

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRI-STATE
NM OIL CONS. COMMISSION
to the instruction on
Drawer 10 (reverse side)

Form approved.
Budget Bureau No. 42 R1425.

SF/John

30-005-61705

RECEIVED

JUL 15 1982

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
 OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR (Ph. 915-682-5241)
 GREAT WESTERN DRILLING COMPANY

3. ADDRESS OF OPERATOR
 P. O. Box 1659, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface 1980' FSL & 1980' FWL of Sec. 22-6S-25E
 At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 26 air miles north-northeast of Roswell, N. M.

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 660'
 (Also to nearest drlg. unit line, if any)

16. NO. OF ACRES ASSIGNED TO THIS WELL 1759.06

17. NO. OF ACRES ASSIGNED TO THIS WELL 160

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1/2 mile

19. PROPOSED DEPTH 4300' Abo

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3890' G.L.

22. APPROX. DATE WORK WILL START* July 16, 1982

5. LEASE DESIGNATION AND NUMBER NM-15862

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME O. C. D.

8. FARM OR LEASE NAME ARTESIA, OFFICE
 QUAIL FEDERAL

9. WELL NO. 6

10. FIELD AND POOL, OR WILDCAT Pecos Slope Abo

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 22-6S-25E

12. COUNTY OR PARISH Chaves

13. STATE N. M.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14 3/4"	10 3/4"	32.75#	915'	Sufficient to circulate
9 7/8 & 7 7/8"	4 1/2"	9.50#	4250'	*

* 9 7/8" hole will be reduced to 7 7/8" at 1850' +/- (200-300' below top of the Glorietta). Production casing will be cemented around the shoe with 250 sacks and staged at 1850' +/- with sufficient cement to circulate or tie back into the 10 3/4" casing. Abo pay zone will be perforated and stimulated as needed.

Attached are: 1. Well Location & Acreage Dedication Plat.
 2. Supplemental Drilling Data
 3. Surface Use Plan

Gas for this acreage is not dedicated.

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JUN 21 1982

OIL & GAS
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

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 *James H. Stewart* TITLE Agent DATE June 16, 1982

