

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SUBMIT IN PLICATE*
(Other instructions on reverse side)

31-015-25904
Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

APR 13 88

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

5. LEASE DESIGNATION AND SERIAL NO.

NM-55124

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Adams Apple Federal Com.

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Burton Flat Morrow

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

Sec. 35-T20S-R28E

12. COUNTY OR PARISH

Eddy

New Mexico

b. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

SINGLE ZONE ☐

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Manzano Oil Corporation

3. ADDRESS OF OPERATOR

P. O. Box 2107 Roswell, NM 88202

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

At surface

990' FSL & 1980' FEL

At proposed prod. zone

same

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

12 road miles east of Carlsbad, NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.

660'

(Also to nearest drlg. unit line, if any)

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

none

16. NO. OF ACRES IN LEASE

240

17. NO. OF ACRES ASSIGNED TO THIS WELL

320

19. PROPOSED DEPTH

11,700'

20. ROTARY OR CABLE TOOLS

Rotary

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

3198' GL

22. APPROX. DATE WORK WILL START*

ASAP after approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20 17 1/2"	13 3/8"	65#	400'	300 sx circulated
14 3/4"	11 3/4"	42#	1,450'	750 sx circulated
12 1/4" 12"	8 5/8"	24#	2,600'	600 sx circ'd
7 7/8"	5 1/2"	17#	11,700'	300 sx

Mud Program: *omissions & changes as per telecon w/Ken Barbe, Manzano Oil Co.

0' - 400' Spud mud with native mud.

~~400' - 1,450' Brine Water native mud, 9-9.5 ppg, Vis. 30-35, no W/L control.~~

1,450' - 11,000' Fresh water mud, 9-9.5 ppg, vis. 30-35, no W/L control.

11,000' - 11,700' Cut brine water mud, 9-9.5 ppg vis. 30-35, W/L 20 cc or less.

BOP Program:

A 3000 psi 900 Series Shaffer double hydraulic operated BOP will be used and tested daily. See Exhibit "E".

Gas is dedicated.

POST 10-1
NL & API
4-15-88

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.

Agent for:

SIGNED

George Smith

TITLE

Manzano Oil Corporation

DATE

March 11, 1988

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

David Adams

TITLE

AREA
CARLSBAD

DATE

4-11-88

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

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

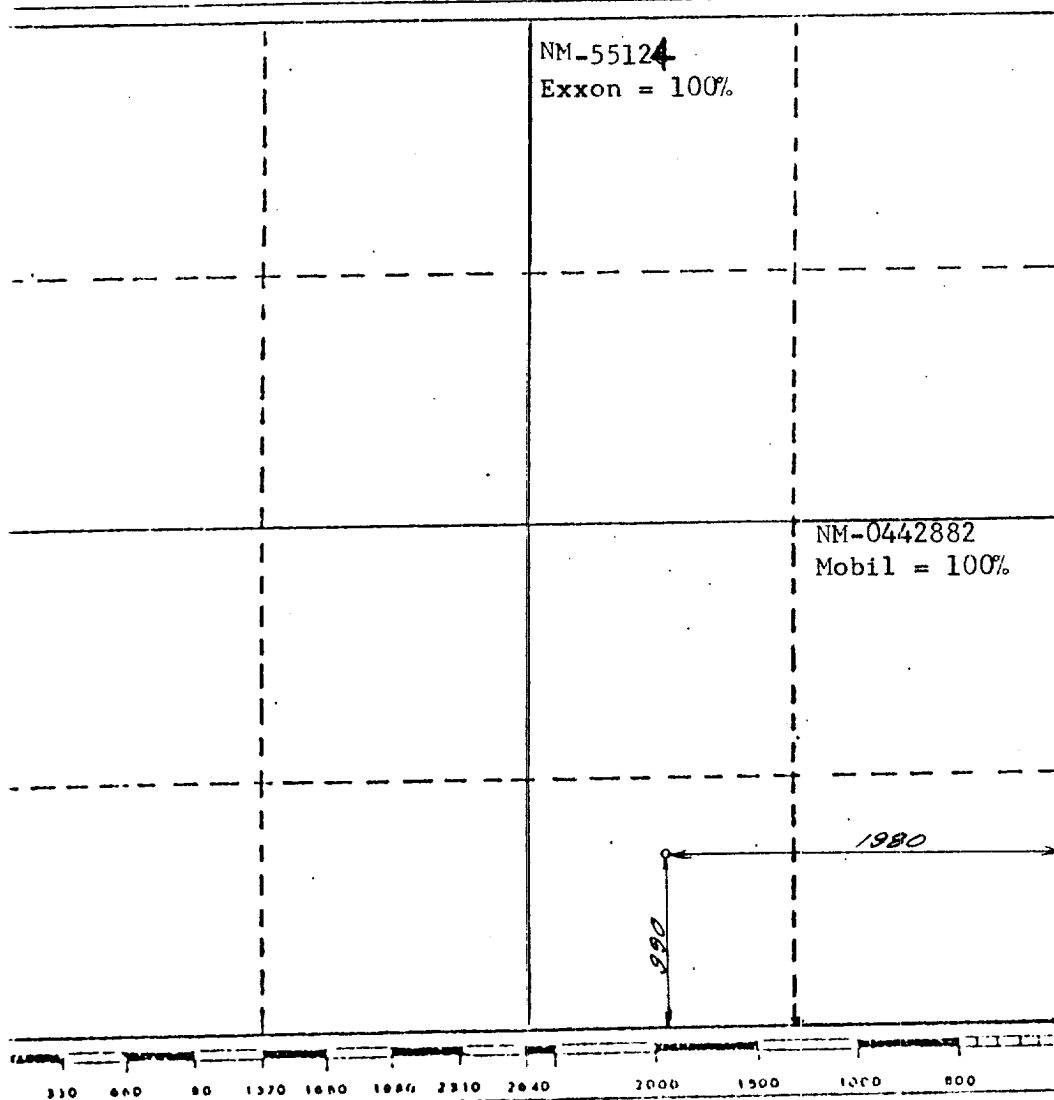
Operator Manzano Oil Corporation			Lease Adam's Apple Federal Com.		Well No. 1
Init Letter O	Section 35	Township 20 South	Range 28 East	County Eddy	
Actual Footage Location of Well: 990 feet from the South line and 1980 feet from the East line					
Ground Level Elev. 3198	Producing Formation Morrow		Pool UDD. Burton Flat Morrow		Dedicated Acreage: 320 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 communitization

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.

Name
George R. Smith

Position
Agent for:

Company
Manzano Oil Corp.

Date
March 11, 1988

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.

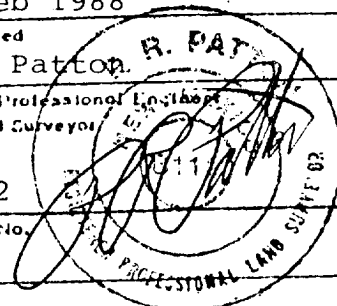
29 Feb 1988

Date Surveyed
P.R. Patton

Registered Professional Engineer and/or Land Surveyor

8112

Certificate No.



