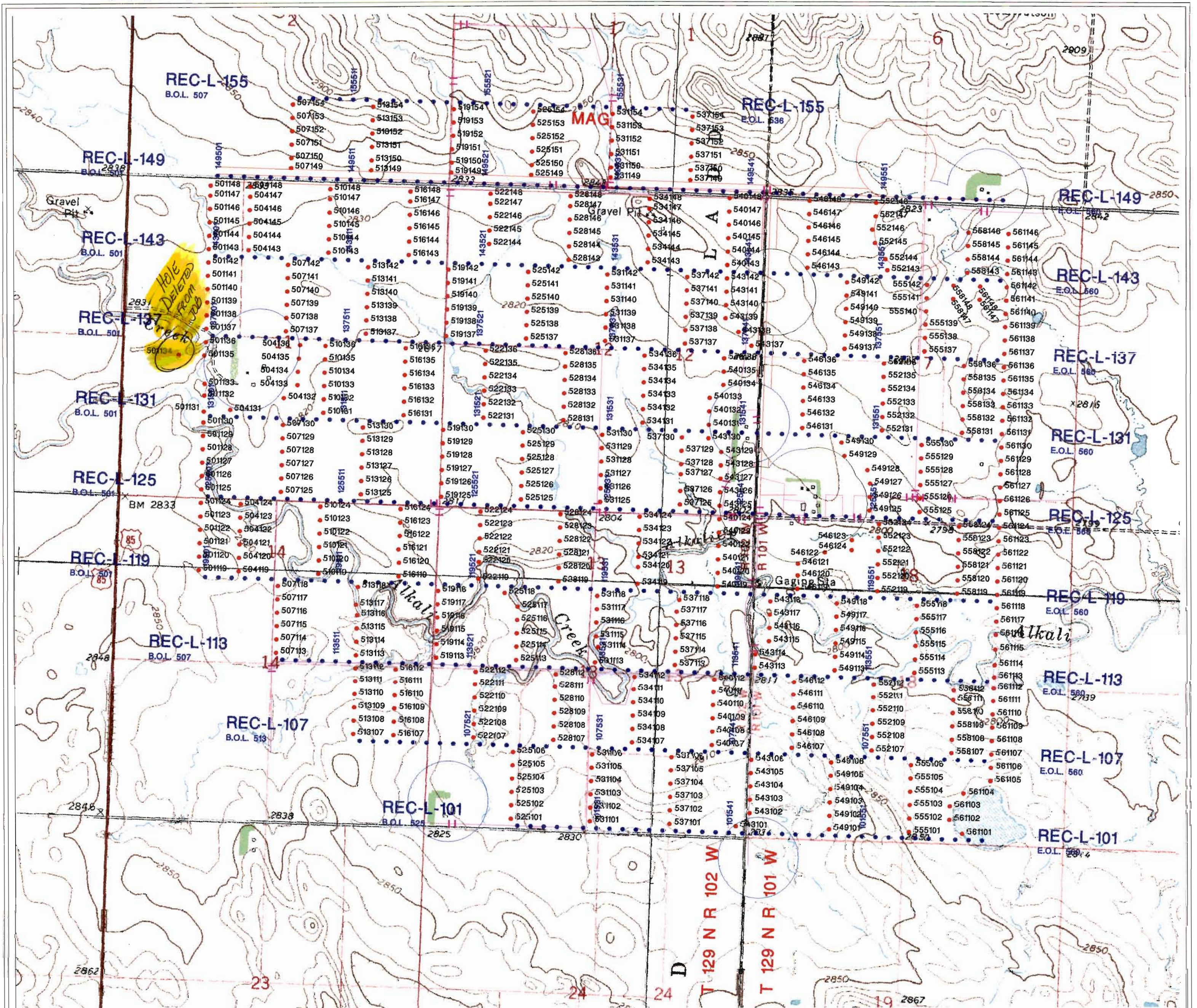


970058



CLIENT:  
**LUFF OIL AND GAS**

CONTRACTOR:  
**RELIABLE EXPLORATION INC.**

SURVEYING, MAPPING, AND CAD DONE BY:

