1s TYPE OF WORK

b. TYPE OF WELL

2. NAME OF OPERATOR

3. ADDRESS OF OPERATOR

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, F1

 $\overline{23}$.

(Also to nearest drlg. unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION®
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

WELL

OIL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE®

SUBMIT IN TR

UNITED STATES DEPARTMENT OF THE INTERIOR

rm 9-331 C May 1963)	·	ED STATES	SUBMIT IN TR (Other instruc reverse si	tions on		l. No. 42-R1425.
		OF THE INTER		ue)	30-045-9	4762
		GICAL SURVEY			5. LEASE DESIGNATION	AND SERIAL NO.
			-N OD DI IIC D	A CI	SF 078204 6. IF INDIAN, ALLOTTER	OR TRIBE NAME
	Y FOR PERMIT T	O DRILL, DEEPI	N, OR PLUG B	ACK	·	
TYPE OF WORK DRI TYPE OF WELL	LL X	DEEPEN 🗌	PLUG BAC	CK 🗆	7. UNIT AGREEMENT NA	ME
VELL GA	S COTHER		NGLE MULTIPE	LE	8. FARM OR LEASE NAM	E
NAME OF OPERATOR					Sunray D	
	atural Gas Co	mpany			9. WELL NO.	
ADDRESS OF OPERATOR	0	. NM 87401			1R 10. FIELD AND POOL, OF	WILDCAT
PO BOX 28 LOCATION OF WELL (Re	9, Farmington eport location clearly and		itate requirements.*)		Blanco Mesa Verde	
At surface At proposed prod. zon	1530'S, 10				11. SEC., T., R., M., OB BLE. AND SURVEY OR AREA Sec. 21, T-30-N, R-10-W	
at proposed prod. 200	C	same			NMPM	
DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POST OFFICE	E*		12. COUNTY OR PARISH	
	ast of Aztec,	NM			San Juan	NM
DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	nne, ft. nuit line, if any)	1030'	645.32	TO TI	ALS WELL S18.88	
DISTANCE FROM PROP TO NEAREST WELL, DI	RILLING, COMPLETED,	•	5640 *		BY OR CABLE TOOLS	
OR APPLIED FOR, ON THE	ther DF, RT, GR, etc.)	600'	5040	Rota	22. APPROX. DATE WOR	K WILL STARTS
6370 GL	euler Dr. RI, GR, ecc.)					
0370 GI		PODORED CARING AND	CEMENTING PROGRA	· · · · · ·	<u></u>	
			,	1 .		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT		
13 3/4"	- 9_5/8"	36.0#	200'		cu.ft.to cir	
8 3/4" 6 1/4"	7" 4 1/2"line	20.0# er 10.5#	3245' 3095-5640'	361 cu.ft.to cover Ojo Alam 444 cu.ft.to circ.liner This action is subject to administrative		
	and the second				oursuant to 30 CFR 29	
Selective	ly perforate	and sandwate	er fracture t	he Me	sa Verde for	mation.
20200	-1 1					
A 3000 ps blind and	i WP and 600 l pipe rams w	ill be used 1	ouble gate pr For blow out	event preve	er equipped ntion on thi	with s well.
This gas	is dedicated	GLP Out is a space	CAL SUTVI		RELETY	
	of Section 21	is dedicate	to this wel		OS 7 1980	²)
ABOVE SPACE DESCRIBE e. If proposal is to venter program, if an	e PROPOSED PROGRAM: If p drill or deepen directions	proposal is to deepen or p lly, give pertinent data o	plug back, give data on pr on subsurface locations ar	resent production of measure	nctive fone al proposed d ind true ertical depth	Mew productive Give blowout
SIGNED SLOG	ny Staafu	eldtitle	Drilling	g Cler	9-8-	80
	ral or State office use)		. —	•		
PERMIT NO.	VED NDFD		APPROVAL DATE			

U. S. GIOLOGICAL The W/2 of Section 21 is dedicat IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on p zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations as preventer program, if any. 24. Drilling radfield BIGNE (This space for Federal or State office use) APPROVAL DATE _ CONDITIONS OF APPROVAL HORE: Lucy Warring DISTRICT ENGINEER *See Instructions On Reverse Side

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO JERGY AND MINISPALS DEPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

