

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 ☒

RECEIVED

2. NAME OF OPERATOR

GREAT WESTERN DRILLING COMPANY

(Ph. 915-682-5241)

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

990' FSL & 1780' FEL of Sec. 15-6S-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.
(Also to nearest drig. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

1759.06

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. $\frac{1}{2}$ mile

19. PROPOSED DEPTH

4300' Abo

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3894' G.L.

22. APPROX. DATE WORK WILL START*

July 31, 1982

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#	920'	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.

Posted IP-1
Posted API 4/16/82
7-16-82

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. Knaut

TITLE

Agent

DATE

June 16, 1982

(This space for Federal State Official)

(Orig. Sgd.) GEORGE H. STEWART

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

JUL 9 1982
JAMES A. CILHAM
DISTRICT SUPERVISOR

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

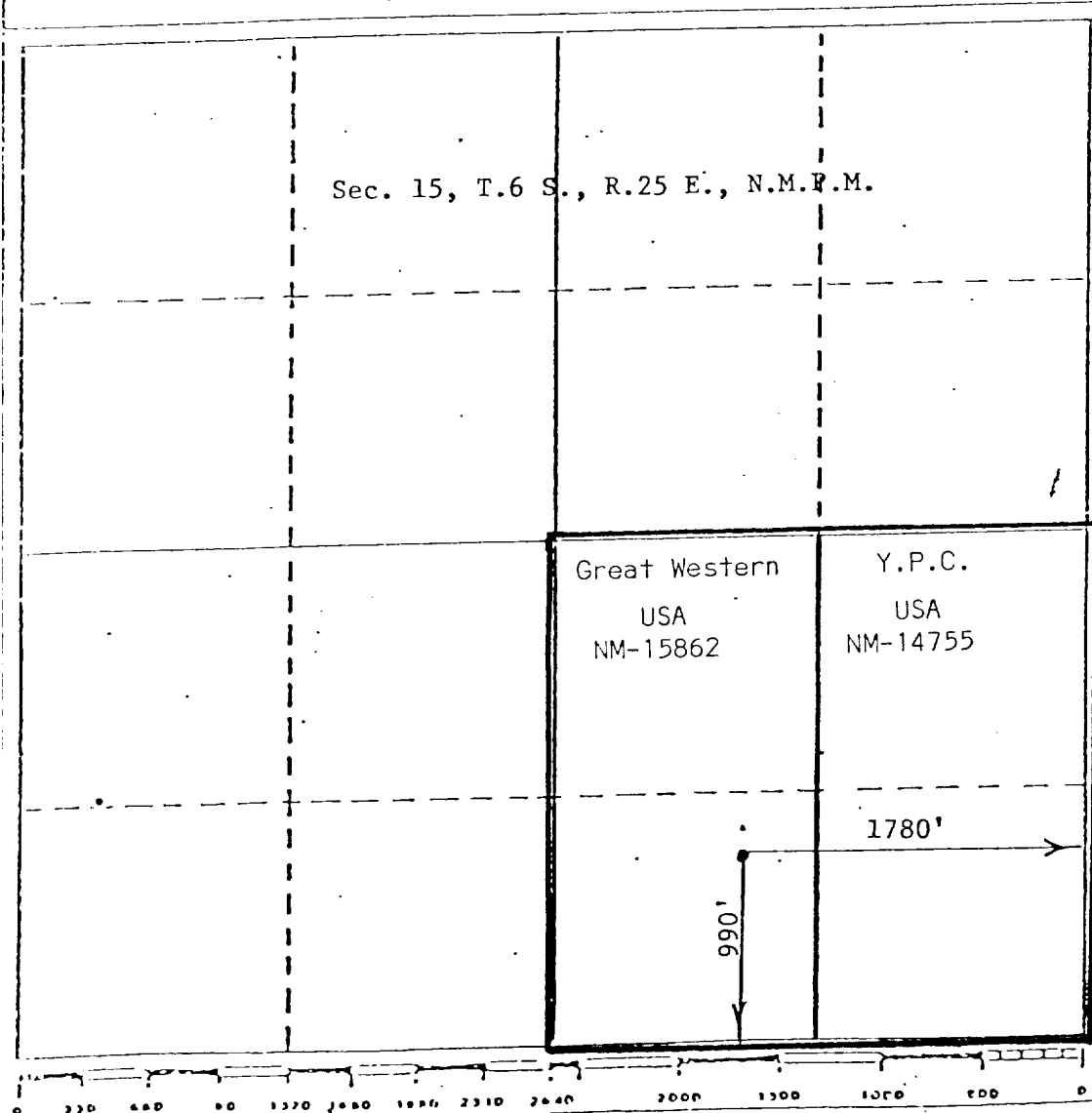
Operator Great Western Drilling Co			Lease Quail Federal Com		Well No. #11
Unit Letter 0	Section 15	Township 6 South	Range 25 East	County Chaves	
Actual Postage Location of Well:					
990 feet from the		South	line and	1780 feet from the	East line
Ground Level Elev. 3894	Producing Formation Abo		Pool Pecos Slope Abo	Dedicated Acreage: 160 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 Letter agreement (will be formally communitized upon completion of well).

