

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-039-22073

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  
 Palmer Oil & Gas Company

3. ADDRESS OF OPERATOR  
 P. O. Box 2564, Billings, Montana 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 SE 1/4 NW 1/4 1530 FNL, 1460 FWL

F At proposed prod. zone  
 Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approx. 27 miles North of Ojito

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 1460

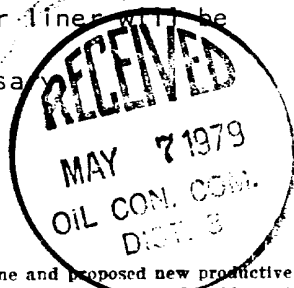
18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 6350'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 7274 G.R.      7285 K.B.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8" new	36#	300'	300 sacks
8-3/4"	7" new	20#	4050'	250 sacks
6-1/4"	4-1/2" new	10.5#	6350'	600 sacks

- Palmer Oil & Gas Company will drill a 6350' Mesaverde test in the SE 1/4 NW 1/4 of Section 16-T27N-R2W.
- Well to be drilled by rotary tools. Set 300' of 9-5/8" casing and cement to surface; drill 8-3/4" hole to 4050' and set 7" casing. Air drill 4,050' to T.D. and run 4 1/2" casing.
- IES and Porosity logs will be run at T.D. All potential zones will be analyzed from surface to total depth, and if potentially commercial, 4 1/2" casing or liner will be set, cemented and perforated.
- After perforating, the productive zones will be fractured, if necessary.
- Survey plat attached.
- Spacing unit will be W 1/2 of Section 16.
- Gas is not dedicated.



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 Robert D. Ballantyne TITLE Drilling Superintendent DATE May 3, 1979  
 Robert D. Ballantyne  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:  
ok Frank

5. LEASE DESIGNATION AND SERIAL NO.  
 Joint Venture

6. IF INDIAN, ALLOTTED OR TRIBE NAME  
 Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Apache-JVA

9. WELL NO.  
~~No. 11-6A~~

10. FIELD AND POOL, OR WILDCAT  
 Blanco-Mesaverde *upt*

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 SE 1/4 NW 1/4 Sec. 16-27N-2W

