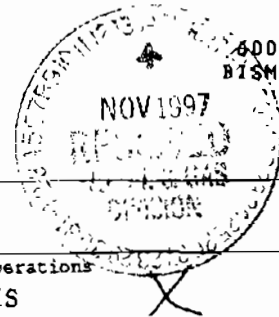


SEISMIC COMPLETION REPORT
 INDUSTRIAL COMMISSION OF NORTH DAKOTA
 OIL AND GAS DIVISION
 SFN



600 EAST BOULEVARD
 BISMARCK, ND 58505

Permit No. 97-0004	
Shot Hole Operations NA	*Non-Explosive Operations VIBROSEIS
1) Geophysical Contractor LOCKHART GEOPHYSICAL COMPANY - 370 - 17TH STREET, SUITE 3690, DENVER, CO 80202	
Project Name and/or Number LITTLE MISSOURI UNIT (JOB#795)	County(s) BOWMAN
Township(s) 129/130N	Range(s) 106W
Permitted By GLENDA MITCHELL	
Date Commenced 8/14/97	Date Completed 8/28/97
2) First S.P. # NA	Last S.P. # NA
Loaded Holes (undetonated shot points) NA	
S.P.#'s	NA
Charge size	NA
Depths	NA
Reasons holes were not shot: VIBROSEIS	
3) Flowing holes: S.P.#'s NA	
Procedure for plugging flowing holes: NA	
4) Blown out holes S.P.#'s NA	
Were all blown out holes plugged and by whom? NA	
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)


STATE OF NORTH DAKOTA)
)
COUNTY OF _____)

Before me, MICHAEL J. COMEAU, a Notary Public in and for the said County and State, this day personally appeared RICHARD L. LOCKHART who being first duly sworn, deposes and says that (s)he is employed by LOCKHART GEOPHYSICAL COMPANY, 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.



