09 AM

4180

1-A WITTEMAN

State: NORTH DAKOTA
 County: BOTTINEAU
 Operator: GOFOR OIL CO INC
 API: 33009009550000
 Initial Class: D
 Target Objective:
 Final Well Class: DO
 Status: OIL
 Field: MOHALL
 Permit: 4192 on SEP 15, 1972

IC:

Projected TD: 4600 Formation: MADISON Abandonment Date:

Hole Direction:

IP Summary:

Oil
15 BPD

Gas

Water
70 BBL

Top Form

MISSION CANYON /ANHY/ PORO/

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
 Contractor: HARRELL & HARRELL
 Rig Release Date: Rig #

IP # 001

Top Formation: MISSION CANYON /ANHY/ PORO/
 Base Formation: MISSION CANYON /ANHY/ PORO/
 Oil: 15 BPD
 Gas:
 Interval: 4453 - 4454
 Duration of Test: Hours
 Oil: Gravity: 28
 Prod Method: PERF
 Perforations: Interval Cnt Type Shots/Ft Top Formation
 4453 - 4454 JET 4 FT 352MSNC MISSION CANYON /ANHY/ PORO/

Condst:

Water: 70 BBL

Method: PUMPING

Choke:

GOR:

Treatments: 1 Interval: 4453 - 4454

PI/Dwights PLUS on CD Scout Ticket

4/180

Date: 10/9/2001

Time: 11:09 AM

PD # 001

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

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil: 10 BPD
Gas:
Interval: 4453 - 4454
Duration of Test: Hours
Oil: Gravity:
Prod Method: PERF
Perforations: 352MSNC
Perf Interval: 4453 - 4454
Type of Perfs: JET

Condst:
Water: 70 BBL
Method: PUMPING
Choke:
GOR:
MISSION CANYON /ANHY/ PORO/
Shots/Ft: 4
Interval Perf Count:

PD # 002

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil:
Gas:
Interval: 4453 - 4454
Duration of Test: Hours
Oil: Gravity:
Prod Method: PERF
Perforations: 352MSNC
Perf Interval: 4453 - 4454
Type of Perfs: JET

Condst:
Water:
Method: UNDESIGNATED
Choke:
GOR:
MISSION CANYON /ANHY/ PORO/
Shots/Ft: 4
Interval Perf Count:

Treatments: 100
Interval: 4453 - 4454
Fluid: 150 GAL
Additive: ACID Type: A
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 @ -

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: P 15 BOPD 28.0 Grav, 60 BWPD
Perfs: 4453-4454 (Madison)
Perfs: /4; A/150 gals; P/15 BOPD, 80% wtr, grav 28;
Dst: None
Cores: None
Dwights number: R8071800

Operator Address

PI/Dwights PLUS on CD Scout Ticket

Date: 10/9/2001

Time: 11:09 AM

1 GEORGE WITTEMAN

3781

State: NORTH DAKOTA
County: BOTTINEAU
Operator: KIDD BARRON
API: 33009008590000
Initial Class: D
Target Objective:
Final Well Class: D
Status: D&A
Field: MOHALL
Permit: 3793 on SEP 15, 1972
Projected TD: 4600 Formation: MADISON
Hole Direction:
Abandonment Date:

Location

Section, Twp., Range: 7 161 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 remark:
ABHL: From Surface: TVD:

Dates and Depths

Spud: DEC 21, 1964 Spud Date Code:
TD: 4500 on
LTD: 4502
PlugBack Depth:
Completed: DEC 29, 1964
Formation @ TD: Name:
Ref. Elevation: 1617 KB
KB. Elevation: 1617
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

Log # 1 IL @ -
Log # 2 AV @ -

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

SEE INSTRUCTIONS ON
OTHER SIDE

FORM 4

Refer to Permit No. 3793

SUNDRY NOTICES AND REPORTS ON WELLS

3781

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 Well	X

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

NAME OF LEASE George Wittman Date December 17 19 75
WELL NO. 1 is located 660 ft. from (N) 1/4 line and 660 ft. from the (E) 1/4 line of
Section 7 Township 161N Range 83W in Bottineau County
Mohall Field Madison Pool. The elevation of the _____ is _____ feet above sea level.

Name and Address of Contractor, or Company which will do work is:

(DETAILS OF WORK)

(State names of, and expected depth of objective sands; show sizes, weight, and lengths of proposed casing, indicate mud weights, cementing points, and all other details of work).

Finished drilling July 14, 1968 to c. 086'. Ran 4 1/2" casing, cemented with 50 bags salt saturated cement, had circulation.
Wire Line logged top of Dakota 2,848'. Perforated 2,866' to 76 with Jts., acidized with 60 bbl. acid. Ran 95 Jts. plastic tubing to 2,849.16' of 2 3/8" tubing.

Company GOFOR OIL INC.
Address P. O. Box 853, Kenmare, ND 58745
By Paul Johnson
Title President

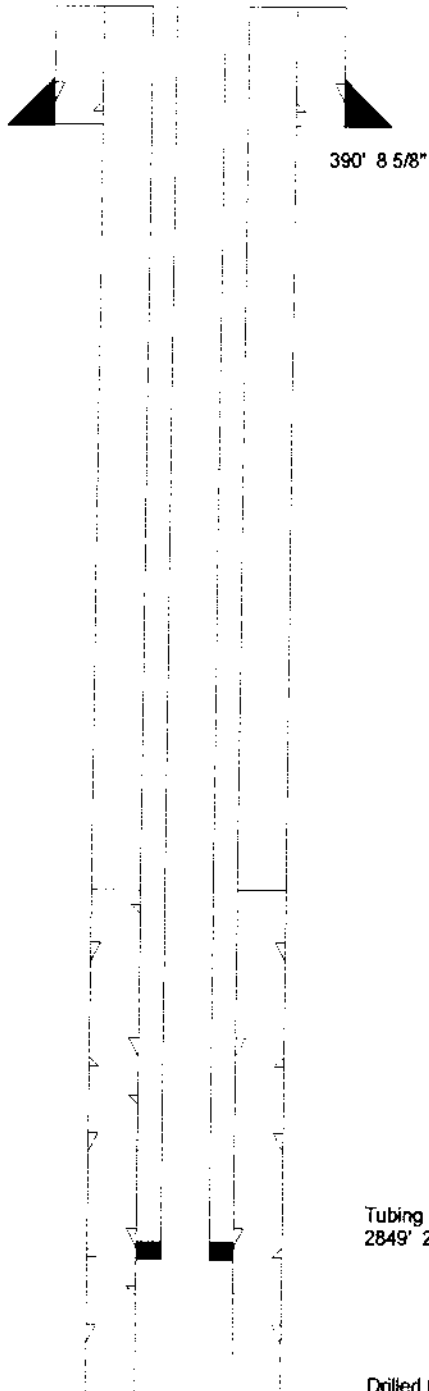
Do not write in this space

Approved FEB 5 1976 19
By F. E. Williams
Title _____

George Witterman #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 - E
 LEASE NAME Brachelsberg-Wilms WELL NO. 1-8 SEC. 8 TWP. 161N RGE. 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 Oklahoma City STATE OK 73154
 DATE WELL WAS PLUGGED October 4 19 82

TOTAL DEPTH 4537'

ELECTRIC OR OTHER LOGS RUN? DLL/MSFL, CYB, LDI/CNL

WAS THIS WELL CORED? NO IF SO, GIVE INTERVALS _____

WAS THE WELL FILLED WITH MUD LADEN FLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRIAL 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 363'-465'; 10 sx in top of surface pipe.

WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS? No
 GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM.

EXECUTED THIS 11 DAY OF October 19 82 Earlsboro Oil & Gas Co., Inc.
 (Company or Operator)
 STATE OF Oklahoma ss Ronald W. Atchley Operations Mgr.
 COUNTY OF Oklahoma (Signature) (Title)

Before me the undersigned authority, on this day personally appeared Ronald W. Atchley 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 19 82

My Commission expires September 24, 1985 Notary Public in and for Oklahoma Co., OK

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 THE FUNDAMENTAL OIL CORPORATION FIELD W.C.
LEASE NAME WILMS WELL NO. 1 SEC. 8 TWP. 161N RGE. 83W
PERMIT NO. 4225 POOL
ELEVATION 1598 (~~Box~~ G.R. ~~KE~~) COUNTY Bottineau
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: THE FUNDAMENTAL OIL CORPORATION
STREET 444-17TH ST., SUITE 726 CITY Denver STATE Colo. 80202
DATE WELL WAS PLUGGED 1-27- 19 67

TOTAL DEPTH 4515

ELECTRIC OR OTHER LOGS RUN? IES - GRS

WAS THIS WELL CORED? yes IF SO, GIVE INTERVALS 4417-29 4429-47

WAS THE WELL FILLED WITH MUD LADEN FLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRIAL 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.

#1 Plug set at	4400'	20 sx.
#2 Plug	4200'	20 sx.
#3 Plug	3800'	20 sx.
#4 Plug	2800'	20 sx.
#5 Plug	350'	20 sx.

5 sx. top of surface 3' below ground & sealed cap on it.



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 13th DAY OF February 19 67 THE FUNDAMENTAL OIL CORPORATION
(Company or Operator)
STATE OF COLORADO)
COUNTY OF DENVER) ss
John Dawson Geologist
(Signature) (Title)

Before me the undersigned authority, on this day personally appeared John Dawson 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 13th day of February 19 67

My Commission expires 1-11-71 Notary Public in and for Denver, Colo.

North Dakota State Industrial Commission
Oil and Gas Division

PERMIT TO 4218

PLUGGING RECORD

(Within 30 days after the plugging of any well has been accomplished, the owner or operator shall file this form with the State Geologist, setting forth in detail the method used in plugging the well.)

OPERATOR Glyde W. Jones-North Star Petro. FIELD Mohall
LEASE NAME Kelly WELL NO. 1 SEC. 7 TWP. 161N RGE. 83W
PERMIT NO. 4218 POOL Madison
ELEVATION 1614' ~~1614'~~ K.B. COUNTY Bottineau
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: North Star Petroleum Company
STREET 460 Northstar Center CITY Minneapolis STATE Minnesota
DATE WELL WAS PLUGGED December 25 19 66

TOTAL DEPTH 4564'

ELECTRIC OR OTHER LOGS RUN? Laterolog-Gamma Ray and Sonic-Caliper

WAS THIS WELL CORED? No IF SO, GIVE INTERVALS

WAS THE WELL FILLED WITH MUD LADEN FLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRIAL COMMISSION? Yes HOW WAS MUD APPLIED? Pump 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

20 sack cement plug at 4460' (top Mohall)

20 sack cement plug at 4240' (top Charles)

20 sack cement plug at 3990' (top Spearfish)

20 sack cement plug at 2850' (top Dakota)

20 sack cement plug at 380' (base surface casing)

5 sack cement plug at surface

WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS? Yes
GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM.

EXECUTED THIS 27 DAY OF December 19 66

Glyde W. Jones

(Company or Operator)

STATE OF North Dakota

COUNTY OF Burleigh ss

(Signature)

Consulting Geologist

(Title)

Before me the undersigned authority, on this day personally appeared Steven H. Harris k
to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath
he is authorized to make this report and has knowledge of the facts stated herein and that said report is true.

Subscribed and sworn to before me his the 27th day of December 19 66

My Commission expires _____ Notary Public in and for _____

LeVERNE MICHELSON

Notary Public, Burleigh Co., N. Dak.

My Commission Expires Mar. 25, 1971.

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:09 AM

#4206

1 LAWRENCE KELLY

State: NORTH DAKOTA
 County: BOTTINEAU
 Operator: JONES CLYDE W
 API: 33009009650000 IC:
 Initial Class: D
 Target Objective:
 Final Well Class: D
 Status: D&A
 Field: MOHALL
 Permit: on SEP 15, 1972
 Abandonment Date:
 Projected TD: 4600 Formation: MADISON
 Hole Direction:

Location

Section, Twp., Range: 7 161 N 83 W
 Spot Code: NE NW
 Footage NS, EW: 660 FNL 1980 FWL CONGRESS SECTION
 Surface remark:
 Principal Meridian: 5TH PRINCIPAL MRD
 Lat/Long: 48.7904500 / -101.4879300 US
 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: 352MSNC Name: MISSION CANYON /ANHY/ PORO/
 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

PI/Dwights PLUS on CD Scout Ticket

Date: 10/9/2001

Time: 11:09 AM

4206

Drilling Journal

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

Formations and Logs

Top Formation	Log # 1 Log # 2	EL AV	@ @	- -	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age code
GREENHORN					2295				LOG		603
DAKOTA					2827				LOG		602
PIPER /LM/ SD/ SH/					3682				LOG		552
SPEARFISH					3971				LOG		469
CHARLES /SALT/					4222				LOG		353
MIDALE /ANHY/					4270				LOG		353
STATE A					4346				LOG		352
MISSION CANYON /ANHY/ PO					4450				LOG		352

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:

(COMPLETE FORM ON REVERSE SIDE)

4189
REFER TO PERMIT 4201

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 GOFOR OIL INC. FIELD Mohall Field
LEASE NAME Gilseth WELL NO. 2 SEC. 5 TWP. 161 RGE. 83
PERMIT NO. 4201 POOL Madison Pool
ELEVATION 1589 ~~XXXXXX~~ K.B.) COUNTY Bottineau
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: GOFOR OIL INC.
STREET Box 853 CITY Kemare 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 INDUSTRIAL COMMISSION? _____ HOW WAS MUD APPLIED? _____ WERE PLUGS USED? _____

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 _____

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 tubing 186' inside of casing. Halliburton pumped 33 bags cement to 1900', pulled tubing up 52 Jts. to 480', pumped 37 bags, put 10 bags 10' from surface about 6' 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.

EXECUTED THIS 17 DAY OF November 19 77 GOFOR OIL INC.
(Company or Operator)

STATE OF North Dakota } ss
COUNTY OF Ward }

Earl Schwartz
(Signature)

President
(Title)

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 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 17 day of November 19 77

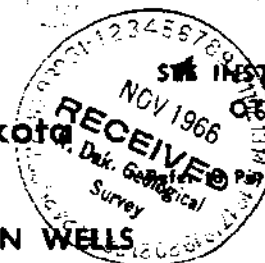
DONNA M. OLSON

Notary Public, Ward County, N.D.

My Commission expires My Commission Expires Dec. 11, 1991 Notary Public in and for _____

Industrial Commission of the State of North Dakota

FORM 4



INSTRUCTIONS ON
OTHER SIDE

Permit No. 4201

SUNDRY NOTICES AND REPORTS ON WELLS

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.
6. Report of Shooting or Acidizing	12.

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

NAME OF LEASE Carl Gilseth Date November 4, 1966 19

WELL NO. 2 is located 531 ft. from (N) 53 line and 1880 ft. from the ENE(W) line of

Section Section 3 Township 161 Range 88 in Bottineau County

Mohall Field Field Canyon Pool. The elevation of the site is 1879 feet above sea level.

Name and Address of Contractor, or Company which will do work is:

Harrell & Harrell, Inc., Williston, North Dakota

(DETAILS OF WORK)

(State names of, and expected depth of objective sands; show sizes, weight, and lengths of proposed casing, indicate mud weights, cementing points, and all other details of work).

Will set approximately 875' of 2 5/8ths inch Surface Casing

Will drill well approximately 4500 feet.

Company COFOR OIL INC.
Address Box 288
Minot, North Dakota
By Vern J. Lund
Title President

Do not write in this space

Approved November 7 19 66
By William A. Williams
Title _____

PL/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:05 AM**2 GILSETH**

State: NORTH DAKOTA
County: BOTTINEAU
Operator: GOFOR OIL CO INC
API: 33009009590000 IC:
Initial Class: D
Target Objective:
Final Well Class: D
Status: D&A
Field: MOHALL
Permit: #4187 on SEP 15, 1972 Abandonment Date:
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:
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
Fluid: 250 GAL ACID Type: A

PI/Dwights PLUS on CD Scout Ticket

4189

Date: 10/9/2001
Time: 11:05 AMAdditive:
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate: 1
Stages: Remarks: @ 2600Treatments: 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 8 5/8 IN @ 360 w/ 275 sx
Casing 4 1/2 IN @ 4421 w/ 150 sx**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: Fax:
E-Mail:
Agent Name: Agent Code:
Agent Remark:

**North Dakota State Industrial Commission
Oil and Gas Division**

WELL COMPLETION REPORT
SEE INSTRUCTIONS OTHER SIDE

#6206



OPERATOR Earl Schwartz Co. FIELD Mohall
 STREET _____ POOL Madison
 CITY Kennmare STATE North Dakota COUNTY Bottineau
 LEASE NAME Carl Gilseth WELL NO. 2-R ACRES IN UNIT 150
 LOCATION N/2 NW/4 SEC 5 TWP 161 RGE 83 ELEVATION 1582 1573 Ground
 PERMIT NO. 6206 ELECTRIC OR OTHER LOGS RUN Cement Bond Log 9/9 19 77
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL 2

DATA ON TEST

DATE TEST COMMENCED 3/1 19 78 HOUR 15 days, 45 bbls. oil has a lot of water
 DATE TEST COMPLETED _____ HOUR _____ MINUTES
 LENGTH OF TEST _____ HOURS _____ MINUTES
 Leak will have to squeeze.
 FOR FLOWING WELL: FOR PUMPING WELL:
 FLOWING PRESSURE ON CSG None LBS./SQ. IN. LENGTH OF STROKE 42 INCHES
 FLOWING PRESSURE ON TBG None LBS./SQ. IN. NUMBER OF STROKES PER MINUTE 7
 SIZE TBG 2 3/8 IN. WORKING BARRELS 1 1/4 (SIZE IN.)
 SIZE CHOKE _____ IN. TYPE CHOKE _____ POS. ADJ. _____
 SHUT IN PRESSURE 25# SIZE TBG 2 3/8 IN. NO. FT. RUN 4378
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICES? _____

RESULT OF THIS TEST (BBL. NET OIL PER 24 HRS.) _____
 GAS-OIL RATIO OF THIS WELL IS 100' per bbl. (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 98%
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 26

NAME OF PIPE LINE OR OTHER CARRIER _____
 IF SHOT: DATE 9/9/77 NO. QTS. USED _____
 IF PERFORATED: NO. HOLES PER FT. * holes per ft ACIDIZED: NO. GALS. USED 1000 Hyd. 15% 300MCA 15
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED 26 FROM 4377 FT. TO 4411 FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Go Wireline
 DATE WELL COMPLETED Nov. 5 19 77 HOUR WELL COMPLETED _____ M.
 TOP OF PAY 4372' to 4411' FT. Well made water. Started 3/1/78, Pumped 15 day:
 45 bbls. oil. Shut in. Will squeeze

TOTAL DEPTH OF WELL 4450 FT.
 PLUG BACK DEPTH 4435 FT.

WAS THIS WELL CORED? Yes WHAT INTERVALS? 4372' - 4411'
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM

CASING RECORD

Size	Put in Well Ft. In.	Left in Well Ft. In.	No Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No Sacks Cement
4 1/2-11.6# 4450'		4450'	340 sks. 8 5/8	4 1/2	444'	444'	285 sks.

EXECUTED THIS 2 DAY OF May 19 78 Earl Schwartz Co.
 (Company or Operator)

STATE OF North Dakota _____
 COUNTY OF Ward _____
 _____ (Signature) _____ Operator (Title)

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 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 this 2 day of May 19 78

My Commission expires _____
 Notary Public in and for _____

PI/Dwights PLUS on CD Scout Ticket

Date: 10/9/2001

Time: 11:05 AM

2R CARL GILSETH

State: NORTH DAKOTA
County: BOTTINEAU
Operator: SCHWARTZ EARL
API: 33009012380000 IC:
Initial Class: D
Target Objective:
Final Well Class: DO
Status: OIL
Field: MOHALL
Permit: 6206 on DEC 15, 1977
Abandonment Date:
Projected TD: 4500 Formation: MADISON
Hole Direction:
IP Summary: Oil Gas Water Top Form
3 BPD MADISON

Location

Section, Twp., Range: 5 161 N 83 W
Spot Code: NW NE NW
Footage NS, EW: 627 FNL 1326 FWL CONGRESS SECTION
Surface remark:
Principal Meridian: 5TH PRINCIPAL MRD
Lat/Long: 48.8048900 / -101.4690200 US
PBHL:
PHBL remark:
ABHL:
ABHL remark:
ABHL: From Surface: TVD:

Dates and Depths

Spud: JUN 29, 1977 Spud Date Code:
TD: 4450 on
LTD:
PlugBack Depth: 4435
Completed: NOV 05, 1977
Formation @ TD: 359MDSN Name: MADISON
Ref. Elevation:
KB. Elevation:
Ground Elevation: 1573 GR
Contractor: CARDINAL DRILLING
Rig Release Date: Rig #

IP # 001

Top Formation: MADISON
Base Formation: MADISON
Oil: 3 BPD Condst:
Gas: Water:
Interval: 4377 - 4411 Method: PUMPING
Duration of Test: Hours Choke:
Oil: Gravity: 26 GOR:
Prod Method: PERF
Perforations: Interval Cnt Type Shots/Ft Top Formation
4377 - 4411 359MDSN MADISON

Treatments: 1 Interval: 4377 - 4411

PI/Dwights PLUS on CD Scout TicketDate: 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: CONV Show Type:
 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:	Sample	Analysis	Primary Top	Sample: WC Base	HPerm	VPerm	Date: JUL 01, 1977	Porosity	Bulk Density	Lab: 007465	Saturation	Location: DLS	Pore Vol	
										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	1	4374	4375	0.06			5.5					13.1	52.5
	4	1	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	1	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

Casing 8 5/8 IN @ 464 w/ 285 sx
 Casing 4 1/2 IN @ 4450 w/ 340 sx
 Tubing 2 3/8 IN @ 4378 TUBING

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: P 3 BOPD 26.0 Grav, 147 BWPD GOR 100:1
 Perfs: 4377-4411 (Madison)
 Perfs: w/4 SPF acid w/1000 gals Hyd 15% 300 MCA
 Cores: 4372- 4411
 Dwights number: R8092060

Operator Address

Street or PO Box:

City:

North Dakota State Industrial Commission Oil and Gas Division

WELL COMPLETION REPORT

OPERATOR GOFOR OIL INC. FIELD MOHALL
 STREET P. O. BOX 296 POOL MISSION CANYON
 CITY MINOT STATE NORTH DAKOTA COUNTY BOTTINEAU
 LEASE NAME CARL GILBERT WELL NO. 1 ACRES IN UNIT 80
 LOCATION SW 1/4 SEC. 5 TWP. 181 RGE. 83 ELEVATION 1609 5411 22 KB.
 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 HOUR 8 AM. DATE TEST COMPLETED 1/15/66 19 HOUR 8 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 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.)

FOR PUMPING WELL:

SHUT IN PRESSURE _____ SIZE TBG. 2 3/8" O.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 (BBL. NET OIL PER 24 HRS.) 35 23
 GAS-OIL RATIO OF THIS WELL IS Estimated 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

NAME OF PIPE LINE OR OTHER CARRIER Portal Pipe Line

IF SHOT: DATE 12/31/65

NO. QTS. USED _____

IF PERFORATED: NO. HOLES PER FT. 3 on 2 perfs IF ACIDIZED: NO. GALS. USED 500

GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED MISSON FROM 4412 FT. TO 4428 FT. 3 Holes:
 SHOOTING, PERFORATING OR TREATING COMPANY Lane Wells, and Dowell 4438 4440 4 Holes:

DATE WELL COMPLETED 1/14/ 1966 19 HOUR WELL COMPLETED 8 AM.

TOP OF PAY 4414 FT.

TOTAL DEPTH OF WELL 4482 FT.
 PLUG BACK DEPTH 4482 FT.

WAS THIS WELL CORED? No WHAT INTERVALS? _____

GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. (None)

CASING RECORD

Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
8 5/8"	344	344	235				
4 1/2	4482	4482	200				

EXECUTED THIS 19th DAY OF January 19 66

GOFOR OIL INC.
 (Company or Operator)

STATE OF NORTH DAKOTA ss
 COUNTY OF WARD

Vern O. Lund PRESIDENT
 (Signature) Vern O. Lund (Title)

Before me the undersigned authority, on this day personally appeared VERN O. LUND 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 this 19th day of JANUARY 19 66

My Commission expires October 16, 1969

Notary Public in and for Ward County

1 CARL GILSETH

State: NORTH DAKOTA
County: BOTTINEAU
Operator: GOFOR OIL CO INC
API: 33009009230000 IC:
Initial Class: D
Target Objective:
Final Well Class: DO
Status: OIL
Field: MOHALL
Permit: 4026 on SEP 15, 1972
Projected TD: 4500 Formation: MADISON
Hole Direction:
IP Summary: Oil Gas Water Top Form
35 BPD 35 BBL MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range: 5 161 N 83 W
Spot Code: SW SW
Footage NS, EW: 660 FSL 660 FWL CONGRESS SECTION
Surface remark:
Principal Meridian: 5TH PRINCIPAL MRD
Lat/Long: 48.7940300 / -101.4717600 US
PBHL:
PHBL remark:
ABHL:
ABHL remark:
ABHL: From Surface: TVD:

Dates and Depths

Spud: DEC 16, 1965 Spud Date Code:
TD: 4482 on
LTD:
PlugBack Depth:
Completed: JAN 15, 1966
Formation @ TD: 353FRBR Name: FROBISHER
Ref. Elevation: 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: MISSION CANYON /ANHY/ PORO/
Oil: 35 BPD Condst:
Gas: Water: 35 BBL
Interval: 4415 - 4440 GROSS Method: PUMPING
Duration of Test: 24 Hours Choke:
Oil: Gravity: 28 GOR: 200
Prod Method: PERF
Perforations: Interval Cnt Type Shots/Ft Top Formation
4415 - 4416 JET 3 FT 352MSNC MISSION CANYON /ANHY/ PORO/
4418 - 4420 JET 3 FT 352MSNC MISSION CANYON /ANHY/ PORO/
4438 - 4440 JET 4 FT 352MSNC MISSION CANYON /ANHY/ PORO/

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:05 AM

Treatments: I Interval: 4415 - 4440
 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

Formations and Logs

Top Formation	Log # 1 AV @ -	Log # 2 EL @ -	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith-ology	Age code
GREENHORN			2257				LOG		603
MOWRY			2545				LOG		602
FALL RIVER			2787				LOG		602
JURASSIC /SYSTEM/			3130				LOG		559
SPEARFISH			3988				LOG		469
MADISON			4175				LOG		359
FROBISHER			4282				LOG		353

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: P 35 BOPD 28.0 Grav, 35 BWPD GOR 200:1
 Perfs: 4415-4416 (Madison)
 Perfs: /3;
 Perfs: 4418-4420 (Madison)
 Perfs: /3;
 Perfs: 4438-4440 (Madison)
 Perfs: /4; Acidized overall;
 Dst: None
 Cores: None
 Dwights number: R8070140

Operator Address

Street or PO Box:

City:
 State, Zip: ,
 Country:
 Phone: Fax:
 E-Mail:
 Agent Name: Agent Code:
 Agent Remark:

WELL COMPLETION REPORT
SEE INSTRUCTIONS OTHER SIDE

#3890

OPERATOR Quintana Petroleum Corporation FIELD Mohall
 STREET 500 Jefferson Bldg. POOL Mission Canyon
 CITY Houston 2 STATE Texas COUNTY Harris
 LEASE NAME Carl O. Gilserh WELL NO. 1 ACRES IN UNIT 80
 LOCATION SW, NW SEC 5 TWP 161 N RGE 83 W ELEVATION 1607 ~~EXPOS~~ KB
 PERMIT NO. 3902 ELECTRIC OR OTHER LOGS RUN IES, Sonic-GR 6/9 1965
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL 1

DATA ON TEST

DATE TEST COMMENCED 7/2 1965 HOUR 7 A.M. DATE TEST COMPLETED 7/3 1965 HOUR 7 A.M.
 LENGTH OF TEST 24 HOURS - MINUTES

FOR FLOWING WELL:

FLOWING PRESSURE ON CSG - LBS. SQ. IN. LENGTH OF STROKE 64 INCHES
 FLOWING PRESSURE ON TBG - LBS. SQ. IN. NUMBER OF STROKES PER MINUTE 15
 SIZE TBG - IN. WORKING BARRELS 1-3/4 SIZE IN.
 SIZE CHOKE - IN. TYPE CHOKE POS. ADJ.
 SHUT IN PRESSURE - SIZE TBG 2-3/8 IN. NO. FT. RUN 4424
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR
 OTHER ARTIFICIAL DEVICES? No

FOR PUMPING WELL:

RESULT OF THIS TEST (BBL. NET OIL PER 24 HRS.) 20
 GAS-OIL RATIO OF THIS WELL IS 357/1 (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 80
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° API) 28.10

NAME OF PIPE LINE OR OTHER CARRIER Portal Pipeline
 IF SHOT: DATE N/A NO. QTS. USED -
 IF PERFORATED: NO. HOLES PER FT. 2 IF ACIDIZED: NO. GALS. USED 2500
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Mission Canyon FROM 4412 FT. TO 4422 FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Lane-Wells; Dowell
 DATE WELL COMPLETED 6/27 1965 HOUR WELL COMPLETED 12:30 P.M.
 TOP OF PAY 4412 FT.

TOTAL DEPTH OF WELL 4431 FT.
 PLUG BACK DEPTH 4425 FT.

WAS THIS WELL CORED? Yes WHAT INTERVALS? 4392' - 4427'
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM.

