SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

20 -039 -22246 5. LEASE DESIGNATION AND SERIAL NO.

UNITED STATES DEPARTMENT OF THE INTERIOR

,	GEOLOG	Joint Venture						
APPLICATION	6. IF INDIAN, ALLOTTEE OR TRIBE NAME							
	TOR TERRITOR	_		· ·		Jicarilla Apache		
IA. TYPE OF WORK DRIL	L 🗆	DEEPEN [PLUG BAC	.K ⊔			
b. TYPE OF WELL	. –			GLE MULTIP	LE	8. FARM OR LEASE NAME		
W ELL	LL X OTHER		201	YEZONE		Apache-JVA		
2. NAME OF OPERATOR	1 a C Campany	9. WELL NO.						
Palmer UI 3. ADDRESS OF OPERATOR	1 & Gas Company	No. 11						
5 0 C	2564, Billings	10. FIELD AND POOL, OR WILDCAT						
P. U. DOX 4. LOCATION OF WELL (Re)	port location clearly and i	Blanco-Mesaverde ex F						
A + chrisce	FNL, 1650' FEL	11. SEC., T., E., M., OR BLKAND SURVEY OR AREA						
		- SW4NE4 Sec. 16-27N-2W						
At proposed prod. zone	came					12. COUNTY OR PARISH 13. STATE		
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	ST TOWN OR POS	T OFFICE	!*		- T		
Approximat	ely 27 miles No	rth of Oji	to	. OF ACRES IN LEASE	17. NO.	Rio Arriba New Mexico		
15. DISTANCE FROM PROPOS LOCATION TO NEAREST	SED*		10.		TO 7	THIS WELL		
PROPERTY OR LEASE LI	(NE, FT. . unit line, if any)	1650'	""	int Venture		ABY OR CABLE TOOLS		
18. DISTANCE FROM PROPO	SED LOCATION* HILLING, COMPLETED,		19. PROPOSED DELTE			Rotary		
OR APPLIED FOR, ON THE	S LEASE, FT.			6350'		22. APPROX. DATE WORK WILL START*		
21. ELEVATIONS (Show whe						December 15, 1979		
7366'	GR			CEMENTING PROGR	AM	·		
23.	P					QUANTITY OF CEMENT		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER I	FOOT	SETTING DEPTH	-	00 sacks		
12-1/4"	9-5/8" new_	36#		3001		50 sacks		
8-3/4"	7 ¹¹ new	20#		4050' 6350'		00 sacks		
6-1/4"	4-1/2" new	10.5#		6350		700 Saoks		
T27N-R2W. Well to be d drill 8-3/4" casing. IES and Poro surface to t set, cemente After perfor Survey plats Spacing unit Gas is not de	rilled by rotary hole to 4050' sity logs will otal depth, and d and perforate ating, the product attached. will be E½ of ledicated.	y tools. and set 7'' be run at if potent d. uctive zon Section 16 proposal is to deally, give perting	Set 3 casi T.D. ially nes wi	ng. Air drill All potential commerical, 4 11 be fracture	casing 4,050 zones 12'' cas ed, if	roductive zone and proposed new productive pred and true vertical depths. Give his wout		
SIGNED Rober	t D. Ballantyn	<u></u>	TITLE	Drilling Super	intende	DATE		
(This space for Fed	deral or State office use)					•		
PERMIT NO APPROVAL DATE								
· 						DATE		
APPROVED BY			TITLE					

13mh

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION .

