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SUBMIT IN TRIPLICATE.

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

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UNITED STATES DEPARTMENT OF THE INTERIOR	, ,
GEOLOGICAL SURVEY	

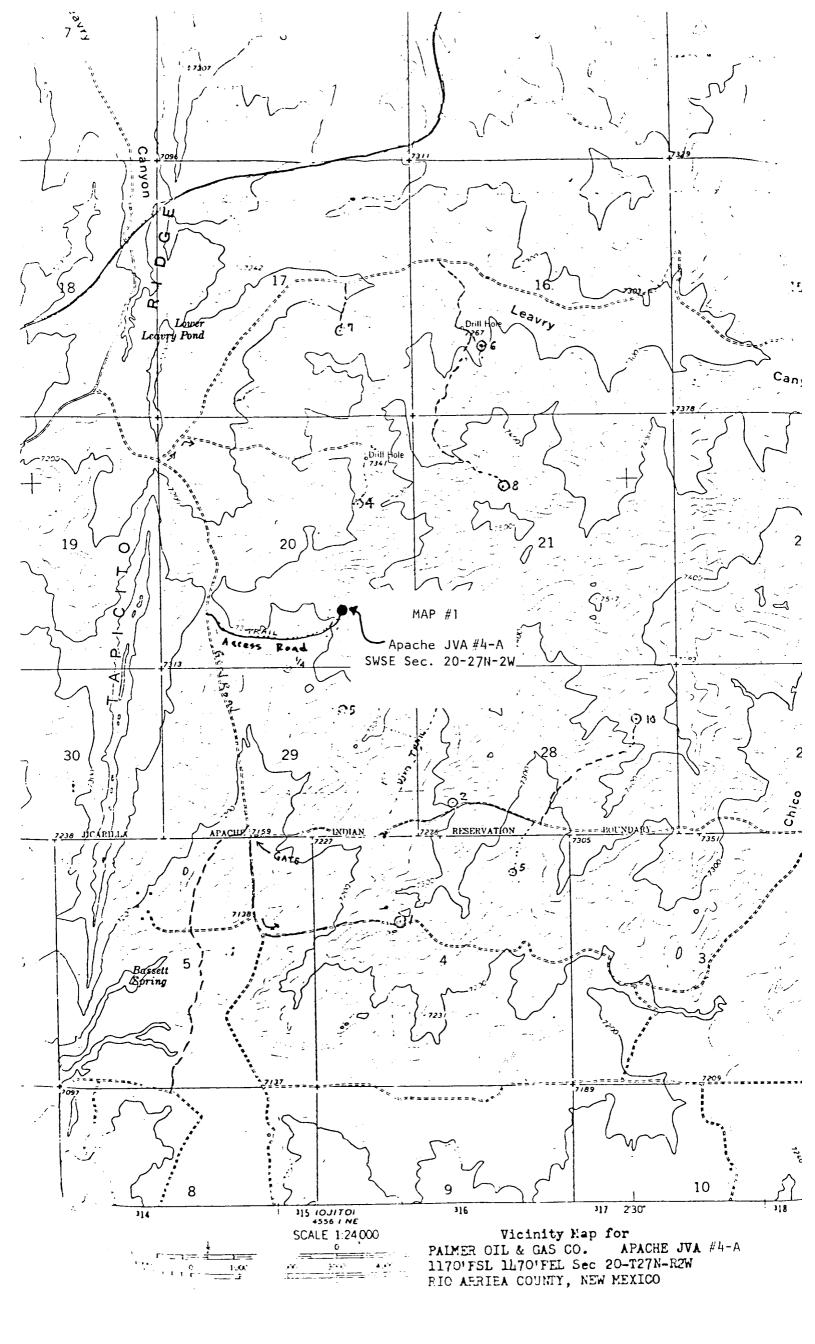
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5.	LEASE	DES	IG N A	T10	N A	ND	SERIA	L	NO.	
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	_	- GICAL SUITE			6. IF INDIAN, ALLOTTEE OR TRIBE NAME						
APPLICATION	I FOR PERMIT	TO DRILL, DEEP	EN, OR PLUG B	BACK .	Jicarilla Apache						
1a. TYPE OF WORK					7. UNIT AGREEMENT NAME						
DRI	LL X	DEEPEN 🗌	PLUG BA		: 1-1						
b. TYPE OF WELL		•	SINGLE MULTIP	LE	S. FARM OR LEASE NAME						
OIL GA	ELL X OTHER		ZONE ZONE								
2. NAME OF OPERATOR				2	Apache-JVA -						
Palmer Oil &	Gas Company										
3. ADDRESS OF OPERATOR					#4-A						
P. O. Box 256	64, Billings, M	T 59103			10. FIELD AND POOL, OR WILDCAT						
LOCATION OF WELL (R	eport location clearly and	in accordance with any	State requirements.*)		Blanco-Mesaverde r						
At surface	11701501 11701	FCI			11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA						
SWLSEL At proposed prod. zon	1170'FSL-1470'	FEL /									
same					SW1SE1 Sec. 20-27N-2W						
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST OFFI	CE*		12. COUNTY OR PARISH 13. STATE						
Approx 27 m	iles North of O	iito		1	Rio Arriba New Mexi						
15. DISTANCE FROM PROPO	SED*	16. 1	NO. OF ACRES IN LEASE		OF ACRES ASSIGNED THIS WELL						
LOCATION TO NEAREST PROPERTY OR LEASE I	T Line, FT.	1170'	Joint Venture	1 26	E-320						
(Also to nearest drlg 18. DISTANCE FROM PROP	g. unit line, if any)	1	PROPOSED DEPTH	20. ROTA	ARY OR CABLE TOOLS						
TO NEAREST WELL, D	RILLING, COMPLETED,	1	6350'	Ro	Rotary						
OR APPLIED FOR, ON TH					22. APPROX. DATE WORK WILL START*						
21. ELEVATIONS (Show who 7319 GR.	etner Dr. RI, GR. etc.)				Oct. 15, 1979						
23.		PROPOSED CASING AN	ND CEMENTING PROGR	AM .	· · · · · · · · · · · · · · · · · · ·						
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#	4000'	_	250 sacks						
6-1/4"	4-1/2"(new)	10.5#	6350'	` -	600 sacks						
- ·, ·		1	1	i							
T27N-R2W. 2. Well to be drill 8-3/	drilled by rot 4" hole to 4000	cary tools. Se O' and set 7" c	t 300' of 9-5/8' asing. Air dri	casin	the $SW_{\pm}^{\perp}SE_{\pm}^{\perp}$ of Section 20 and cement to surface; of to T.D. and run $4\frac{1}{2}$!						
2 IEC J Do	rosity Logs will total depth, a	ll be run at T. and if potentia	D. All potentialIly commercial	al zone 4½" ca	es will be analyzed from asing or liner will be se						
comented a	nd perforated.				· 한 역할 때 #						
4. After perf	orating, the pi	roductive zones	will be fractu	red, if	necessary.						
5. Survey pla	t attached.			-							
6. Spacing un	it will be $E^{\frac{1}{2}}$	of Section 20.									
7. Gas is not	dedicated.				- -						
, <u></u>											
IN ABOVE SPACE DESCRIB zone. If proposal is to preventer program, if an 24.	drill or deepen direction	proposal is to deepen or nally, give pertinent data	plug back, give data on to on subsurface locations a	present pro	eductive zone and proposed new productive ed and true vertical depths. Give blowout						
SIGNED Robert	D. Ballantyne	TITLE	Drilling Superi	ntender	nt DATE August 21, 197						
(This space for Fed	eral or State office use)										
				٠.							
PERMIT NO			APPROVAL DATE								

