



PERMIT NO.: 97-0057

SHOT HOLE OPERATIONS: 60 ft 5# *NON-EXPLOSIVE OPERATIONS:

SECTION 1

GEOPHYSICAL CONTRACTOR: RELIABLE EXPLORATION, INC.

PROJECT NAME AND NUMBER: LUFF - MRNAC 3-D COUNTY(S): Bowman

TOWNSHIPS(S): T 130, 131 N RANGE(S): R 102, 103 W

DRILLING & PLUGGING CONTRACTORS: TCS Drilling Buckskin Services, Inc.

DATE COMMENCED: 2/07/01 DATE COMPLETED: 3/19/01



SECTION 2

FIRST S.P. #: Total 402 SPS LAST S.P. #:

LOADED HOLES (UNDETONATED SHOT POINTS)

S.P. #'s:																				
CHARGE SIZE:																				
DEPTH:																				

REASONS HOLES WERE NOT SHOT:

SECTION 3

FLOWING HOLES AND/OR BLOWOUTS:
 S.P.#'s 537101, 531104, 537150 (see attached report)

PROCEDURE FOR PLUGGING FLOWING HOLES: AND/OR BLOWOUTS:
 re-plugged according to state specs

Include a 7.5 minute USGS topographic quadrangle map or a computer generated post-plot facsimile of the approximate scale displaying each individual shot hole, SP #, line # and local location.

*Non-Explosive Operations - Complete Section 1 and Affidavit.

AFFIDAVIT OF COMPLETION (GEOPHYSICAL CONTRACTOR)

Montana

STATE OF ~~NORTH DAKOTA~~)

)

COUNTY OF Yellowstone)

Before me, MaryBeth Barnby, a Notary Public in and for the said County and State, this day personally appeared Allen Rein who being first duly sworn, deposes and says that (s)he is employed by Reliable Exploration, Inc. 868 Parkway Lane Billings, MT 59101, that (s)he has read North Dakota 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.

Allen Rein
Geophysical Contractor Representative

Subscribed in my presence and sworn before me this 15th day of May, 2001.

Notary Public MaryBeth Barnby

My Commission Expires 4-15-04

**MRNAK 3-D - RELIABLE EXPLORATION, INC.
LUFF PETROLEUM
BOWMAN CO., ND
INSTRUMENT PROBLEMS/JOB SUMMARY**

CLIENT: LUFF PETROLEUM
PROSPECT: MRNAK 3-D BOWMAN Co., ND
CLIENT REP: DARRELL HOLM
2220 BOULDER DRIVE
BILLINGS, MT 59102
PHONE: 406-656-0786

RELIABLE EXPLORATION, INC.
PARTY 3 & 4
868 PARKWAY LANE
BILLINGS, MT 59101
PHONE: 406-259-1860/ FAX406-259-8589

RECORDING PARAs: FILs- 18/128/NOTCH OUT
REC LENGTH- 4sec/ 220' Grps-220' Sps
GEOPHONES: 6- L21As, 12' CIRCLE

FIELD OFFICE PHONE: 406-698-3892 / 406-670-5666
FIELD OFFICE FAX: 701-523-5641 RM 9

RECORDS TO: TRICON GEOPHYSICAL
475 17th STREET, SUITE 600
DENVER, CO 80202
ATTN: TIM MCFADDIN

FIELD OFFICE:
NORTHWINDS LODGE
BOX 500 US HWY 85 SOUTH
BOWMAN, ND 58623
PHONE: 701-523-5641

SURVEY BY: ECS

DRILLED BY: TCS DRILLING

DATE	SOURCE PT	PROBLEM ENCOUNTERED / SUMMARY DESCRIPTION
3/16/01	528111 537102	FN 004 - MASTER - NO START; LINES 155, 149, 143, 137 & 131. FN 079 - SLAVE # 1 - NO START; LINES 125, 119, 113, 107 & 101

