

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NM 0554603

5. LEASE DESIGNATION AND SERIAL NO.

LC-069049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Elliott Federal

9. WELL NO.

#82

10. FIELD AND POOL, OR WILDCAT

Wantz

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Sec. 9, T21S-R38E

12. COUNTY OR PARISH

Lea

13. STATE

N.M.

1. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

2. TYPE OF WELL

OH
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

3. NAME OF OPERATOR

QUANAH PETROLEUM, INC.

4. ADDRESS OF OPERATOR

4835 LBJ Freeway, Suite 525 - Dallas, Texas 75234

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1980' FWL and 2310' FNL

At proposed prod. zone

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

8 miles Northeast of Eunice, New Mexico

7. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1980' FWL

8. NO. OF ACRES IN LEASE

604.25

9. NO. OF ACRES ASSIGNED
TO THIS WELL

40

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

-0-

11. PROPOSED DEPTH

7,900'

12. ROTARY OR CABLE TOOLS

Rotary

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

3569.8 GL

14. APPROX. DATE WORK WILL START*

December 15, 1980

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14-3/4	11-3/4		400'	200
11	8-5/8		1650'	850
7-7/8	4-1/2		7900'	450

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OCT 16 1980
U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

Please see the following attachments:

1. Surveyors Plat.
2. Multi-purpose surface use and Operations Plan and Maps.
3. 10 Point Drilling Program
4. B.O.P. Schematic
5. Archaeological Survey.
6. Surface Agreement by Landowner and Operator.

See Revision

15. ADDITIONAL 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.

16. NAME *Walter P. Olson*

TITLE V.P. Operations

DATE October 8, 1980

This space for Federal or State office use

17. TITLE

APPROVAL DATE

18. APPROVED BY

TITLE

DATE NOV 04 1980

19. CONDITIONS OF APPROVAL, IF ANY:

WELL LOCATION AND ACREAGE DEDICATION AT

Supersedes G-120
Effective 1-1-65

All distances must be from the outer boundaries of the Section

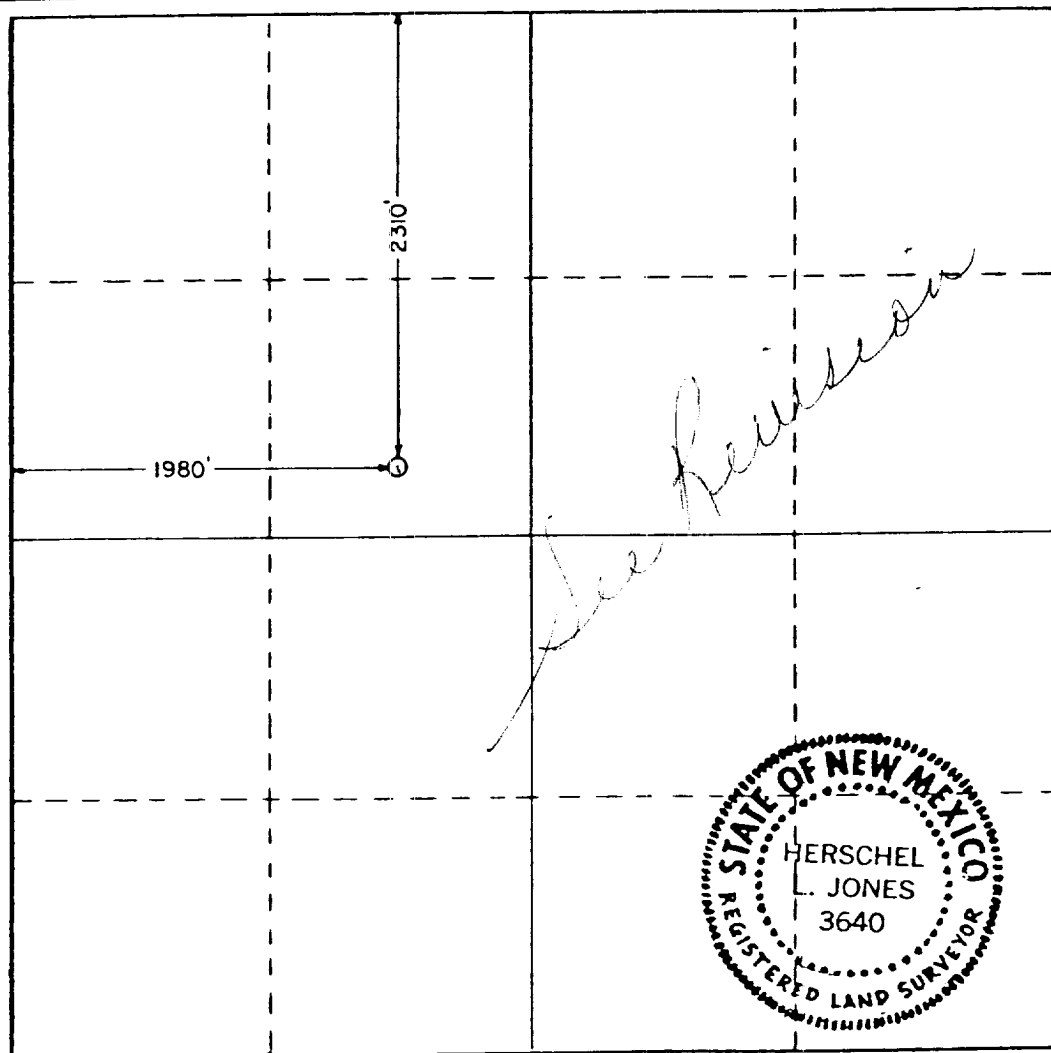
Operator QUANAH PETROLEUM CORPORATION			Lease Elliott Federal "A"		Well No. 2
Tract Letter F	Section 9	Township 21 South	Range 38 East	County Lea	
Actual Footage Location of Well: 2310 feet from the North line and 1980 feet from the West line					
Ground Level Elev. 3569.8	Producing Formation FESCO		Pool		Dedicated Acreage: 40 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.