WEK DRILLING CO., INC. - Rig 2
BLOWOUT PREVENTER SPECIFICATION

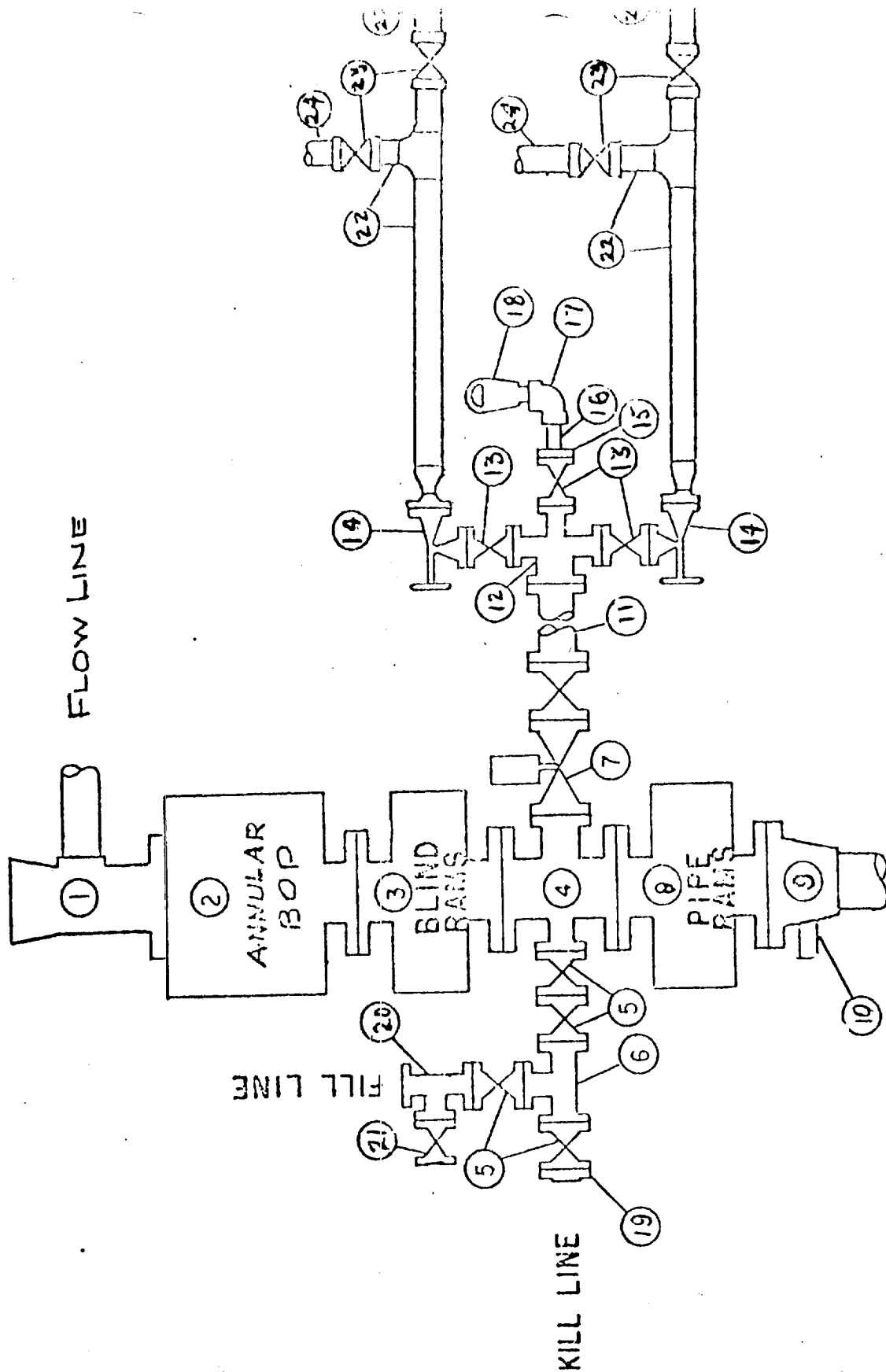


EXHIBIT "E"
 MANZANO OIL CORPORATION
 Adams Apple Federal, Well No. 1
 BOP Specification

10/15/74

APPLICATION FOR DRILLING

MANZANO OIL CORPORATION
Adams Apple Federal Com., Well No. 1
990' FSL & 1980' FEL, Sec. 35-T20S-R28E
Eddy County, New Mexico
Lease No.: NM-55124
(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:

Delaware	3100'	Canyon	9933'
Bone Spring	5360'	Strawn	10,045'
1st B/Spring Sand	6612'	Atoka	10,440'
2nd B/Spring Sand	7315'	Morrow Lm.	10,994'
Wolfcamp	9090'	Morrow Sand	11,080'
Cisco	9860'	Barnett	11,550'
		T. D.	11,700'

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

Water: Random fresh water sands from surface to 300'+/-.

Gas: Morrow below 10,994'.

Oil: Possible in Delaware below 3200' and in Morrow below 10,994.