**ECS INC.**  
ERICKSON CONTRACT SURVEYING

SOURCE LINE SUMMARY				SOURCE LINE SUMMARY (cont.)				RECEIVER LINE SUMMARY			
LINE NO.	B.O.L.	E.O.L.	#	LINE NO.	B.O.L.	E.O.L.	#	LINE NO.	B.O.L.	E.O.L.	#
501	119	148	30	531	101	154	30	101	525	560	36
504	119	148	18	534	107	148	24	107	513	560	48
507	113	154	24	537	101	154	30	113	507	560	54
510	119	148	18	540	107	148	24	119	501	560	60
513	107	154	30	543	101	142	24	125	501	560	60
516	107	148	24	546	107	148	24	131	501	560	60
519	113	154	24	549	101	142	24	137	501	560	60
522	107	148	24	552	107	148	24	143	501	560	60
525	101	154	30	555	101	142	24	149	501	560	60
528	107	148	24	558	107	148	24	155	507	536	30
			SUB. TOT. 246				561				TOTAL 528
							SUB. TOT. 300				
							TOTAL 546				

**HAZARD REGISTRAR**  
WILDLIFE ON HIGHWAYS  
OVERHEAD POWERLINES  
USE YOUR PPE

**KNOW SAFETY - NO PAIN  
NO SAFETY - KNOW PAIN**

**HALEY 3-D POSTPLOT MAP**  
BOWMAN CO., ND  
TOWNSHIP 129 N  
RANGE 101, 102 W

**MAD27 DATUM**  
NORTH DAKOTA STATE PLANE  
SOUTH ZONE  
TOTAL SOURCE PTS: 546  
TOTAL RECEIVER PTS: 528  
AREA (SQUARE MILES): 5.00 +/-

SOURCE PT INTERVAL: 220'  
RECEIVER PT INTERVAL: 220'

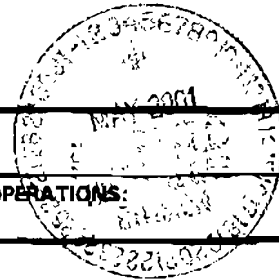
**DYNAMITE**  
SOURCE LINE INTERVAL: 1320'  
RECEIVER LINE AZIMUTH: 1-55-34 (dms)  
SOURCE LINE AZIMUTH: 91-55-34(dms)

SHEET 1 OF 1  
FEBRUARY 6, 2001

SCALE: 1:24000  
1" = 2000'

**LEGEND**

- GATE
- FENCE
- STOCK DAM
- WATERWAY
- HOUSES / OUTBUILDINGS
- OVERHEAD PWR LINES W/ 120' BUFFER
- UNDERGROUND POWER LINES
- WATER LINES W/ 150' BUFFER
- OIL WELLS
- DRY HOLE
- HAZARDS
- IMPROVED GRAVEL ROAD
- UNIMPROVED GRAVEL ROAD
- TRAIL / TRACK
- PAVED ROAD
- RECEIVER POINTS
- SOURCE POINTS
- OIL WELLS 600' BUFFER
- WATERWELLS AND SPRINGS 600' BUFFER
- HOUSES/OUTBUILDINGS 600' BUFFER



PERMIT NO.: 97-0058	
SHOT HOLE OPERATIONS: 50 ft 5#	*NON-EXPLOSIVE OPERATIONS:

**SECTION 1**

GEOPHYSICAL CONTRACTOR: RELIABLE EXPLORATION INC.	
PROJECT NAME AND NUMBER: LUFF - HALEY 3-D	COUNTY(S): Bowman
TOWNSHIP(S): 129 N	RANGE(S): 101, 102 W
DRILLING & PLUGGING CONTRACTORS: Buckskin Services, Inc. TCS Drilling Co	
DATE COMMENCED: 2/15/01	DATE COMPLETED: 4/27/01

**SECTION 2**

FIRST S.P. #: TOTAL 545 SPS	LAST S.P. #:
LOADED HOLES (UNDETONATED SHOT POINTS)	
S.P. #'s:	
CHARGE SIZE:	
DEPTH:	
REASONS HOLES WERE NOT SHOT:  ** See Job Summary Report Attached	

**SECTION 3**

FLOWING HOLES AND/OR BLOWOUTS: S.P.#'s  None
PROCEDURE FOR PLUGGING FLOWING HOLES: AND/OR BLOWOUTS:  n/a

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 legal 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 15<sup>th</sup> day of May, 2001.

