

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NM OIL CONS. COMMISSION
Drawer DD
Artesia, NM 88210

Form approved.
Budget Bureau No. 42 R1425.

30-CCS-61706

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
GREAT WESTERN DRILLING COMPANY ✓ (Ph. 915-822-5241)

3. ADDRESS OF OPERATOR
P. O. Box 1659, Midland, Texas 79702 JUL 16 1982

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface 660' FSL & 1980' FWL of Sec. 4-6S-25E O. C. D.

At proposed prod. zone same
ARTESIA, OFFICE

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

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

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
1 1/4 mile

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4013' G.L.

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#	895'	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 1825' +/- (200-300' below top of the Glorietta). Production casing will be cemented around the shoe with 250 sacks and staged at 1825' +/- 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.

RECEIVED
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 A. Knap TITLE Agent DATE June 16, 1982
(This space for Federal or State office use)
PERMIT NO. (Orig. Sgd.) GEORGE H. STEWART APPROVAL DATE JUL 2 1982
APPROVED BY JAMES A. OILHAM TITLE DISTRICT SUPERVISOR DATE 7-23-82
CONDITIONS OF APPROVAL IF ANY: None

Needs NSP

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

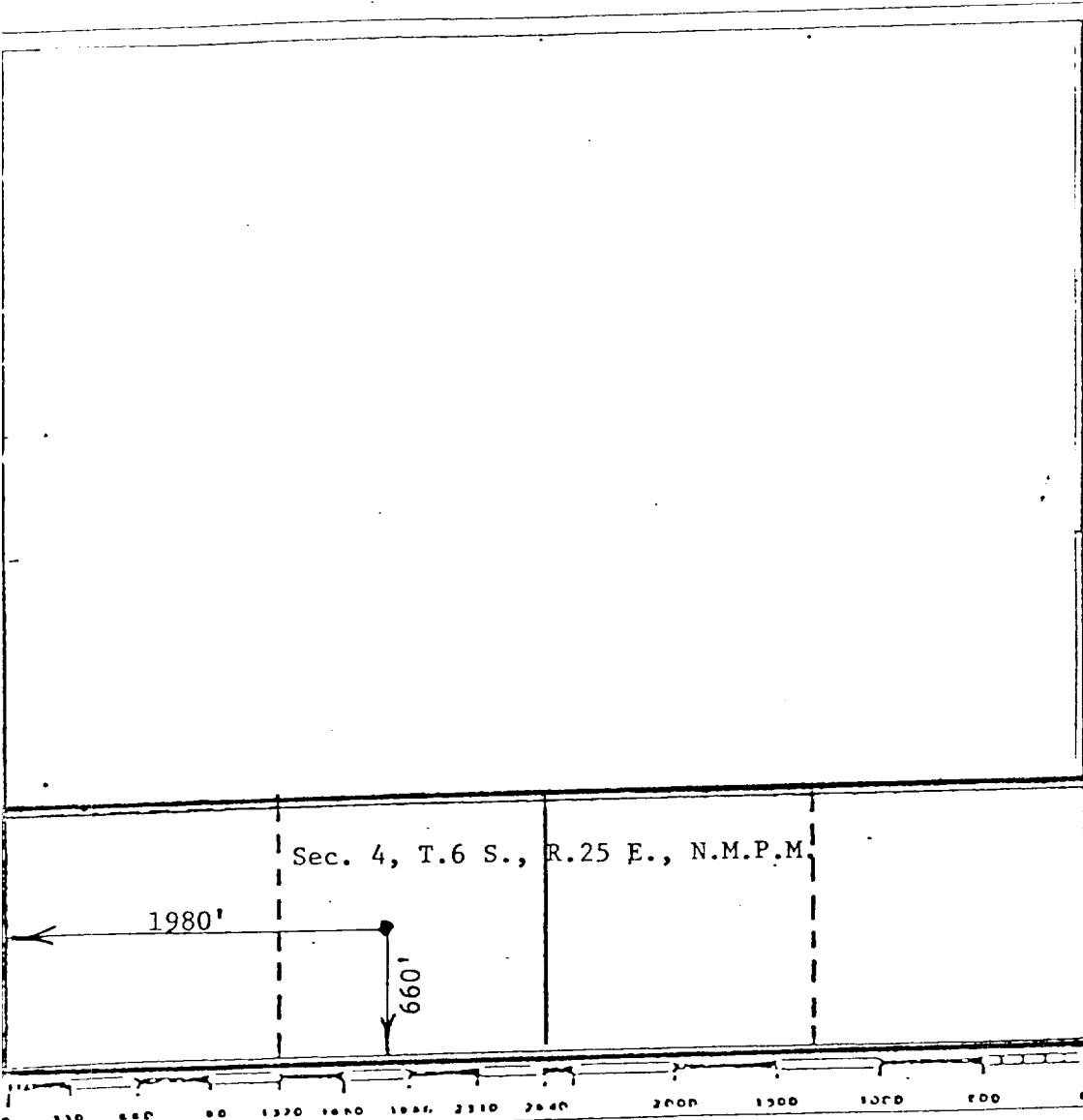
Operator Great Western Drilling Co.		Lease Quail Federal		Well No. #7	
Grid Letter N	Section 4	Township 6S.	Range 25E.	County Chaves	
Actual Postage Location of Well:					
660 feet from the South line and		1980 feet from the West line			
Ground Level Elev. 4013	Producing Formation Abo	Pool Pecos Slope Abo		Dedicated Acreage: 181.56 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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