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
JOHN D. JAQUESS
NEW MEXICO
May 12, 1982
6290
Registered Professional Engineer
in State of New Mexico
John D. Jaquess, P.E. & L.S.
Certificate No. 6290

SUPPLEMENTAL DRILLING DATA

GREAT WESTERN DRILLING COMPANY
WELL #11 QUAIL FEDERAL COM
SW $\frac{1}{4}$ SE $\frac{1}{4}$ SEC. 15-6S-25E
CHAVES COUNTY, NEW MEXICO

1. SURFACE FORMATION: Artesia Group of Permian Age.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

San Andres	575'	Tubb	3015'
Glorietta	1595'	Abo	3650'

3. ANTICIPATED POROSITY ZONES:

Water	50-150', 575-660'
Oil	995-1210'
Gas	3690-4050'

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 - 920'	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.

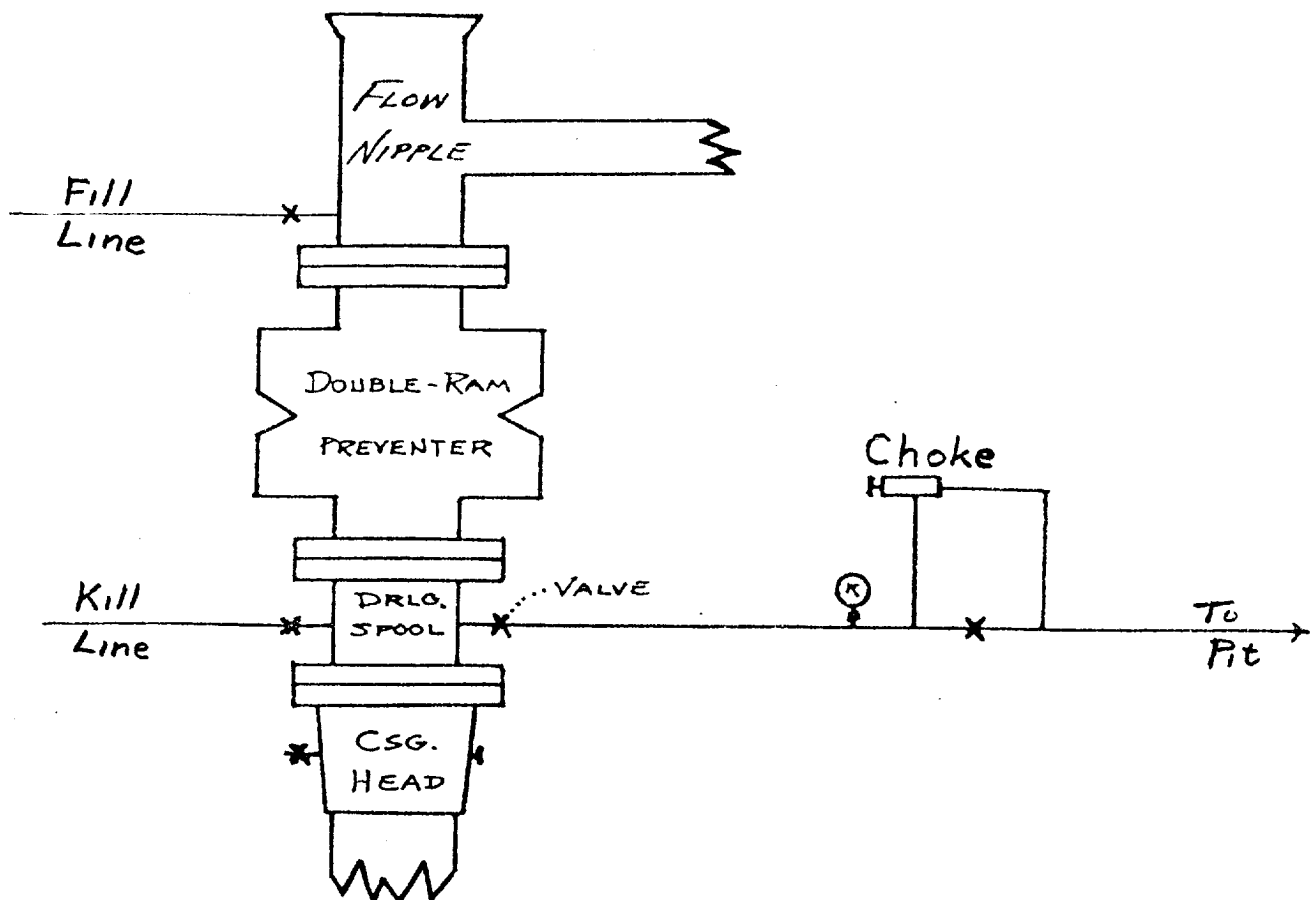
7. AUXILIARY EQUIPMENT: A full opening safety valve will be kept on rig floor in open position at all times.

