SUMMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

30-039- ZZ373

DEPARTMENT	30-039- 62373				
	5. LEASE DESIGNATION AND SERIAL NO.				
GEOLO	SF 080674 6. IF INDIAN, ALLOTTEE OR TRIBE NAME				
APPLICATION FOR PERMIT 1	O DRILL, L	DEEL	EN, OR PLUG B	BACK	O. IT INDIAN, ALBOTTED OR TRIBE NAME
1a. TYPE OF WORK DRILL X	DEEPEN [7	PLUG BAG	~	7. UNIT AGREEMENT NAME
b. Type of well	San Juan 27-4 Unit				
OIL GAS WELL X OTHER			INGLE MULTIP	LE X	8. FARM OR LEASE NAME
2. NAME OF OPERATOR					San Juan 27-4 Unit
El Paso Natural Gas Co	mpany	ı~	ner a de la companya de compan		9. WELL NO.
3. ADDRESS OF OPERATOR			PECE		_138 (PM)
PO Box 289, Farmingtor	, NM 874		MECFIN	FD	Tapacito PC Ext.
4. LOCATION OF WELL (Report location clearly and At surface	in accordance wit	h any	State requirements.*)		1 # =
1120's, 18	300'E	-	APR 2 4 100	3.)	Blanco Mesa Verde 11. sec., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zone	_		U. S. Croins	- 0	Sec.16,T-27-N,R-4-W
same			THE PROPERTY OF	Univers	NMPM
14. DISTANCE IN MILES AND DIRECTION FROM NEAR			The same of the sa		12. COUNTY OR PARISH 13. STATE
8 miles southeast of G	obernado				Rio Arriba NM
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST	17001	16. No	O. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL
PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)	1120'		unit		1608 E/320.00
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED,	17001	19. PI	CC75	1	RY OR CABLE TOOLS
OR APPLIED FOR, ON THIS LEASE, FT.	1700'		6675'	Rota:	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7177 GL					22. APPROX. DATE WORK WILL START*
23.	ROPOSED CASIN	IG AN	D CEMENTING PROGRA	M	
SIZE OF HOLE SIZE OF CASING	WEIGHT PER FO	от	SETTING DEPTH	<u> </u>	QUANTITY OF CEMENT
13 3/4" 9 5/8"	36.0#		200'	224	cu.ft. to circulate
8 3/4" 7"	20.0#		4490'	1	cu.ft.to cover Ojo Alam
6 1/4" 4 1/2"line	r 10.5#		4340-6675'		cu.ft.to circ.liner
Selectively perforate Mesa Verde formations.		vate	r fracture t	he Pi	ctured Cliffs and
A 3000 psi WP and 6000 blind and pipe rams wi					
This gas is dedicated.				(0,,	JUN TEN STEEN
The E/2 of Section 16				•	CON 2 1980
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If zone. If proposal is to drill or deepen directions preventer program, Many.					

UNITED STATES

Drilling Clerk DATE __ (This space for Federal or State office use) APPROVED PERMIT NO. APPROVAL DATE AS AMENDED

APPROVED BY _ CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

NMOCC

DISTRICT ENGINEER

DRILLING OPERATIONS AUTHORIZED ARE THE FOT TO COMPLIANCE WITH ATTACHED

THE REQUIREMENTS"

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

All distances must be from the cuter houndaries of the Section

()			1.			
Operator EI, PASO NA	TURAL GAS CON	1PANY	SAN JUAN 27-4	UNIT (SF-08	0674)	Well No. 138
Unit Letter	Section	Township	Range	County		1 10
0	16	27N	LW	Rio Arriba	a	
Actual Footage Loc						
1120		South line and		t from the East		line
Ground Level Elev. 7177	MESA VER	mation PICTURED DE - CLIFFS	PoWAPACITO PICTU BLANCO ME			ated Acreage:
1. Outline in	e acreage dedica	ted to the subject w	ell by colored pencil o	r nachure marks o	n the pla	t below.
2. If more th	an one lease is	dedicated to the wel	l, outline each and ide	ntify the ownersh	ip thereo!	f (both as to working
interest an	id royalty).			•	•	
9 If		· · · · · · · · · · · · · · · · · · ·	1 16 . 1 . 1 . 1	1 .1	<i>c</i> ,,	
		ifferent ownership is initization, force-pool	dedicated to the well,	have the interests	ot all o	wners been consoli-
x	ommunitization, t	initization, force-poor		tization		
Yes Yes	☐ No If an	nswer is "yes," type o	of consolidation			
**						
If answer i	is "no," list the	owners and tract desc	riptions which have a	tually been conso	olidated.	(Use reverse side of
· ·	necessary.)	od to the well wetl of		1:7 . 7 /1	•	
forced-nool	ing or otherwise)	ed to the well until al or until a non-standar	l interests have been o d unit, eliminating suc	consolidated (by hinterests has b	communit	ization, unitization,
sion.	ing, or otherwise,	or antit a non-standar	a unit, criminating suc	n interests, has p	een appro	oved by the Commis-
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DECEMBER 1				Certific		
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EIPEED COMPANY

