1a. TYPE OF WORK DR b. TYPE OF WELL	DEPARTMENT	GICAL SURVE	, NTERIOR	Other Instruct reverse ald		30 - 015-0 5. LEASE DESIGNATION			
1a. TYPE OF WORK DR b. TYPE OF WELL	GEOLOG	GICAL SURVE				5. LEASE DESIGNATION	AND SERIAL NO.		
Ia. TYPE OF WORK DRI b. TYPE OF WELL			ΞY						
Ia. TYPE OF WORK DRI b. TYPE OF WELL	N FOR PERMIT T					<u>NM 12408</u>			
DRI b. Type of Well		O DRILL, D	DEEPEN, OR	PLUG B	ΑϹΚ	6. IF INDIAN, ALLOTT	E OK TRIBE RAME		
		DEEPEN [ecter es c	К 🗆 .	7. UNIT AGREEMENT	NAME		
	AS OTHER			MULTIPL Zone		8. FARM OR LEASE NA			
2. NAME OF OPERATOR			SEP	2 4 1980		Manzano Fed	leral		
Petroleum De 3. ADDRESS OF OFERATOR	velopment Corpor	ation	<u> </u>	<u> </u>		9. WELL NO. #1			
	laria, N. E., Al	huquorquo				10. FIELD AND POOL,	OR WILDCAT		
4. LOCATION OF WELL (R	eport location clearly and	in accordance wit	h any State requir	ements.*)	<u> </u>	Henshaw-Gray	burg West		
At survace 3214'	FNL, 1835' FEL,					11. SEC., T., R., M., OR AND SURVEY OR			
At proposed prod. zor	ne Jet 10	anit J				Sec. 5, T165	3. B30E		
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICE*			12. COUNTY OF PARIS			
	h of Loco Hills					Eddy	N. Mex.		
15. DISTANCE FROM PROP LOCATION TO NEARES	USED* T		16. NO. OF ACRES	IN LEASE		OF ACRES ASSIGNED HIS WELL			
PROPERTY OR LEASE 1 (Also to nearest dr)	g. unit line, if any) -	515'	280		20 8074	40			
18. DISTANCE FROM PROJ TO NEAREST WELL, D OR APPLIED FOR, ON TH	DRILLING, COMPLETED,	one	2,850'	тв		otary			
21. ELEVATIONS (Show wh			2,000		1 10	22. APPROX. DATE W	ORK WILL START*		
3.796.7 G						Sept. 27, 1	1980		
<u> </u>		ROPOSED CASH	NG AND CEMENT	ING PROGRA	. M				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	OOT SETTI	NG DEPTH		QUANTITY OF CEM	ENT		
	8-5/8"	24#		50'	3/	00_sx			
7-7/8"	4-1/2"	9.5#	2	50'	2	200 sx			
600 PSI. 2. Drill 7-7	hole to 450'; : 7/8" hole to TD, 2" casing or P &	to test Pr	emier Forma	tion wit		ECEIVE	D /		
<i>y</i> . <i>max 4 27</i>			v			SEP 1 0 1980) a tori		
					Ų. 	s. Geological Su Artesia, New Mey	irve <u>y</u> (IC O		
IN ABOVE SPACE DESCRIB zone. If proposal is to preventer program, if an	BE PROPOSED PROGRAM : If drill or deepen directions ny.	proposal is to dee illy, give pertinen	pen or plug back, ; t data on subsurfa	rive data on pr ce locations an	resent proc od measure	ductive zone and propo ed and true vertical dep	sed new productive oths. Give blowout		
24.	~ 1								
SIGNED	Aus	tı	TLE Presio	lent		DATE Sept.	9, 1980		
	eral or State office use)								
(This space for Fed									
			A DOBAN AT	ПАТЕ					
PERMIT NO.	L SECRGE HL STE		APPROVAL	DATE	NONE	1; CF2	1 7 1980		

NE MEXICO DIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the mater boundaries of the Section w --...... 1 MANZANO FEDERAL PETROLEUM DEVELOPMENT CORP EDDY ×10 **30 EAST** 16 SOUTH J Actual Fontage Location of Weilt EAST 1835 NORTH 3214 foot from the tine line and teel from the Dedinated Accession Froot Froducing Formation Ground Level Elev 40 Henshaw Grayburg, West 3796.7 GR Premier 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 consulidated by communitization, unitization, force-pooling. etc? same ownership If answer is "yes," type of consolidation _ Yes Yes No No 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 conad herein is true and complete to the knowledge and belief ACCEPTED FOR RECORD Johnson SEP 1 6-1980 President Ensition U.S. GIOLOGICAL SURVEY PETROLEUM DEVELOPMENT CORP. 5 ROSW .. Comp un v 9/9/80 [ale I hemby certify that the well location 1835' shown on this plat was plotted from field notes of actual surveys made by me ar my suber is true and correct to the best of my knowledge and belief U.S. Ezulutiona O ARTESHA, HEHT INE Date Surveyed AUGUST 18, 1980 Registered Professional Enginee and/or L PATRICK A

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United States Department of the interior

GEOLOGICAL SURVEY SPECIAL APPROVAL STIPULATIONS

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN:

ZAHUFED NO. 1 DEV.CORP DESIGNATION Ľ COUNTY ŇÖ

THE SPECIAL STIPULATIONS CHECK MARKED BELOW ARE APPLICABLE TO THE ABOVE-DESCRIBED WELL AND APPROVAL OF THIS APPLICATION TO DRILL IS CONDITIONED UPON COMPLIANCE WITH SUCH STIPULATIONS. EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE APPEAL TO THESE SPECIAL STIPULATIONS PURSUANT TO TITLE 30 CFR 290.