All distances must be from the cuter houndaries of the Section Well No. Operator (SF-0782C4) SURRAY "D" EL PASO NATURAL GAS COMPANY Range 30N 13W 21 San Juan L Actual Footage Location of Well: feet from the South 1530 1030 fect from the West line and Dedicated Acreage: Ground Level Elev. Producing Formation BLANCO MESA VERDE 318.88 6370 MESA VERDE 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 _____ 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 ballet. Drilling Clerk Position El Paso Natural Gas September 8, 1980 SF-078204 Sec. 21 Lahareby certify that the well location andwh on this plat was plotted from field mates of actual surveys made by me or undeslimy supervision, and that the same we and correct to the best of my 10301 wledge and belief. Jure 28, 1919 4



P. O. BOX 289 FARMINGTON, NEW MEXICO 87401 PHONE: 505-325-2841

Multi-Point Surface Use Plan Sunray D #1R

- 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 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 with cedar and pinon growing. Deer and cattle are seen occasionally 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.

D. R. Read

Project Drilling Engineer

Operations Plan Sunray D #1R

I. Location: 1530'S, 1030'W, Section 21, T-30-N, R-10-W, San Juan Co., NM

Field: Blanco Mesa Verde <u>Elevation:</u> 6370'GR

II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Lewis	3044'
		•	Ojo Alamo	1642'	Mesa Verde	4553 '
			Kirtland	1722 '	Menefee	4727
			Fruitland	2561 '	Pt.Lookout	5190'
			Pic.Cliff:	s 2905 '	Total Depth	5640 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4545', 4720', 5180' 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 3245'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
		13 3/4" 8 3/4" 6 1/4"	200' 3245' 3095-5640'	9 5/8" 7" 4 1/2"	36.0# H-40 20.0# K-55 10.5# K-55

B. Float Equipment: 9 5/8" surface casing - cement guide shoe.

7" intermediate casing - cement guide shoe and self-fill insert float valve, 5 stabilizers every other joint above shoe. Run float two joints above shoe.

- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Geyser shoe and plug latch-in collar assembly.
- C. Tubing: 5640' 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" 2000 x 9 5/8" casing head. 10" 2000 x 6" 2000 xmas tree.

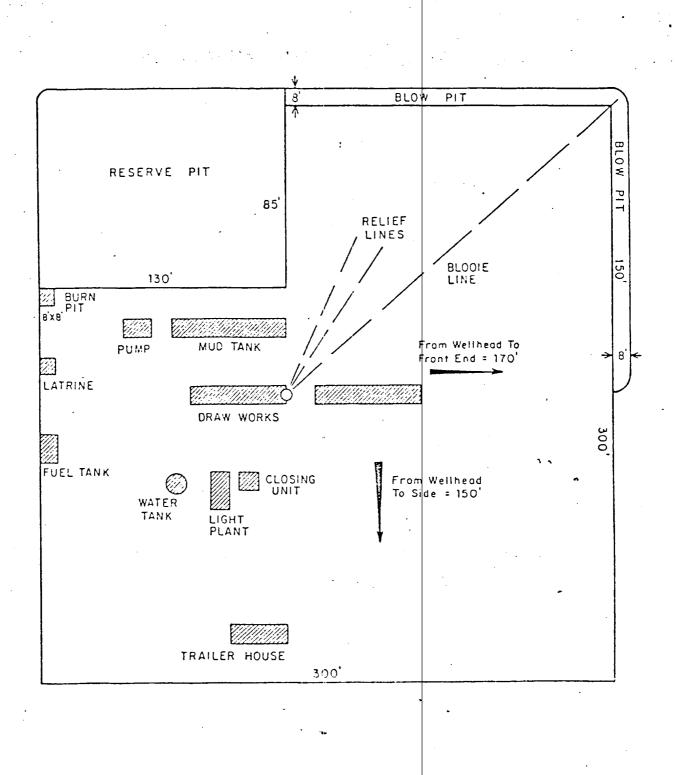
Operations Plan - Sunray D #1R

V. Cementing:

9 5/8" surface casing - use 190 sks. 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 150 sks. 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons water/sack) followed by 100 sks. Class "B" with 2% calcium chloride (361 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.

