SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

UNITED STATES
DEPARTMENT OF THE INTERIOR

Form approved. Budget Bureau No. 42-R1425.

	DEPARTMEN	IT OF THE		DIAD	reverse s	ide)	30-039-2211	
		NI UF ITE OGICAL SURV		RIUR			5. LEASE DESIGNATION AND SERIAL NO.	
A PRI ICATIO	· · · · · · · · · · · · · · · · · · ·			ENL OD I) A CI/	SF 080670 6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
a. TYPE OF WORK	N FOR PERMIT	TO DRILL,	DEEP	EN, OK I	LUG E	BACK		
	RILL 🛅	DEEPEN		PL	UG BA	CK 🗌	7. UNIT AGREEMENT NAME	
b. TYPE OF WELL OIL GAS X SINGLE V MELTIPLE C			San Juan 27-4 Unit					
NAME OF OPERATOR	WELL 1 OTHER		z	ONE AL	ZONE		8. FARM OR LEASE NAME San Juan 27-4 Unit	
El Paso Na	tural Gas Co	mpany					9. WELL NO.	
3. ADDRESS OF OPERATOR						136		
PO Box 289, Farmington, NM 87401					10. FIELD AND POOL, OR WILDCAT			
At surface 1190'S, 1550'W						Blanco Mesa Verde		
At proposed prod. zo	-						11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
ne proposed prod. 20	same						Sec.32,T-27-N,R-4-W	
DISTANCE IN MILES	AND DIRECTION FROM NE	AREST TOWN OR PO	ST OFFIC	E+			12. COUNTY OR PARISH 13. STATE	
12 miles s	outhwest of	Gobernado					Rio Arriba NM	
LOCATION TO NEARE PROPERTY OR LEASE	ST	1000	16. N	O. OF ACRES IN	LEASE		OF ACRES ASSIGNED.	
(Also to nearest dr	lg. unit line, if any)	1090'	10 -	unit		w(320.00		
TO NEAREST WELL, OR APPLIED FOR, ON T	DRILLING, COMPLETED.	500 '	19. Pi	6505'	•	20. ROTARY OR CABLE TOOLS ROtary		
	hether DF, RT, GR, etc.)	300				procar.	22. APPROX. DATE WORK WILL START*	
7112'GL								
		PROPOSED CASI	NG ANI	CEMENTING	G PROGRA	M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	COT	SETTING I	DEPTH		QUANTITY OF CEMENT	
13 3/4"	9 5/8"	32.3#		200	!	224 c	u.ft. to circulate	
8 3/4" 6 1/4"	7" 4 1/2"line			4220'		165_c	u.ft.to cover Ojo Al	
, -	1/2	er 10.5#		070'-65	703	425 6	u.ft.to fill to 4070	
C-1	<i>-</i>			_				
perectiver	y periorate a	and sandwa	iter	fractur	e the	Mesa	Verde formation.	
A 3000 psi	WP and 6000	psi test	doul	ole gat ϵ	e prev	enter	equipped with	
blind and p	pipe rams wil	ll be used	l for	: blow c	out pr	event:	ion or this well.	
•							CAS HIVEN	
This gas is	s dedicated.						/ NLLL	
-1120 940 1	o acarcacca.						JUL 1 11979	
m) /o o							OIL CON. COM.	
	Section 32 i					~	DIST. 3	
e. II brohozat iz fo	arm or deepen direction	proposal is to deep ally, give pertinent	en or p t data o	lug back, give n subsurface lo	data on pro ocations and	esent produ d measured	active zone and proposed rew productive and true verticar depths. Give blowout	
venter program, if an	ly.							
N. 9	J. Busco)						
SIGNED /	· susci	TIT	ile	Drill	ing C	lerk	DATE 7-5-79	
(This space for Fede	eral or State office use)							
PERMIT NO APPROVAL DATE								
			_					
APPROVED BYCONDITIONS OF APPROV	AL, IF ANY:	TIT	LE			<u>}</u>	DATE	
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of Sna	h	•				ć	ent on 1879 han	
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P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

All distances must be from the outer boundaries of the Section. Operator Leuse Well No. EL PASO NATURAL GAS COMPANY (SF-080670) SAN JUAN 27-L UNIT 136 Unit Letter Section Township County N · LW 27N Rio Arriba Actual Footage Location of Well: South 1550 Irel from the West line and Ground Level Elev. Producing Formation Dedicated Acreage: 7112 Blanco Mesa Verde Mesa Verde 320.00 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 Unitization] 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, climinating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information contoined herein is true and complete to the best of my knowledge and belief. None Drilling Position El Paso Natural SF-089670 Company July 5, 1979 Sec. 32 I hereby certify that the well location shown on this plat was platted from field notes of octual surveys made by me or under my supervision, and that the same Is true and correct to the best of my knowledge and belief. Date Surveyed Jyne 20. 1120 1660 1986 2310 1000