12. COUNTY OR PARISH  
 Rio Arriba

13. STATE  
 New Mexico

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-102  
Revised 10-1-78

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

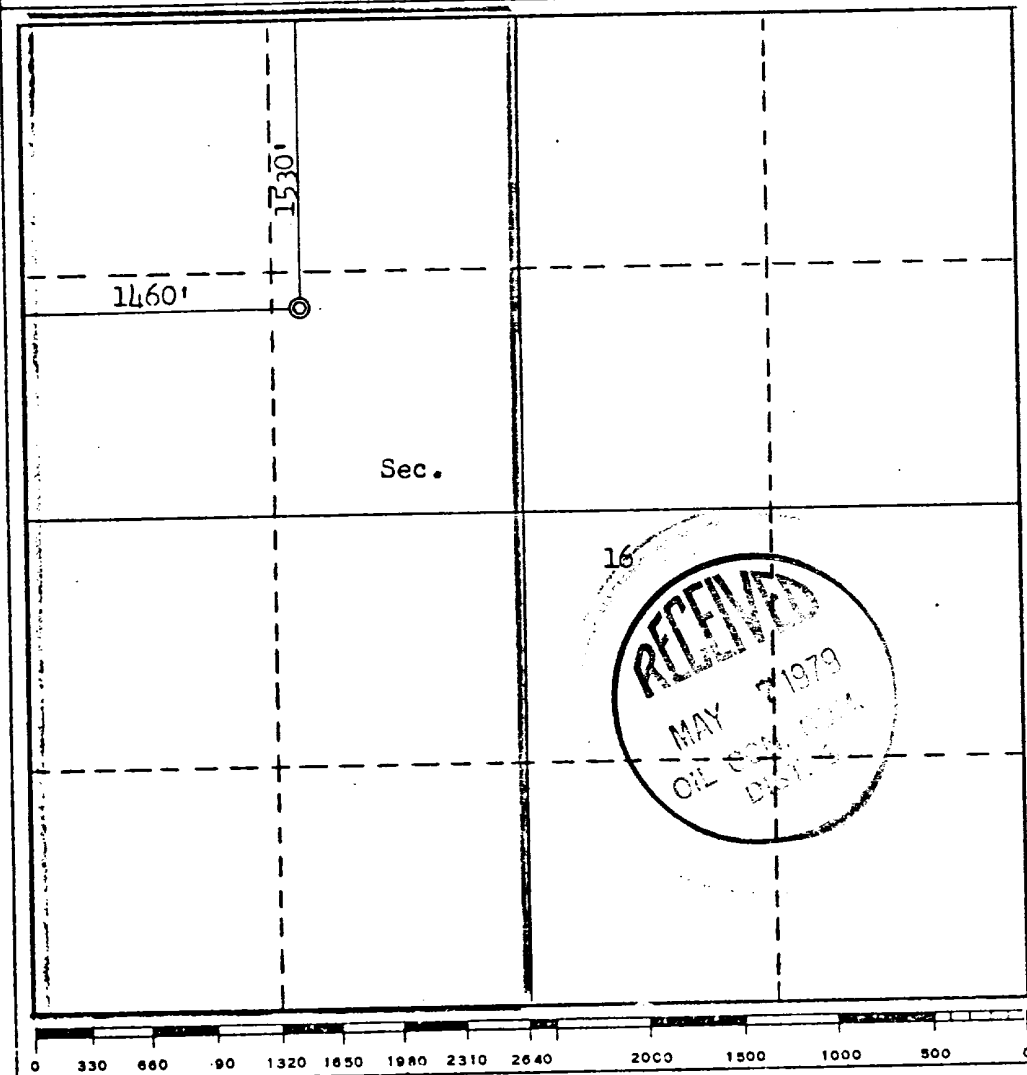
Operator <b>PALMER OIL &amp; GAS COMPANY</b>			Lease <b>JVA Apache JVA</b>		Well No. <b>6A</b>
Unit Letter <b>F</b>	Section <b>16</b>	Township <b>27N</b>	Range <b>2W</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well: <b>1530</b> feet from the <b>North</b> line and <b>1460</b> feet from the <b>West</b> line					
Ground Level Elev. <b>7274</b>	Producing Formation <b>Mesa Verde</b>	Pool <b>Blanco-Mesa Verde</b>		Dedicated Acreage: <b>320</b> 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.) Joint Venture

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.

**Robert D Ballantine**  
Name  
**Drilling Superintendent**  
Position  
**Palmer Oil & Gas Co**  
Company  
**May 4, 1979**  
Date