Notary Public Marybeth Barnby

My Commission Expires 4-15-04

PERMIT NUMBER: **58**

**AFFIDAVIT OF PLUGGING (HOLE PLUGGER)**



STATE OF NORTH DAKOTA )  
 )  
COUNTY OF Burke )

Before me, John M. Chergoff, a Notary Public in and for the said County and State, this day personally appeared Joyce Key who being first duly sworn, deposes and says that (s)he is employed by Buckskin 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 Key  
Hole Plugger Representative

Subscribed in my presence and sworn before me this 28 day of February, 2001.

Notary Public John M. Chergoff

My Commission Expires 8-12-03



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

PERMIT # 58  
 600 E. BOULEVARD AVE.  
 BISMARCK, ND 58505

Project Name <b>HALEY 3-D</b> <b>Luff Exploration</b>
County: <b>Bowman County, ND</b>
<p>Supplemental Information:</p> <p>Buckskin plugged holes on the Haley 3- D job from 2-15-01 to 2-25-01. Buckskin plugged 545 holes and used 2486 bags of Bentonite. Due to cold weather we had one hole plugger behind each drill. We will notify the ND Oil &amp; Gas Commission if there are any blowouts or bad caps on the job when it is shot.</p>

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



Project Name:	<b>MRNAK 3-D &amp; HALEY 3-D</b>	<b>Luff Exploration</b>
County:	<b>Bowman County, ND</b>	
Supplemental Information:		
<p style="text-align: center;">(57)</p> <p>To update the report on the MRNAK 3-D job, Buckskin has re-plugged the holes from 3 blowouts, numbers 537107, 531104 &amp; 537150. They used 11 bags of Bentonite and reset a plug on 507102. On the HALEY (58) 3-D there were no blowouts &amp; two bad caps, numbers 537126 &amp; 537138.</p>		

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

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

**CLIENT:** LUFF PETROLEUM  
**PROSPECT:** HALEY 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  
**FIELD OFFICE:**  
NORTHWINDS LODGE  
BOX 500 US HWY 85 SOUTH  
BOWMAN, ND 58623  
**PHONE:** 701-523-5641

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

**SURVEY BY:** ECS

**DRILLED BY:** TCS DRILLING

DATE	SOURCE PT	PROBLEM ENCOUNTERED / SUMMARY DESCRIPTION
4/23/01	537129	FN 92 - SLAVE # 1 - NO START ( COMPUTER SYSTEM ERROR); LINES 101, 107 & 113.
	537126	FN 134 - BAD CAP.
4/24/01	528136	FN 147 - SLAVE # 2 - NO START ( DFSV'S DID NOT RUN); LINES 137, 143, 149 & 155.
	537138	FN 401 & 402 - BAD CAP.
	540120	FN 476 - SLAVE # 1 - SHOT DID NOT GO TO DATABASE; CH'S 121-240 WENT TO DAILY TAPE AS FN 475; NO DATA ON CH'S 1- 120; BAD A/D BOARD IN SYSTEM # 1.
	540121	FN 477 - SLAVE # 1 - SHOT DID NOT GO TO DATABASE; CH'S 121-240 WENT TO DAILY TAPE AS FN 475; NO DATA ON CH S 1- 120; BAD A/D BOARD IN SYSTEM # 1.
	558121	FN 535 - SLAVE # 2 - NO START; LINES 137, 143, 149 & 155.