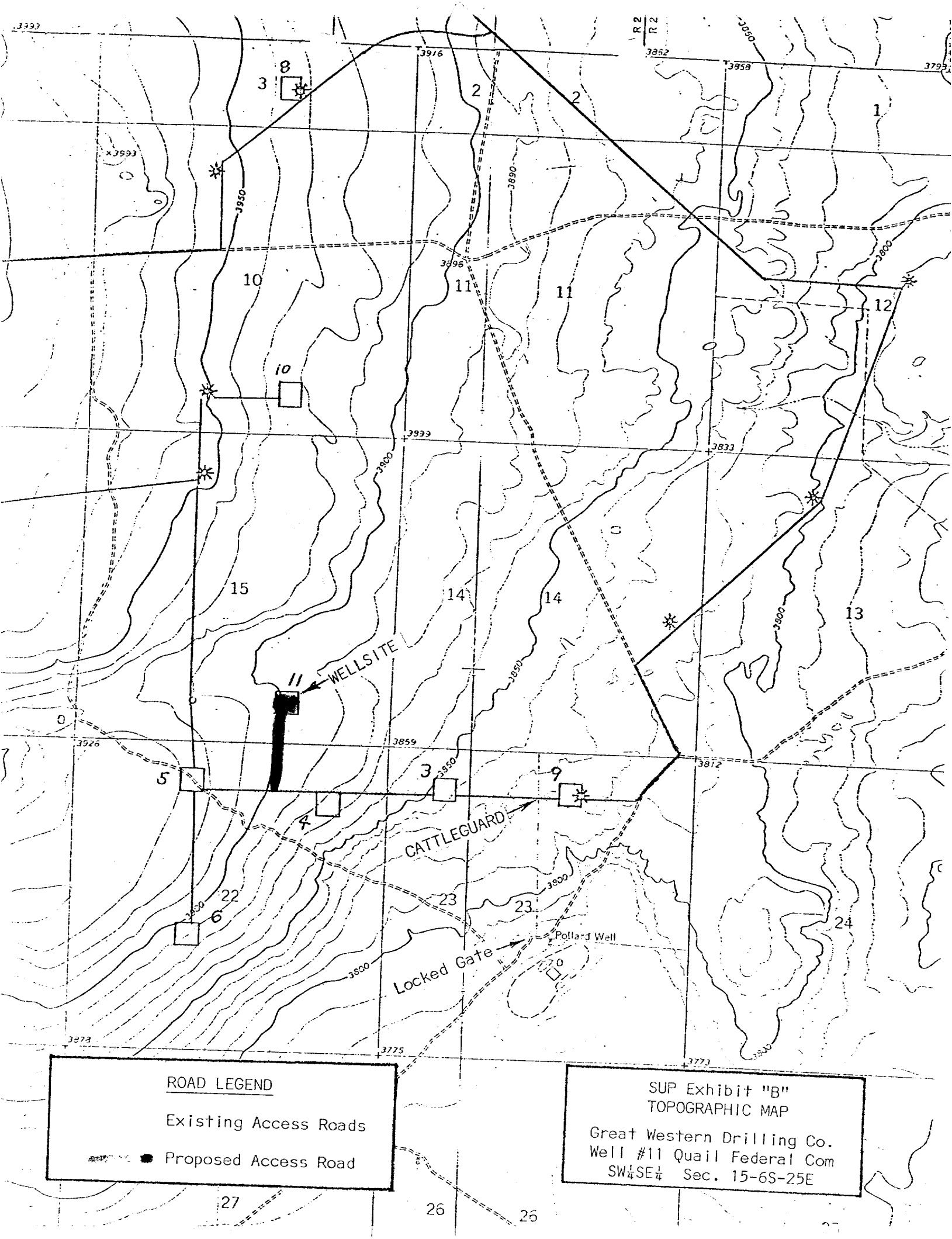
8. LOGGING PROGRAM: Compensated Neutron/Formation Density Log (O-TD).

