SUBMIT IN TRIPLICATE*

Form approved.

(Other instructions on reverse side)

Buaget	Bureau	No.	42-K1425.	
20 .	ads		2426	17

DEPARTMENT OF THE INTERIOR						5. LEASE DESIGNATION AND SERIAL NO.		
GEOLOGICAL SURVEY						SF 080376A		
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
1a. TYPE OF WORK DRI b. TYPE OF WELL	DRILL DEEPEN DEEPEN PLUG BACK					7. UNIT AGREEMENT NAME		
OIL GAS WELL WELL OTHER ZONE ZONE						8. FARM OR LEASE N	AME	
2. NAME OF OPERATOR			*	La San San Carlo		Sheets	·	
	atural Gas C	ompany	•			9. WELL NO.		
3. ADDRESS OF OPERATOR PO Box 28	9, Farmingto	n. NM 874	01	Fig. Sale		10. FIELD AND POOL	OR WILDCAT	
		d in accordance with	any S	tate requirements. SU		Blanco PC Ext. Basin Dakota 11. Sec. 7, R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zon	e			Manager and the second	MacDillian Edward Corporation of Springer (1999)	1	31-N,R-9-W	
14. DISTANCE IN MILES	AND DIRECTION FROM NE	AREST TOWN OR POST	OFFICI	C*		12. COUNTY OF PARIS	SH 13. STATE	
12 milos	northwest of	Abels Sto	re	NM		San Juan	NM	
12 miles 15. DISTANCE FROM PROPORTION TO NEAREST	DSED*	ADE 5 DCC	16. NO	OF ACRES IN LEASE		F ACRES ASSIGNED		
PROPERTY OR LEASE L	INE, FT.	1100'		320	158,8	3 2 159.82	& 318.02	
18. DISTANCE FROM PROP TO NEAREST WELL, D	OSED LOCATION*		19. PR	OPOSED DEPTH	20. пота	RY OR CABLE TOOLS		
OR APPLIED FOR, ON THE	IS LEASE, FT.	600		7611'	Rota			
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					22. APPROX. DATE	WORK WILL START*	
6191 ' GR		PROPOSED CASIN	G ANT	CEMENTING PROGRA	м			
	1				1			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OT	SETTING DEPTH		QUANTITY OF CEM		
13 3/4"	9 5/8"	36.0#		200'	1	cu.ft. to		
8 3/4"	7"	20.0#	1 6	3412' #3262-7611'	i	<pre>cu.ft.to cover Ojo Alamo cu.ft.to circ.liner</pre>		
6 1/4"	4 1/2 111	er 10.5#a1	L I • U	π 5202 / 011	750			
and Dakot	a formations	5.		er fracture t				
A 3000 ps blind and	si WP and 600 l pipe rams v	00 psi test vill be use	t dc ed f	ouble gate pr For blow out	event preve	er equipped ntion on the	nis well.	
This gas	is dedicated	i.				MELLIN	[6]	
IN ABOVE SPACE DESCRIBE	e proposed program: If drill or deepen direction	proposal is to deepe	en or p	d to this wel	esent prod	iucave oppe and prop	1980 COM• Dised new productive pass. Give blowout	
signed .	G Luice	, TITI	LE	Drilling	r Cler	CK DATE M	arch 26, 1980	
(This space for Fede	eral or State office use)							
PERMIT NO.		 		APPROVAL DATE				