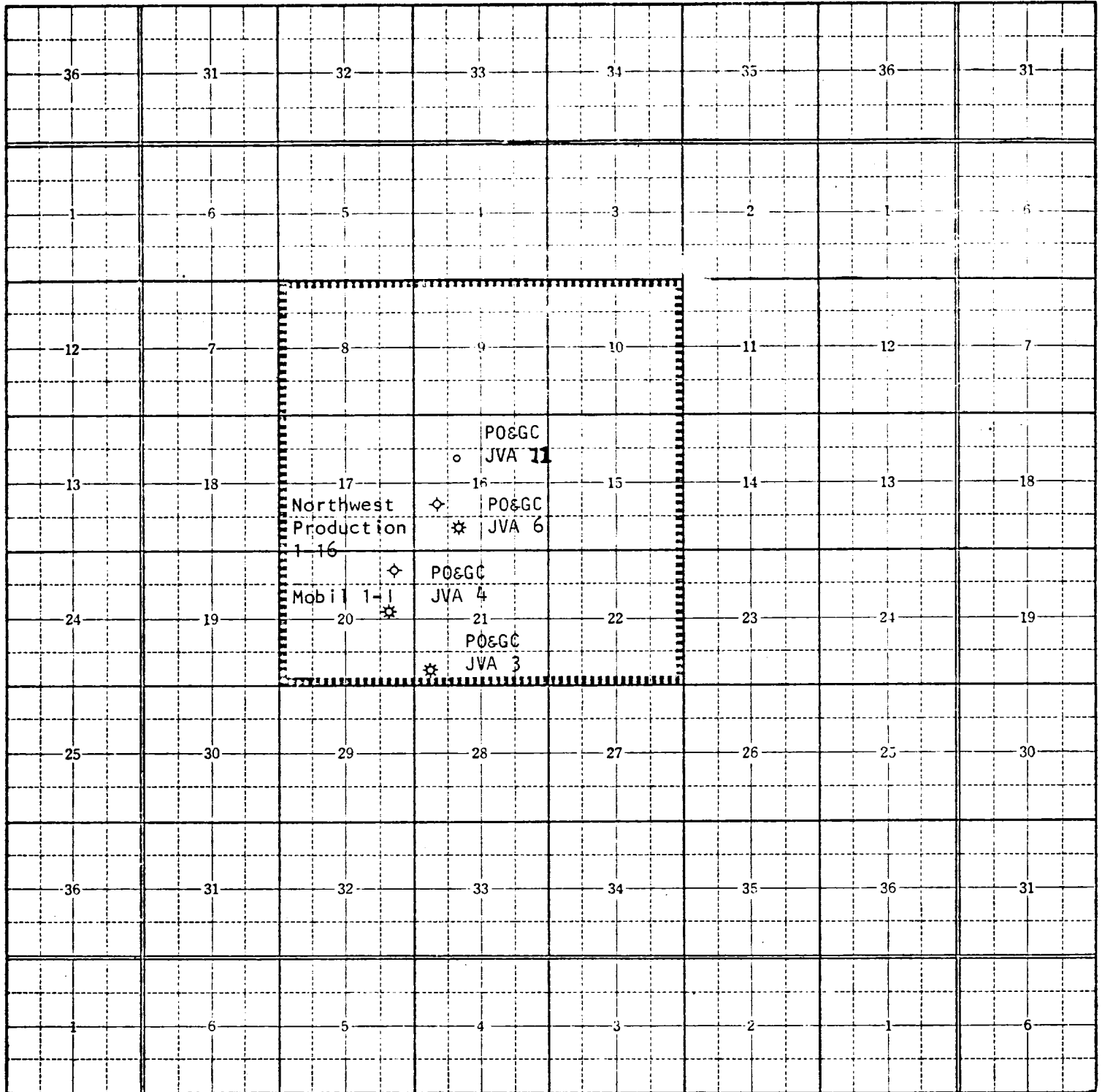
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
**April 28, 1979**  
Registered Professional Engineer  
and Land Surveyor  
**Fred B. Kerr Jr**

