

UNIT  
DEPARTMENT  
BUREAU OF

## APPLICATION FOR PERMIT

OPEN OCSID NO. 13954  
PROPERTY NO. 15158  
POOL CODE 59470  
EFF. DATE 1/16/98  
AP. NO. 30-025-01666ATE\*  
ons onFORM APPROVED  
OMB NO. 1004-0136  
Expires: February 28, 1995

## 1a. TYPE OF WORK

DRILL ☒ Re-entry DEEPEN ☐

## b. TYPE OF WELL

OIL WELL ☒ GAS WELL ☐ OTHER ☐SINGLE ZONE ☐ MULTIPLE ZONE ☐

## 2. NAME OF OPERATOR

Manzano Oil Corporation

505/623-1996

## 3. ADDRESS AND TELEPHONE NO.

P. O. Box 2107

Roswell, NM 88202

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

330' FSL &amp; 660' FWL

At proposed prod. zone

Same

Unit M

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

44 miles NE of Carlsbad, NM

## 10. DISTANCE FROM PROPOSED\*

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

330'

## 16. NO. OF ACRES IN LEASE

520

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1361'

## 19. PROPOSED DEPTH

4,100'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3660' GL

Capitan Controlled Water Basin

## 22. APPROX. DATE WORK WILL START\*

December 20, 1997

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8" J-55	24.0#	418'	Circ. 250 sx "C"
existing	8 5/8"	24.0#	1467'	Existing amt. unknown
6 1/8"	4 1/2" J-55	11.6#	3900'	500 SX HL + 300 SX "C"

## MUD PROGRAM:

0' - 418': Fresh water:

418' - 4100': Brine water mud:

## MUD WT.

8.6 ppg

9.0 ppg

## VIS.

29

33

## W/L Control

No W/L control.

No W/L control.

## BOP PROGRAM:

A 10" 3000 psi wp Schaffer Type E double hydraulic BOP will be installed on the 8 5/8" casing. Casing and BOP will be tested before drilling out with 6 1/8". The BOP will be used as a 2000 psi wp system and will be tested daily. See Exhibit "E".

Note: Propose to re-enter well, drill out plugs and install 8 5/8" casing to a depth of 418' to connect with 1,049 feet of 8 5/8" casing in hole. Then continue drilling out plugs to a T.D of 4100' and install 4 1/2" casing to a depth of 3900'. Will perforate casing between 3,600' to 3,650' to test the Seven Rivers formation.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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

*George Smith*

TITLE

Agent for:  
Manzano Oil Corp.

DATE

Dec. 1, 1997

(This space for Federal or State office use)

PERMIT NO.

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

(ORIG. SGD.) [Signature]