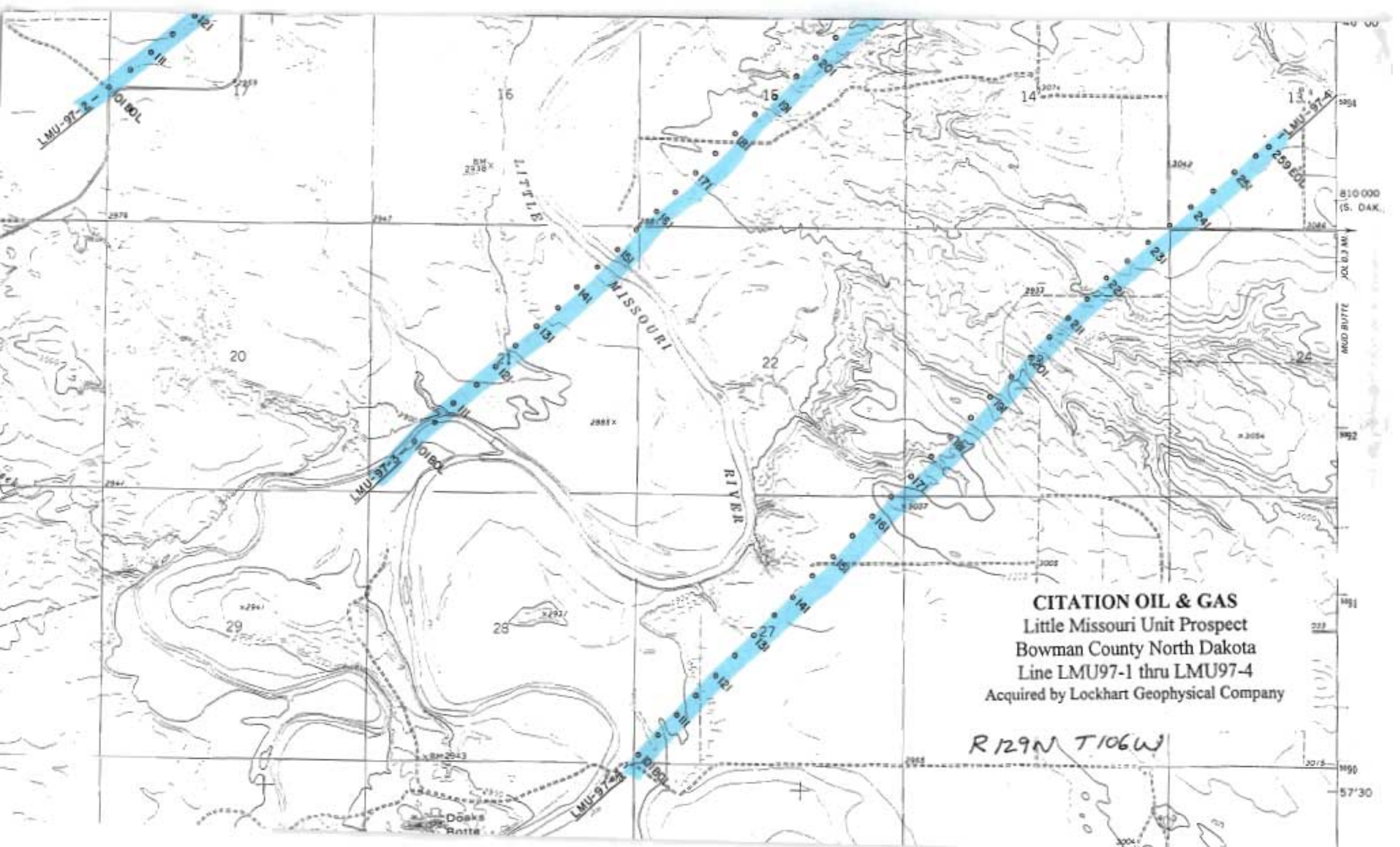
Geophysical Contractor Representative

Subscribed in my presence and sworn before me this 10TH day of NOVEMBER, 1997.

Notary Public 

My Commission Expires _____

My Commission Expires 3/20/99



LMU-97-1
121
111

LMU-97-3
111
121

LMU-97-4
111
121

LMU-97-2
121
111

CITATION OIL & GAS
Little Missouri Unit Prospect
Bowman County North Dakota
Line LMU97-1 thru LMU97-4
Acquired by Lockhart Geophysical Company