JOB SUMMARY - PRODUCTION REPORT

	HOURS	
3/10/01	8	WENT OUT @ 6:00 AM; STARTED LAYING OUT ON MRNAK 3-D; LAID OUT LINES 155, 149 & 143.
3/11/01	6.5	WENT OUT @ 6:00 AM; LAID OUT LINES 137, 131 & PART OF 125.
3/12/01	3.5	LAID OUT ON LINES 119, 113 & 125; GOT TOO WET TO WORK (6:00 AM START).
3/13/01	4.5	LAID OUT ON LINES 119, 113, 107 & 101; GOT TOO WET TO WORK (6:00 AM START).
3/14/01	4	TRYING TO LAY OUT REMAINDER OF SPREADS; TROUBLESHOOTING; GOT TOO WET (6:00 AM START).
3/15/01	7	FINISHED LAYING OUT; TROUBLESHOOTING & REPLANTING LINES DUE TO THAWING CONDITIONS.
3/16/01	8.5	STARTED SHOOTING ON PROSPECT; RECORDED 235 SHOTS (6:00 AM START).
3/17/01	6	RECORDED 123 SHOTS (6:00 AM START).
3/18/01	7	RECORDED 44 SHOTS COMPLETING PROSPECT; STARTED PICKING UP GEOPHONES; TOO WET TO DRIVE ON PROSPECT (6:00 AM START).

BLOWOUTS

3/16/01	537107 531104 537150	
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TOTAL HOLES SHOT-402



LUFF OIL AND GAS



SOURCE LINE SUMMARY				RECOVER LINE SUMMARY			
LINE NO.	S.O.L.	E.O.L.	#	LINE NO.	S.O.L.	E.O.L.	#
801	01	04	24	101	01	03	24
804	07	10	24	107	01	03	24
807	01	04	24	110	01	03	24
810	07	10	24	116	01	03	24
813	01	04	24	119	01	03	24
816	07	10	24	123	01	03	24
819	01	04	24	126	01	03	24
822	07	10	24	131	01	03	24
825	01	04	24	137	01	03	24

HAZARD REGISTER
 WILDFIRE ON HIGHWAYS
 OVERHEAD POWERLINES
 USE YOUR PPE



SUNDRY NOTICE
INDUSTRIAL COMMISSION OF NORTH DAKOTA
 OIL & GAS DIVISION
 SFN 51458 (11-97)



PERMIT # 57
600 E. BOULEVARD AVE.
BISMARCK, ND 58505

Project Name: MRNAK 3-D	Luff Exploration
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County: Bowman County, ND

Supplemental Information:

To update the report on the MRNAK 3-D job that Buckskin plugged holes on from 2-7-01 to 2-15-01. They had plugged 402 holes and used 1328 bags of Bentonite. We ended up with 3 blowouts, numbers 537107, 531104 & 537150. There were no bad caps. Due to wet weather conditions the blowouts have not been re-plugged. We will get this done when weather permits.

Company:			FOR OFFICE USE ONLY
Address:			
City:	State:	Zip Code:	Date Received:
By:	Date:		By:
Title:	Telephone #:		Title:



Project Name: **MRNAK 3-D & HALEY 3-D** **Luff Exploration**

County: **Bowman County, ND**

Supplemental Information.

(57)

To update the report on the MRNAK 3-D job, Buckskin has re-plugged the holes from 3 blowouts, numbers 537107, 531104 & 537150. They used 11 bags of Bentonite and reset a plug on 507102, (58) On the HALEY 3-D there were no blowouts & two bad caps, numbers 537126 & 537138.