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

10. ANTICIPATED STARTING DATE: It is planned that operations will commence about July 31, 1982. Duration of drilling, testing, and completion operations should be 2 to 5 weeks.

B O P & CHOKE MANIFOLD





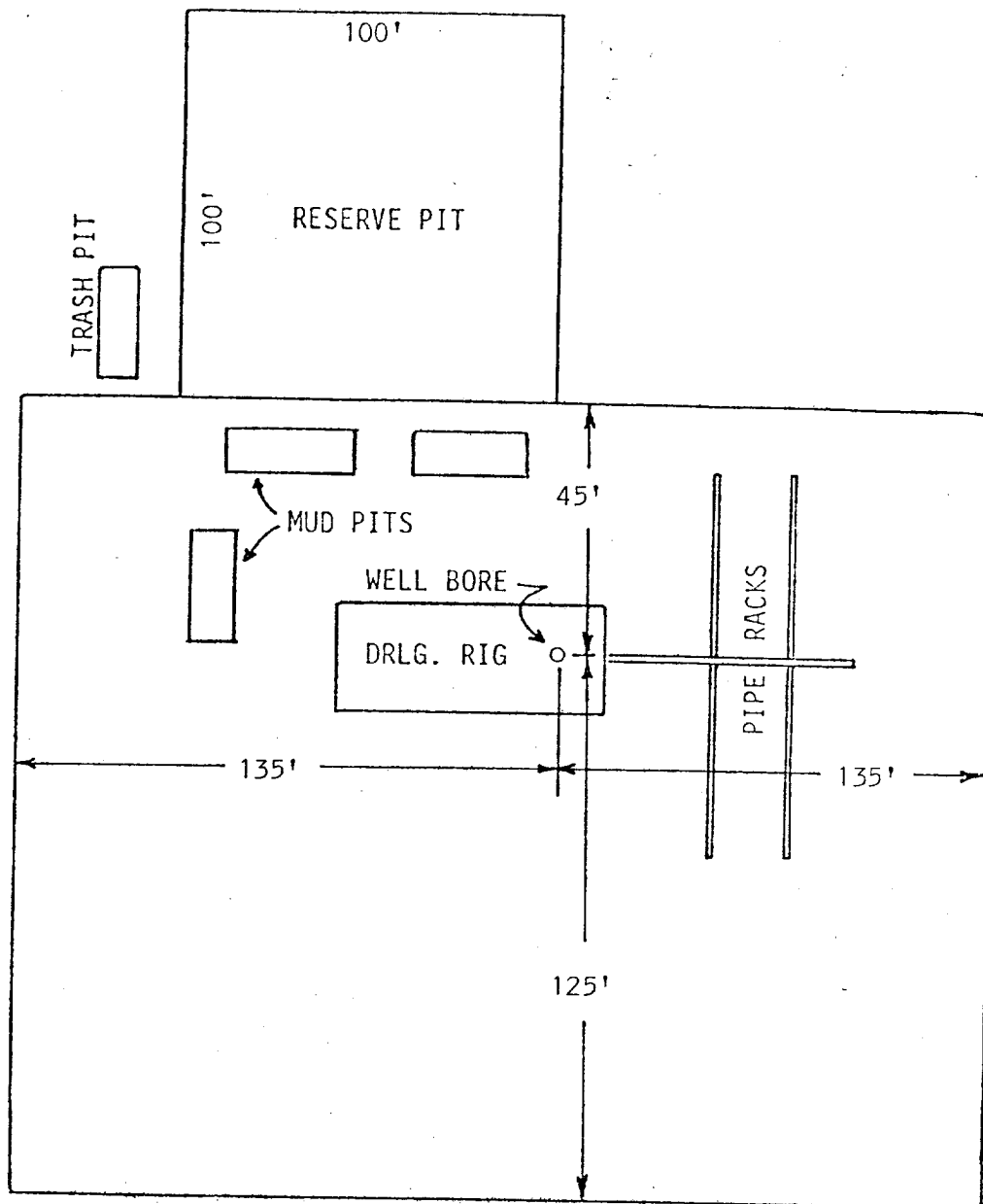
ROAD LEGEND

Existing Access Roads

Proposed Access Road

SUP Exhibit "B"
TOPOGRAPHIC MAP

Great Western Drilling Co.
Well #11 Quail Federal Com
SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 15-6S-25E



SUP Exhibit "D"
 SKETCH OF WELL PAD
 Great Western Drilling Co.
 Well #11 Quail Federal Com
 SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 15-6S-25E