P. O. TONGTON, PH. 2779, Su. O. TIZANA. PARAMETERS, PH. 2779, Su. O. TIZANA. PARAMETERS, SUN CONTROLL.

Well Name San Jun 27-4 Unit 138	
Location SEIL 27-4	
Formation PC - MV	
	•
We, the undersigned, have inspected this location	and road.
U. S. Forest Service	3/26/80
	Date .
Archaeologist Vaylo	3/26/80
	Date
Bureau of Indian Affairs Representative	Date
Bureau of Land Management Representative	3/26/EC
U. S. Geological Survey Representative - AGREES TO THE FOOTAGE LOCATION OF THIS WELL.	Date /
REASON: Seed Mixture: Mixture # 3	
Equipment Color: Dein	·
Road and Row: (Same) or (Separate)	
Remarks:	•



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

Multi-Point Surface Use Plan San Juan 27-4 Unit #138

- 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 Campanero Water Well #1.
- 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 and juniper growing. Cattle, deer and elk 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. R. Read

Project Drilling Engineer

Operations Plan San Juan 27-4 Unit #138 (PM)

I. <u>Location</u>: 1120'S, 1800'E, Section 16, T-27-N, R-4-W, Rio Arriba County, NM Field: Blanco MV & Tapacito PC Elevation: 7177'

II. Geology:

Α.	A. Formation Tops:	Surface	San Jose	Lewis	4287 '
	-	Ojo Alamo	3490 '	Mesa Verde	5750 '
		Kirtland	3710 '	Menefee	5895 '
		Fruitland	3912 '	Point Lookout	6227 '
		Pic.Cliffs	4080'	Total Depth	6675 '

- B. Logging Program: GR-Ind. and GR-Density at TD and I-ES and GR-Density at 4490'
- C. Coring Program: none
- D. Natural Gauges: 5740', 5885', 6220' 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 4490'. 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"	36.0 K-55
			8 3/4"	4490'	7"	20.0# K-55
			6 1/4"	4340-6675'	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.

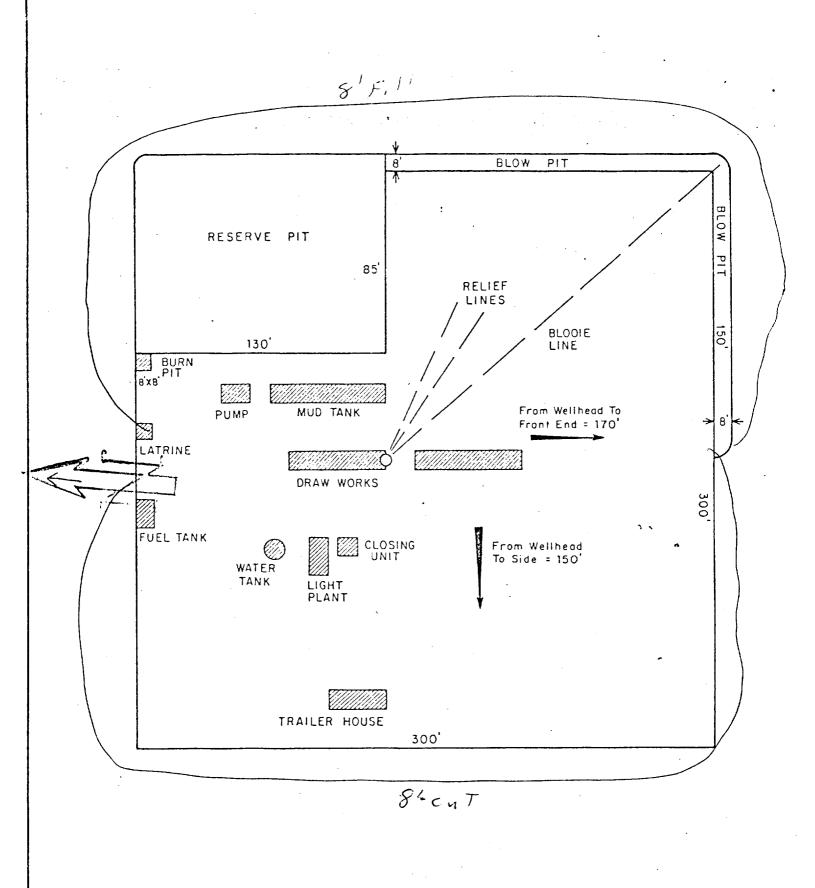
- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff and PBR. Geyser shoe and plug latch-in collar assembly.
- C. Tubing: 6675' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.
 4300' of 1 1/4", 2.3#, IJ tubing with a common pump seating nipple one joint above bottom.
- D. Wellhead Equipment: 10" 2000 x 9 5/8" casing head. 10" 2000 x 6" 2000 dual xmas tree.