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

Multi-Point Surface Use Plan

San Juan 27-4 Unit #136

- 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 Companero Water Hole.
- 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 sagebrush flats with sagebrush and pinon growing. Deer and cattlé 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 San Juan 27-4 Unit #136

I. Location: 1190'S, 1550'W, Section 32, T-27-N, R-4-W, Rio Arriba County, NM

Field: Blanco Mesa Verde Elevation: 7112'GR

II. Geology:

A. Formation Tops:	Surface Sar	ı Jose	Lewis	4020'
	Ojo Alamo	3490 '	Mesa Verde	5570 '
	Kirtland	3540 '	Menefee	5680 '
	Fruitland	3620 '	Point Lookout	6052 '
	Pic.Cliffs	3885 '	Total Depth	6505 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5560', 5670', 6040' 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 4220'. 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"	4220'	7"	20.0# K-55
		6 1/4"	4070-6505'	4 1/2"	10.5# K-55

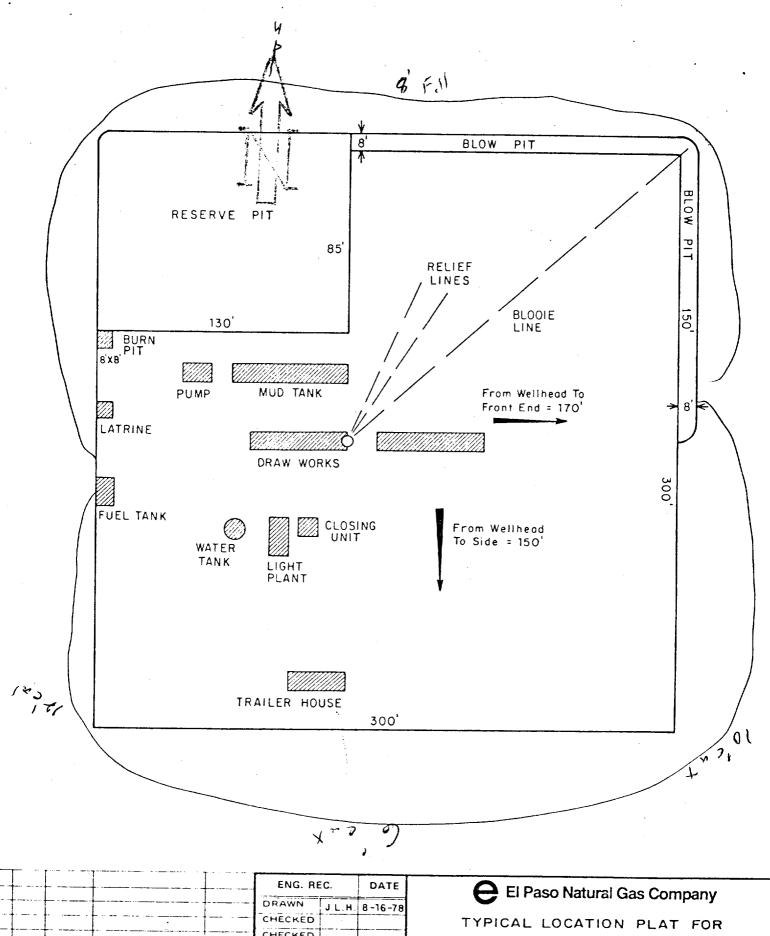
B. Float Equipment: 9 5/8" surface casing - B & W guide shoe
 (Prod. No. FC 06-09611-0200)

7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Howco self-fill insert float valve (Price Ref.36A&37), 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. Larkin geyser shoe (Fig. 222) and Larkin flapper type float collar(fig. 404 M&F).
- C. Tubing: 6505' 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# 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 30 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 (165 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 306 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (425 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



ENG. REC. DATE

DRAWN JL.H 8-16-78

CHECKED TO W.O. DESIGN

PRINT RECORD W.O. DESIGN

ENG. REC. DATE

DATE

TYPICAL LOCATION PLAT FOR

MESAVERDE OR DAKOTA DRILL SITE

SCALE: 1"=50' DWG.