APPROVED BY

TITLE

ADM. MINERALS

DATE

1-12-98

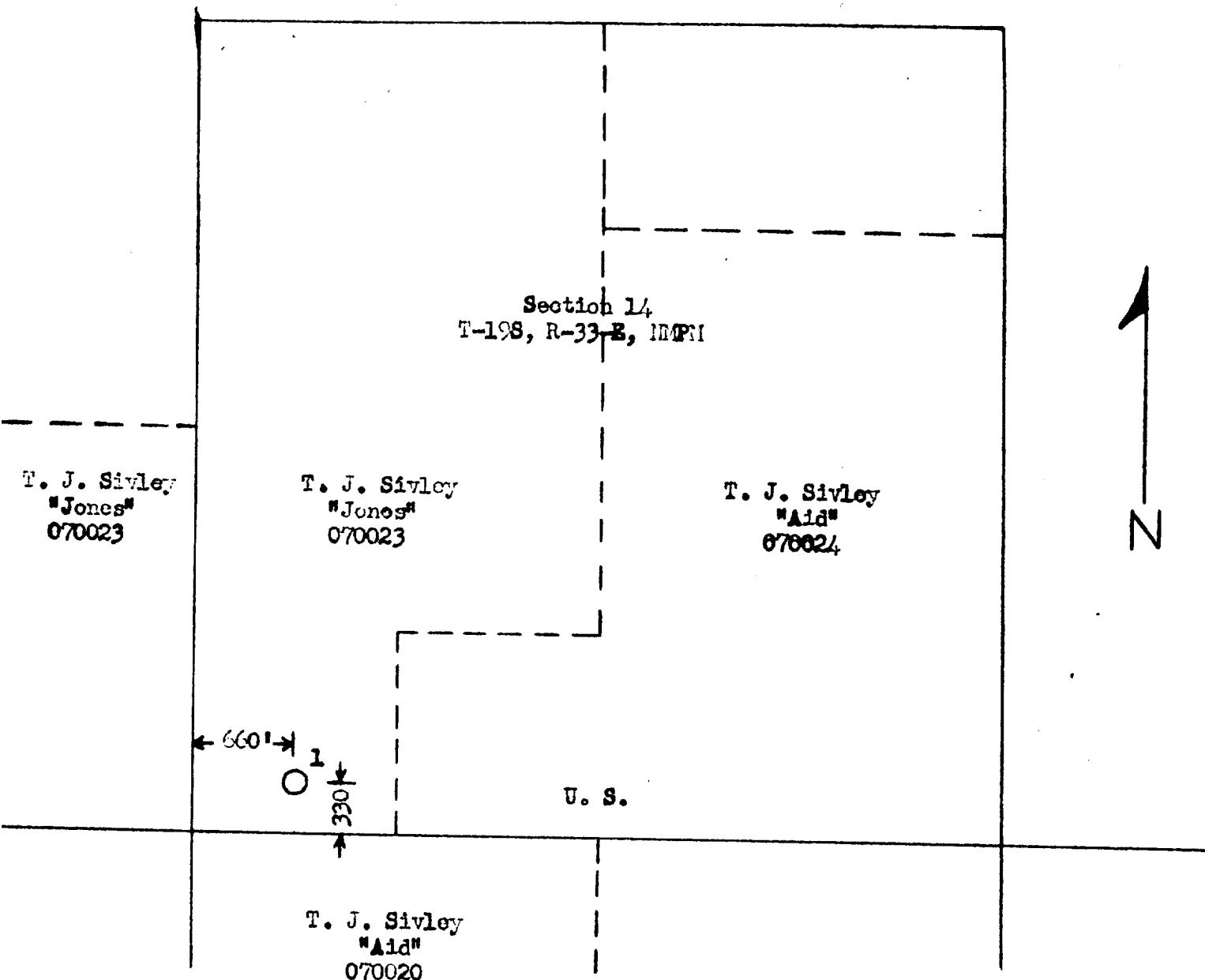
\*See Instructions On Reverse Side

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JAN 10 1971

1971 DEC -2 A 8:53

RECEIVED





I, L. O. Storm, a licensed surveyor of the State of New Mexico, hereby certify that I have surveyed upon the ground as platted herewith location site for T. J. Sivley and that said site is located 330 feet from the south line and 660 feet from the west line of Section 14, Township 19 South, Range 33 East, NMPM.

In witness whereof I herunto affix my hand and seal this 10th day of August, 1953.