Name
W. P. Oliver
Position
Vice President-Operations
Company
Quanah Petroleum, Inc.
Date
10-21-80

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
September 29, 1980
Registered Professional Engineer
and/or Land Surveyor

Certificate No.

3640

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900 0

QUANAH PETROLEUM, INC.
 DRILLING OPERATIONS PLAN
 ELLIOTT FEDERAL #3
 SECTION 9, T21S, R38E
 1980' FWL 2310' FNL
 ELEVATION: 3569.8 G. L.

1. Geologic Name of Surface: Tertiary

Salt	1630	Glorieta	5590
Salt (base)	2900	Tubb	6670
San Andres	4315	Abo	7310

2. Estimated Tops of Important Geologic Markers.

Salt	1630	Glorieta	5590
Salt (base)	2900	Tubb	6670
San Andres	4315	Abo	7310

3. Estimated Tops of Anticipated Water, Oil, Gas or other Mineral Bearing Formations.

San Andres	4315 (oil)
Abo	7310 (oil)

4a. The Proposed Casing Program.

<u>Hole Size</u>	<u>Casing O.D.</u>	<u>Grade</u>	<u>Weight</u>	<u>Setting Depth</u>	<u>New or Used</u>
14-3/4"	11-3/4"	As available		400'	N
11"	8-5/8"	K-55	24#	1650'	N
7-7/8"	4-1/2"	K-55	10.5#	1600'	N
7-7/8"	4-1/2"	K-55	11.6#	3000'	N
7-7/8"	4-1/2"	K-55	10.5#	7000'	N
7-7/8"	4-1/2"	K-55	11.6#	7900'	N

4b. Cementing Program, Including Types, Amounts and Additives.
 The 11-3/4" casing will be cemented to surface with 200 sacks of Class "C" cement with 2% CaCl₂ - W.O.C. time, 8 hours.

The 8 5/8" casing will be cemented to surface with approximately 650 sacks of Class "C" cement with 4% gel, 1/4 lb/bbl. floccle and 2% Ca Cl₂, tailed by 200 "C" with 2% Ca Cl₂ - W.O.C. time, 12 hours.

The 4 1/2" production casing will be cemented with 450 sacks 50/50 Pox-Mix "H" with 10% salt.

5. B.O.P. Specifications and Testing (See attached Schematic for size and pressure rating.)

One annular BOP (Hydril) and dual ram type BOP with pipe rams and blind rams. All equipment to have a 3,000# or better working pressure. The accumulator to close and open all components of the BOP stack without operating pump. Blind and pipe rams will be tested to 3000 psi and the annular preventer to 1500 psi before drilling out.

6. Mud Program.

Run a low solids, non-dispersed mud utilizing lime to flocculate gel.

As long as possible, mix sweeps 4-6 hours before pumping.

Utilize a desander to control weight and minimize water used and cut mud costs.

Do not add oil, diesel, Soltex or Bentonite extenders to mud.

Do not mix mud additives for water loss control.

Most of all, exercise prudent judgment on materials added, i.e., if you don't need it, don't add it.

For lost circulation: DO NOT pre-treat with LCM for circulation loss. In the event we do lose circulation, utilize the information available to you to decide your plan of action.

Mud weights will not exceed 9.8 ppg and will be less if water conditions will permit.

Materials planned for use in mud system are gel, caustic soda, lime and soda ash. Dick's mud seal and cottonseed hulls shall be used to control any possible lost circulation.

7a. Type of Drilling Tools and Auxiliary Equipment.

A drilling rate recorder, calibrated to record drilling time for each one foot interval will be used.

A kelly cock will be used, a TIW safety valve and inside BOP will be available on the rig floor. A float valve will be used at the bit.

