SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Easiget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK a. TYPE OF WORK DRILL X DEEPEN PLUG BACK T. UNIT AGREEMENT NAME T. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME 9. WELL NO. 1. ADDRESS OF OPERATOR PO Box 289, Farmington, NM 87401 1. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA		GEOLO	GICAL SURVEY			SF 078198
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PERMIT NO APPROVAL DATE	(This space for Feder	al or State office use)				
	PERMIT NO.			APPROVAL DATE		
	CONDITIONS OF APPROVE	ADDITIONAL WEL	L NEEDED HOLLOW	TO NEW MEXICO O	RDER R-167	70-T.

*See Instructions On Reverse Side

U.S.G.S. RATIFICATION DATED FEBRUARY 22, 1979.

WELL LUCATION AND ACREAGE DEDICATION PLAT

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Supersodes (-128 Effective 14.-65

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EL PASO NATURAL GAS COMPANY					SUNRAY C (SF-0781		0791091	Well No.		
Unit Letter	NATUKAL Section	GAS CC	JAPANY Township	···	SUNRAY Range		County	-0(0190)	1A	
D		1		30N		11W	1	SAN JUAN	**	
Actual Footage Loc)		700					
1120 Ground Level Elev.	feet from	the NOI		line and	790	fer	ot from the	WEST	line	
5952		SA VERI			Poor	BLANCO ME	ESA VERD	E	Dedicuted Acreage: 322.34	
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2. If more the interest a	han one l nd royalty	ease is).	dedicated	l to the well	l, outline	each and ide	entify the	ownership th	nercof (both as to wo	
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EIPEED NATURAL GAS COMPANY

Properties Properties of the P

Well Name Sunkay (#) A	•
Location NW 1 30-11	
Formation MV	
	•
We, the undersigned, have inspected this location	and road.
U. S. Forest Service	Date
Archaçologist	10/11/79 Date
Bureau of Indian Affairs Representative Bureau of Land Management Representative	Date 10/11/19
andrew Storm	Date
U. S. Geological Survey Representative - AGREES TO THE FOOTAGE LOCATION OF THIS WELL. REASON:	Date
Seed Mixture:	
Equipment Color: SKOWN	
Road and Row: (Same) or (Separate)	•
Remarks:	

C.C. to Dave Vilvin
Earl Mealer
John Ahlm



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401 PHONE: 505-325-2841

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Multi-Point Surface Use Plan

Sunray C #1A

- 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. Pranned 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 hills with pinon, sage, juniper 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 C #1A

I. Location: 1120'N, 790'W, Section 1, T-30-N, R-11-W, San Juan County, NM

Field: Blanco Mesa Verde Elevation: 5952 GR

II. Geology:

O K. F:	urface Nac jo Alamo irtland ruitland ic.Cliffs	1258' 2204'	Lewis Mesa Verde Menefee Point Lookout Total Depth	2702' 4171' 4334' 4792' 5240'
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- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4160', 4325', 4780' 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 2902'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:	Hole Size	Depth 200'	Casing Size	Wt.&Grade
		13 3/4"	200	9 5/8"	36.0 # H-40
		8 3/4"	2902 '	7"	20.0# K-55
		6 1/4"	2752-5240'	4 1/2"	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 flapper type float collar
- C. Tubing: 5240' 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.