CASING RECORD

Size	Put in Well Ft.	In.	Left in Well Ft.	In.	No. Sacks Cement	Size	Put in Well Ft.	In.	Left in Well Ft.	In.	No. Sacks Cement
8-5/8"	322	7	322	7	135						
4-1/2"	4427	5	4427	5	100						
2-3/8"	4424		4424								

EXECUTED THIS 13th DAY OF July 19 65 Quintana Petroleum Corporation
 (Company or Operator)

STATE OF Texas
 COUNTY OF Harris

John B. Brock Supt.
 (Signature) (Title)

Before me the undersigned authority, on this day personally appeared John B. Brock 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 this the 13th day of July 19 65

My Commission expires 6-1-67 Notary Public in and for Harris County, Texas

1 CARL O GILSETH ETUX

State: NORTH DAKOTA
County: BOTTINEAU
Operator: QUINTANA PET CORP
API: 33009008930000 IC:
Initial Class: D
Target Objective:
Final Well Class: DO
Status: OIL
Field: MOHALL
Permit: 3902 on SEP 15, 1972
#3890 Abandonment Date:
Projected TD: 4450 Formation: MADISON
Hole Direction:
IP Summary: Oil Gas Water Top Form
20 BPD 16 BBL MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range: 5 161 N 83 W
Spot Code: SW NW
Footage NS, EW: 1980 FNL 660 FWL CONGRESS SECTION
Surface remark:
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 Spud Date Code:
TD: 4427 on
LTD: 4434
PlugBack Depth: 4425
Completed: JUL 03, 1965
Formation @ TD: 352MSNC Name: MISSION CANYON /ANHY/ PORO/
Ref. Elevation: 1607 KB
KB. Elevation: 1607
Ground Elevation: 1598 GR
Contractor: CARDINAL DRILLING
Rig Release Date: Rig #

IP # 001

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil: 20 BPD Condst:
Gas: Water: 16 BBL
Interval: 4412 - 4422 Method: PUMPING
Duration of Test: Hours Choke:
Oil: Gravity: 28.1 GOR: 357
Prod Method: PERF
Perforations: Interval Cnt Type Shots/Ft Top Formation
4412 - 4422 2 FT 352MSNC MISSION CANYON /ANHY/ PORO/

Treatments: 1 Interval: 4412 - 4422

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:05 AM

Fluid: 2500 GAL ACID Type: A
 Additive:
 Prop Agent:
 Formation Break Down Pressure:
 Average Injection Rate:
 Stages: Remarks:
 PLUS 80% WTR

Remarks on IP Test # 001

DST # 001

Show: S Formation: MISSION CANYON /ANHY/ PORO/
 Interval: 4388 - 4427 BHT
 Choke: Top: Bottom:
 Recovery: 1 92 FT SO&GCM Rec Method: PIPE
 Recovery: 2 310 FT O Rec Method: PIPE
 Recovery: 3 561 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
				50	450	1862	1660		60	60	60

Core Id: 001

Formation: 352MSNC MISSION CANYON /ANHY/ PORO/
 Interval: 4396 - 4431 Rec: 35 FT
 Core Type: CONV Show Type: OSTN
 Description: 2 SS, FG, ANGULAR, DOLO, TIGHT, NO SHOW
 1 DOLO, LIGHT BUFF, TIGHT, NO SHOW
 1 ANHY, FINE CRYST, CLEAR, DOLO INCLUSIONS, NO SHOW
 3 ANHY, WHITE TO GREY
 1 DOLO, BUFF, FINE CRYST, FEW SPECKS DARK BROWN STAIN
 FAIR ODOR
 1 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
 1 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
 1 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

PI/Dwights PLUS on CD Scout Ticket

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 CRYST, SILTY, POOR-FAIR PPP, NO
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

Top Formation	Log #	IL	@	322 - 4433	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lithology	Age code
	Log # 2	AV	@	3300 - 4430							
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:

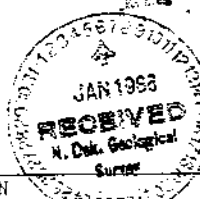
Agent Remark:

Fax:

Agent Code:

My Commission expires October 16, 1962 Notary Public in and for Ward County

North Dakota State Industrial Commission
Oil and Gas Division
 (TEMPORARY)
WELL COMPLETION REPORT



15
3996

OPERATOR GOFOR OIL INC. FIELD MOHALL
 STREET 201 Sullivan Bldg. POOL MISSION CANYON
 CITY MINOT STATE NORTH DAKOTA COUNTY BOTTINEAU
 LEASE NAME GEORGE SMURSON, ET AL WELL NO. 1 ACRES IN UNIT 80
 LOCATION SW/4 of SE/4 SEC. 8 TWP. 151N RGE. 83W ELEVATION 1626 # 1515 KB.)
 of 4 Section Sonic Log
 PERMIT NO. 4008 ELECTRIC OR OTHER LOGS RUN: Induction Log 12/13/65 19
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL 2

DATA ON TEST

DATE TEST COMMENCED 12/23/65 19 65 HOUR 12 M. DATE TEST COMPLETED 12/30/65 19 65 HOUR 12 M.
 LENGTH OF TEST 7 days (Swabbing) HOURS 7 MINUTES 00

FOR FLOWING WELL:

FLOWING PRESSURE ON CSG. LBS./SQ. IN. LENGTH OF STROKE INCHES
 FLOWING PRESSURE ON TBG. LBS./SQ. IN. NUMBER OF STROKES PER MINUTE
 SIZE TBG. 2" IN. WORKING BARRELS (SIZE IN.)
 SIZE CHOKE 3/4 IN. TYPE CHOKE REG. ADJ.

FOR PUMPING WELL:

SHUT IN PRESSURE SIZE TBG. 2" IN. NO. FT. RUN 4420
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR
 OTHER ARTIFICIAL DEVICE? No

RESULT OF THIS TEST (BBL. NET OIL PER 24 HRS.) Swabbed 100 Bbls in 7 Hrs. 12/28/65
 GAS-OIL RATIO OF THIS WELL IS TSTM (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 5
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 28

NAME OF PIPE LINE OR OTHER CARRIER No U. S. Crude Oil Purchasing Co.
 IF SHOT: DATE 12/21/65 NO. QTS. USED Acid washed Perfs with
 IF PERFORATED: NO. HOLES PER FT. 3 on 2 Perfs IF ACIDIZED: NO. GALS. USED 120 gal. 7 1/2% acid
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Mission Canyon FROM 4422 FT. TO 4428 FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Lane Wells Co. TO 4427 FT.
 DATE WELL COMPLETED 12/30/65 19 65 HOUR WELL COMPLETED 5 P.M. M.
 TOP OF PAY FT.

TOTAL DEPTH OF WELL 4490 FT.
 PLUG BACK DEPTH 4460 = FT.

WAS THIS WELL CORED? No WHAT INTERVALS?
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM None

CASING RECORD

Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
<u>4 1/2</u>	<u>4490</u>	<u>4490</u>	<u>200</u>				

EXECUTED THIS 5th DAY OF JANUARY 19 66 GOFOR OIL INC.
 (Company or Operator)
 STATE OF NORTH DAKOTA
 COUNTY OF WARD
 (Signature) James E. Kankel (Title) Secy-Treas

Before me the undersigned authority, on this day personally appeared James E. Kankel 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 this 5th day of January 19 66

 My Commission expires Notary Public in and for Ward County

1 GEORGE SHURSON ETAL

State: NORTH DAKOTA
County: BOTTINEAU
Operator: GOFOR OIL CO INC
API: 33009009190000 IC:
Initial Class: D
Target Objective:
Final Well Class: DO
Status: OIL
Field: MOHALL
Permit: 4008 on SEP 15, 1972
Projected TD: # 3996 4500 Formation: MADISON Abandonment Date:
Hole Direction:
IP Summary: Oil Gas Water Top Form
100 BPD 2 BBL MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range: 6 161 N 83 W
Spot Code: SW SE
Footage NS, EW: 660 FSL 1980 FEL CONGRESS SECTION
Surface remark:
Principal Meridian: 5TH PRINCIPAL MRD
Lat/Long: 48.7940600 / -101.4827100 US
PBHL:
PHBL remark:
ABHL:
ABHL remark:
ABHL: From Surface: TVD:

Dates and Depths

Spud: NOV 28, 1965 Spud Date Code:
TD: 4490 on
LTD:
PlugBack Depth: 4460
Completed: JAN 15, 1966
Formation @ TD: 359MDSN Name: MADISON
Ref. Elevation: 1626 KB
KB. Elevation: 1626
Ground Elevation: 1614 GR
Contractor: CIRCLE A DRILLING INCORPORATED
Rig Release Date: Rig #

IP # 001

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil: 100 BPD Condst:
Gas: Water: 2 BBL
Interval: 4422 - 4427 GROSS Method: PUMPING
Duration of Test: 24 Hours Choke:
Oil: Gravity: 28 GOR: 150
Prod Method: PERF
Perforations: Interval Cnt Type Shots/Ft Top Formation
4422 - 4423 JET 3 FT 352MSNC MISSION CANYON /ANHY/ POR
4424 - 4425 JET 3 FT 352MSNC MISSION CANYON /ANHY/ POR
4426 - 4427 JET 2 FT 352MSNC MISSION CANYON /ANHY/ POR

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:07 AM

3996

Treatments: 1 Interval: 4422 - 4427
Fluid: 120 GAL ACID Type: A
Additive:
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate:
Stages: Remarks:

Casing, Liner, Tubing

Casing 8 5/8 IN @ 349 w/ 175 sx
Casing 4 1/2 IN @ 4490 w/ 200 sx
Tubing 2 3/8 IN @ 4432 TUBING

Formations and Logs

Log # 1	AV	@	-					
Log # 2	IL	@	-					
Top Formation	Measured	Top	Base	Base	Source	Lith-	Age	
	Depth	TVD	Depth	TVD		ology	code	
GREENHORN	2293				LOG		603	
MOWRY	2578				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: Fax:
E-Mail:
Agent Name: Agent Code:
Agent Remark:

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

OPERATOR Quintana Petroleum Corporation FIELD Mohall
 STREET 500 Jefferson Bldg. POOL Mission Canyon
 CITY Houston, Texas STATE Texas COUNTY Harris
 LEASE NAME Sam Simpson et al. WELL NO. 2 ACRES IN UNIT 80
 LOCATION NE NE SEC. 6 TWP 161 N RGE 83 W ELEVATION 1602 (FEET KB.)
 1/4 of 1/4 Section
 PERMIT NO. 3887 ELECTRIC OR OTHER LOGS RUN? LES. G.R.-Son. 5-19 19 65
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE INCLUDING THIS WELL 2

DATA ON TEST

DATE TEST COMMENCED 6-8 1965 HOUR 8 AM DATE TEST COMPLETED 6-9 1965 HOUR 8 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 TBG. LBS./SQ. IN. NUMBER OF STROKES PER MINUTE 15
 SIZE TBG. IN. WORKING BARRELS 1-3/4 (SIZE IN.)
 SIZE CHOKE IN. TYPE CHOKE (POS. ADJ.)

FOR PUMPING WELL:

SHUT IN PRESSURE SIZE TBG 2 IN. NO. FT. RUN 4409
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR
 OTHER ARTIFICIAL DEVICE?

RESULT OF THIS TEST (BBLs. NET OIL PER 24 HRS.) 202
 GAS-OIL RATIO OF THIS WELL IS 255/1 (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 5%
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 26.8°

NAME OF PIPE LINE OR OTHER CARRIER United States Crude Oil Purchasing Co.; Portal Pipe Line
 IF SHOT: DATE NO. QTS. USED
 IF PERFORATED: NO. HOLES PER FT. 4 IF ACIDIZED: NO. GALS. USED 1000
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Mission Canyon FROM 4390 FT. TO 4407 FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Lane Wells & Dowell
 DATE WELL COMPLETED 6-7 1965 HOUR WELL COMPLETED 3:00 P.M.
 TOP OF PAY 4390 FT.

TOTAL DEPTH OF WELL 4413 FT.
 PLUG BACK DEPTH 4411 FT.

WAS THIS WELL CORED? Yes WHAT INTERVALS? 4379-4413
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM.

CASING RECORD

Size	Put in Well Ft.	In.	Left in Well Ft.	In.	No. Sacks Cement	Size	Put in Well Ft.	In.	Left in Well Ft.	In.	No. Sacks Cement
8-5/8	319	6	319	6	160						
4-1/2	4413	0	4413	0	100						

EXECUTED THIS 14 DAY OF June 19 65 Quintana Petroleum Corporation
 (Company or Operator)

STATE OF TexasCOUNTY OF Harris

(Signature)

(Title)

Before me the undersigned authority, on this day personally appeared John B. Brock 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 this 14th day of June 19 65

My Commission expires 6-1-67Notary Public in and for Harris County, Texas

2 SAM SIMPSON ETAL

State: NORTH DAKOTA
County: BOTTINEAU
Operator: QUINTANA PET CORP
API: 33009008860000 IC:
Initial Class: D
Target Objective:
Final Well Class: DO
Status: OIL
Field: MOHALL
Permit: 3887 on SEP 15, 1972
3875 Abandonment Date:
Projected TD: 4450 Formation: MADISON
Hole Direction:
IP Summary: Oil Gas Water Top Form
87 BPD MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range: 6 161 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: 48.8048000 / -101.4772600 US
PBHL:
PHBL remark:
ABHL:
ABHL remark:
ABHL: From Surface: TVD:

Dates and Depths

Spud: MAY 06, 1965 Spud Date Code:
TD: 4413 on
LTD: 4415
PlugBack Depth: 4411
Completed: JUN 07, 1965
Formation @ TD: 359MDSN Name: MADISON
Ref. Elevation: 1602 KB
KB. Elevation: 1602
Ground Elevation: 1593 GR
Contractor: CARDINAL DRILLING
Rig Release Date: Rig #

IP # 001

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil: 87 BPD
Gas:
Interval: 4390 - 4407
Duration of Test: 24 Hours
Oil: Gravity: 26.8
Prod Method: PERF
Perforations: Interval Cnt Type Shots/Ft Top Formation
4390 - 4407 4 FT 352MSNC MISSION CANYON /ANHY/ PORO/
Condst:
Water:
Method: PUMPING
Choke:
GOR: 255

Treatments: 1 Interval: 4390 - 4407

#3875

Fluid: 1000 GAL ACID Type: A
 Additive:
 Prop Agent:
 Formation Break Down Pressure:
 Average Injection Rate:
 Stages: Remarks:

DST # 001

Show: S Formation: MADISON
 Interval: 4375 - 4400 BHT
 Choke: Top: Bottom:
 Recovery: 1 1810 FT GCO Rec Method: PIPE
 Recovery: 2 10 FT XW Rec Method: PIPE
 Mat'ls to Surface: GAS 14
 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
2392	2379			162	626	1926	1824		120	60	100

 Dst Test Remark: IMMED STRONG BLOW

Core Id: 001

Formation: 352MSNC MISSION CANYON /ANHY/ PORO/
 Interval: 4379 - 4401 Rec: 18 FT
 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

#3875

Core Id: 002

Formation: 352MSNC MISSION CANYON /ANHY/ PORO/
Interval: 4401 - 4413 Rec: 11.5 FT
Core Type: CONV Show Type: OIL
Description: INTERVAL IS 4400 1/2-4413
1/2 LS, WHITE, FINELY CRYSTALS, 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
1 LS, WHITE, FINELY CRYSTALS, 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 CRYSTALS, 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 CRYSTALS, GHOST
PELLETOID TEXTURE
1 DOLO, TAN, FINELY CRYSTALS, TIGHT, EXCEPT STREAKS ARE
SUCROSIC, FAIR IXLN PORO, EVENLY STAINED
1 LS, TAN, FINELY CRYSTALS TO MARLY, INTERMIXED W/ANHY
WHITE, FINELY CRYSTALS, 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. #	Interval	Type	Form		Sample
Show	1		4375 - 4400	O&G	359MDSN - 359MDSN		
Show	2		4379 - 4401	OIL	352MSNC - 352MSNC		
Show	3		4401 - 4413	OIL	352MSNC - 352MSNC		
Porosity Zones	ID	Top	Base	Type	Quality	Form code	Thickness
	1	4384	4385	VUG	P	352MSNC	
	2	4386	4388	IGRN	G	352MSNC	
	3	4389	4390	VUG	G	352MSNC	
	4	4392	4397	VUG	G	352MSNC	
	5	4400	4402	VUG	F	352MSNC	
	6	4402	4402	INST	G	352MSNC	

Formations and Logs

Formations and Logs

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

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age 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:

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

3-766
OPERATOR Quintana Petroleum Corporation FIELD Mohall
STREET 500 Jefferson Bldg. POOL Mission Canyon
CITY Houston STATE Texas COUNTY Harris
LEASE NAME Sam Simpson WELL NO. 1 ACRES IN UNIT 80
LOCATION NE 1/4, SE 1/4 SEC. 6 TWP. 161 N RGE. 83 W ELEVATION 1614' (DT, ST, KB.)
PERMIT NO. 3769 ELECTRIC OR OTHER LOGS RUN? IES; GR-Sonic 12/14 19 64
NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE INCLUDING THIS WELL 1

DATA ON TEST

DATE TEST COMMENCED 12/23 1964 HOUR 9AM DATE TEST COMPLETED 12/23 1964 HOUR 1 PM
LENGTH OF TEST 4 HOURS - MINUTES

FOR FLOWING WELL:

FOR PUMPING WELL:

FLOWING PRESSURE ON CSG - LBS./SQ. IN. LENGTH OF STROKE - INCHES
FLOWING PRESSURE ON TBG - LBS./SQ. IN. NUMBER OF STROKES PER MINUTE -
SIZE TBG - IN. WORKING BARRELS - (SIZE IN.)
SIZE CHOKE - IN. TYPE CHOKE (POSADJ.)
SHUT IN PRESSURE - SIZE TBG - IN. NO. FT. RUN -
WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICE? -

32
RESULT OF THIS TEST (BBL. NET OIL PER 24 HRS.) Swabbed at the rate of 190 BOPD
GAS-OIL RATIO OF THIS WELL IS Unknown (CU. FT. OF GAS PER BBL. OF OIL)
PERCENT WATER PRODUCED DURING THIS TEST 6 - 10%
GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 28.2°

NAME OF PIPE LINE OR OTHER CARRIER Portal Pipeline
IF SHOT: DATE - NO. QTS. USED -
IF PERFORATED: NO. HOLES PER FT. 4 jets IF ACIDIZED: NO. GALS. USED 1,000
GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Mission Canyon FROM 4421 FT. TO 4433 FT.
SHOOTING, PERFORATING OR TREATING COMPANY Lane-Wells; Dowell, Inc.
DATE WELL COMPLETED 12/26 19 64 HOUR WELL COMPLETED 5:30 P.M.
TOP OF PAY 4421 FT.

TOTAL DEPTH OF WELL 4520 FT.
PLUG BACK DEPTH 4484 FT.

WAS THIS WELL CORED? Yes WHAT INTERVALS? 4413' - 4440'
GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM.

CASING RECORD

Size	Put in Well Ft.	In.	Left in Well Ft.	In.	No. Sacks Cement	Size	Put in Well Ft.	In.	Left in Well Ft.	In.	No. Sacks Cement
8-5/8"	370	0	370	0	210						
4-1/2"	4519	0	4519	0	200						

EXECUTED THIS 29th DAY OF December 19 64 Quintana Petroleum Corporation
(Company or Operator)

STATE OF Texas
COUNTY OF Harris

John B. Brock 5:30 P.M.
(Signature) (Title)

Before me the undersigned authority, on this day personally appeared John B. Brock 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 this the 29th day of December 19 64

My Commission expires June 1, 1965 Notary Public in and for Harris County, Tex.

PI/Dwights PLUS on CD Scout Ticket

Date: 10/9/2001

Time: 11:06 AM

1 SIMPSON

State: NORTH DAKOTA
 County: BOTTINEAU
 Operator: QUINTANA PET CORP
 API: 33009008480000 IC:
 Initial Class: D
 Target Objective:
 Final Well Class: DO
 Status: OIL
 Field: MOHALL
 Permit: 3769 on SEP 15, 1972
 #3757 Abandonment Date:
 Projected TD: 4600 Formation: MADISON
 Hole Direction:
 IP Summary: Oil Gas Water Top Form
 112 BPD 12 BBL MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range: 6 161 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:
 TD: 4520 on
 LTD: 4519
 PlugBack Depth: 4484
 Completed: JAN 17, 1965
 Formation @ TD: 352MSNC Name: MISSION CANYON /ANHY/ PORO/
 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/
 Base Formation: MISSION CANYON /ANHY/ PORO/
 Oil: 112 BPD Condst:
 Gas: Water: 12 BBL
 Interval: 4421 - 4434 GROSS Method: PUMPING
 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/ PORO/
 4427 - 4434 4 FT 352MSNC MISSION CANYON /ANHY/ PORO/

PI/Dwights PLUS on CD Scout Ticket

#3757

Date: 10/9/2001

Time: 11:06 AM

Treatments: 1 Interval: 4421 - 4434
 Fluid: 1000 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: 4408 - 4440 BHT
 Choke: Top: Bottom:
 Recovery: 1 2162 FT GCO Rec Method: PIPE
 Recovery: 2 120 FT XW Rec Method: PIPE
 Mat'ls to Surface: GAS 19
 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
2375	2350			206	888	1987	1845		240	60	60

Core Id: 001

Formation: 352MSNC MISSION CANYON /ANHY/ PORO/
 Interval: 4413 - 4440 Rec: 26 FT
 Core Type: CONV Show Type: OSTN
 Description: 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 CRYST, SPOTTY GOOD PORO, GOOD OSTN
 3 LM, PELLETOIDAL, POOR-GOOD PORO, GOOD OSTN

Casing, Liner, Tubing

Casing 8 5/8 IN @ 370 w/ 210 sx
 Casing 4 1/2 IN @ 4519 w/ 200 sx
 Tubing 2 3/8 IN @ 4478 TUBING

Drilling Journal

	Obs. #	Interval	Type	Form	Sample
Show	2	4408 - 4440	O&G	352MSNC - 352MSNC	W
Show	1	4413 - 4440	OSTN	352MSNC - 352MSNC	
Porosity Zones	ID	Top -	Base Type	Quality	Form code Thickness
	1	4413 -	4440 INST	G	352MSNC
Wellsite Geologist	1	JOHN DYER			

Formations and Logs

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lithology	Age 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

PI/Dwights PLUS on CD Scout Ticket

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

3757

Dwights Energydata Narrative

Accumulated through 1997

IP: 112 BOPD 28.2 Grav, 12 BWPD
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,
Cores: pell, gd to excl por, gd oil stn; 3' dolo, f-xln, spty 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:

FORM 7

Well File # 11054

North Dakota Industrial Commission
Oil and Gas Division
900 East Blvd., Bismarck, North Dakota 58102



PLUGGING RECORD

OPERATOR Gofor Oil, Inc. FIELD Mohall - Dev POOL Madison
LEASE NAME Brendell WELL NO. #1 SEC. 1 TWP. 161 RGE. 84
COUNTY Benville TOTAL DEPTH 4512' ELEV. 1611' KB (DF, G+KB)
DATE PLUGGED 8/8/84, 1984, DIRECT CORRESPONDENCE TO: Earl Schwartz
STREET Box 853 CITY Kenmare STATE North Dakota
ELECTRIC OR OTHER LOGS RUN? Dual Laterolog NO. OF DSTS RUN 0 (see back)
WAS WELL CORED? Yes INTERVALS CORED 4492'-4512'
WAS THE WELL FILLED WITH MUD LADEN FLUID? Yes MUD WEIGHT 10.1 #/GAL.

WELL RECORD

CASING				PLUGS	CEMENT	
SIZE	DEPTH SET	WEIGHT #/FT	AMOUNT PULLED	TYPE & DEPTH	NO. SACKS	INTERVAL
8 5/8"	454'	24#	0	Rdy Mix/Surface	10	
				Rdy Mix/ 492'	50	
				Rdy Mix/2000'	35	
				Rdy Mix/2810'	35	
				Rdy Mix/3995'	35	
				Rdy Mix/4265'	35	

REMARKS:

WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS: NoExecuted this 19th day of December, 19 84.Gofor Oil, Inc.

(Company or Operator)

STATE OF North DakotaCOUNTY OF Ward(Signature)
Dan L. Schwartz(Title)
Geologist

Before me the undersigned authority, on this day personally appeared Dan L. Schwartz 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 this the 20 day of Dec, 19 84.My Commission expires Dec 5 1985 Notary Public in and for County of Ward.

PI/Dwights PLUS on CD Scout TicketDate: 9/27/2002
Time: 11:02 AM**1 BRENDDEL**

State: NORTH DAKOTA
County: RENVILLE
Operator: GOFOR OIL CO INC
API: 33075010180000 IC:
Initial Class: D
Target Objective: OIL
Final Well Class: D
Status: D&A
Field: MOHALL
Permit: 11054 on JUL 20, 1984
Abandonment Date:
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 US
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 # 1

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 @ -

PI/Dwights PLUS on CD Scout Ticket

Date: 9/27/2002

Time: 11:02 AM

Formations and Logs

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age code
DAKOTA	2811				LOG		602
PIPER /LM/ SD/ SH/	3735				LOG		552
SPEARFISH	4015				LOG		469
CHARLES /SAI.T/	4301				LOG		353

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;,,,,;

RECEIVED
NOV - 9 1964

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

OPERATOR Quintana Petroleum Corporation FIELD Mohall 5-742-A
 STREET 500 Jefferson Bldg. POOL Mission Canyon
 CITY Houston 2 STATE Texas COUNTY Harris
 LEASE NAME Rhoda Racke et al WELL NO. 1 ACRES IN UNIT 80
 LOCATION SW NE SEC 6 TWP 161 N RGE 83 W ELEVATION 1618 (DET. OF KB.)
 PERMIT NO. 3726 ELECTRIC OR OTHER LOGS RUN? IES, GR-S 10/26 19 64
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL 1

DATA ON TEST

DATE TEST COMMENCED 10/29 1964 HOUR 5 PM DATE TEST COMPLETED 10/30 1964 HOUR 7 A.M.
 LENGTH OF TEST 14 HOURS 0 MINUTES

FOR FLOWING WELL:

FOR PUMPING WELL:

FLOWING PRESSURE ON CSG 225 LBS./SQ. IN. LENGTH OF STROKE - INCHES
 FLOWING PRESSURE ON TBG 50 LBS./SQ. IN. NUMBER OF STROKES PER MINUTE -
 SIZE TBG 2-3/8 IN. WORKING BARRELS - (SIZE IN.)
 SIZE CHOKE 24/64 IN. TYPE CHOKE Adj. (POS. ADJ.)
 SHUT IN PRESSURE 400#/in² SIZE TBG 2-3/8 IN. NO. FT. RUN 4465
 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 (BBL. NET OIL PER 24 HRS.) 292
 GAS-OIL RATIO OF THIS WELL IS Not Available (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 5%
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 28.2°

NAME OF PIPE LINE OR OTHER CARRIER USCOR; Portal Pipe Line
 IF SHOT: DATE - NO. QTS. USED -
 IF PERFORATED: NO. HOLES PER FT. 4 IF ACIDIZED: NO. GALS. USED 800
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Canyon FROM 4410 FT. TO 4429 FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Lane-Wells
 DATE WELL COMPLETED 11/2 1964 HOUR WELL COMPLETED 7 A.M.
 TOP OF PAY 4410 FT.

TOTAL DEPTH OF WELL 4520 FT.
 PLUG BACK DEPTH 4478 FT.

WAS THIS WELL CORED? Yes WHAT INTERVALS? 4402-4449'
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM

CASING RECORD

Size	Put in Well Ft.	In.	Left in Well Ft.	In.	No. Sacks Cement	Size	Put in Well Ft.	In.	Left in Well Ft.	In.	No. Sacks Cement
8-5/8"	333'	6"	333'	6"	150	1					
4-1/2"	4518'	10"	4518'	10"	200						

EXECUTED THIS 4th DAY OF November 19 64 Quintana Petroleum Corporation
 (Company or Operator)

STATE OF Texas
 COUNTY OF Harris

John B. Brock
 (Signature)

Supt.
 (Title)

Before me the undersigned authority, on this day personally appeared John B. Brock 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 this the 4th day of November 19 64

My Commission expires June 1, 1965 Notary Public in and for Harris County, Texas

PI/Dwights PLUS on CD Scout Ticket

Date: 10/9/2001

Time: 11:06 AM

1 RACKE ETAL

State: NORTH DAKOTA
County: BOTTINEAU
Operator: QUINTANA PET CORP
API: 33009008350000 IC:
Initial Class: WO
Target Objective:
Final Well Class: WOE
Status: OIL
Field: MOHALL
Permit: 3726 on SEP 15, 1972
3714 Abandonment Date:
Projected TD: 4600 Formation: MADISON
Hole Direction:
IP Summary: Oil Gas Water Top Form
313 BPD MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range: 6 161 N 83 W
Spot Code: C SW NE
Footage NS, EW: 1980 FNL 1980 FEL CONGRESS SECTION
Surface remark:
Principal Meridian: 5TH PRINCIPAL MRD
Lat/Long: 48.8012300 / -101.4827300 US
PBHL:
PHBL remark:
ABHL:
ABHL remark:
ABHL: From Surface: TVD:
Location Narrative: Type Remark
SCALED_FOOT REGULATORY
IRREG_SECT N

Dates and Depths

Spud: OCT 12, 1964 Spud Date Code:
TD: 4519 on
LTD:
PlugBack Depth:
Completed: OCT 29, 1964
Formation @ TD: 359MDSN Name: MADISON
Ref. Elevation: 1618 KB
KB. Elevation: 1618
Ground Elevation: 1608 GR
Contractor: CALVERT DRILLING COMPANY
Rig Release Date: Rig #

IP # 001

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil: 313 BPD Condst:
Gas: Water:
Interval: 4410 - 4429 GROSS Method: FLOWING
Duration of Test: 14 Hours Choke: 24/64
Oil: Gravity: 28 GOR:
Prod Method: PERF
Pressures: FTP: 50 SITP:

PI/Dwights PLUS on CD Scout Ticket

Date: 10/9/2001

Time: 11:06 AM

3714

Perforations:	FCP: Interval	Cnt	SICP: Type	Shots/Ft	Top Formation
4410 -	4415			4 FT 352MSNC	MISSION CANYON /ANHY/ PORO
4417 -	4429			4 FT 352MSNC	MISSION CANYON /ANHY/ PORO

Treatments: 1 Interval: 4410 - 4415
 Fluid: ACID Type: A
 Additive:
 Prop Agent:
 Formation Break Down Pressure:
 Average Injection Rate:
 Stages: Remarks:

Treatments: 2 Interval: 4417 - 4429
 Fluid: ACID Type: A
 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:	20 BPH		Condst:
Gas:			Water:
Interval:	4410 - 4429	GROSS	Method: FLOWING
Duration of Test:	Hours		Choke:
Oil:	Gravity:		GOR:
Prod Method:	PERF		
Perforations:	352MSNC	MISSION CANYON /ANHY/ PORO/	
Perf Interval:	4410 - 4415	Shots/Ft: 4	
Perforations:	352MSNC	MISSION CANYON /ANHY/ PORO/	
Perf Interval:	4417 - 4429	Shots/Ft: 4	

Treatments: 100 Interval: 4410 - 4415
 Fluid: 250 GAL ACID Type: A
 Additive:
 Prop Agent:
 Formation Break Down Pressure:
 Average Injection Rate:
 Stages: Remarks:

Treatments: 101 Interval: 4417 - 4429
 Fluid: 500 GAL ACID Type: A
 Additive:
 Prop Agent:
 Formation Break Down Pressure:
 Average Injection Rate:
 Stages: Remarks:

PD # 002

Top Formation:	MISSION CANYON /ANHY/ PORO/		
Base Formation:	MISSION CANYON /ANHY/ PORO/		
Oil:	250 BPD		Condst:
Gas:			Water:
Interval:	4410 - 4429	GROSS	Method: FLOWING
Duration of Test:	Hours		Choke: 23/64

PI/Dwights PLUS on CD Scout Ticket

Date: 10/9/2001

Time: 11:06 AM

#3714

Oil: Gravity: GOR:
 Prod Method: PERF
 Pressures: FTP: SITP:
 FCP: SICP:
 Perforations: 352MSNC MISSION CANYON /ANHY/ PORO/
 Perf Interval: 4410 - 4429 Shots/Ft: 4

DST # 001

Show: S Formation: MADISON
 Interval: 4397 - 4448 BHT
 Choke: Top: Bottom:
 Recovery: 1 2448 FT G&SMCO Rec Method: PIPE
 Recovery: 2 850 FT XW Rec Method: PIPE
 Mat'ls to Surface: GAS 10
 Mat'ls to Surface: OIL 120
 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
2389	2383			268	1491	2018	2001	10	152	60	120

Core Id: 001

Formation: 359MDSN MADISON
 Interval: 4402 - 4449 Rec: 46 FT
 Core Type: CONV Show Type: OIL
 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
 1 SS, AS ABOVE, DENSE, TIGHT, NO SHOWS
 1 DOLO, WHITE, EARTHY
 1 DOLO, WHITE, EARTHY, W/PORPHYROBLASTIC CLEAR
 COLORLESS ANHY CRYST, 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/PORPHYROBLASTIC
 ANHY
 1 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
 1 LS, AS ABOVE, NO ANHY
 1 LS, AS ABOVE, W/LARGE PORPHYROBLASTS COLORLESS
 ANHY, DENSE
 3 LS, TAN-BROWN, MEDIUM COARSE, PELLETS & CLASTS &

OOLITES, PARTLY ALGAL KNIT, W/TRACE SPARRY CALCITE
CRYSTALS IN INTERSTICES, GOOD P&P, EVEN SATURATION IN
PORO, MEDIUM-GRANULAR DOLO MATRIX, GOOD STAIN
1 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. #	Interval	Type	Form	Sample		
Show	2	4397 - 4448	O&G	359MDSN - 359MDSN			
Show	1	4402 - 4449	OIL	359MDSN - 359MDSN			
Porosity Zones	ID	Top -	Base	Type	Quality	Form code	Thickness
	1	4404 -	4405	INST	G	359MDSN	

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:06 AM

#3714

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
STATE A	4302		4314		LOG		352
MISSION CANYON /ANHY/ PO	4400				LOG		352

Dwights Energydata Narrative

Accumulated through 1997

IP: 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

Operator Address

Street or PO Box:

City:
 State, Zip: ,
 Country:
 Phone:
 E-Mail:
 Agent Name:
 Agent Remark:

Fax:

Agent Code:

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

③ #3785
wh:

OPERATOR Skelly Oil Company FIELD Mohall
 STREET P. O. Box 840 POOL Mission Canyon
 CITY Casper STATE Wyoming COUNTY Bortoneau
 LEASE NAME Gail Hutton WELL NO. 1 ACRES IN UNIT
 LOCATION C NE 1/4 NW 1/4 SEC. 6 TWP. 16N RGE. 83W ELEVATION 1615 (DF, or, KB.)
 1/4 of 1/4 Section
 PERMIT NO. 3797 ELECTRIC OR OTHER LOGS RUN? January 25, 19 65
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL 1

DATA ON TEST

DATE TEST COMMENCED 2/15 1965 HOUR 6 AM DATE TEST COMPLETED 2/16 1965 HOUR 6 A.M.
 LENGTH OF TEST 24 HOURS MINUTES

FOR FLOWING WELL:

FOR PUMPING WELL:

FLOWING PRESSURE ON CSG - LBS./SQ. IN. LENGTH OF STROKE - INCHES
 FLOWING PRESSURE ON TBG 0 to 40 LBS./SQ. IN. NUMBER OF STROKES PER MINUTE
 SIZE TBG 2-3/8" IN. WORKING BARRELS (SIZE IN.)
 SIZE CHOKE 24/64 IN. TYPE CHOKE OCT (WSS ADJ.)
 SHUT IN PRESSURE 320# - 10 day SIZE TBG 2-3/8 IN. NO. FT. RUN 4406'
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR
 OTHER ARTIFICIAL DEVICE? Yes Well flowing by heads.

