

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NM OIL & GAS COMMISSION
Artesia, NM 88210

RECEIVED

30-605-6107
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
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 660' FSL & 2180' FEL of Sec. 3-6S-25E
At proposed prod. zone same

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'

16. NO. OF ACRES IN LEASE
1759.06

17. NO. OF ACRES ASSIGNED TO THIS WELL
44.14

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
200'

19. PROPOSED DEPTH
1500' San Andres

20. ROTARY OR CABLE TOOLS
Cable

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3940' G.L.

22. APPROX. DATE WORK WILL START
July 5, 1982

5. LEASE DESIGNATION AND SERIAL NO.
NM-15862

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
O. C. D.

7. UNIT AGREEMENT
ARTESIA, OFFICE

8. FARM OR LEASE NAME
QUAIL FEDERAL

9. WELL NO.
8

10. FIELD AND POOL, OR WILDCAT
Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 3-6S-25E

12. COUNTY OR PARISH
Chaves

13. STATE
N.M.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8"	24.0#	900'	Sufficient to circulate
8"	4 1/2"	9.5#	1500'	Sufficient to tie back

Pay zone will be selectively perforated and stimulated as needed.

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

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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 prevention program, if any.

24. SIGNED James A. 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 ALBERT C. HAM TITLE DISTRICT SUPERVISOR DATE

Partial ID - I Bank
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. #8
Unit Letter 0	Section 3	Township 6 South	Range 25 East	County Chaves	
Actual Postage Location of Well:					
660 feet from the		South	line and	2180 feet from the	East line
Ground Level Elev. 3940	Producing Formation San Andres		Pool Undesignated <i>Wildcat</i>	Dedicated Acreage: 44.14 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.

MOHAMED JAQUESS
May 13, 1982
Registered Professional Engineer
and/or Land Surveyor
62904
John D. Jaquess P.E. & L.S.
Certificate No. 62904
PROFESSIONAL

Sec. 3, T.6 S., R.25 E., N.M.P.M.

2180'

660'

220 440 660 880 1100 1320 1540 1760 1980 2200 2420 2640 2860 3080 3300 3520 3740 3960 4180 4400 4620 4840 5060 5280 5500 5720 5940 6160 6380 6600 6820 7040 7260 7480 7700 7920 8140 8360 8580 8800 9020 9240 9460 9680 9900

SUPPLEMENTAL DRILLING DATA

GREAT WESTERN DRILLING COMPANY
WELL #8 QUAIL FEDERAL
SW $\frac{1}{4}$ SE $\frac{1}{4}$ SEC. 3-6S-25E
CHAVES COUNTY, NEW MEXICO

1. SURFACE FORMATION: Artesia Group of Permian Age.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

San Andres	555'
Glorietta	1575'

3. ANTICIPATED POROSITY ZONES:

Fresh Water:	50-150', 555-640'
Oil:	975-1190'

4. CASING DESIGN:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>	<u>Condition</u>
8 5/8"	0 - 900'	32.75#	K-55	STC	New
4 1/2"	0 - 1500'	9.5 #	K-55	STC	New

5. SURFACE CONTROL EQUIPMENT: A pressure control valve and oil saver.

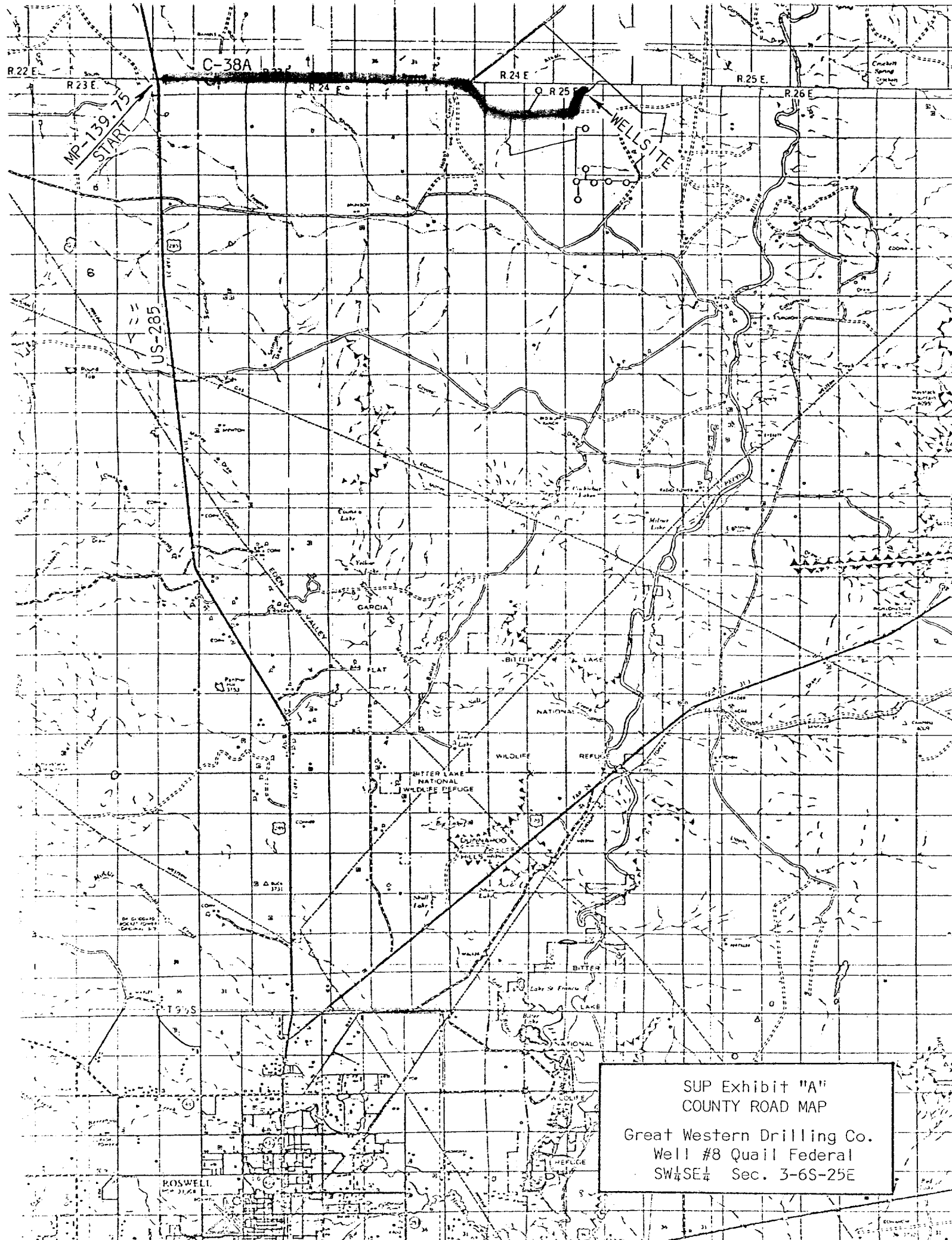
6. CIRCULATING MEDIUM: Not applicable for cable tool hole.