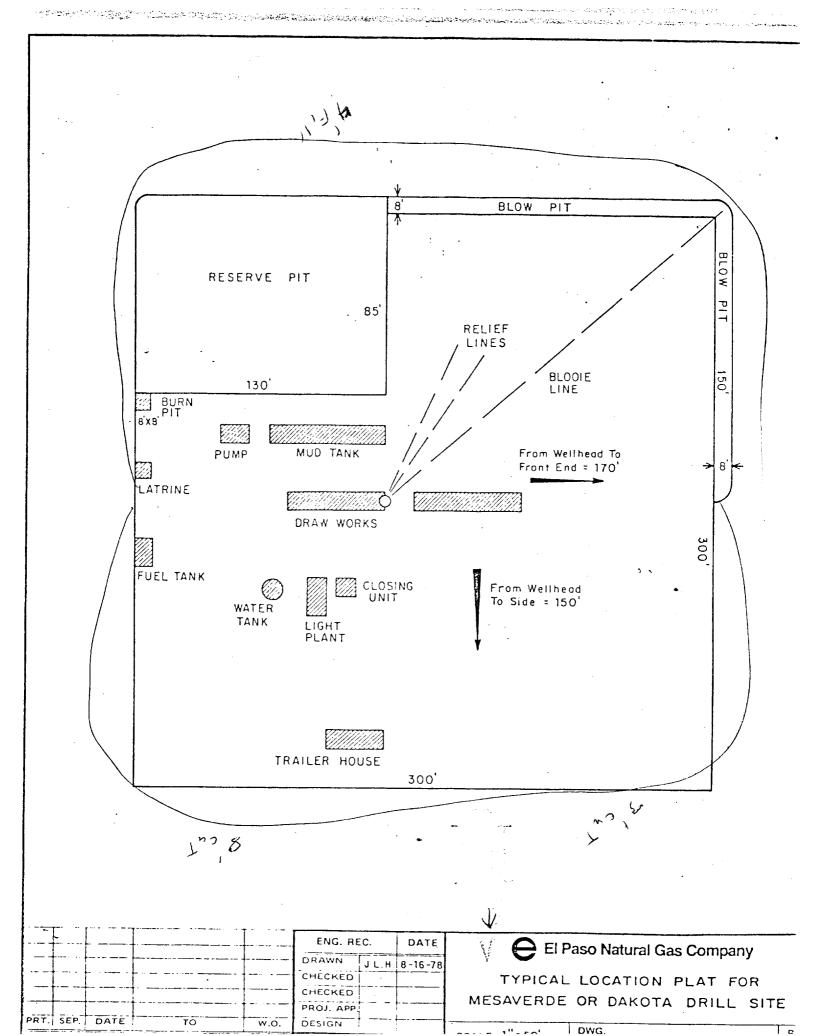
Operations Plan - Sunray C #1A

V. Cementing:

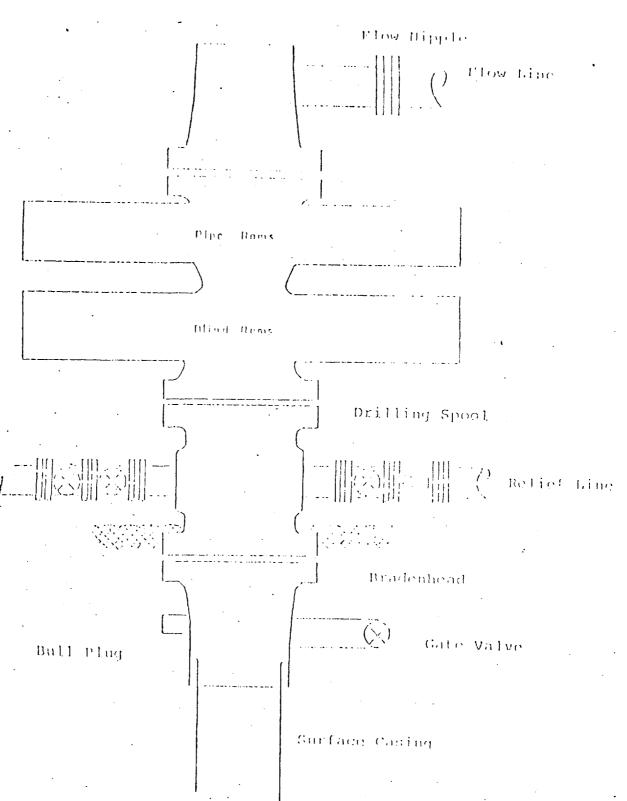
9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 185 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 (418 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.