Preliminary Potential Test
 RESULT OF THIS TEST (BBL. NET OIL PER 24 HRS.) 41
 GAS-OIL RATIO OF THIS WELL IS - (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 8%
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 28.0

NAME OF PIPE LINE OR OTHER CARRIER U. S. Crude Oil Purchasing Co. - Purchase
 IF SHOT: DATE Matador Service, Inc. Co. - Gather. NO. QTS. USED
 IF PERFORATED: NO. HOLES PER FT. 2 IF ACIDIZED: NO. GALS. USED 250 Dowell X
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Mission Canyon FROM 4413 FT. TO 4431 FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Wireline, Inc. and Dowell
 DATE WELL COMPLETED February 16, 19 65 HOUR WELL COMPLETED 6 A.M.
 TOP OF PAY 4406 FT.

TOTAL DEPTH OF WELL 4500 FT.
 PLUG BACK DEPTH 4476 FT.

WAS THIS WELL CORED? Yes WHAT INTERVALS? 4407' - 4457'
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM.

CASING RECORD

Size OD	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
8-5/8"	296	296	250				
4-1/2"	4472	4472	150				

EXECUTED THIS 23rd DAY OF February 19 65 Skelly Oil Company
 (Company or Operator)
 STATE OF Wyoming District Superintendent
 COUNTY OF Natrona (Signature) (Title)
 Before me the undersigned authority, on this day personally appeared J. A. Deffeyes 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 this the 23rd day of February 19 65

My Commission expires March 16, 1968 Notary Public in and for State of Wyoming

1 GAIL HUTTON

State: NORTH DAKOTA
County: BOTTINEAU
Operator: SKELLY OIL COMPANY
API: 33009008620000 IC:
Initial Class: D
Target Objective:
Final Well Class: DO
Status: OIL
Field: MOHALL
Permit: 3797 on SEP 15, 1972
3785 Abandonment Date:
Projected TD: 4500 Formation: MADISON
Hole Direction:
IP Summary: Oil Gas Water Top Form
62 BPD 8 BBL MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range: 6 161 N 83 W
Spot Code: NE NW
Footage NS, EW: 660 FNL 1980 FWL CONGRESS SECTION
Surface remark:
Principal Meridian: 5TH PRINCIPAL MRD
Lat/Long: 48.8048900 / -101.4879400 US
PBHL:
PHBL remark:
ABHL:
ABHL remark:
ABHL: From Surface: TVD:

Dates and Depths

Spud: JAN 03, 1965 Spud Date Code:
TD: 4500 on
LTD:
PlugBack Depth: 4476
Completed: MAR 24, 1965
Formation @ TD: 352STTA Name: STATE A
Ref. Elevation: 1615 KB
KB. Elevation: 1615
Ground Elevation: 1605 GR
Contractor: CALVERT DRILLING COMPANY
Rig Release Date: Rig #

IP # 001

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil: 62 BPD Condst:
Gas: Water: 8 BBL
Interval: 4413 - 4431 Method: PUMPING
Duration of Test: Hours Choke:
Oil: Gravity: GOR:
Prod Method: PERF
Perforations: Interval Cnt Type Shots/Ft Top Formation
4413 - 4431 2 FT 352MSNC MISSION CANYON /ANHY/ PORO/

Treatments: 1 Interval: 4413 - 4431

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

Treatments: 2 Interval: 4413 - 4431
Fluid: ACID Type: A
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: 76 BBL Condst:
Gas: Water:
Interval: 4413 - 4431 Method: SWABBING
Duration of Test: 10 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: 2

PD # 002

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil: 4 BPH Condst:
Gas: Water:
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: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil: 7 BPH Condst:
Gas: Water:
Interval: 4413 - 4431 Method: FLOWING
Duration of Test: 1 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:

Treatments: 100 Interval: 4413 - 4431
Fluid: 250 GAL ACID Type: A

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:06 AM

#3785

Additive:
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate:
Stages: Remarks: TP 1200**PD # 004**

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil: 41 BPD
Gas:
Interval: 4413 - 4431
Duration of Test: 24 Hours
Oil: Gravity:
Prod Method: PERF
Pressures: FTP: 40 SITP:
FCP: SICP:
Perforations: 352MSNC MISSION CANYON /ANHY/ PORO/
Perf Interval: 4413 - 4431 Shots/Ft:

Condst:
Water: 3 BBL
Method: FLOWING
Choke: 24/64
GOR:

PD # 005

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil: 44 BBL
Gas:
Interval: 4413 - 4431
Duration of Test: 5 Hours
Oil: Gravity:
Prod Method: PERF
Pressures: FTP: SITP:
FCP: SICP:
Perforations: 352MSNC MISSION CANYON /ANHY/ PORO/
Perf Interval: 4413 - 4431 Shots/Ft:

Condst:
Water:
Method: SWABBING
Choke:
GOR:

Treatments: 101 Interval: 4413 - 4431
Fluid: 750 GAL ACID Type: A
Additive:
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate:
Stages: Remarks:

PD # 006

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil: 28 BBL
Gas:
Interval: 4413 - 4431
Duration of Test: 3 Hours
Oil: Gravity:
Prod Method: PERF
Pressures: FTP: SITP:
FCP: SICP:
Perforations: 352MSNC MISSION CANYON /ANHY/ PORO/
Perf Interval: 4413 - 4431 Shots/Ft:

Condst:
Water: 97 BBL
Method: FLOWING
Choke:
GOR:

DST # 001

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

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

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
2477	2523	329	798	845	1173	798	1872	30	30	60	30

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: O&G
 Description: 2 ANHY
 1 LM & ANHY, LM OIL SAT
 1 DOLO, OIL SAT W/SMALL VUG PORO
 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

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		
Show 1	4407 - 4457	O&G	352MSNC - 352MSNC			
Porosity Zones	ID	Top - Base	Type	Quality	Form code	Thickness
	1	4407 - 4457	VUG		352MSNC	
	2	4407 - 4457	FRAC		352MSNC	

Formations and Logs

Log # 1 IL @ -
 Log # 2 AV @ -
 Top Formation Measured Top Base Base Source Lith- Age
 Depth TVD Depth TVD ology code

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:06 AM

#3785

Formations and Logs

GREENHORN	2270	LOG	603
DAKOTA	2796	LOG	602
MORRISON /JURASSIC/	3144	LOG	553
PIPER /LM/ SD/ SH/	3688	LOG	552
SPEARFISH	3949	LOG	469
CHARLES /SALT/	4187	LOG	353
MIDALE /ANHY/	4238	LOG	353
MISSION CANYON /ANHY/ PO	4406	LOG	352
STATE A	4314	SPL	352
STATE A	4315	LOG	352

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: F 41 BOPD 28.0 Grav, 4 BWPD
Perfs: 4413-4421 (Madison)
Perfs: /2; Sqzd;
Perfs: 4405-4408
Perfs: F/34 BO/9 hrs, 30% wtr; A/250 GRA; Swbd, KO & F/7 BO/1 hr, 0.8% BS&W;
Dst: #1 4397- 4430
Dst: Straddle, op 30 min, SI/1 hr, op 30 min, gd blo, incr to strg, GTS 10
Dst: min, no gge, rec 60' HGC & sli OCM, 2575' blk gassy oil, 58' oil &
Dst: wtr,btm pkr failed, IFP 329-798#, FFP 845-1173#, SIP 798-1872#, HP
Dst: 2477-2523#, BHT 110 deg
Cores: #1 4407- 4457
Cores: rec 50': 2' anhy; 1' li, oil sat, some anhy; 1' dolo,
Cores: oil sat in small vug por; 1' sd, tite, oil sat; 1' anhy; 16' li,
Cores: poor to excl por, oil sat; 2' li, sppty stn; 3' li, gd por, app oil
Cores: sat, strg sul odor; 1' dolo; 6' li, sctrd stn; 4' anhy; 1' sd, app
Cores: wet; 2' li, NS; 1' li, bledg oil, strg sul odor; 3' dolo, NS; 1' li,
Cores: bledg oil & bubbling gas from fracs; 1' li, A.A., more oil stn; 1' li,
Cores: 40% oil stn; 2' li, NS;
Dwights number: R8067850

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

Fax:

E-Mail:

Agent Name:

Agent Code:

Agent Remark:

N. Dakota State Industrial Commission Oil and Gas Division

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

OPERATOR Quintana Petroleum Corporation FIELD Mohall
STREET 500 Jefferson Bldg. POOL Mission Canyon
CITY Houston STATE Texas COUNTY Harris
LEASE NAME Gail Hutton WELL NO. 1 ACRES IN UNIT 80
LOCATION NE 1/4, SW 1/4 SEC. 6 TWP. 161 N RGE. 83 W ELEVATION 1620 (DP-11 KB.)
PERMIT NO. 3768 ELECTRIC OR OTHER LOGS RUN? Laterolog, Sonic 12/31 19 64
NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL 1

DATA ON TEST

DATE TEST COMMENCED 1/20 1965 HOUR 7 A.M. DATE TEST COMPLETED 1/21 1965 HOUR 6 A.M.
LENGTH OF TEST 23 HOURS 0 MINUTES

FOR FLOWING WELL:

FOR PUMPING WELL:

FLOWING PRESSURE ON CSG. - LBS./SQ. IN. LENGTH OF STROKE 44 INCHES
FLOWING PRESSURE ON TBG. - LBS./SQ. IN. NUMBER OF STROKES PER MINUTE 15
SIZE TBG. - IN. WORKING BARRELS 1-3/4" (SIZE IN.)
SIZE CHOKE - IN. TYPE CHOKE - (POS. ADJ.)
SHUT IN PRESSURE 250 psig SIZE TBG 2-3/8" IN. NO. FT. RUN 4436
WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICE? No

RESULT OF THIS TEST (BBL. NET OIL PER 24 HRS.) 90 BOPD
GAS-OIL RATIO OF THIS WELL IS Unknown (CU. FT. OF GAS PER BBL. OF OIL)
PERCENT WATER PRODUCED DURING THIS TEST 34%
GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 28.1°

NAME OF PIPE LINE OR OTHER CARRIER Portal Pipeline

IF SHOT: DATE - NO. QTS. USED -
IF PERFORATED: NO. HOLES PER FT. 4 jets IF ACIDIZED: NO. GALS. USED 800
GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Mission Canyon FROM 4436 1/2 FT. TO 4442 FT. 4442
SHOOTING, PERFORATING OR TREATING COMPANY Lane-Weils, Dowell
DATE WELL COMPLETED 1/11 1965 HOUR WELL COMPLETED 11 A.M.
TOP OF PAY 4432 1/2 FT.

TOTAL DEPTH OF WELL 4525 FT.
PLUG BACK DEPTH 4489 FT.

WAS THIS WELL CORED? Yes WHAT INTERVALS? 4406 1/2' - 4447'
GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM

CASING RECORD

Size	Put in Well Ft.	In.	Left in Well Ft.	In.	No. Sacks Cement	Size	Put in Well Ft.	In.	Left in Well Ft.	In.	No. Sacks Cement
8-5/8"	324	0	324	0	200						
4-1/2"	4525	0	4525	0	200						

EXECUTED THIS 22 DAY OF January 1965 Quintana Petroleum Corporation
(Company or Operator)

STATE OF Texas
COUNTY OF Harris

John B. Brock Supt.
(Signature) (Title)

Before me the undersigned authority, on this day personally appeared John B. Brock 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 this the 22nd day of January 19 65

My Commission expires 6-1-65 Notary Public in and for Harris County, Tex.

1 GAIL HUTTON

State: NORTH DAKOTA
 County: BOTTINEAU
 Operator: QUINTANA PET CORP
 API: 33009008470000 IC:
 Initial Class: D
 Target Objective:
 Final Well Class: DO
 Status: OIL
 Field: MOHALL
 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: 6 161 N 83 W
 Spot Code: NE SW
 Footage NS, EW: 1980 FSL 1980 FWL CONGRESS SECTION
 Surface remark:
 Principal Meridian: 5TH PRINCIPAL MRD
 Lat/Long: 48.7976900 / -101.4879300 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
 Gas:
 Interval: 4432 - 4442 GROSS
 Duration of Test: Hours
 Oil: Gravity: 28.1
 Prod Method: PERF
 Perforations: Interval Cnt Type Shots/Ft Top Formation
 4436 - 4437 JET 4 FT 352MSNC MISSION CANYON /ANHY/ PORO/
 4441 - 4442 JET 4 FT 352MSNC MISSION CANYON /ANHY/ PORO/
 4432 - 4433 AJET 1 FT 352MSNC MISSION CANYON /ANHY/ PORO/

4436 - 4437 AJET 1 FT 352MSNC MISSION CANYON /ANHY/ PORO
4441 - 4442 AJET 1 FT 352MSNC MISSION CANYON /ANHY/ PORO

Treatments: 1 Interval: 4441 - 4442
Fluid: 300 GAL ACID Type: A
Additive:
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate:
Stages: Remarks:

Treatments: 2 Interval: 4432 - 4442
Fluid: 500 GAL ACID Type: A
Additive:
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate:
Stages: Remarks:

DST # 001

Show: S Formation: MADISON
Interval: 4424 - 4447 BHT 134
Choke: Top: Bottom:
Recovery: 1 1937 FT GCO Rec Method: PIPE
Recovery: 2 542 FT SGCXW Rec Method: PIPE
Mat'ls to Surface: GAS 15
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
2353 2353 162 1027 2002 1931 65 240 60 60

Core Id: 001

Formation: 359MDSN MADISON
Interval: 4406 - 4447 Rec: 38 FT
Core Type: CONV Show Type: OSTN
Description: 1 MUDSTONE
19 ANHY
2 ANHY, DOLO
3 SS, GREY GREEN, DOLO, TIGHT
3 DOLO, GREY, ANHY, TIGHT
5 DOLO, ANHY, FAIR-GOOD PORO, GOOD OSTN
5 LM, PELLETOIDAL, GOOD PORO, GOOD OSTN

Casing, Liner, Tubing

Casing 8 5/8 IN @ 324 w/ 200 sx
Casing 4 1/2 IN @ 4525 w/ 200 sx
Tubing 2 3/8 IN @ 4436 TUBING

Drilling Journal

	Obs. #	Interval	Type	Form	Sample	
Show	1	4406 - 4447	OSTN	359MDSN - 359MDSN		
Show	2	4424 - 4447	O&G	359MDSN - 359MDSN	W	
Show	3	4424 - 4447	WET	359MDSN - 359MDSN		
Porosity Zones	ID	Top -	Base Type	Quality	Form code	Thickness
	1	4406 -	4447 INST	G	359MDSN	
Wellsite Geologist	1	JOHN DYER				

#3756

Formations and Logs

	Log # 1	IL	@	-					
	Log # 2	EL	@	-					
Top Formation		Measured		Top	Base	Base	Source	Lith-	Age
		Depth		TVD	Depth	TVD		ology	code
GREENHORN		2282					LOG		603
DAKOTA		2820					LOG		602
SPEARFISH		3958					LOG		469
CHARLES /SALT/		4190					LOG		353
MIDALE /ANHY/		4253					LOG		353
MISSION CANYON /ANHY/ PO		4424					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:

Fax:

E-Mail:

Agent Name:

Agent Code:

Agent Remark:

**North Dakota State Industrial Commission
Oil and Gas Division**

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE



OPERATOR Earl Schwartz Co. FIELD Mohall
 STREET Kenmare POOL Madison
 CITY Kenmare STATE North Dakota COUNTY Bottineau
 LEASE NAME Hutton WELL NO. 2 ACRES IN UNIT 80
 LOCATION SW/NW SEC 6 TWP 161 RGE 83 ELEVATION 1603
 PERMIT NO. 9823 ELECTRIC OR OTHER LOGS RUN? Yes 1/24 83
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL 2

DATA ON TEST

DATE TEST COMMENCED 2/16 1983 HOUR 8A. DATE TEST COMPLETED 2/17 1983 HOUR 8A. M.
 LENGTH OF TEST 24 HOURS 8A. MINUTES

FOR FLOWING WELL:**FOR PUMPING WELL:**

FLOWING PRESSURE ON CSG. LBS./SQ. IN. LENGTH OF STROKE 64 INCHES
 FLOWING PRESSURE ON TBG. LBS./SQ. IN. NUMBER OF STROKES PER MINUTE 9
 SIZE TBG 2 3/8 IN. WORKING BARRELS 1 1/2 (SIZE IN.)
 SIZE CHOKE IN. TYPE CHOKE (POS. ADJ.)
 SHUT IN PRESSURE 25# SIZE TBG 2 3/8 IN. NO. FT. RUN 4,400'
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR
 OTHER ARTIFICIAL DEVICE? No

RESULT OF THIS TEST (BBLs. NET OIL PER 24 HRS.) 18 bbls.
 GAS-OIL RATIO OF THIS WELL IS TSTM (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 80%
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° API.) 27

NAME OF PIPE LINE OR OTHER CARRIER Portal Pipe Line
 IF SHOT: DATE 1/24/83 NO. QTS. USED 4,426' to 4,450'
 IF PERFORATED: NO. HOLES PER FT. 4 IF ACIDIZED: NO. GALS. USED 2,500 4444
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Mohall FROM 4,428 FT. TO 4,844 FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Pengo
 DATE WELL COMPLETED 1/28 19 83 HOUR WELL COMPLETED M.
 TOP OF PAY 4,428 FT.

TOTAL DEPTH OF WELL 4,525 FT.
 PLUG BACK DEPTH 4,467 FT.

WAS THIS WELL CORED? Yes WHAT INTERVALS? 4,426' to 4,450'
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM.

CASING RECORD

Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
8 5/8"	419'	419'	300 sks.	5 1/2"	4,525'	4,525'	400 sks.

EXECUTED THIS 22 DAY OF February 19 83Earl Schwartz Co.STATE OF North Dakota

(Company or Operator)

COUNTY OF Ward

(Signature)

Operator

(Title)

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 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 this 22 day of February 19 83DONNA M. OLSON

Notary Public Ward County, N.D.

My Commission expires Dec 11 1982 Notary Public in and for

2 HUTTON GAIL

State: NORTH DAKOTA
 County: BOTTINEAU
 Operator: SCHWARTZ EARL
 API: 33009015740000 IC:
 Initial Class: D
 Target Objective:
 Final Well Class: DO
 Status: OIL
 Field: MOHALL
 Permit: 9823 on APR 15, 1983
 Abandonment Date:
 Projected TD: 4500 Formation: MADISON
 Hole Direction:
 IP Summary: Oil Gas Water Top Form
 18 BPD 72 BBL MADISON

Location

Section, Twp., Range: 6 161 N 83 W
 Spot Code: E2 SW NW
 Footage NS, EW: 1980 FNL 732 FWL CONGRESS SECTION
 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 Spud Date Code:
 TD: 4525 on
 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
 Base Formation: MADISON
 Oil: 18 BPD
 Gas:
 Interval: 4428 - 4444
 Duration of Test: Hours
 Oil: Gravity: 27
 Prod Method: PERF
 Perforations: Interval Cnt Type Shots/Ft Top Formation
 4428 - 4444 4 FT 359MDSN MADISON
 Condst:
 Water: 72 BBL
 Method: PUMPING
 Choke:
 GOR:

Treatments: 1 Interval: 4428 - 4444

PI/Dwights PLUS on CD Scout Ticket

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: Remarks:

Core Id: 001

Formation: 359MDSN MADISON
Interval: 4426 - 4450 Rec: 16 FT
Core Type: CONV 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

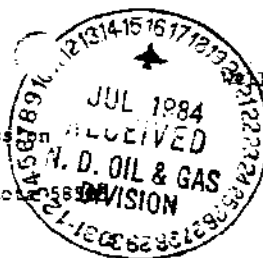
Dst: None
Dwights number: R1268030

Operator Address

Street or PO Box:

City:
State, Zip: ,
Country:
Phone: Fax:
E-Mail:
Agent Name: Agent Code:
Agent Remark:

North Dakota Industrial Commission
Oil and Gas Division
900 East Blvd., Bismarck, North Dakota 58105



File # 8231

PNA

PLUGGING RECORD

OPERATOR Monsanto Oil Company FIELD Mohall POOL Madison
LEASE NAME Kreider WELL NO. 1 SEC. 32 TWP. 162N RGE. 83W
COUNTY Bottineau TOTAL DEPTH 4417' ELEV. 1591' NRK, GRX
DATE PLUGGED March 11, 19 84, DIRECT CORRESPONDENCE TO: Monsanto Oil Company
STREET Suite 600, 5613 DTC Parkway CITY Englewood STATE Colorado 80111
Cyberlook,
ELECTRIC OR OTHER LOGS RUN? DLI-MSFL, CNL-FDC NO. OF DSTS RUN 1 (see back)
WAS WELL CORED? No INTERVALS CORED None
WAS THE WELL FILLED WITH MUD LADEN FLUID? Yes MUD WEIGHT 10.1 #/GAL.

WELL RECORD

CASING				PLUGS	CEMENT	
SIZE	DEPTH SET	WEIGHT #/FT	AMOUNT PULLED	TYPE & DEPTH	NO. SACKS	INTERVAL
8-5/8"	603'	24		See remarks		
5-1/2"	4417'	15.5				

REMARKS: Set CTRP @ 4220' and dumped 10 sx cement on top. Perforated 608-613' with
2 spf. Set cement retainer at 450'. Squeezed 25 sx cement below surface casing
shoe and 25 sx in 5-1/2" casing. Pulled out retainer and spotted 3 sx cement on top.
Casing was cut off 3' below surface and capped with 10 sx cement.

WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS? Yes

Executed this 5th day of July, 19 84. MONSANTO OIL COMPANY
(Company or Operator)

K. J. Ebner Regional Prod. Mgr.
(Signature) (Title)

STATE OF Colorado

COUNTY OF Arapahoe

Before me the undersigned authority, on this day personally appeared K. J. Ebner 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 this the 5th day of July, 19 84.

My Commission expires March 15, 1986 Notary Public in and for State of Colorado
SAJ:jas

PI/Dwights PLUS on CD Scout Ticket

Date: 10/9/2001

Time: 11:03 AM

#8231

1 KREIDER

State: NORTH DAKOTA
County: BOTTINEAU
Operator: MONSANTO CO ETAL
API: 33009014370001 IC:
Initial Class: D X
Target Objective:
Final Well Class: D
Status: D&AW
Field: MOHALL
Permit: on AUG 12, 1998
Abandonment Date:
Projected TD: Formation:
Hole Direction:

Location

Section, Twp., Range: 32 162 N 83 W
Spot Code: NW SW SE
Footage NS, EW: 810 FSL 2130 FEL CONGRESS SECTION
Surface remark:
Principal Meridian: 5TH PRINCIPAL MRD

Lat/Long: 48.8088500 / -101.4615900 US

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL:

From Surface:

TVD:

Location Narrative:

Type

Remark

LOCATION

1/2 MI E OF PRODUCTION IN MOHALL FLD /MADISON/ 1/4
MI E OF MOHALL FLD BOUNDARY**Dates and Depths**

Spud: OCT 08, 1982

Spud Date Code:

TD: 4417 on

LTD:

PlugBack Depth:

Completed: MAR 11, 1984

Formation @ TD: 359MDSN Name: MADISON

Ref. Elevation: 1602 KB

KB. Elevation: 1602

Ground Elevation: 1591 GR

Contractor:

Rig Release Date:

Rig #

Dwights Energydata Narrative

Accumulated through 1997

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

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

Perfs: 4258-4272 (Bluell)

Perfs: - acid w/500 gal HCl

Perfs: 4220-4222 (Bluell)

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

Dwights number: R1125741

Operator Address

Street or PO Box:

1 KREIDER

State: NORTH DAKOTA
County: BOTTINEAU
Operator: MONSANTO CO ETAL
API: 33009014370000 IC:
Initial Class: WO
Target Objective:
Final Well Class: WO
Status: TA-OG
Field: MOHALL
Permit: 8231 on MAY 15, 1981
Abandonment Date:
Projected TD: 4400 Formation: MADISON
Hole Direction:

Location

Section, Twp., Range: 32 162 N 83 W
Spot Code: NW SW SE
Footage NS, EW: 810 FSL 2130 FEL CONGRESS SECTION
Surface remark:
Principal Meridian: 5TH PRINCIPAL MRD

Lat/Long: 48.8088500 / -101.4615900 US
PBHL:
PHBL remark:
ABHL:
ABHL remark:
ABHL: From Surface: TVD:
Location Narrative: Type Remark
LOCATION 1/2 MI E OF PRODUCTION IN MOHALL FLD /MADISON/ 1/4
MI E OF MOHALL FLD BOUNDARY

Dates and Depths

Spud: DEC 13, 1980 Spud Date Code:
TD: 4400 on
LTD: 4417
PlugBack Depth:
Completed: JAN 29, 1981
Formation @ TD: 359MDSN Name: MADISON
Ref. Elevation: 1601 KB
KB. Elevation: 1601
Ground Elevation: 1591 GR
Contractor: BOMAC EXPLORATION COMPANY
Rig Release Date: Rig # 31

PD # 001

Top Formation:
Base Formation:
Oil: Condst:
Gas: Water: 24 BBL
Interval: 4366 - 4366 Method: SWABBING
Duration of Test: Hours Choke:
Oil: Gravity: GOR:
Prod Method: PERF
Perforations:
Perf Interval: 4366 - 4366 Shots/Ft: 1

PI/Dwights PLUS on CD Scout Ticket

Date: 10/9/2001

Time: 11:02 AM

Treatments: 100 Interval: 4366 - 4366
Fluid: 500 GAL ACID 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: Water: 105 BBL
Interval: 4366 - 4366 Method: SWABBING
Duration of Test: 5 Hours Choke:
Oil: Gravity: GOR:
Prod Method: PERF
Pressures: FTP: SITP:
FCP: SICP:
Perforations:
Perf Interval: 4366 - 4366 Shots/Ft: 1

Treatments: 101 Interval: 4366 - 4366
Fluid: 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: Water:
Interval: 4367 - 4367 Method: UNDESIGNATED
Duration of Test: Hours Choke:
Oil: Gravity: GOR:
Prod Method: PERF
Perforations:
Perf Interval: 4367 - 4367 Shots/Ft:

Treatments: 102 Interval: 4367 - 4367
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: S Formation:
Interval: 4331 - 4354 BHT
Choke: Top: Bottom:
Recovery: 1 100 FT G&OCM Rec Method: PIPE
Recovery: 2 800 CC O Rec Method: SMPL CHAMBER
Recovery: 3 1500 CC XW Rec Method: SMPL CHAMBER

PI/Dwights PLUS on CD Scout Ticket

Date: 10/9/2001

Time: 11:02 AM

Oil: 1 Grav: 40 GOR:
Gas: Condnt ratio:
Water: CL Tot: Temp: Resist:
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
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:

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

No.

Mo Hall

5-761

OPERATOR Monsanto Company FIELD Wildcat
 STREET 900 Patterson Building POOL Madison
 CITY Denver STATE Colorado COUNTY Bottle Creek
 LEASE NAME Ring WELL NO. 1 ACRES IN UNIT 80
 LOCATION SW SW SEC. 32 TWP. 162N RGE. 83W ELEVATION 1595 (AS BOUND KB.)
 PERMIT NO. 3796 ELECTRIC OR OTHER LOGS RUN? December 28, 1964
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL one

DATA ON TEST

DATE TEST COMMENCED 1-24 1965 HOUR A. M. DATE TEST COMPLETED 1-25 1965 HOUR A. M.
 LENGTH OF TEST 24 HOURS 0 MINUTES

FOR FLOWING WELL:

FLOWING PRESSURE ON CSG LBS./SQ. IN. LENGTH OF STROKE 54 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 125 in 12 hrs. SIZE TBG 2 3/8 IN. NO. FT. RUN 4402
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR
 OTHER ARTIFICIAL DEVICE? No

FOR PUMPING WELL:

RESULT OF THIS TEST (BBLs. NET OIL PER 24 HRS.) 55
 GAS-OIL RATIO OF THIS WELL IS TSM (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 22
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 29

NAME OF PIPE LINE OR OTHER CARRIER U.S.C.O.P. Co.
 IF SHOT: DATE NO. QTS. USED
 IF PERFORATED: NO. HOLES Perforated IF ACIDIZED: NO. GALS. USED 1,000 gallons
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Madison FROM 4366 TO 4380 FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Perf. by Lane Wells; Acid by Dowell
 DATE WELL COMPLETED January 21, 19 65 HOUR WELL COMPLETED 6:00 P. M.
 TOP OF PAY 4366 FT.

TOTAL DEPTH OF WELL 4466 FT.
 PLUG BACK DEPTH 4420 FT.