Company:			FOR OFFICE USE ONLY
Address:			
City:	State:	Zip Code:	Date Received:
By:	Date:		By:
Title:	Telephone #:		Title:



SUNDRY NOTICE
INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL & GAS DIVISION
 SFN 51458 (11-97)

PERMIT # 57
 600 E. BOULEVARD AVE.
 BISMARCK, ND 58505

Project Name	MRNAK 3-D	Luff Exploration
County:	Bowman County, ND	
<p>Supplemental Information:</p> <p>Buckskin plugged holes on the MRNAK 3 -D job from 2-7-01 to 2-15-01. Buckskin plugged 402 holes and used 1328 bags of Bentonite. Due to cold weather we had one hole plugger behind each drill. We will notify the ND Oil & Gas Commission if there are any blowouts or bad caps on the job when it is shot.</p>		

Company:		FOR OFFICE USE ONLY	
Address:			
City:	State:	Zip Code:	Date Received:
By:	Date:		By:
Title:	Telephone #:		Title:

PERMIT NUMBER:

AFFIDAVIT OF PLUGGING (HOLE PLUGGER)

STATE OF NORTH DAKOTA)

COUNTY OF, Burke)

Before me, Paul Oberfell, a Notary Public in and for the said County and State, this day personally appeared Joyce Day who being first duly sworn, deposes and says that (s)he is employed by Buckhorn Services, that (s)he has read North Dakota Century Code Section 38-08.1 and that the foregoing seismic project has been plugged in accordance with North Dakota Administrative Code Rule 43-02-12 and that the statements on the attached documents are true.

Joyce Day
Hole Plugger Representative

Subscribed in my presence and sworn before me this 28 day of February, 2011.

Notary Public Paul Oberfell

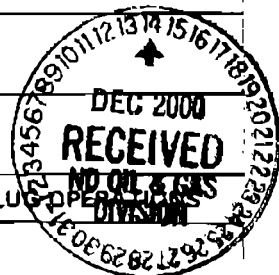
My Commission Expires 8-12-03



GEOPHYSICAL EXPLORATION PERMIT
 INDUSTRIAL COMMISSION OF NORTH DAKOTA
 OIL AND GAS DIVISION
 SFN 51459 (11-97)

600 E BOULEVARD AVE
 BISMARCK, ND 58505

1) a. Company: RELIABLE EXPLORATION, INC.		Address: 868 Parkway Lane Billings, MT 59101	
Contact: Allen Rein, President		Telephone: (406) 259-1860	Fax: (406) 259-8589
Surety Company: Amwest Surety Company		Bond Amount: \$50,000.00	Bond Number: 03400055
2) a. Subcontractor(s): Driller <i>gr</i> TCS Drilling Co		Address: PO Box 574 Sidney, MT 59270	Telephone: (406) 482-7769
b. Subcontractor(s): Plugger <i>gr</i> Buckskin Services, Inc.		Address: 919 - 12th St SW Sidney, MT 59270	Telephone: (406) 482-1143
c. Subcontractor(s):		Address:	Telephone:
3) Party Manager: Douglas Wick		Address: PO Box 741 Sidney, MT 59270	Telephone: (406) 482-4092
4) Project Name or Line Numbers: LUFF EXPLORATION - MRNAC 3-D PROSPECT		cell (406) 698-3892	
5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D): Shot Hole - 3-D			
6) Approximate Drilling Start Date: January 2001		Approximate Completion Date:	



THE COMMISSION MUST BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF COMMENCEMENT OF DRILL/PLUG

7) Location of Proposed Project - County Bowman County, ND					
Section(s), Township(s) & Range(s)		Sec. 31	T 131 N	R 102 W	
		Sec. 5,6,7,8,18	T 130 N	R 102 W	
		Sec. 1,12,13	T 130 N	R 103 W	
		Sec.	T	R	
8) Size of Hole	Amt. of Charge	Depth	Shots per Mi. (sq.mi.)	No. of Mi. (sq. mi.)	Identifying Marks Used on Nonmetallic Plug
4 3/4	5#	60 ft	24	4 sq	Geophysical ID a. Plugger ID b. Plugger ID c. Plugger ID
					REL REL REL

9) Anticipated special drilling and plugging procedures?
according to State Specs

10) Enclose a pre-plot map with proposed location of seismic program lines and powder mag.
map and design attached