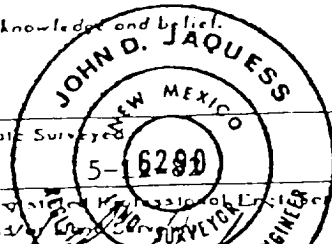
James A. Knauf

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.



Date Surveyed
5-6290
Professional Engineer
John D. Jaquess, P.E. & L.S.
Certificate No. 6290

SUPPLEMENTAL DRILLING DATA

GREAT WESTERN DRILLING COMPANY
WELL #7 QUAIL FEDERAL
SE $\frac{1}{4}$ SW $\frac{1}{4}$ SEC. 4-6S-25E
CHAVES COUNTY, NEW MEXICO

1. SURFACE FORMATION: Artesia Group of Permian Age.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

San Andres	545'	Tubb	2985'
Glorietta	1565'	Abo	3620'

3. ANTICIPATED POROSITY ZONES:

Water	50-150', 545-630'
Oil	965-1180'
Gas	3660-4020'

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 - 895'	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.

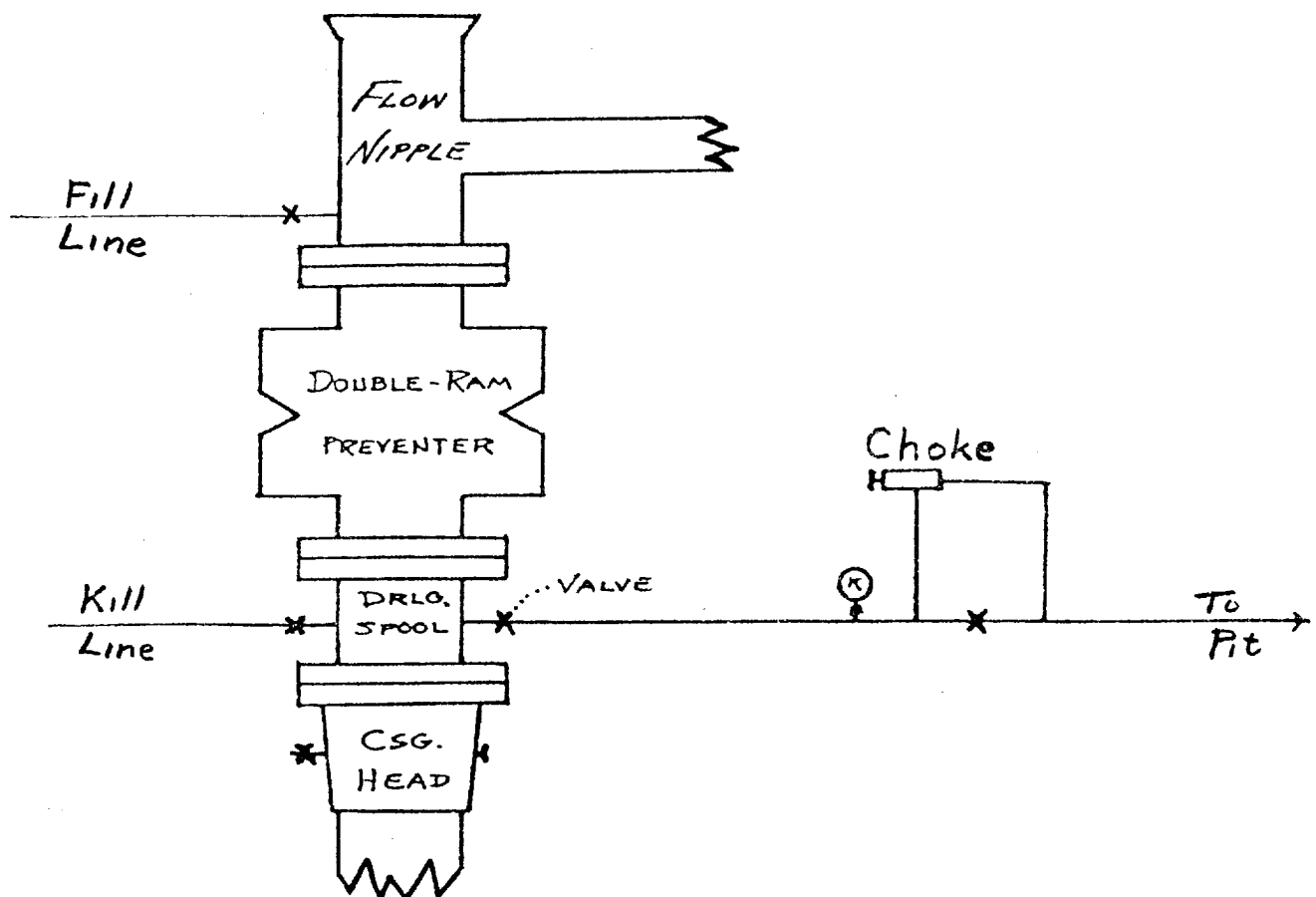
7. AUXILIARY EQUIPMENT: A full opening safety valve will be kept on rig floor in open position at all times.