(This space for Federal or State office use)
 (Orig. Sgd.) GEORGE H. STEWART

PERMIT NO. JUL 9 1982 APPROVAL DATE

APPROVED BY JAMES A. GILHAM DISTRICT SUPERVISOR TITLE DATE

CONDITIONS OF APPROVAL

*lasted ID-1
API & NL Bank
7-23-82*

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

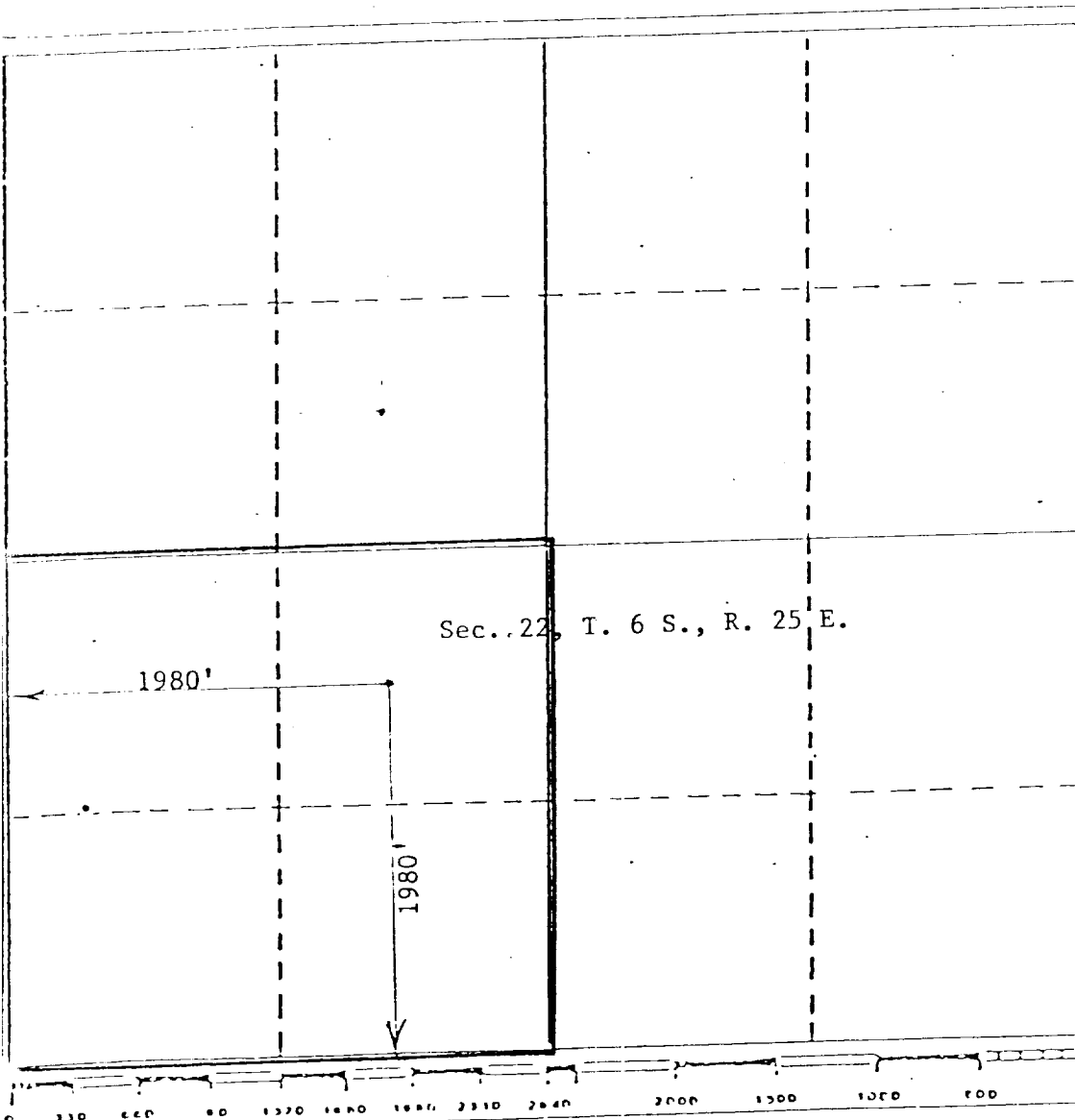
Operator Great Western Drilling Co.		Lease Quail Federal		Well No. #6	
Section Letter K	Section 22	Township 6 S.	Range 25E	County Chaves	
Actual Surface Location of Well: 1980 feet from the South		Line and 1980 feet from the West		Line Dedicated Acreage: 160 Acres	
Ground Level Elev. 3890	Producing Formation Abo		Pool Pecos Slope Abo		

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 Division _____



CERTIFICATION

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

James A. Knauf
Name

James A. Knauf

Position
Agent

Company
GREAT WESTERN DRILLING CO.

Date
June 11, 1982

I hereby certify that the well location shown on this plat was plotted 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.

John D. Jaquess
Date Surveyed
New Mexico
5-12-82
6290
Registered Professional Engineer
and Surveyor
John D. Jaquess, P.E. & L.S.
Certificate No. 6290

SUPPLEMENTAL DRILLING DATA

GREAT WESTERN DRILLING COMPANY
WELL #6 QUAIL FEDERAL
NE $\frac{1}{4}$ SW $\frac{1}{4}$ SEC. 22-6S-25E
CHAVEZ COUNTY, NEW MEXICO

1. SURFACE FORMATION: Artesia Group of Permian Age.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

San Andres	570'	Tubb	3010'
Glorietta	1590'	Abo	3645'

3. ANTICIPATED POROSITY ZONES:

Water	50-150', 570-655'
Oil	990-1205'
Gas	3685-4045'

4. CASING DESIGN:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>	<u>Condition</u>
10 3/4"	0 - 915'	32.75#	K-55	STC	New
4 1/2"	0 - 4250'	9.5 #	K-55	STC	New

