1 / A

### SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

50 046 24065 5 LEASE DESIGNATION AND SERIAL NO.

UNITED STATES						
DEPARTMENT	OF	THE	INTERIOR			

**GEOLOGICAL SURVEY** 

GEOLOGICAL SURVEY					SF 078285				
APPLICATION	N FOR PERMIT T	O DRILL, I	DEEPEN, OF	PLUG I	BACK	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME		
a. TYPE OF WORK  DRI b. TYPE OF WELL	LL 🖾	DEEPEN [		PLUG BA	CK 🗌	7. UNIT AGREEMENT	NAME		
	S OTHER		SINGLE ZONE	MULTI ZONE	PLE	8. FARM OR LEASE NA	ME		
WELL WELL OTHER ZONE ZONE . NAME OF OPERATOR						Sunray			
El Paso Na	atural Gas Co	mpany				9. WELL NO.			
. ADDRESS OF OPERATOR					•	_ 6	-		
PO Box 289	), Farmington	, NM 874				10. FIELD AND POOL, OR WILDCAT			
LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface						Blanco Pic			
1530'S, 830'E  At proposed prod. zone						Sec. 21, T-3	REA		
4 MOTENCE IN MILES	Same	FOT TOWN OF PAG	T OFFICE\$			NMPM 12. COUNTY OR PARISI	1   13, STATE		
	est of Aztec,		1 OFFICE			_			
5. DISTANCE FROM PROPO		INPI	16. NO. OF ACRE	S IN LEASE	1.17 80 6	San Juan FACRES ASSIGNED	NM		
LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	ine, fr. . unit line, if any)	830'	1	55.74	тот	HIS WELL	155.74		
<ol> <li>DISTANCE FROM PROP TO NEAREST WELL, D. OR APPLIED FOR, ON THE</li> </ol>	RILLING, COMPLETED,	500 <b>'</b>	19. PROPOSED DE	275 <b>'</b>		20. ROTARY OR CABLE TOOLS ROTARY			
1. ELEVATIONS (Show who 6209 GL	ether DF, RT, GR, etc.)					22. APPROX. DATE W	ORK WILL START*		
3.	P	ROPOSED CASI	NG AND CEMEN	ring Progr	AM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот ветт	ING DEPTH		QUANTITY OF CEME	ent .		
12 1/4"	8 5/8"	24.0		120 <b>'</b>	84 sk	s. circ. to	surface		
7 7/8"	4 1/2"	10.5	3	275 <b>'</b>		sks.to cover			
A 3000 psiblind and This gas i	_	psi test 11 Parase NO'	Edbuble of forgold surrounding N. M.	gate prow out	evente prever				
N ABOVE SPACE DESCRIBE	of Section 21 proposed Program: If I drill or deepen directionally.	proposal is to deep	pen or plug back,	give data on	present prod				
SIGNED A.	J. Duse	<i>O</i> Ti'	rleD:	cilling	Clerk		27-79		
-	ral or State office use)		A D D D O V + 1	DATE					
PERMIT NO.		119.7	AFFRUVAL	VALE			,		
APPROVED BY		TI	PLE			DATE			

\*See Instructions On Reverse Side

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

1980

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. PASO NATURAL GAS COMPANY SUNRAY (SF-078285) 6 Unit Letter Section Range County Ι 21 31N 10W SAN JUAN Actual Footage Location of Well: 1530 SOUTH 830 feet from the EAST line and feet from the Ground Level Elev. Producing Formation Pool Dedicated Acreage: 6209 PICTURED CLIFFS BLANCO PICTURED CLIFFS 155.74 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? Yes ]-No If answer is "yes," type of consolidation 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 of my knowledge and belief. Drilling Clerk Position El Paso Natural Gas Co. Company November 27, 1979 I hereby certify that the well location shown on this plat was plotted from field SF-078285 notes of actual surveys made by me or under my supervision, and that the same 8301 is true and correct to the best of my knowledge and belief. Date Surve 530 and for 1 16 Mark Certificate

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660

1320 1650

1980 2310

# EIPEED NATURAL GAS

Professione FARMULTEGERI VIMEN OF ALMOS PROPERTIES AND AND AND

Well Name SUNRAY # 6	
Location 1530 SL / 930 F1 Sec. 21 T	1310 LIOW
Formation C	•
We, the undersigned, have inspected this location	and road.
U. S. Forest Service	Date .
Archaeologist/	_15/2 / FRG
Archaeologist;	Date '
Bureau of Indian Affairs Representative	Date
Bureau of Land Ward Mal	18/4/79
Bureau of Land Management Representative	Da'te / /
Ander Heims	10/4/79
U. S. Geological Survey Representative - AGREES TO THE FOOTAGE LOCATION OF THIS WELL. REASON:	Date
Seed Mixture:	
Equipment Color: BROWN	
Road and Row: (Same) or (Separate)	
Remarks:	



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

#### Multi-Point Surface Use Plan

#### Sunray #6

- 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.
- 2. 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 Hart Canyon Water Well.
- 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,

7. cont'd.

- 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 as designated by the responsible government agency 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 as designated by the responsible government agency.
- 11. Other Information The terrain is rolling mesa top with sage and mormon tea growing. Cattle and deer are occasionally seen on the proposed project site.
- 12. Operator's Representative W.D. Dawson, PO Box 990, Farmington, NM
- 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.