Certificate No.  
**3950**

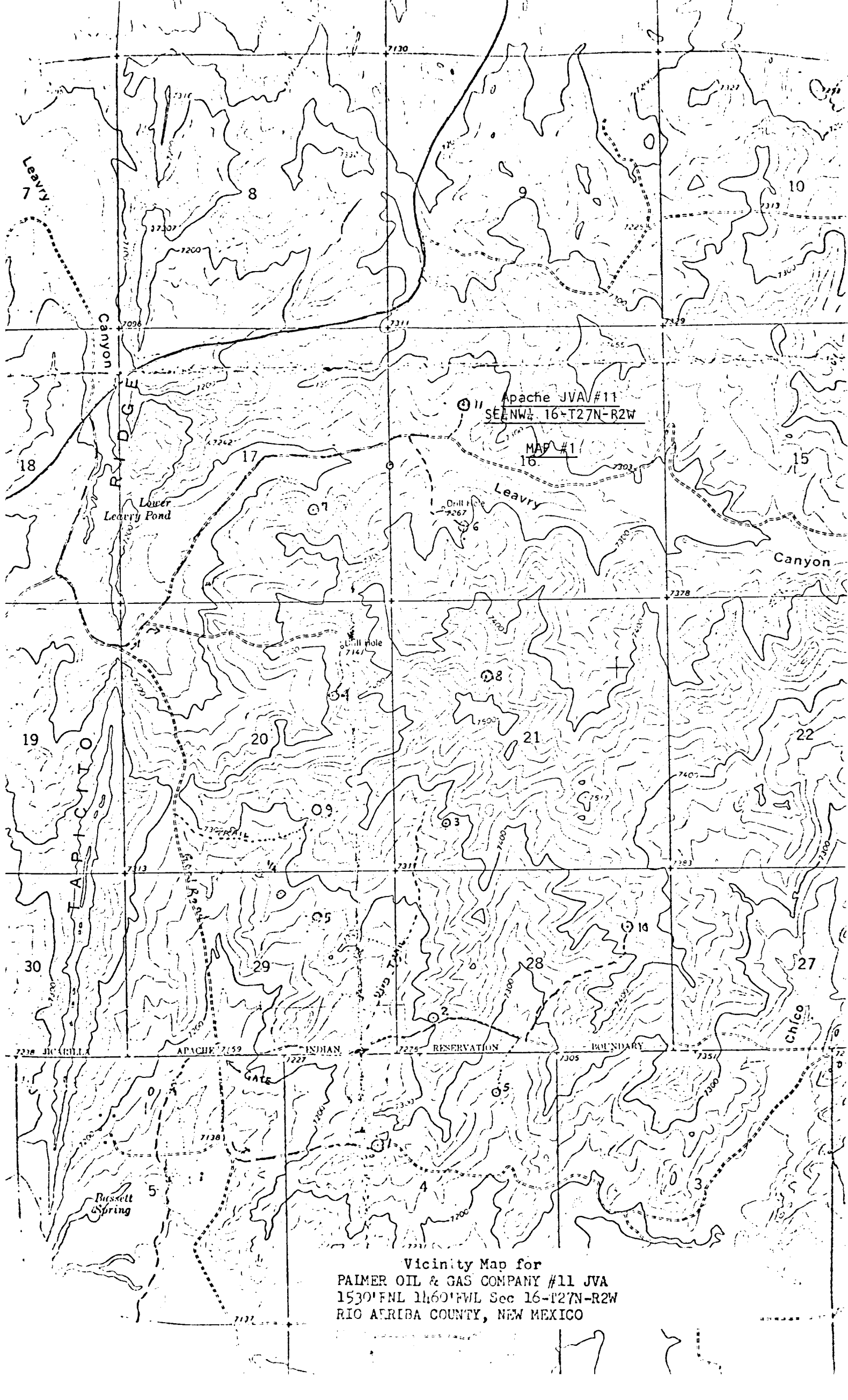
Township 27N, Range 2W, County Rio Arriba, State New Mexico

Island Township Plat



JVA 11  
T27N-R2W, Sec. 16  
SE $\frac{1}{4}$ NW $\frac{1}{4}$

Map #3



Vicinity Map for  
 PALMER OIL & GAS COMPANY #11 JVA  
 1530' FNL 1460' FWL Sec 16-T27N-R2W  
 RIO AERIBA COUNTY, NEW MEXICO

