30-015-25918

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN .PLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: NM 15302

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME: Bar 4 Federal

2. NAME OF OPERATOR: CNG Producing Co.-Tulsa Div.

9. WELL NO.: 2

3. ADDRESS OF OPERATOR: Box 2115, Tulsa, OK 74101-2115

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MAY 19 '88
O. C. D.
ARTESIA, OFFICE

10. FIELD AND POOL, OR WILDCAT: Rustler Bluff, Atoka

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements*)
At surface: 2310' FSL & 1650' FEL Sec. 4-25S-29E
At proposed prod. zone

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 4-25S-29E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 5 miles SE of Malaga

12. COUNTY OR PARISH: Eddy
13. STATE: NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1650' from lease; 990' from drlg unit

16. NO. OF ACRES IN LEASE: 640

17. NO. OF ACRES ASSIGNED TO THIS WELL: 320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 3008

19. PROPOSED DEPTH: 13900

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 2~~69~~4.7 GR (corrected: 2964.7)

22. APPROX. DATE WORK WILL START*: Upon approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See attached	Drilling Plan	(Exhibit "B")		

Exhibits Attached
"A" Plat (NMOCC Form C-102)
"B" Drilling Plan
"C" Blow Out Preventor Equipment
"D" Surface Use Plan
"E" Vicinity Sketch, Access Roads
~~"F" Production Facilities Layout~~ → not approved under this APD
"G" Wellsite Layout
"H" Existing Wells Within One Mile

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... 52 PM '88

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
SIGNED [signature] TITLE Engr. Tech. DATE 4/15/88

(This space for Federal or State office use)

PERMIT NO. ______ APPROVAL DATE ______

APPROVED BY ______ TITLE ______ DATE 5-18-88

CONDITIONS OF APPROVAL, IF ANY:

***See Instructions On Reverse Side**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

EW MEXICO OIL CONSERVATION COMMI ON

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator	Lease	Well No.
CNG PRODUCING CO.	CNG BAR 4 FEDERAL	2

Unit Letter	Section	Township	Range	County
J	4	25 SOUTH	29 EAST	EDDY

Actual Footage Location of Well:
2310 feet from the south line and 1650 feet from the east line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
2964.7	Atoka	UND. Rustler Bluff Atoka	320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

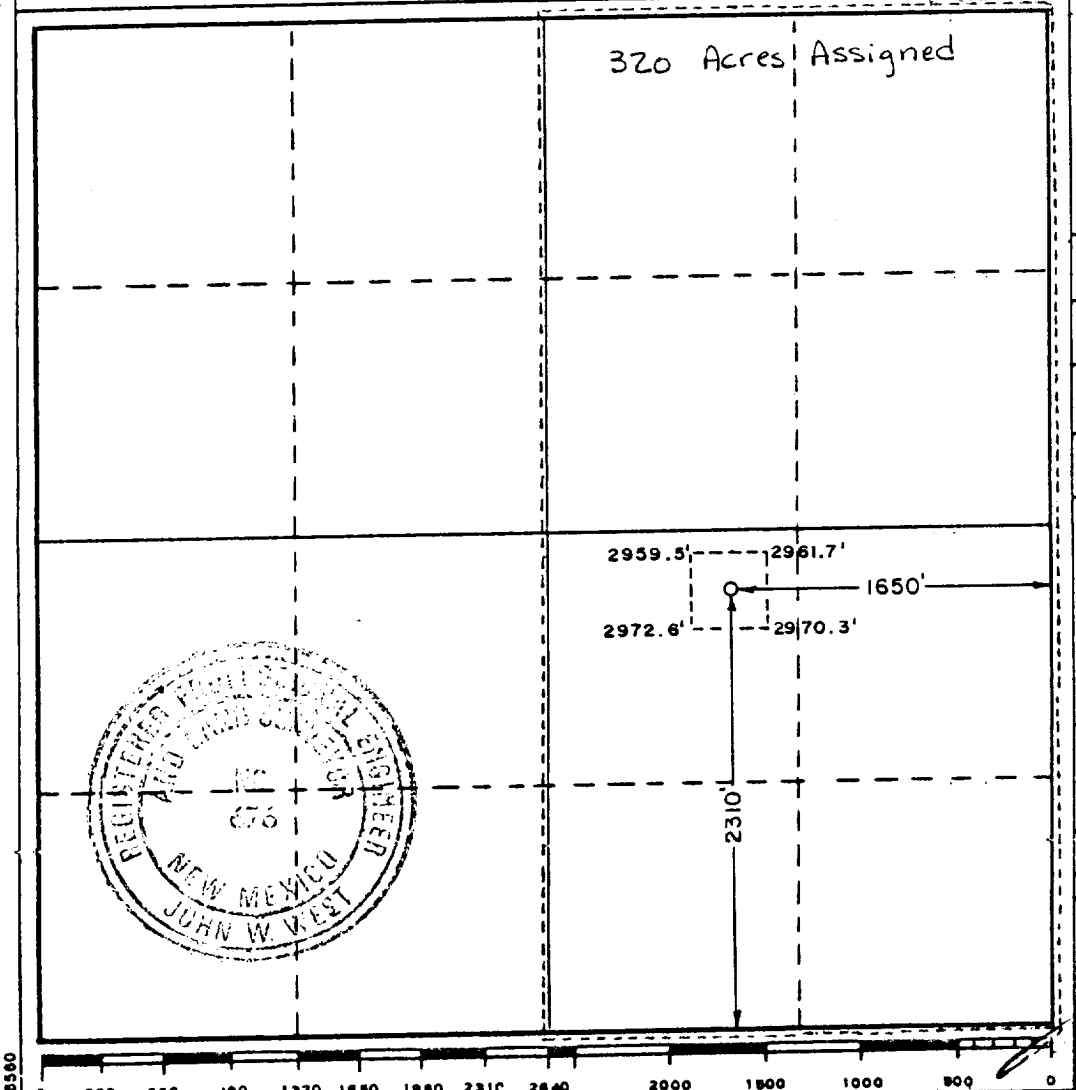
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Susan Lacy