WAS THIS WELL CORED? Yes WHAT INTERVALS? 4368 to 4420
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM

CASING RECORD

Size	Put in Well Ft.	In.	Left in Well Ft.	In.	No. Sacks Cement	Size	Put in Well Ft.	In.	Left in Well Ft.	In.	No. Sacks Cement
3 5/8	321	0	Same		224						
4 1/2	4454	0	Same		150						

EXECUTED THIS 25th DAY OF January 19 65 Monsanto Company
 (Company or Operator)

STATE OF Colorado ss J. Murphy, Jr. Dist. Prod. Supt.
 COUNTY OF Denver (Signature) (Title)

Before me the undersigned authority, on this day personally appeared J. Murphy, Jr. 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 this the 25th day of January 19 65

My Commission expires August 20, 1968 Notary Public in and for the State of Colorado

1 HAROLD RING

State: NORTH DAKOTA
County: BOTTINEAU
Operator: MONSANTO CO ETAL
API: 33009008610000 IC:
Initial Class: WO
Target Objective:
Final Well Class: WOE
Status: OIL
Field: MOHALL
Permit: 3796 on SEP 15, 1972
#3784 Abandonment Date:
Projected TD: 4500 Formation: MISSION CANYON /ANHY/ PORO/
Hole Direction:
IP Summary: Oil Gas Water Top Form
55 BPD 12 BBL MADISON

Location

Section, Twp., Range: 32 162 N 83 W
Spot Code: SW SW
Footage NS, EW: 660 FSL 660 FWL CONGRESS SECTION
Surface remark:
Principal Meridian: 5TH PRINCIPAL MRD
Lat/Long: 48.8084100 / -101.4718100 US
PBHL:
PHBL remark:
ABHL:
ABHL remark:
ABHL: From Surface: TVD:

Dates and Depths

Spud: DEC 14, 1964 Spud Date Code:
TD: 4466 on
LTD: 4473
PlugBack Depth: 4420
Completed: JAN 25, 1965
Formation @ TD: 352MSNC Name: MISSION CANYON /ANHY/ PORO/
Ref. Elevation: 1595 KB
KB. Elevation: 1595
Ground Elevation: 1584 GR
Contractor: CALVERT DRILLING COMPANY
Rig Release Date: Rig #

IP # 001

Top Formation: MADISON
Base Formation: MADISON
Oil: 55 BPD
Gas:
Interval: 4366 - 4380
Duration of Test: 24 Hours
Oil: Gravity: 29
Prod Method: PERF
Pressures: FTP: SITP: 125
FCP: SICP:
Perforations: Interval Cnt Type Shots/Ft Top Formation
4366 - 4380 NOTCH 2 FT 359MDSN MADISON
Condst:
Water: 12 BBL
Method: PUMPING
Choke:
GOR:

#3784

Date: 10/9/2001

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: S Formation: MISSION CANYON /ANHY/ PORO/
 Interval: 4368 - 4420 BHT
 Choke: Top: Bottom:
 Recovery: 1 240 FT SO&GCM Rec Method: PIPE
 Recovery: 2 750 FT VSO&GCM 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
				20	553	2069	2053	3	105	45	120

 Dst Test Remark: FAIR BLOW, INCR TO STRONG IN 6 MINS, CONTINUED STRONG
 Dst Test Remark: THRUOUT TEST

DST # 002

Show: S Formation: MISSION CANYON /ANHY/ PORO/
 Interval: 4375 - 4391 BHT
 Choke: Top: Bottom:
 Recovery: 1 58 FT SGCM 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
								6	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: 001

Formation: 352MSNC MISSION CANYON /ANHY/ PORO/
 Interval: 4368 - 4420 Rec: 52 FT
 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				

Drilling Journal

Show	1	4368	-	4420	O&G	352MSNC	-	352MSNC
Porosity Zones	ID	Top	-	Base	Type	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		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
 Dst: , SI/45 min, op 2 hrs, SI/2 hrs, rec 58' sli GCM, no pressures recorded
 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
 Cores: stn & odor; 2' li, tite, sctrd stn; 1 1/2' li, gd por, gd stn;
 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:

Fax:

E-Mail:

Agent Name:

Agent Code:

Agent Remark:

**N. Dakota State Industrial Commission
Oil and Gas Division**

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE



OPERATOR Monsanto Company FIELD Mohall
 STREET Suite 500, 700 S. Colorado Blvd. POOL Madison
 CITY Denver STATE Colorado 80222 COUNTY Bottleau
 LEASE NAME Ring WELL NO. 2 ACRES IN UNIT 80
 LOCATION NE 1/4 SW 1/4 SEC 32 TWP 162N RGE 33W ELEVATION 1603 ~~XX~~ ~~XX~~ KRS.
 of 1/4 Section
 PERMIT NO. 7799 ELECTRIC OR OTHER LOGS RUN? Yes August 14, 1980
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE INCLUDING THIS WELL 2

DATA ON TEST

DATE TEST COMMENCED Oct. 15, 1980 HOUR 7 AM DATE TEST COMPLETED Oct. 16, 1980 HOUR 7A M.
 LENGTH OF TEST 24 HOURS 0 MINUTES

FOR FLOWING WELL:**FOR PUMPING WELL:**

FLOWING PRESSURE ON CSG --- LBS./SQ. IN. LENGTH OF STROKE 64 INCHES
 FLOWING PRESSURE ON TBG --- LBS. SQ. IN. NUMBER OF STROKES PER MINUTE 10
 SIZE TBG --- IN. WORKING BARRELS 1-1/4 SIZE IN.
 SIZE CHOKE --- IN. TYPE CHOKE --- POS. ADJ.
 SHUT IN PRESSURE --- SIZE TBG 2-7/8 IN. NO. FT. RUN 4372
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAY OR
 OTHER ARTIFICIAL DEVICE? N/A (pumping well)

RESULT OF THIS TEST (BBL. NET OIL PER 24 HRS.) 10
 GAS-OIL RATIO OF THIS WELL IS 140 CU. FT. OF GAS PER BBL. OF OIL
 PERCENT WATER PRODUCED DURING THIS TEST None
 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: DATE --- NO. QTS. USED ---
 IF PERFORATED: NO. HOLES PER FT. See back IF ACIDIZED: NO. GALS. USED 2500
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED See back FROM --- FT. TO --- FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Dresser Industries
 DATE WELL COMPLETED October 16, 1980 HOUR WELL COMPLETED 4:00 P. M.
 TOP OF PAY 4334 FT.

TOTAL DEPTH OF WELL 4700 FT.
 PLUG BACK DEPTH --- FT.

WAS THIS WELL CORED? Yes WHAT INTERVALS? #1 4345-4390
 #2 4390-4442
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM.

CASING RECORD

Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
8-5/8	382'	Same	275				
5-1/2	4,696'	Same	500				

EXECUTED THIS 26th DAY OF November 1980 Monsanto Company
 (Company or Operator)
 STATE OF Colorado E. M. Scholl Regional Production Mgr.
 COUNTY OF Arapahoe (Signature) (Title)

Before me the undersigned authority, on this day personally appeared E. M. Scholl 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 this the 26th day of November 1980
Melinda A. Simonton
 My Commission expires June 20, 1984 Notary Public in and for State of Colorado

2 RING

State: NORTH DAKOTA
County: BOTTINEAU
Operator: MONSANTO CO ETAL
API: 33009013950000 IC:
Initial Class: D
Target Objective:
Final Well Class: DO
Status: OIL
Field: MOHALL
Permit: 7799 on JAN 15, 1981
Abandonment Date:
Projected TD: 4700 Formation: MADISON
Hole Direction:
IP Summary: Oil Gas Water Top Form
10 BPD MADISON

Location

Section, Twp., Range: 32 162 N 83 W
Spot Code: SW NE SW
Footage NS, EW: 1820 FSL 1820 FWL CONGRESS SECTION
Surface remark:
Principal Meridian: 5TH PRINCIPAL MRD
Lat/Long: 48.8116000 / -101.4670400 US
PBHL:
PHBL remark:
ABHL:
ABHL remark:
ABHL: From Surface: TVD:

Dates and Depths

Spud: AUG 01, 1980 Spud Date Code:
TD: 4700 on
LTD: 4693
PlugBack Depth:
Completed: OCT 16, 1980
Formation @ TD: 359MDSN Name: MADISON
Ref. Elevation: 1603 KB
KB. Elevation: 1603
Ground Elevation: 1593 GR
Contractor: BOMAC EXPLORATION COMPANY
Rig Release Date: Rig # 2

IP # 001

Top Formation: MADISON
Base Formation:
Oil: 10 BPD Condst:
Gas: Water:
Interval: - Method: PUMPING
Duration of Test: Hours Choke:
Oil: Gravity: 27.5 GOR: 140
Prod Method: PERF
Perforations: Interval Cnt Type Shots/Ft Top Formation
359MDSN MADISON

Remarks on IP Test # 001 INT NOT RPTD

PD # 001

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:02 AM

Top Formation: MADISON
 Base Formation: MADISON
 Oil:
 Gas:
 Interval: 4364 - 4368
 Duration of Test: Hours
 Oil: Gravity:
 Prod Method: PERF
 Perforations: 359MDSN MADISON
 Perf Interval: 4364 - 4368 Shots/Ft: 2

Condst:
 Water:
 Method: UNDESIGNATED
 Choke:
 GOR:

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 Formation: MOHALL
 Interval: 4345 - 4390 BHT
 Choke: Top: Bottom:
 Recovery: 1 2 FT O Rec Method: PIPE
 Recovery: 2 278 FT SOCM Rec Method: PIPE
 Recovery: 3 2100 CC VSOCM Rec Method: SMPL CHAMBER
 Recovery: 4 2100 CC VSOCM Rec Method: SMPL CHAMBER

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
2298	2324	104	98	104	130	1755	1705	15	90	60	260

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:

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

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 IN @ 382 w/ 275 sx
 2 of 3

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:02 AM**Casing, Liner, Tubing**Casing 5 1/2 IN @ 4696 w/ 500 sx
Tubing 2 7/8 IN @ 4372 TUBING**Formations and Logs**Log # 1 DNC @ -
Log # 2 NEC @ -
Log # 3 GR @ -
Log # 4 AVC @ -
Log # 5 AV @ -
Log # 6 CA @ -**Dwights Energydata Narrative**

Accumulated through 1997

Dst: #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/1 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

Dwights number: R1084030

Operator Address

Street or PO Box:

City:

State, Zip: ,

Country:

Phone:

Fax:

E-Mail:

Agent Name:

Agent Code:

Agent Remark:

**North Dakota State Industrial Commission
Oil and Gas Division**

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

6-798

OPERATOR Quintana Petroleum Corporation FIELD Mohall
 STREET 500 Jefferson Bldg. POOL Mission Canyon
 CITY Houston 2 STATE Texas COUNTY Harris
 LEASE NAME Anna V. Rouse et al WELL NO. 1 ACRES IN UNIT 80
 LOCATION SW, SE SEC. 31 TWP. 162N RGE. R1 W ELEVATION 1597 (KB.)
 1/4 of 1/4 Section
 PERMIT NO. 3886 ELECTRIC OR OTHER LOGS RUN? IES, GR-Sonic 5/31 19 65
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL 1

DATA ON TEST

DATE TEST COMMENCED 6/13, 1965 HOUR 7 A.M. DATE TEST COMPLETED 6/14 19 65 HOUR 7 A.M.
 LENGTH OF TEST 24 HOURS MINUTES

FOR FLOWING WELL:**FOR PUMPING WELL:**

FLOWING PRESSURE ON CSG - LBS./SQ. IN. LENGTH OF STROKE 64 INCHES
 FLOWING PRESSURE ON TBG - LBS./SQ. IN. NUMBER OF STROKES PER MINUTE 15
 SIZE TBG - IN. WORKING BARRELS 1-3/4 (SIZE IN.)
 SIZE CHOKE - IN. TYPE CHOKE - (POS.ADJ.)
 SHUT IN PRESSURE - SIZE TBG 2-3/8 IN. NO. FT. RUN -
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR
 OTHER ARTIFICIAL DEVICE? No

RESULT OF THIS TEST (BBL. NET OIL PER 24 HRS.) 288 BOPD
 GAS-OIL RATIO OF THIS WELL IS 299 to 1 (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 5%
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 28.2

NAME OF PIPE LINE OR OTHER CARRIER USCOPC; Portal Pipe Line
 IF SHOT: DATE - NO. QTS. USED -
 IF PERFORATED: NO. HOLES PER FT. 4 IF ACIDIZED: NO. GALS. USED 1,000
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Mission FROM 4389 FT. TO 4395 FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Lane Wells & Dorell
 DATE WELL COMPLETED 6/8 19 65 HOUR WELL COMPLETED 2:15 P. M.
 TOP OF PAY 4376 FT.

TOTAL DEPTH OF WELL 4404 FT.
 PLUG BACK DEPTH 4398.5 FT.

WAS THIS WELL CORED? Yes WHAT INTERVALS? 4370-4404'
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM.

CASING RECORD

Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
8-5/8	324 9	324 9	140				
4-1/2	4404	4404	100				
2-3/8	4399	4399	-				

EXECUTED THIS 21st DAY OF June 19 65 Quintana Petroleum Corporation
 (Company or Operator)

STATE OF Texas
 COUNTY OF Harris

John B. Brock Sept
 (Signature) (Title)

Before me the undersigned authority, on this day personally appeared John B. Brock 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 this the 21st day of June 19 65

My Commission expires 6-1-67

Notary Public in and for Harris County, Texas

1 ANNA V ROUSE ETAL

State: NORTH DAKOTA
County: BOTTINEAU
Operator: QUINTANA PET CORP
API: 33009008850000 IC:
Initial Class: D
Target Objective:
Final Well Class: DO
Status: OIL
Field: MOHALL
Permit: 3886 on SEP 15, 1972
3874 Abandonment Date:
Projected TD: 4450 Formation: MADISON
Hole Direction:
IP Summary: Oil Gas Water Top Form
288 BPD MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range: 31 162 N 83 W
Spot Code: SW SE
Footage NS, EW: 660 FSL 1980 FEL CONGRESS SECTION
Surface remark:
Principal Meridian: 5TH PRINCIPAL MRD
Lat/Long: 48.8084600 / -101.4827700 US
PBHL:
PHBL remark:
ABHL:
ABHL remark:
ABHL: From Surface: TVD:

Dates and Depths

Spud: MAY 21, 1965 Spud Date Code:
TD: 4404 on
LTD: 4410
PlugBack Depth:
Completed: JUN 14, 1965
Formation @ TD: 359MDSN Name: MADISON
Ref. Elevation: 1597 KB
KB. Elevation: 1597
Ground Elevation: 1588 GR
Contractor: CARDINAL DRILLING
Rig Release Date: Rig #

IP # 001

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil: 288 BPD Condst:
Gas: Water:
Interval: 4382 - 4402 GROSS Method: PUMPING
Duration of Test: 24 Hours Choke:
Oil: Gravity: 28.2 GOR: 299
Prod Method: PERF
Perforations: Interval Cnt Type Shots/Ft Top Formation
4382 - 4385 JET 4 FT 352MSNC MISSION CANYON /ANHY/ PORO/
4387 - 4388 JET 4 FT 352MSNC MISSION CANYON /ANHY/ PORO/
4389 - 4395 JET 4 FT 352MSNC MISSION CANYON /ANHY/ PORO/

4392 - 4402 JET 4 FT 352MSNC MISSION CANYON /ANHY/ PORO

Treatments: 1 Interval: 4382 - 4402
Fluid: 1000 GAL ACID Type: A
Additive:
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate:
Stages: Remarks:

DST # 001

Show: S Formation: MADISON
Interval: 4366 - 4404 BHT
Choke: Top: Bottom:
Recovery: 1 2245 FT VGHMCO Rec Method: PIPE
Recovery: 2 60 FT VGSMCO 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 2369 443 887 1927 1794 30 24 15

Core Id: 001

Formation: 359MDSN MADISON
Interval: 4370 - 4404 Rec: 33 FT
Core Type: CONV Show Type: OIL
Description: 1 SS, FINE-GRAINED, ANGULAR, CEMENTED COMPLETELY
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 CRYST
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 CRYST, 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
FRIABLE
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
1 MOSTLY LS, BUFF, FINELY CRYST, NO SHOW, W/STREAKS

VUGGY PORO, STAIN IN ALL PORO, POOR PAY
 2 LS, BUFF, FINELY CRYST, NO SHOW, BANDS DOLO, FINELY
 CRYST, POOR-FAIR INTERCRYST PORO, EVENLY STAINED, POOR
 PAY
 1 LS, BUFF, FINE TO MEDIUM PELLETOID, PHENOCRYST
 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
 CRYST 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 CRYST CLEAR
 ANHY
 1 LS, LIGHT GREY, FINELY CRYST, TIGHT, FLOATING TAN TO
 BUFF PELLETS, NO SHOW
 1 LS, AS ABOVE, BUT STREAKS HAVE EXCELLENT SMALL VUG
 PORO, LINED W/FINE DOLO CRYST, 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 CRYST, ABOUT 30%, HAS GOOD
 INTERCRYST 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 CRYST, BROWN ANHY
 1 LS, BUFF, FINELY CRYST, TIGHT, EXCEPT RARE PATCHES
 W/FAIR-GOOD SMALL VUG PORO, STAINED, NO PAY
 1 DOLO, LIGHT GREY, FINELY CRYST, TIGHT, NO SHOW
 PHENOCRYST 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. #	Interval	Type	Form		Sample
Show	1		4366 - 4404	O&G	359MDSN - 359MDSN		
Show	2		4370 - 4404	OIL	359MDSN - 359MDSN		
Porosity Zones	ID	Top	Base	Type	Quality	Form code	Thickness
	1	4376	4377	VUG	G	359MDSN	
	2	4377	4379	IGRN	G	359MDSN	
	3	4381	4382	INST	G	359MDSN	
	4	4383	4388	VUG	G	359MDSN	
	5	4388	4389	VUG		359MDSN	
	6	4389	4396	INST	G	359MDSN	
	7	4391	4396	VUG	G	359MDSN	
Wellsite Geologist	1	JOHN DYER					

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:01 AM**Formations and Logs**

Top Formation	Log # 1 Measured Depth	IL @ AV @	324 - 4409 3406 - 4406	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age code
GREENHORN	2234						LOG		603
DAKOTA	2769						LOG		602
SPEARFISH	3918						LOG		469
CHARLES /SALT/	4146						LOG		353
MIDALE /ANHY/	4202						LOG		353
STATE A					4287		LOG		352
MISSION CANYON /ANHY/ 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:

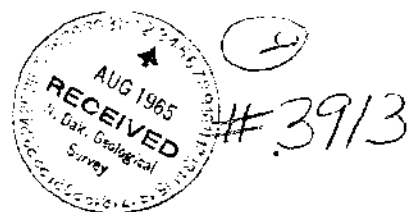
Fax:

Agent Code:

**North Dakota State Industrial Commission
Oil and Gas Division**

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE



4-302
OPERATOR Amerada Petroleum Corporation FIELD Mohall
STREET Box 1009 POOL Madison
CITY Williston STATE North Dakota COUNTY Bottineau
LEASE NAME E. M. Davis WELL NO. 1 ACRES IN UNIT 80
LOCATION NE 1/4 SE 1/4 SEC 31 TWP 162N RGE 83W ELEVATION 1602 (FEET KB.)
PERMIT NO. 3925 ELECTRIC OR OTHER LOGS RUN? Schlumberger 7-22 19 65
NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL 1

DATA ON TEST

DATE TEST COMMENCED 8-1 1965 HOUR 6 A.M. DATE TEST COMPLETED 8-2 1965 HOUR 6 A.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 TBG. - LBS./SQ. IN. NUMBER OF STROKES PER MINUTE 14
SIZE TBG. - IN. WORKING BARRELS 2 x 1 1/2" x 12 ft. (SIZE IN.)
SIZE CHOKE - IN. TYPE CHOKE (POS. ADJ.)
SHUT IN PRESSURE - SIZE TBG 2-3/8" OD EUE IN. NO. FT. RUN 4,400'
WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICE? Yes

"PRELIMINARY POTENTIAL"

RESULT OF THIS TEST (BBL. NET OIL PER 24 HRS.) 18
GAS-OIL RATIO OF THIS WELL IS TSTM (CU. FT. OF GAS PER BBL. OF OIL)
PERCENT WATER PRODUCED DURING THIS TEST 91
GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 28.6

NAME OF PIPE LINE OR OTHER CARRIER U. S. Crude Oil Purchasing Company
IF SHOT: DATE - NO. QTS. USED -
IF PERFORATED: NO. HOLES PER FT. 5 plain shots at each interval IF ACIDIZED: NO. GALS. USED 250
GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Madison 4383 FT. to 4391 FT.
SHOOTING, PERFORATING OR TREATING COMPANY Wireline Inc. & Dowell
DATE WELL COMPLETED July 27 1965 HOUR WELL COMPLETED 9 A.M.
TOP OF PAY 4369 FT.

TOTAL DEPTH OF WELL 4417 FT.
~~PERFORATED DEPTH~~ 4415 FT.

WAS THIS WELL CORED? Yes WHAT INTERVALS? 4362 - 4417'
GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM.

CASING RECORD

Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
8-5/8"	315'	315'	300				
4-1/2"	4416'	4416'	600				

EXECUTED THIS 2 DAY OF August 1965 Amerada Petroleum Corporation
(Company or Operator)

STATE OF North Dakota
COUNTY OF Williams } ss

R. G. Fuller Disb. Superintendent
(Signature) (Title)

Before me the undersigned authority, on this day personally appeared R. 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.

Subscribed and sworn to before me this the 2 day of August 1965

C. W. VORACHEK, NOTARY PUBLIC
WILLIAMS COUNTY, NORTH DAKOTA

My Commission expires MY COMMISSION EXPIRES OCT. 12, 1968 Notary Public in and for Williams Co., North Dakota

1 E M DAVIS

State: NORTH DAKOTA
County: BOTTINEAU
Operator: AMERADA PETRO CMPNY
API: 33009008990000 IC:
Initial Class: D
Target Objective:
Final Well Class: DO
Status: OIL
Field: MOHALL
Permit: 3925 on SEP 15, 1972
3913 Abandonment Date:
Projected TD: 4500 Formation: MADISON
Hole Direction:
IP Summary: Oil Gas Water Top Form
15 BPD 174 BBL MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range: 31 162 N 83 W
Spot Code: NE SE
Footage NS, EW: 1980 FSL 659 FEL CONGRESS SECTION
Surface remark:
Principal Meridian: 5TH PRINCIPAL MRD
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:
TD: 4417 on
LTD:
PlugBack Depth: 4415
Completed: AUG 02, 1965
Formation @ TD: 352MSNC Name: MISSION CANYON /ANHY/ PORO/
Ref. Elevation: 1602 KB
KB. Elevation: 1602
Ground Elevation: 1595 GR
Contractor: HARRELL & HARRELL
Rig Release Date: Rig #

IP # 001

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil: 15 BPD Condst:
Gas: Water: 174 BBL
Interval: 4383 - 4391 GROSS Method: PUMPING
Duration of Test: 24 Hours Choke:
Oil: Gravity: GOR:
Prod Method: PERF
Perforations: Interval Cnt Type Shots/Ft Top Formation
4383 - 4383 5 FT 352MSNC MISSION CANYON /ANHY/ PORO/
4391 - 4391 5 FT 352MSNC MISSION CANYON /ANHY/ PORO/

Treatments: 1 Interval: 4383 - 4391
Fluid: ACID Type: A
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: 10 BPD Condst:
Gas: Water: 162 BBL
Interval: 4383 - 4391 GROSS Method: PUMPING
Duration of Test: 24 Hours Choke:
Oil: Gravity: GOR:
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

Treatments: 100 Interval: 4383 - 4391
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: 4364 - 4417 BHT
Choke: Top: Bottom:
Recovery: 1 240 FT SOHGCM Rec Method: PIPE
Recovery: 2 600 FT SMCO Rec Method: PIPE
Recovery: 3 180 FT O Rec Method: PIPE
Recovery: 4 240 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
2391 2382 214 511 1866 90 90
DST Test Remark: FAIR BLOW THRUOUT

Core Id: 001

Formation: 352MSNC MISSION CANYON /ANHY/ PORO/
Interval: 4362 - 4417 Rec: 50.5 FT
Core Type: CONV Show Type: BLDO
Description: 9 ANHY
1 DOLO, GREY, CRYPTO CRYST, TIGHT
14 LM, LIGHT GREY, CRYPTO CRYST, MICROGRAN, SLI DOLO
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 CRYST W/ANHY INCLUSIONS

2 LM, ALGAL, VUGGY PORO, SPOTTY OSTN, BLDG OIL
3 LM, CRYPTO CRY, TIGHT
4 LM, ALGAL, GOOD PORO, OSTN, SALTY TASTE
1/2 LM, CRYPTO CRY, 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. #	Interval	Type	Form	Sample	
Show	1	4362 - 4417	BLDO	352MSNC - 352MSNC		
Show	2	4364 - 4417	O&G	352MSNC - 352MSNC	W	
Show	3	4364 - 4417	WET	352MSNC - 352MSNC		
Porosity Zones	ID	Top -	Base Type	Quality	Form code	Thickness
	1	4362 -	4417 VUG		352MSNC	

Formations and Logs

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lithology	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,
Cores: thinly interbd w/tite li; 3' li, gry, crypto-xln, anhy incls; 2' li,
Cores: algal, vug por, sppty stn, bledg oil; 3' li, crypto-xln, tite,
Cores: 4' li, algal, gd por, oil stn, salty taste; 1/2' li, crypto-xln, poor
Cores: por, salty taste, NS; (4 1/2' lost);

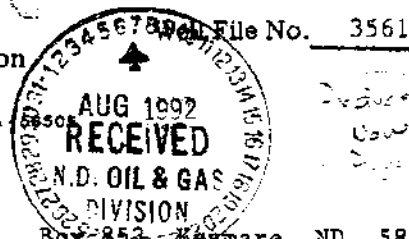
Dwights number: R8069130

Operator Address

Street or PO Box:

City:

900 EAST BOULEVARD - BISMARCK, NORTH DAKOTA



PLUGGING RECORD

NAME OF OPERATOR: Eagle Operating Inc ADDRESS: Box 853 Kenmare, ND 58746
WELL NAME AND NO.: City of Mohall #1 FIELD: Mohall COUNTY: Bottineau
LOCATION OF WELL: Qtr., SWSW Sec., 31 Twp., 162N Rge., 83W
Well is 660 feet from (N) (S) section line and 610' feet and from (E) (W) section line.
TOTAL DEPTH: 4320' ELEV.: 1602 (~~1602~~ KB)
DATE PLUGGED: July 25, 19 92 ELECTRIC OR OTHER LOGS RUN: NA
NO. OF DSTS RUN: NA (see back)
IF WELL WAS CORED, INTERVALS CORED: 4412'-4442'
IF WELL WAS FILLED WITH MUD LADEN FLUID, MUD WEIGHT: _____ lbs./gal.
NAME OF FIELD INSPECTOR PRESENT DURING PLUGGING: Mr. Jon Johnson

WELL RECORD

[illegible]

REMARKS:

Perforated 4 1/2" @ 290' cemented to surface casing annulus and left 4 1/2" casing full of cement.

GEOLOGIC MARKERS

Name	Measured Depth of Formation	True Vertical Depth
Greenhorn	2250'	-648'
Dakota	2771'	-1169'
Spearfish	3940'	-2338'
Charles	4177'	-2575'
Midale	4230'	-2628'
State "A"	4314'	-2712'
Mohall	4406'	-2804'

(COMPLETE FORM ON REVERSE SIDE)

1 CITY OF MOHALL

State: NORTH DAKOTA
County: BOTTINEAU
Operator: QUINTANA PET CORP
API: 33009007980000 IC:
Initial Class: WF
Target Objective:
Final Well Class: WFD
Status: OIL
Field: MOHALL
Permit: 3573 on SEP 15, 1972
356/
Abandonment Date:
Projected TD: 4650 Formation: MADISON
Hole Direction:
IP Summary: Oil Gas Water Top Form
40 BPD 17 BBL MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range: 31 162 N 83 W
Spot Code: SW SW
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:
TD: 4520 on
LTD:
PlugBack Depth: 4482
Completed: MAY 30, 1964
Formation @ TD: 359MDSN Name: MADISON
Ref. Elevation: 1604 KB
KB. Elevation: 1604
Ground Elevation: 1594 GR
Contractor:
Rig Release Date: Rig #

IP # 001

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil: 40 BPD
Gas: Condst:
Interval: 4418 - 4430 Water: 17 BBL
Duration of Test: Hours Method: PUMPING
Oil: Gravity: 28.6 Choke:
Prod Method: PERF GOR:
Water:
Type: SWTR Salinity: Temp:
Perforations: Interval Cnt Type Shots/Ft Top Formation
4418 - 4430 4 FT 352MSNC MISSION CANYON /ANHY/ PORO/

PI/Dwights PLUS on CD Scout Ticket

#3561

Date: 10/9/2001

Time: 11:00 AM

Treatments: 1 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
 Recovery: 1 62 FT M Rec Method: PIPE
 Recovery: 2 2108 FT O Rec Method: PIPE
 Recovery: 3 1054 FT XW Rec Method: PIPE
 Mat'ls to Surface: GAS 19
 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	2376			215	1326	2049	1967	5	240	90	90

Core Id: 001

Formation: 352MSNC MISSION CANYON /ANHY/ PORO/
 Interval: 4412 - 4442 Rec: 30 FT
 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, PELLETODAL, FAIR-GOOD PORO, GOOD OSTN
 1 ANHY
 8 LM PELLETODAL, FAIR-EXCELLENT PORO, GOOD OSTN
 1 ANHY
 6 LM, PELLETODAL, FAIR-GOOD PORO, GOOD OSTN
 2 LM, FINE CRYST, TIGHT, NO SHOW
 4 LM, PELLETODAL, FAIR-GOOD PORO, GOOD OSTN

Casing, Liner, Tubing

Casing 8 5/8 IN @ 312 w/ 200 sx
 Casing 4 1/2 IN @ 4517 w/ 150 sx
 Tubing 2 3/8 IN @ 4463 TUBING

Drilling Journal

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

Formations and Logs

	Log #	IL	AV	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lithology	Age code
Top Formation	1	@	-							
	2	@	-							
SPEARFISH				3940				LOG		469
CHARLES /SALT/				4178				LOG		353

PI/Dwights PLUS on CD Scout Ticket

#3561

Date: 10/9/2001

Time: 11:00 AM

Formations and Logs

MIDALE /ANHY/	4230	LOG	353
MISSION CANYON /ANHY/ PO	4410	LOG	352
STATE A	4314	LOG	352

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: P 67 BOPD 29.1 Grav, 3 BWPD
Perfs: 4418-4430 (Madison)
Perfs: Swbd O&SW/4 hrs; Swbd 100-120 BOPD, 4-12% SW;
Dst: #1 4402- 4442
Dst: , SI/90 min, op 4 hrs, SI/90 min, GTS 19 min, TSTM, rec 62' mud, 2108'
Dst: oil, 1054' SW, FP 215-1326#, SIP 2049-1967#, HP 2413-2376#
Dwights number: R8065610

Operator Address

Street or PO Box:

City:

State, Zip: ,

Country:

Phone:

Fax:

E-Mail:

Agent Name:

Agent Code:

Agent Remark:

**North Dakota State Industrial Commission
Oil and Gas Division**

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE



OPERATOR Monsanto Company FIELD Mohall - D
 STREET Suite 500, 700 S. Colorado Blvd. POOL Madison (Mohall)
 CITY Denver STATE Colorado 80222 COUNTY Bottleau
 LEASE NAME Wade WELL NO. 1 ACRES IN UNIT 80
 LOCATION SW NW SEC. 32 TWP. 162N RGE. 83W ELEVATION 1605 ~~XXXX~~ (M.D.)
 of Section
 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 July 28, 1981 HOUR 7 AM DATE TEST COMPLETED July 29, 1981 HOUR 7 AM
 LENGTH OF TEST 24 HOURS 0 MINUTES

FOR FLOWING WELL:**FOR PUMPING WELL:**

FLOWING PRESSURE ON CSG --- LBS./SQ IN. LENGTH OF STROKE 120 INCHES
 FLOWING PRESSURE ON TBG --- LBS./SQ IN. NUMBER OF STROKES PER MINUTE 10
 SIZE TBG --- IN. WORKING BARRELS 2 (SIZE IN.)
 SIZE CHOKE --- IN. TYPE CHOKE --- (POS. ADJ.)
 SHUT IN PRESSURE --- SIZE TBG 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 (BBL. NET OIL PER 24 HRS.) 10
 GAS-OIL RATIO OF THIS WELL IS 140 (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 0
 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: DATE --- NO. 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, 1981 HOUR WELL COMPLETED 4:00 P.M.
 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	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
8-5/8"	311'	Same	220				
5-1/2"	4422'	Same	272				

EXECUTED THIS 22nd DAY OF September 19 81 MONSANTO COMPANY
 (Company or Operator)
 STATE OF Colorado E. M. Scholl Regional Production Mgr.
 COUNTY OF Arapahoe (Signature) (Title)

Before me the undersigned authority, on this day personally appeared E. M. Scholl 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 this the 22nd day of September 19 81

My Commission expires February 23, 1985 Notary Public in and for State of Colorado
Gail Klinger
 Gail Klinger