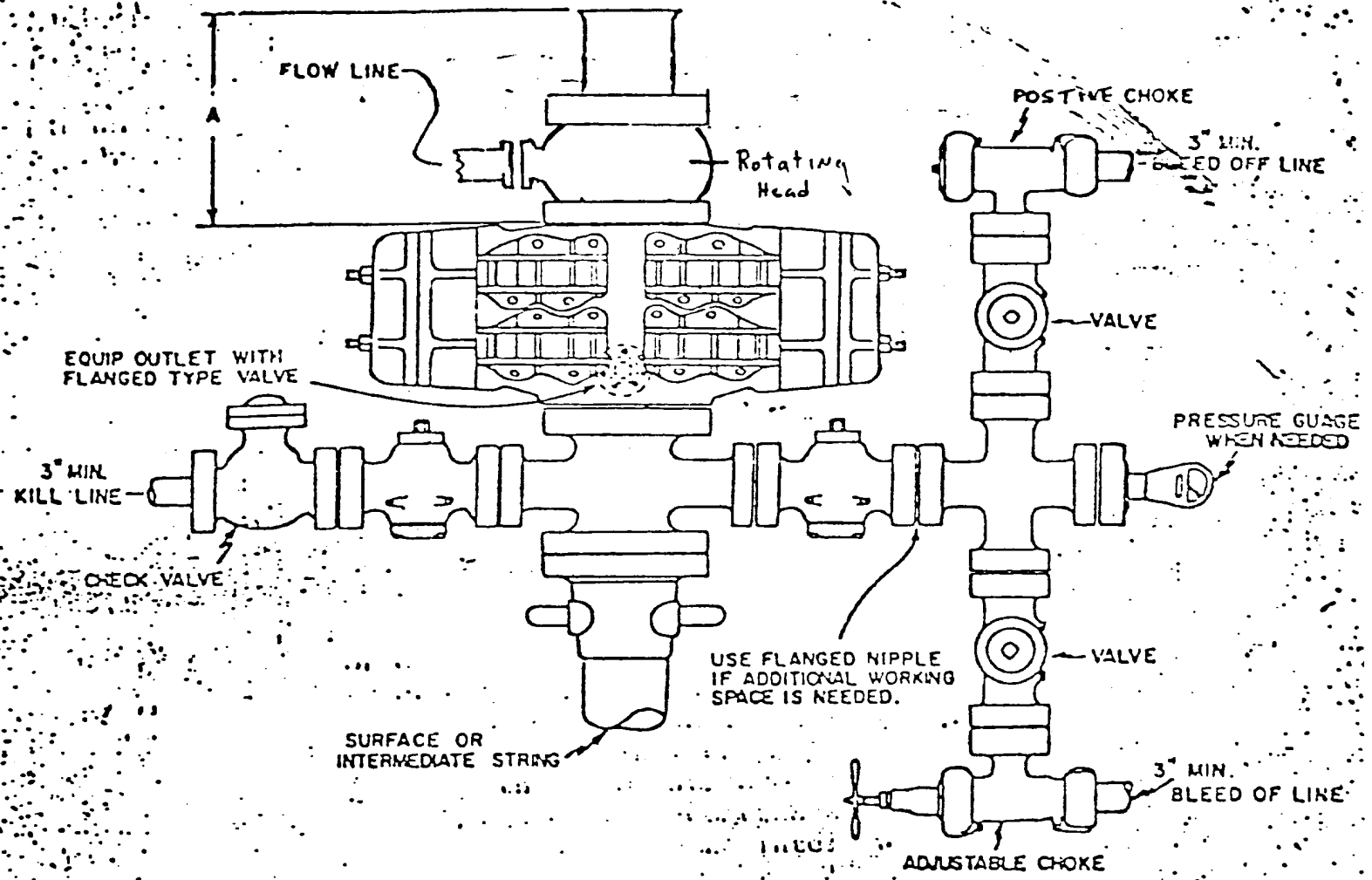
SEVEN POINT WELL CONTROL PLAN

PALMER OIL & GAS COMPANY  
Apache JVA #11  
SE $\frac{1}{4}$ NW $\frac{1}{4}$  Section 16-T27N-R2W  
Rio Arriba County, New Mexico