**JOB SUMMARY - PRODUCTION REPORT**

	HOURS	
4/19/01	8	CREW MOVED TO BOWMAN; FINISHED PICKING UP MRNAK 3-D.
4/20/01	11	LAYING OUT ON HALEY 3-D PROSPECT; LAIDOUT LINES 101, 107, 113, 149 & 155.
4/21/01	4	WENT TO FIELD STARTED TO LAY OUT; WET SNOW & RAIN; COULD NOT WORK.
4/22/01	11	FINISHED LAYING OUT; LAID OUT LINES 119, 125, 131, 137 & 143; TROUBLESHOOTING SPREADS.
4/23/01	11	FINISHED TROUBLESHOOTING; <b>RECORDED 223 SHOTS.</b>
4/24/01	11	<b>RECORDED 322 SHOTS;</b> COMPLETED SHOOTING ON PROSPECT.
4/25/01		STARTED PICKING UP ON PROSPECT.

**BLOWOUTS**

NONE.

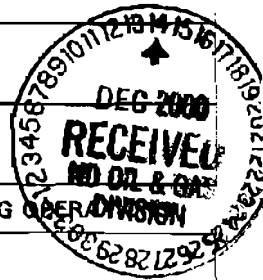
**TOTAL HOLES SHOT-545**



**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 <i>or</i>
2) a. Subcontractor(s): TCS Drilling Co <i>or</i>		Address: PO Box 574 Sidney, MT 59270	Telephone: (406) 482-7769
b. Subcontractor(s): Plugger <i>or</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 - HALEY 3-D PROSPECT		cell (406) 698-3892	
5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D): Shot Hole - 3D			
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 OPER.

7) Location of Proposed Project - County Bowman County, ND					
Section(s), Townships & Range(s)		Sec. 1,2,11,12,13,14	T 129 N	R 102 W	
		Sec. 6,7,18	T 129 N	R 101 W	
		Sec.	T	R	
		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	5.5 sq	Geophysical ID a. Plugger ID b. Plugger ID c. Plugger ID
					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.

Signed: <i>Allen Rein</i>	Title: President	Date: 12/06/00
------------------------------	---------------------	-------------------

(This space for State office use)

Permit No.: 97-0058	Approval Date: 12/15/00
Approved By: <i>David H. Hurd</i>	
Title: <i>Geophysical Regulation Supervisor</i>	
County Approval Sent: <i>Bowman County, Sheriff - Ross Legie 12/15/00</i>	

Conditions of Approval if any:  
 IDENTIFY SURFACE PLUGS WITH SB AND  
 DRILLER: PLUGGER ID NOTIFY SURFACE  
 OWNER, COUNTY: STATE REP PRIOR TO  
 DRILLING. ALL VARIANCES MUST BE  
 FURNISHED UPON REQUEST.  
*12/15/00*



# Haley 3D Survey

**GEOTRACE** Plotted On 19 October, 2000

LUFF EX.  
CO.

