

GOO E BOULEVARD AV BISMARCK, ND 58501

ERMIT NO.:	7 01			•	1	, ,	. ′				
HOT HOLE OPERATION	<u>1 - 0081</u> DNS:				•NON-EX	LOSIVE O	PERATION	S:		<del></del>	
	Yes										
SECTION 1											
SEOPHYSICAL CONT	RACTOR	ritas	D G C	100	d						
ROJECT NAME AND	NUMBER:	oudes	_		COUNTY	S):	Lan	2,0			
TOWNSHIP(S):		_	_		RANGE(S)	):					
DRILLING & PI,	145 4 UGGTNG CONT	TRACTORS:									
DATE COMMENCED			Expl	oruti	on Dr Date co	-,////\d MPLETED:	¥				
DATE COMMENCED	Sept 1	6, 200	3				Oct	22,	2003	_	
SECTION 2											
FIRST S.P. #:	3 <i>D</i>				LAST S.P. #:						
LOADED HOLES (UN	DETONATED SH	OT POINTS)									
ŝ.P. #'s.					Ţ				T	T -	
CHARGE SIZE:.											
WIANGE SIZE,					ļ		_			-	
DEPTH											
REASONS HOLES WE	RE NOT SHOT:	۸		1 :		,	,	0	0 0	11	
		Anomo	_								
		blowo	J+5.	crat	er 4	Une	xploc	led	charg	<b>c</b> s.	
			,				·				
1											
SECTION 3											
								, -			
FLOWING HOLES S.P.#'s	AND/OR BLOU	VOUTS:	i Din Ka	a vezeke .	. 180	Wikin					
4	nomaly	1.1	<i>#</i>	4 <b>7</b> 44 <del>7</del> 47	er ba	Y///Y/	(				
#	nomaly	115T	atra	CKEU	,						
PROCEDURE FOR	PLUGGING FLO	WING HOLES	: AND/OF	K BLOWO	uTS:						
			* *	. 4		, <u>,</u>	).l	. تم) م	c .tec		
F	=xplora+1	en Dri	lling	$\omega H$	re-	VISIT	ナル	, <u>)</u> _	> ( ' C 3		

Shot hole, SP #\_line #, and lega-location

Include a 7.5 minute USGS topographic quadrangle map or a computer generated post-plot rousimile of the approximate scale displaying each individual

## AFFIDAVIT OF COMPLETION (GEOPHYSICAL CONTRACTOR)

STATE OF NORTH DAKOTA )
COUNTY OF Mckenzie
Before me, Danell Dangherky, a Notary Public in and for the said
County and State, this day personally appeared Duane Junes Meyer who
being first duly sworn, deposes and says that (s)he is employed by Verstas Doc. Land
Century Code Section 38-08.1, that the foregoing seismic project has been completed in
accordance with North Dakota Administrative Code Rule 43-02-12 and that the statements on
the reverse side of this document are true.
Why
Beophysical Contractor Representative
Subscribed in my presence and sworn before me this 13 day of November , 2003.
Notary Public Alan ( Alan )
DANELL DOUGHERTY DAKOTA
DANELL DOUGHERTY  Notary Public. STATE OF NORTH DAKOTA  NOTARY PUBLIC DAKOTA
My Commission Expires



#### **Dynamite Anomalies**

Program: Rhisades 3-D Job Number: 58326

	Swath Number	Problem	Dritter	Blow Out	Plugged	Convents
19011429	Swath 14	Bed Cap	Yanttook Jr.			
54401378		117-1111		Blowout	Yes	
84481377				Biowout	Yes	
34481376				Biowaut	Yes	
84371364				Biswout	Yes	
84371381				Biowaut	Yes	
84371362				Storegut	Yes	
54371363				Bitmenut	Yes	
54211379				Creter	Yes	-
54011374				Bitwout	Ten	
34451363				Brownst	Yes	
64131361				Drend	Yes	
54131362				Stoward	Yes	
54211372	Swath 3			Birwayt	Yes	Small grass fire - Shooter contained
54271368				Biowaut	Yes	2001 2001 11 200001 11 11 1000
54371366				Biowaut	Yes	
14371367				Bloomut	Yes	
54121366				Bioresul.	Yes	
54121368				Biownut	Yes	
54031387				Blowaut	Yes	
54131371				Bloward	Yes	
\$4831386				Crater	Yes	_
54121326				Director	Yes	
\$4131365				Blowout	Yes	
54061581				Blowout	Yes	
54031363				Blowout	Yes	
88871479				Diownut	Yes	
80917478		Bad Cap				50 60 61 61
15251464						



