SUBMIT IN TRIPLICATE*

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Form approved. Budget Bureau No. 42-R1425.

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UNITI	ED S	STAT	ES
DEPARTMENT	OF	THE	INTERIO

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and the state of	5 · 1 · 4.	A	1.1

GEOLOGICAL SURVEY					507	AND SERIAL NO.	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						OR THIBE NAME	_
1a. TYPE OF WORK DRILL X	DEEPEN	PLUG BA		7. FNIT	REEMENT N	AME	
b. TYPE OF WELL	DEEPEN _	PLUG BA					
OIL GAS WELL OTHER 2. NAME OF OPERATOR		INGLE MULTIP	LE _	-	LEASE NAM	IE .	_
				9. WELL	Y H		
El Paso Natural Gas Co	Jupany						
PO Box 289, Farmington	n, NM 87401			10. FIELD	IND POOL, O	R WILLCAT	-
4. LOCATION OF WELL (Report location clearly and	l in accordance with any S	State requirements.*)				a Verde	
At surface 1155'N, 1	790'W			11. SEC.,	R. M., OR B	LK.	_
At proposed prod. zone					1 T-3	D-N,R-10	-W
same				NMPM	/ 1 3	3 11/11 10	''
14. DISTANCE IN MILES AND DIRECTION FROM NEA	REST TOWN OR POST OFFIC	E*			OR PARISH	13. STATE	-
8 miles East of Aztec	, NM			San	uan	NM	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST		O. OF ACRES IN LEASE	17. No. 0	OF ACRES AS	: IGN ED		-
PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	850 ' 2 475	5 98 2150.21	10.1	IIIS WELL	x d	313.10	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED,	. 1	ROPOSED DEPTH	1	RY OF CABI	TOOLS		
OR APPLIED FOR, ON THIS LEASE, FT.	1500	5975 '	Rota	CY			
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6627 GL				22. APT.	DX. DATE WO	RK WILL START*	-
23.	PROPOSED CASING ANI	D CEMENTING PROGRA	AM				-
SIZE OF HOLE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	<u> </u>	QUAN:	TTY OF CEMEN	T	-
13 3/4" 9 5/8"	36.0#	200'	224		to ci	culate	-
8 3/4" 7"	20.0#	3710'				er Djo A	
ADDITIONAL WELL NEEDED PURSUAN U.S.C.S. RATIFICATION DATE FLERO, Selectively perforate	T TO NEW MEXICO OR BK: 22, 1979.		1			mation.	
A 3000 psi WP and 6000 blind and pipe rams wi) psi test do ill be used f	uble gate pro or blow out p	evente prever	er equ ntion	pped v	vita	<u> </u>
This gas is dedicated.							413.00
The N/2 of Section 11	is dedicated	to this well	1.		Je De	:	
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If zone. If proposal is to drill or deepen direction preventer program, if any.	proposal is to deepen or pally, give pertinent data of	olug back, give data on pon subsurface locations as	resent prod nd measure	ductive zone	ind proposed rical death	d new produ ctiv s. G ve blowou	e it
24. A B 3							-
SIGNED D. J. Huse	U	Drilling	Clerk	DA	13 <u>11 = 2</u>	2 7- 79	
(This space for Federal or State office use)	The state of the s				· · · · · · · · · · · · · · · · · · ·		=
PERMIT NO.		APPROVAL DATE					
APPROVED BYCONDITIONS OF APPROVAL, IF ANY :	TITLE			DA	18		-