## Shot and Receiver Layout

Data Recorded using a Standard Brick pattern

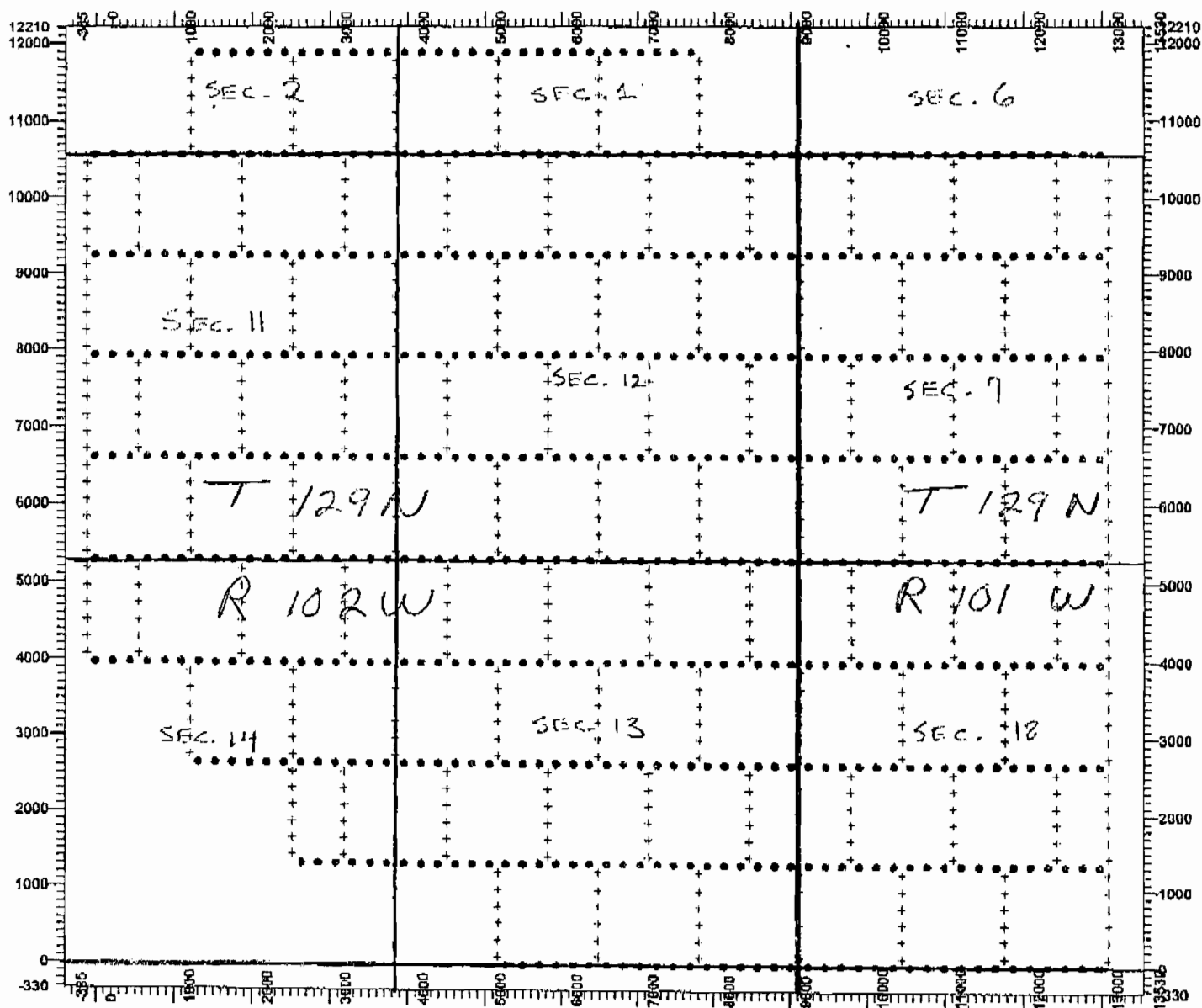
**Basic Brick:** 10 receiver lines with 60 channels each. (600 channels per shot)  
Receiver spacing: 220.00 Receiver Line spacing: 1320.00  
Shot spacing: 220.00  
Shot Line located between receiver lines 5 and 6 and between receiver position 30 and 31.  
with a static spread.

**Survey Information:** Maximum Offset Recorded: 17604.44  
10 total receiver lines with 60 locations each.  
Shot Line spacing: 1320.00  
Total Shots: 546 Total Receivers: 528  
Total Shot Line length 119900  
Total Receiver Line length 115940  
Receiver Lines are Rotated 90.00 degrees clockwise from North  
CDP Area = 108 by 120 bins (CDP Bin Size 110.00 by 110.00)

Scale: 1 Inch = 2000.00

Shot Location: + Receiver Location: ●

North



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

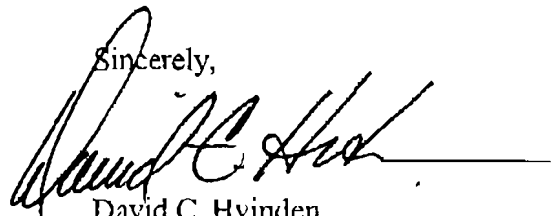
RE: Geophysical Exploration  
Permit # 97-0057 and #97-0058

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