24

SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

DEFARTMENT OF THE INTERIOR								5. LEASE DESIGNATION AND SERIAL NO.		
GEOLOGICAL SURVEY								Joint Vent	ure	
_	APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK							6. IF INDIAN, ALLOTTEE OF TRIBE NAME Jicarilla Apache		
1a.	TYPE OF WORK		DEEDENI		DLI	IC DAC	יי ער	7. UNIT AGREEMENT I	VAME	
	-	LL X	DEEPEN		PLU	JG BAC	.K L.I .			
-	TYPE OF WELL OIL	AS		BING		MULTIP	LE []	8. FARM OR LEASE NA	wt	
WELL WELL X OTHER ZONE ZONE								-		
2. NAME OF OPERATOR								Apache-JVA 9. WELL NO.		
_	Palmer Oil & Gas Company 3. ADDRESS OF OPERATOR									
								10. FIELD AND POOL, OR WILDCAT		
P. O. Box 2564, Billings, Montana 59103 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)										
At surface								Blanco-Mesaverde 2x V		
7 NW±NE± 850' FNL, 1490' FEL								AND SURVEY OR AREA		
At proposed prod. zone										
same								Sec. 29-T27		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE®								12. COUNTY OR PARISE	ł	
	• •	ly 25 miles No	th of Ojit					Rio Arriba	New Mexic	
15.	TOCATION TO MEADERT							F ACRES ASSIGNED		
PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)								N/320		
18. DISTANCE FROM PROPOSED LOCATIONS TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.				19. PROPOSED DEPTH 20.			20. ROTAL	OTABY OR CABLE TOOLS		
				6320'			Rot	Rotary		
21.	ELEVATIONS (Show who	ether DF, RT, GR, etc.)		<u> </u>		-		22. APPROX. DATE W	ORK WILL START	
7265' GR.								December 1, 1977		
23.			w	<u> </u>						
			PROPOSED CASI	HO AND						
	SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	OOT SETTING DEPTH		QUANTITY OF CEMENT				
	13-3/411	9-5/8"	36#			300 sacks 250 sacks				
	8-3/4"	7''	20#	_	40501					
	6 1 ''	4½'' (new)	10.5#		6320)'		600 sacks	•	
			Ĭ.	1				-	<u>-</u>	
1.	Palmer Oll	& Gas Company v	vill drill	a 6320	' Mesave	erde te	est in	the NWŁNEŁ of	Section	
	29-T27N-R2W	1.					\$ 100			
2.	Well to be drilled by rotary tools. Set 300' of 9-5/8" casing and cement to surface;									
	drill 8-3/4" hole to 4,050' and set 7" casing. Gas drill 4,05							0' to T.D. an	d run	
	4½" casing.									
3.	IES and Porosity Logs will be run at T.D. All potential zones will be analyzed from								yžed from	
,	surface to total depth, and if potentially commercial, $4\frac{1}{2}$ cas							ing or liner	will be	
	set, cemented and perforated.							The same		
4.										
5.	Survey plat attached.									
_	· 1									
6.	,							- 7		
7.	Gas is not dedicated.								- 1: NO	

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.

All distances must be from the outer boundaries of the Section. Operator Well No. Lease & Gas Company Palmer Oil <u>JVA</u> Township Range County Unit Letter Section 2W Rio Arriba 29 27N В Actual Footage Location of Well: North feet from the East feet from the Dedicated Acreage: Ground Level Elev. Producing Formation 7265 Mesaverde Blanco-Mesaverde 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? If answer is "yes," type of consolidation _ Yes 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 1490 best of my knowledge and belief. Robert D. Ballantyne Position Drilling Superintendent Company PALMER OIL & GAS COMPANY November 7, 1977 29 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 Registered Professional Engi and/or Land Sur Fred Certificate No.