AUG 2 7 1979 OIL CON. COM. DIST. 3

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

		All distances	must be from the	e outer bour	daries of tr	e Section.		- I w-11
Operator			Leas					Well No.
PALMER OI	& GAS COMPA			PACHE JY		<u> </u>		4-A
Unit Letter	Section	Township	};	Range		County		
0	20	27N		2W		Rio A	rriba	
Actual Footage Loc			<i>-</i> .		-		7 71 - 4	
1170		South		<u> 170</u>	feet	from the	East	line Dedicated Acreage:
Ground Level Elev.	Producing Fo	_	Pool	D.1	M			220
7319	l	averde		Blanco-				
2. If more the interest as	nd royalty).	dedicated to	the well, out	line each	and iden	tify the o	wnership t	hereof (both as to working
If answer this form in No allows	is "no;" list the	unitization, for answer is "yes owners and tr ned to the well	rce-pooling. e ;' type of con ract description until all inte	tc? solidation ons which	have act	ually bee	en consolid	ated. (Use reverse side of munitization, approved by the Commis-
sion.	ling, or otherwise	e) or until a not	-standard uni	t, elimina	Ting such	- Interest		CERTIFICATION
		Sec		 			Name Robert Position Drillin Company	certify that the information con- erein is true and complete to the my knowledge and belief. D. Ballantyne g. Superintendent Oil & Gas Company
•	GIL C	CN. COM. DIST. 3	20	1170'	<u> 11.70'</u>		shown or notes of under my is true knowled. Date Surve Octob Registered and/at La	26, 2978
0 330 660	90 1320 1650	1980 2310 2640	2000	1500	1000 8	00 0	3950	ALIA.