5. SURFACE CONTROL EQUIPMENT: A double ram-type BOP will be used.

6. CIRCULATING MEDIUM: Fresh water mud conditioned as necessary for control of viscosity and water loss.

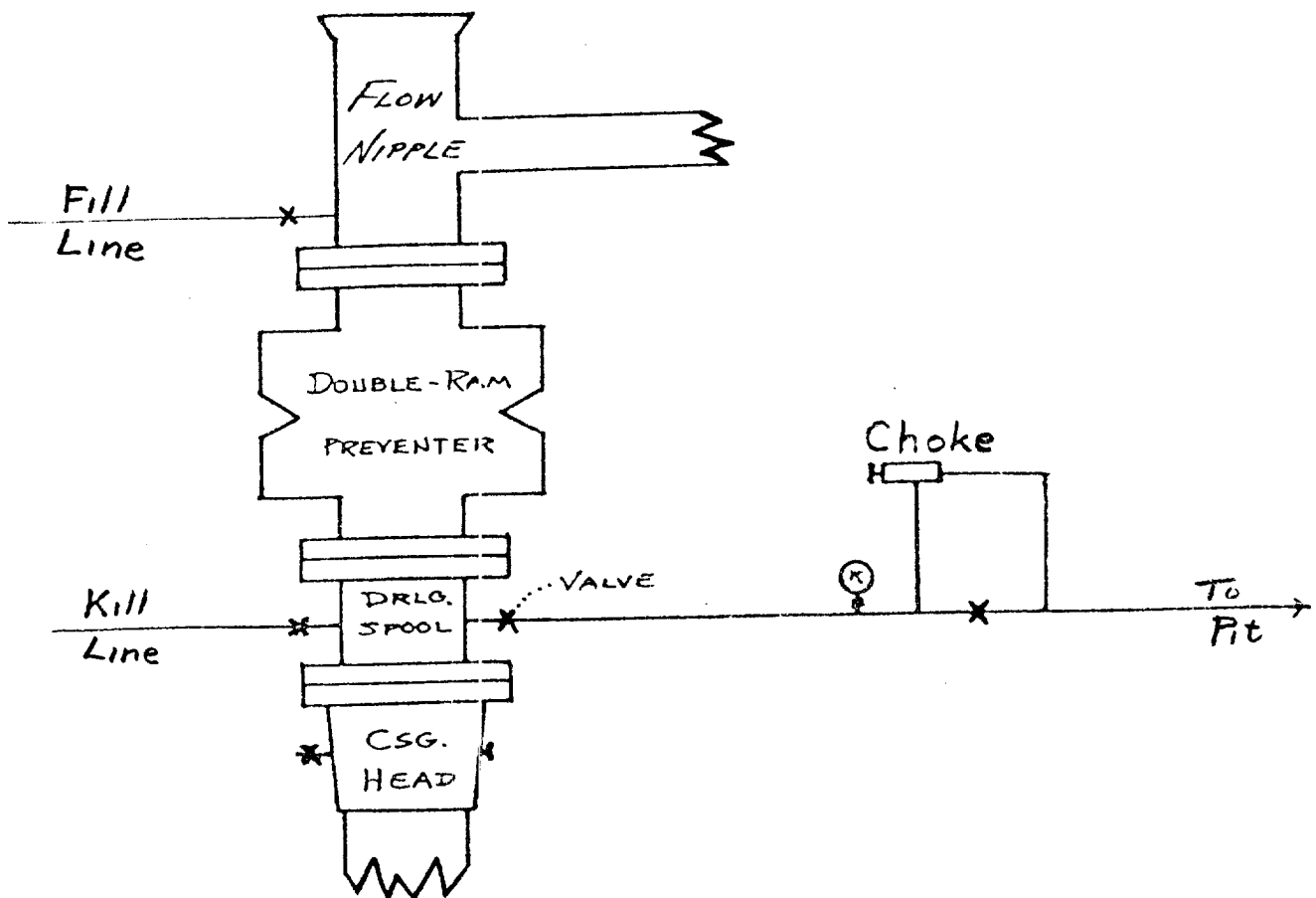
7. AUXILIARY EQUIPMENT: A full opening safety valve will be kept on rig floor in open position at all times.