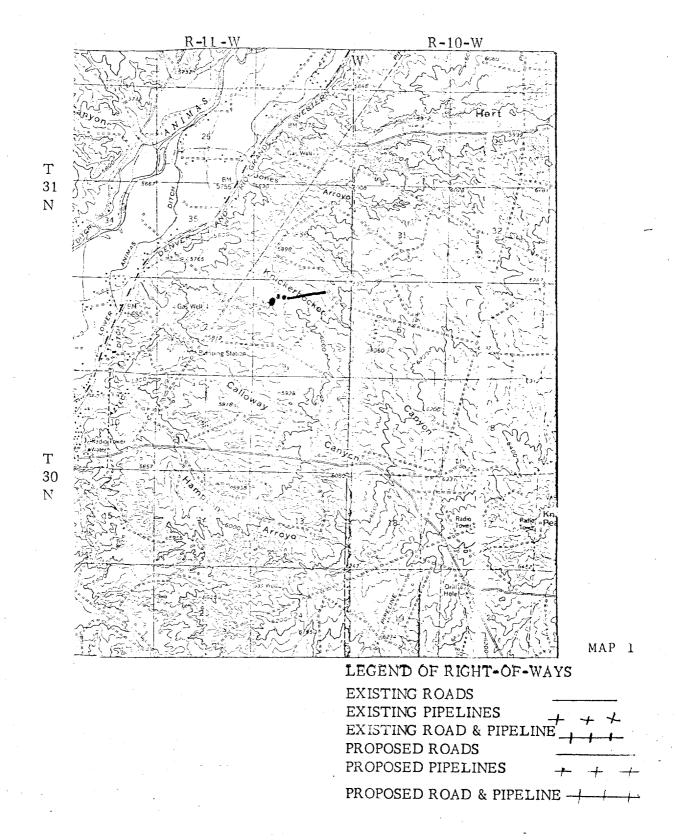
4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 315 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (438 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



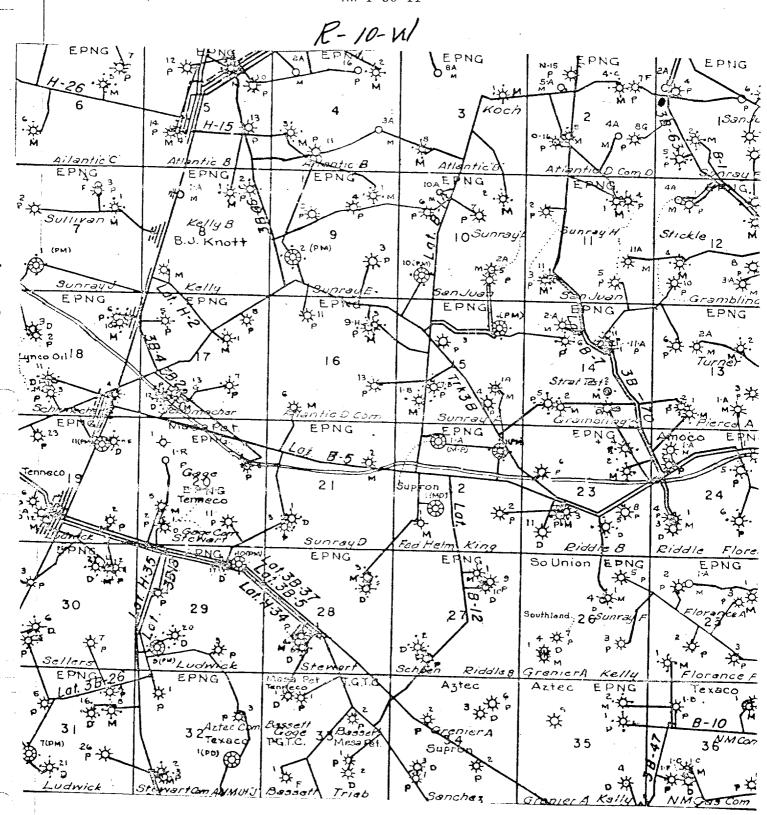
Typical W.O.t. Installation for Mesa Verde Well



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 Gas Company Sunray C #1A NW 1-30-11



MAP 2