SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

	DEPARTMENT OF THE INTERIOR						5. LEASE DESIGNATION AND SERIAL NO.				
		GEOLOG	SF 078208								
-	APPLICATION	1 FOR PERMIT T	G. IF INDIAN, ALLOTTEE OR TRIBE NAME								
	a. TYPE OF WORK DRI	DEEPEN [DEEPEN PLUG BACK		K 🗆	7. UNIT AGREEMENT NAME					
	b. TYPE OF WELL OIL GA WELL GA W L NAME OF OPERATOR		81 Z(NGLE MULTIPE	LE	E. FARM OR LEASE NAME					
_	El Paso Na	atural Gas Co	mpany				Sunray B 9. WELL NO.				
	PO Box 99	0, Farmington	2A 10. FIELD AND POOL, OR WILDCAT								
, _	4. LOCATION OF WELL (R. At surface	eport location clearly and 1562'N, 39	Blanco Mesa Verde ~ 11. sec., t., r., M., or BLK. AND SURVEY OR AREA								
-	At proposed prod. zon	e					Sec.1,T-30-N,R-10-W				
j		AND DIRECTION FROM NEAR East of Azte		OFFIC	E*		12. COUNTY OR PARISH 13. STATE San Juan NM				
-	15. DISTANCE PROM PROPO LOCATION TO NEAREST	SED*		16. N	O. OF ACRES IN LEASE		OF ACRES ASSIGNED THIS WELL				
_	PROPERTY OR LEASE I (Also to nearest drig	.INE, FT. g. unit line, if any)	392'	10 p	637.11	20 ROTA	MY OR CABLE TOOLS				
-	18. DISTANCE FROM PROP TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED,	400	19. r	6055'	Rota	/				
-	21. ELEVATIONS (Show wh					·	22. APPROX. DATE WORK WILL START*				
•	23.	P									
	SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	OOT SETTING DEPTH			QUANTITY OF CEMENT				
	13 3/4"	9 5/8"	32.3#	}		1	cu.ft. to circulate				
	8 3/4" 6 1/4"	7" 4 1/2"line	20.0# r 10.5#		3740' 3590-6055'		cu.ft.to cover Ojo-Alamo cu.ft.to fill to 3590'				
		1	i "		ı	1					
		6				l	an Vanda farmation				
	Selective.	ly periorate	and sandw	ate	r fracture t	ne me	sa Verde formation.				
	A 3000 psi WP and 6000 psi test double gate preventer equipped with										
	blind and pipe rams will be used for blow out prevention on this well.										
	This sas										
	Illis gas .	is dedicated.									
	The W/2 of Section 1 is dedicated to this well.										
	IN ABOVE SPACE DESCRIB	E PROPOSED PROGRAM: If drill or deepen directions	neonocal is to doon	on or	nlug back give data on i	oresent pro	oductive zone and proposed new productive ed and true vertical depths. Give blowout				
	preventer program, if an 24.	1/2 / ·									
	signed .	1. Busio	TIT	I.E	Drilling	Clerk	— DATE December 8, 197				
	(This space for Fed	eral or State office use)									
	PERMIT NO.				APPROVAL DATE						
	APPROVED BY		TiT	LE			DATE				
	CONDITIONS OF APPRO										

NWU 3-253

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

All distances must be from the	outer boundaries of the Section					
Operator Lease		Well No.				
EL PASO MATURAL GAS COMPANY	SUN RAY "B" (SF-078208)	2-A				
	County	•				
E 1 30 NORTH	10 WEST SAN JUAN					
Actual Footage Location of Well:						
1562 feet from the MORTH line and 392		·				
Ground Level Elev. Producing Formation Pool		d Avereage:				
6646 MESA VERDE	BLANCO MESA VERDE 256.	Acres				
1. Outline the acerage 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 edinterest and royalty),	ach and identify the ownership thereof (bot	th as to working				
3. If more than one lease of different ownership is dedicated by communitization, unitization, force-pooling, etc?	to the well, have the interests of all owners	been consolidated				
() Yes () No If answer is "yes," type of consolidation						
If answer is "no," list the owners and tract descriptions which necessary.)	have actually consolidated. (Use reverse sid	e of this Form if				
No allowable will be assigned to the well until all interests have pooling, or otherwise) or until a non standard unit, eliminating						
	CERTIFI	CATION				
	I hereby certify that t	the information contained				

Position El Paso Natural Gas Co. Company

N

kapwiedge and belief.