Signed: *Allen Rein* Title: President Date: 12/06/00

(This space for State office use)		Conditions of Approval if any: <i>57</i>	
Permit No.: <i>97-0057</i>	Approval Date: <i>12/15/00</i>	IDENTIFY SURFACE PLUGS WITH # AND DRILLER & PLUGGER ID. NOTIFY SURFACE OWNER, COUNTY, AND STATE FIELD REP PRIOR TO DRILLING. ALL VARIANCES MUST BE FURNISHED UPON REQUEST.	
Approved By: <i>David E. Hummer</i>			
Title: <i>Geophysical Regulation Supervisor</i>			
County Approval Sent: <i>Shirley Roy-Torgie - Prorum Co. 12/15/00</i>			

* See Instructions On Reverse Side

12/15/00

MRNAC
~~██████████~~ 3D SURVEY
2.75 MILES X 1.5 MILES

OPTION B

~~██████████~~ Plotted On 22 February, 2000

Shot and Receiver Layout

Data Recorded using a Standard Brick pattern

Basic Brick: 10 receiver lines with 36 channels each ██████████ channels per shot)

Receiver spacing: 220.00 Receiver Line spacing: 1320.00

Shot spacing: 220.00

Shot Line located between receiver lines 6 and 7 and between receiver position 18 and 19 with a static spread.

Maximum Offset Recorded: 16391.37

Survey Information: 12 total receiver lines with 36 locations each.

Shot Line spacing: 1320.00

Total Shots ██████████ Total Receivers ██████████

Total Shot Line length 108020

Total Receiver Line length 94820

Receiver Lines are Rotated 90.00 degrees clockwise from North

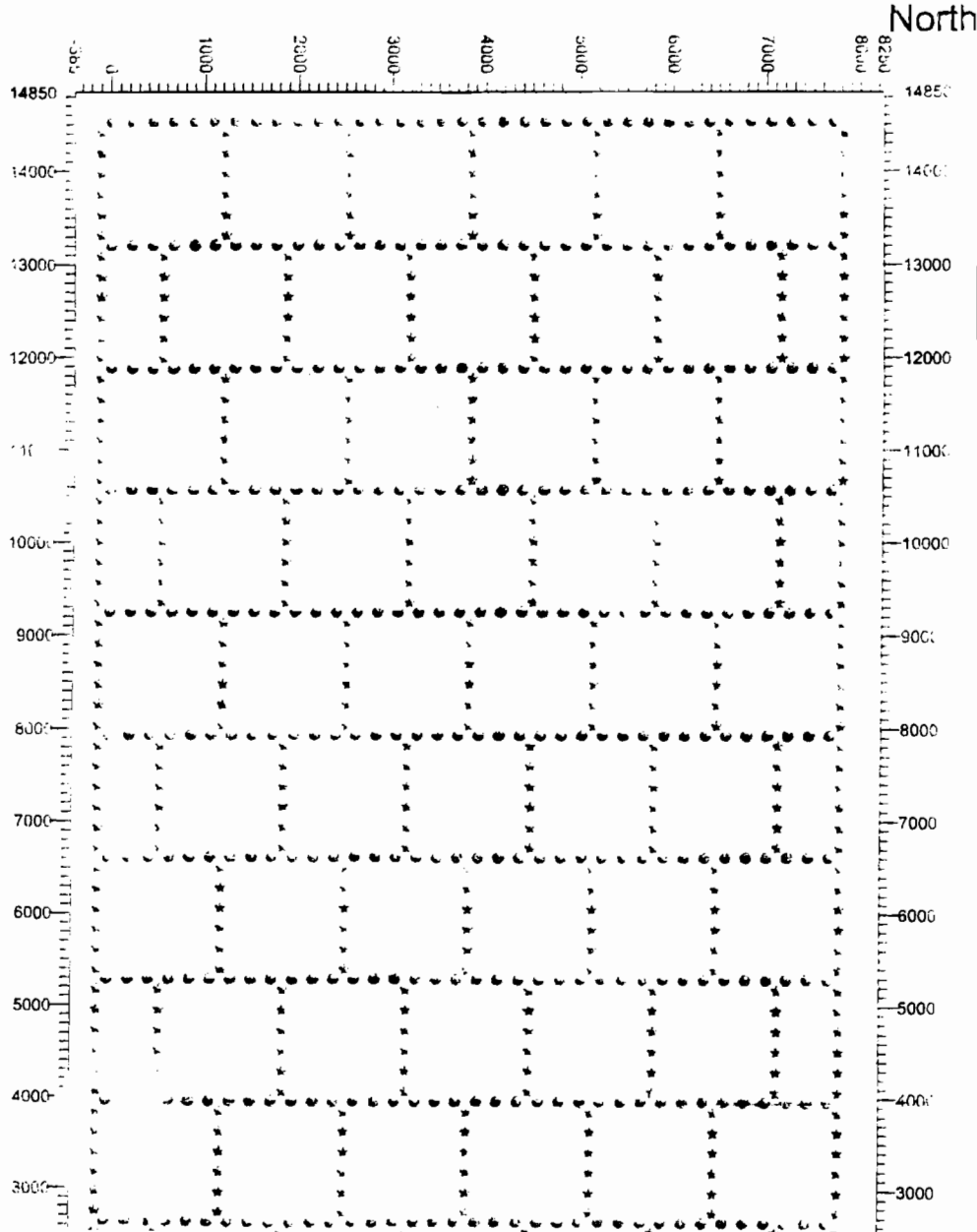
CDP Area = 132 by 72 bins (CDP Bin Size 110.00 by 110.00)