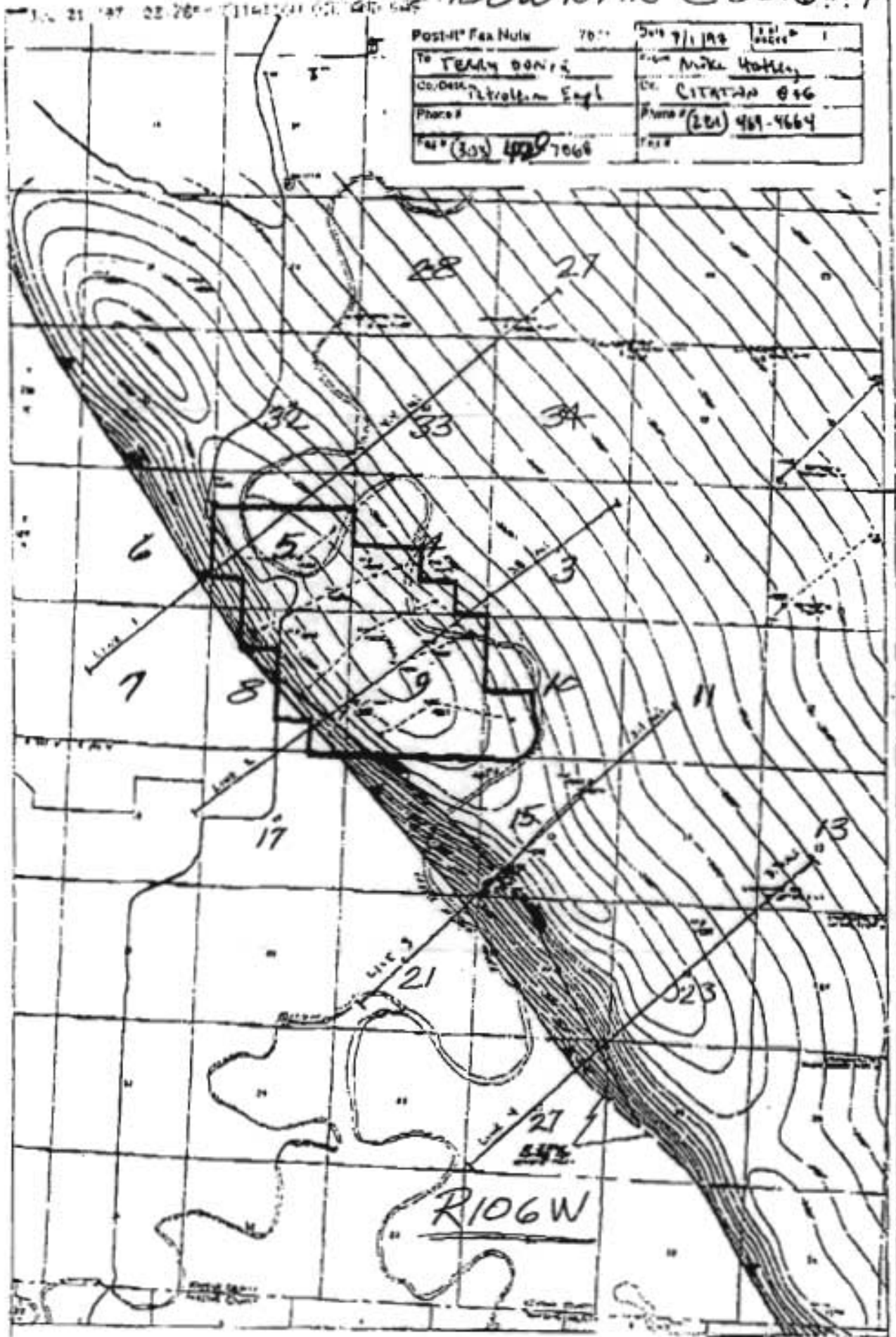
R129N T106W

810 000
(S. DAK.)
JUL 03 AM
MUD BUTTE
1892
1891
1890
57'30

LIT 11030011 11111

BOWNAN COUNTY

Post-Net Fax Note	7011	Date 7/1/88	Sheet 1
To TERRY BONIS		From Mike Hatten	
Co. Desk	Retrol. on Encl	Co. CITATION 816	
Phone#		Phone# (201) 481-4664	
Fax# (303) 482-7068		Fax#	

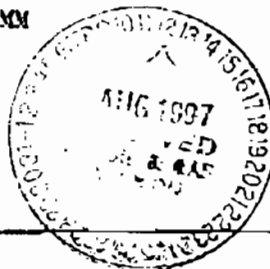


T
130
N

T
129
N

Lockhart # 970004

APPLICATION FOR PERMIT TO ENGAGE IN GEOPHYSICAL EXPLORATION INDUSTRIAL COMMISSION OF NORTH DAKOTA



OIL AND GAS DIVISION 408 E BOULEVARD AVE BISMARCK, ND 58505

LOCKHART GEOPHYSICAL COMPANY

1) a. Company 370 - 17TH STREET, SUITE 3690, DENVER, CO 80202

b. Permanent Address & Telephone Number RICHARD L. LOCKHART (H) 303-388-3871 (OFFICE) 303-592-5220

c. Name & Telephone Number of Company Representative LIONEL R. SAND

2) Registered Agent & Address 416 4TH STREET, P.O. BOX 321

3) a. Surety Company & Address NEW TOWN, ND 58763-0321

b. Bond Type & Number Shot-Hole \$50,000 No. N/A Non-Explosive \$25,000 No. X Driller/Hole Plugger \$10,000 No. N/A

c. Bond Expiration

4) a. Subcontractor (check) Driller N/A Hole Plugger N/A

b. Permanent Address & Telephone Number N/A

c. Name & Telephone Number of Company Representative N/A

5) a. Surety Company & Address N/A

b. Bond Number N/A Expiration N/A

6) Location of Proposed Project

County(s) BOWMAN COUNTY, ND

Section(s), Township(s) & Range(s) Sec. 3,4,5,6,7,8,9,11,13, T 129N R 106W

Sec. 15,21,23,27, T 129N R 106W

Sec. 27,33,32 T 130N R 106W

Table with 6 columns: Side of Hole, Amount of Charge, Depth, Shots Per Mile, Number of Miles, Identifying Marks Used on Non-metallic Plug. Values: N/A, N/A, N/A, N/A, 14.6, N/A

8) a. Proposed hole plugging procedure. N/A

b. If other than shot-hole describe method of geophysical operation. N/A (VIBRATOR)

9) a. Project Name or Line Numbers b. Approx. Date Work Will Start c. Approx. Date of Completion LITTLE MISSOURI UNIT AUGUST 14, 1997 AUGUST 25, 1997

10) Enclose a Bureau of Land Management Map (1" = 2 Miles) with proposed line on it.