1 WADE

State: NORTH DAKOTA
 County: BOTTINEAU
 Operator: MONSANTO CO ETAL
 API: 33009014330000 IC:
 Initial Class: D
 Target Objective:
 Final Well Class: DO
 Status: OIL
 Field: MOHALL
 Permit: 8164 on JAN 15, 1982 Abandonment Date:
 Projected TD: 4400 Formation: MADISON
 Hole Direction:
 IP Summary: Oil Gas Water Top Form
 10 BPD MOHALL

Location

Section, Twp., Range: 32 162 N 83 W
 Spot Code: SW SW NW
 Footage NS, EW: 2140 FNL 500 FWL CONGRESS SECTION
 Surface remark:
 Principal Meridian: 5TH PRINCIPAL MRD
 Lat/Long: 48.8153700 / -101.4725600 US
 PBHL:
 PHBL remark:
 ABHL:
 ABHL remark:
 ABHL: From Surface: TVD:

Dates and Depths

Spud: DEC 01, 1980 Spud Date Code:
 TD: 4432 on
 LTD:
 PlugBack Depth:
 Completed: JUL 29, 1981
 Formation @ TD: 359MDSN Name: MADISON
 Ref. Elevation: 1603 KB
 KB. Elevation: 1603
 Ground Elevation: 1592 GR
 Contractor: BOMAC EXPLORATION COMPANY
 Rig Release Date: Rig # 31

IP # 001

Top Formation: MOHALL
 Base Formation:
 Oil: 10 BPD Condst:
 Gas: Water:
 Interval: - Method: PUMPING
 Duration of Test: Hours Choke:
 Oil: Gravity: 28 GOR: 140
 Prod Method: PERF
 Perforations: Interval Cnt Type Shots/Ft Top Formation
 352MHLL MOHALL

Remarks on IP Test # 001 INT NOT RPTD

PD # 001

Top Formation: MOHALL
Base Formation: MOHALL
Oil:
Gas:
Interval: 4363 - 4368
Duration of Test: Hours
Oil: Gravity:
Prod Method: PERF
Perforations: 352MHLL MOHALL
Perf Interval: 4363 - 4368 Shots/Ft:
Type of Perfs: NOTCH Interval Perf Count:

Condst:
Water:
Method: UNDESIGNATED
Choke:
GOR:

Treatments: 100 Interval: 4363 - 4368
Fluid: 700 GAL ACID Type: A
Additive: HCL
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate:
Stages: Remarks: 15%
SQZD W/65 SX

Remarks on PT Test # 001
PD # 002

Top Formation: MOHALL
Base Formation: MOHALL
Oil:
Gas:
Interval: 4368 - 4368
Duration of Test: Hours
Oil: Gravity:
Prod Method: PERF
Perforations: 352MHLL MOHALL
Perf Interval: 4368 - 4368 Shots/Ft:
Type of Perfs: NOTCH Interval Perf Count:

Condst:
Water:
Method: UNDESIGNATED
Choke:
GOR:

Treatments: 101 Interval: 4368 - 4368
Fluid: 500 GAL ACID Type: A
Additive: HCL
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate:
Stages: Remarks: 15%
SQZD W/49 SX

Remarks on PT Test # 002
PD # 003

Top Formation: MOHALL
Base Formation: MOHALL
Oil:
Gas:
Interval: 4363 - 4363
Duration of Test: 4 Hours
Oil: Gravity:
Prod Method: PERF
Pressures: FTP: SITP:
FCP: SICP:
Perforations: 352MHLL MOHALL
Perf Interval: 4363 - 4363 Shots/Ft:
Type of Perfs: NOTCH Interval Perf Count:

Condst:
Water: 22 BBL
Method: SWABBING
Choke:
GOR:

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:02 AM

Treatments: 102 Interval: 4363 - 4363
 Fluid: 300 GAL ACID Type: A
 Additive: HCL
 Prop Agent:
 Formation Break Down Pressure:
 Average Injection Rate:
 Stages: Remarks: 15%

DST # 001

Show: S Formation: MOHALL
 Interval: 4360 - 4373 BHT
 Choke: Top: Bottom:
 Recovery: 1 90 FT HGCO Rec Method: PIPE
 Recovery: 2 93 FT GCOXW Rec Method: PIPE
 Recovery: 3 1600 CC HGCO Rec Method: SMPL CHAMBER

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
2326	2344	50	50	84	125	950	1058	15	120	60	240

Casing, Liner, Tubing

Casing 8 5/8 IN @ 311 w/ 220 sx
 Casing 5 1/2 IN @ 4432 w/ 378 sx
 Tubing 2 7/8 IN @ 4400 TUBING

Formations and Logs

Log # 1 ILDL @ 309 - 4405
 Log # 2 DN @ 309 - 4405
 Log # 3 NEC @ 309 - 4405
 Log # 4 GR @ 309 - 4405
 Log # 5 DR @ 309 - 4405
 Log # 6 AVC @ 309 - 4405

Dwights Energydata Narrative

Accumulated through 1997

Dst: #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:
 E-Mail:
 Agent Name:
 Agent Remark:

Fax:

Agent Code:

**North Dakota State Industrial Commission
Oil and Gas Division
PLUGGING RECORD**

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.)

OPERATOR Earl Schwartz Co. FIELD Mohall Field
 LEASE NAME Wade #1 WELL NO. #1 SEC. 32 TWP. 162 RGE. 83
 PERMIT NO. 5481 POOL Madison
 ELEVATION 1593 (D.F., G.R., K.B.) COUNTY Bottineau
 ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: Earl Schwartz Co.
 STREET _____ CITY Kenmare STATE North Dakota
 DATE WELL WAS PLUGGED August 6 19 74

TOTAL DEPTH 4386 ft.

ELECTRIC OR OTHER LOGS RUN? NoneWAS THIS WELL CORED? Yes IF SO, GIVE INTERVALS 4365' - 4385'

WAS THE WELL FILLED WITH MUD LADEN FLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRIAL 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	4362'
30 sks. top of Charles	4149'
30 sks. top of Spearfish	3910'
30 sks. top of Dakota	2752'
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 } ss Earl Schwartz Operator
 COUNTY OF Ward } (Signature) (Title)

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 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 this the 16th day of August 19 74

My Commission expires December 11, 1975

Donna M. Olson
 Notary Public in and for Ward County

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:02 AM**1 WADE**

State: NORTH DAKOTA
 County: ~~BOTTINEAU~~
 Operator: ~~SCHWARTZ EARL~~
 API: ~~33009041340000~~ IC:
 Initial Class: D
 Target Objective:
 Final Well Class: D
 Status: D&A-O
 Field: MOHALL
 Permit: 5481 on JAN 15, 1975
 #5469 Abandonment Date:
 Projected TD: 4400 Formation: MADISON
 Hole Direction:

Location

Section, Twp., Range: 32 162 N 83 W
 Spot Code: C SW NW
 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

Spud: AUG 01, 1974 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
 Contractor: NAKOTA
 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	ID	Top - Base	Type	Quality	Form code	Thickness
	1	4365 - 4386	POR	F	352MHLL	

Formations and Logs

PI/Dwights PLUS on CD Scout Ticket

#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		602
SPEARFISH	3910				SPL		469
CHARLES /SALT/	4149				SPL		353
MOHALL	4362				SPL		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:

Fax:

Agent Name:

Agent Code:

Agent Remark:

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

RECEIVED
MAR 23 1965

North Dakota Geological Survey

OPERATOR Amerade Petroleum Corporation FIELD Mohall
 STREET P. O. Box 1009 POOL Madison
 CITY Williston STATE North Dakota COUNTY Bottineau
 LEASE NAME Mohall Park WELL NO. 1 ACRES IN UNIT 80
 LOCATION NE 1/4 SW 1/4 SEC 31 TWP 162N RGE 83W ELEVATION 1595 (XEROX KB.)
1/4 of 1/4 Section Schlumberger March 16
 PERMIT NO. 3840 ELECTRIC OR OTHER LOGS RUN? Wireline Inc. March 19 1965
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL 1

DATA ON TEST

DATE TEST COMMENCED 3-25 1965 HOUR PM DATE TEST COMPLETED 3-26 1965 HOUR 7 AM
 LENGTH OF TEST 15 HOURS 30 MINUTES

FOR FLOWING WELL: FLOWING PRESSURE ON CSG. LBS./SQ. IN. LENGTH OF STROKE 54 INCHES
 FLOWING PRESSURE ON TBG. LBS./SQ. IN. NUMBER OF STROKES PER MINUTE 14
 SIZE TBG. IN. WORKING BARRELS 2 x 1 1/2" x 12' (SIZE IN.)
 SIZE CHOKE IN. TYPE CHOKE (POS. ADJ.)
 SHUT IN PRESSURE SIZE TBG. 2-3/8" OD BLUE IN. NO. FT. RUN 4419'
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR
 OTHER ARTIFICIAL DEVICE? NO "Preliminary Potential Test"

RESULT OF THIS TEST (BBLs. NET OIL PER 24 HRS.) 115
 GAS-OIL RATIO OF THIS WELL IS TEST (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 4.2
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 29.1

NAME OF PIPE LINE OR OTHER CARRIER U. S. Crude Oil Purchasing Company
 IF SHOT: DATE NO. QTS. USED
 IF PERFORATED: NO. HOLES PER FT. 2 IF ACIDIZED: NO. GALS. USED 250 gals. Mud acid
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Mission Canyon FROM 4408 FT. TO 4420 FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Wireline, Inc. and Dowell, Inc.
 DATE WELL COMPLETED March 21 1965 HOUR WELL COMPLETED 2 PM.
 TOP OF PAY 4408 FT.

TOTAL DEPTH OF WELL 4427 FT.
 PLUG BACK DEPTH 4424 FT.

WAS THIS WELL CORED? Yes WHAT INTERVALS? 4394 - 4427'
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM.

CASING RECORD

Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
8-5/8"	312	312	300				
4-1/2"	4426	4426	420				

EXECUTED THIS 26 DAY OF March 1965 Amerade Petroleum Corporation
 (Company or Operator)
 STATE OF North Dakota Dist. Superintendent
 COUNTY OF Williams (Signature) (Title)

Before me the undersigned authority, on this day personally appeared R. 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.

Subscribed and sworn to before me this the 26 day of March 1965
Cliff Vorachek

My Commission expires C. W. VORACHEK, NOTARY PUBLIC
WILLIAMS COUNTY, NORTH DAKOTA Notary Public in and for Williams Co., North Dakota
 MY COMMISSION EXPIRES OCT. 12, 1965.

1 MOHALL PARK

State: NORTH DAKOTA
County: BOTTINEAU
Operator: AMERADA HESS CORP
API: 33009008710000 IC:
Initial Class: D
Target Objective:
Final Well Class: DO
Status: OIL
Field: MOHALL
Permit: 3840 on SEP 15, 1972
3828 Abandonment Date:
Projected TD: 4500 Formation: MISSION CANYON /ANHY/ PORO/
Hole Direction:
IP Summary: Oil Gas Water Top Form
100 BPD 16 BBL MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range: 31 162 N 83 W
Spot Code: NE SW
Footage NS, EW: 1977 FSL 1875 FWL CONGRESS SECTION
Surface remark:
Principal Meridian: 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:
TD: 4427 on
LTD:
PlugBack Depth:
Completed: MAR 21, 1965
Formation @ TD: 352MSNC Name: MISSION CANYON /ANHY/ PORO/
Ref. Elevation: 1595 KB
KB. Elevation: 1595
Ground Elevation: 1587 GR
Contractor: HARRELL & HARRELL
Rig Release Date: Rig #

IP # 001

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil: 100 BPD
Gas:
Interval: 4408 - 4420
Duration of Test: 24 Hours
Oil: Gravity: 28.7
Prod Method: PERF
Perforations: Interval Cnt Type Shots/Ft Top Formation
4408 - 4420 JET 2 FT 352MSNC MISSION CANYON /ANHY/ PORO/
Condst:
Water: 16 BBL
Method: PUMPING
Choke:
GOR: 22

Treatments: 1 Interval: 4408 - 4420

PD # 001

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

Top Formation: MISSION CANYON /ANHY/ PORO/
 Base Formation: MISSION CANYON /ANHY/ PORO/
 Oil: 73 BPD
 Gas:
 Interval: 4408 - 4420
 Duration of Test: 24 Hours
 Oil: Gravity:
 Prod Method: PERF
 Pressures: FTP: SITP:
 FCP: SICP:
 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:

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

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 CRYST, FAIR PORO, GOOD OSTN
 4 LM, DENSE, TIGHT
 15 LM, ALGAL, PISOLITIC, VUG & INTERFRAG PORO, OSTN
 3 DOLO, MICRO CRYST, VUG PORO, NO SHOW
 3.4 LM, MICRO CRYST, POOR VUG PORO, POOR OSTN
 1.6 NO RECOVERY

Casing, Liner, Tubing

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

Drilling Journal

	Obs. #	Interval	Type	Form	Sample
Show	1	4394 - 4427	O&G	352MSNC - 352MSNC	
Show	2	4394 - 4427	WET	352MSNC - 352MSNC	
Porosity Zones	ID	Top -	Base Type	Quality	Form code Thickness
	1	4394 -	4427 VUG		352MSNC

Formations and Logs

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lithology	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

IP: Madison: P 115 BOPD 29.1 Grav, 5 BWPD
 Perfs: 4408-4420 (Madison)
 Perfs: /2; A/250 GMCA; S/73 BO/7 hrs;
 Dst: #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#
 Cores: #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: lost);
 Dwights number: R8068280

Operator Address

Street or PO Box:

City:

State, Zip: ,

Country:

Phone:

Fax:

E-Mail:

Agent Name:

Agent Code:

Agent Remark:



Industrial Commission
of the State of North Dakota

SEE INSTRUCTIONS ON
OTHER SIDE

FORM 4

Refer to Permit No. 3843

SUNDRY NOTICES AND REPORTS ON WELLS

3831

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. Notice to Change Well Name and Status	X
6. Report of Shooting or Acidizing		12.	

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

NAME OF LEASE Mohall SWD Date June 10 19 65
WELL NO. 1 is located 1980 ft. from (N) (S) line and 660 ft. from the (E) (W) line of
Section 36 Township 162-N Range 84-W in Renville County
Mohall Field _____ Pool. The elevation of the KB is 1615 feet above sea level.

Name and Address of Contractor, or Company which will do work is:

(DETAILS OF WORK)

(State names of, and expected depth of objective sands; show sizes, 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
Address Box 1009 - Williston, North Dakota
By R. G. Fuller R. G. Fuller
Title District Superintendent

Do not write in this space
Approved June 11 19 65
By [Signature]
Title _____

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 10:54 AM**1 MOHALL SWD-1**

State: NORTH DAKOTA
 County: RENVILLE
 Operator: AMERADA PETRO CMPNY
 API: 33075002920000 IC:
 Initial Class: D
 Target Objective:
 Final Well Class: U
 Status: SERVOG
 Field: MOHALL
 Permit: 3843 on SEP 15, 1972
 #3831 Abandonment Date:
 Projected TD: 4500 Formation: MISSION CANYON /ANHY/ PORO/
 Hole Direction:

Location

Section, Twp., Range: 36 162 N 84 W
 Spot Code: C NE SE
 Footage NS, EW: 1980 FSL 660 FEL CONGRESS SECTION
 Surface remark:
 Principal Meridian: 5TH PRINCIPAL MRD
 Lat/Long: 48.8122100 / -101.4989100 US
 PBHL:
 PHBL remark:
 ABHL:
 ABHL remark:
 ABHL: From Surface: TVD:

Dates and Depths

Spud: MAR 20, 1965 Spud Date Code:
 TD: 4480 on
 LTD:
 PlugBack Depth:
 Completed: JUN 15, 1965
 Formation @ TD: 352MSNC Name: MISSION CANYON /ANHY/ PORO/
 Ref. Elevation: 1617 KB
 KB. Elevation: 1617
 Ground Elevation: 1608 GR
 Contractor: HARRELL & HARRELL
 Rig Release Date: Rig #

DST # 001

Show: Formation: PIPER /LM/ SD/ SH/
 Interval: 3750 - 3767 BHT
 Choke: Top: Bottom:
 Recovery: 1 150 FT M 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
1858	1852			76	102		1417		60		30

DST # 002

Show: S Formation: MISSION CANYON /ANHY/ PORO/
 Interval: 4435 - 4446 BHT
 Choke: Top: Bottom:

PI/Dwights PLUS on CD Scout Ticket

3831

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

Recovery:	1	60	FT	SGCM	Rec Method: PIPE
Recovery:	2	90	FT	SG&OCM	Rec Method: PIPE
Recovery:	3	165	FT	G&OCM	Rec Method: PIPE
Recovery:	4	15	FT	W	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
2400	2406			20	142		1962		90		90

DST # 003

Show: S Formation: MISSION CANYON /ANHY/ PORO/
Interval: 4446 - 4456 BHT
Choke: Top: Bottom:
Recovery: 1 225 FT SO&GCM Rec Method: PIPE
Recovery: 2 855 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
2350	2350			43	518		1989		90		90

Casing, Liner, Tubing

Casing 8 5/8 IN @ 314 w/ 250 sx
Casing 4 1/2 IN @ 3000 w/ 600 sx

Drilling Journal

	Obs. #	Interval	Type	Form	Sample
Show	2	4435 - 4446	WET	352MSNC - 352MSNC	
Show	1	4435 - 4456	O&G	352MSNC - 352MSNC	

Formations and Logs

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith-ology	Age code
GREENHORN	2269				LOG		603
DAKOTA	2788				LOG		602
PIPER /LM/ SD/ SH/	3682				LOG		552
SPEARFISH	3952				LOG		469
CHARLES /SALT/	4198				LOG		353
MIDALE /ANHY/	4250				LOG		353
MISSION CANYON /ANHY/ PO	4432				LOG		352

Dwights Energydata Narrative

Accumulated through 1997

Dst: #1 3750- 3767
 Dst: , op 1 hr, SI/30 min, rec 150' mud, 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



WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

OPERATOR Amerada Petroleum Corporation FIELD McCall
 STREET P. O. Box 1009 POOL Madison
 CITY Williston STATE North Dakota COUNTY Bottineau
 LEASE NAME Ivan Gehringer Tract 1 WELL NO. 1 ACRES IN UNIT 160
 LOCATION SW/4 NE/4 SEC. 31 TWP. 162N RGE. R3W ELEVATION 1606 (MPPK, KB.)
 PERMIT NO. 3860 ELECTRIC OR OTHER LOGS RUN? Schlumberger April 9 1965
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL 1

DATA ON TEST

DATE TEST COMMENCED April 24 1965 HOUR 4 P. DATE TEST COMPLETED April 24 1965 HOUR 4 P.
 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 TBG. _____ LBS./SQ. IN. NUMBER OF STROKES PER MINUTE 14
 SIZE TBG. _____ IN. WORKING BARRELS 2" x 1 1/2" x 12' (SIZE IN.)
 SIZE CHOKE _____ IN. TYPE CHOKE _____ (POS. ADJ.)
 SHUT IN PRESSURE _____ SIZE TBG. 2-3/8" 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 (BBL. NET OIL PER 24 HRS.) 60
 GAS-OIL RATIO OF THIS WELL IS 1500 (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 56
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 26.9

NAME OF PIPE LINE OR OTHER CARRIER U. S. Crude Oil Purchasing Company
 IF SHOT: DATE _____ NO. QTS. USED _____
 IF PERFORATED: NO. HOLES PER FT. 2 IF ACIDIZED: NO. GALS. USED 250
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Mission Canyon FROM 4395 FT. TO 4411 1/2 FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Iane Wells, Dowell Inc.
 DATE WELL COMPLETED April 11 1965 HOUR WELL COMPLETED 9:00 P.M.
 TOP OF PAY 4395 1/2 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 Ft. In.	Left in Well Ft. In.	No. Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
6-5/8"	670	670	400				
4-1/2"	4419	4419	600				

EXECUTED THIS 27 DAY OF April 1965 Amerada Petroleum Corporation
 (Company or Operator)

STATE OF North Dakota
 COUNTY OF Williams

[Signature] District Superintendent
 (Signature) (Title)

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 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 this the 27 day of April 1965
[Signature]

My Commission expires C. W. YORACHEK, NOTARY PUBLIC Notary Public in and for Williams Co., North Dakota
 WILLIAMS COUNTY, NORTH DAKOTA
 MY COMMISSION EXPIRES OCT. 12, 1969

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: MOHALL
Permit: 3860 on SEP 15, 1972
3848 Abandonment Date:
Projected TD: 4500 Formation: MADISON
Hole Direction:
IP Summary: Oil Gas Water Top Form
60 BPD 75 BBL MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range: 31 162 N 83 W
Spot Code: SW NE
Footage NS, EW: 1980 FNL 1980 FEL CONGRESS SECTION
Surface remark:
Principal Meridian: 5TH PRINCIPAL MRD
Lat/Long: 48.8158100 / -101.4828500 US
PBHL:
PHBL remark:
ABHL:
ABHL remark:
ABHL: From Surface: TVD:

Dates and Depths

Spud: APR 02, 1965 Spud Date Code:
TD: 4420 on
LTD:
PlugBack Depth:
Completed: APR 11, 1965
Formation @ TD: 359MDSN Name: MADISON
Ref. Elevation: 1606 KB
KB. Elevation: 1606
Ground Elevation: 1597 GR
Contractor: HARRELL & HARRELL
Rig Release Date: Rig #

IP # 001

Top Formation: MISSION CANYON /ANHY/ PORO/
Base Formation: MISSION CANYON /ANHY/ PORO/
Oil: 60 BPD Condst:
Gas: Water: 75 BBL
Interval: 4396 - 4412 Method: PUMPING
Duration of Test: Hours Choke:
Oil: Gravity: 28.9 GOR:
Prod Method: PERF
Perforations: Interval Cnt Type Shots/Ft Top Formation
4396 - 4412 2 FT 352MSNC MISSION CANYON /ANHY/ PORO/

Treatments: 1 Interval: 4396 - 4412

PD # 001

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

Top Formation: MISSION CANYON /ANHY/ PORO/
 Base Formation: MISSION CANYON /ANHY/ PORO/
 Oil: 60 BPD
 Gas:
 Interval: 4396 - 4412
 Duration of Test: 24 Hours
 Oil: Gravity:
 Prod Method: PERF
 Pressures: FTP: SITP:
 FCP: SICP:
 Perforations: 352MSNC MISSION CANYON /ANHY/ PORO/
 Perf Interval: 4396 - 4412 Shots/Ft: 2

Condst:
 Water: 75 BBL
 Method: PUMPING
 Choke:
 GOR:

Treatments: 100 Interval: 4396 - 4412
 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: 4378 - 4410 BHT
 Choke: Top: Bottom:
 Recovery: 1 90 FT HGCM Rec Method: PIPE
 Recovery: 2 270 FT G&OCM Rec Method: PIPE
 Recovery: 3 90 FT MCO Rec Method: PIPE
 Recovery: 4 328 FT O Rec Method: PIPE
 Mat'ls to Surface: GAS 75

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
2387	2362			36	311		1824		90		90

Casing, Liner, Tubing

Casing 8 5/8 IN @ 670 w/ 400 sx
 Casing 4 1/2 IN @ 4419 w/ 650 sx

Drilling Journal

Obs. #	Interval	Type	Form	Sample
Show 1	4378 - 4410	O&G	352MSNC - 352MSNC	

Formations and Logs

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lithology	Age code
GREENHORN	2223				LOG		603
DAKOTA	2744				LOG		602

PI/Dwights PLUS on CD Scout Ticket

#3848

Date: 10/9/2001

Time: 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, rec 90' GCM, 270' OCM, 90' MCO, 328'
Dst: oil,FP 36-311#, SIP 1824#, HP 2387-2362#
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:

North Dakota State Industrial Commission
Oil and Gas DivisionRECEIVED
MAY - 3 1955
North Dakota Geological Survey
GRAND FORK, N. DAK.

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

#3849
5783

OPERATOR Amerada Petroleum Corporation FIELD Mohall
 STREET Box 1009 POOL Madison
 CITY Williston STATE North Dakota COUNTY Bottineau
 LEASE NAME Ivan Gehring Tr-2 WELL NO. 1 ACRES IN UNIT 73.25
 LOCATION SW 1/4 NW 1/4 SEC 31 TWP 162N RCE 83W ELEVATION 1596 (W/1/4 KB.)
 PERMIT NO. 3861 ELECTRIC OR OTHER LOGS RUN? Schlumberger 4-21
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE INCLUDING THIS WELL 1 19 65

DATA ON TEST

DATE TEST COMMENCED 4-28 19 65 HOUR 4 P.M. DATE TEST COMPLETED 4-29 19 65 HOUR 4 P.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 TBG. LBS./SQ. IN. NUMBER OF STROKES PER MINUTE 15
 SIZE TBG. IN. WORKING BARRELS 2" x 1 1/2" x 12' (SIZE IN.)
 SIZE CHOKE IN. TYPE CHOKE (POS. ADJ.)
 SHUT IN PRESSURE SIZE TBG 2-3/8" OD IN. NO. FT. RUN 4418
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR
 OTHER ARTIFICIAL DEVICE? Yes

" PRELIMINARY POTENTIAL TEST "

RESULT OF THIS TEST (BBL. NET OIL PER 24 HRS.) 150
 GAS-OIL RATIO OF THIS WELL IS 120 (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 5
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 23.6

NAME OF PIPE LINE OR OTHER CARRIER W. S. Oil Purchasing Company
 IF SHOT: DATE NO. QTS. USED
 IF PERFORATED: NO. HOLES PER FT. 2 IF ACIDIZED: NO. GALS. USED 250 HDA
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Mission Canyon FROM 4406 FT. TO 4418 FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Wireline, Inc. & Dowell
 DATE WELL COMPLETED 4-26 19 65 HOUR WELL COMPLETED 12 Noon M.
 TOP OF PAY 4405' FT.

TOTAL DEPTH OF WELL 4421 FT.
~~4421/4421/4421/4421~~ DOD 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 Ft. In.	Left in Well Ft. In.	No. Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
8-5/8"	328	328	250				
4-1/2"	4420	4420	600				

EXECUTED THIS 30th DAY OF April 19 65 AMERADA PETROLEUM CORPORATION
 (Company or Operator)

STATE OF North Dakota
 COUNTY OF Williams

R. G. Fuller Dist. Supt.
 (Signature) (Title)

Before me the undersigned authority, on this day personally appeared R. 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.

Subscribed and sworn to before me this 30th day of April 19 65

My Commission expires

Notary Public in and for C. W. VORACHEN, NOTARY PUBLIC
 WILLIAMS COUNTY, NORTH DAKOTA
 MY COMMISSION EXPIRES OCT. 12, 1959

1 GEHRINGER TRACT 2

State: NORTH DAKOTA
County: BOTTINEAU
Operator: AMERADA PETRO CMPNY
API: 33009008770000
Initial Class: D IC:
Target Objective:
Final Well Class: DO
Status: OIL
Field: MOHALL
Permit: 3861 on SEP 15, 1972
3849
Projected TD: 4500 Formation: MADISON
Hole Direction:
IP Summary: Oil Gas Water Top Form
150 BPD 8 BBL MADISON

Abandonment Date:

Location

Section, Twp., Range: 31 162 N 83 W
Spot Code: SW NW
Footage NS, EW: 1976 FNL 606 FWL CONGRESS SECTION
Surface remark:
Principal Meridian: 5TH PRINCIPAL MRD
Lat/Long: 48.8158200 / -101.4936600 US
PBHL:
PHBL remark:
ABHL:
ABHL remark:
ABHL: From Surface: TVD:

Dates and Depths

Spud: APR 14, 1965 Spud Date Code:
TD: 4421 on
LTD:
PlugBack Depth:
Completed: APR 26, 1965
Formation @ TD: 359MDSN Name: MADISON
Ref. Elevation: 1596 KB
KB. Elevation: 1596
Ground Elevation: 1587 GR
Contractor: HARRELL & HARRELL
Rig Release Date: Rig #

IP # 001

Top Formation: MADISON
Base Formation: MADISON
Oil: 150 BPD
Gas:
Interval: 4406 - 4418
Duration of Test: Hours
Oil: Gravity:
Prod Method: PERF
Perforations: Interval Cnt Type Shots/Ft Top Formation
4406 - 4418 2 FT 359MDSN MADISON
Condst:
Water: 8 BBL
Method: PUMPING
Choke:
GOR:

Treatments: 1 Interval: 4406 - 4418

PD # 001

Fluid: ACID Type: A
Additive:
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate:
Stages: Remarks:
Top Formation: MADISON
Base Formation: MADISON
Oil: 88 BBL
Gas:
Interval: 4406 - 4418
Duration of Test: 17 Hours
Oil: Gravity:
Prod Method: PERF
Pressures: FTP: SITP:
FCP: SICP:
Perforations: 359MDSN MADISON
Perf Interval: 4406 - 4418 Shots/Ft: 2
Condst:
Water:
Method: FLOWING
Choke:
GOR:

Treatments: 100 Interval: 4406 - 4418
Fluid: 250 GAL ACID Type: A
Additive:
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate:
Stages: Remarks:
Remarks on PT Test # 001 SWBD AND FLOWED

DST # 001

Show: S Formation: MADISON
Interval: 4405 - 4421 BHT
Choke: Top: Bottom:
Recovery: 1 180 FT MCO Rec Method: PIPE
Recovery: 2 948 FT O Rec Method: PIPE
Recovery: 3 5 FT W Rec Method: PIPE
Mat'ls to Surface: GAS 20
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
2371 2371 43 410 1947 90 90

Casing, Liner, Tubing

Casing 8 5/8 IN @ 328 w/ 250 sx
Casing 4 1/2 IN @ 4420 w/ 600 sx

Drilling Journal

Show	Obs. #	Interval	Type	Form	Sample
	1	4405 - 4421	O&G	359MDSN - 359MDSN	

Formations and Logs

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith-ology	Age code
GREENHORN	2247				LOG		603
PIPER /LM/ SD/ SH/	3653				LOG		552

Formations and Logs

SPEARFISH	3926	LOG	469
CHARLES /SALT/	4170	LOG	353
MIDALE /ANHY/	4228	LOG	353
MISSION CANYON /ANHY/ PO	4406	LOG	352

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: P 150 BOPD 23.6 Grav, 8 BWPD GOR 120:1
Perfs: 4406-4418 (Madison)
Perfs: /2; A/250 GBDA;
Dst: #1 4405- 4421
Dst: , op 1 1/2 hrs, SI/1 1/2 hrs, GTS 20 min, rec 180' MCO, 948' oil, 5'
Dst: SW, FP 43-410#, SIP 1947#, HP 2371-2371#
Cores: None
Dwights number: R8068490

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

E-Mail:

Agent Name:

Agent Remark:

Fax:

Agent Code:

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

OPERATOR Earl Schwartz Co. FIELD Yohall
 STREET _____ POOL Madison
 CITY Kenmare STATE North Dakota COUNTY Ward
 LEASE NAME Gehring #3 WELL NO. #3 ACRES IN UNIT 80
 LOCATION NE NE SEC 31 TWP 162 RGE 83 ELEVATION 1596 (DF. or. KB.)
 PERMIT NO. 5337 ELECTRIC OR OTHER LOGS RUN None 19____
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE INCLUDING THIS WELL Four

DATA ON TEST

DATE TEST COMMENCED 7/19 1974 HOUR 8A M. DATE TEST COMPLETED 7/20 1974 HOUR 8A M.
 LENGTH OF TEST _____ HOURS _____ MINUTES

FOR FLOWING WELL:

FLOWING PRESSURE ON CSG _____ LBS. SQ. IN. LENGTH OF STROKE 64 INCHES
 FLOWING PRESSURE ON TBG _____ LBS. SQ. IN. NUMBER OF STROKES PER MINUTE 9
 SIZE TBG 2 3/8 IN. WORKING BARRELS _____ SIZE IN.
 SIZE CHOKE _____ IN. TYPE CHOKE _____ (POS. ADJ.)
 SHUT IN PRESSURE _____ SIZE TBG 2 3/8 IN. NO. FT. RUN _____
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR
 OTHER ARTIFICIAL DEVICE: _____

FOR PUMPING WELL:

RESULT OF THIS TEST (BBL. NET OIL PER 24 HRS.) 22
 GAS-OIL RATIO OF THIS WELL IS _____ (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 20%
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° API) 28

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 ACIDIZED: NO. GALS. USED 300 gal. BDA 1,000 gal.
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED _____ FROM _____ FT. TO 845 FT. Acid
 SHOOTING, PERFORATING OR TREATING COMPANY Open hole
 DATE WELL COMPLETED 7/10 19 74 HOUR WELL COMPLETED _____ M.
 TOP OF PAY 4366 to 4379 FT.