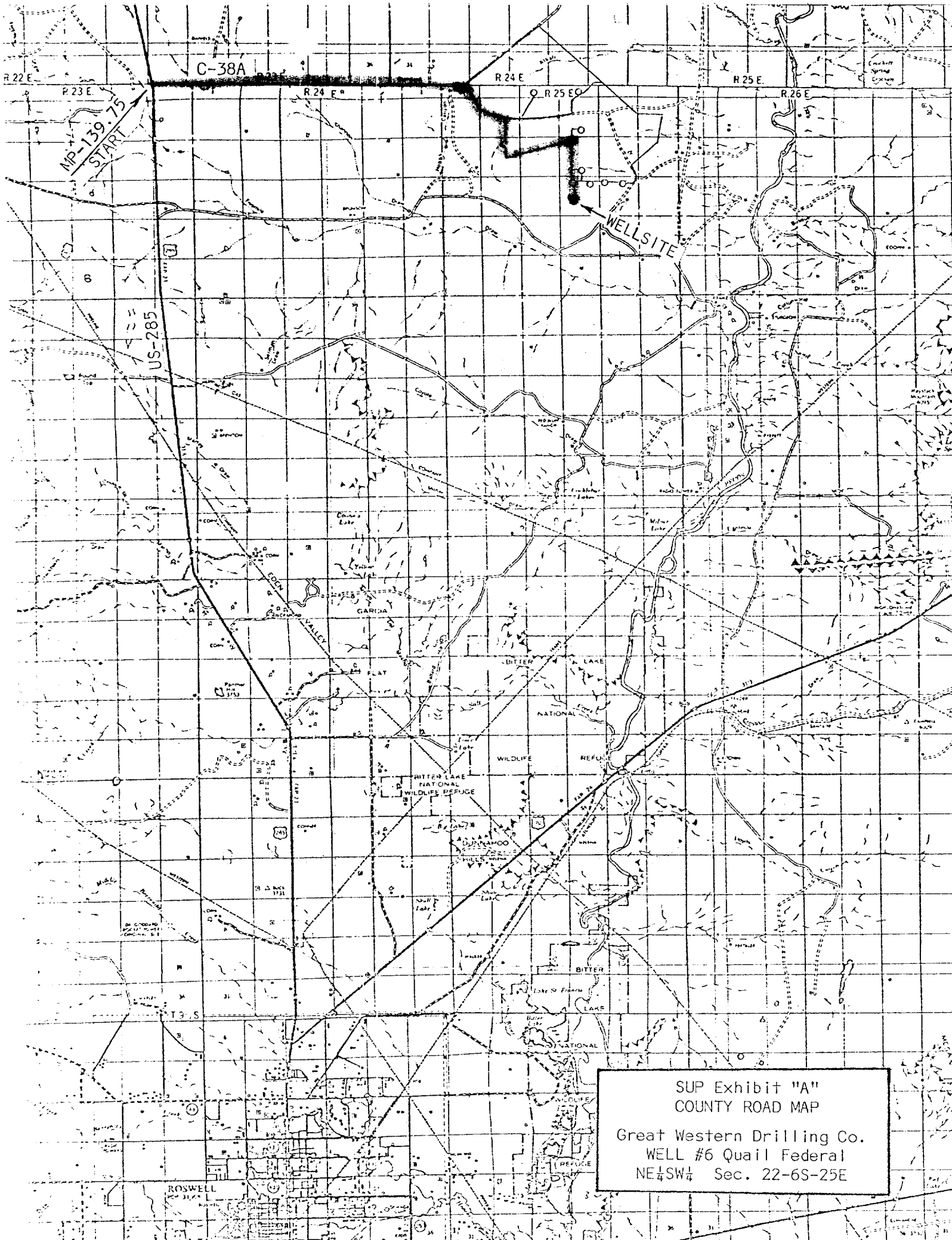
8. LOGGING PROGRAM: Compensated Neutron/Formation Density Log (0-TD).

9. ABNORMAL PRESSURES, TEMPERATURES OR GASES: None anticipated.

10. ANTICIPATED STARTING DATE: It is planned that operations will commence about July 16, 1982. Duration of drilling, testing, and completion operations should be 2 to 5 weeks.