STATE OF NEW MEXICO

P. O. BOX 2088

Form C-102 kevised 10-1-78

			Lease	underlie of the		Well Nc.
alor	T A OAC OOMDA	NV	APACHE	JVA		
	L & GAS COMPA	Township	Range		County	
Letter	16	27N	2W		Rio Arriba	
il Footoge Lo	cation of Well:				mm the Eas	line
650	feet from the		ine and 1650	feet f	rom the Eas	Dedicated Acreage:
nd Level Elev		ormation	Pool		eut	320 - Acres
366	Mes	averde	ject well by color-	anco-Mesav	verde CxI	the plat below.
2. If more to interest a	than one lease i and royalty).	s dedicated to t	he well, outline es	ach and ident	ify the ownership	thereof (both as to working of all owners been consoli-
Yes If answer	No If	answer is "yes," e owners and tra	type of consolida	ich have act	menlidated (by co	ommunitization, unitization, en approved by the Commis-
sion.	l l	1	1			CERTIFICATION
	} 		16501		tained best o	by certify that the information con- herein is true and complete to the f my knowledge and belief.
	1		i		Name	t D Ballantipo
. 	 	Sec.		 1650'	Name Rober Position Drill Compan Palme	t D. Ballantyne ing Superintendent
		Sec.	16	1650'	Name Rober Position Drill Compan Palme Date Nove	t D. Ballantyne ing Superintendent y r Oil & Gas Company
		Sec.	16	1650'	Name Rober Position Drill Compan Palme Date Nove	ing Superintendent or Oil & Gas Company mber 2, 1979 eby certify that the well location on this plat was platted from field and actual surveys made by me of my supervision, and that the same up and correct to the best of my

THIRTEEN POINT PLAN OF DEVELOPMENT

For Surface Use for Palmer Oil & Gas Company's Apache JVA #11 SW4NE4 Section 16-T27N-R2W Rio Arriba County, New Mexico

- 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.
- Location of wells. See map #3.
- 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.
- 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.
- Methods for handling waste disposal.
 - 1) Cuttings will be buried 3' below the surface.
 - Drilling fluids will be left in a fenced, opern pit to evaporate.
 - Produced oil or condensate (if any) will be stored in a tank.
 - Portable toilet to be provided.
 - Trash will be burned in burn pit.
 - 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.
- Anciliary 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 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 nit it will be removed and buried six feet deep or overhead flagging will

11. Other information.

1) Topography - Drillsite and access low valley profile. See Pages 92, 93, and 94 of Environmental Study.

Vegetation - Sparse grass, sagebrush, pinion trees and juniper.

- 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.
- Lessee's or operator's representative. 12.