X	cemented of the R to the b	surface casing shou'd be set in the Rustler Anhydrite formation and inculated to the surface. If surface casing is set at a lesser depth, casing must be cemented from the casing shoe to the surface or to the surface through a stage tool set at least 50 feet below the top ustler after cementing around the shoe with sufficient cement to fill ase of the salt section.
E	3. Before d consist	rilling below the <i>E^S/F^(*)</i> casing, the blowout preventer assembly will of a minimum of one arnular type and two ram type preventers.
	casıng.	rotectors will be run on drill pipe while drilling through the Protectors will be of sufficient number and of sufficient outside to protect the casing.
). Minimum	required fill of cement behind the casing is to
	pressure Any equip T <u>his off</u>	tting the f' casing string and before drilling into the f' casing string and before drilling into the f' casing string and related control equipment shall be tested to rated working pressures-by an independent service company. Soment failing to test satisfactorily shall be repaired or replaced. Ice should be notified in sufficient time for a representative to the tests and shall be furnished a copy of the pressure test report.
F	audio ala	em monitoring equipment, with derrick floor indicators and visual and arms, shall be installed and operating before drilling into the formation and used until production casing is run and cemented. Ig equipment shall consist of the following:
	(1)	A recording pit level indicator to determine pit volume gains and losses.
	(2)	A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
	(3)	A flow sensor on the flow-line to warn of any abnormal mud returns from the well.
X G	. All pits netting,	containing toxic liquids will be fenced and covered with a fine mesh if necessary for the protection of livestock or wildlife.
X H	. Above gro with the	und permanent structures and equipment shall be painted in accordance Painting Guidelines. The paint color is to simulate:
	X	Sandstone Brown, Fed. Std. 595-20318 or 30318
	OR X	Sagebrush Gray, Fed. Std. 595-26357 on 36357

X	Ι.	A kelly cock will	be	installed	and	maintained	ίn	operable	condition.
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J. The <u>ANCTESTE</u> Sub-District Office is to be notified in sufficient time for a representative to witness:

- (a) Spudding L
- (b) Cementing casing

 inch
 inch
inch

(c) BOP-tests

- K. A Communitization Agreement covering the acreage dedicated to the well must be filed for approval with the U. S. Geological Survey, P. O. Box 26124, Albuquerque, New Mexico 87125. The effective date of the agreement must be prior to any sales.
- L. A Gamma Ray-Compensated Neutron log is required from the base of the salt section to the surface with cable speed not to exceed 30 feet per minute.
- M. At least one working cay prior to constructing the well pad, access roads and/or related facilities, the operator or dirt contractor shall notify the authorized officer (Bureau of Land Management, <u>CARLS 37</u>) area). He shall also notify the Authorized Officer within two working days after completion of earth-moving activities.
- N. All access roads constructed in conjunction with the drilling permit (APD) will be limited to a <u>12</u> foot wide driving surface, excluding turnarounds. Surface disturbance associated with construction and/or use of the road will be limited to <u>2</u> feet in width. If well is a producer, all roads will be adequately drained to control runoff and soil erosion. Drainage facilities may include ditches, water bars, culverts and/or any other measures deemed necessary by the authorized officer of the BLM. The following is a general guide for the spacing of water bars:

% Slope

0.

les	S	than	2%											200	ft.
2%	to	4%			•									100	ft.
		5%													
mor	e	than	5%	•						-			•	50	ft.
Oth	er	spe	cial	5	st	ip	i la	at:	ior	15					

- \mathcal{Q}_{ℓ} Any permanent pit containing waste oil must be fenced and covered with mesh wire.
- b. ARCHKOlogist to bE NOTIFIED sobys before Construction. C. TURNCOUTS AS AGREED.

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PETROLEUM DEVELOPMENT CORPORATION

9720-B CANDELARIA, NE ALBUQUERQUE, NEW MEXICO 87112 TELEPHONE (505) 293-4044

MULTI-POINT DRILLING PLAN

Petroleum Development Corporation Manzano Federal #1 3214' FNL, 1835' FEL, Sec. 5, T16S, R30E Eddy County, New Mexico Lease: NM 12408 (280 acres)

This supplemental plan is submitted with the Application to Drill the above-described well in compliance with NTL-6 of the United States Department of the Interior.

- 1. The surface is composed of fine-grained sand, quaternary in age.
- 2. Estimated top of primary geologic markers are:

GR Elevation: 3797'

3. The estimated depths at which anticipated water, oil or gas bearing formations are to be encountered, are:

2707 feet

0i1

Premier

- 4. Proposed casing program: See Form 9-331C.
- 5. Pressure control equipment: See schematic, Exhibit "D".
- 6. Mud program: Drill to T.D. with fresh water. Mud up with Gel for logging.
- 7. Auxiliary equipment to be used: None

Page 2 Multi-Point Drilling Plan Petroleum Development Corporation Manzano Federal #1, Eddy County, New Mexico

- 8. Testing, coring and logging program:
 - (1) All significant shows of oil or gas will be drill-stem tested. Testing procedure will involve use of dual packers, jars and safety joint. Duration of test, shut-in times, etc. will be determined by company engineer in charge.
 - (2) The following logs will be run:a. Density log with gamma ray.b. Dual laterolog.
- 9. No abnormal pressures are expected.
- 10. Anticipated spud date is September 27, 1980. Drilling operations will require approximately 5 days; completion operations will require an additional week.