#### **GEOPHYSICAL EXPLORATION PERMIT**

INDUSTRIAL COMMISSION OF NORTH DAKOTA OIL AND GAS DIVISION 600 EAST BOULEVARD DEPT 405 BISMARCK, ND 58505-0840 SFN 51459 (03-2003)

9920212223337	,
APR 2003	158
P REULIVED	28

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1) a. Company	s DGC L	AND	_	511 16	th 5th	EE T	· , 50	I E	300	Den	ver, co 8020
Contact	r HOEUN		Teleph	nori <del>d</del>	573-7		•	Fax			-9390
Surety Company	Ius. Co. or			Amount 15	50,00	099	•	Bond Nun		7667	786
2) a. Subcontracto	r(s)		Addres			_		Telephone		100	2271
EXPLORAT	ION DRI	utug, la	<u>4 K</u>	WIE Z	Box 215,	) DXP	uey,MT	4	<u>406-</u>	<u>-482.</u>	-3356
b. Subcontracto		,	Addres	ss	,	59	1290	Telephone	e		
c. Subcontracto	(e)x		Addres	22				Telephone	ө		
3) Party Manager	,		Addre	R.R	2	<u> </u>		Telephone	Α		
KIM H	ARTZELL		511	16#5	St. Ste 3	$\infty$	aver co 30202	3	03-	573-	701/ ×233
4) Project Name or	r Line Numbers					<u>,                                     </u>					
KHOA	NES 31	S Cualacius	2D 2D)								
5) Exploration Met	7.1		20, 30)								
6) Approximate Dri	Mole -	<u> </u>			lAnn	roximate	Completion	n Date			
	5,200	3			1,44		<b>Q</b>				
	IISSION MUST B		AT LEA	ST 24 HO	JRS IN ADVA	NCE O	F COMME	NCEMEN	T OF DR	ILL/PLUG	OPERATIONS
7) Location of Prop	osed Project - Co	ounty _			_						
		M	T-	uzie	Co.				ı		
Section(s)	, Township(s) & Ra	ange(s)	Sec.	32-3	3 <i>4</i>	т.	1461	U		R. 10	ow
			Sec. 2	3-5,8-	-10 22, 2 <b>9</b> -	10 T.	145	A)		R. //	ow
			Sec.	11, 20	~~, ~ <sub>1</sub> -	T.				R.	
			Sec.			T.				R.	
0) Cime of Hate	Amé of Charma	Don# Ch	oto non l	No. of Mi					4 N- 4-	Die Die	
8) Size of Hote	Amt of Charge		ots per (sq.mi.)	No. of Mi. (sq.mi.)	Geophysic		<u>dentifviла м</u> a. Plugg			metallic Plud ugger ID	c. Plugger ID
4 孝"	5 485	60°  ~;	72/59.	12.5	VDG	<u>.</u>	ED	I			
9) Anticipated spec					100						,
	ANTICI										
10) Enclose a pre-	plot map with prop	MAP F	of seism	ic program I	LOCATI	der mag. COUS	- Pow	der M	lag. L	LOCATI	ON YET TBO
Signed		a. 5	Title O(	PERRISI	بهجارک جدیر	evisi	e /Geor	Date	4/	11/03	3
	(This sp	ace for State	office us	50)			<u> </u>	Condi	itions of A	pproval it a	ny
Permit No. 97	9081		Арргоч	val Date	73/03						enty and
Approved by	uil C. Hu	du ,				the	1 state	fell u	nysector	Tou Tore	teason C
Title	und Regula	iter Le	serus	à.		يما	want an	el varia	nes M	when	lus led eyen
County Approved S	ient Mille	nyi Co.				n	sunt u	nd 556	-101 14	harld du	enter w
		roys co.					<u>eu</u>	epetition	My	9. ell	Wheh 4/13/03