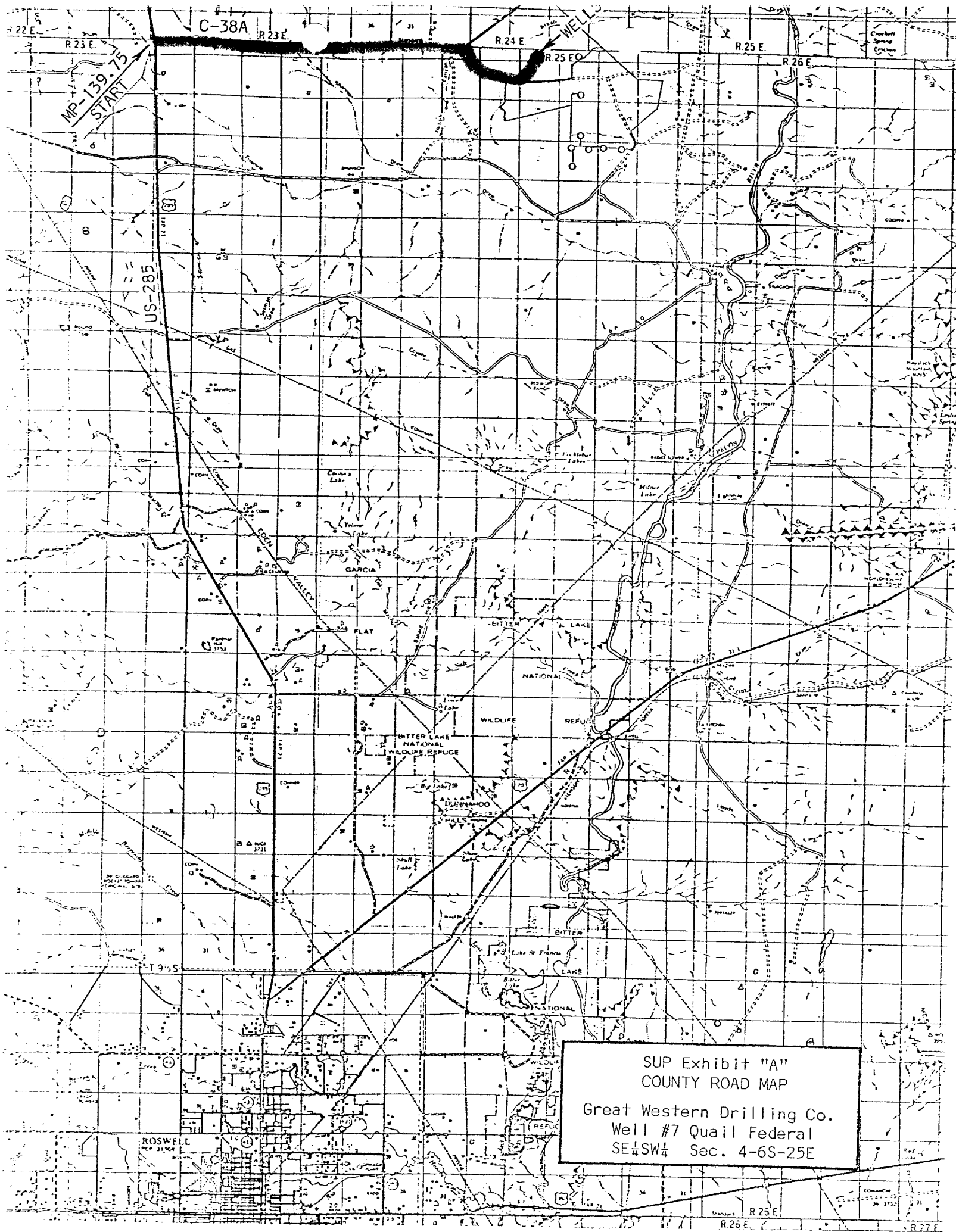
8. LOGGING PROGRAM: Compensated Neutron/Formation Density Log (O-TD).