1. Surface Casing: 9-5/8" 36#/ft., Grade K-55, Short T&C, set at 300' and cemented with pump and plug method back to surface.
2. Casinghead Flange: 10" 900 S adapted to 1500 psig W. P. Larkin (or equivalent) casinghead with two 2" 1500 psi L.P. outlets.
3. 7" intermediate casing will be set to approximately 4,050' to case off any possible water from the Picture Cliff formation so as the remaining hole can be air drilled.
4. Blowout Preventor: A 10" 3000 psig W. P. Double gate hydraulic Shaffer BOP (or equivalent) with drill pipe rams and blind rams. All fill, kill, and choke lines will be minimum of 2" 2000 psi working pressure. The rams will be closed daily and checked for proper operation.
5. Auxiliary Equipment: a) Drill pipe floats will be allowed at contractor's discretion; b) Visual and manual monitoring of mud system will be maintained.
6. Anticipated bottom hole pressure is less than 1800 psi at 6350' or a gradient of .277 psi/ft.
7. Well will be drilled with water base mud system with 8.8 - 9.0 ppg weight 35-45 seconds viscosity to 4,050' - Air drilling from 4,050' to T.D.

PALMER OIL & GAS COMPANY

Robert D. Ballantyne  
Robert D. Ballantyne



## TWELVE POINT PLAN OF DEVELOPMENT

For Surface Use for Palmer Oil & Gas Company's  
Apache JVA #11  
SE $\frac{1}{4}$ NW $\frac{1}{4}$  Section 16-T27N-R2W  
Rio Arriba County, New Mexico

1. Existing roads including location of the exit from the main highway.  
Existing roads include the main road which runs along the southern boundary of the Jicarilla Apache Reservation, turn north on good gravel road two miles to a fork, to the J30 Road, turn north for 1/2 mile on access road to the location. See Appendix 1, Pages 92,93, and 94 of Environmental Study dated October 10, 1976, and maps #1 and #2.
2. Planned access road.  
See Topographic Map #1.  
Access road will be bladed and not more than 25' wide.
3. Location of wells.  
See map #3.
4. Location of tank batteries, production facilities and production gathering and service lines.  
If this well is productive, it would be gas; therefore, the facilities would be the wellhead, tanks for oil and condensate, 10' x 10' water pit if necessary, separator and gas line to the well. The tanks and separator would be set within 150' of the well and the gas line would run adjacent and parallel to roads.
5. Location and type of water supply.  
Water will be purchased from the Stevenson Water Hole at Bassett Springs.
6. Source of construction materials.  
All construction material such as gravel, sand timbers, etc. will be purchased and hauled to the location. No water, sand or gravel will be used from this land.
7. Methods for handling waste disposal.
  - 1) Cuttings will be buried 3' below the surface.
  - 2) Drilling fluids will be left in a fenced, open pit to evaporate.
  - 3) Produced oil or condensate (if any) will be stored in a tank.
  - 4) Portable toilet to be provided.
  - 5) Trash will be burned in burn pit.
  - 6) After pit area is sufficiently dry, cuttings will be pushed into pit and sub-soil will be placed on any remaining fluid and cuttings, then top soil, if any, will be placed over both pit and location area.
8. Ancillary facilities.  
No camps or airstrips will be used.
9. Wellsite layout.  
See Plat #3. Top soil, if any, will be stockpiled and reused. Pits will not be lined. The Blouie Pit will be constructed in such a manner so as to be long and narrow, extending in the direction of the gas or air flow from the Blouie line. Any trees on either side of this pit area within approximately 50', should be cleared so as not to cause a fire hazard if it is necessary to flare the gas. Any trees which must be destroyed will be counted by the BIA Forester and Palmer's representative and the Jicarilla Apache Tribe will be compensated for them.
10. Plans for restoration of surface.  
Upon completion of the well, all pits will be backfilled and top soil replaced and recontoured back to the original terrain. Pits will be back-filled as soon as they evaporate enough to permit such work. Should it be necessary to protect livestock or wild game, pits will be fenced and maintained until clean-up operations are commenced. Should oil accumulate on the pit, it will be removed and buried six feet deep or overhead flagging will be employed to protect wildlife.