*See Instructions On Reverse Side

of Fresh NMOCO

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

P. O. BOX 2088 ENERGY AND MINERALS DEPARTMENT . SANTA FE, NEW MEXICO 87501

Form C-102 Related 10-1-78

		All distances must be fr	om the cuter hou	underles of the Section	1.	
Operator			Lease		(Weil No.
EL PASO NAT	TPAL GAS CON	PANY	SUMBAY	ици	(NM-0607)	1-0
Unit Letter	Section	Township	Range	County		
С	11	30N	10.1	S	an Juan	
Actual Footage Loc	ation of Weil:		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
1155		North line and	1790	feet from the	West	line
Ground Level Elev.	Producing Fa		Poci	reet nom the		ated Acresije:
6627			1	ANCO MESA VER		212 20
0.05 1	Mesa	Verde	1 101	MICO AGGIA ODINA	JE	313.10 - Acres
1. Outline th	e acreage dedic	ated to the subject w	ell by colore	d pencil or hachur	e marks on the pla	t below.
	ian one lease is id royalty).	s dedicated to the we	ll, outline eac	ch and identify the	ownership thereo	f (both as to working
	•	different ownership is unitization, force-pool		the well, have the	interests of all o	owners been consoli-
∑ Yes		answer is "yes," type	_	ion		
If answer		e owners and tract des			een consolidated.	(Use reverse side of
	f necessary.)					
No allowa	ble will be assig	med to the well until a	ll interests ha	ive been consolida	ated (by communi	tization. unitization.
		e) or until a non-standa			•	
_	img, or otherwise	c) or until a non-standa	iu unit, eman	nating such interes	sts, has been appr	oved by the Commis-
sion.				and the same of th	7	
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PLO BOX 980 FARMINGT JN, NEW MEXICO B7401 PHONE: 50%325/2841

Multi-Point Surface Use Plan

A CONTROL OF THE PROPERTY OF T

Sunray H #1A

- 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 of 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 Knockerbocker 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 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 H #1A

I. Location: 1155'N, 1790'W, Section 11, T-30-N, R-10-W, San Juan County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 6627'GL

II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Lewis	3513 '
		•	Ojo Alamo	2057'	Mesa Verde	4920
			Kirtland	2096 '	Menefee	5120 '
			Fruitland	2942'	Point Lookout	5527
			Pic.Cliffs	3315'	Total Depth	5975 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4910', 5110', 5515' 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 3710'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
	5 2	13 3/4"	200'	9 5/8"	36.0 # H - 40
		8 3/4"	3710 '	7"	20.0# K-55
		6 1/4"	3560-5975 '	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-fall 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: 5975' 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.

