

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 ☐			5. LEASE DESIGNATION AND SERIAL NO. USA NM-0557836	
b. TYPE OF WELL OIL WELL ☐ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Apache Exploration Corporation			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 2299, Tulsa, Oklahoma 74101			8. FARM OR LEASE NAME Johnson-Federal Comm	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 660' FSL and 2007' FWL or the approx. Center of Unit Letter N, Sec. 1-T9S-R33E At proposed prod. zone Same as above			9. WELL NO. 1	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approx. 14 mi. WNW of Crossroads, New Mexico			10. FIELD AND POOL, OR WILDCAT Vada Penn	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. line, if any) 660'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 1-T9S-R33E	
16. NO. OF ACRES IN LEASE 80			12. COUNTY OR PARISH Lea	
17. NO. OF ACRES ASSIGNED TO THIS WELL 40			13. STATE New Mexico	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. First Well 9900			20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DE, RT, GR, etc.) GR 4330			22. APPROX. DATE WORK WILL START* June 25, 1973	

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	11 3/4"	42#	390'	To Circulate
11"	8 5/8"	24# & 32#	4,100'	375 Sks.
7 7/8"	5 1/2"	17#	9,900	500 Sks.

Apache Exploration proposes to drill a 9,900' Bough-C test. All shows of oil &/ or gas will be tested & evaluated. The mud system and blowout preventers will be maintained daily to assure proper well control at all times.

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 Leif O. Somers TITLE Regional Production Manager DATE June 14, 1973
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

APACHE EXPLORATION CORPORATION-

APACHE

P. O. BOX 2299 3 TULSA, OKLAHOMA 74101 3 4815 SOUTH HARVARD AVENUE 3 918/749-4651

June 14, 1973

U. S. Department of the Interior
Geological Survey
P. O. Box 1157
Hobbs, New Mexico 88240

Attention: Arthur R. Brown

Re: Johnson Federal Comm #1 (NM-0557836)
SE/4 SW/4 Sec. 1-T9S-R33E
Lea County, New Mexico

Gentlemen:

We are pleased to submit answers to the 12 questions that need to be answered by Apache Exploration prior to commencing drilling operations on the above captioned well.

- (1) Existing roads including location of the exit to the main highway. (See attached county map copy in regard to existing roads in the area.) Exit to the above location from the main highway will be in Crossroads, New Mexico. New Mexico State Highway 18 passes through Crossroads in a north-south direction.
 - (A) Turn west in Crossroads on the farm to market road and travel approximately 9.5 miles.
 - (B) From the point reached in (A) above, turn north and travel one mile, then turn west for 1/4 mile, turn north for 3/4 miles, turn west for 1/4 mile, turn north for 3/4 miles, turn west for 1/4 mile, turn north for 1/8 mile, turn west for 1/2 mile. (Our Caldwell #1 location)
- (2) Planned access roads. Actual roadway construction will begin at a point approximately 100' east of our Caldwell #1 location. A trail-like road will be built for 1/2 mile north and then 1/2 mile west to Johnson-Federal Comm #1 location. The route of this access road has been agreed upon by Apache and the surface rights owners.

- (3) Location of wells. Subsequent drilling and development operations will be dependent upon this test. Further development will not be on Federal land.
- (4) Lateral roads to well locations. (None at this time)
- (5) Location of tank batteries and flow lines. Oil storage tanks and treating facilities will be situated approximately 250' south of the Johnson-Federal Comm #1 well site on the access road. The oil flow line will be a 2" pipeline buried to a depth of 36". This line will be laid straight from the well to the heater-treater facility (see attached tank battery schematic).
- (6) Location and types of water supply. Water supply for drilling the Johnson-Federal Comm #1 will be obtained from a 2 7/8" OD steel salt water disposal line running from Hanson's Petroleum Midwest State #1. This well is directly 1/2 mile west of our proposed location. The S.W.D. line from Hanson's well runs southeast to our Caldwell #1 location. We have permission from Hanson Petroleum and the S.W.D. company to run a line from the Johnson-Federal Comm location to the closest portion of the line between the Midwest State #1 and the Caldwell #1. The line from the Johnson-Federal Comm location will run southwest to intersect with the S.W.D. line. This line will be buried to the required depth.
- (7) Methods for handling waste disposal. A small, temporary burn pit will be constructed at approximately 140' SSW of the well stake and all debris (rags, paper, cans, boards, etc.) will be collected in this pit and burned periodically. Upon completion of drilling operations this pit will be levelled and cleaned up and a permanent burn pit will be located adjacent to the tank battery. (See schematic) All persons working on the well will be instructed to keep all trash and debris picked up at all times and deposited in this burn pit, whereby scattering the debris will be reduced to a minimum.
- (8) Location of camps. No camps planned.
- (9) Location of air strips. No air strips planned.
- (10) Location layout of drilling rig and components. See attached drilling rig schematic.
- (11) Plans for restoration of the surface. Our field representative, Mr. Hugh Finley, Levelland, Texas, has contacted the parties who have control of the surface area around the well site. According to their wishes, upon completion of the drilling operations, the burn pit and mud reserve pits will be fenced and allowed to dry for several weeks. After the fluid and mud

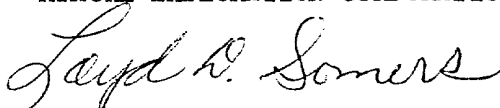
in the pit has dried sufficiently, the fence will be removed and the pits levelled in conformance with good ecological practice. This surface area will be restored to the near normal terrain as prevailed in the area prior to commencing drilling operations.