UNITED STATES

oh Such

APPROVED BY _

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

P. O. BOX 2088

Form C-102 kertsed 10-1-78

ENERGY AND MINERALS DEPARTMENT SANTA FL. NEW MEXICO 87501

		All distances must be fr	on the cuter houndaries	of the Section	•
Cperator			Lease		Wall Ma
EL PASO NAT	URAL GAS COMP	ANY	SHEETS	(SF-080376-A)	Well No.
Unit Letter	Section	Township	Range	County	<u> </u>
0	28	31N	į .	•	
Actual Footage Loc		ــــــــــــــــــــــــــــــــــــــ	9W	San Juan	
1100	leet from the	South line md	1620		
Ground Level Elev.		mation PICTURED	1530	feet from the East	line
6191	DAKOTA			URED CLIFFS EXT.	Dedicated Acreage:
		- CLIFFS	PASIN	I DAKOTA	159.82 % 318.02 Acres
1. Outline the	e acreage dedica	ted to the subject we	ell by colored nenci	l or hachure marks on t	158.82
2. If more the interest an	an one lease is d royalty).	dedicated to the wel	l, outline each and i	dentify the ownership t	thereof (both as to working
3. If more that dated by co		ifferent ownership is a nitization, force-pooli swer is "yes," type o	ng. etc?		f all owners been consoli-
No allowabl	s "no;" list the onecessary.)le will be assigne	owners and tract desc	riptions which have	actually been consolid	munitization, unitization, approved by the Commis-
	1	2	1	7	CERTIFICATION
1	1.				
	1	•		I hereby	certify that the information con-
	1	4	<u>'</u>	E 1	
	ſ				rein is true and complete to the
	1	2 0 1	l •	best of m	knowledge and belief.
}	1				1. Dunen
	•			Name	
	- +	t			<u>.ng</u> Clerk
	E A		1	Position	ing cierk
	; {		į	El Pas	o Natural Gas Co.
	i		i	Company	
	1		i	March	26, 1980
	1 90	c.	i	Date	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 	<u>, 36</u>	× × × ×			
				XXX()	
3	į.	0.0			.]
A	t .	28	i	Threeby	certify that the well location
3	i		1		his plat was plotted from field
3	1	SF-080376-A	1		ic yal surveys made by me or
3	į	•	ı		
3			ļ.	1980	supervision, and that the same and correct to the best of my
3			!	DIST TO MAN OL	a correct to the best of my
\$	-+	- -		COV. COM	ong belief.
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1	i	1	0.1	and/or Land	
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] 	****				A A STANK
V-Y-7-7				Certificate N	. Kerr Jr.
330 660 90	1320 1650 1940	2310 2640 2000	1500 1000	3950	P. MENR.

EIPESD NATURAL GAS COMPANY

P.O. Resemble FARMURITE BESTS (CONTROL PHONE Substitutions)

Well Name Shorts #4	
Location $SE28 31-9$	
Formation $PC - OK$	
We, the undersigned, have inspected this location	and road.
U. S. Forest Service	Date
Archaeologist Foed	2/26/80 Date
Bureau of Indian Affairs Representative Bureau of Zand Management Representative	2/26/80 Date
U. S. Geological Survey Representative - AGREES TO THE FOOTAGE LOCATION OF THIS WELL. REASON:	2/26/80 Date
Seed Mixture:	
Equipment Color: OREEN	
Road and Row: (Same) or (Separate)	
Remarks:	
	-

C.C. to Dave Vilvin
Earl Mealer
John Ahlm



P. O. BOX 289 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan Sheets #4

- 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 Pump Wash Hole #2
- 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 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.

D. R. Read

Project Drilling Engineer

Operations Plan Sheets #4

I. Location: 1100'S, 1530'E, Section 28, T-31-N, R-9-W, San juan County, NM Field: Basin Dakota-Blanco PC Ext. Elevation: 6191'GR

II. Geology:

Α.	Formation	Tops:	Surface	San	Jose	Menefee	4567
		-	Ojo Alamo		1727'	Point Lookout	5194'
			Kirtland		1792 '	Gallup	6544'
			Fruitland		2705 '	Greenhorn	7266'
			Pic.Cliffs	3	3016'	Graneros	7316'
			Lewis		3212'	Dakota	7462'
			Mesa Verde	9	4515'	Total Depth	7611 '

- B. Logging Program: GR-Ind. and GR-Density at total depth
- C. Coring Program: none
- D. Natural gauges: 4505', 4560', 5185' and at Total Depth.
 Also gauge any noticeable increase in gas. Record all gauges in
 morning report and daily drilling report.