360 Rec
402 SP^s

Scale: 1 inch = 2000.00

Shot Location: ✕

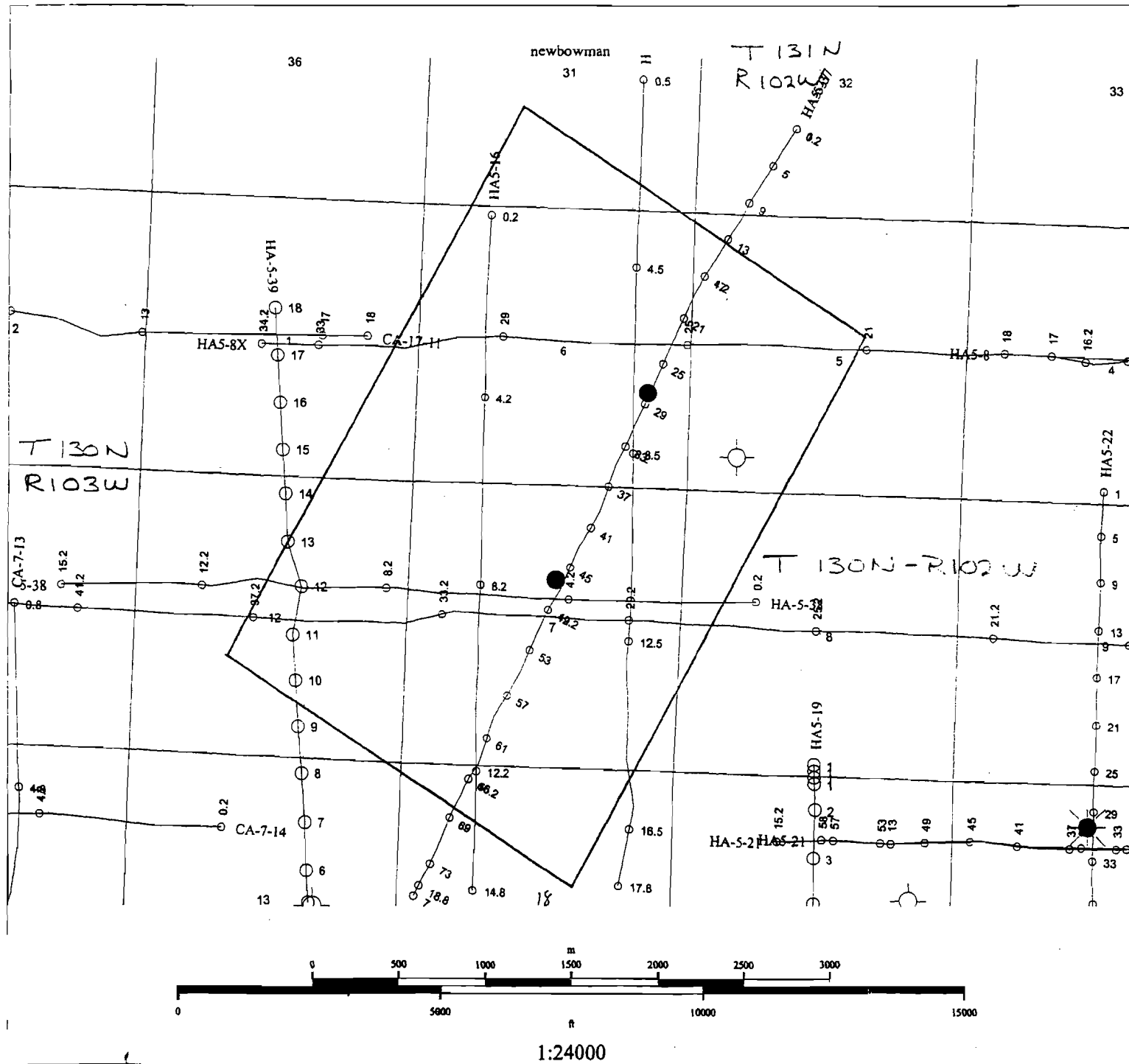
Receiver Location: ●



PROJECT INFORMATION

newbowman

DATE: Sun Sep 24 2000



Luff Exploration
Mnac Area
3D Outline

NORTH DAKOTA INDUSTRIAL COMMISSION

OIL AND GAS DIVISION

Lynn D. Helms
DIRECTOR

<http://explorer.ndic.state.nd.us>

Bruce E. Hicks
ASSISTANT DIRECTOR

December 15, 2000

Allen Rein
Reliable Exploration Inc.
868 Parkway Lane
Billings, MT 59101

**RE: GEOPHYSICAL EXPLORATION PERMIT NO. S' 970057 & 970058
MRNAC 3-D PROSPECT & HALEY 3-D PROSPECT**

Dear Mr. Rein:

This letter will verify the approval of the above-captioned Geophysical Permits effective December 15, 2000.

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

Sincerely,


Marge Rixen
Legal Assistant

/mr

NORTH DAKOTA INDUSTRIAL COMMISSION

OIL AND GAS DIVISION

Lynn D. Helms
DIRECTOR

<http://explorer.ndic.state.nd.us>

Bruce E. Hicks
ASSISTANT DIRECTOR

December 15, 2000

The Honorable Rory Teigen
Bowman County Sheriff
P.O. Box 439
Bowman, ND 58623

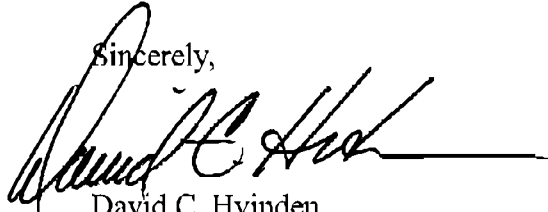
RE: Geophysical Exploration
Permit # 97-0057 and #97-0058

Dear Sheriff Teigen:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that Reliable Exploration, Inc. was issued the above captioned permits on December 15, 2000 and will remain in effect for a period of one year.

Should you have any questions, please contact our office.

Sincerely,



David C. Hvinden
Geophysical Regulation Supervisor

DCH/dh