Name: Susan Lacy

Position: Engineering Technician

Company: CNG Producing Co-Tulsa Div.

Date: April 6, 1988

I hereby certify that the well location shown on this plat was platted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: March 26, 1988

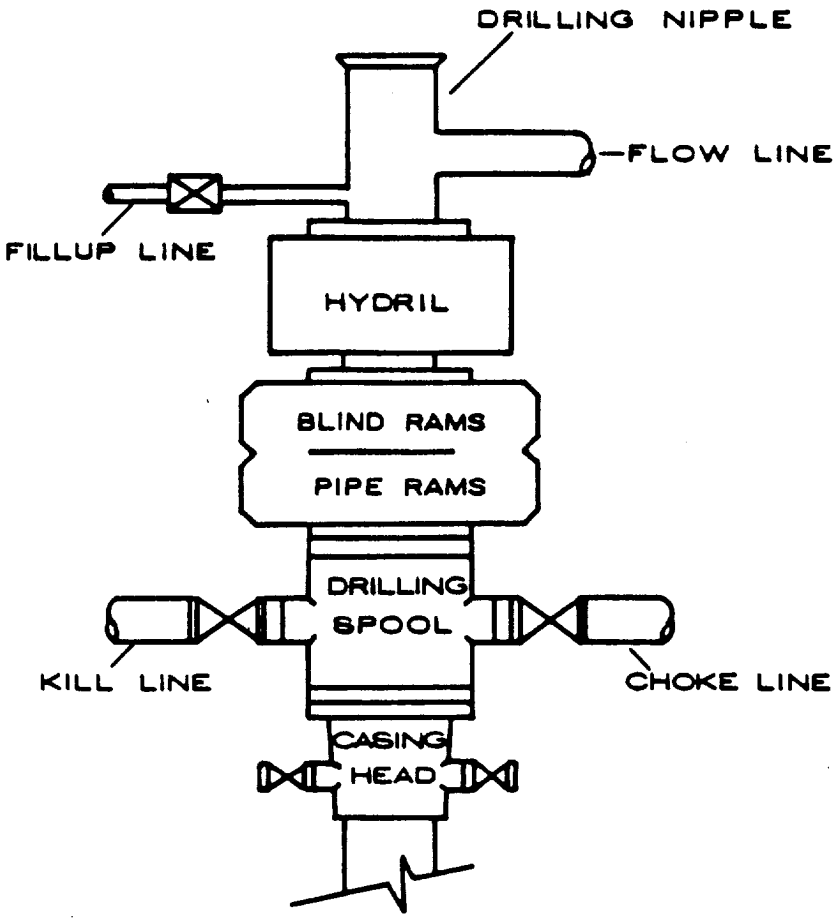
Registered Professional Engineer and/or Land Surveyor

Certificate No. JOHN W. WEST, 676
RONALD J. EIDSON, 3239

98560

EXHIBIT "C"