TWELVE POINT PLAN OF DEVELOPMENT

For Surface Use with Palmer Oil & Gas Company's
Apache JVA #4-A
SWLSEL Section 20-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 and a quarter miles to a fork, turn east on access road and travel for a half mile to the location. See Appendix 1, Pages 85, 86, and 87 of Environmental Study dated October 10, 1976, and Maps #1 and #2.
- Planned access road.
 See Topographic Map #1.
 Access road is bladed.
- 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.

- 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 three feet 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.
- Ancillary facilities.
 No camps or airstrips will be used.
- 9. Wellsite layout.
 See Plat #3. This location was approved as the JVA #4 well. The location was changed for geological reasons. The location was built as approved by the Government Agency September 25, 1978.

- 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 backfilled 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.
 - Topography Drillsite and access low valley profile. See Pages 85, 86, and 87 of Environmental Study.

2) Vegetation - Sparse grass and sagebrush.

- 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. An archaeological survey clearance was done September 25, 1978.
- 12. Lessee's or operator's representative.

Elledge Consulting and Production Company 1701 Bloomfield Highway Farmington, New Mexico 84701

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.

PALMER OIL & GAS COMPANY

By: Robert D. Ballantyne
Drilling Superintendent

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SEVEN POINT WELL CONTROL PLAN

PALMER OIL & GAS COMPANY
Apache JVA # 4-A
SW\(\frac{1}{4}\) Section 20-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.
- Casinghead Flange: 10" 900 S adapted to 1500 psig W. P. Larkin (or equivalent) casinghead with two 2" 1500 psi L. P. outlets.
- 7" intermediate casing will be set to approximately 4000' 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.
- 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 4000' Air drilling from 4000 to T.D.

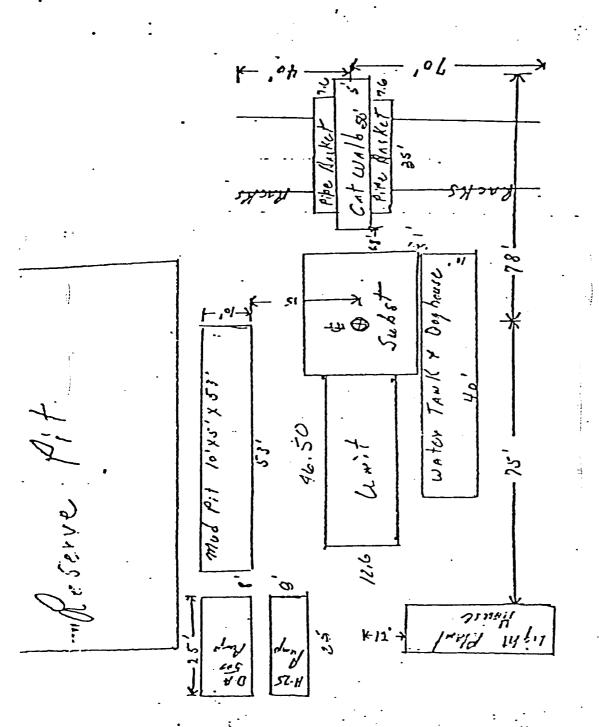
PALMER OIL & GAS COMPANY

Robert D. Ballantyne
Drilling Superintendent

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P. O. BOX 1067
702 E. BROADWAY
FARMINGTON, NEW MEXICO B7401

TELEPHONE: (505) 327-1122



PLAT #3

Apache JVA #4-Λ SWSE Sec. 20-27N-2V

a non foot

Proposed well 5A is to be located 1,160 feet from the south line and 1,025 feet from the west line of section 20

at an elevation of approximately 7,290 feet. This well will lie just off an existing road so only minimal construction



Figure 25
Looking North Across the Proposed 5A Location

will be necessary to gain access to the well. Should this well prove productive, it will be connected to the flow line from well 4A which will lie at the edge of this location.

Proposed well 5B will lie 1,550 feet from the north line and 850 feet from the west line of section 20 at an elevation of about 7,175 feet. This location will lie just off an existing road so essentially no new road construction will be necessary to gain access to the well. Should this well prove productive it will be connected to the flow line from the 4A well which will cross the edge of this location.

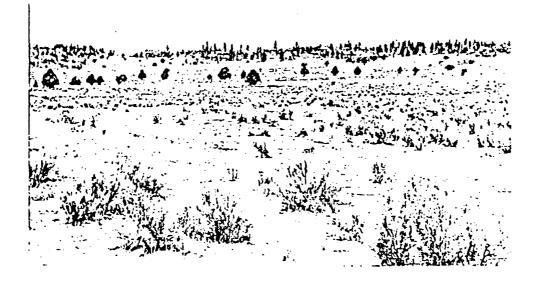


Figure 26
Looking North Across the Proposed 5B Location