1500

2000

1320 1650

1980

2310

2640

1000

500

3950

TWELVE POINT PLAN OF DEVELOPMENT

For Surface Use for Palmer Oil & Gas Company's
Apache JVA #5
NW½NE¼ Section 29 -T27N-R2W
Rio Arriba County, New Mexico

- 1. Existing roads including location of the exit from the main highway. Existing roads includes the main road which runs along the southern boundary of the Jicarilla Apache Reservation which is due South of this location and also is East of a road running North & South. See Appendix 1, Page 83 of Environmental Study dated October 10, 1976, and Plats No. 1 & 2 (Topographic Maps).
- Planned access road.
 See Topographic Maps attached, and refer to Page 83 of Environmental Study.
 Access road will be very minimum.
- Location of wells.
 See attached Plat No. 2.
- 4. Location of tank bateries, 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 produced water and condensate, if any, 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
- Location and type of water supply.
 No arrangement has been made at this time.
- 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.

parallel to roads per Page 83 of Environmental Study.

- 2) Drilling fluids will be left ina 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.
- Ancillary facilities.
 No camps or airstrips will be used.
- Wellsite layout.
 See Plat No. 3. Top soil, if any, will be stockfiled and reused. Pits will not be lined.

- 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 6' deep or overhead flagging will be employed to protect wildlife.
- 11. Other information.
 - Topography Drillsite and access low valley profile. See Page 83
 of Environmental Study.
 - 2) Vegetation Sparce grass, sagebrush.
 - 3) Land use Land is used for grazing with no reservoir or water on this site. There are no known archeological, cultural, or historical sites on this site.
- 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 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

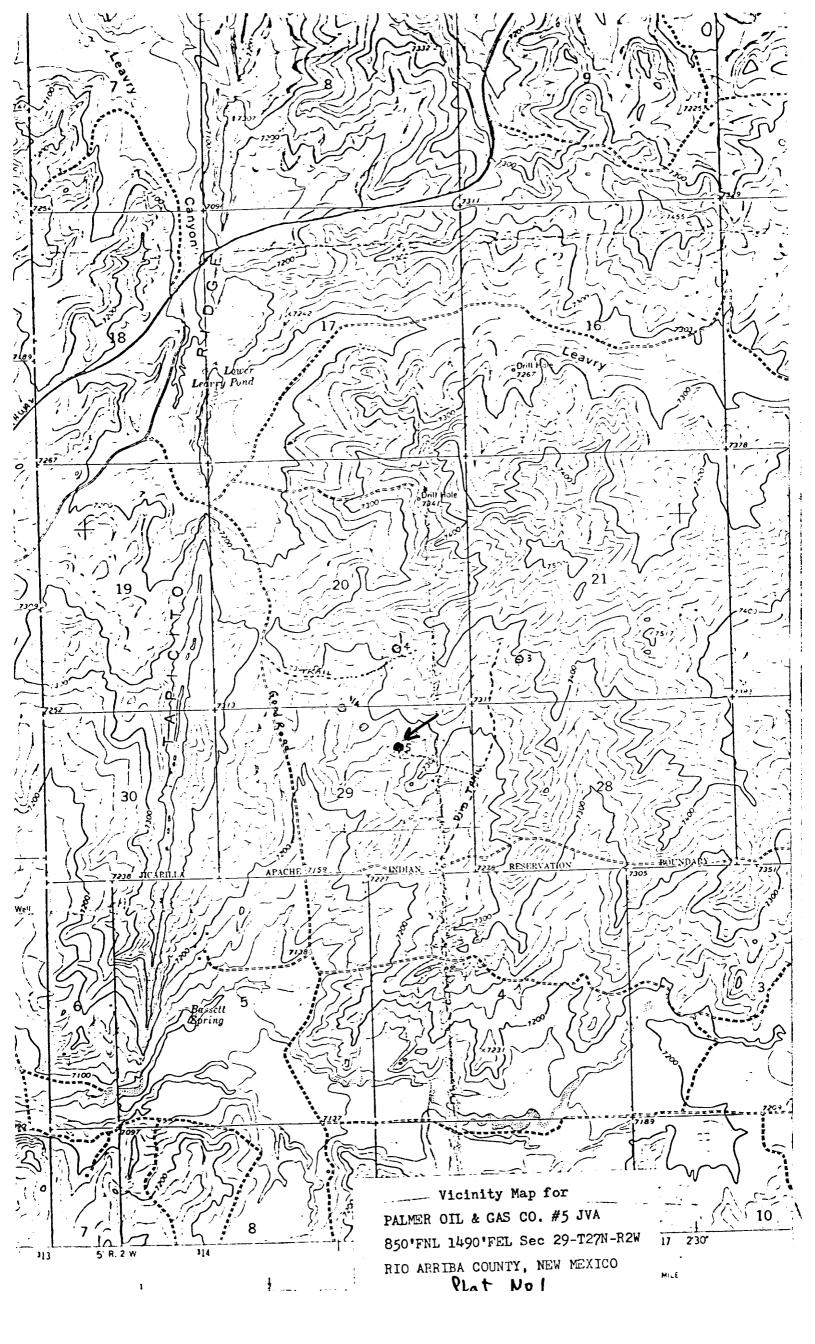
or well log information suggests that it would be more productive than one of the scheduled wells in the section.