BOP STACK



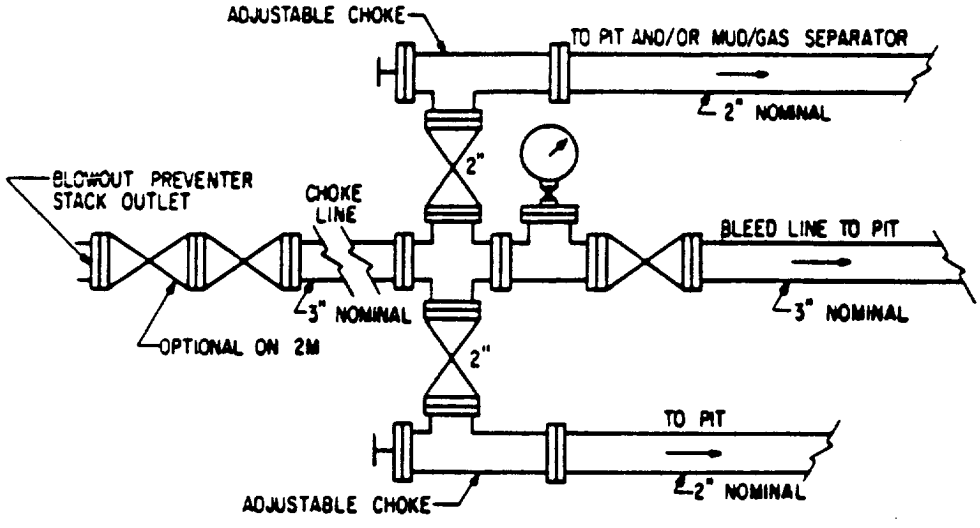


Exhibit "B"

ONSHORE OIL AND GAS ORDER NO. 1

Drilling Plan

CNG Producing Company
Bar 4 Federal No. 2
Sec. 4-25S-29E
2310' FSL & 1650' FEL
Eddy Co. New Mexico

1. Estimated Tops of Important Geologic Markers

Formation	Depth	SS
Delaware Mtn. Group	2950	+35
Wolfcamp	10150	-7165
Atoka "Bank" LS	12550	-9565
Lower Atoka LS	12650	-9665
Morrow "A" SS	13150	-10165
M.Morrow	13450	-10465
L. Morrow	13850	-10865
TD	13900	

2. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Formation	Depth	SS
Wolfcamp	11150	Gas
Strawn-Atoka	12350	Gas
Atoka Clastics	12450	Gas
Atoka Bank LS	12600	Gas
Morrow Clastics	13150	Gas

3. Operators Minimum Specifications for Pressure Control

(See Exhibit "C")

Exhibit "C" is a schematic diagram of the BOPE. BOP's and choke manifold will be installed and pressure tested before drilling out 13 3/8" casing cement plugs. BOP's and choke manifold will be tested to 5,000 psi and annular type preventers will be tested to 1,500 psi. Pipe rams will be operated daily and blind rams as possible.

4. Proposed Casing Program

Size of Casing	Weight & Grade	SJS Hole Size	Setting Depth	Quantity of Cement
30"	Conductor		0-66'	1250 SXS CIRCULATE
20"	94# H-40	26"	0-625'	1250 SXS CIRCULATE
13 3/8"	61# K-55	17 1/2"	0-3100'	3100 SXS CIRCULATE
10 3/4"	55.5# P-110	12 1/4"	0-8400'	900 SXS
10 3/4"	60.7# P-110		8400-10,400'	(total for 10 3/4" string)
7 5/8" (liner)	33.7# S-95	9 1/2"	10000-12555'	825 SXS
5 1/2" (liner)	17.0# S-95	6 1/2"	12450-14000'	200 SXS

5. Proposed Mud Program

Depth Interval (ft) From	To	Type Mud	Weight (ppg)	Viscosity (sec, API)	PH	Water Loss (cc/30M)
0	625	Spud Mud	8.4-9.0	32-38	10.0	N/C
625	3100	Brinewtr	10.0-10.2	28-30	10.0-10.5	N/C
3100	10400	Cut Brine	9.1-9.3	28-30	10.0-10.5	N/C
10400	12550	Cut Brine Water	10.0-14.0	30-36	10.0-10.5	10-15
12550	13900	xcPolymer	10.0-11.0	36-40	10.0	4-5

6. Auxiliary Equipment to Be Used

A) Kelly Cock
B) Full opening valve on floor with DP connection for use when Kelly is not in drill string.

7. Testing, Logging and Coring Program

Mud Logging: Unit on location from 2850' to TD.

Testing: Five DST's are anticipated. See No.2 "Estimated Depths of anticipated Water, Oil, Gas or Minerals" for DST intervals.

Coring: None.