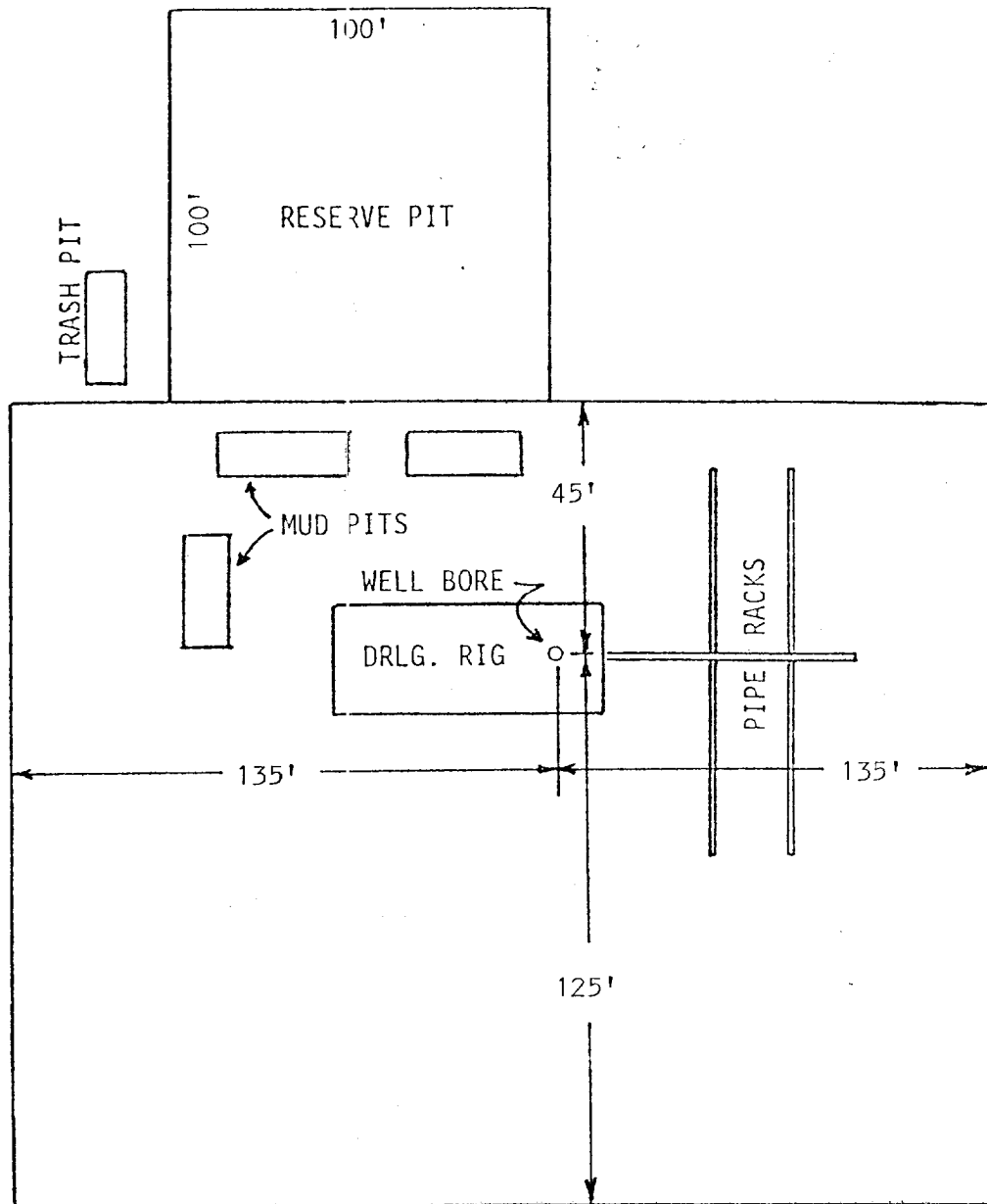
B O F & CHOKE MANIFOLD





SUP Exhibit "A"
COUNTY ROAD MAP

Great Western Drilling Co.
WELL #6 Quail Federal
NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 22-6S-25E



SUP Exhibit "D"
 SKETCH OF WELL PAD
 Great Western Drilling Co.
 WELL #6 Quail Federal
 NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 22-6S-25E