1.

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APPROVED BY \_

CONDITIONS OF APPROVAL, IF ANY:

## SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

**UNITED STATES** DEPARTMENT OF THE INTERIOR

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5.	LEAS	E	ESI	GNAT	NOI	AND	SER	IAL	NC	<u>.                                    </u>

DATE\_

	GEOLO	OGICAL SURV	EY ———				Joint Ventu	<u>re Agreement</u>			
APPLICATION	N FOR PERMIT	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache									
1a. TYPE OF WORK  DR  b. TYPE OF WELL	ILL 🛚	DEEPEN		PL	UG BAG	CK 🗆	7. UNIT AGREEMENT N				
	AS X OTHER		BING ZONI		MULTIP ZONE	LE	S. FARM OR LEASE NAI	(E			
2. NAME OF OPERATOR							Apache-JVA	·			
	r Oil & Gas Con	npany					9. WELL NO.				
3. ADDRESS OF OPERATOR	n oc/b B:11	li-ss Monts	na E01	<b>Λ</b> 2		ē	10. FIELD AND POOL, O	R WILDCAT			
P. U.	Box 2564, Bill	d in accordance wi	th any Sta	te requirem	ents.*)		Blanco-Mesa				
At surface			11. SEC., T., R., M., OR	BLK.							
NE4NWi			AND SURVEY OR AS								
At proposed prod. sor	same						Sec. 28-T27				
14. DISTANCE IN MILES	AND DIRECTION FROM NE	AREST TOWN OR POS	T OFFICE*				12. COUNTY OR PARISH				
Approxi	mately 25 miles	North of C	jito_				Rio Arriba New Mexico				
15. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE I (Also to nearest dr)	OSED* T Line, ft.	790'	16. NO.	OF ACRES IN	LEASE		OF ACRES ASSIGNED This well				
18. DISTANCE FROM PROF			19. PROPOSED DEPTH 2			20. ROTA	20. ROTARY OR CABLE TOOLS				
OR APPLIED POR, ON TH	IS LEASE, PT.		<u> </u>	52751		Ro	Rotary				
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)						22. APPROX. DATE WO				
00							August 15	, 19//			
23.		PROPOSED CASI	NG AND	CEMENTIN	G PROGRA	AM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	FOOT SETTING DEPTH			QUANTITY OF CEMENT					
13-3/4"	9-5/8"	36#			00'	·	00 sacks				
8-3/4"	7''	20#		4,00			_sacks				
6-1/4"	6-1/4" 4-1/2" 10.5			6,2	75'	600	sacks				
Section 28-T2 Well to be dr drill 8-3/4" 4-1/2" casing IES and Poros surface to to set, cemented After perfora Survey plat w	illed by rotary hole to 4,000' ity Logs will I tal depth, and and perforated ting, the prodiil be forwards  E PROPOSED PROGRAM: If drill or deepen direction	y tools. Se and set 7" be run at T. if potentia d. uctive zones ed.	casing D. A ally co	of 9-jg. Gas  Il pote  ommercia  be frace	5/8" cadrill zal, 4-1	asing a 4,000' cones w	nd cement to s to T.D. and r ill be analyze sing or nar cessa 1 13 OIL CON OIL DIS	urface; un d from will be			
signed Robert	t D Ballo D. Ballantyne	intimo	Dr	illing	Superin	ntenden	t DATE 7/11/	77			
(This space for Fede	eral or State office use)		^	PPROVAL DAT	E	<del></del>					

TITLE \_

## NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section.											
Operator				Lease					Well No.		
-	Palmer Oil Company		Apache JVA					2			
Unit Letter			Range County								
ا ا	28	27N	1	2W	Ric	A.	rriba				
Actual Footage Loca				<del></del>							
		South line and		850feet	from the		West		line		
Ground Level Elev: Producing Formation								Dedicated Acreage:			
7323	Mesave	В	lanco-Mesave	rde			215.52 Acres				
1 O elina th	e ecreene dedice	ted to the subject w	ell by	colored pencil	or hachu	ire i	narks on t	narks on the plat below.			
2. If more th interest an	nan one lease is	dedicated to the wel	ll, outl	ine each and ide	entify th	ie o	wnership t	thereo	(both as to working		
dated by c	ommunitization, u	nitization, force-pool	ing. et	c?							
this form in	f necessary.) ole will be assign	owners and tract desc ed to the well until al or until a non-standar	l inter	ests have been	consoli	date	d (by con	nmunit	ization, unitization,		
								CER	TIFICATION		
		4					1 hereby	certify	that the Information con-		
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		Ī		1			L. C.	Campl			
		1	•				Position Land M	lanag	er		
		!	<del>-</del> -	-1			Company Palmer	011	& Gas Company		
				•			Date				
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		and Land Sorreyor						Exact.			
		Fred B. KETT Certificate No.					STE OFFICE				
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## SEVEN POINT WELL CONTROL PLAN

PALMER OIL & GAS COMPANY
Apache-JVA 2
NE\(\frac{1}{4}\)NU\(\frac{1}{4}\)SW\(\frac{1}{4}\)SW\(\frac{1}{4}\)SOUTH Section 28-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: 9-5/8" X 10-3/4" top 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 4,000' to case off any possible water from the Picture Cliff formation so as the remaining hole can be gas drilled.
- 4. 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.
- 6. Anticipated bottom hole pressure is less than 1800 psi at 6275' 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 4,000' Gas drilling from 4,000' to T.D.

PALMER OIL & GAS COMPANY

y: Robert D. Ballantyne
Robert D. Ballantyne

## TWELVE POINT PLAN OF DEVELOPMENT

For Surface Use for Palmer Oil & Gas Company's Apache JVA #2

NELNWLSWL Section 28-T27N-R2W

Rio Arriba County, New Mex.

- 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. See Appendix I, Pages 89 & 90 of Environmental Study dated October 10, 1976, and Plats No. 1 & 2 (Topographic Maps).
- Planned access road.

See Topographic Maps attached, and refer to Pages 89  $\epsilon$  90 of Environmental Study. Access road will be very minimum.

- Location of wells.
   See attached Plat No. 2.
- 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 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 parallel to roads per Pages 89 & 90 of Environmental Study.

- Location and type of water supply.
   No arrangement for water 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.
  - 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 No. 3. Top soil, if any, will be stockpiled 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 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 6' deep or overhead flagging will be employed to protect wildlife.
- 11. Other Information.
  - 1) Topography Drillsite and access low valley profile. See Pages 89 & 90 of Environmental Study.
  - 2) Vegetation Sparse 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 Cardinal Drilling Company, and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is proposed.

Date: July 11, 1977

Robert D. Ballantine

Proposed well 7A is to be located 800 feet from the south line and 2,250 feet from the west line of section 28 at an elevation of approximately 7,280 feet. This location is along an existing trail several hundred feet north of the main road along the southern boundary of the Jicarilla Apache



Figure 29
Looking North Across the Proposed 7A Location

Reservation. It will be necessary to improve the trail somewhat as well as to repair parts of the south boundary road before drilling this well. Should this well prove productive, a buried pipeline will be laid from the location southward along the access road to the reservation boundary road where it will turn west for about 3,000 feet staying parallel and adjacent to the road to join the flow line from well 4B.