December 8, 1977 Date

Drilling Clerk

I hereby certify that the well location shown this plat was plotted from field notes of actual surveys made by ma or under my supervision, an that the same is true and correct to the bast of knowledge and belief.

herein is true and complete to the best of my

used

28 October Date Surveyed

Registered Professional Engineer and/or Land Surveyor

SF-078208

SCALE-4 INCHES EQUALS 1 MILE

FARMINGTON, N. M. SAN JUAN ENGINEERING COMPANY,

Certificate No. 1463



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan Sunray B #2A

- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
- Planned Access Roads Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
- 3. Location of Existing Wells Please refer to Map No. 2
- 4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines Please refer to Maps No. 1 and No. 2.

 Map No. 2 shows the existing gas gathering lines. Map No. 1 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.
- 5. Location and Type of Water Supply Water for the proposed project will be obtained from a water hole located in Pump Canyon Water Hole.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.

- 7. Methods of Handling Waste Materials - All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3'). A latrine, the location of which is also shown on Plat No. 1 will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.
- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed Mixture #2 will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted Juniper Green (#595-34127)
- 11. Other Information The terrain is sandstone ledges and high hills covered with pimon and cedar trees.

 Deer are occasionally seen on the proposed project site.

- 12. Operator's Representative W. D. Dawson, Post Office Box 990, Farmington, New Mexico 87401
- 13. Certification -

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 El Paso Natural Gas Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

December 8, 1977

D. R. Read

Division Drilling Engineer

DRR: pb

Operations Plan Sunray B #2A

I. Location: 1562'N, 392'W, Section 1, T-30-N, R-10-W, San Juan County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 6646'GL

II. Geology:

Α.	Formation	Tops:	Surface	San Jose	Lewis	3540'
			Ojo Alamo	2000'	Mesa Verde	4995'
			Kirtland	2150'	Menefee	5185'
			Fruitland	2 955 '	Point Lookout	5606 '
			Pic.Cliffs	3 365 '	Total Depth	6055 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4985', 5175', 5595' and at Total Depth.
 Also gauge any noticeable increase in gas. Record all gauges in
 daily drilling report and on morning report.

III. Drilling:

A. Mud Program: mud from surface to 3740'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
		13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3740'	7"	20.0# K-55
		6 1/4"	3590-6055'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - Larkin guide shoe (fig. 102)

7" intermediate casing - Dowell guide shoe (fig. 50101) and Dowell self-fill insert float valve (fig. 53003), 5 B&W stabilizers (Prod. No. 637085) every other joint above shoe. Run float two joints above shoe.

- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Larkin geyser shoe (fig. 222) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 6055' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple above perforated pup joint with bull plugged full joint for mud anchor on bottom.
 - D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.

Operations Plan - Sunray B #2A, cont'd.

V. Cementing:

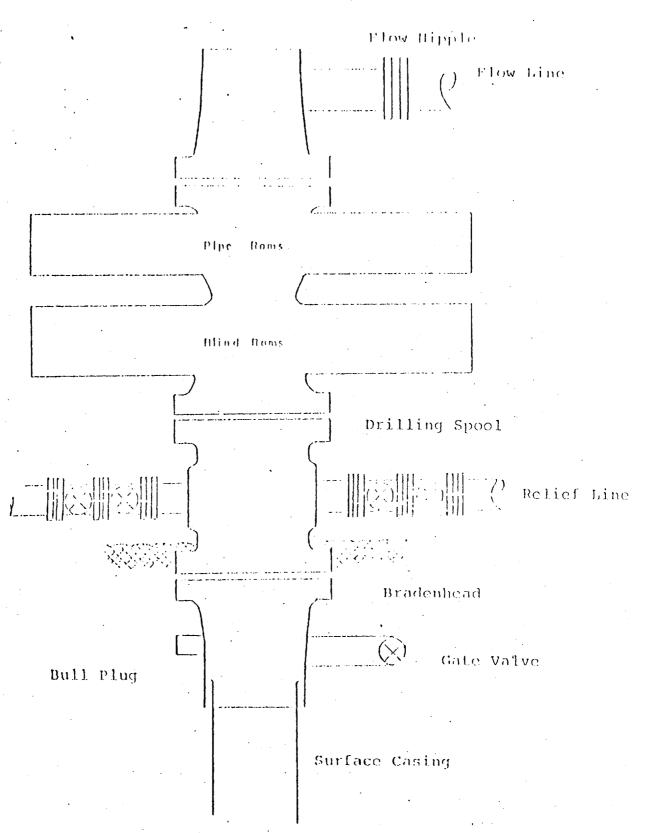
9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 169 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (392 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.