**RECEIVED**  
AUG 12 1953  
LOGICAL SURVEY  
NEW MEXICO

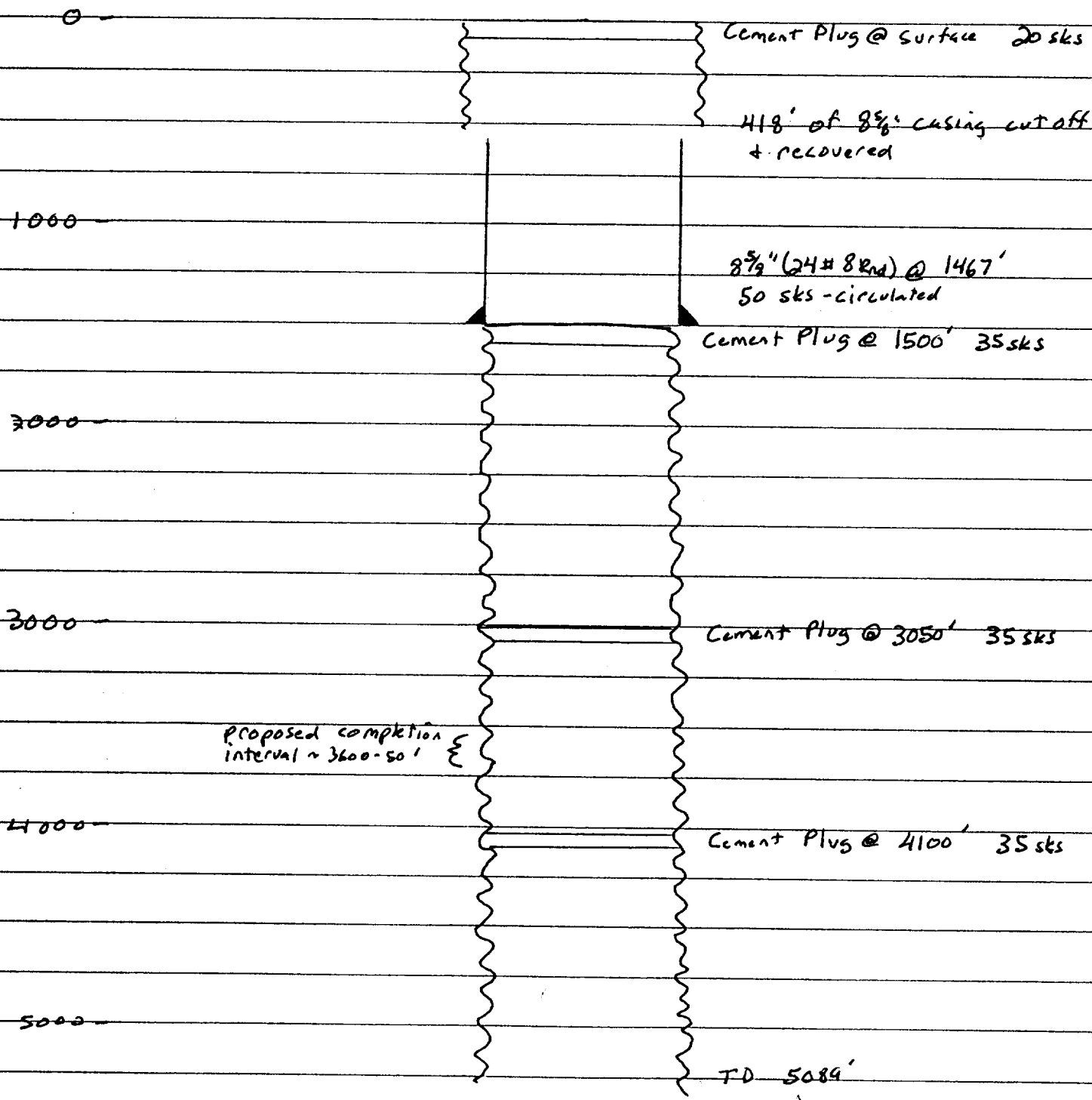
*L. O. Storm*  
L. O. Storm

T. J. Sivley

R. J. Jones #1

Sec. 14 - 19S - 33E

KB 3670



## APPLICATION FOR DRILLING

MANZANO OIL CORPORATION  
Federal (USA) "L", Well No.9 (Re-entry)  
330' FSL & 660' FWL, Sec. 14-T19S-R33E  
Lea County, New Mexico  
Lease No.: NM-56749  
(Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Manzano Oil Corporation submits the following items of pertinent information in accordance with BLM requirements:

1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.

2. The estimated tops of geologic markers are as follows:

Rustler	1450'	Top Yates	3285'
Top/Salt	1575'	Top Seven Rivers Sand	3746'
Base/Salt	3070'	T. D.	4100'
Top Tansill	3100'		

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Surface water between 100' - 350'.

Oil: Possible in the Seven Rivers below 3700'.

Gas: None expected.

4. Proposed Casing Program: See Form 3160-3.

5. Proposed Control Equipment: See Form 3160-3 and Exhibit "E".

6. Mud Program: See Form 3160-3.

7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.

8. Testing, Logging, and Coring Program:

Drill Stem Tests: None unless warranted.

Logging: Gamma Ray/neutron: T.D. to surface.  
DLL-MSFL, CNL-LTD: T.D. to 8 5/8" Casing.

Coring: None planned.

9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight. Estimated BHP = 2000 psi with temperature of 100°.

10 H<sub>2</sub>S: None expected based on previously drilled wells.

11. Anticipated starting date: December 20, 1997.

Anticipated completion of drilling operations: Approx. 3 weeks.

## **MULTI POINT SURFACE USE AND OPERATIONS PLAN**

MANZANO OIL CORPORATION  
Federal (USA) "L", Well No. 9  
330' FSL & 660' FWL, Sec. 14-T19S-R33E  
Lea County, New Mexico  
Lease No. : NM-56749  
(Development Well-Re-entry)

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operations.

### **1. EXISTING ROADS:**

- A. Exhibit "A" is a portion of a BLM color quad map showing the location of the well as staked. The well site location is approximately 48 road miles east of Carlsbad, New Mexico or 33 road miles west of Hobbs, NM. Traveling east of Carlsbad there will be approximately 39 miles of paved highway and 5 miles of gravel county/ranch/oilfield roads.
- B. Directions: Travel east from Carlsbad, NM on U.S. Highway 62/180 for approximately 39 miles to a county road .5 mile past MM No. 75; turn left (northwest) onto the County maintained gravel road at a Smith Ranch sign. Continue northwest for 2 miles; then west crossing cattle guard into the Smith Ranch; .2 mile north; .6 mile west to Union Oil well site; then north .3 mile crossing cattle guard. Continue north for 1.1 mile to a caliche pit on the right, then .6 mile north to start of the existing access road on the right. The existing access road runs east for approximately 600 feet, then north 200 feet to the southwest corner of the old well site.

### **2. PLANNED ACCESS ROAD:**

- A. Length and Width: This existing access road is approximately 12 feet in width and 800 feet in length.
- B. Construction: The existing access road will be repaired by blading and compacting the caliche surface and will be properly drained.
- C. Turnouts: None required.
- D. Culverts: None required.
- E. Cuts and Fills: None required.
- F. Gates, Cattle guards: None required.
- G. Off Lease R/W: There is an existing Right of Way : No. NM-82252.