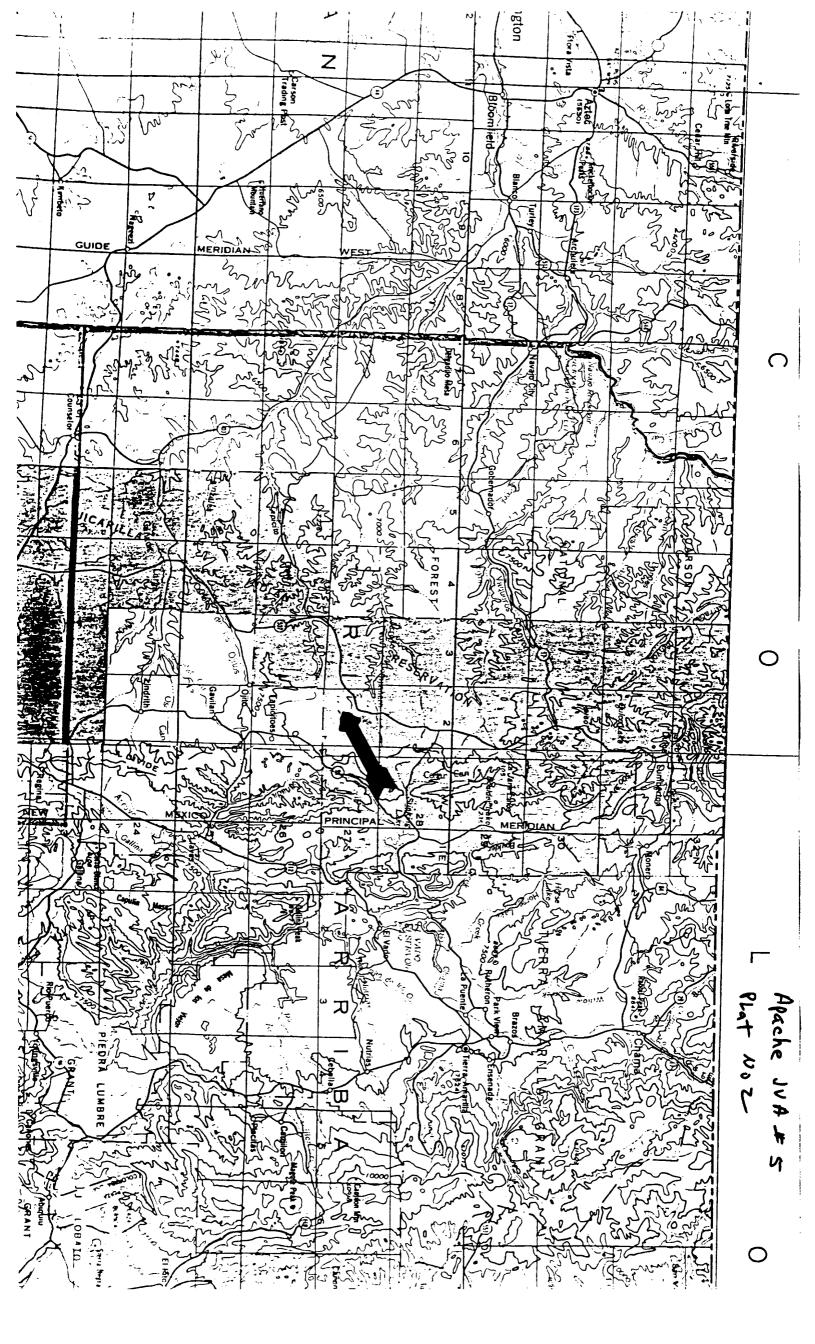
proposed well 4A is to be located 800 feet from the north line and 1,200 feet from the west line of section 29 at an elevation of approximately 7,190 feet. As this site is only about 100 feet from an existing road and on a trail, no new road construction will be necessary. Should this well prove productive a buried pipeline will be laid from it parallel and adjacent to the existing road northwestward for some 6,000 feet to connect with the flow line from well 2A.