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

Harold W. Elledge, President

Office Phone (505) 327-1181

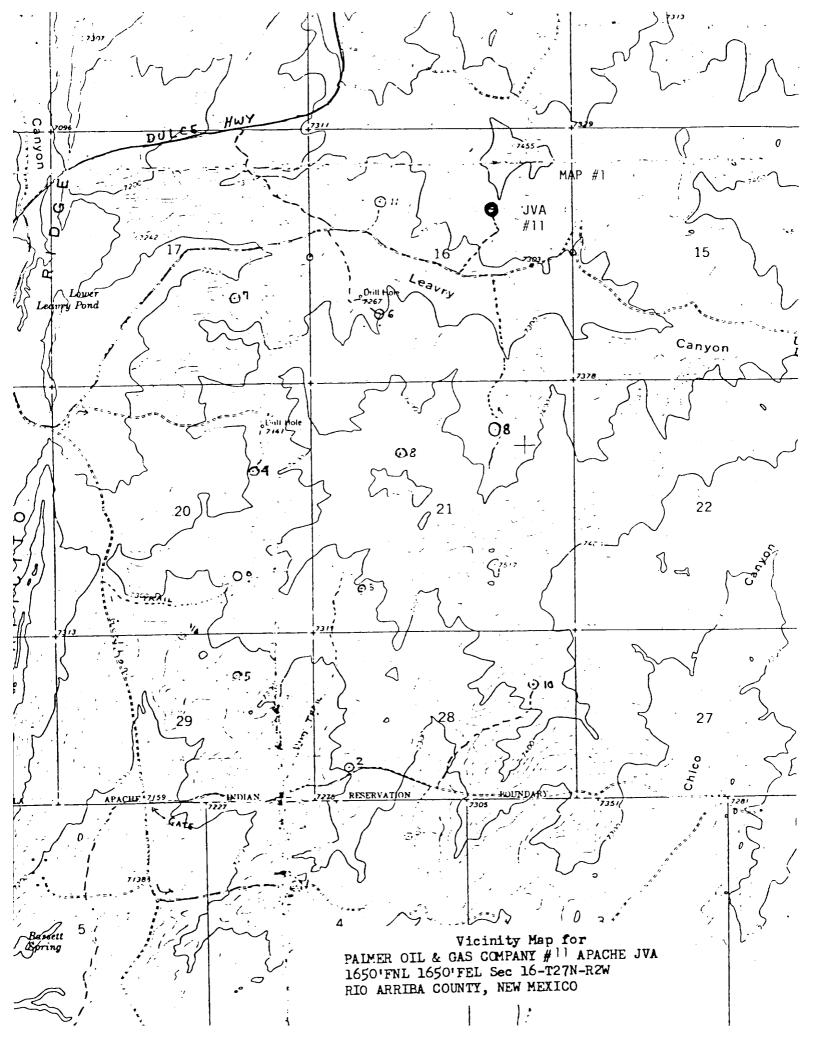
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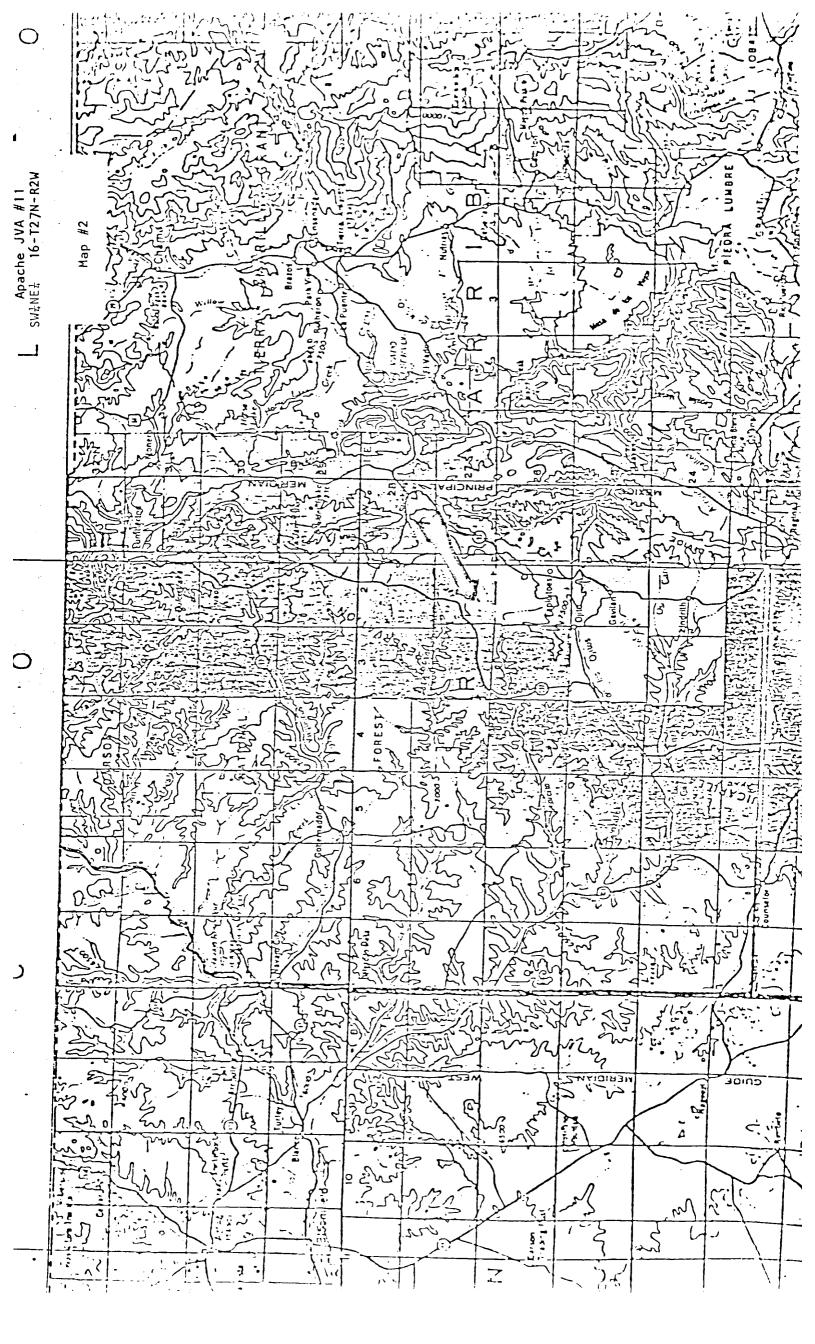
Robert D. Ballantyne P. O. Box 2564 Billings, Montana 59103 Office Phone (406) 248-3151 Home Phone (406) 656-1304