SIGNED [Signature] TITLE PRESIDENT/OWNER DATE 8/12/97

(This space for State office use) PERMIT NO. 97-0004 DATE 8/12/97 APPROVAL DATE 8/12/97 CONDITIONS OF APPROVAL IF ANY: see attached conditions re: evah land and narrow agreement w/ BLD - NDIC CR/668

LOCKHART FIELD PARAMETER

CLIENT: **CITATION OIL & GAS CORPORATION**

8223 Willow Place South, SUite 250
Houston, Texas 77070-5623

CONTACT: Robert Unger Bus: 281-469-9664 Fax: 281-469-1184

CONSULTANT: Terry Donze Bus & Fax: 303-420-7868

PROSPECT: **LITTLE MISSOURI UNIT** JOB NUMBER: 795

LOCATION: **T129S R106W** **BOWMAN COUNTY, NORTH DAKOTA**

LINE NUMBER OR DESTINATIONS: **LMU97-1, LMU97-2, LMU97-3, & LMU97-4**
(See Map For Instructions)

NUMBER OF LINES: 4 CDP COVERAGE: 3000%

APPROX. START: 7/15/97 APPROX. DAYS: 7 APPROX MILES: 14.60

TYPE OF INSTRUMENTS: TEXAS INST. DFS-V W/MICRO-MAX COMPUTER

NUMBER OF CHANNELS: 120 NUMBER OF STATION GAP: 5 STAT.

GEOPHONE INTERVALS: 110' VIBRATOR INTERVAL: 220'

TYPE OF GEOPHONES: 10 HZ. MARK PRODUCTS L10A GEOHPONES, 12 GEOPHONES/STATION
(ACROSS FLAG)

LO CUT: 12 HZ SLOPE: 18 DB HIGH CUT: 128 HZ SLOPE: 70 DB

NOTCH FILTER: OUT RECORD LENGTH: 3 SEC SAMPLE RATE: 2 MIL.