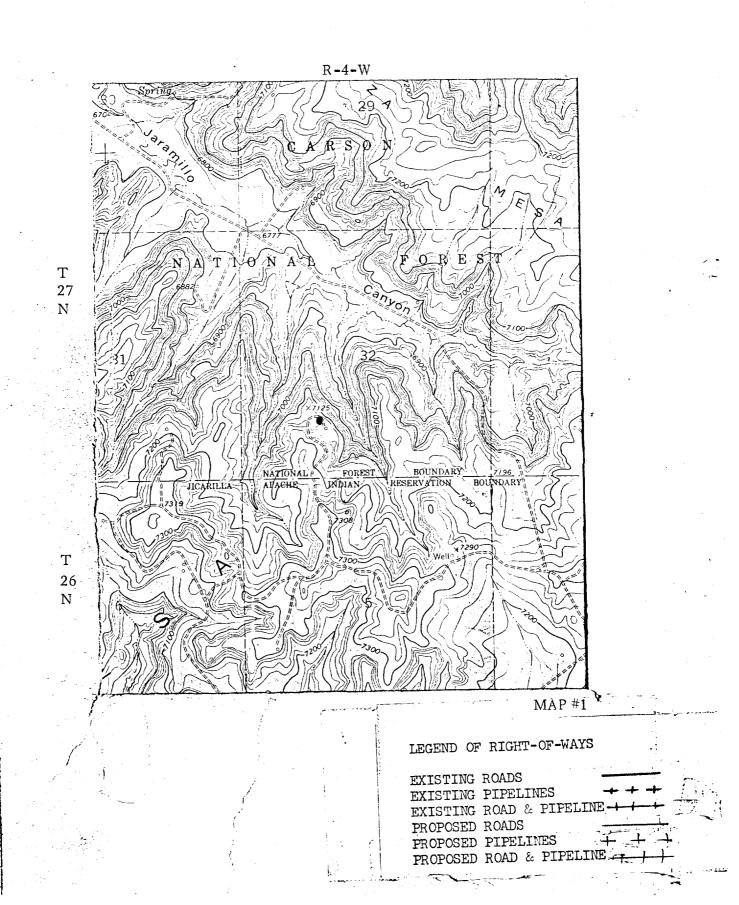
NO. REV.

Typical N.O.E - Installation for Mega Verde Well

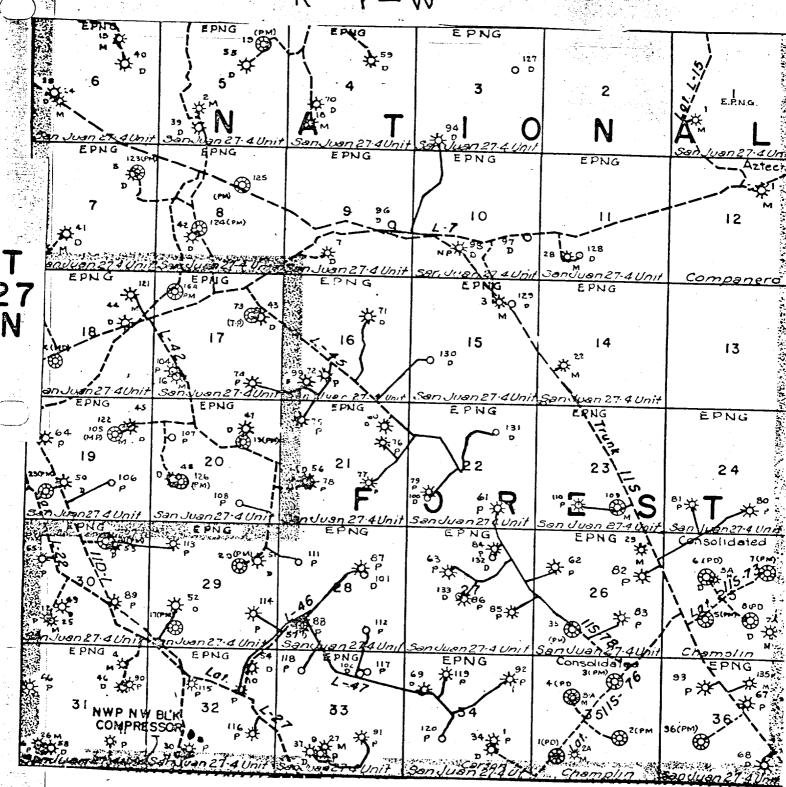
· · · · · · · · · · · · · · · · · · ·	Plow Hipple
	Cow Line
Plpc	floms
li lind	Rems
	Drilling Spool
	Relief Line
	Bradenhead
Bull Plug	Gate Valve
	Surface Casing

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 San Juan 27-4 Unit#136 SW 32-27-4



EL PASO NATURAL GAS COMPANY San Juan 27-4 Unit #136 - SW 32-27-4 R — 4 — \/



MAP #2 Proposed Location