11. Other information.

- 1) Topography - Drillsite and access low valley profile. See Pages 92, 93, and 94 of Environmental Study.
- 2) Vegetation - Sparse grass, sagebrush, pinion trees and juniper.
- 3) Land use - Land is used for grazing with no reservoir or water on this site. There are no known archaeological, cultural, or historical sites on this site. We plan to have the Cultural Resources Management of the NM State University do the archaeology work.

12. Lessee's or operator's representative.

Elledge Consulting and Production Company  
1701 Bloomfield Highway  
Farmington, New Mexico 87401

Harold W. Elledge, President

Office Phone (505) 327-1181

OR

Robert D. Ballantyne  
P. O. Box 2564  
Billings, Montana 59103

Office Phone (406) 248-3151  
Home Phone (406) 656-1304

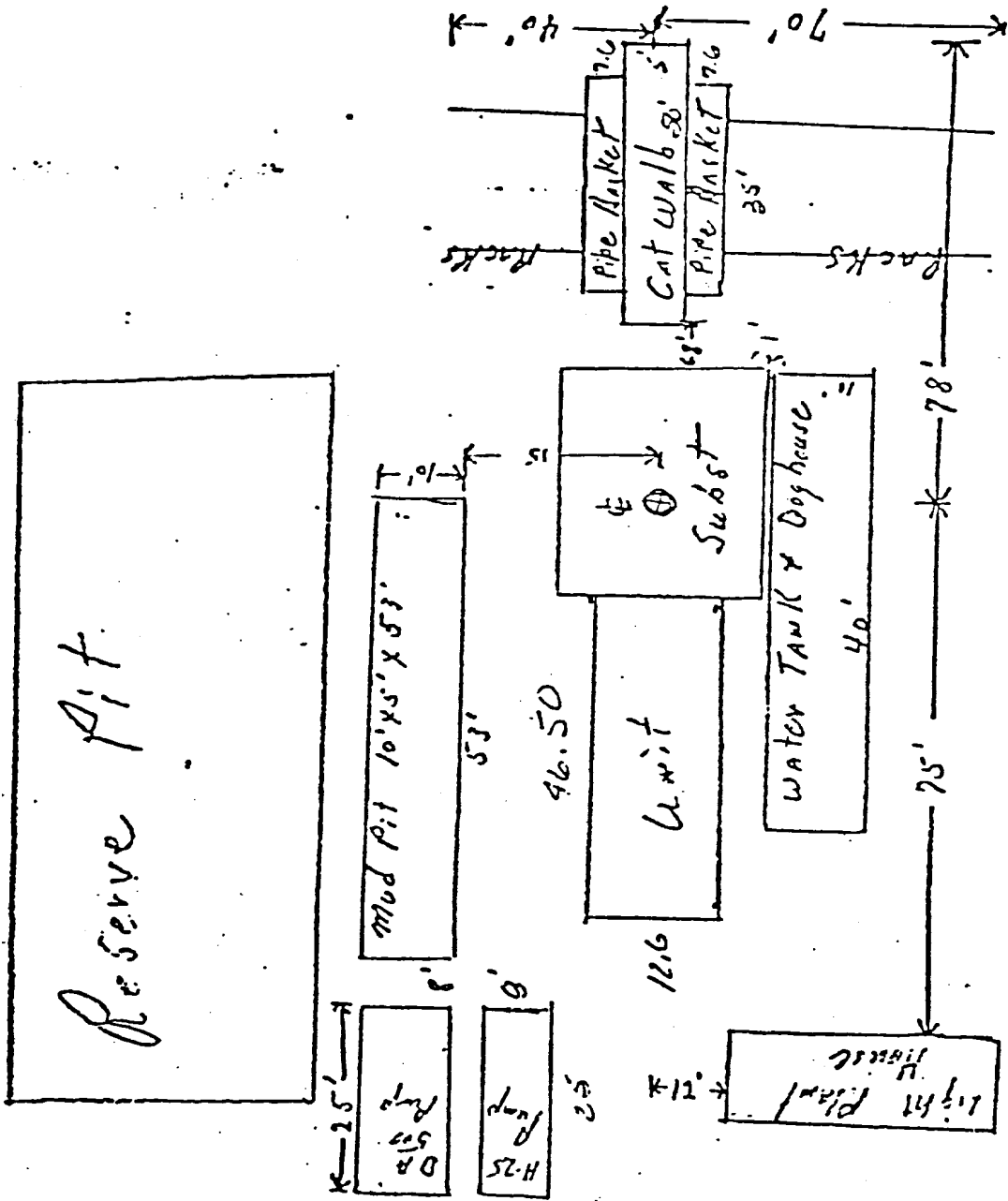
13. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Four Corners Drilling Co. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is proposed.