The mud system will be monitored by use of manually placed floats and markers.

7b. Deviation Control.

Deviation will be monitored by wireline surveys, every 500' on surface hole and on bit trips thereafter. A maximum dogleg severity of $1\frac{1}{2}^{\circ}$ per hundred feet will be maintained with a maximum of 7° at total depth.

8. Sample, Logging, Testing and Coring Program.

Drill cutting samples will be taken every 10 feet from 3500' to total depth.

A guard fororo and a density neutron log will be run from the base of the surface casing to total depth.

Drill stem tests and cores will be at the discretion of the wellsite geologist. Possible DST's may be run in the San Andres and Abo formations.

9. Anticipated Abnormal Pressure and Other Problems.

Normal pressure gradients are expected and no hydrogen sulfide or other potential hazards are expected.

10. Anticipated Starting Date and Duration.

The anticipated starting date, pending approval, will be December 15, 1980, due to rig availability and lease commitments. The duration will be approximately three weeks.

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NOV 18 1980

CHS CONSERVATION DIV.

4/26/82



COUNTY LEA FIELD Wantz
 OPER QUANAH PETROLEUM, INC.
 NO 2 LEASE Elliott "A" Federal
Sec 9, T21S, R38E
1650 FNL, 2310 FWL of Sec
7 mi NE/Eunice

STATE NM
 API 30-025-27150
 MAP
 COORD
4-3-36 NM
 SPD 11-5-81 CMP 3-17-82

SC
 8 5/8-1595-750 sx
 4 1/2-7750-1260 sx

WELL CLASS: INIT D FIN DO LSE CODE			
FORMATION	DATUM	FORMATION	DATUM
ID 7750 (WFMP)		PHD 7548	

IP (Abo) Perfs 7331-7543 P 374 BOPD + 42 BW. Pot based on
 24 hr test. GOR 17' sty (NR)

OS Cactus #18

3570 GL

sub-s

10-5-81 F.R. 11-24-80
 PD 7900 RT (Abo)
 AMEND LOCATION: Formerly reported as 2310 FNL,
 1980 FWL of Sec
 11-9-81 TD 1616; SI
 Hole caving in
 11-30-81 Drlg 5555
 12-7-81 Drlg 7365 "Tight"
 12-14-81 Drlg 7750
 12-21-81 TD 7750; "Tight"
 4-12-82 TD 7750; PBD 7548; Complete
 Perf (abo) 7331-7543 (overall)
 Treatment (NA)
 4-17-82 COMPLETION ISSUED

4-3-36 NM
 IC 30-025-79565-80

LEA
CONOCO INC.

Eumont & Arrowhead
9 State "J-2"
Sec 2, T22S, R36E

NM
Page #2

4-17-82 COMPLETION ISSUED

4-3-37 NM
IC 30-025-70380-82

COUNTY **LEA** FIELD **Wantz** STATE **NM**
 OPR **QUANAH PETROLEUM, INC.** API **30-025-27150**
 NO **2** LEASE **Elliott "A" Federal** MAP
Sec 9, T21S, R38E RECORD
1650 FNL, 2310 FWL of Sec **4-3-36 NM**
7 mi NE/Eunice SPD **11-5-81** CMP **3-17-82**

8 5/8-1595-750 sx
 4 1/2-7750-1260 sx
 2 3/8-7509

WELL CLASS: INIT D FIN DO LSE CODE			
FORMATION	DATUM	FORMATION	DATUM
TD 7750 (WFMP)		PBD 7548	

IP (Abo) Perfs 7331-7543 P 374 BOPD + 42 BW. Pot based on
 24 hr test. GOR 173; gty 37

COUNTY **Cactus #18**

OPERATES

3570 GL

sub-s 9

10-5-81 F.R. 11-24-80
 PD 7900 RT (Abo)
 AMEND LOCATION: Formerly reported as 2310 FNL,
 1980 FWL of Sec
 11-9-81 TD 1616; SI
 Hole caving in
 11-30-81 Drlg 5555
 12-7-81 Drlg 7365 "Tight"
 12-14-81 Drlg 7750
 12-21-81 TD 7750; "Tight"
 4-12-82 TD 7750; PBD 7548; Complete
 Perf (Abo) 7331-7543 (overall)
 Acid (7331-7543) 25,210 gals
 LOG TOPS: Rustler 1623, Salt 1703, Yates
 2921, San Andres 4310, Glorieta 5627,
 Tubb 6620, Abo 7158

4-3-36 NM

LEA
QUANAH PETROLEUM, INC. Wantz
2 Elliott "A" Federal
Sec 9, T21S, R38E

NM
Page 2

4-17-82
5-8-82

COMPLETION ISSUED
RE-ISSUE TO ADD TBG, ACID, GTY, & LOG TOPS

4-3-36 NM
IC 30-025-70565-80