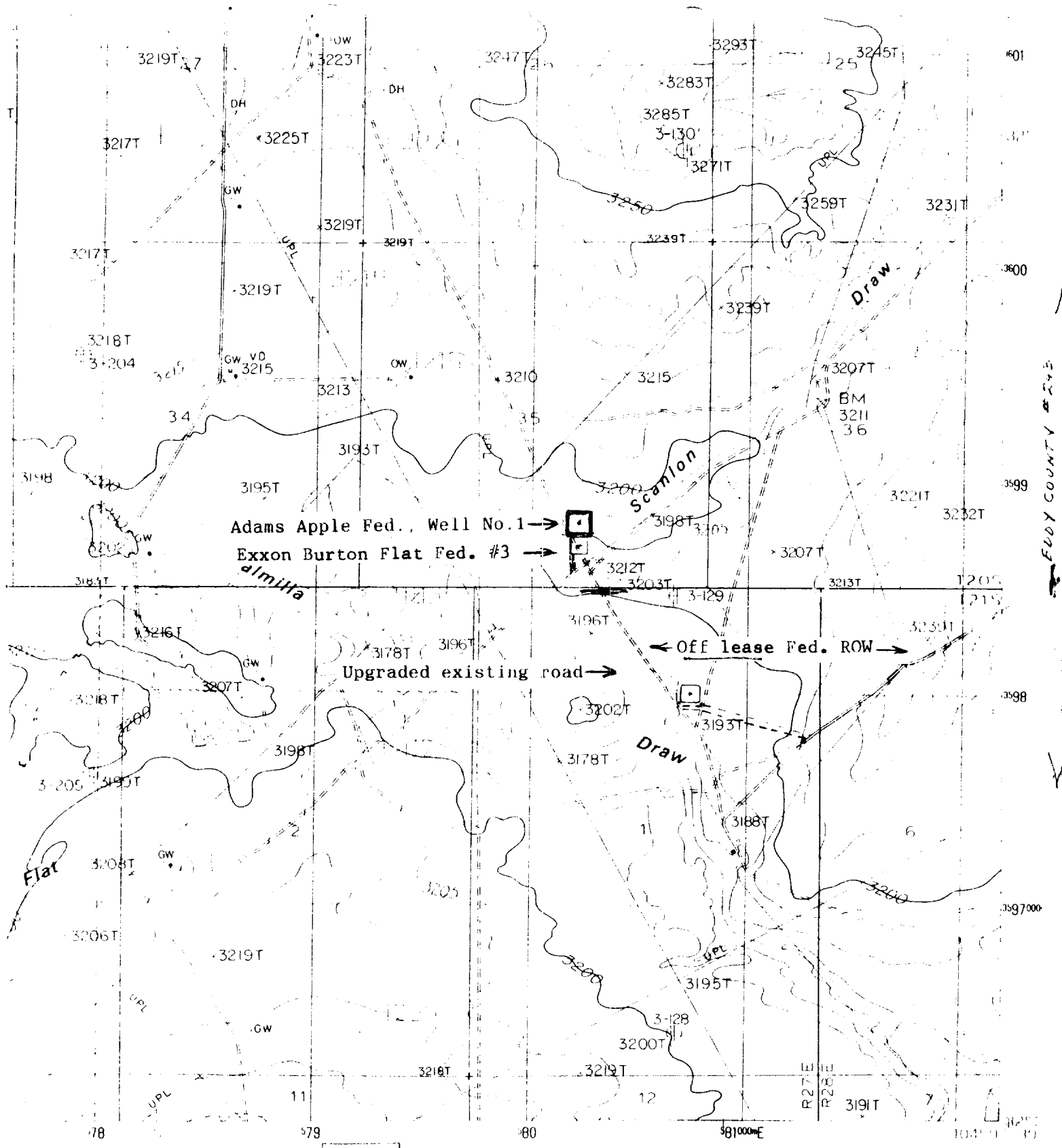
4. Proposed Casing Program: See Form 3160-3.
5. Pressure Control Equipment: See Form 3160-3 and Exhibit "E".
6. Mud Program: See Form 3160-3.
7. Auxiliary Equipment: Blowout preventer, gas detector, kelly cock, pit level monitor, flow sensors and stabbing valve.
8. Testing, Logging and Coring Program:

Drill Stem Tests: One planned in the Morrow.

Logging: Gamma Ray	Surf. Csg. to T.D.
DLL, CNL-FDC, MSFL	Inter.Csg. to T.D.

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.
10. Anticipated starting date: As soon as possible after approval.
Anticipated completion of drilling operations: Four weeks.



NEW MEXICO

QUADRANGLE LOCATION

1	2	3	1 Lake McMillan North
			2 Illinois Camp
			3 Illinois Camp NE
4		5	4 Lake McMillan South
			5 Illinois Camp SE
			6 Illinois Camp SW

EXHIBIT "B"