4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 238 sks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (429 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

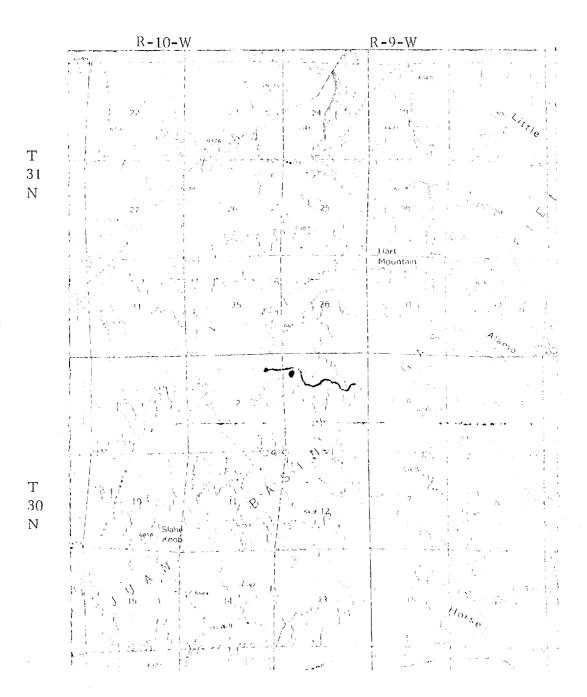
from wellhoad to forthout a 170' Typical Location Plat For Mose Verde and Witholes File + FE Cut 4th 12. Draw Works Mad Trank Reserve 12 Feel Tunk Xaira6

Typicar N.O.) Instarration Low Mesa Merde Well



Series 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line

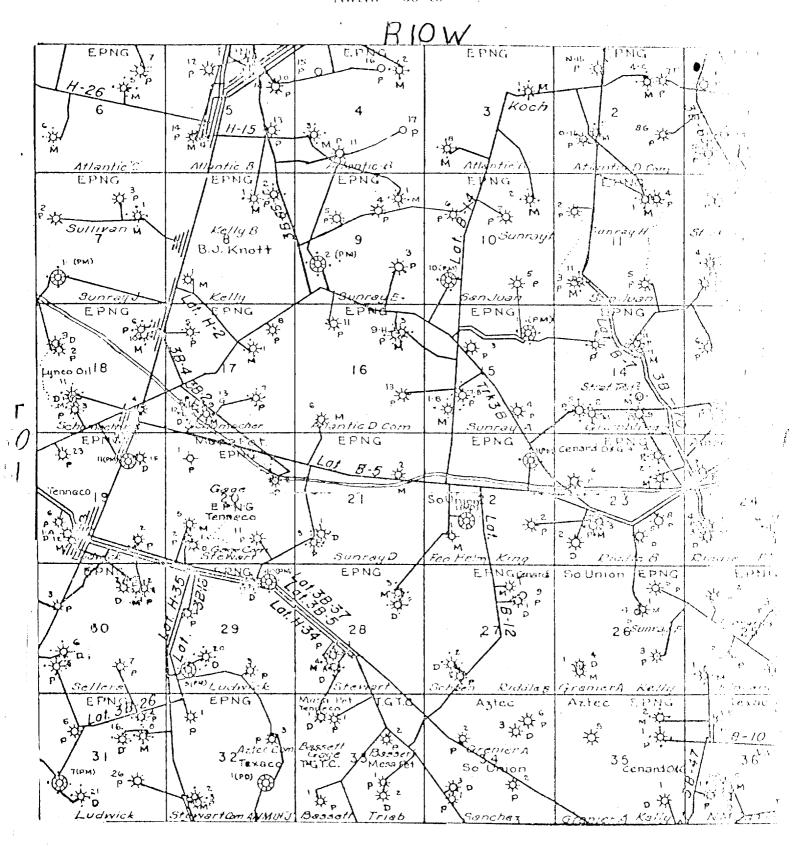
EL PASO NATURAL CAS COMPANY Sunray B #2A NWNW 1-30-10



MAP #1

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TROLOGED				
GROPT-FRO	FOREGINE.	+	+	-
TROPOUR	ADVIDE FRANCE	٠ -	1-1	



MAP #2
Proposed Location