### **3. LOCATION OF EXISTING WELLS:**

- A. Existing wells within a two mile radius are shown on Exhibit "C".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:**

- A. There are production facilities on the lease at this time.
- B. If the well proves to be commercial, the necessary production facilities, gas separation-process equipment will be installed on the drilling pad with a 2 3/8" SDR 11 poly pipe surface flow line that will run parallel to the existing access roads to the Federal (USA) "L", Well No. 6 well pad and the pipeline to Well No. 1 tank battery.

**5. LOCATION AND TYPE OF WATER SUPPLY:**

- A. It is planned to drill the proposed well with fresh water that will be obtained from private or commercial sources and will be transported over the existing and proposed access roads or by a surface fast line.

**6. SOURCE OF CONSTRUCTION MATERIALS:**

- A. Caliche for surfacing the access road and well site pad will be obtained on location, if possible, or from an approved Federal pit in SE¼-~Sec. 22-T19S-R33E. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access road.

**7. METHODS OF HANDLING WASTE DISPOSAL:**

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or a separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste paper, garbage and junk will be contained in trash bins to prevent scattering and will be removed for deposit in an approved sanitary land fill within 30 days after finishing drilling and/or completion operations.

**8. ANCILLARY FACILITIES:**

- A. None required.

**9. WELL SITE LAYOUT:**

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The well pad and pit area have been staked and flagged, 400' X 400'.
- B. Mat Size: 250' X 150', plus 85' X 85' reserve pits on the north.
- C. Cut & Fill: No cut and fill required but will require trimming and leveling.
- D. The surface will be topped with compacted caliche and the pits will be plastic lined.

**10. PLANS FOR RESTORATION OF THE SURFACE:**

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in an aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced and screened until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled as soon as they are sufficiently dried.

**11. OTHER INFORMATION:**

- A. Topography: The well site and access road are located in the Querecho Plains with 2 - 4 foot vegetation covered sand dunes and deflation basins with an overall 1.6% slope to the southwest from a 3660' GL elevation.
- B. Soil: The topsoil at the well site is a fine sandy loam of the Pyote and Maljamar fine sands Soils Series.
- C. Flora and Fauna: The vegetation cover on the proposed access road and location is a sparse to fair grass cover of three-awn, sand dropseed, bluestem grama and other misc. native grasses along with plants of mesquite, yucca, sage, broomweed, sunflowers, cacti and miscellaneous weeds and wildflowers. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None in the immediate area.
- E. Residences and Other Structures: None in the area except oilfield equipment.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed well site and access road is on Federal surface and minerals.



11. **OTHER INFORMATION:** cont.....

- H. There is no evidence of any archaeological, historical or cultural sites in the area. An archaeological survey will be conducted by Archaeological Survey Consultants, P. O. Box D, Roswell, NM 88202, and their report is being submitted to the appropriate government agencies.

12. **OPERATOR'S REPRESENTATIVE:**

- A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

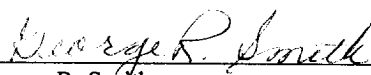
Ronnie Carre  
P.O. Box 3  
Loco Hills, NM 88255  
Office Phone: (505) 623-1996  
Home Phone: (505) 677-3454