7. AUXILLARY EQUIPMENT: None considered necessary.

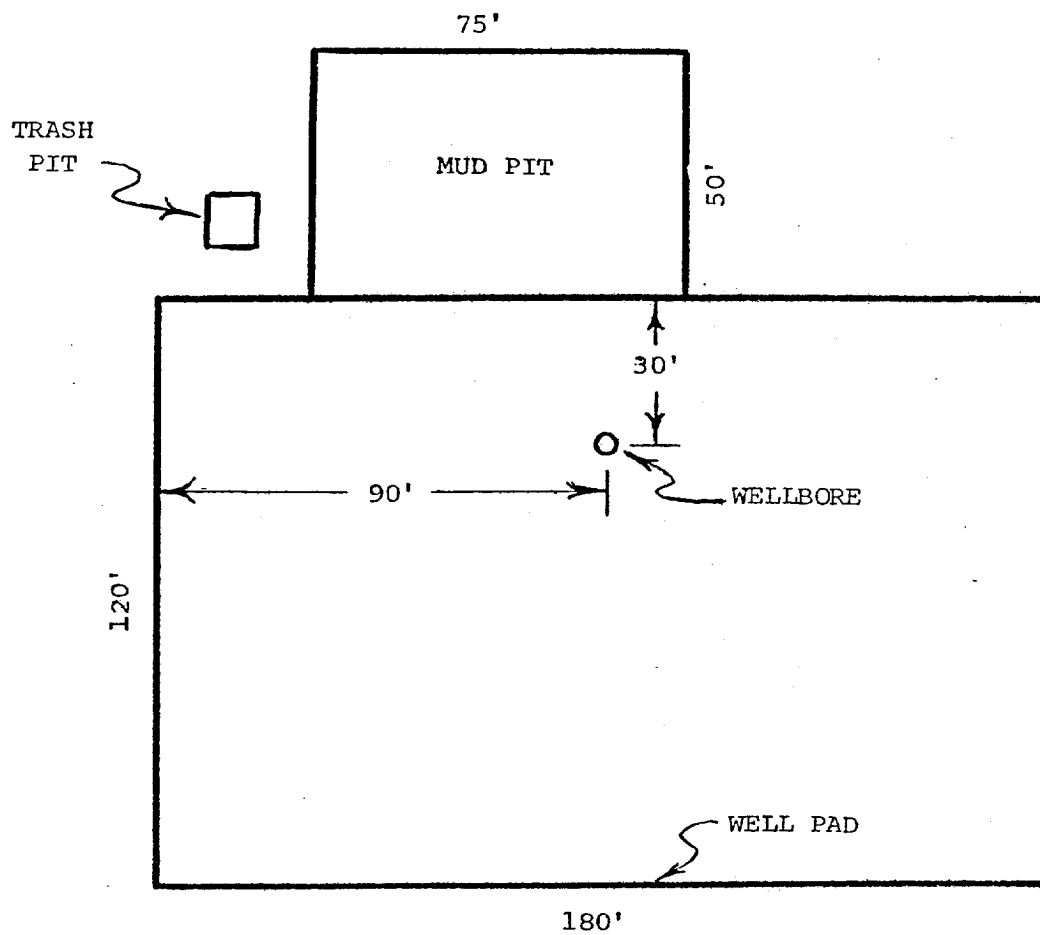
8. LOGGING PROGRAM: A Gamma Ray Log will be run to TD.

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

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



SUP Exhibit "A"
COUNTY ROAD MAP
Great Western Drilling Co.
Well #8 Quail Federal
SW 1/4 SE 1/4 Sec. 3-6S-25E



SUP Exhibit "D"
SKETCH OF WELL PAD
Great Western Drilling Co.
Well #8 Quail Federal
SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 3-6S-25E