## UNITED STATES DEPARTMENT OF THE INTERIOR

•	30.	-0	39		2201	6
Ú.	i. Si≜oni	114310	NATION	AND	SERIAL NO.	

	GEOLOGICAI	SURVEY		İ	Joint Ventur	e
APPLICATION FOR	U. IF INDIAN, ALLOTTER OR TRIBE NAME					
In TYPE OF WORK	TCK	- Jicarilla Apache				
DRILL X	Di	EEPEN 🗌	PLUG BAC	Κ□	7. UNIT AGREEMENT NA	/M I
b. Type of well. OIL. GAS WELL X 2. NAME OF OPERATOR	OTHER		SINGLE MULTIPL ZONE ZONE	R	S. FARM OR LEASE NAM Apache-JVA	
Pälmer	Oil & Gas Com	pany			9. WELL NO.	
3. ADDRESS OF OPERATOR		·			#7	-
P.O. B	ox 2564, Billi	ngs, Monta	ana 59103	ļ	10. FIELD AND POLL, OF	
4. LOCATION OF WELL (Report loc At surface	ation clearly and in acco	rdance with an	y State requirements.*)		Blanco-Mesav	erde ON/ -
A .	'FSL, 1500'FEL				11. SEC., T., R., M., OR B AND SURVEY OR AR	LK.
Sam	e				NW≟SE≟ Sec.	17-27N-2V
11. DISTANCE IN MILES AND DIRE	CTION FROM NEAREST TO	WN OR POST OFF	ICE*		12. COUNTY OR PARISH	13. STATE
Approx	. 27 miles Nor	th of Oji	to		Rio Arriba	_ New Mexico
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit ili	1500	16.	No. OF ACRES IN LEASE  Joint Venture	17. No. 0 10 TH 320	P ACRES ASSIGNED IS WELL	_ non_non
18. DISTANCE FROM PROPOSED LOC	ATION*	19.	PROPOSED DEPTH		Y OR CABLE TOOLS	
TO NEAREST WELL DRILLING, OR APPLIED FOR, ON THIS LEASE,			6350'	Rota	ary	
21. ELEVATIONS (Show whether DF,	RT, GR, etc.)				22. APPROX. DATE WOL	K WILL START*
72381	GR.				April 1	1979
23.	PROPOS	ED CASING A	ND CEMENTING PROGRAM	M	,	• • • • • • • • • • • • • • • • • • • •
SIZE OF HOLE SIZ	E OF CASING WE	GHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMEN	T
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	
T27N-R2W.  2. Well to be dril	led by rotary	tools. Se	6350' Mesaverde tet 300' of 9-5/8'' casing. Air drif	casin	g and cement to	o surface;

- 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,  $4\frac{1}{2}$ " casing or liner will be set, cemented and perforated.
- After perforating, the productive zones will be fractured, if necessary.
- Survey plat attached.
- 6. Spacing unit will be  $E_{\frac{1}{2}}$  of Section 17.
- Gas is not dedicated.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vel preventer program, if any. 24.

ROBERT D. Ballantyne	TITLE	Drilling Superintendent PATE March 5, 1979
(This space for Federal or State office use)		
PERMIT NO.		APPROVAL DATE DECEIVE
APPROVED BYCONDITIONS OF APPROVAL, IF ANY :	TITLE	MAR 7 1979
oh 5mh		0 0 0 0 0 0 0 0 0 0 0 V

U. S. GEOLOGICAL SURVEY DURANGO, COLO.

All distances must be from the outer boundaries of the Section. Well No. i.ease Operator APACHE JVA PALMER OIL & GAS COMPANY County Range Townsnip Section Unit Letter RIO ARRIBA 27N 17 Actual Footage Location of Well: East 1500 feet from the South 1820 feet from the Dedicated Acreage: Producing Formation Ground Level Elev. 320 Acres Blanco-Mesaverde Mesaverde 7238 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 ☐ No Yes 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 best of my knowledge and belief. Roberto Name Robert D. Ballantyne Position Drilling Superintendent Palmer Oil & Gas Company March 5, 1979 Sec I hereby certify that the well location 17 shown on this plat was plotted from field notes of actual surveys made by me or 15001 under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed December 8. 500 1000 2000 1320 1650 1980 2310 2640