TOTAL DEPTH OF WELL 4379 FT.
 PLUG BACK DEPTH None FT.

WAS THIS WELL CORED? Yes WHAT INTERVALS: 4366 to 4379
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM.

CASING RECORD

Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
4 1/2	4358'	4358'	275sks.				

EXECUTED THIS 16 DAY OF August 19 74 Earl Schwartz Co.
 (Company or Operator)
 STATE OF North Dakota Earl Schwartz Operator
 COUNTY OF Ward (Signature) (Title)

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 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 this 16 day of August 19 74

Donna M. Olson
 Donna M. Olson

My Commission expires December 11, 1975 Notary Public in and for Ward County

3 IVAN GEHRINGER

State: NORTH DAKOTA
 County: BOTTINEAU
 Operator: SCHWARTZ EARL
 API: 33009011130000 IC:
 Initial Class: D
 Target Objective:
 Final Well Class: DO
 Status: OIL
 Field: MOHALL
 Permit: 5337 on JAN 15, 1975

Abandonment Date:

Projected TD: 4480 Formation: MADISON

Hole Direction:

IP Summary: Oil Gas Water Top Form
 22 BPD 4 BBL MISSISSIPPIAN

Location

Section, Twp., Range: 31 162 N 83 W
 Spot Code: C NE NE
 Footage NS, EW: 660 FNL 660 FEL CONGRESS SECTION
 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: 4379 on
 LTD:
 PlugBack Depth:
 Completed: JUL 20, 1974
 Formation @ TD: 359MDSN Name: MADISON
 Ref. Elevation: 1596 KB
 KB. Elevation: 1596
 Ground Elevation:
 Contractor: NAKOTA
 Rig Release Date: Rig #

IP # 001

Top Formation: MISSISSIPPIAN
 Base Formation: MISSISSIPPIAN
 Oil: 22 BPD
 Gas:
 Interval: 4358 - 4379
 Duration of Test: Hours
 Oil: Gravity: 28
 Prod Method: OPENHOLE
 Perforations: Interval Cnt Type Shots/Ft Top Formation
 4358 - 4379 359MSSP MISSISSIPPIAN

Condst:
 Water: 4 BBL
 Method: PUMPING
 Choke:
 GOR:

Treatments: 1 Interval: 4358 - 4379

PI/Dwights PLUS on CD Scout Ticket

#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: Fax:
E-Mail:
Agent Name: Agent Code:
Agent Remark:

5378

FORM 6

North Dakota State Industrial Commission
Oil and Gas Division

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

OPERATOR Earl Schwartz Co. FIELD Mohall
 STREET _____ POOL Madison
 CITY Kenmare STATE North Dakota COUNTY Bottineau
 LEASE NAME Gehringer WELL NO. #4 ACRES IN UNIT 80
 LOCATION NE/NW SEC. 31 TWP. 162 RGE. 83 ELEVATION 1,600' (DF. or, KB.)
 PERMIT NO. 5390 ELECTRIC OR OTHER LOGS RUN? None 19____
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL three

DATA ON TEST

DATE TEST COMMENCED Dec. 15 1973 HOUR 8A M. DATE TEST COMPLETED Dec. 16 1973 HOUR ____ M.
 LENGTH OF TEST _____ HOURS _____ MINUTES.

FOR FLOWING WELL:

FOR PUMPING WELL:

FLOWING PRESSURE ON CSG _____ LBS./SQ. IN. LENGTH OF STROKE 54 INCHES
 FLOWING PRESSURE ON TBG _____ LBS./SQ. IN. NUMBER OF STROKES PER MINUTE 9
 SIZE TBG 2 3/8 IN. WORKING BARRELS _____ (SIZE IN.)
 SIZE CHOKE _____ IN. TYPE CHOKE (POS.ADJ.) _____
 SHUT IN PRESSURE _____ SIZE TBG 2 3/8 IN. NO. FT. RUN _____

WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICE? Set surface 320', 8 5/8 casing ENTER FIELD

RESULT OF THIS TEST (BBL. NET OIL PER 24 HRS.) 17
 GAS-OIL RATIO OF THIS WELL IS _____ (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 20%
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 28

NAME OF PIPE LINE OR OTHER CARRIER Portal Pipe line
 IF SHOT: DATE Open hole NO. QTS. USED _____
 IF PERFORATED: NO. HOLES PER FT. _____ IF ACIDIZED: NO. GALS. USED 300 gal. BDA 15% Acid
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED _____ FROM _____ FT. TO _____ FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Open hole
 DATE WELL COMPLETED Dec. 15 1973 HOUR WELL COMPLETED _____ M.
 TOP OF PAY 4301 - 4404 FT.

TOTAL DEPTH OF WELL 4404 FT.
 PLUG BACK DEPTH None FT.

WAS THIS WELL CORED? Yes WHAT INTERVALS? 4391 - 4404
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM.

CASING RECORD

Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
<u>4 1/2</u>	<u>4380'</u>	<u>4380'</u>	<u>250 sks.</u>				
<u>Set surface 320', 8 5/8 casing</u>							

EXECUTED THIS 6th DAY OF September 1974 Earl Schwartz Co.
 STATE OF North Dakota (Company or Operator)
 COUNTY OF Ward (Signature) Earl Schwartz (Title)
 Before me the undersigned authority, on this day personally appeared _____ 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.

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:01 AM**4 GEHRINGER**

State: NORTH DAKOTA
 County: BOTTINEAU
 Operator: SCHWARTZ EARL
 API: 33009011250000 IC:
 Initial Class: D
 Target Objective:
 Final Well Class: DO
 Status: OIL
 Field: MOHALL
 Permit: 5390 on MAR 15, 1974
 # 5378 Abandonment Date:
 Projected TD: 4480 Formation: MADISON
 Hole Direction:
 IP Summary: Oil Gas Water Top Form
 30 BPD MISSION CANYON /ANHY/ PORO/

Location

Section, Twp., Range: 31 162 N 83 W
 Spot Code: W2 NE NW
 Footage NS, EW: 660 FNL 820 FEL CONGRESS QTR
 Surface remark:
 Principal Meridian: 5TH PRINCIPAL MRD
 Lat/Long: 48.8194300 / -101.4888500 US
 PBHL:
 PHBL remark:
 ABHL:
 ABHL remark:
 ABHL: From Surface: TVD:
 Location Narrative: Type Remark
 SCALED_FOOT REGULATORY
 IRREG_SECT N

Dates and Depths

Spud: NOV 18, 1973 Spud Date Code:
 TD: 4419 on
 LTD:
 PlugBack Depth:
 Completed: JAN 20, 1974
 Formation @ TD: 352MSNC Name: MISSION CANYON /ANHY/ PORO/
 Ref. Elevation: 1600 KB
 KB. Elevation: 1600
 Ground Elevation:
 Contractor: STAR
 Rig Release Date: Rig #

IP # 001

Top Formation: MISSION CANYON /ANHY/ PORO/
 Base Formation: MISSION CANYON /ANHY/ PORO/
 Oil: 30 BPD Condst:
 Gas: Water:
 Interval: 4380 - 4419 Method: PUMPING
 Duration of Test: Hours Choke:
 Oil: Gravity: 27.5 GOR:
 Prod Method: OPENHOLE
 Perforations: Interval Cnt Type Shots/Ft Top Formation

PI/Dwights PLUS on CD Scout Ticket

#5378

Date: 10/9/2001

Time: 11:01 AM

4380 -

4419

352MSNC

MISSION CANYON /ANHY/ PORO

Treatments:

1

Interval: 4380 - 4419

Fluid:

ACID

Type: A

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:

17 BBL

Gas:

Condst:

Water:

Interval:

4380 - 4419

Method: SWABBING

Duration of Test:

8 Hours

Choke:

Oil:

Gravity:

GOR:

Prod Method:

OPENHOLE

Pressures:

FTP:

SITP:

FCP:

SICP:

Perforations:

352MSNC

MISSION CANYON /ANHY/ PORO/

Perf Interval:

4380 - 4419

Shots/Ft:

Treatments:

100

Interval: 4380 - 4419

Fluid: 300 GAL

ACID

Type: A

Additive:

Prop Agent:

Formation Break Down Pressure:

Average Injection Rate:

Stages: Remarks:

PD # 002

Top Formation:

MISSION CANYON /ANHY/ PORO/

Base Formation:

MISSION CANYON /ANHY/ PORO/

Oil:

24 BPD

Condst:

Water:

Gas:

Interval:

4380 - 4419

Method: PUMPING

Duration of Test:

Hours

Choke:

Oil:

Gravity:

GOR:

Prod Method:

OPENHOLE

Perforations:

352MSNC

MISSION CANYON /ANHY/ PORO/

Perf Interval:

4380 - 4419

Shots/Ft:

Core Id: 001

Formation:

352MSNC MISSION CANYON /ANHY/ PORO/

Interval:

4391 - 4419

Rec: 28

FT

Core Type:

CONV

Show Type: OIL

Description:

5 LM, GOOD P&P, OSTN

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

15 LM, ANHY

Casing, Liner, Tubing

Casing

8 5/8 IN @

320 w/

250 sx

Casing

5 1/2 IN @

4380 w/

sx

Drilling Journal

Obs. #

Interval

Type

Form

Sample

PI/Dwights PLUS on CD Scout Ticket

#5378

Date: 10/9/2001

Time: 11:01 AM

Drilling Journal

Show	1	4391 - 4396	OSTN			352MSNC - 352MSNC		
Show	2	4396 - 4404	OIL			352MSNC - 352MSNC		
Porosity Zones	ID	Top	-	Base	Type	Quality	Form code	Thickness
	1	4391	-	4396	POR	G	352MSNC	
	2	4396	-	4404	POR	P	352MSNC	

Formations and Logs

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

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: P 17 BOPD 28.0 Grav, 4 BWPD
Perfs: 4301-4404 (Madison)
Perfs: acid w/300 gal BDA 15%
Cores: 4391- 4404
Dwights number: R8083780

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

OPERATOR Chandler & Associates, Inc. FIELD McHall
 STREET 1401 Denver Club Bldg. POOL Madison
 CITY Denver STATE Colo. COUNTY Renville
 LEASE NAME Erickson State WELL NO. 1-36 ACRES IN UNIT 80
 LOCATION NE NE SEC. 36 TWP. 162N RGE. 84W ELEVATION 1603 (XXXXX KD)
 PERMIT NO. 5198 ELECTRIC OR OTHER LOGS RUN Gamma Ray July 11, 1972
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL 1

DATA ON TEST

DATE TEST COMMENCED 8-12 1972 HOUR 7 a.m. DATE TEST COMPLETED 8-13 1972 HOUR 7 a.m.
 LENGTH OF TEST 24 HOURS 3 MINUTES

FOR FLOWING WELL:

FLOWING PRESSURE ON CSD _____ LBS./SQ. IN. LENGTH OF STROKE 44 INCHES
 FLOWING PRESSURE ON TBO _____ LBS./SQ. IN. NUMBER OF STROKES PER MINUTE 14
 SIZE TBO _____ IN. WORKING BARRELS 1 3/4 SIZE IN.
 SIZE CHOKER _____ IN. TYPE CHOKER _____ POS. ADJ. _____
 SHUT IN PRESSURE 20* SIZE TBO 2 7/8 EUE IN. NO. FT. RUN 4399
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR
 OTHER ARTIFICIAL DEVICES? _____

FOR PUMPING WELL:

RESULT OF THIS TEST BBLs. NET OIL PER 24 HRS. 33
 GAS-OIL RATIO OF THIS WELL IS 156 CU. FT. OF GAS PER BBL. OF OIL
 PERCENT WATER PRODUCED DURING THIS TEST 15%
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° API) 29.5

NAME OF PIPE LINE OR OTHER CARRIER Koch Oil Company
 IF SHOT: DATE _____ NO. QTS. USED _____
 IF PERFORATED NO HOLES PER FT. Completion IF ACIDIZED NO. GALS. USED -0-
 GEOLOGICAL FORMATION SHOT PERFORATED OR TREATED _____ FROM _____ FT. TO _____ FT.
 SHOOTING PERFORATING OR TREATING COMPANY _____
 DATE WELL COMPLETED August 11 1972 HOUR WELL COMPLETED 11 a.m.
 TOP OF PAY. 4406' FT.

TOTAL DEPTH OF WELL 4413 FT.
 PLUG BACK DEPTH 4413 FT.

WAS THIS WELL CORED? Yes WHAT INTERVALS? 4375'-4413'
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM

CASING RECORD

Size	Placed in Well Ft. In.	Left in Well Ft. In.	No Sacks Cement	Size	Placed in Well Ft. In.	Left in Well Ft. In.	No Sacks Cement
8 5/8"	341' 0"	341' 0"	370	5 1/2"	4405' 0"	4405' 0"	200

EXECUTED THIS 14th DAY OF August 1972 CHANDLER & ASSOCIATES, INC.
 STATE OF COLORADO _____
 COUNTY OF DENVER _____
 (Signature) Richard Veghte (Title) Petr. Engineer

Before me the undersigned authority to this day personally appeared Richard Veghte 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 this 14th day of August 1972

My Commission expires May 27, 1973 Notary Public in and for County of Denver
Jacqueline Fell State of Colorado

1-36 STATE-ERICKSON

State: NORTH DAKOTA
 County: RENVILLE
 Operator: CHANDLER & ASSOC INC
 API: 33075005230000 IC:
 Initial Class: D
 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	Gas	Water	Top Form
	47 BPD		14 BBL	MOHALL

Location

Section, Twp., Range: 36 162 N 84 W
 Spot Code: C NE NE
 Footage NS, EW: 660 FNL 660 FEL CONGRESS SECTION
 Surface remark:
 Principal Meridian: 5TH PRINCIPAL MRD

Lat/Long: 48.8194400 / -101.4989300 US

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL:

From Surface:

TVD:

Dates and Depths

Spud: JUL 06, 1972

Spud Date Code:

TD: 4413 on

LTD: 4400

PlugBack Depth:

Completed: SEP 05, 1972

Formation @ TD: 352MHLL Name: MOHALL

Ref. Elevation: 1601 KB

KB. Elevation: 1601

Ground Elevation: 1592 GR

Contractor: CARDINAL DRILLING

Rig Release Date: Rig #

IP # 001

Top Formation: MOHALL

Base Formation: MOHALL

Oil: 47 BPD

Condst:

Gas:

Water: 14 BBL

Interval: 4405 - 4413

Method: PUMPING

Duration of Test: Hours

Choke:

Oil:

GOR:

Prod Method: OPENHOLE

Perforations:	Interval	Cnt	Type	Shots/Ft	Top Formation
4405 -	4413				352MHLL MOHALL

Casing, Liner, Tubing

Casing 10 3/4 IN @ 352 w/ 370 sx

PI/Dwights PLUS on CD Scout Ticket

#5186

Date: 10/9/2001

Time: 10:54 AM

Casing, Liner, Tubing

Casing 5 1/2 IN @ 4405 w/ sx

Formations and Logs

Top Formation	Log # 1	GR @	250 - 4399	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lithology	Age 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

IP: Madison: 33 BOPD grav 29.5, 15 BWPD, GOR 0.150:1
Perfs: 4374-4387 (Madison)
Dst: #1 4404- 4413
Dst: 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: gassy O. HP 2331-2311 FP 46-86 106-304 SIP 1874 BHT 141F
Cores: 4375- 4413

Dwights number: R8081860

Operator Address

Street or PO Box:

City:

State, Zip: ,

Country:

Phone:

Fax:

E-Mail:

Agent Name:

Agent Code:

Agent Remark:

N. Dakota State Industrial Commission Oil and Gas Division

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

#5854

OPERATOR Petroleum Services Corp. FIELD Mohall
 STREET P.O. Box 1773 POOL Madison
 CITY Minot STATE North Dakota COUNTY Bottineau
 LEASE NAME hade WELL NO. 30-1 ACRES IN UNIT 80
 LOCATION SW SE SEC 30 TWP. 162N RGE 83W ELEVATION 1611 ft. km
 PERMIT NO. 5866 ELECTRIC OR OTHER LOGS RUN March 24, 1976
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE INCLUDING THIS WELL 1

DATA ON TEST

DATE TEST COMMENCED Oct. 1, 1976 HOUR 8AM DATE TEST COMPLETED Oct. 6, 1976 HOUR 8 AM
 LENGTH OF TEST 5 days average on pump (because of erratic pumping) HOURS _____ MINUTES _____

FOR FLOWING WELL:

FOR PUMPING WELL:

FLOWING PRESSURE ON CSG. _____ LBS. SQ. IN. LENGTH OF STROKE 48 INCHES
 FLOWING PRESSURE ON TBG _____ LBS. SQ. IN. NUMBER OF STROKES PER MINUTE 6
 SIZE TBG _____ IN. WORKING BARRELS 1 1/2 SIZE IN. _____
 SIZE CHOKE _____ IN. TYPE CHOKE _____ POS. ADJ. _____
 SHUT IN PRESSURE _____ SIZE TBG _____ IN. NO. FT. RUN _____
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICES? _____

RESULT OF THIS TEST (BBL. NET OIL PER 24 HRS.) 9 BBL./ day on 5 day ave.
 GAS-OIL RATIO OF THIS WELL IS _____ TSM _____ (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 0.8%
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 29°

NAME OF PIPE LINE OR OTHER CARRIER Koch Oil Co.
 IF SHOT: DATE August 5, 1976 NO. QTS. USED _____
 IF PERFORATED: NO. HOLES PER FT. 2 IF ACIDIZED: NO. GALS. USED 500 Mud Acid
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Madison FROM 4361 FT. TO 4376 FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Go-Interational
 DATE WELL COMPLETED Oct. 1, 1976 HOUR WELL COMPLETED _____ M.
 TOP OF PAY 4361 FT.

TOTAL DEPTH OF WELL 4440 FT.
 PLUG BACK DEPTH 4414 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 Ft. In.	Left in Well Ft. In.	No. Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
8 5/8"	373	373	250	5 1/2"	4440	4440	300

EXECUTED THIS 6 DAY OF October 1976 Vern O. Lund
 STATE OF N. D. (Signature) Vern O. Lund OWNER
 COUNTY OF Ward (Title)

Before me the undersigned authority, on this day personally appeared Vern O. Lund 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 this 6th day of October 1976

My Commission expires Sept. 18, 1982
 My Commission expires Sept. 18, 1982 Notary Public in and for _____

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:18 AM**30-1 WADE**

Geo

State: NORTH DAKOTA
 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:

IC:

Abandonment Date:

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

Lat/Long: 48.8226100 / -101.4835800 US
 PBHL:
 PHBL remark:
 ABHL:
 ABHL remark:
 ABHL: From Surface: TVD:

Dates and Depths

Spud: MAR 17, 1976 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
 Gas:
 Interval: 4361 - 4376 GROSS
 Duration of Test: Hours
 Oil: Gravity: 29
 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

Condst:
 Water:
 Method: PUMPING
 Choke:
 GOR:

Treatments: 1 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 Depth	Top TVD	Base Depth	Base TVD	Source	Lithology	Age code
DAKOTA	2748				LOG		602
TRIASSIC /SYSTEM/	3904				LOG		509
UNCONFORMITY	4143				LOG		000
MIDALE /ANH/	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:

PI/Dwights PLUS on CD Scout Ticket

5854

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

Operator Address

Phone:

Fax:

E-Mail:

Agent Name:

Agent Code:

Agent Remark:

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 Skelly Oil Company FIELD Wildcat
 LEASE NAME Louis Erickson WELL NO. 1 SEC. 30 TWP. 162N RGE. 83W
 PERMIT NO. 3307 POOL -
 ELEVATION 1600.9' (~~OWN~~ G.R. ~~XXX~~) COUNTY Bottineau
 ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: SKELLY OIL COMPANY
 STREET P. O. Drawer 649 CITY McCook STATE Nebraska
 DATE WELL WAS PLUGGED February 6, 19 63

TOTAL DEPTH 1681' PBTD 1538'

ELECTRIC OR OTHER LOGS RUN? Schlumberger Induction-Electrical & Gamma Ray Sonic

WAS THIS WELL CORED? Yes IF SO, GIVE INTERVALS 4377-4405'
4405-4420' & 4420-4475'

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? 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 PLUGGED WELL AS FOLLOWS:

<u>4538-4400'</u>	<u>Spot 11 sacks cement</u>	<u>262- 202'</u>	<u>Spot 20 sacks cement</u>
<u>4400-3721'</u>	<u>10# Drilling Mud</u>	<u>202- 15'</u>	<u>10# Drilling Mud</u>
<u>3721-3576'</u>	<u>Spot 20 sacks cement</u>	<u>15'-Surface -</u>	<u>Spot 5 sacks cement.</u>
<u>3576-2779'</u>	<u>10# Drilling Mud</u>	<u>Welded plate over top of surface Casing.</u>	
<u>2779-2709'</u>	<u>Spot 20 sacks cement</u>		
<u>2709- 262'</u>	<u>10# Drilling Mud</u>	<u>(Continued on Back)</u>	

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 Mad. Willow } ss

G. F. Bass District Superintendent
 (Signature) (Title)

Before me the undersigned authority, on this day personally appeared G. 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 19 63

COMMISSION EXPIRES JUNE 1, 1968

My Commission expires _____ Notary Public in and for State of Nebraska

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:18 AM**1 LOUIS ERICKSON**

State: NORTH DAKOTA
County: BOTTINEAU
Operator: SKELLY OIL COMPANY
API: 33009007310000 IC:
Initial Class: WF
Target Objective:
Final Well Class: WF
Status: D&A-O
Field: WILDCAT
Permit: 3307 on SEP 15, 1972
#3295 Abandonment Date:
Projected TD: 4800 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
Surface remark:
Principal Meridian: 5TH PRINCIPAL MRD

Lat/Long: 48.8230500 / -101.4938500 US
PBHL:
PHBL remark:
ABHL:
ABHL remark:
ABHL: From Surface: TVD:

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
Gas:
Interval: 4408 - 4421
Duration of Test: 3 Hours
Oil: Gravity:
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

Condst:
Water:
Method: SWABBING
Choke:
GOR:

PI/Dwights PLUS on CD Scout Ticket

3295

Date: 10/9/2001

Time: 11:18 AM

Treatments: 100 Interval: 4408 - 4421
Fluid: 500 GAL ACID Type: A
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:
Interval: 4408 - 4411
Duration of Test: 6 Hours
Oil: Gravity:
Prod Method: PERF
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:
Gas:
Interval: -
Duration of Test: Hours
Oil: Gravity:
Prod Method:
Pressures: FTP: SITP:
FCP: SICP:
Perforations: STATE A
Perf Interval: Shots/Ft: 4

Remarks on PT Test # 003 SALT WTR

PD # 004

Top Formation: STATE A
Base Formation: STATE A
Oil: 4 BPD
Gas:
Interval: 4408 - 4421
Duration of Test: 24 Hours
Oil: Gravity:
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
Gas:
Interval: 4408 - 4421
Duration of Test: 24 Hours

Condst:
Water: 258 BBL
Method: PUMPING
Choke:

PI/Dwights PLUS on CD Scout Ticket

3295

Date: 10/9/2001

Time: 11:18 AM

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
 Gas: Condst:
 Interval: 4408 - 4421 Water: 278 BBL
 Duration of Test: 24 Hours Method: PUMPING
 Oil: Gravity: Choke:
 Prod Method: PERF GOR:
 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
 Gas: Condst:
 Interval: 4408 - 4421 Water: 278 BBL
 Duration of Test: 24 Hours Method: PUMPING
 Oil: Gravity: Choke:
 Prod Method: PERF GOR:
 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: S Formation: STATE A
 Overlapping Formation: MISSION CANYON /ANHY/ PORO/
 Interval: 4380 - 4405 BHT 100
 Choke: Top: Bottom:
 Recovery: 1 150 FT HGCM Rec Method: PIPE
 Recovery: 2 120 FT OC&HGCM Rec Method: PIPE
 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

Interval: 4377 - 4405 Rec: 28 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 CRYST, 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 FT
Core Type: CONV Show Type: OIL
Description: 0.2 LM, VUG PORO, GOOD SHOW
0.8 LM, MED CRYST, NO SHOWS
6 LM, VERY ANHY, TIGHT, NO SHOWS
4 LM, SLI ANHY, COARSELY CRYST, NO SHOWS
2 LM, MED CRYST, PP VUG PORO, FETID
ODOR, NO SHOWS
2 LM, MICROCRYST, SLI PORO, TIGHT

Core Id: 003

Formation: 352MSNC MISSION CANYON /ANHY/ PORO/
Interval: 4420 - 4475 Rec: 49 FT
Core Type: CONV Show Type:
Description: 0.8 LM, MED CRYST, NO SHOWS
7 LM, SUBLITHO, ARG, TIGHT
8 LM, CRYPTOCRYST, TIGHT, SMALL STREAK
VUG PORO UPPER 6 INCHES
10 LM, PISOLITIC, GOOD VUG PORO, NO SHOWS
2 LM, ARG, TIGHT
6 LM, CRYPTOCRYST FRAG, LOCALLY POOR
VUG PORO, NO SHOWS
4 LM, SUBLITHO, TIGHT
3 LM, CRYPTOCRYST 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
Casing 4 1/2 IN @ 4591 w/ 150 sx

Formations and Logs
Top Formation

Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age code
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PI/Dwights PLUS on CD Scout Ticket

#3295

Date: 10/9/2001
Time: 11:18 AM**Formations and Logs**

SPEARFISH	3927		LOG	469
MIDALE /ANYH/	4218		LOG	353
STATE A	4297	4304	LOG	352
MISSION CANYON /ANYH/ PO	4384		SPL	352
MISSION CANYON /ANYH/ PO	4396		LOG	352

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: P 9 BOPD 30.5 Grav, 291 BWPD
Perfs: 4408-4411 (Madison)
Perfs: /4;
Perfs: 4417-4421 (Madison)
Perfs: /4; A overall/500 gals; Swbd 62 BLO & 12 BAW/2-1/2 hrs; Swbd 32 BO &
Perfs: 74 BSW/6 hrs;
Dst: #1 4380- 4405
Dst: , SI/30 min, op 4 hrs, SI/1 hr, strg blo, rec 150' HGCM, 120' O&HGCM,
Dst: 30% oil, 180' HGC foamy oil, 210' GCO, 86' SW, FP 62-264#, SIP
Dst: 1733-1604#, HP 2155-2155#
Cores: #1 4377- 4405
Cores: rec 28': 7.5' anhy; 0.5' li, dns, shly; 2' anhy,
Cores: limey; 2' li, poor por, sli odor & stn, tr vug por; 1.9' li, crs-xln,
Cores: sli sho oil; 6.6' li, sli vug, frag, fair por, gd stn & odor, bledg
Cores: oil; 2.5 li, anhy, scrd pinpt por, tite, sli sho oil; 1.5' li, sli
Cores: vuggy, fair por, gd show, bledg oil; 1.5' li, gd-fair pinpt vug por,
Cores: small vug por, fair show; 2' li, tite;
Cores: #2 4405- 4420
Cores: rec 15': 2' li, vug por, gd show oil; 10' li, m-xln,
Cores: NS; 6' li, v-anhy, NS; 4' li, sli anhy, crs-xln, NS; 2' li, m-xln,
Cores: pinpt vug por, NS; 2' li, micro-xln, sli por-tite;
Cores: #3 4420- 4475
Cores: rec 49': 2' li, pell, poor vug por, NS; 7 li,
Cores: sub-litho, tite; 8' li crypto-xln, tite, strks vug por in top; 10' li,
Cores: picolythic, gd vug por, NS; 2' li, tite; 6' li, crypto-xln, frag,
Cores: poor vug por, NS; 4' li, sub-litho, tite; 3' li, crypto-xln, frag,
Cores: poor-fair vug por, NS; 3' li, crypto-xln, tite; 4'li, crypto-xln,
Cores: strks vug por, no vis stn; (5' lost);

Dwights number: R8062950

Operator Address

Street or PO Box:

City:

State, Zip:

Country:

Phone:

E-Mail:

Agent Name:

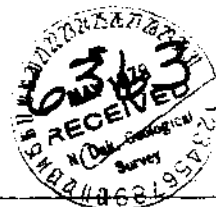
Agent Remark:

Fax:

Agent Code:

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE



OPERATOR Vern C. Lund FIELD Kohall
 STREET P.O. Box 1773 POOL Madison
 CITY Minot STATE North Dakota COUNTY Bottineau
 LEASE NAME Erickson WELL NO. 1 ACRES IN UNIT 80
 LOCATION NE SW SEC 30 TWP. 162N RGE 83W ELEVATION 1605 (DB or KB)
 PERMIT NO. 8363 ELECTRIC OR OTHER LOGS RUN Gamma-Ray Neutron April 28 1978
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE INCLUDING THIS WELL 1

DATA ON TEST

DATE TEST COMMENCED May 20 1978 HOUR 8AM DATE TEST COMPLETED May 21 1978 HOUR 8 AM
 LENGTH OF TEST 24 hours HOURS MINUTES

FOR FLOWING WELL:

FLOWING PRESSURE ON CSG. _____ LBS. SQ. IN. LENGTH OF STROKE 44 INCHES
 FLOWING PRESSURE ON TBG _____ LBS. SQ. IN. NUMBER OF STROKES PER MINUTE 11
 SIZE TBG _____ IN. WORKING BARRELS 1 1/2" x 12' SIZE IN.
 SIZE CHOKE _____ IN. TYPE CHOKE _____ (POS. ADJ.)
 SHUT IN PRESSURE _____ SIZE TBG 2" IN. NO. FT. RUN 4360
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR OTHER ARTIFICIAL DEVICES? _____

FOR PUMPING WELL:

RESULT OF THIS TEST (BBL. NET OIL PER 24 HRS.) 12
 GAS-OIL RATIO OF THIS WELL IS _____ TSTM _____ (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 154
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 27°

NAME OF PIPE LINE OR OTHER CARRIER Koch Oil Co.
 IF SHOT: DATE April 28, 1978 NO. QTS. USED _____
 IF PERFORATED: NO. HOLES PER FT. 3 IF ACIDIZED: NO. GALS. USED 750
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED Madison FROM 4373 FT. TO 4387 FT.
 SHOOTING, PERFORATING OR TREATING COMPANY Go-International
 DATE WELL COMPLETED May 21 1978 HOUR WELL COMPLETED 8 AM.
 TOP OF PAY 4373 FT

TOTAL DEPTH OF WELL 4450 FT.
 PLUG BACK DEPTH 4408 FT

WAS THIS WELL CORED? No WHAT INTERVALS: _____
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM. none

CASING RECORD

Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement	Size	Put in Well Ft. In.	Left in Well Ft. In.	No. Sacks Cement
8 5/8	400	400	300				
5 1/2	4439	4439	400				

EXECUTED THIS 23 DAY OF May 1978 Vern C. Lund (Company or Operator)

STATE OF N. D.
 COUNTY OF Ward Vern C. Lund Owner
 (Signature) (Title)

Before me the undersigned authority, on this day personally appeared Vern C. Lund 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 this 23 day of May 1978

My Commission expires _____
 Notary Public in and for _____
Marie C. Miller

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 10:58 AM**1 ERICKSON**

Geo

State: NORTH DAKOTA
County: BOTTINEAU
Operator: LUND VERN O
API: 33009012680000 IC:
Initial Class: D
Target Objective:
Final Well Class: DO
Status: OIL
Field: MOHALL
Permit: 6363 on MAY 15, 1978
#6363 Abandonment Date:
Projected TD: 4450 Formation: MADISON
Hole Direction:
IP Summary: Oil Gas Water Top Form
12 BPD MADISON

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 US
PBHL:
PHBL remark:
ABHL:
ABHL remark:
ABHL: 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
Gas:
Interval: 4373 - 4387
Duration of Test: Hours
Oil: Gravity: 27
Prod Method: PERF
Perforations: Interval Cnt Type Shots/Ft Top Formation
4373 - 4387 3 FT 359MDSN MADISON
Condst:
Water:
Method: PUMPING
Choke:
GOR:

Treatments: 1 Interval: 4373 - 4387

PI/Dwights PLUS on CD Scout Ticket

#6363

Date: 10/9/2001
Time: 10:58 AMFluid: 700 GAL ACID Type: A
Additive:
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate:
Stages: Remarks:**Casing, Liner, Tubing**Casing 8 5/8 IN @ 400 w/ 300 sx
Casing 5 1/2 IN @ 4439 w/ 400 sx
Tubing 2 IN @ 4360 TUBING**Formations and Logs**

Log # 1 GR @ -

Dwights Energydata Narrative

Accumulated through 1997

IP: Madison: P 12 BOPD 27.0 Grav, 2 BWPD
Perfs: 4373-4387 (Madison)
Perfs: w/3 SPF - acid w/750 gals
Cores: None
Dwights number: R8093630**Operator Address**

Street or PO Box:

City:
State, Zip: ,
Country:
Phone: Fax:
E-Mail:
Agent Name: Agent Code:
Agent Remark:

**North Dakota State Industrial Commission
Oil and Gas Division**

WELL COMPLETION REPORT

SEE INSTRUCTIONS OTHER SIDE

OPERATOR CHANDLER & ASSOCIATES, INC. FIELD MOHALL
 STREET 1401 Denver Club Bldg. POOL MADISON
 CITY Denver, Colo. STATE Colo. COUNTY RENVILLE
 LEASE NAME CROOKS WELL NO. 15-25 ACRES IN UNIT 80
 LOCATION SW SE SEC. 25 TWP. 162N RGE 84W ELEVATION 1606' XXX or, KB.)
 of Section Wireline Schlumberger
 PERMIT NO. 5259 ELECTRIC OR OTHER LOGS RUN? GR. Neutron & Perf. Depth Contnrs 73
 NUMBER OF CRUDE OIL PRODUCING WELLS ON THIS LEASE, INCLUDING THIS WELL 1

DATA ON TEST

DATE TEST COMMENCED 7-19 19 73 HOUR 7a.m. DATE TEST COMPLETED 7-20 19 73 HOUR 7a.m.
 LENGTH OF TEST 24 HOURS 0 MINUTES

FOR FLOWING WELL:**FOR PUMPING WELL:**

FLOWING PRESSURE ON CSG. LBS./SQ. IN. LENGTH OF STROKE 44 INCHES
 FLOWING PRESSURE ON TBG. LBS./SQ. IN. NUMBER OF STROKES PER MINUTE 12
 SIZE TBG. IN. WORKING BARRELS 1 1/4 (SIZE IN.)
 SIZE CHOKE IN. TYPE CHOKE (POS. ADJ.)
 SHUT IN PRESSURE TP 20 psi, CP 50 psi SIZE TBG 2-7/8 EUE IN. NO. FT. RUN 4405
 WAS THIS WELL FLOWED FOR THE ENTIRE DURATION OF THIS TEST WITHOUT THE USE OF SWAB OR
 OTHER ARTIFICIAL DEVICE?