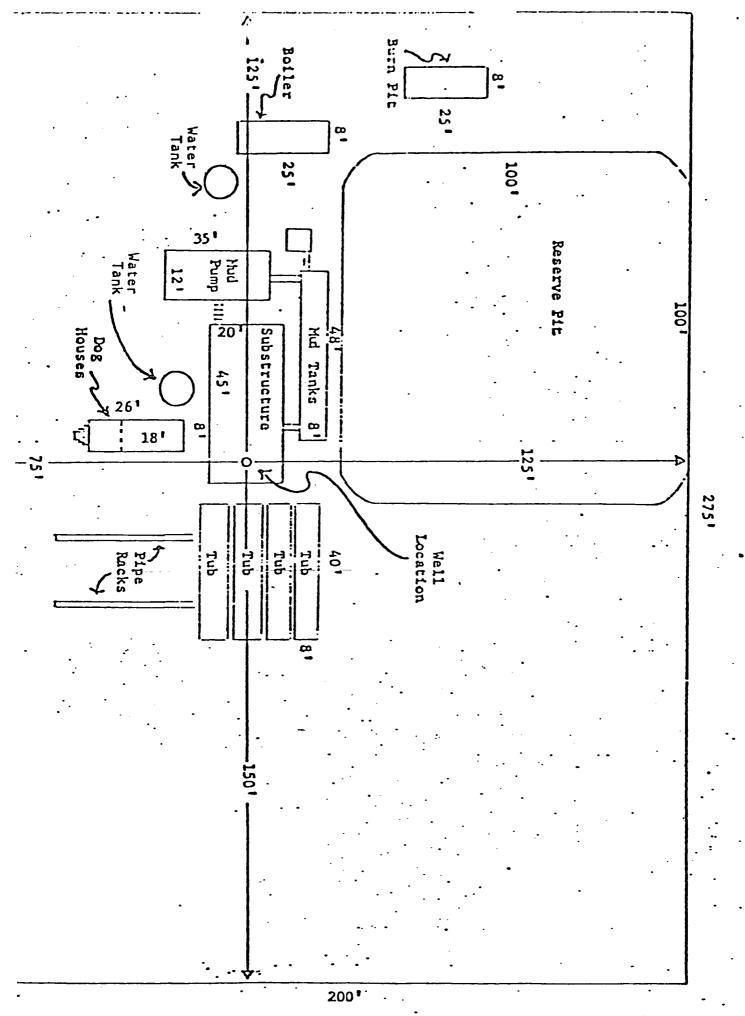


Figure 22
Looking North Across the Proposed 4A Location

Proposed well 4B will be located 1,000 feet from the south line and 800 feet from the east line of section 29.







SEVEN POINT WELL CONTROL PLAN

PALMER OIL & GAS COMPANY Apache-JVA #5 NWINEL Section 29-T27N-R2W Rio Arriba County, New Mexico

- Surface Casing: 9-5/8" 36#/ft., Grade K-55, Short T&C, set at 3001 and cemented with pump and plug method back to surface.
- Casinghead Flange: 9-5/8" X 10-3/4" top 1500 psig W. P. Larkin (or 2. equivalent) casinghead with two 211 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 gas drilled.
- Blowout Preventor: An 8" 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.
- Auxillary Equipment: a) Drill pipe floats will be allowed at contractor's discretion; b) Visual and manual monitoring of mud system will be maintained.
- Anticipated bottom hole pressure is less than 1800 psi at 63201 or a 6. 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' - Gas drilling from 4,050' to T.D.

PALMER OIL & GAS COMPANY