## TWELVE POINT PLAN OF DEVELOPMENT

For Surface Use for Palmer Oil & Gas Company's Apache JVA #7 NW1SE1 Section 17-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, then right for one mile into Leavry Canyon, turn south on access road and travel for a quarter of a mile to the location. See Appendix 1, Pages 87, 88, and 89 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 hole at Bassett Springs, located in approximate Center of Sec. 5-26N-2W.

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.
- 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. If there are any trees which have to be destroyed in building the location or access road, these trees will be counted by BIA and Palmer's representative and the Jicarilla Apache Tribe will be compensated for same.

- 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 87, 88, and 89 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 archaeological, cultural, or historical sites on this site. An archaeological survey will be done at the time of the location inspection by the Government Agency and Palmer's representative.
- 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

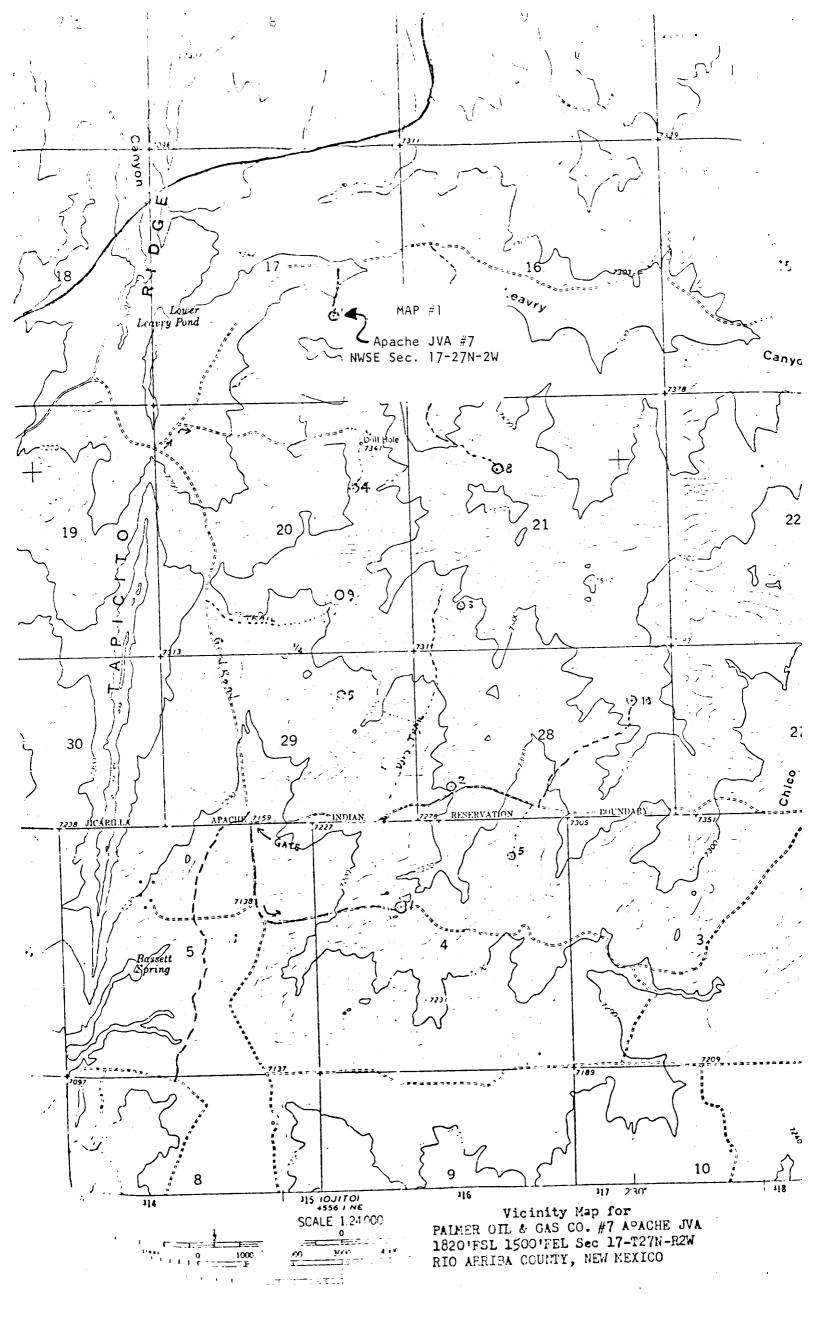
## STYEN POINT WELL CONTROL PLAN

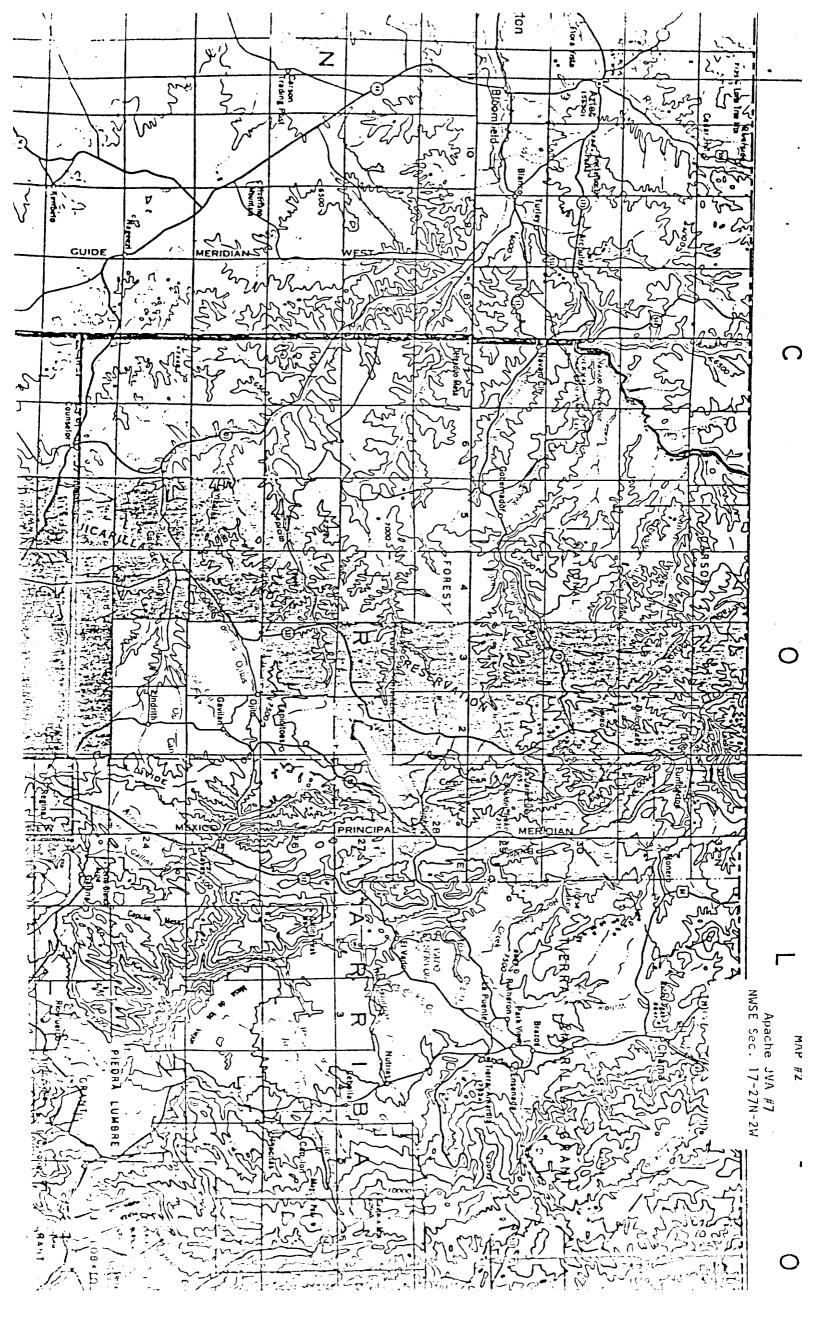
PALMER OIL & GAS COMPANY
Abache JVA #7
NW1SE1 Section 17-T27N-R2W
Rio Arriba County, New Mexico