Log/Interval: CNL-LDT,MLL,BHC Sonic, & DLL-MSFL or DI-SFL/2950' to TD; CNL/Surface to 2950'

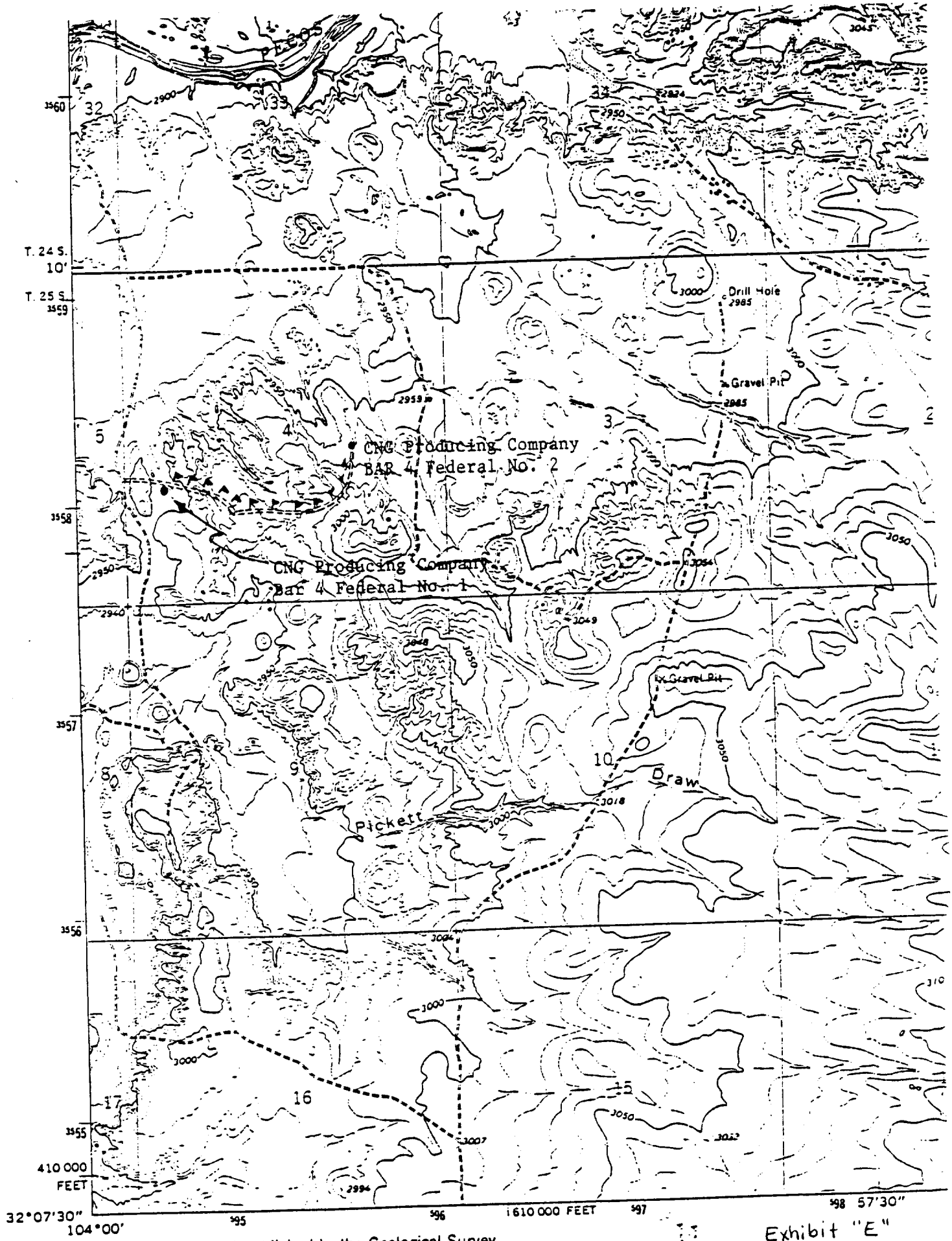
8. Any Abnormal Pressure or Temperatures

Anticipated possible abnormal pressures from Wolfcamp through the Atoka. The formations to be penetrated are not known to contain H_2S gas. Maximum anticipated BHP is 8,000 psi at total depth.

9. Anticipated Starting Date and Duration of Operations

Starting Date: July 1, 1988

Duration: 85 days



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1967. Field checked 1968

Polyconic projection. 1927 North American datum

Exhibit "E"
Vicinity Sketch,
Access Road

SLL

CNG Bar 4 Federal #2
Drilling Pad Layout

Exhibit "G"

3-25-88