*Robert D Ballantyne*

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Robert D. Ballantyne  
Drilling Superintendent





1

Apache JVA #11  
SE¼NW¼ 16-T27N-R2W

PLAT #3

Proposed well 9A is to be located 2,050 feet from  
the north line and 800 feet from the west line of section 16

at an elevation of approximately 7,235 feet. The well will thus lie just north of the main Leavry Canyon road and access



Figure 33  
Looking North Across the Proposed 9A Location

to the location will be directly from that road. If this well proves productive, it will be connected to the existing gathering system by approximately 100 feet of pipeline running south to the flow line from well 8B along the Leavry Canyon road.

Proposed well 9B will lie 1,300 feet from the south line and 1,400 feet from the east line of section 16. This well will lie alongside an existing trail south of Leavry Canyon. This trail is usable over most of its length at

the present time but it will be necessary to rebuild the Leavry Canyon crossing before building the location. This trail continues on to the 8B location and will also be used as the access route for that well. If the 9B location proves productive, it will be connected to the 8B flow line which crosses the edge of this location.

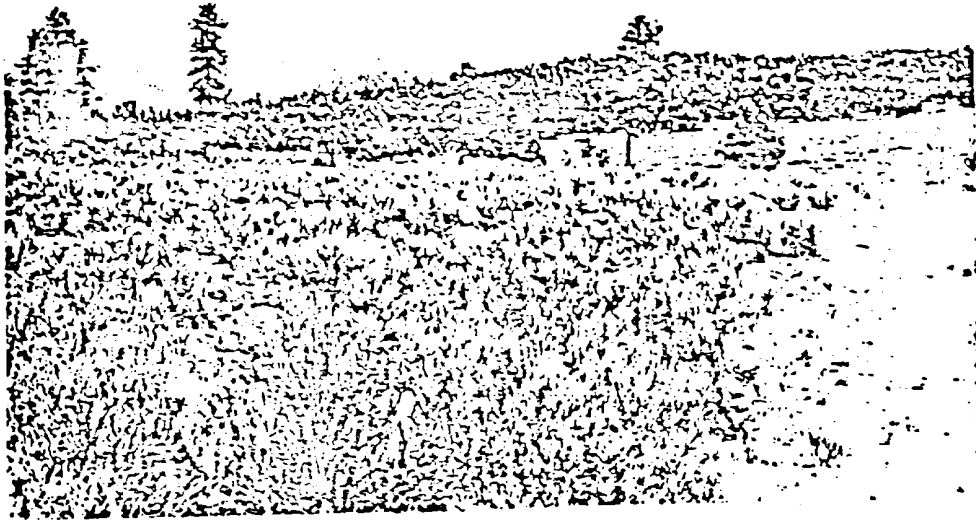


Figure 34  
Looking North Across the Proposed 9B Location