III. Drilling:

A. Mud Program: mud from surface to 3412'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:	HolemSize	<u>Depth</u>	Csg.Size	Wt.&Grade
		13 3/4"	200'	9 5/8"	36.0# K-55
		8 3/4"	3412'	7"	20.0# K-55
		6 1/4"	3262-6500'	4 1/2"	10.5# K-55
		6 1/4"	7611'	4 1/2"	11.6# K-55

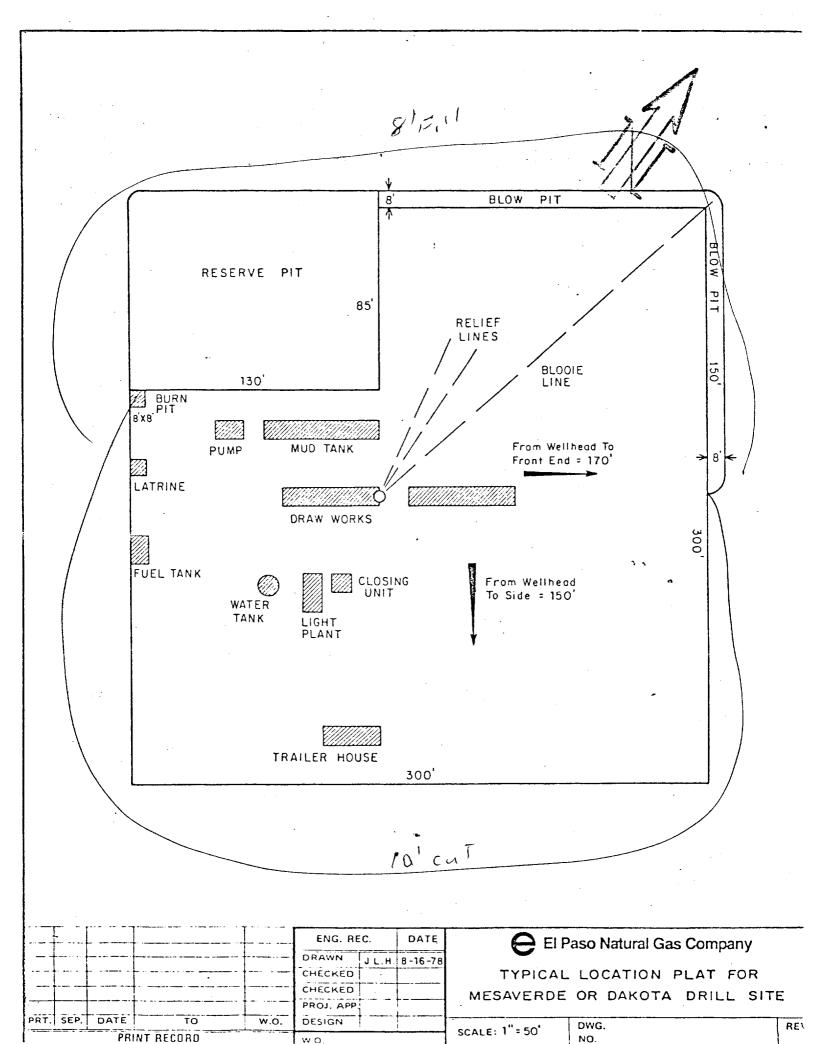
B. Float Equipment: 9 5/8" surface casing - Pathfinder Texas pattern
 guide shoe (Part No.2006-1-012)

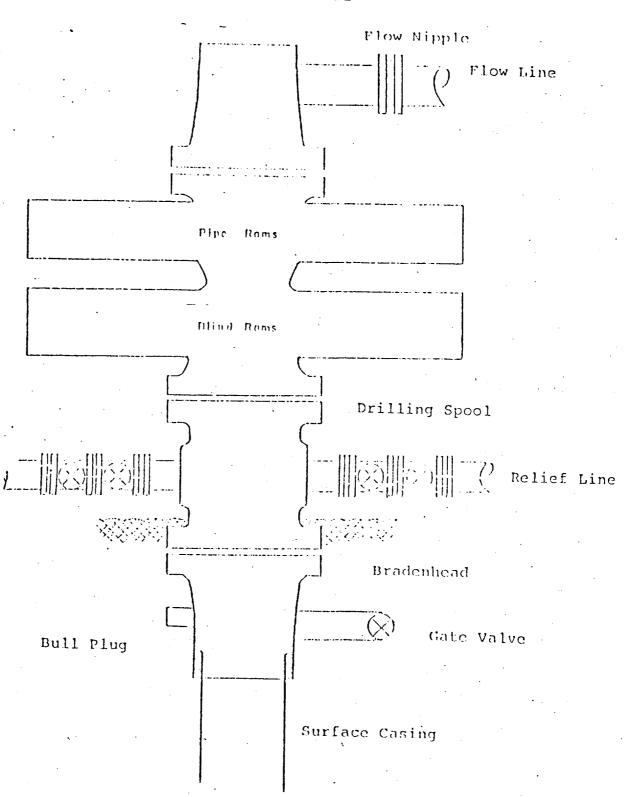
7" intermediate casing - Pathfinder guide shoe (Part.No.2003-1-007) and Howco self-fill insert float valve (Price Ref. 36A & 37) 5 Pathfinder stabilizers (Part.No.107-10) one every other joint above shoe. Run float two joints above shoe.

- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Geyser shoe and plug latch in collar assembly.
- C. Tubing 7611' of 1 1/2", 2.9#, J-55, lord EUE tubing with a common pump seating nipple above perforated pup joint with bull plugged full joint for mud anchor on bottom. 3412' of 1 1/4", 2.33#, J-55, lord IJ tubing.
- D. Wellhead Equipment: 3000 psi test tree. Wellhead representative to set all slips and cut off casing.

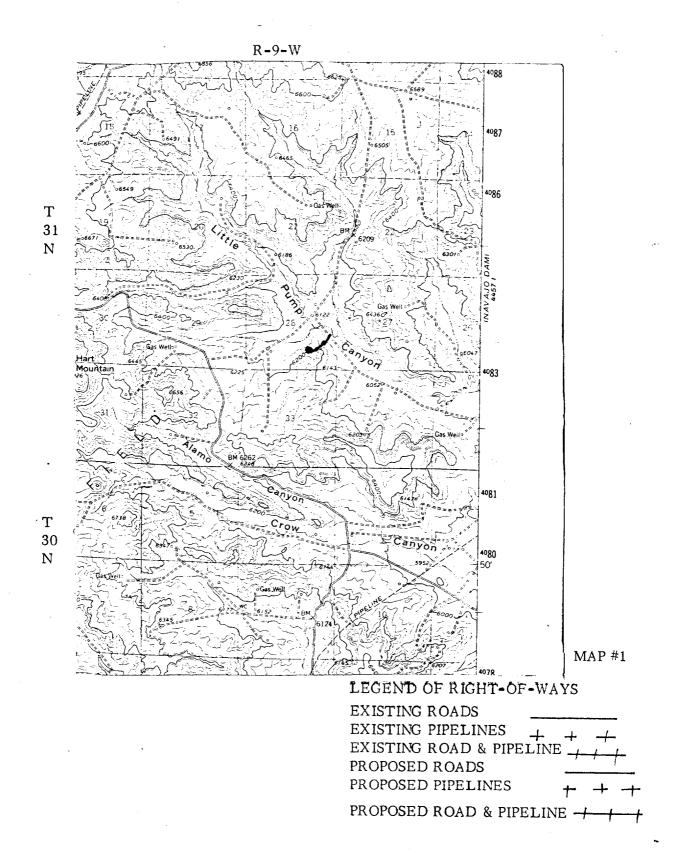
V. Cementing:

- 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 162 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 (380 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 40 bbls. of gel water (4 sks. gel) Cement with 290 sks. of Class "B" with 8% gel, 1/4 cu.ft. fine gilsonite per sack and 0.4% HR-7, followed by 100 sks. of Class "B" with 1/4# fine tuf-plug per sack and 0.4% HR-7 (758 cu.ft. of slurry, 50% excess to fill to intermediate casing). Run temperature survey at 8 hours. WOC 18 hours.





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
Sheets #
SE 28-31-9

So Union 3 EPNG 12 San Juan 32 9 Uni EPNG So. Union Allen Com. Seymour AΕ EPNG Sc. Union 21 22 23 24 So. Union 26 25 RiddleC EPNG Mesa Pet. 6-A 33 36 State Com

MAP #2

Proposed Location