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 13. 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 approved.

Robert D Ballantyno

Robert D. Ballantyne Drilling Superintendent





Hillings Mile Mint Bellings, Mintens New Mexico

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Island Township Plat					•	. , ,	
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JVA 11							
T27N-R2W, Sec	. 16						
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Map #3		 		. 	· · · · · · · · · · · · · · · · · · ·		
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Rio Arriba

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

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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

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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.

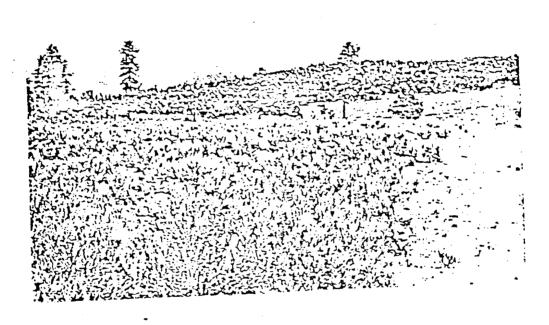
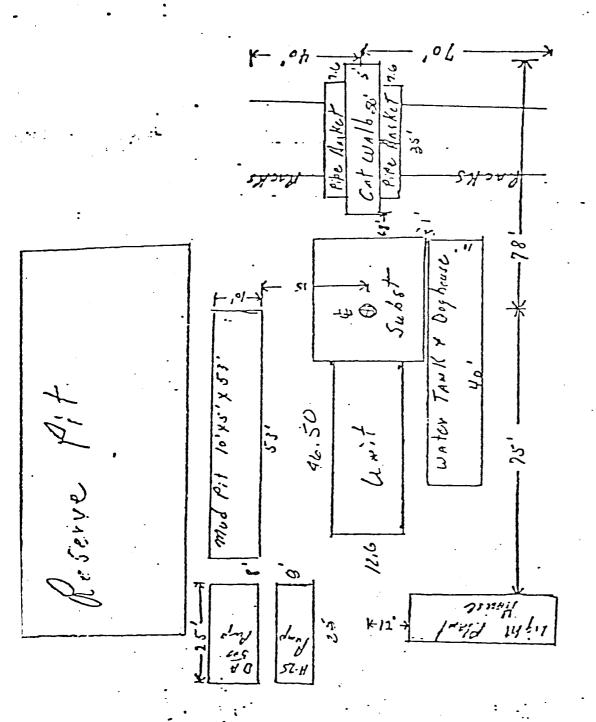


Figure 34
Looking North Across the Proposed 9B Location

TELEPHONE: (505) 327-1122



Apache JVA #11 SW±NE± 16-T27N-R2W

PLAT #3

EVEN POINT WELL CONTROL PLAN

PALMER OIL & GAS COMPANY Apache JVA #11 SWANEA 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.
- 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 4,050' to case off any possible water from the Picture Cliff formation so as the remaining hole can be air drilled.
- 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 operaion.
- 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

