SUBMIT IN TRIPLICATE*

(May 1963)	UNITED STATES UNITED STATES (Other instructions on reverse side) DEPARTMENT OF THE INTERIOR				Budget Bureau No. 42-R1425. 30-039-2193 5. LEASE DESIGNATION AND SERIAL NO.		
GEOLOGICAL SURVEY					SF 080713B		
APPLICATIO	ON FOR PERMIT	6. IF INDIAN, ALLOTTEE OR TRIBE NAME					
DRILL DEEPEN DEEPEN PLUG BACK DEEPEN						7. UNIT AGREEMENT NAME San Juan 30-6 Unit	
OIL U	GAS X OTHER		SINGLE ZONE	MULT:	IPLE	S. FARM OR LEASE NAME	
2. NAME OF OPERATOR	, ,					San Juan 30-6 Unit	
El Paso N	atural Gas Co	mpany				9. WELL NO.	
3. ADDRESS OF OPERATO			_			45A	
	0, Farmington	-				10. FIELD AND POOL, OR WILDCAT	
4. LOCATION OF WELL (At surface	Report location clearly an		th any State re	equirements.*)		Blanco Mesa Verde -	
-	1600'S, 9	90'E				11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
▲ At proposed prod. z						Sec.15,T-30-N,R-6-W	
14. DISTANCE IN MILES	SAME S AND DIRECTION FROM NE	AREST TOWN OR POS	T OFFICE*			NMPM 12. COUNTY OR PARISH 13. STATE	
24 MILES 1 15. DISTANCE FROM PRO	East of Blanc Posed*	O, NM	16. NO. OF A	CRES IN LEASE	17 NO (Rio Arriba NM OF ACRES ASSIGNED	
10. NO.						HIS WELL 320.00	
18. DISTANCE FROM PRO	OPOSED LOCATION* DRILLING, COMPLETED,		19. PROPOSEI	DEPTH	20. ROTA	BY OR CABLE TOOLS	
00001					Rota	ary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6399 GL						22. APPROX. DATE WORK WILL START*	
23.		PROPOSED CASI	NG AND CEM	ENTING PROGE	EAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F		ETTING DEPTH	1	QUANTITY OF CEMENT	
13 3/4"	9.5/8"	32.3#		200'	224		
8 3/4"	- 93/ 0	20.0#		3620'	1 '	cu.ft. to circulate cu.ft.to cover Ojo Ala	
6 1/4"					cu.ft.to fill to 3470'		
A 3000 psi	i WP and 6000	psi test	double	gate pre	venter	e Verde formation. The equipped with the cion on this well.	
This gas i	is dedicated.						

The E/2 of Section 15 is d	edicated	to this we	11.
N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposa one. If proposal is to drill or deepen directionally, giv reventer program, if any.	l is to deepen or p re pertinent data o	olug back, give data o n subsurface location	on present productive tone and proposed new productive is and measured and true vertical depths. Give blowout
signed M. M. Succes	TITLE	Drilli:	ng Clerk DATE 10-3-78
(This space for Federal or State office use)			
PERMIT NO.		APPROVAL DATE	RECEIVED
APPROVED BY	TITLE		DATE
CONDITIONS OF APPROVAL, IF ANY:			OCT 5 1978
on track			a projection SHRVEY

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY DURANGO, COLO.

		All distances must	he from the outer boundarie	s of the Section.	
Courater			Lease		Well 120.
FI. PASO NA	TURAL GAS COM	1PANV	SAN JUAN 30	-6 UNIT (SF-0807	13-B) 15A
That better	Le tran	Township			15 B/ 15A
			frange	County	
I	15	<u>3</u> 0N	6W	RIO ARRIBA	
A toal Footage Loc	ution of Well:				
1600	feet from the	South line	and 990	feet from the East	
Grand Lyvel Elev.	Producing Fo		Pool	not none the 13430	Dedicated Acreoger
i ·	1		1 '	Maga Wanda	
6399	Mesa V	erde	branco	Mesa Verde	320.00 Acros
1. Outline th	e acreage dedica	ated to the subjec	t well by colored peac	il or hachure marks on	the plut below
	Q · · ·		y water by volunted point	o. nachars marks on	the plat below.
2. It more th	ian one lease is	dedicated to the	well, outline each and	identify the ownership	thereof (both as to working
interest ar	nd royalty).				
	•				
3. If more tha	an one lease of a	lifferent ownershin	is dedicated to the wa	Il have the interests	of all owners been consoli-
				ir, have the interests	or all owners been conson-
uated by C		unitization, force-p	ooing, etc:		
X				Unitizatio	nn
Yes	No If a	nswer is "yes," ty	oe of consolidation	Unitizatio	· · · · · · · · · · · · · · · · · · ·
If answer	is "no," list the	owners and tract d	escriptions which have	e actually been concoli	dated. (Use reverse side of
this form i	f necessary.)			detuarry been consorr	dated. (tise reverse side of
	•				
No allowal	ole will be assign	ed to the well unti	all interests have bee	n consolidated (by co	mmunitization, unitization,
forced-poo	ling, or otherwise) or until a non-star	idard unit, eliminating .	such interests, has bee	n approved by the Commis-
sion.					a production of the second
	······································				
		17.03			CERTIFICATION
	1	KN FEE	∏ ı		CERTIFICATION
				KS	
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P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan San Juan 30-6 Unit #45A

- 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 San Juan 30-6 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 and cedar growing. 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.