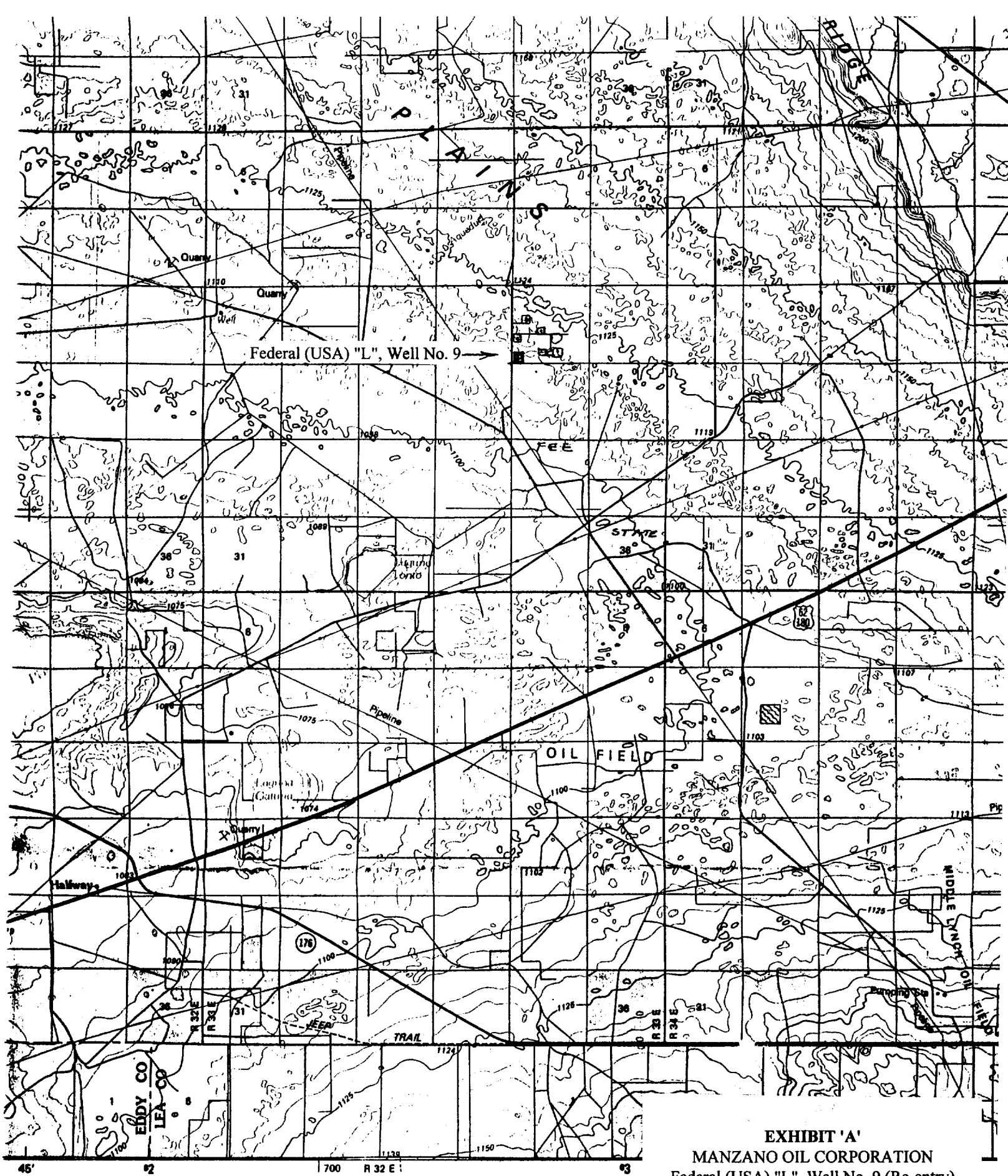
Kenneth Barbe, Jr.  
Manzano Oil Corporation  
P. O. Box 2107  
Roswell, NM 88202  
Office Phone: (505) 623-1996

13. **CERTIFICATION:**

I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Manzano Oil Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

