SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES reverse side)

DEPARTMENT OF THE INTERIOR					5. LEASE DESIGNATION AND SERIAL NO.		
GEOLOGICAL SURVEY					SF 077730		
APPLICATION	FOR PERMIT T	O DRILL, I	DEEP	EN, OR PLUG E	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TYPE OF WORK	L 🗵	DEEPEN [PLUG BA		7. UNIT AGREEMENT NAME	
	S.L. X OTHER			INGLE MULTIPONE ZONE	, TE	8. FARM OR LEASE NAME	
El Paso Na	tural Gas Co	mpany				Sunray E 9. WELL NO.	
3. ADDRESS OF OPERATOR						- 2A	
	, Farmington		401			10. FIELD AND POOL, OR WILDCAT	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 1040'N, 1765'W						Blanco Mesa Verde 11. SEC., T., R., M., OR ELK. AND SURVEY OR AREA	
At proposed prod. zone						Sec.9,T-30-N,R-10-W NMPM	
14. DISTANCE IN MILES A			T OFFIC	E.		12. COUNTY OR PARISH 13. STATE	
	st of Aztec,	NM				San Juan NM	
15. DISTANCE FROM PROPOS LOCATION TO NEAREST PROPERTY OR LEASE LI (Also to nearest drig.	NE, FT.	875' 16. NO. OF ACRES IN 605.		605.5		17. NO. OF ACRES ASSIGNED TO THIS WELL.	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		400'	19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS 5675' Rotary				
21. ELEVATIONS (Show whet 6351 GR	her DF, RT, GR, etc.)				- `	22. APPROX. DATE WORK WILL START*	
23.	P	ROPOSED CASI:	NG AN	D CEMENTING PROGR.	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	өэт	SETTING DEPTH		QUANTITY OF CEMENT	
13 3/4"	9 5/8"	32.3#		200'	224	cu.ft. to circulate	
8 3/4"	7"	20.0#		3330 '	388	cu.ft.to cover Ojo Alamo	
6 1/4"	4 1/2"line	r 10.5#		3180-5675'	409 cu.ft.to fill to 3330'		
						sa Verde formation.	
blind and	pipe rams wil	ll be use	d f	or blow out r	evente prever	er equipped with	
	s dedicated.						

The W/2 of Section 9 is dedicated to this well.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowfut рг $\overline{24}$

eventer program, it any.		A STATE OF THE STA
SIGNED DI BUECO TITO	LEDrilling_Clerk	DATE July 24, 1978
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	

DATE _

CONDITIONS OF APPROVAL, IF ANY 0h Frank NWU 3-760

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. EL PASO NATURAL GAS COMPANY SUNRAY E (SF-077730) 2A Unit Letter Section Township Range County C 9 30N 10% San Juan Actual Footage Location of Well: 1010 North feet from the 1765 line and feet from the West Ground Level Elev. Producing Formation Dedicated Acreage: 6351 Mesa Verde Blanco Mesa Verde 303.04 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 Yes If answer is "yes," type of consolidation _ 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 contained herein is true and complete to the best of my knowledge and belief. 17651 Drilling Clerk Position El Paso Natural Gas Co. July 25, 1978 SF-077730 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or E-1/2 under my supervision, and that the same 0 is true and correct to the best of my knowledge and belief. Date Surveyed June and/or L Fred

3950

660

1320 1650 1980 2310

2000

1500

1000

500



PIO BOY 990 FARMINGTON, NEW MEXICO (#7401

PHONE: 505-325-2841

Multi-Point Surface Use Plan Sunray E #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.
- 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 Knickerbocker 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 hills and sagebrush flats with sagebrush, pinon and cedar growing. Cattle graze 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.

D. C. Walker

Project Drilling Engineer

Operations Plan Sunray E #2A

I. Location: 1040'N, 1765'W, Section 9, T-30-N, R-10-W, San Juan County, NM

Field: Blanco Mesa Verde Elevation: 6351'GR

II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Lewis	3130'
			Ojo Alamo	1610'	Mesa Verde	4540'
			Kirtland	1615'	Menefee	4780'
			Fruitland	2570 '	Point Lookout	5226'
			Pic.Cliffs	2955 '	Total Depth	5675'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4530', 4770', 5215' 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 3330'. 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"	3330 '	7"	20.0# K-55
		6 1/4"	3180-5675'	4 1/2"	10.5# K-55

7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Pathfinder self-fill insert float valve (Part #2010-6-007), 5 Pathfinder stabilizers (Part #107-10) every other joint above shoe. Run float two joints above shoe.