D. C. Walker

Project Drilling Engineer

Operations Plan San Juan 30-6 Unit #45A

I. Location: 1600'S, 990'E, Section 15, T-30-N, R-6-W, Rio Arriba County, NM

Field: Blanco Mesa Verde Elevation: 6399'GR

II. <u>Geology</u>:

Α.	Formation Tops:	Surface	San Jose	Lewis	3420'
		Ojo Alamo	2335'	Mesa Verde	5160'
		Kirtland	2530 '	Menefee	5273'
		Fruitland	2970 '	Point Lookout	5540'
		Pic.Cliffs	3307 '	Total Depth	5990 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5150', 5263', 5530' 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 3620'. Gas from intermediate casing to Total Depth.

IV. Materials:

A. Ca	asing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
		13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3620 ·	7"	20.0# K-55
		6 1/4"	3470-5990'	4 1/2"	10.5# K-55

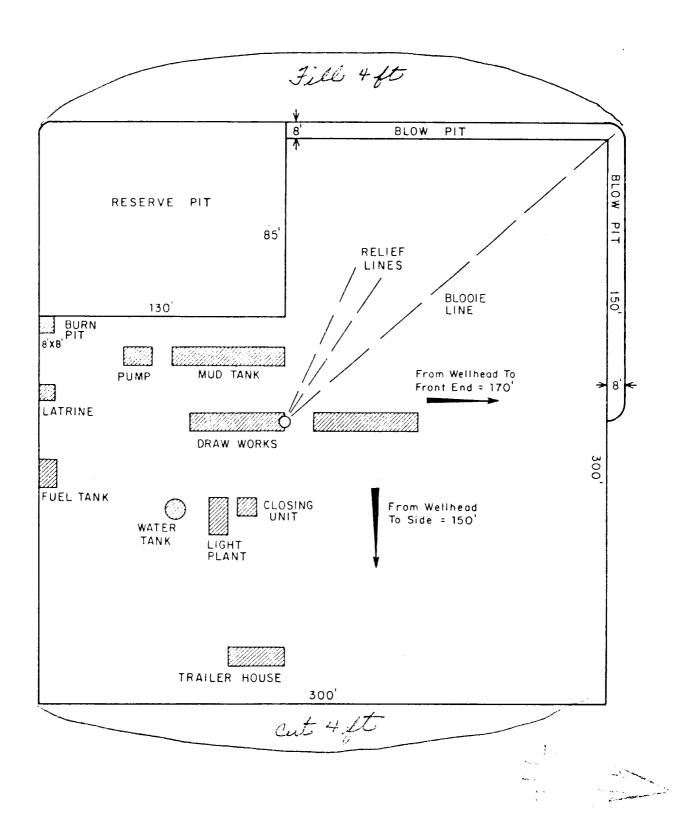
B. Float Equipment: 9 5/8" surface casing - Pathfinder guide shoe (Part #2006-1-012).

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: 5990' 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.

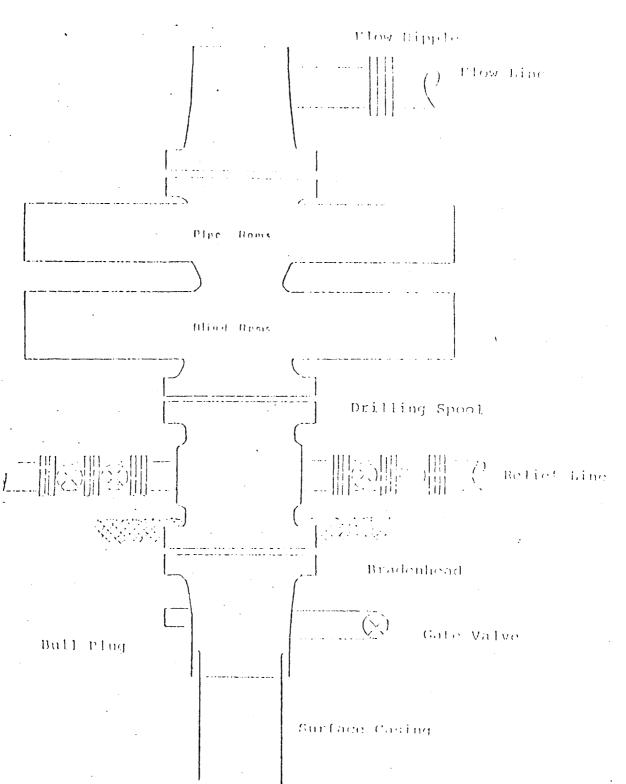
V. Cementing:

- 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 106 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 (290 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 316 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (440 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



				ENG. REC.	DATE	El Paso Natural Gas Company	
			.	DRAWN J.L.H	8-16-78		
			· • · · · · -	CHECKED	1	TYPICAL LOCATION PLAT FOR	
+ = 	- -			CHECKED		MESAVERDE OR DAKOTA DRILL SITE	
† • •	1		•	PROJ. APP.		MESAVERDE ON DAROTA DRIEE SI	1 5
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PRINT RECORD			WO.		SCALE: 1"= 50' DWG. NO.		

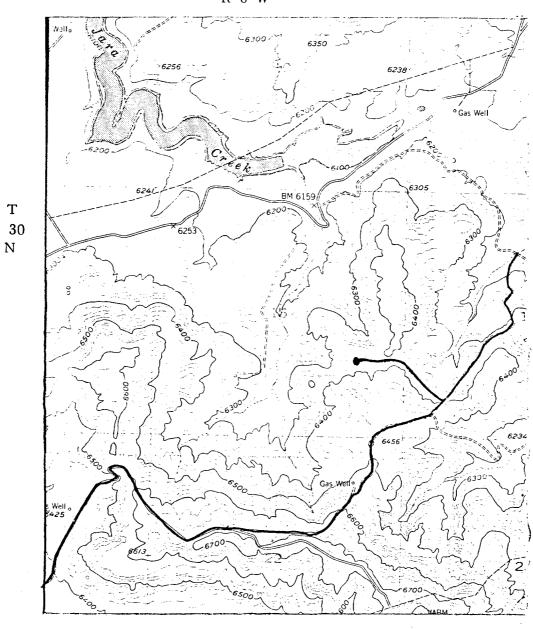
Typical B.O. t - Installation for Mesa Verde Well



Series 900 Double Gale 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 hipple and the flow line is converted into a blowie line

EL PASO NATURAL GAS COMPANY San Juan 30-6 #45 A SE 15-30-6



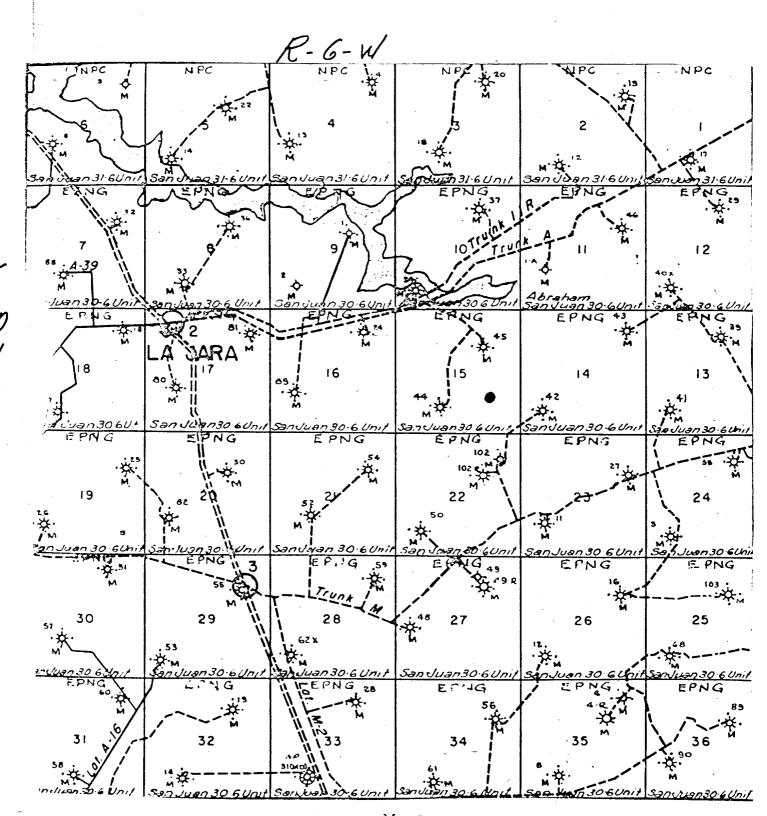


Map #1

LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	
EXISTING	PIPELINES	+++
EXISTING	ROAD & PIPELI	YE
PROPOSED	ROADS	
PROPOSED	PIPELINES	- + +
PROPOSED	ROAD & PIPELI	

EL PASO NATURAL GAS COMPANY San Juan 30-6 #45 A SE 15-30-6



Map #2 Proposed Location