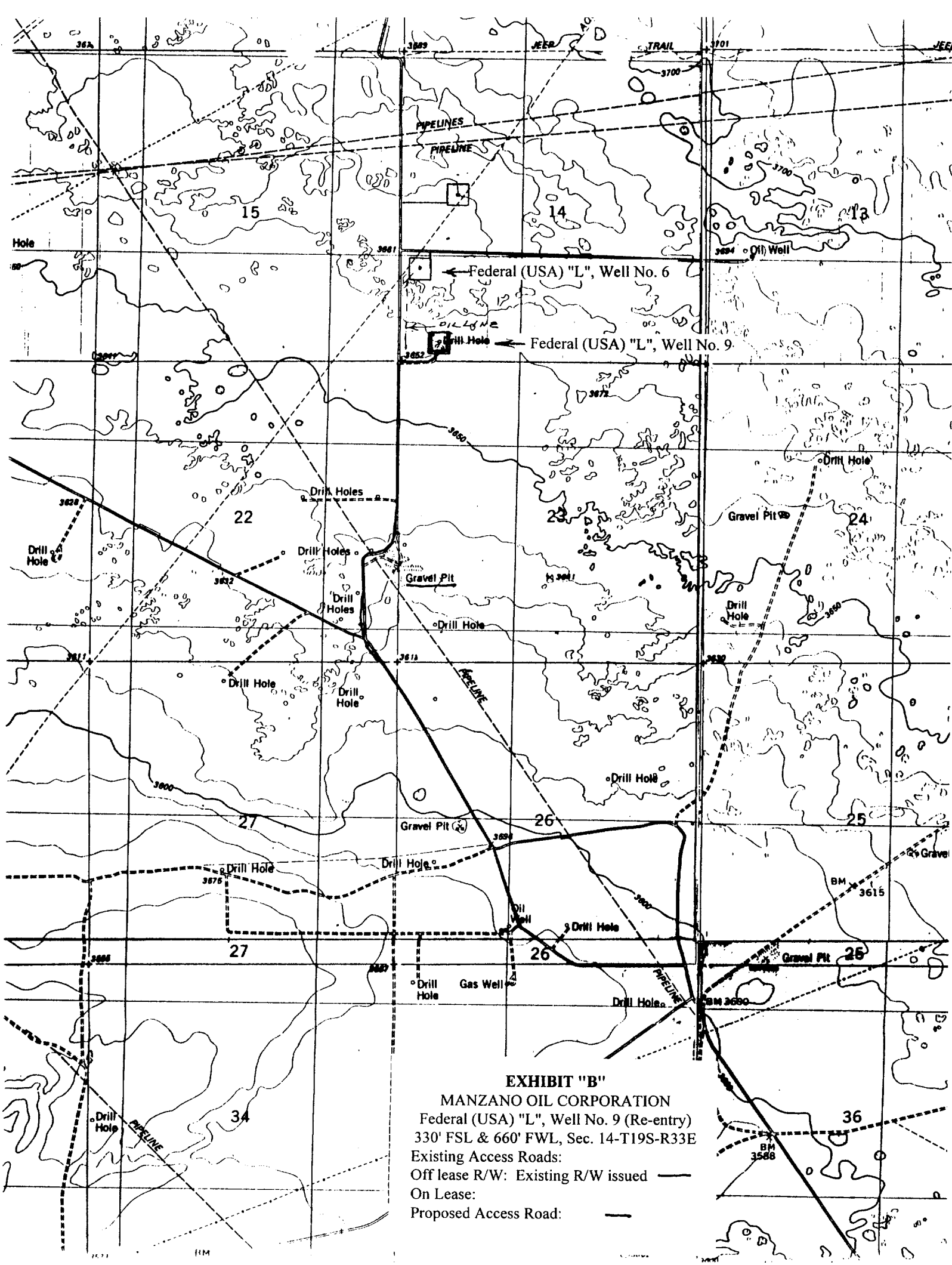
December 1, 1997

  
\_\_\_\_\_  
George R. Smith  
Agent for: Manzano Oil Corporation

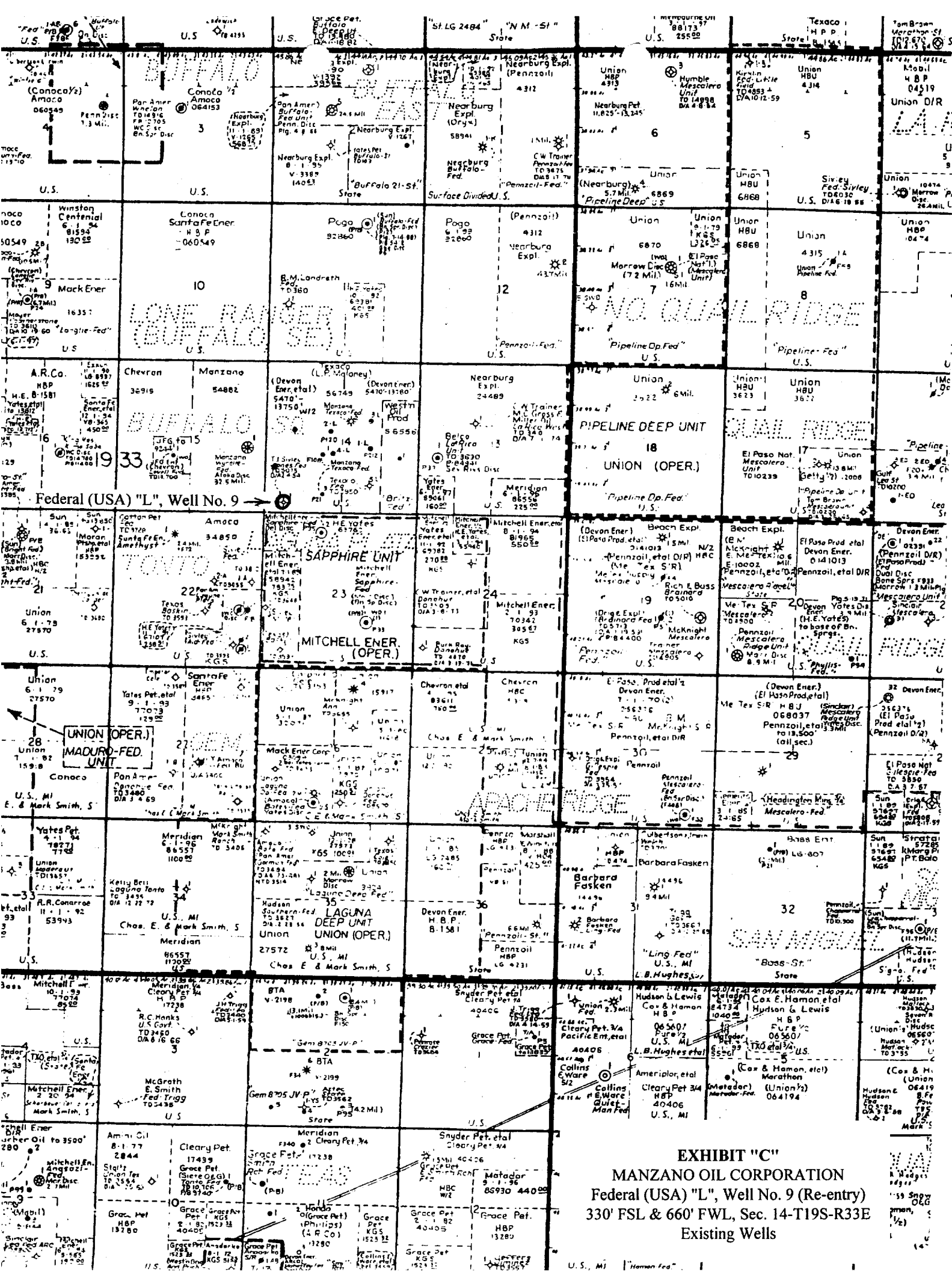


**EXHIBIT 'A'**  
**MANZANO OIL CORPORATION**  
 Federal (USA) "L", Well No. 9 (Re-entry)  
 330' FSL & 660' FWL, Sec. 14-T19S-R33E  
 Existing Access Roads:  
 Proposed Access Road: —





**EXHIBIT "B"**  
**MANZANO OIL CORPORATION**  
 Federal (USA) "L", Well No. 9 (Re-entry)  
 330' FSL & 660' FWL, Sec. 14-T19S-R33E  
 Existing Access Roads: ———  
 Off lease R/W: Existing R/W issued ———  
 On Lease: ———  
 Proposed Access Road: ———



**EXHIBIT "C"**

MANZANO OIL CORPORATION

Federal (USA) "L", Well No. 9 (Re-entry)

330' FSL & 660' FWL, Sec. 14-T19S-R33E

## Existing Wells

PLOT LAYOUT KIG 3

WEK DRILLING

8-29-89

L.N.A.