RESULT OF THIS TEST (BBL. NET OIL PER 24 HRS.) 40
 GAS-OIL RATIO OF THIS WELL IS Est. 160 (CU. FT. OF GAS PER BBL. OF OIL)
 PERCENT WATER PRODUCED DURING THIS TEST 62%
 GRAVITY OF OIL PRODUCED DURING THIS TEST (CORRECTED TO 60° A.P.I.) 29.5

NAME OF PIPE LINE OR OTHER CARRIER KOCH OIL COMPANY

IF SHOT: DATE NO. QTS. USED
 IF PERFORATED: NO. HOLES PER FT. IF ACIDIZED: NO. GALS. USED 250
 GEOLOGICAL FORMATION SHOT, PERFORATED OR TREATED acidized FROM 4409 FT. TO 4412 FT.
 SHOOTING, PERFORATING OR TREATING COMPANY
 DATE WELL COMPLETED 7-18 19 73 HOUR WELL COMPLETED 4:30 P. M.
 TOP OF PAY 4409 FT.

TOTAL DEPTH OF WELL 4412 FT.
 PLUG BACK DEPTH 4405 FT.

WAS THIS WELL CORED? yes WHAT INTERVALS? 4376-4420
 GIVE DRILL STEM TEST DATA ON REVERSE SIDE OF THIS FORM.

CASING RECORD

Size	Put in Well Ft.	In.	Left in Well Ft.	In.	No. Sacks Cement	Size	Put in Well Ft.	In.	Left in Well Ft.	In.	No. Sacks Cement
8-5/8"	374'	0	374'	0	215	5 1/2"	4409'	0	4409'	0	200

EXECUTED THIS 20th DAY OF July 19 73 CHANDLER & ASSOCIATES, INC.
 (Company or Operator)
 STATE OF COLORADO Richard Veghte Petroleum Engineer
 COUNTY OF DENVER (Title)

Before me the undersigned authority, on this day personally appeared Richard Veghte 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 this 20th day of July 19 73

My Commission expires May 19, 1977 Notary Public in and for COUNTY OF DENVER
Dianne M. Thayer STATE OF COLORADO

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: D
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
40 BPD 65 BBL MOHALL

Location

Section, Twp., Range: 25 162 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
Gas: Condst:
Interval: 4409 - 4420 Water: 65 BBL
Duration of Test: Hours Method: PUMPING
Oil: Gravity: Choke:
Prod Method: OPENHOLE GOR:
Water:
Type: WTR Salinity: Temp:
Perforations: Interval Cnt Type Shots/Ft Top Formation
4409 - 4420 352MHLL MOHALL

PI/Dwights PLUS on CD Scout Ticket

#5247

Date: 10/9/2001

Time: 10:52 AM

Treatments: 1 Interval: 4409 - 4420
Fluid: 250 GAL ACID Type: A
Additive:
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate:
Stages: Remarks:

Core Id: 001

Formation: 352MHLL MOHALL
Interval: 4376 - 4420 Rec: 44 FT
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 8 5/8 IN @ 384 w/ 215 sx
Casing 5 1/2 IN @ 4409 w/ 200 sx

Drilling Journal

	Obs. #	Interval	Type	Form	Sample
Show	2	4413 - 4420	GODR	352MHLL - 352MHLL	
Show	1	4413 - 4420	OSTN	352MHLL - 352MHLL	

Formations and Logs

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age code
UNCONFORMITY	4155				LOG		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: 40 BOPD grav 29.5, 62 BWP, GOR 0.620:1 0.900/64 ck
Perfs: 4409-4412
Perfs: - acid w/250 gals.
Cores: 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**

(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 Don Bills & Clinton St. Clair FIELD Mohall
LEASE NAME Erickson WELL NO. 1 SEC. 30 TWP. 162N RGE. 83W
PERMIT NO. 5304 POOL Madison
ELEVATION 1606' ~~MOHALL~~ K.B. COUNTY Bottineau
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: Harris, Brown & Klemmer
STREET P. O. Box 5 CITY Bismarck STATE North Dakota 58501
DATE WELL WAS PLUGGED May 21 19 73

TOTAL DEPTH 4465'

ELECTRIC OR OTHER LOGS RUN? Yes Induction-Laterolog and Bore Hole Compensated Gamma
Ray-Sonic log
WAS THIS WELL CORED? No IF SO, GIVE INTERVALS _____

WAS THE WELL FILLED WITH MUD LADEN FLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRIAL COMMISSION? Yes HOW WAS MUD APPLIED? Pump 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" @ 368' KB w/240 sx

<u>Mohall</u>	<u>4430'</u>	<u>25</u>
<u>Unconformity</u>	<u>4180'</u>	<u>25</u>
<u>Dakota</u>	<u>2850'</u>	<u>25</u>
<u>Base surface</u>	<u>390'</u>	<u>25</u>
<u>Top surface</u>	<u>10</u>	<u>110</u>

WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS? Yes
GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM

EXECUTED THIS 23 DAY OF ~~May~~ May 19 73 Don Bills & Clinton St. Clair
(Company or Operator)
STATE OF NORTH DAKOTA James L. Brown Consulting Geologist
COUNTY OF BURLEIGH (Signature) (Title)

Before me the undersigned authority, on this day personally appeared James L. Brown 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 this 23 day of May 19 73

My Commission expires August 14, 1978 Notary Public in and for Burleigh County
Steven H. Harris

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 11:18 AM**1 ERICKSON**

State: NORTH DAKOTA
County: BOTTINEAU
Operator: BILLS DON
API: 33009011030000 IC:
Initial Class: WO
Target Objective:
Final Well Class: WO
Status: D&A-OG
Field: MOHALL
Permit: 5304 on SEP 15, 1973
5292 Abandonment Date:
Projected TD: 4500 Formation: MADISON
Hole Direction:

Location

Section, Twp., Range: 30 162 N 83 W
Spot Code: W2 SW NW
Footage NS, EW: 1980 FNL 602 FWL CONGRESS SECTION
Surface remark:
Principal Meridian: 5TH PRINCIPAL MRD
Lat/Long: 48.8302900 / -101.4937000 US
PBHL:
PHBL remark:
ABHL:
ABHL remark:
ABHL: From Surface: TVD:

Dates and Depths

Spud: MAY 14, 1973 Spud Date Code:
TD: 4465 on
LTD: 4464
PlugBack Depth:
Completed: MAY 21, 1973
Formation @ TD: 352GLBR Name: GLENBURN
Ref. Elevation: 1606 KB
KB. Elevation: 1606
Ground Elevation:
Contractor: CARDINAL DRILLING
Rig Release Date: Rig #

DST # 001

Show: S Formation: MOHALL
Interval: 4394 - 4406 BHT 130
Choke: Top: Bottom:
Recovery: 1 15 FT M Rec Method: PIPE
Recovery: 2 112 FT SOCM Rec Method: PIPE
Recovery: 3 97 FT HGOCM Rec Method: PIPE
Recovery: 4 5 FT O Rec Method: PIPE
Recovery: 5 10 FT M Rec Method: PIPE
Recovery: 6 780 CC O Rec Method: SMPL CHAMBER
Recovery: 7 560 CC O Rec Method: SMPL CHAMBER
Recovery: 8 80 CC W Rec Method: SMPL CHAMBER
Pressures and Times:
Hydro Init Flow Final Flow Shut-in Open Time Shut-in Time

PI/Dwights PLUS on CD Scout Ticket

#5292

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

Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final
2410	2410			36	98	1850	1707	10	120	45	90
Pressure Rmk:				FLOWING		to		WEAK-STRONG BLOW			

Casing, Liner, Tubing

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

Formations and Logs

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
SPEARFISH	3912				LOG		469
UNCONFORMITY	4140				LOG		000
MIDALE /ANHY/	4200				LOG		353
STATE A	4278				LOG		352
SHERWOOD	4322				LOG		352
MOHALL	4383				LOG		352
GLENBURN	4428				LOG		352

Dwights Energydata Narrative

Accumulated through 1997

Cores: None

Dwights number: R8082920

Operator Address

Street or PO Box:

City:

State, Zip: ,

Country:

Phone:

Fax:

E-Mail:

Agent Name:

Agent Code:

Agent Remark:

North Dakota State Industrial Commission
Oil and Gas Division

PER TO PERMIT 5830 33-075-
00644

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 Chandler & Associates, Inc. FIELD Mohall
LEASE NAME Crooks WELL NO. 7-25 SEC. 25 TWP. 162N RGE. 84W
PERMIT NO. 5830 33-075-00644 POOL Madison
ELEVATION 1595' Ground (D.F., G.R., K.B.) COUNTY Renville
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO Chandler & Associates, Inc.
STREET 1401 Denver Club Bldg. CITY Denver STATE Colorado Attn: Production Department
DATE WELL WAS PLUGGED February 15, 1976

TOTAL DEPTH 4450'

ELECTRIC OR OTHER LOGS RUN? None.

WAS THIS WELL CORED? Yes IF SO, GIVE INTERVALS Core #1: 4383-4407', Recovered 24', Core #2: 4408-4421', Recovered 12½'.

WAS THE WELL FILLED WITH MUD LADEN FLUID, ACCORDING TO REGULATIONS OF THE STATE INDUSTRIAL COMMISSION? Yes HOW WAS MUD APPLIED? PUMP 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 was plugged as follows: At 4180' with 30 sx, at 3950' w/30 sx, at 2850' w/30 sx, at 430' w/30 sx and at surface w/10 sx.

WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS? Yes.
GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM.

8th DAY OF March 1976 CHANDLER & ASSOCIATES, INC.

North Dakota State Industrial Commission
Oil and Gas Division
PLUGGING RECORD

PER TO PERMIT 5830 33-075-
00644

(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.)

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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 was plugged as follows: At 4180' with 30 sx, at 3950' w/30 sx, at 2850' w/30 sx, at 430' w/30 sx and at surface w/10 sx.

WAS NOTICE GIVEN BEFORE PLUGGING, TO ALL AVAILABLE ADJOINING LEASE AND LAND OWNERS? Yes.
GIVE DRILL STEM DATA ON REVERSE SIDE OF THIS FORM.

EXECUTED THIS 8th DAY OF March 1976 CHANDLER & ASSOCIATES, INC.
(Company) or Operator

STATE OF COLORADO
COUNTY OF DENVER ss

James R. Weber Geologist
(Signature) (Title)
James R. Weber

Before me the undersigned authority, on this day personally appeared James R. Weber 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 this the 8th day of March, 1976
Patricia Jane Blackard
Patricia Jane Blackard
My Commission expires November 7, 1979 Notary Public in and for County of Denver, State of Colorado

PI/Dwights PLUS on CD Scout TicketDate: 10/9/2001
Time: 10:52 AM**7-25 CROOKS**

State: NORTH DAKOTA
County: RENVILLE
Operator: CHANDLER & ASSOC INC
API: 33075006440000 IC:
Initial Class: D
Target Objective:
Final Well Class: D
Status: D&A-O
Field: MOHALL
Permit: 5830 on MAR 15, 1976
#5818 Abandonment Date:
Projected TD: 4500 Formation: MADISON
Hole Direction:

Location

Section, Twp., Range: 25 162 N 84 W
Spot Code: SW NE
Footage NS, EW: 2095 FNL 1980 FEL CONGRESS SECTION
Surface remark:
Principal Meridian: 5TH PRINCIPAL MRD
Lat/Long: 48.8300000 / -101.5044200 US
PBHL:
PHBL remark:
ABHL:
ABHL remark:
ABHL: From Surface: TVD:

Dates and Depths

Spud: FEB 05, 1976 Spud Date Code:
TD: 4450 on
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 #

Core Id: 001

Formation: 352MHLL MOHALL
Interval: 4383 - 4408 Rec: 24.5 FT
Core Type: CONV Show Type: OIL
Form ID: 352STTA
Description: CORED 4383-4407 1/2
8 ANHY
7 DOLO, SDY
7 LM, CHALKY, INTERBDD W/DNS ANHY
2 1/2 LM, BUFF-BRN, LITHOCLASTIC, PP VUGGY PORO, BRN
OIL STN, SOME BLEDDG OIL, LITTLE SPARRY ANHY

Casing, Liner, Tubing

Casing 8 5/8 IN @ 3382 w/ 240 sx

Drilling Journal

	Obs. #	Interval	Type			Form	Sample
Show	2	4405 - 4408	BLDO			352MHLL - 352MHLL	
Show	1	4405 - 4408	OSTN			352MHLL - 352MHLL	
Porosity Zones	ID	Top -	Base	Type	Quality	Form code	Thickness
	1	4405 -	4408	PP		352MHLL	
	2	4405 -	4408	VUG		352MHLL	

Formations and Logs

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age 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

Fax:

E-Mail:
Agent Name:
Agent Remark:

Agent Code:

DESCRIPTION OF INJECTION PLAN MOHALL MADISON UNIT AREA INJECTION

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

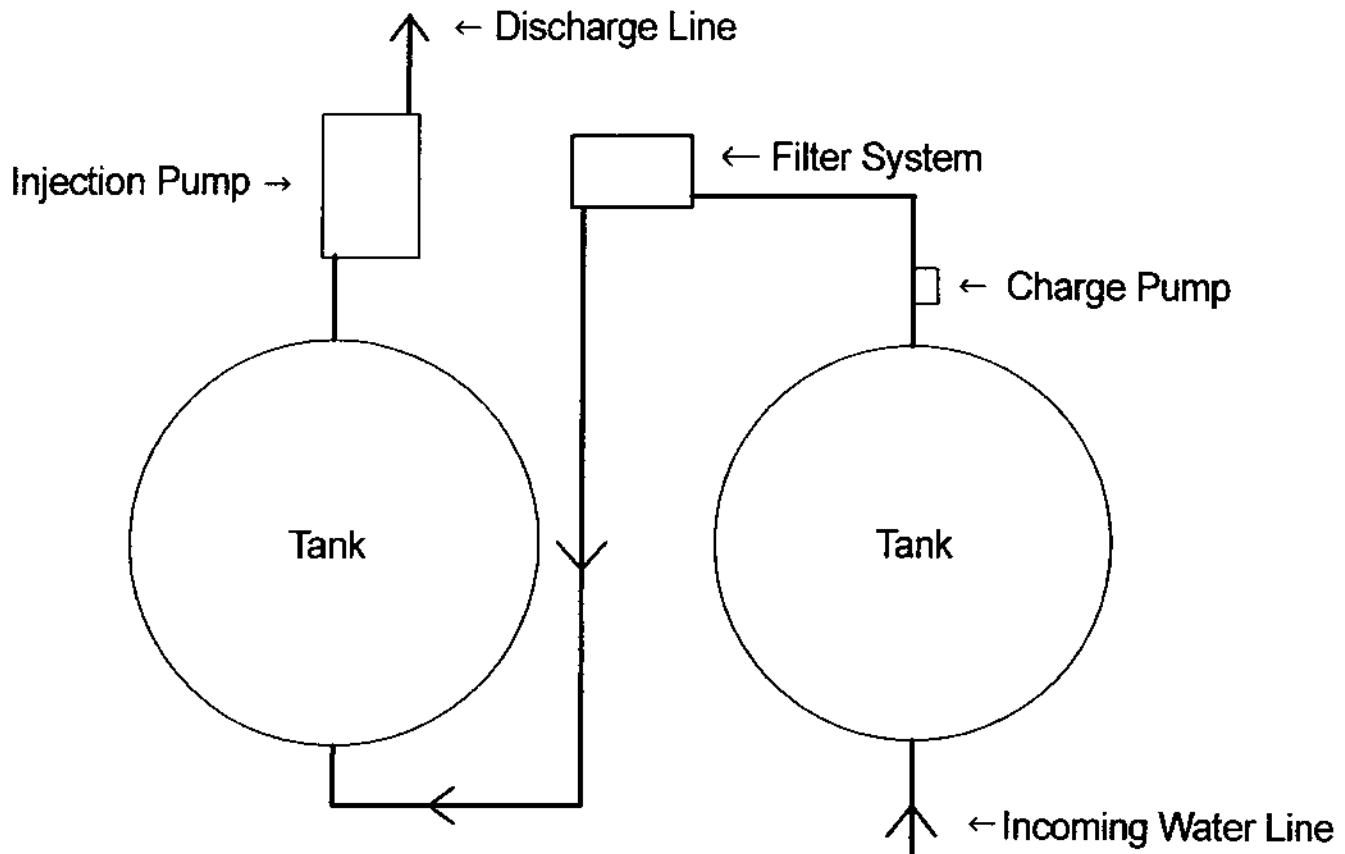
George Witteman #1-A	NENE Section 7-161N-84W
Crooks #15-25	SWSE Section 25-162N-84W
Erickson #30-1	NESW Section 30-162N-83W
Mohall Park #1	NESW Section 31-162N-83W
Ivan Gehringer T-1 #1	SWNE Section 31-162N-83W
Ivan Gehringer #3	NENE Section 31-162N-83W
Gail Hutton #1	NESW Section 6-161N-83W
Carl O.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

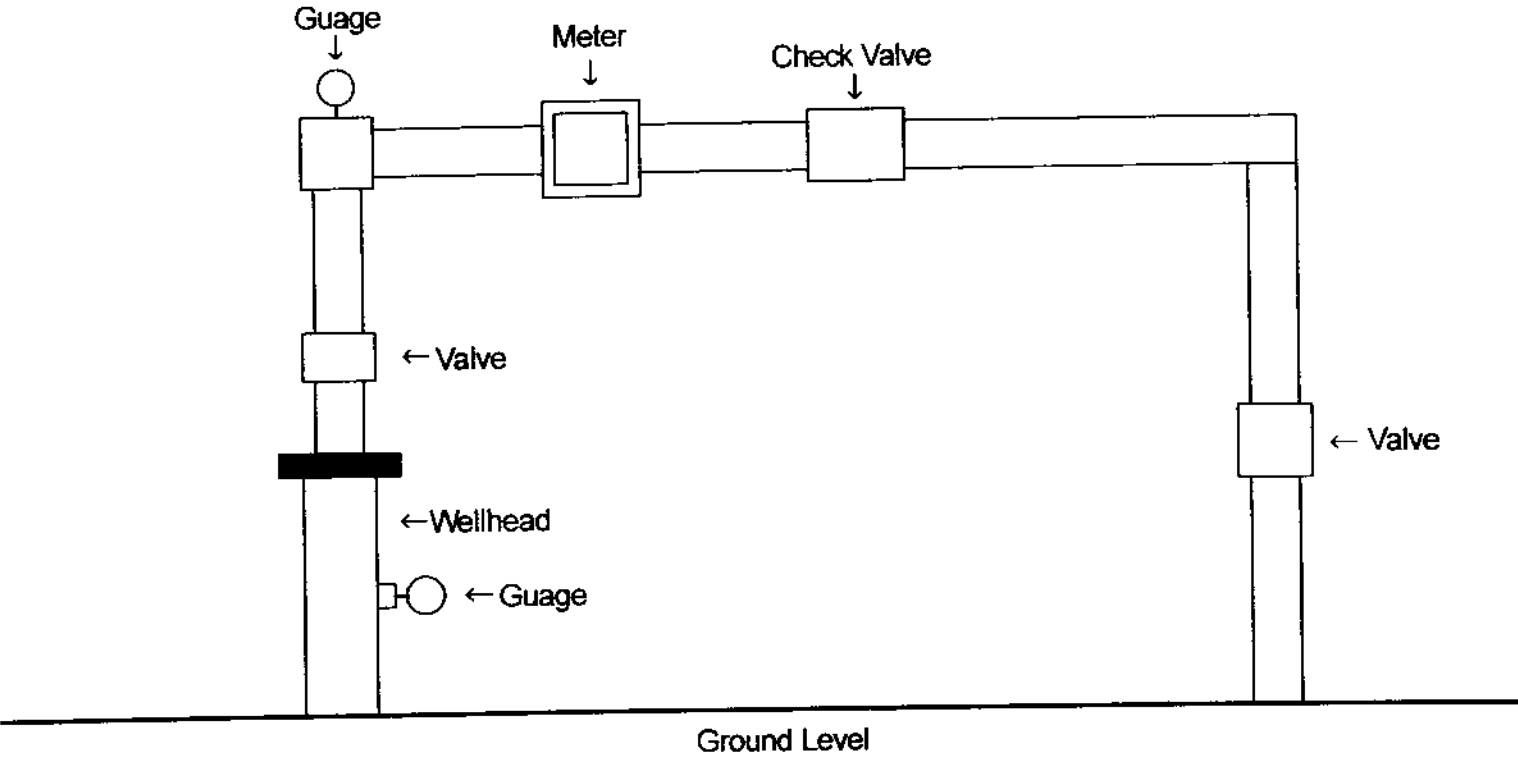
All water will be filtered and chemically treated for corrosion prior to injection.

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA
DATE 11/20/02 CASE NO. 7945
Introduced By Eagle
Exhibit 7
Certified By Greg Steiner

Injection Pump Station Schematic



Injection Wellhead Schematic



ASTRO-CHEM LAB, INC.

4102 2nd Ave. West

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

Phone: (701) 572-7355

WATER ANALYSIS REPORT

SAMPLE NUMBER W-02-1044 DATE OF ANALYSIS 5-29-02
COMPANY Eagle Operating
CITY Kenmare STATE ND
WELL NAME AND/OR NUMBER Harold Ring - House Well
DATE RECEIVED 5-14-02 DST NUMBER
SAMPLE SOURCE Dugout Well
LOCATION OF SEC. 32 TWN. 162 RANGE 83 COUNTY Bottineau
FORMATION DEPTH
DISTRIBUTION Greg Steiner - Kenmare, ND

RESISTIVITY @ 77°F = 13.838 Ohm-Meters

pH = 8.09

SPECIFIC GRAVITY @ 77°F = 1.000

H₂S = Negative

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

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

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	3.8	75	CHLORIDE	0.3	11
MAGNESIUM	2.0	22	CARBONATE	0.0	0
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	0
BARIUM	0.0	0.0			
POTASSIUM	0.3	11			

WATER ANALYSIS PATTERN

Na, K	1.0	1		0	1.0 Cl
Ca	1.0	4		6	1.0 HCO ₃
Mg	1.0	2		0	0.1 SO ₄
Fe	0.1	2		0	0.1 CO ₃
MEQ/L					

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

INDUSTRIAL COMMISSION

STATE OF NORTH DAKOTA

DATE 11/20/02 CASE NO. 7945

Introduced By Eagle

ANALYZED BY: C. Hagen

Identified By Greg Steiner

ASTRO-CHEM LAB, INC.

4102 2nd Ave. West

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

Phone: (701) 572-7355

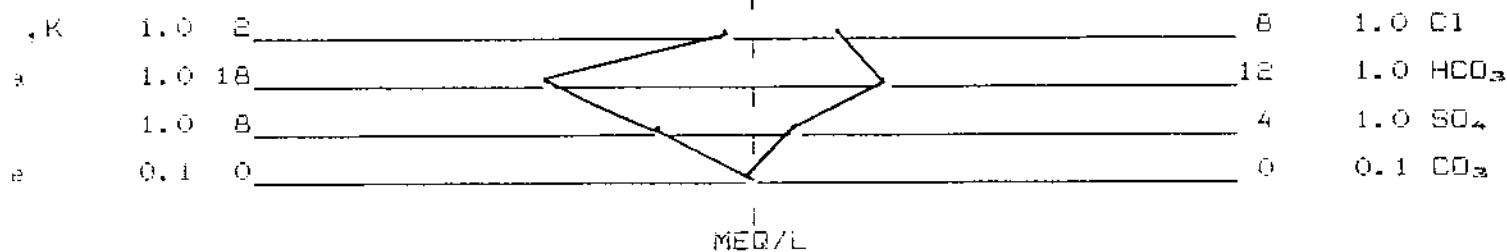
WATER ANALYSIS REPORT

SAMPLE NUMBER W-02-1043 DATE OF ANALYSIS 5-29-02
COMPANY Eagle Operating
CITY Kenmare STATE ND
WELL NAME AND/OR NUMBER Dale Randas Well
DATE RECEIVED 5-14-02 DST NUMBER
SAMPLE SOURCE Surface Well
LOCATION SW OF SEC. 30 TWN. 162 RANGE 83 COUNTY Bottineau
FORMATION DEPTH 12'
DISTRIBUTION Greg Steiner - Kenmare, ND

RESISTIVITY @ 77°F = 3.419 Ohm-Meters pH = 7.22
SPECIFIC GRAVITY @ 77°F = 1.000 H₂S = Negative
TOTAL DISSOLVED SOLIDS (CALCULATED) = 2131 mg/L (2131 ppm)
SODIUM CHLORIDE (CALCULATED) = 445 mg/L (445 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	18.4	365	CHLORIDE	7.6	270
MAGNESIUM	7.6	84	CARBONATE	0.0	0
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			

WATER ANALYSIS PATTERN



REMARKS Date Sampled 5-14-02

Conductivity = 2721.3 µmhos/cm

ANALYZED BY: C. Haden

ASTRO-CHEM LAB, INC.

4102 2nd Ave. West

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

Phone: (701) 572-7355

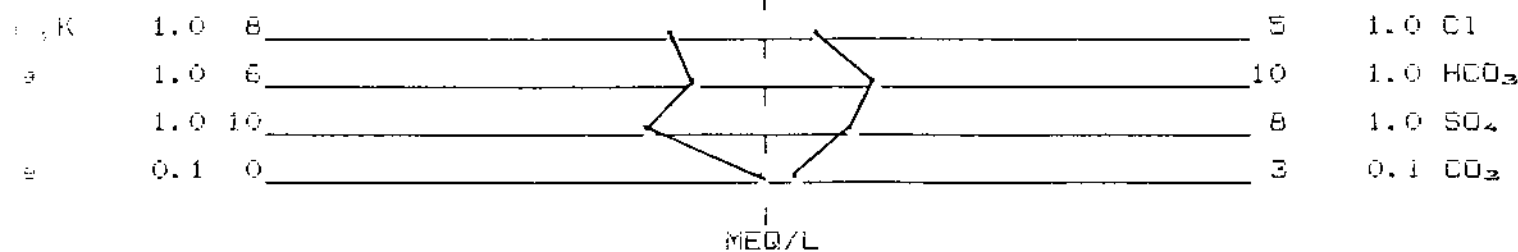
WATER ANALYSIS REPORT

SAMPLE NUMBER W-02-1046 DATE OF ANALYSIS 5-29-02
COMPANY Eagle Operating
CITY Kenmare STATE ND
WELL NAME AND/OR NUMBER Don Henes Well
DATE RECEIVED 5-14-02 DST NUMBER
SAMPLE SOURCE Surface Well
LOCATION SW OF SEC. 36 TWN. 162 RANGE 84 COUNTY Renville
FORMATION DEPTH 16'
DISTRIBUTION Greg Steiner - Kenmare, ND

RESISTIVITY @ 77°F = 4.233 Ohm-Meters pH = 9.02
SPECIFIC GRAVITY @ 77°F = 1.000 H₂S = Negative
TOTAL DISSOLVED SOLIDS (CALCULATED) = 1631 mg/L (1631 ppm)
SODIUM CHLORIDE (CALCULATED) = 297 mg/L (297 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	5.6	111	CHLORIDE	5.1	180
MAGNESIUM	10.2	113	CARBONATE	0.3	9
SODIUM	8.2	188	BICARBONATE	10.0	610
IRON	0.0	0.0	SULFATE	8.2	392
CHROMIUM	0.0	0.0	NITRATE	0.3	18
BARIUM	0.0	0.0			
POTASSIUM	0.3	10			

WATER ANALYSIS PATTERN



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

ANALYZED BY: C. Hagen

ASTRO-CHEM LAB, INC.