GEOPHONE PATTERN: 12 PHONES/110'ACROSS FLAGS, 55' SPACING

VIBRATOR PATTERN: 2-2-2-2-2 EACH VIB/7.5' MOVE UP 3 VIBES ACROSS THE FLAGS

SWEEP LENGTH: 12 SECONDS 10 OR 12 SWEEPS/VIB 3 VIBES

SWEEP FREQUENCY: 12-128 HZ NONLINEAR SWEEP: 3DB/OCT

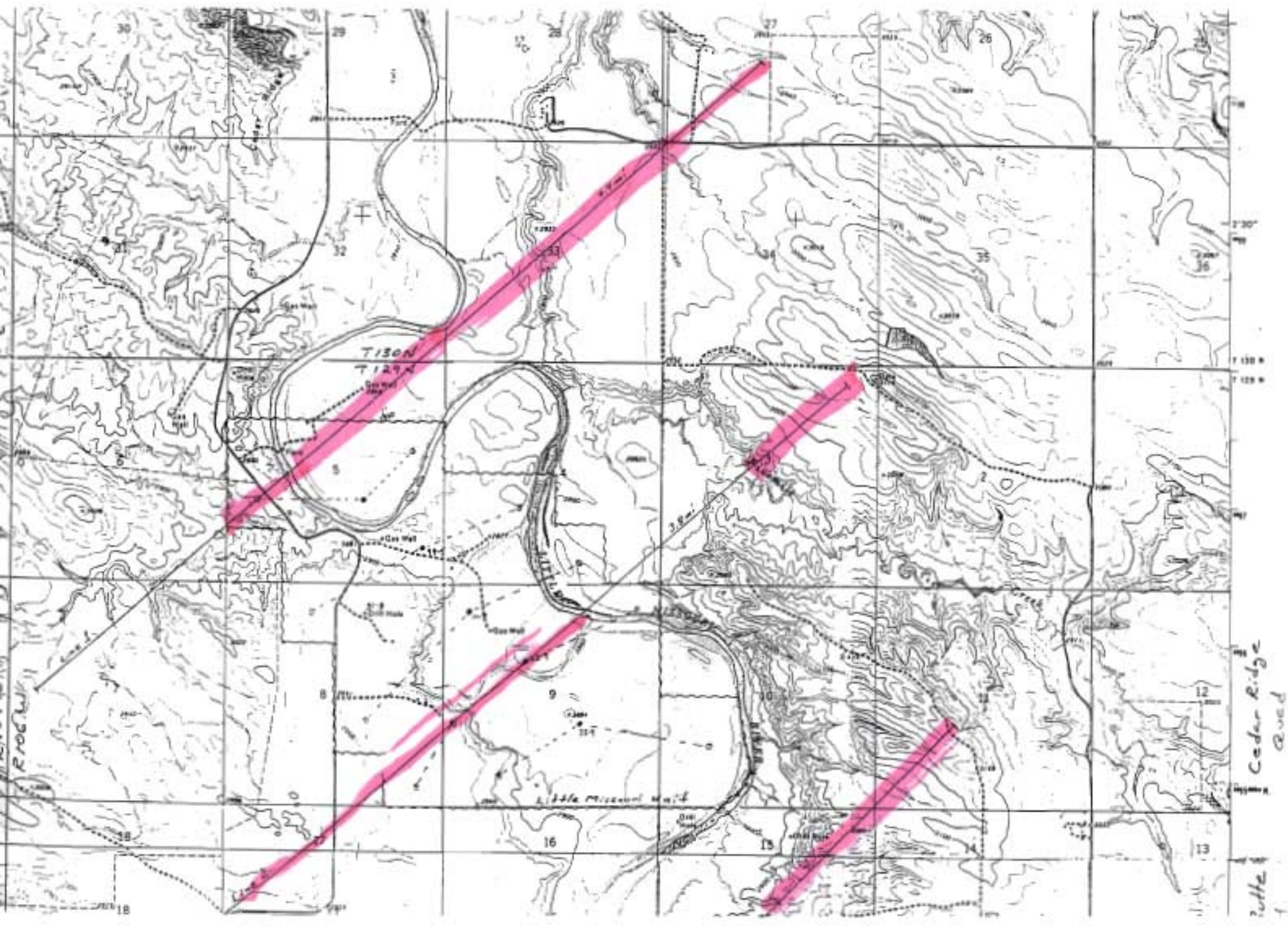
DATA PROCESSOR: **TO BE ANNOUNCED**

PREPARED BY: RICHARD L. LOCKHART

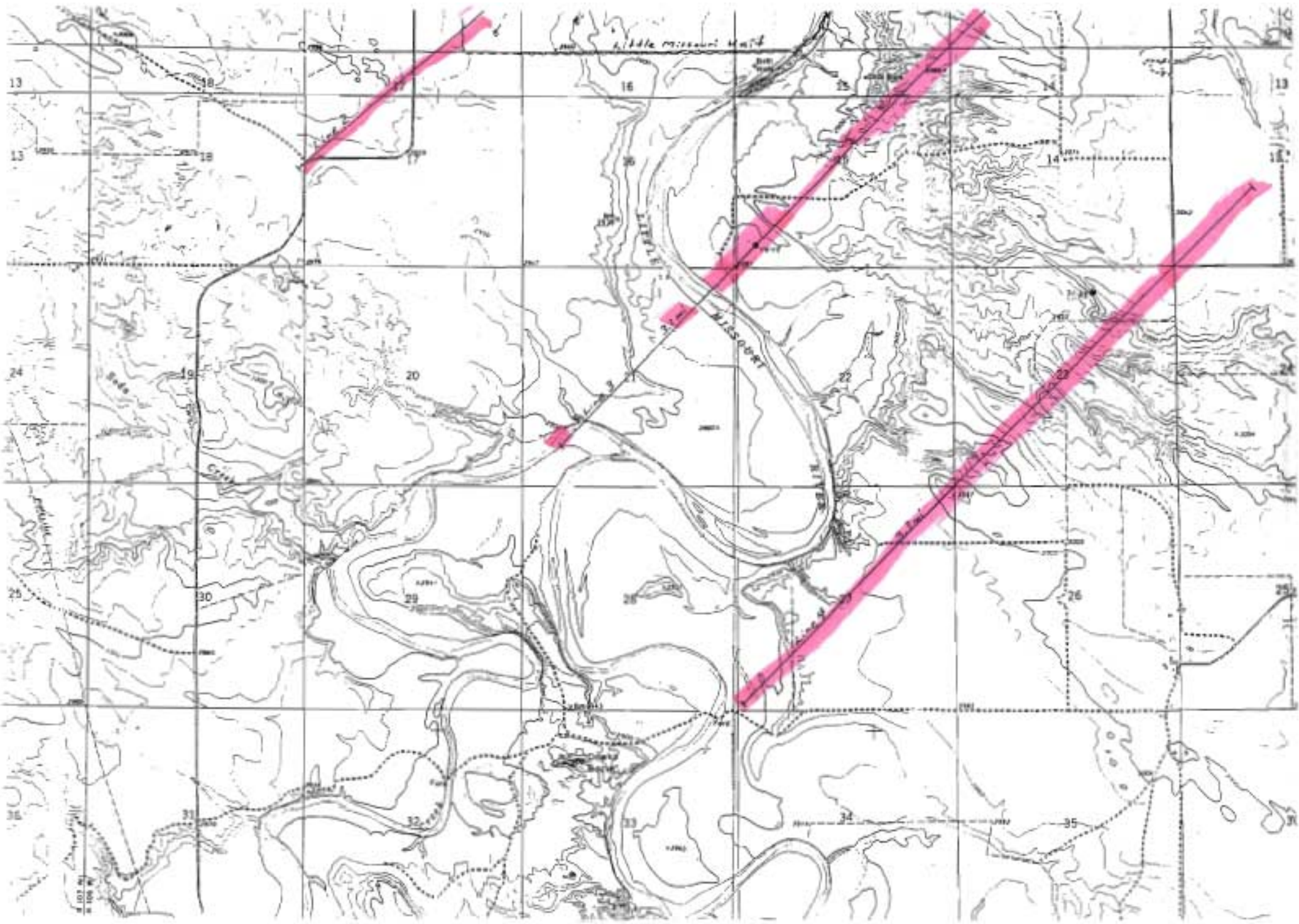
DATE: JULY 2, 1997

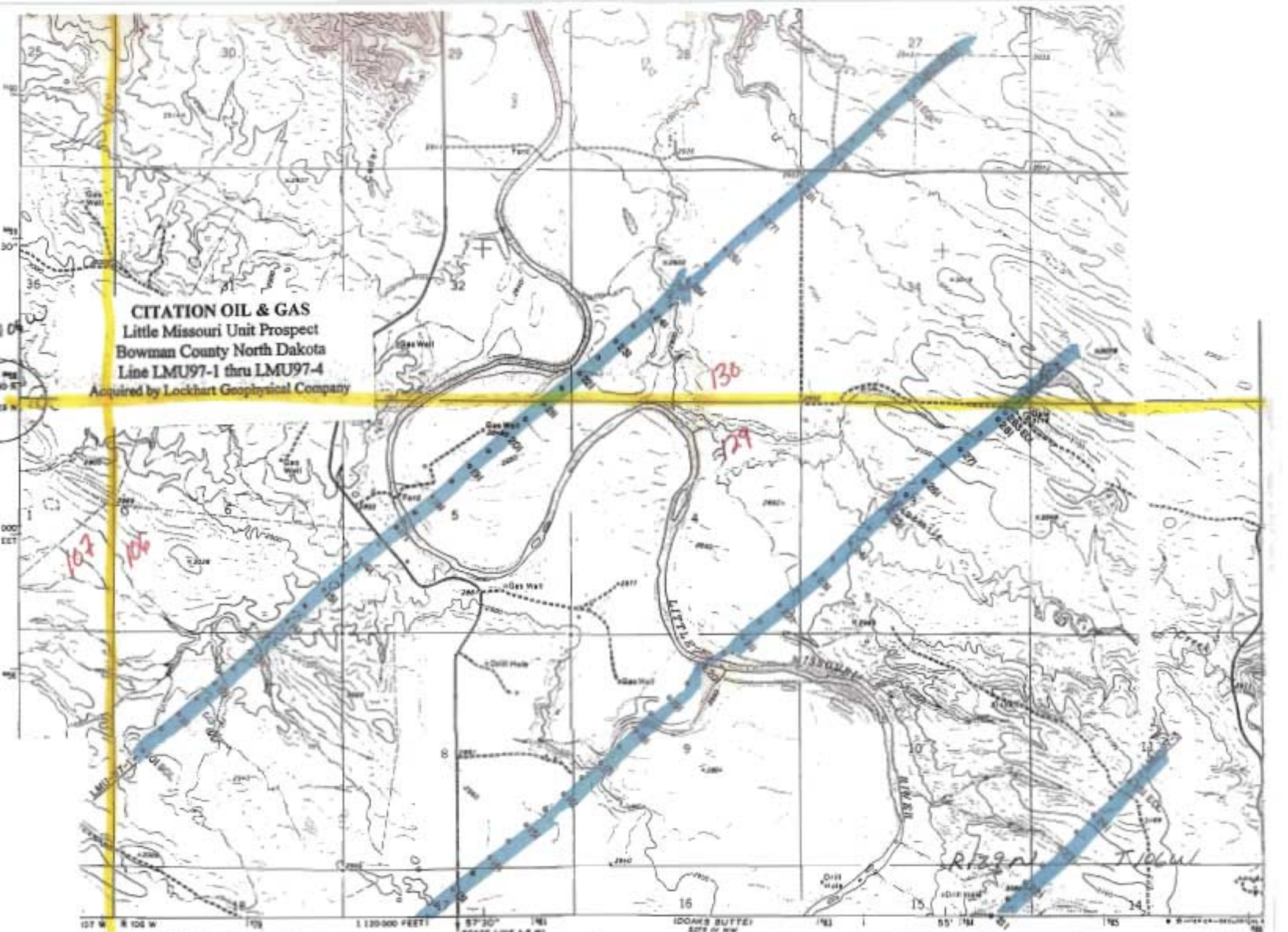
TOPOS: **DOAKS BUTTE, CEDAR RIDGE**

Client - Bird Dog - Party Mgr - Surveyor - Permitter - Observer -Vib Ops - Headlinesman