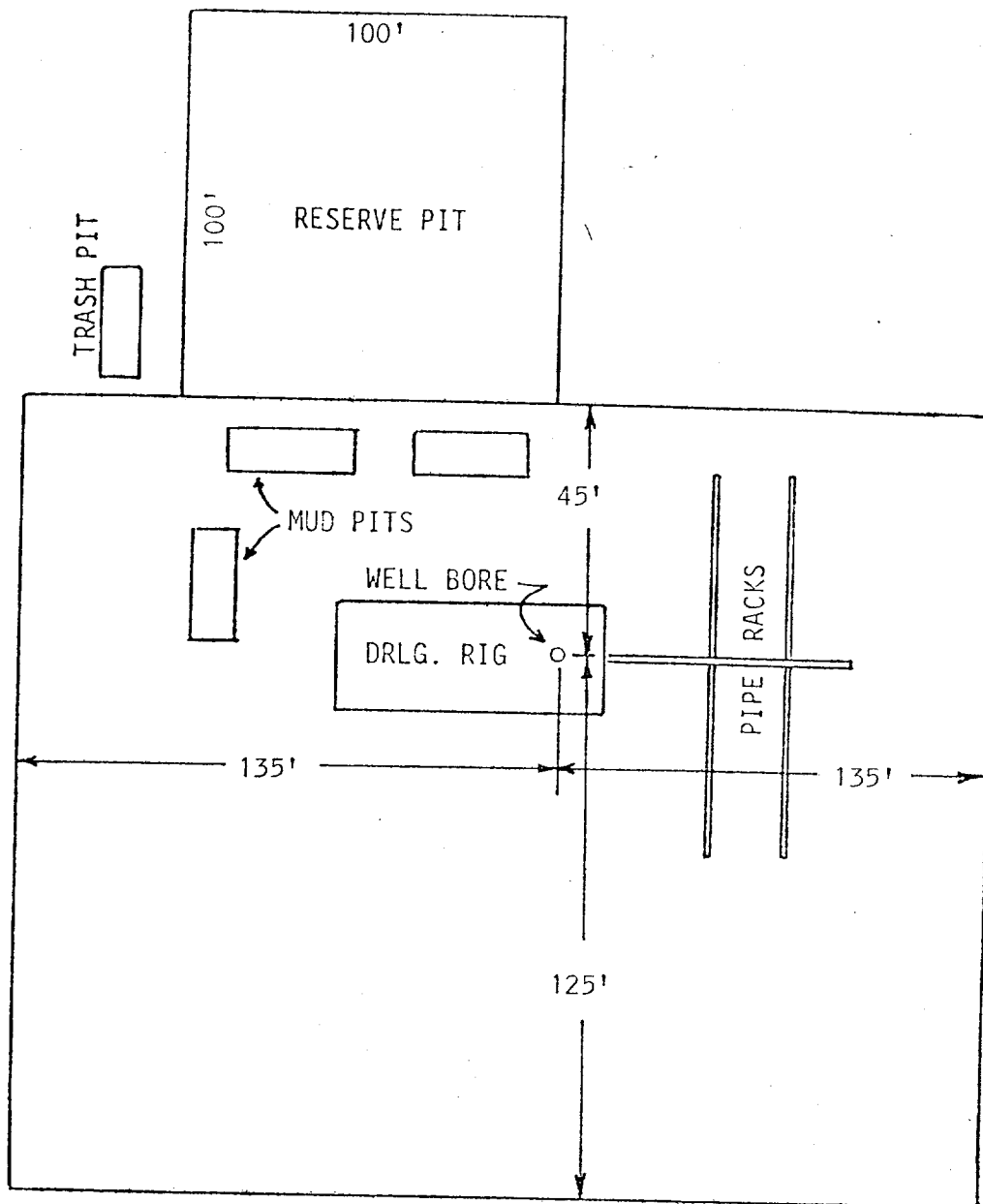
9. ABNORMAL PRESSURES, TEMPERATURES OR GASES: None anticipated.

10. ANTICIPATED STARTING DATE: It is planned that operations will commence about July 21, 1982. Duration of drilling, testing, and completion operations should be 2 to 5 weeks.

B O P & CHOKE MANIFOLD







SUP Exhibit "D"
SKETCH OF WELL PAD
Great Western Drilling Co.
Well #7 Quail Federal
SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 4-6S-25E