### **3D FIELD DESIGN**





DATE:

11-Apr-03

CamWest Exploration LLC

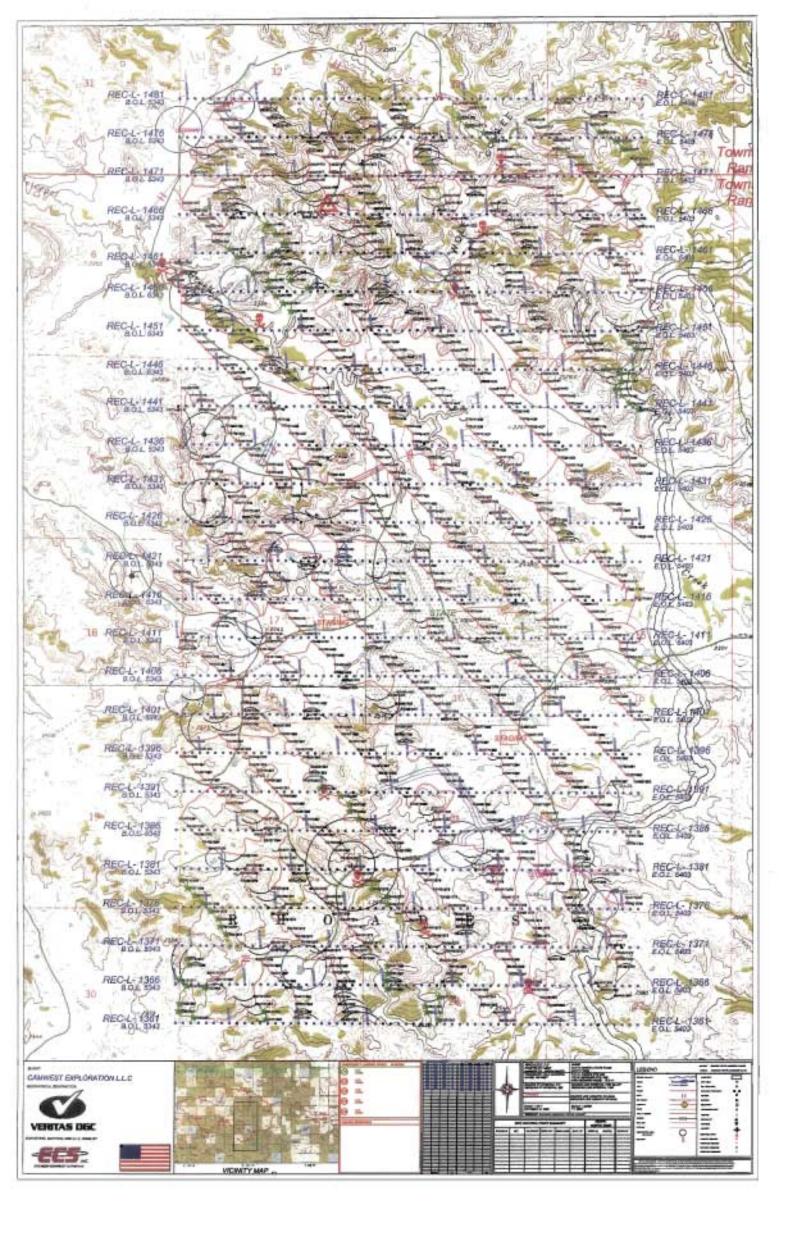
OFFSET 5 0 - 12301 ft

FOLD

36 -

CLIENT:

OLILITI. OUIIIVIOUE	<u> </u>											
PROJECT NAME:	Rhoades	3D					OPTION:	_1_	STATE:	ND	_	
LOCATION: TWP:	_145N	- 146N	_ RGE	<b>:</b> _	100W		0		COUNTY:	McKenzie		
BIN SIZE:	110	X 110	ft		DESIGN LAY	OUT:	DIAGONA	L				
SOURCE INFORMAT	ION			S	SOURCE ARE	ĒA	0	mi <sup>2</sup>		Federal Surface		Federal Minerals
LINE ORIENTATION:				_			NW - SE		-			
SOURCE INTERVAL:				_			311.127	ft	220ft @ 45 deg	rees		
SOURCE LINE INTERVAL	L:			_			1244.508	ft	1760ft @ 45 degree	<b>:</b>		
NO. SOURCE POINTS:				_	<del></del>		900			756		459
NO. OF SOURCE LINES:				_			23					
MILES OF SOURCE LINE	Ė			_			51.678	mi		43.19	mi	25.69
SOURCE TYPE:							DYN		5lbs @ 40ft/60ft			
RECEIVER INFORMA	TION			R	RECEIVER AF	REA	12.5	mi <sup>2</sup>				
LINE ORIENTATION:				_		,	E-W					
RECEIVER INTERVAL:			•	_			220	ft				
RECEIVER LINE INTERV	AL:				v		1100	ft.				
NO. OF RECEIVER POIN	TS:			_	_		1525					
NO. RECEIVER LINES:				_			25		_			
MILES OF RECEIVER LIN	ΙE			_			62.500	mi				
LONGEST RECEIVER LIN	ΙE						61					
TEMPLATE PATTERN	1 INFOR	MATION										
NO. CHANNELS RECORE	)ED:						1152					
PATTERN LAY OUT:					12	х	96					
PATTERN DIMENSIONS:			N - S		12100	ft	E-W		20900 ft			
RECORDING OFFSETS:		INLINE	10450	) ft	CROSSL	.INE	6050	ft	OBLIQUE	12075 f	t	
OFFSET 1	0 -	- 8000	ft FOI	LD	23	-	26		ROLL ON	/OFF:		
OFFSET 2	0 -	- 10000	<u>ft</u> FOI	ĻD	30		33			Stations		
OFFSET 3	0 -	- 13000	ft FOI	ĻD	36	-	0			Lines Live Shoot		
OFFSET 4	0 -	. 0	<u>ft</u> FOI	LD	0		0					
			_									



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## NORTH DAKOTA INDUSTRIAL COMMISSION

## OIL AND GAS DIVISION

Lynn D. Helms DIRECTOR http://explorer.ndic.state.nd.us

Bruce E. Hicks ASSISTANT DIRECTOR

April 23, 2003

The Honorable Frances M. Olson McKenzie County Auditor P.O. Box 543 Watford City, ND 58854

RE:

Geophysical Exploration

Permit # 97-0081

Dear Ms. Olson:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that Veritas DGC Land was issued the above captioned permits on April 22, 2003 and will remain in effect for a period of one year.

Should you have any questions, please contact our office.

////1

David C. Hvinden

Geophysical Regulation Supervisor

DCH/dh

### NORTH DAKOTA INDUSTRIAL COMMISSION

# OIL AND GAS DIVISION

Lynn D. Helms DIRECTOR http://explorer.ndic.state.nd.us

Bruce E. Hicks ASSISTANT DIRECTOR

April 22, 2003

Scott Hoenmans Veritas DGC Land 511-6<sup>th</sup> St Ste 300 Denver CO 80202

RE: GEOPHYSICAL EXPLORATION PERMIT NO. 97-0081

**RHOADES 3D** 

MCKENZIE COUNTY NORTH DAKOTA

Dear Mr. Hoenmans:

This letter will verify the approval of the above-captioned Geophysical Permits effective April 22, 2003.

Please feel free to contact Mr. David Hvinden, Geophysical Regulation Supervisor if you should have any questions.

Sincerely,

Marge Rixen Legal Assistant

/mr

Enc.