L. A. Aimes

Project Drilling Engineer

## Operations Plan - Sunray #6

I. Location: 1530'S, 830'E, Section 21, T-31-N, R-10-W, San Juan County, NM

Field: Blanco Pictured Cliffs Elevation: 6209'GR

### II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Pictured Cliffs	2975
			Ojo Alamo	1590'	Lewis	3130'
			Kirtland	1635'	Total Depth	3170'
			Fruitland	2550 <b>'</b>	-	

B. Logging Program: Induction Electric and Gamma Ray Density at TD.

C. Coring: none

#### III. Drilling:

A. Mud Program: mud from surface to TD.

# IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
		12 1/4"	120'	8 5/8"	24.0# J-55
		7 7/8"	3170'	4 1/2"	10.5# K-55

B. Float Equipment: 8 5/8" surface casing - cement guide shoe.

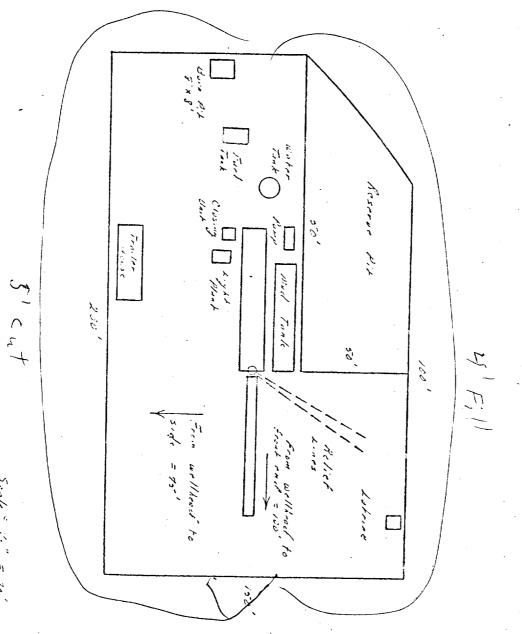
4 1/2" production casing - run cement guide shoe on bottom of a 6' shoe joint. Run a self fill insert floatvalve on top of the shoe joint. Run 8 4 1/2" x 7 7/8" centralizers, one on each joint beginning with the shoe joint.

- C. Tubing: 3170' of 1 1/4" EUE, 2.4#, K-55 tubing
- D. Wellhead Equipment:  $8\ 5/8" \times 4\ 1/2"$  2000 psi WOG wellhead with a  $4\ 1/2" \times 2\ 3/8"$  2000 psi WOG tubing head. Wellhead representative to set  $4\ 1/2"$  casing slips.  $4\ 1/2"$  casing to be cut off 24" above casing slips.

#### V. Cementing:

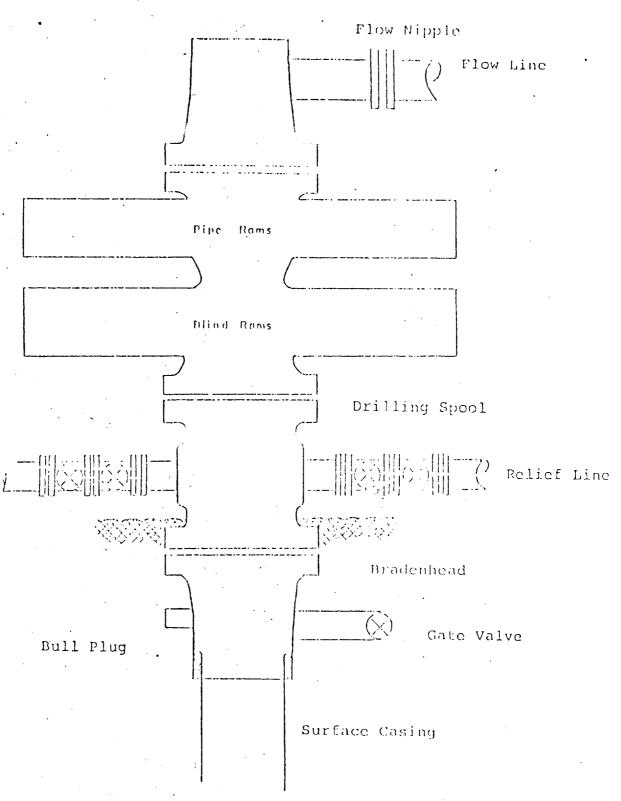
o 5/8" surface casing - 84 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (99 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing, wellhead, and BOP to 600#/30 minutes.

4 1/2" production casing - precede cement with 5 bbls. water. Cement with 260 sks. 65/35 Class "B" Poz with 6% gel and 8.3 gal. water/sk. followed by 100sks. 50/50 Class "B" Poz w/2% gel (540 cu.ft. of slurry, 50% excess to cover 0jo Alamo). Spot 200 gal. 7 1/2% acetic acid on top of plugs. Run temperature survey after 12 hours.



Scale : 12"

# Typical Mud Drilled B.O.P. Installation for Pictured Cliffs Well



8" Series 900 Double Gate BOP, rated at 3000 psi Working Pressure

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