V. Cementing:

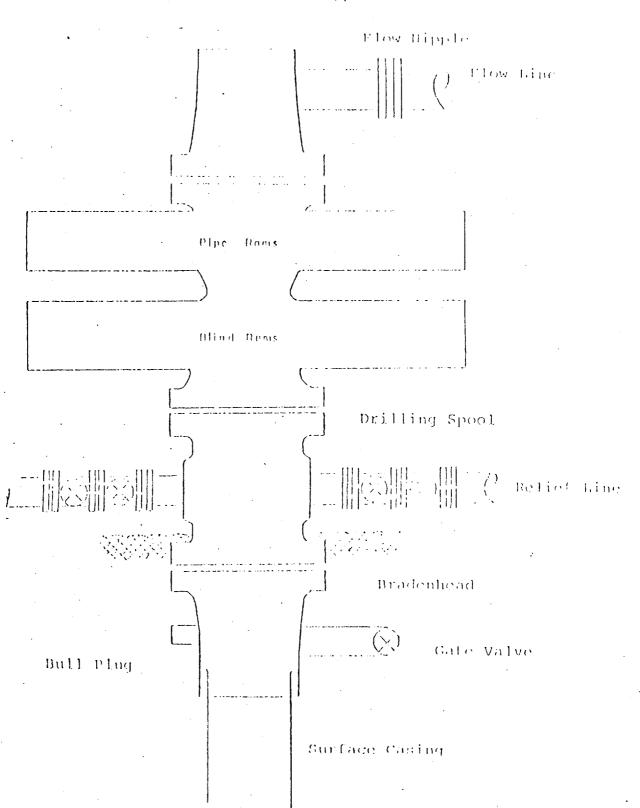
9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 66 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 (225 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 293 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (407 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

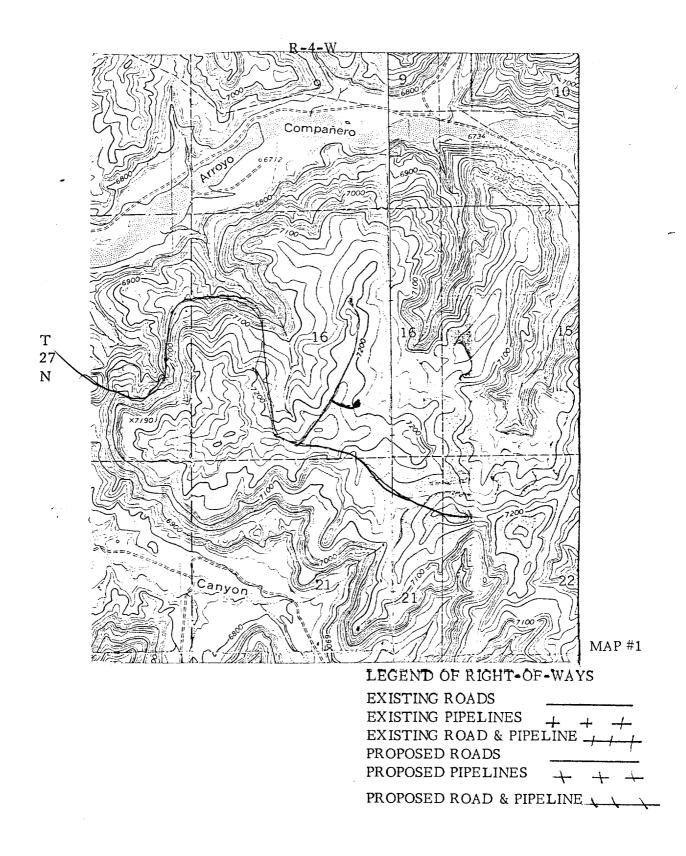


					ENG. REC.	DATE 8-16-78	El Paso Natural Gas Company	
					CHECKED CHECKED		TYPICAL LOCATION PLAT FOR MESAVERDE OR DAKOTA DRILL SITE	:
PRT.	SEP.	PRI	TO NT RECORD	w.o.	DESIGN W.O.		SCALE: 1"= 50' DWG.	RE



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 #138 (PM) SE 16-27-4



R-4-W

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	EPNO 6 M An Juan 27 Albrit	55 N N 27-4 Unit		127 0 0 3 3 94 0 35 Vuen 27 4 Unit	2 N	Sen Juan 27: 4 Unit
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MAP #2

Proposed Location