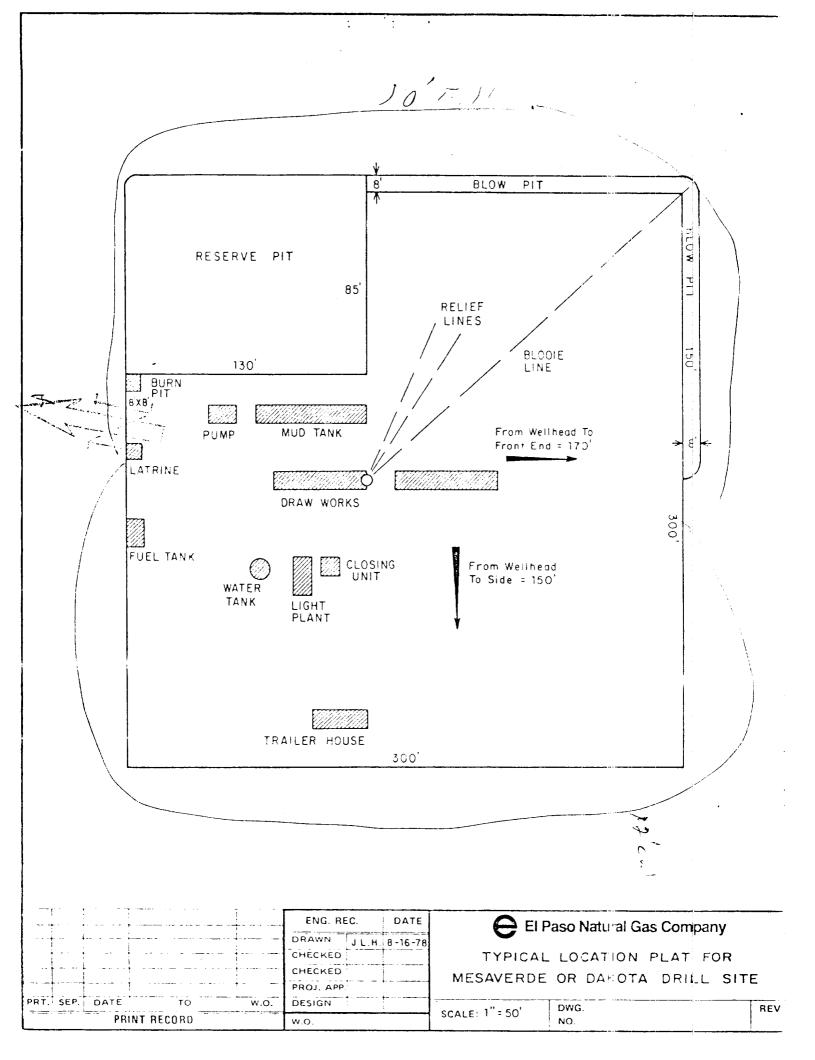
Operations Plan - Sunray H #1A

V. Cementing:

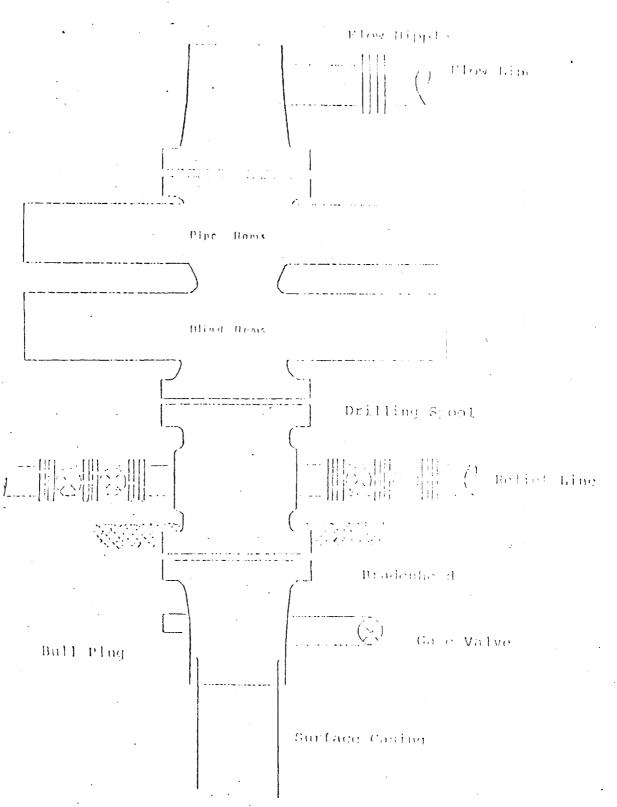
9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 157 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 (373 cl.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 303sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (421 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

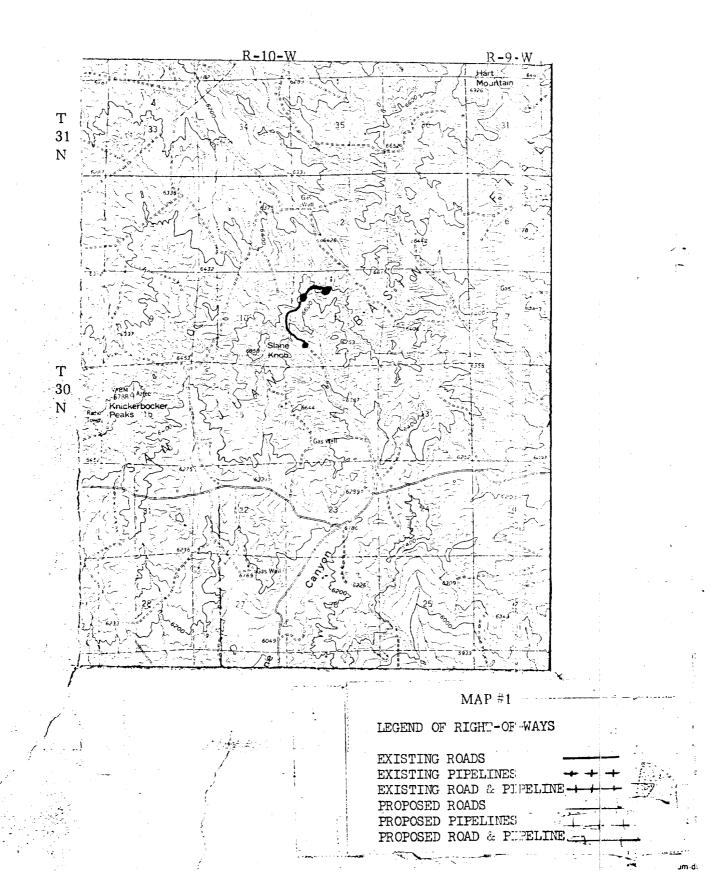


Typical, W.Ost - Englate Lation for Mega Verde Well



Series 900 Double Gate BOP, rated at 3000 psi Working Pressure When gas drilling operations begin a Shaffer type 30 or equivalent rotating head is installed on top of (1) flow nipple and the flow line is converted into a blowle line

EL PASO NATURAL GAS COMPANY Sunray H #1A NW 11-30-10



EL PASO NATURAL GAS COMPANY Sunray H #1A NW 11-30-10

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MAP #2 Proposed Location