MANZANO OIL CORPORATION

Adams Apple Federal, Well No. 1

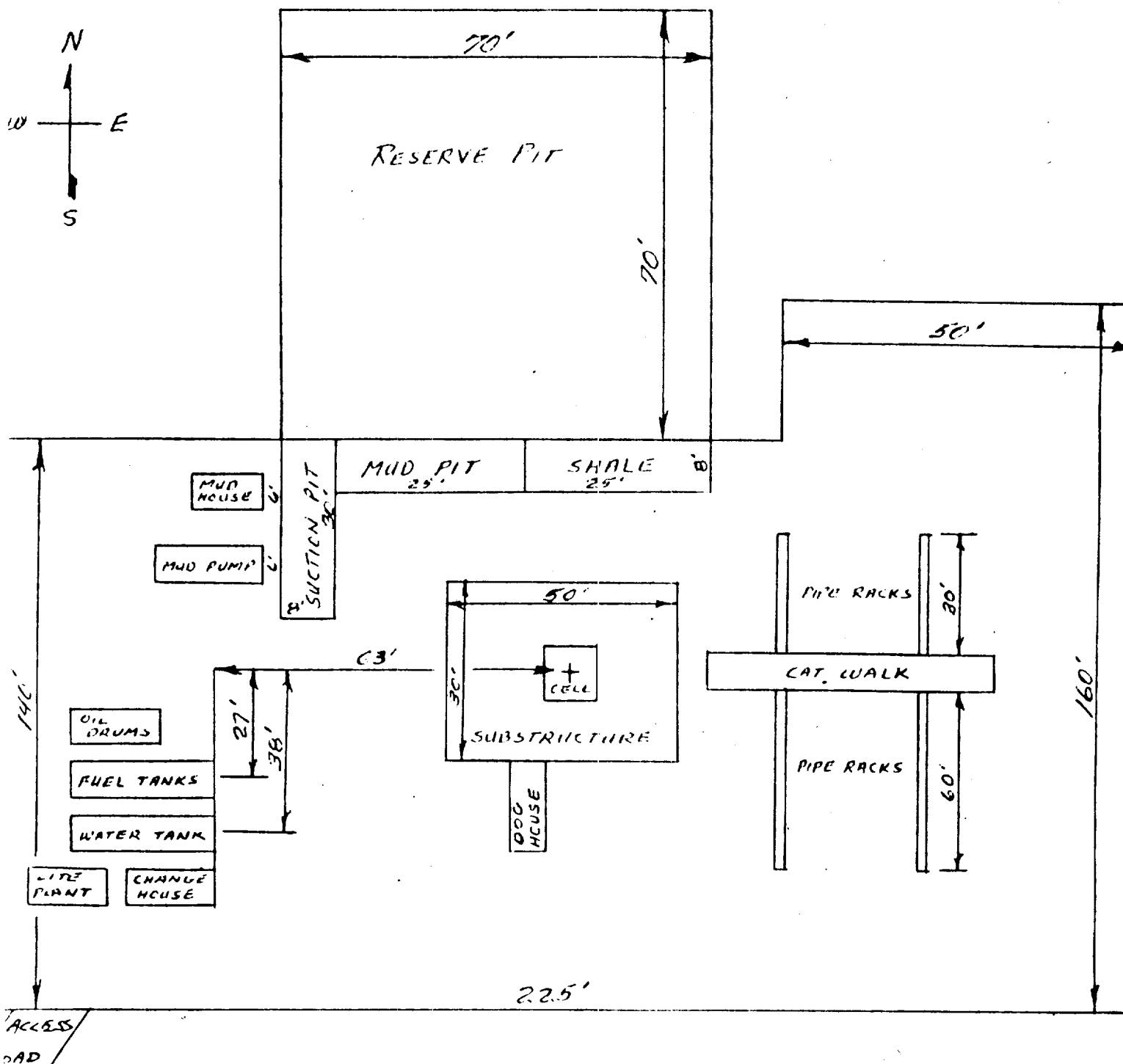
990' FSL & 1980' FEL, Sec. 35-T20S-R28E

Paved Highway:

Existing Access Road:

Off-lease ROW :

ANGEL DRAW, NEW MEXICO



CELLAR

THIS RIG IS EQUIPTED WITH SHAFFER LWS SERIES 900 DOUBLE BOP HYDRAULIC OPERATED - WITH BLANKS 4" AND 4 1/4" WITH SIDE CONNECTIONS -

MAINTAIN 3' SPACING BETWEEN OIL DRUMS, FUEL TANKS, WATER TANK AND CHANGE HOUSE -

PUT CASING TOOLS ON NORTH SIDE OF RIG

EXHIBIT "D"
MANZANO OIL CORPORATION
Adams Apple Federal, Well No. 1
Rig Layout