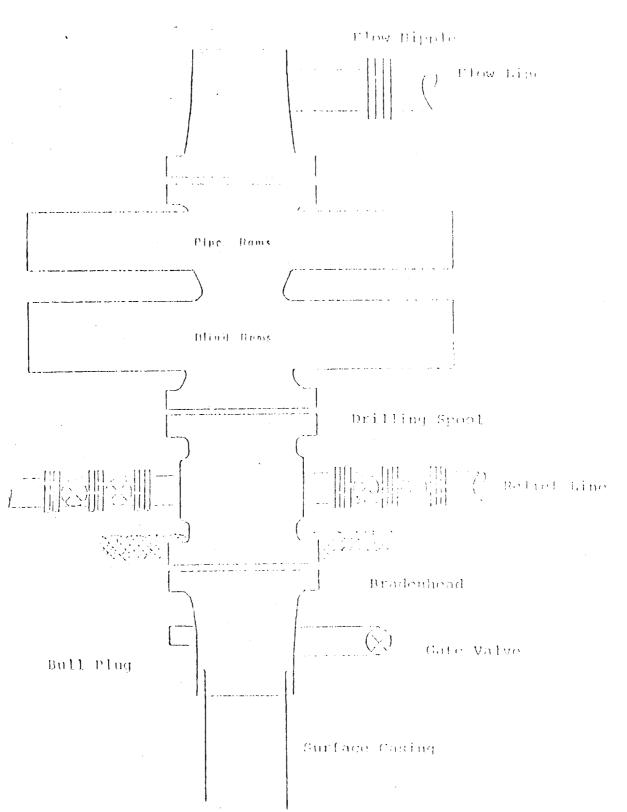
- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Pathfinder geyser shoe (Part #2017-1-050) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 5675' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.

V. Cementing:

9 5/8" surface casing - use 190 sks. of Class "B" cement with $1/4 \pm$ 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.

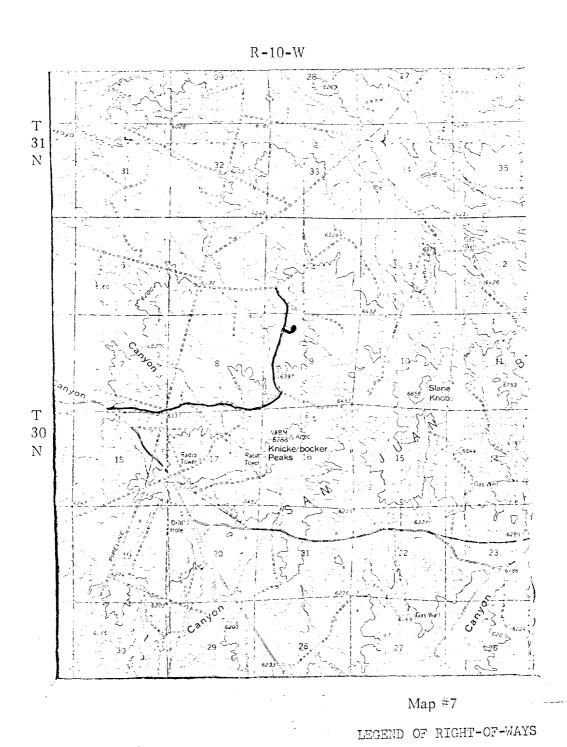
7" intermediate casing - use 167 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (388 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.

4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 294 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (409 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



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 blowle line

7 Down Horns 11.401 El Prop Maineal Cas Well Name: Sunkay E # 27 No 1 80-10 N.U. cut 8 ft Ter mass hands Fill 8 ft 17.10 calle ,,,,,



EXISTING ROADS
EXISTING PIPELINES

PROPOSED ROADS
PROPOSED PIPELINES

EXISTING ROAD & PIPELINE

PROPOSED ROAD & PIPELINE

EL PASO NATURAL GAS COMPANY Sunray E #2A NW 9-30-10