- (12) Additional information in evaluating the impact on the environment. The area in question consists of flat sandy soil with little native grass vegetation. The location area and proposed tank battery site is on level ground and will require the minimum amount of dirt work. The pad will consist of caliche 4" to 6" thick.

Apache Exploration proposes to commence drilling operations as soon as our permit request is approved. We request that should you have any questions concerning the above listed 12 questions and answers please feel free to call the undersigned collect at any time. Trusting this meets with the Department's approval.

Very truly yours,

APACHE EXPLORATION CORPORATION

A handwritten signature in cursive script, reading "Loyd D. Somers".

Loyd D. Somers
Regional Production Manager

LDS:tp

ROOSEVELT CO.

R33E

R34E

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Planned access road

1/2 mile North of 1/2 mile West

red line is water source

West 1/4, North 1/8, West 1/2 mile to our Caldwell #

West 1/4 & North 3/4 mile

West 1/4 & North 3/4 mile

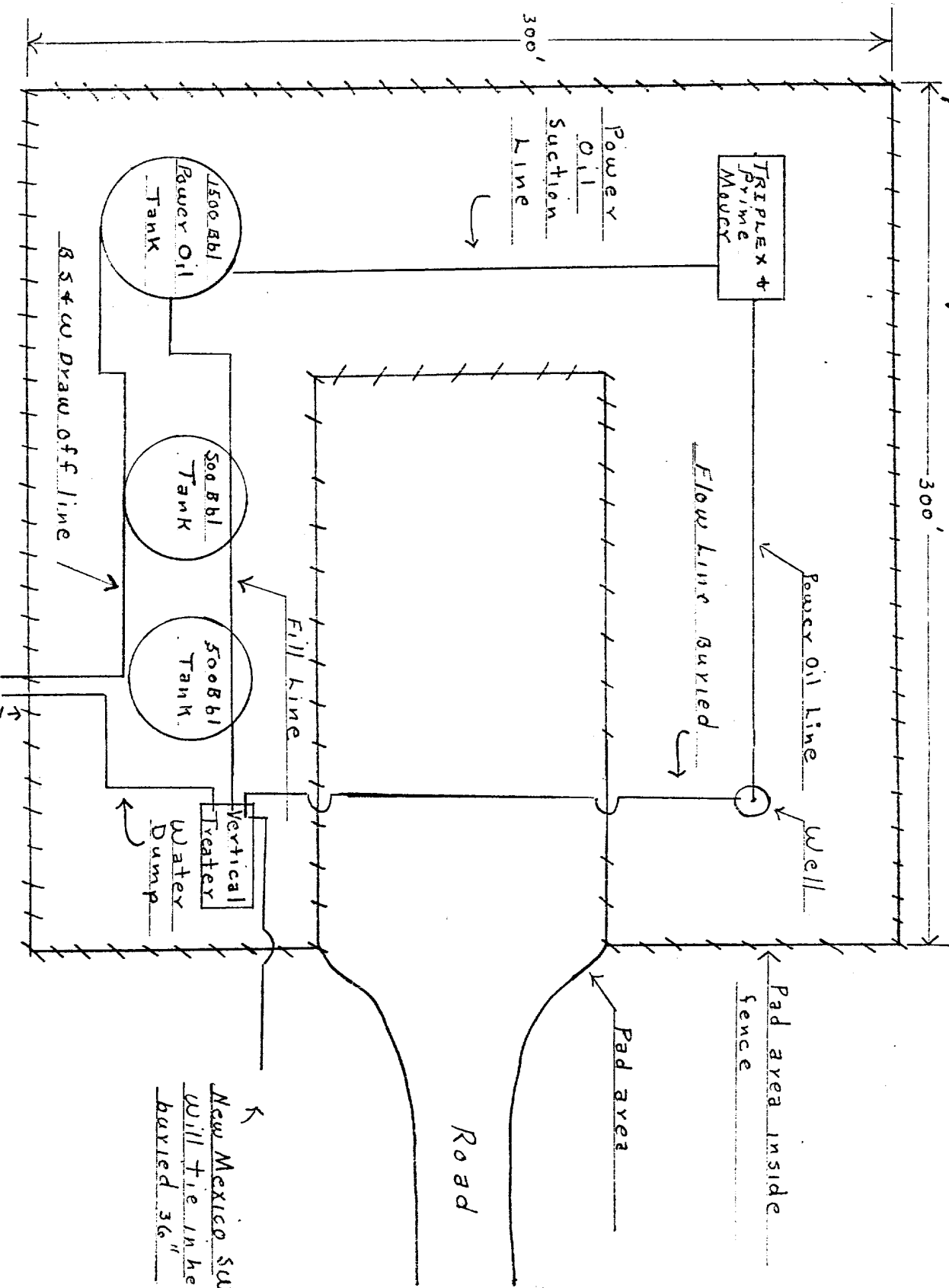
1 mi North

9.5 miles to Crossroads New Mexico

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

T9S

Apache Exploration - Johnson - Federal Comm.



SE/4 SW/4 Sec. 1 T9S R33E

Apache Exploration Johnson-Federal Comm
SE/4 - N/4 sec 1 T9S R. E Lea County