- 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.
- 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 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





and Township Plat	Lownamp.	, Range 2W County		State New Next	
THE KOMME TO LINE	,				
					· <del>-</del>
-				36	_
36	31	32 33			
					1
	.;				
		-5	-3	h - 1	
		7-123-1313 111111111111111111111111111111			
		1 1 1		7-	_
-12	7	-8	10	1-	
		+ + 1			
<b>_</b>					
13	18 PO&C	G <b>C</b> 7 — 16 — 16 → Northwes	15 14	1318	$\overline{}$
	JVA	7			
ŧ					<del>-                                    </del>
	Mobi	1 1-1 ♦ POSGC			‡
		⇒ JVA 4	22	2419	
24	19	20 21 P08GC	22 23		
		<b>₩ JVA 3</b>			
	***************************************	211111111111111111111111111111111111111			
25	30	-29	27	25 30	)—
					-
	31	-32	34 35	36 31	ı— <del> </del>
	31				
36					į
30					
30					
30					
30	6	-5	3 2		
	6	-5	3 -2	6	

proposed well 6A is to be located 825 feet from the south line and 1,100 feet from the west line of section 17 at an elevation of approximately 7,170 feet. The well will thus be only slightly west of an existing road and essentially no new construction will be necessary to gain access to the location. Should this well prove productive, a buried pipeline will be laid southward from the location parallel and adjacent to the road for about 2,000 feet to connect with the flow line from well 4A.



Figure 27
Looking North Across the Proposed 6A Location

Proposed well 6B is to be located 800 feet from the north line and 1,100 feet from the west line of section 17



Figure 28
Looking South Across the Proposed 6B Location

at an elevation of approximately 7,125 feet. The well will thus lie just south of State Highway 357. Access to the well would be from an existing dirt road which crosses the location and enters the highway nearby. If this well proves to be productive, a buried pipeline laid parallel and adjacent to the highway will connect it to the existing pipeline at the 3C location, or if that well has not been drilled, to the 3A location.

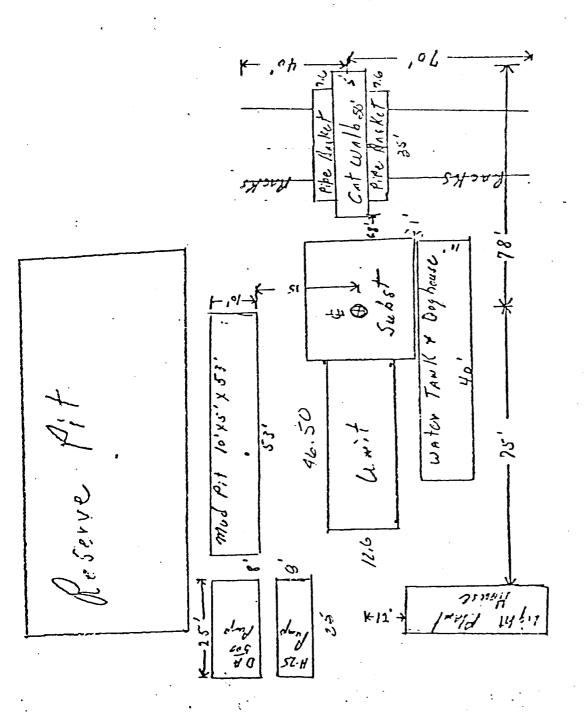
FOUR CURNERS DISELLING CO.

P. O. BOX 1967

702 E. BROADWAY

FARMINGTON, NEW MEXICO 87401

TELEPHONE: 1505) 327-1172



PLAT #3

Apache JVA #7 NWSE Sec. 17-27N-2W