LEDA

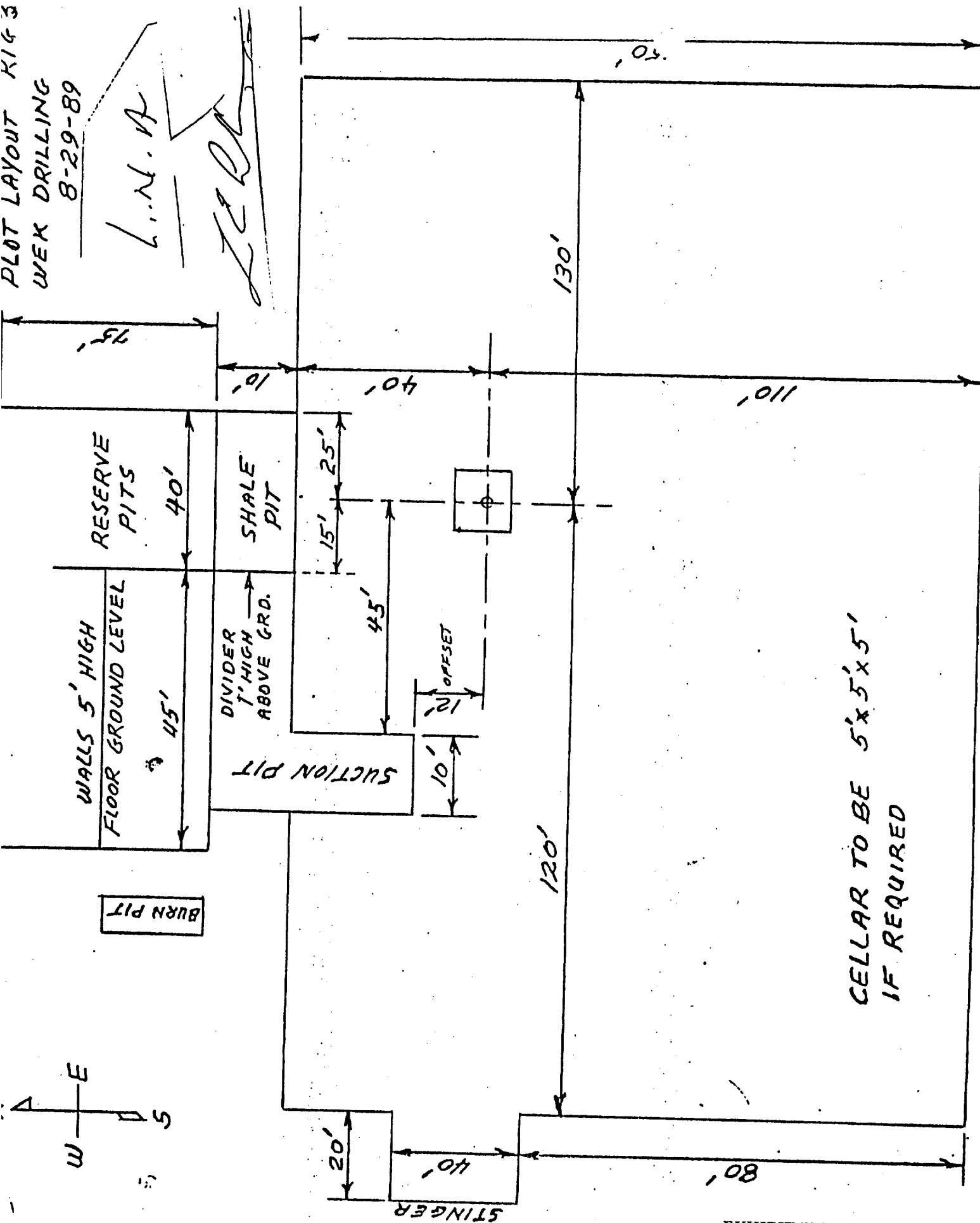


EXHIBIT "D"  
MANZANO OIL CORPORATION  
Federal (USA) "L", Well No. 9  
Pad & Pit Layout



KEN REYNOLDS--PRESIDENT  
ARNIE NEWKIRK--VICE-PRESIDENT

DRILLING CO., INC. - OIL WELL DRILLING CONTRACTORS

P. O. Box 1498 ROSWELL, NEW MEXICO 88202-1498

505/623-5070

ROSWELL, NM

505/746-2719

ARTESIA, NM

RIG #3

## BLOWOUT PREVENTOR ARRANGEMENT

10" SHAFFER TYPE "E", 3000 psi WP

80 GALLON, 4 STATION KOOMEY ACCUMULATOR

3000 psi WP CHOKE MANIFOLD

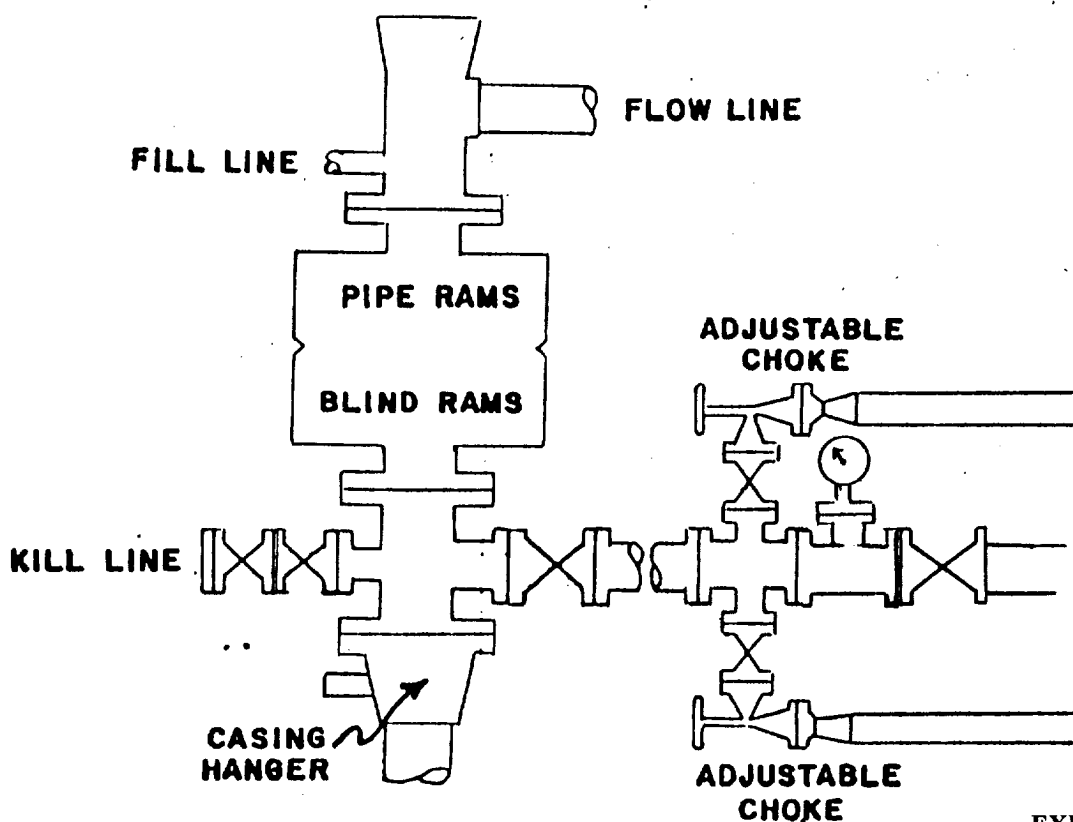


EXHIBIT "E"  
MANZANO OIL CORPORATION  
Federal (USA) "L", Well No. 9  
BOP Specifications