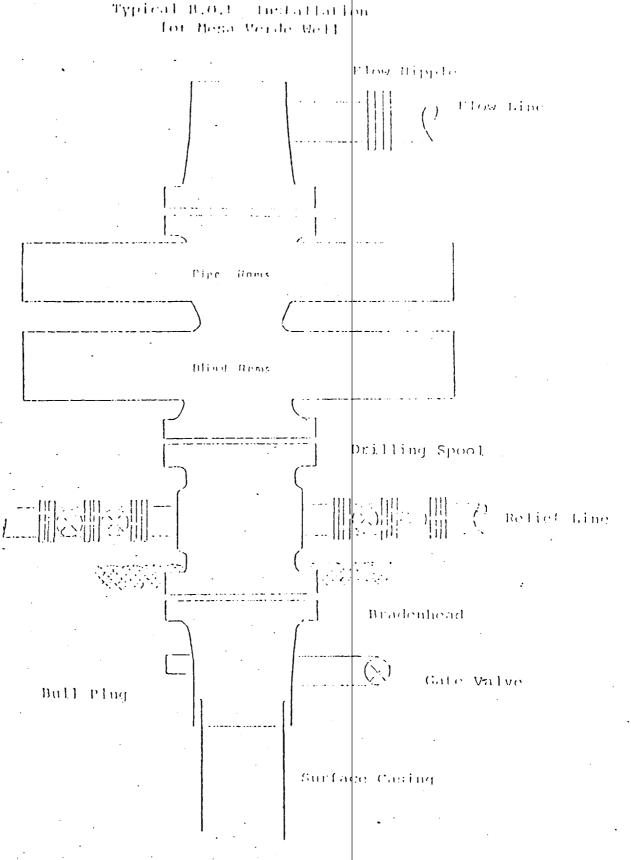
4 1/2" liner - precede cement with 20 bbls. gel water (2 sks.gel). Cement with 319 sks. 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (444 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



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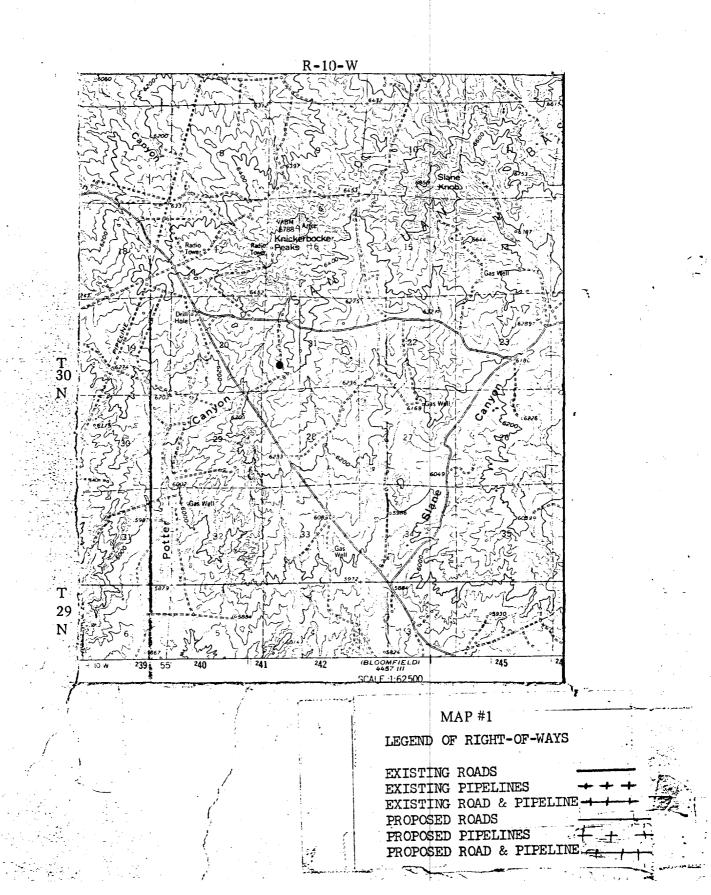
El Paso Natural Gas Company

TYPICAL LOCATION PLAT FOR MESAVERDE OR DAKOTA DRILL SITE



Series 900 Double Gate BOP, 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 GAS COMPANY Sunray D #1R SW 21-30-10



PASO NATURAL GAS COMPAN Sunray D #1R SW 21-30-10 R-10-W Koch *Kelly B* B.J. Knott Stickle 12 10 Sunray 2 (PM) 16 EPNG EPNG WAR 21 SunrayD EPNG EPNG Texaco 35 ((10) MAP #2

MAP #2 Proposed Location