Butte Cedar Ridge Road





CITATION OIL & GAS
 Little Missouri Unit Prospect
 Bowman County North Dakota
 Line LMU97-1 thru LMU97-4
 Acquired by Lockhart Geophysical Company

107 W R 106 W 105 1130000 FEET 87 30' 141 ROAD CLASS 141 55' 141 145

Sited, and published by the Geological Survey
 SGS and NOS/NOAA
 by photogrammetric methods from aerial

SCALE 1:24 000

CITATION OIL & GAS
 Little Missouri Unit Prospect

ROAD CLASS

NORTH DAKOTA INDUSTRIAL COMMISSION

OIL AND GAS DIVISION

Wesley D. Norton
DIRECTOR

F.E. Wilborn
ASSISTANT DIRECTOR

November 5, 1997

Mr. Richard Lockhart
Lockhart Geophysical Co.
370 17th St., Ste. 3690
Denver, CO 80202

RE: Completion Information
Little Missouri Unit Project
ND Permit #97-0004
Bowman County, ND

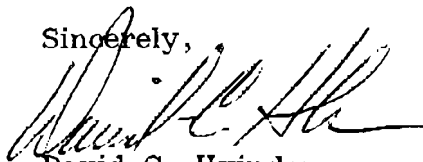
Dear Mr. Lockhart:

Please find enclosed a copy of our seismic completion report and affidavit.

Please review and complete section 1 and the affidavit, and also submit a map clearly indicating the actual lines of this program.

Should you have any questions, please contact our office.

Sincerely,



David C. Hvinden
Geophysical Regulations Supervisor

DCH/dh

Enclosure