4102 2nd Ave. West

Williston, North Dakota 58802-0972

Phone: (701) 572-7355

P.O. Box 972

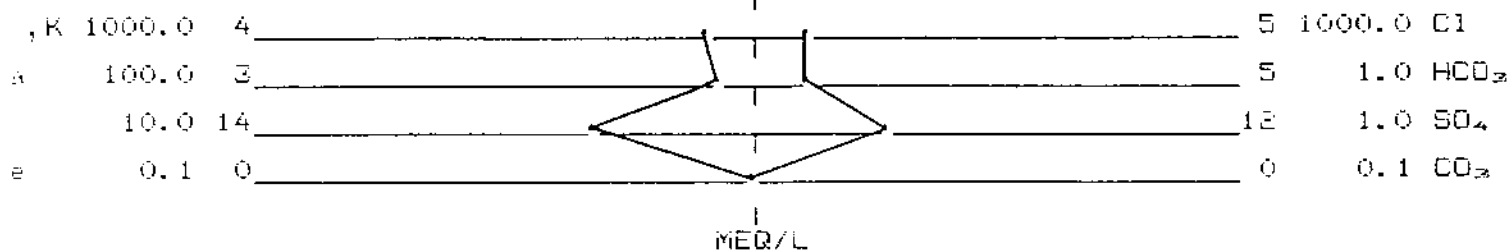
WATER ANALYSIS REPORT

SAMPLE NUMBER W-02-1045 DATE OF ANALYSIS 5-29-02
COMPANY Eagle Operating
CITY Kenmare STATE ND
WELL NAME AND/OR NUMBER Mohall Park #1
DATE RECEIVED 5-14-02 DST NUMBER
SAMPLE SOURCE Treater
LOCATION NE SW OF SEC. 31 TWN. 162 RANGE 83 COUNTY Bottineau
FORMATION DEPTH
DISTRIBUTION Greg Steiner - Kenmare, ND

RESISTIVITY @ 77°F = 0.036 Ohm-Meters pH = 7.14
SPECIFIC GRAVITY @ 77°F = 1.175 H₂S = Positive
TOTAL DISSOLVED SOLIDS (CALCULATED) = 293436 mg/L (249733 ppm)
SODIUM 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	0
SODIUM	4354.1	100100	BICARBONATE	5.2	317
IRON	0.0	0.8	SULFATE	12.0	575
CHROMIUM	0.1	0.8	NITRATE	0.0	0
BARIUM	0.3	18.0			
POTASSIUM	116.6	4560			

WATER ANALYSIS PATTERN



REMARKS 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

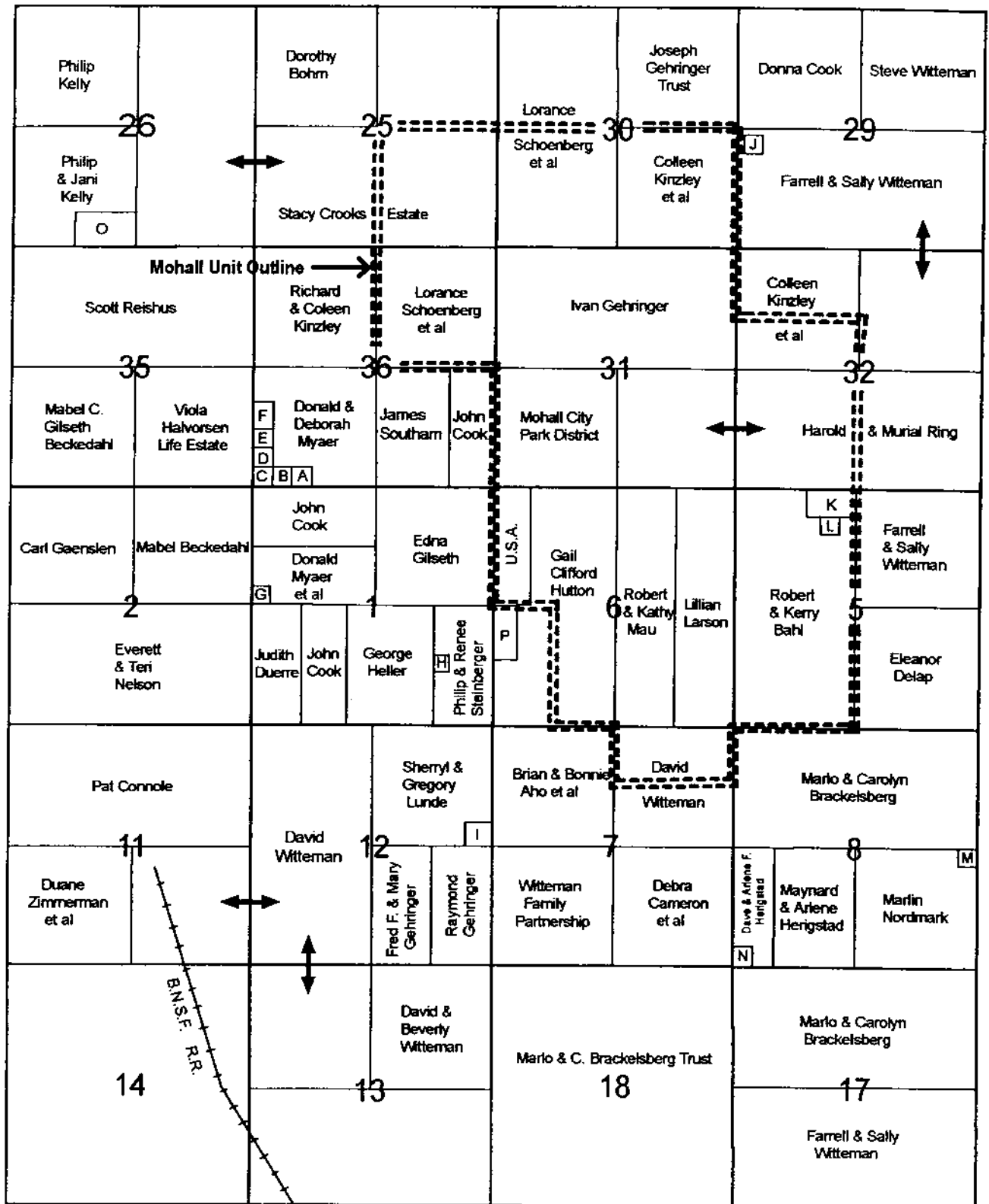
INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA
DATE 11/20/02 CASE NO. 7945
Initiated By Fagle
By Greg Steiner

MOHALL MADISON UNIT SURFACE OWNERSHIP PLAT

Renville Co. | Bottineau Co.

T 162 N

T 161 N



R 84 W

R 83 W

- SMALL TRACT OWNERS
- A Sam & Audrey Scott
 - B Donald R. Henes
 - C Barry & Marlene Myaer
 - D Gordon Martin
 - E Loren Sundahl
 - F David & Crystynn Walker
 - G Robert Walker
 - H Larry & Donna Cook
 - I William & Nellie Wittman
 - J Hoffman Township
 - K Earl Schwartz Co
 - L Janice M. Kinzley
 - M Cutbank Township
 - N Cutbank Township
 - O Barrie & Mary Kelly
 - P City of Mohall

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA

Produced By Eagle
Exhibit 10
Identified By Greg Stiner
CASE NO. 7945
DATE 11/20/02

ORIGINAL

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
DATE 11/20/02 CASE NO. 7945
Submitted By Eagle
11
Greg Steiner

BEFORE THE INDUSTRIAL COMMISSION

OF THE STATE OF NORTH DAKOTA

CASE NO. _____

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)

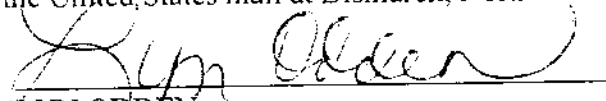
Lyn Odden, being first duly sworn, deposes and says that on the 22nd day of October, 2002,
she served the attached:

Letter to ALL SURFACE OWNERS

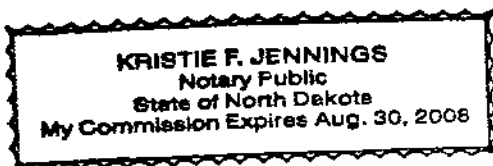
by placing a true and correct copy thereof in an envelope addressed as follows:

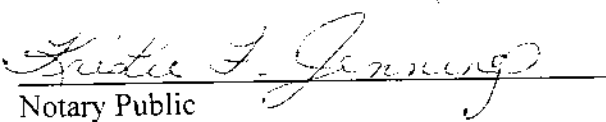
See attached Exhibit A

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


LYN ODDEN

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




Notary Public
Burleigh County, North Dakota
My Commission expires:

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

Dorothy Bohm
9780 Co Rd 9
Mohall, ND 58761-9221

Nigel Beckedahl
P.O. Box 602
Mohall, ND 58761-0602

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

Marlo & Carolyn Brackelsberg
3474 Hwy 5 NW
Mohall, ND 58761

Botineau County Road R/W
314 W 5th St
Botineau, ND 58318

Burlington Northern Property Tax Dept.
P.O. Box 961089
Fort Worth, TX 76161-0089

Larry & Donna Cook
PO Box 683
Mohall, ND 58761-0683

John Cook c/o Judy Duerre
9564 Co Rd 9
Mohall, ND 58761-9224

John R. Cook
PO Box 623
Mohall, ND 58761-0623

Pat Connoles
2511 Hwy 5
Mohall, ND 58761-9101

Debra Cameron
6257 N 22nd St
Arlington, VA 22205

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

EXHIBIT A

Eleanor Delap
20 SE 46th Terrace
Coral, FL 33904-8501

Judith Duerre
PO Box 66
Mohall, ND 58761-0066

Joseph Gehringer Trust
709 Chapin Rd #B
Fort Worth, TX 76116-7707

Ivan Gehringer
PO Box 382
Mohall, ND 58761-0382

Edna Gilseth
ADDRESS UNKNOWN

Carl Gaenslen
ADDRESS UNKNOWN

Fred & Mary Gehringer
2644 Hwy 58
Barstow, CA 92311

Raymond Gehringer
PO Box 382
Mohall, ND 58761-0382

Eola 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
Huntington Beach, CA 92649

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

Raynard & Arlene Herigstad
159 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

Philip & Jani Kelly
415 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

City 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
Kenmare, ND 58746

Barry & Mariane Myaer
3695 96th St NW
Mohall, ND 58761-9262

Gordon Martin
15 Clay
Irvine, CA 92720

Everett & Teri Nelson
ADDRESS UNKNOWN

Marlin Nordmark
Box 395
Mohall, ND 58761

Scott Reishus
PO Box 152
Mohall, ND 58761-0152

Harold & Muriel Ring
1112nd Ave NE
Mohall, ND 58761

Lorance Schoenberg et al
2311 C Street
Steilacoom, WA 98388

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

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3645 96th St NW
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Loren Sundahl
Box 575
Mohall, ND 58761-0575

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PO Box 853
Kenmare, ND 58746

Philip & Renee Steinberger
PO Box 1116
Forsyth, MT 59327-1116

USA Fish & Wildlife c/o J Clark Salyer Refuge
PO Box 66
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3180 Hwy 5 NW
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David Witteman
Box 309
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Witteman Family Partnership
3180 Hwy 5 NW
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William Witterman c/o Olaf Reishus
PO Box 96
Mohall, 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 W. Allen

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 •
LAWRENCE BENDER, P.C. •
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@pearceandurick.com

OF COUNSEL
HARRY J. PEARCE

November 19, 2002

HAND DELIVERED

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



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 above-captioned matter.

Should you have any questions, please advise.

Sincerely,


LAWRENCE BENDER

LB/leo

Enclosure

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

NOV 2002
RECEIVED
FBI
DIVISION

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.


[illegible]

Letter to ALL SURFACE OWNERS

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

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

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

Ardie A. Jennings
Notary Public
Burleigh County, North Dakota
My Commission expires:

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

Dorothy Bohm
9780 Co Rd 9
Mohall, ND 58761-9221

Mabel Beckedahl
PO Box 602
Mohall, ND 58761-0602

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

Marlo & Carolyn Brackelsberg
3474 Hwy 5 NW
Mohall, ND 58761

Bottineau County Road R/W
314 W 5th St
Bottineau, ND 58318

Burlington Northern Property Tax Dept.
PO Box 961089
Fort Worth, TX 76161-0089

Larry & Donna Cook
PO Box 683
Mohall, ND 58761-0683

John Cook c/o Judy Duerre
9564 Co Rd 9
Mohall, ND 58761-9224

John R. Cook
PO Box 623
Mohall, ND 58761-0623

Pat Connoles
3511 Hwy 5
Mohall, ND 58761-9101

Debra Cameron
6257 N 22nd St
Arlington, VA 22205

Stacy Crooks Life Estate
425 28th Ave SW unit D
Minot, ND 58701

EXHIBIT A

Eleanor Delap
206 SE 46th Terrace
Cape Coral, FL 33904-8501

Judith Duerre
PO Box 66
Mohall, ND 58761-0066

Joseph Gehringer Trust
7709 Chapin Rd #B
Fort Worth , TX 76116-7707

Ivan Gehringer
PO Box 382
Mohall, ND 58761-0382

Edna Gilseth
ADDRESS UNKNOWN

Carl Gaenslen
ADDRESS UNKNOWN

Fred & Mary Gehringer
29644 Hwy 58
Barstow, CA 92311

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PO Box 382
Mohall, ND 58761-0382

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Mohall, ND 58761-0471

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16761 Coral Cay Lane
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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

CASE NO. 7945

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

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.

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

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.

4.

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 21 day of October, 2002.

PEARSON & BURLEIGH

By


LAWRENCE BENDER
Attorneys for Applicant

Eagle Operating, Inc.

314 East Thayer Avenue

Post Office Box 400

Bismarck, North Dakota 58502

STATE OF NORTH DAKOTA)

) ss.

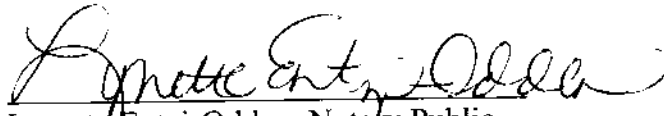
COUNTY OF BURLEIGH)

LAWRENCE BENDER, being first duly sworn on oath, deposes and says that he is the attorney for the applicant named herein, that he has read the foregoing application, knows the contents thereof, and that the same is true to the best of his knowledge and belief.


LAWRENCE BENDER

Subscribed and sworn to before me this 21 day of October, 2002.

LYNETTE ENTZI-ODDEN
Notary Public, State of North Dakota
My Commission Expires JUNE 26, 2005


Lynette Entzi-Odden, Notary Public

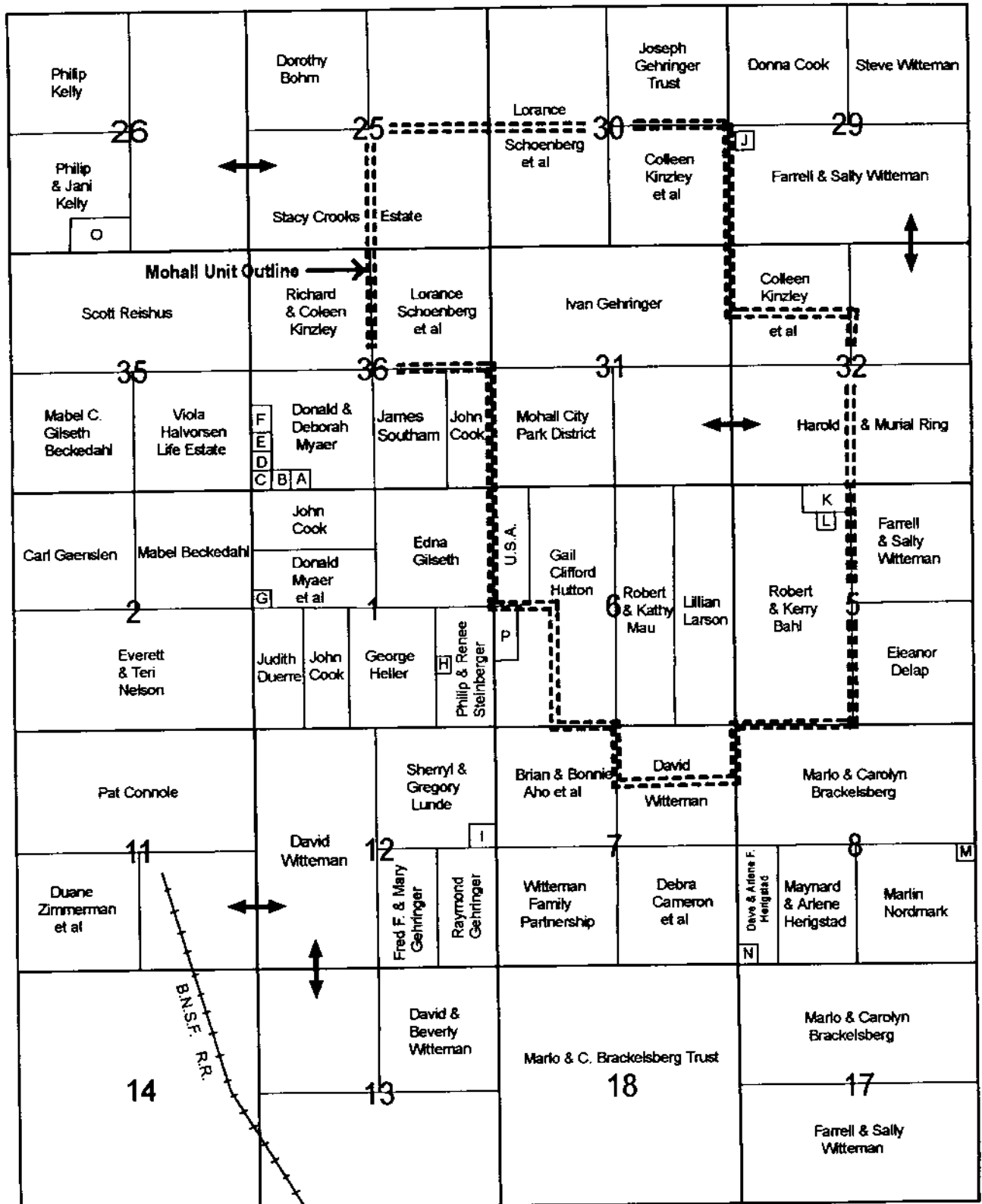
Burleigh County, North Dakota

My Commission Expires: 6-25-05

MOHALL MADISON UNIT SURFACE OWNERSHIP PLAT

Renville Co. | Bottineau Co.

T 162 N
|
T 161 N



R 84 W

R 83 W

SMALL TRACT OWNERS

- | | |
|----------------------------|----------------------------|
| A Sam & Audrey Scott | I William & Nellie Wittman |
| B Donald R. Henes | J Hoffman Township |
| C Barry & Marlene Myaer | K Earl Schwartz Co |
| D Gordon Martin | L Janice M. Knutson |
| E Loren Sundahl | M Cutbank Township |
| F David & Crystlynn Walker | N Cutbank Township |
| G Robert Walker | O Barrie & Mary Kelly |
| H Larry & Donna Cook | P City of Mohall |

EXHIBIT A



FirstName	Address1	City	State	PostalCode
Brian & Bonnie Aho	RR 1 Box 64	Grandin	ND	58038
Dorothy Bohm	9780 Co Rd 9	Mohall	ND	58761-9221
Mabel Beckedahl	PO Box 602	Mohall	ND	58761-0602
Robert & Kerry Bahl	3328 Primrose Court	Grand Forks	ND	58201
Marlo & Carolyn Brackelsberg	3474 Hwy 5 NW	Mohall	ND	58761
Bottineau County	314 W 5 th St	Bottineau	ND	58318
Road R/W Burlington Northern Property Tax Dept.	PO Box 961089	Fort Worth	TX	76161-0089
Larry & Donna Cook	PO Box 683	Mohall	ND	58761-0683
John Cook c/o Judy Duerre	9564 Co Rd 9	Mohall	ND	58761-9224
John R. Cook	PO Box 623	Mohall	ND	58761-0623
Pat Connoles	3511 Hwy 5	Mohall	ND	58761-9101
Debra Cameron	6257 N 22nd St	Arlington	VA	22205
Stacy Crooks Life Estate	425 28th Ave SW unit D	Minot	ND	58701
Cutbank Township				
Eleanor Delap	206 SE 46th Terrace	Cape Coral	FL	33904-8501
Judith Duerre	PO Box 66	Mohall	ND	58761-0066
Joseph Gehringer Trust	7709 Chapin Rd #B	Fort Worth	TX	76116-7707
Ivan Gehringer	PO Box 382	Mohall	ND	58761-0382
Edna Gilseth				
Carl Gaenslen				
Fred & Mary Gehringer	29644 Hwy 58	Barstow	CA	92311
Raymond Gehringer	PO Box 382	Mohall	ND	58761-0382
Viola Halvorson	9611 Co Rd 9	Mohall	ND	58761-9222

EXHIBIT B

FirstName	Address1	City	State	PostalCode
Estate c/o Denese Prestergard				
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 Herigstad	3459 94 St NW	Mohall	ND	58761
Don Henes	PO Box 271	Mohall	ND	58761-0271
Hoffman Township				
Richard & Collen Kinzley	8915 Co Rd 9	Mohall	ND	58761-9224
Philip & Jani Kelly	4035 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	12100-132 Montecito Rd	Los Alamitos	CA	90720
Donald & Deborah Myaer	PO Box 175	Mohall	ND	58761-0175
City of Mohall	c/o City Auditor	Mohall	ND	58761
Mohall City Park District	PO Box 476	Mohall	ND	58761
Robert & Kathy Mau	58404 366 th Ave NW	Kenmare	ND	58746
Barry & Mariane Myaer	3695 96th St NW	Mohall	ND	58761-9262
Gordon Martin	#15 Clay	Irvine	CA	92720
Everett & Teri Nelson				
Marlin Nordmark	Box 395	Mohall	ND	58761
Scott	PO Box	Mohall	ND	58761-0152

FirstName	Address1	City	State	PostalCode
Reishus	152			
Harold &	104 2nd	Mohall	ND	58761
Muriel Ring	Ave NE			
Lorance	2311 C	Steilacoom	WA	98388
Schoenberg	Street			
et al				
James	10845	Sherwood	ND	58782-9625
Southam	53rd Ave			
	NW			
Sam &	3645 96th	Mohall	ND	58761-9262
Audrey	St NW			
Scott				
Loren	PO Box	Mohall	ND	58761-0575
Sundahl	575			
Earl	PO Box	Kenmare	ND	58746
Schwartz	853			
Co.				
Philip &	PO Box	Forsyth	MT	59327-1116
Renee	1116			
Steinberger				
USA Fish &	PO Box 66	Upham	ND	58789
Wildlife c/o				
J Clark				
Salyer				
Refuge				
Steven	Box 471	Mohall	ND	58761-0471
Witteman				
Farrell &	3180 Hwy	Mohall	ND	58761-9114
Sally	5 NW			
Witteman				
David	Box 309	Mohall	ND	58761
Witteman				
Witteman	3180 Hwy	Mohall	ND	58761-9114
Family	5 NW			
Partnership				
William	PO Box 96	Mohall	ND	58761-0096
Witteman				
c/o Olaf				
Reishus				
David &	9640 Co	Mohall	ND	58761-9222
Crysllynn	Rd 9			
Walker				
Robert	PO Box	Mohall	ND	58761-0214
Walker	214			
Duane				
Zimmerman				



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

ATTORNEYS AT LAW
314 EAST HAYES AVENUE
P.O. BOX 400
BISMARCK, NORTH DAKOTA 58502



TELEPHONE (701) 223-2890
FAX (701) 223-7865
EMAIL law.office@pearceandurick.com

OF COUNSEL
HARRY J. PEARCE

October 21, 2002

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

HAND DELIVERED

**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 advise.

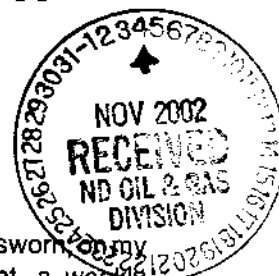
Sincerely,


LAWRENCE BENDER

LB/leo
Enclosure

cc: 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 DAKOTA)
County of Bottineau) ss
)

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 DISABILITIES: 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

I, Wanda Gravseth being first duly sworn, on my oath, say that I am the bookkeeper of The Bottineau Courant, a weekly newspaper of general circulation, published in the City of Bottineau, in said county and state, and that the advertisement headed:

Notice of Publication

a printed copy of which is here annexed, was published in the regular and entire issue of said newspaper during the period and time of publication, and that the notice was published in the newspaper proper, and not in a supplement,

for one (1) consecutive week 10-29-02 to wit:

Straight Matter Lines	<u>45</u>	<u>10-29</u>	<u>20</u>
First Time Line Rate	<u>.63</u>	<u>10-29</u>	<u>20 02</u>
Subsequent Line Rates	<u> </u>	<u> </u>	<u>20</u>
Tabulated Lines	<u> </u>	<u> </u>	<u>20</u>
First Time Line Rate	<u> </u>	<u> </u>	<u>20</u>
Subsequent Line Rates	<u> </u>	<u> </u>	<u>20</u>
Column Inches	<u> </u>	<u> </u>	<u>20</u>
First Time Inch Rate	<u> </u>	<u> </u>	<u>20</u>
Subsequent Inch Rates	<u> </u>	<u> </u>	<u>20</u>

Notary Fee Total Cost of Legal, \$ 28.35

Wanda Gravseth

Subscribed and sworn to me before this 30th day of Oct

A.D. 20 2002
Joan L. Wettlaufer
NOTARY
Public, State of North Dakota
My Commission expires June 25, 2005, 20 05

BISMARCK TRIBUNE

Printing & Publishing

PO Box 5516
Bismarck, ND 58506-5516
701-223-2500
In State 800-472-2273
Fax 701-223-4240

ADVERTISING INVOICE and STATEMENT

11/05/02		OIL & GAS	
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600 E BLVD		PO BOX 5516	
BISMARCK		BISMARCK ND 58506	

LEGAL PUBLICATIONS

INVOICE #01727051 TL

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CARD #:

EXP. DATE:

SIGNATURE:

CREDIT CARD USERS FAX TO: 701-223-4240

PLEASE DETACH AND RETURN UPPER PORTION WITH YOUR REMITTANCE

DATE	11/05/02	NEWSPAPER REFERENCE	11/05/02	DESCRIPTION	OTHER COMMENTS	CHARGES	SALE SIZE	UNITED STATES	TIME SHOWN	RATE	GROSS AMOUNT	NET AMOUNT
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11-01 01727051 RT NOTICE OF PUBLICATION

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ATTENTION PERSONS WITH DISABILITIES: 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. 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 43-02-03-88.1 authorizing the conversion to enhanced recovery into the Cedar Hills South-Red River "B" Unit, of the following wells: CHSU #43-35NH 16, NE/4 SE/4 Section 35, T.131N, R.106W, and the CHSU BW #43-35SH 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. 7938. On a motion of the Commission to consider the application of Continental Resources, Inc. for an order pursuant to North Dakota Administrative Code (NDAC) Section 43-02-03-88.1 authorizing the conversion to enhanced recovery into the Cedar Hills North-Red River "B" Unit, of the following wells: Winchester 42-17SH, SE/4 NE/4 Section 17, T.132N, R.106W, the Winchester #12-18NH, SW/4 NW/4 Section 18, T.132N, R.106W, the Little Beaver #43-24SH, NE/4 SE/4 Section 24, T.132N, R.107W, and the Little Beaver #43-24NH, NE/4 SE/4 Section 24, T.132N, R.107W, all 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. 7939. On a motion of the Commission to consider the application of Continental Resources, Inc. for an order amending the field rules for the Marquis-Madison Pool to establish a 640-acre spacing unit comprised of Section 6, T.139N, R.101W, Billings County, North Dakota, and

the proposed spacing unit boundary and/or such other and further relief as the 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 Dakota Administrative Code § 43-02-03-88.1 pooling all interests in a spacing unit for the Marquis-Madison Pool described as Section 6, T.139N, R.101W, Billings County, 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 relief as the Commission deems appropriate. Case No. 7941. On a motion of the Commission to consider the application of Continental Resources, Inc. for an order amending the field rules for the Marquis-Madison Pool to establish a 640-acre spacing unit comprised of Section 36, T.140N, R.102W, Billings County, North Dakota, and authorizing the drilling of one horizontal well within said section not less than 500 feet to the proposed spacing unit boundary and/or such other and further relief as the Commission deems appropriate. Case No. 7942. On a motion of the Commission to consider the application of Continental Resources, Inc. for an order pursuant to North Dakota Administrative Code § 43-02-03-88 pooling all interests in a 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 Dakota Century Code § 38-08-08 and 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 Marquis-Madison Pool to establish a 960-acre spacing unit comprised of the S/2 of Section 26 and all of Section 35, T.139N, R.102W, Billings County, North Dakota, and authorizing the drilling of one horizontal well within said spacing unit not less than 500 feet to the proposed spacing unit boundary and/or such other and further relief as the Commission deems appropriate. Case No. 7944. On a motion of the Commission to consider the application of Continental Resources, Inc. for an order pursuant to North Dakota Administrative Code § 43-02-03-88.1 pooling

all interests in a spacing unit for the Medora-Madison Pool described as the S/2 of Section 26 and all of Section 35, T.139N, R.102W, 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 relief as 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, 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. 7946. On a motion of the Commission to consider the application of Eagle Operating, Inc. for an order authorizing the drilling of the NW/4 of Section 19, T.160N, R.84W, North Grand-Madison Unit, Renville County, North Dakota, for the injection of fluids in the unitized formation for enhanced recovery pursuant to Section 43-02-03-88.1 and 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. Case No. 7948. On a motion of the Commission to consider the application of Tesoro High Plains Pipeline for an order allowing the use of a truck mounted Coriolis 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 for the S/2 of the Mohall-Red River Pool, Billings County, North Dakota, redefine the limits of the field, and effect such special field rules as may be necessary. (PDC Corporation) Signed by: John Hoeven, Governor, Chairman, ND Industrial Commission 11/1 - 172705

AFFIDAVIT OF PUBLICATION
STATE OF NORTH DAKOTA } SS
County of Burleigh
BEFORE ME, A NOTARY PUBLIC
WHO, DURING MY
BISMARCK TRIBUNE, I
WERE MADE THROUGH
AND SUBSCRIBED TO BY
Banda Dione
Notary Public in and for the State of

RONDA DIC
Notary Public, STAT
My Commission Exp

STATEMENT OF ACCO

CURRENT NET AMOUNT DUE

You may reach us at:

Bismarck Tr

1727051	11/05	172705-1	172705-1	OIL & GAS
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Affidavit of Publication

STATE OF NORTH DAKOTA
County of Renville ss.

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 DISABILITIES: 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. 7240. On a motion of the Commission to consider the application of Eagle Operating, Inc. for an order authorizing the drilling of the NGMU #2 well, located in the SE/4 of the SW/4 of Section 19, T.160N., R.84W., North Grano-Madison Unit, Renville County, North Dakota, for the injection of fluids in the unitized formation for enhanced recovery pursuant to Section 43-02-03-88.1 and

LaVonne L. Erickson, of said County and State, being first duly sworn on oath says: That THE RENVILLE COUNTY FARMER is a weekly newspaper of general circulation, printed and published in the City of Mohall, in said County and State, by LaVonne L. Erickson, and has been such newspaper during the times hereinafter mentioned, and that I, LaVonne L. Erickson the undersigned, Owner/Manager/Publisher of said newspaper, have charge of the advertising department thereof, and have personal knowledge of all the facts stated in this affidavit and that the advertisement headed

Notice of Publication

a printed copy of which is hereto attached, was printed and published in the said newspaper for One successive issues, as follows:

Straight Matter Lines	<u>61</u>	
First Time Line Rate	<u>.53</u>	<u>Oct. 30</u> , 2002
Subsequent Line Rates		, 2002
Tabulated Lines		
First Time Line Rate		, 2002
Subsequent Line Rates		, 2002
Column Inches		
First Time Inch Rate		, 2002
Subsequent Inch Rates		, 2002

that the full amount of fees for publishing same, to-wit; the sum of \$ 32.33 insures solely to the benefit of the publisher of THE RENVILLE COUNTY FARMER; that no agreement or understanding for a division thereof has been made with any other persons, and that no part thereof has been agreed to be paid to any person whomsoever.

LaVonne L. Erickson

Subscribed and sworn before me this 21st day of

Nov.

A.D. 2002.

Chapter 43-02-05 of the North Dakota Administrative Code, and providing such other and further relief as the Commission deems necessary.

Signed by,

John Hoeven, Governor
Chairman, ND Industrial Commission

52c

Renae M. Johnson

Notary Public, North Dakota.

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