SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

50 - 0 74 - 3 3 07 5. LEASE DESIGNATION AND SERIAL NO.

GEOLOGICAL SURVEY					SF 078389-A	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
b. TYPE OF WELL OIL GAWELL WELL 2. NAME OF OPERATOR	LLX OTHER	DEEPEN [PLUG BAC		7. UNIT AGREEMENT NAME San Juan 32-9 Unit 8. FARM OR LEASE NAME San Juan 32-9 Unit 9. WELL NO.
El Paso Nat	ural Gas Com	ipany				9. WELL NO. 91
	, Farmington,	NM 8740)1		ŀ	10. FIELD AND POOL, OR WILDCAT
PO Box 990, Farmington, NM 87401 4. Location of well (Report location clearly and in accordance with any State requirements.*) At surface 1100'S, 1500'E At proposed prod. zone						Blanco Pictured Clif 11. SEC., T., B., M., OR BLK. EXt. AND SURVEY OR AREA Sec. 11, T-31-N, R-10-W NMPM
	AND DIRECTION FROM NEAR		T OFFICE	.		12. COUNTY OR PARISH 13. STATE
15 MILES NI	E of Aztec, N	IM	1 16. NO	. OF ACRES IN LEASE	1 17 NO O	San Juan NM
LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	INE, FT.	1100'		Unit		158.90
18. DISTANCE FROM PROP- TO NEAREST WELL, DI OR APPLIED FOR, ON THI	RILLING, COMPLETED,	3015'	19. PR	OPOSED DEPTH 3185	20. ROTAR Rotar	Y OR CABLE TOOLS
21. ELEVATIONS (Show who	ther DF, RT, GR, etc.)				.'	22. APPROX, DATE WORK WILL START*
23.	F	PROPOSED CASIN	NG ANI	CEMENTING PROGRA	AM .	I
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	оот	SETTING DEPTH		QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#		120'		u.ft. to circulate
6 3/4"	2 7/8"	6.4#		3185'	332 C	u.ft.to cover Ojo Ala
Selectively	perforate a	nd sandwa	ater	fracture the	e Pict	ured Cliffs formation
						equipped with ion on this well.
This gas is dedicated.				May Madan the California of the 1.8		
The SE/4 of	Section 11	is dedica	ated	to this well	l.	*
	drill or deepen directiona					active zone and proposed new productive and true vertical depths. Give blowout
signed	D. Duis	2.) TIT	TLE	Drilling (Clerk	DATE January 16,197
(This space for Feder	ral or State office use)					
PERMIT NO.				APPROVAL DATE	······································	
APPROVED BY	AV VD ANV		LE			DATE

All distances must be from the outer boundaries of the Section.							
Cycrator EL PASO	NATURAL GAS C	OMPANY	SAN JUA	IN 32-9 U	NIT (S	F-078389-A) Well No. 91	
Unit Letter Secti	ion Town	iship	Range		County		
0	11	31-N		10-W		SAN JUAN	
Actual Footage Location of	of Well:						
1100 feet	from the SOU	TH line and	1500	fee	t from the	EAST line	
Ground Level Elev.	Producing Formation		Pool			Dedicated Acreage:	
6197	PICTURED	CLIFFS	BLANC	O PICTUR	ED CLIF	FS EXT. 158.90	Acres
1. Outline the acr	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 ☐	No If answer	is "yes," type o	f consolida	ition	Unit	ization	
If answer is ""	o" list the owner	es and tract desc	rintions wh	ich have ac		en consolidated. (Use reverse si	ء ۔ د
this form if nec		und tract desc	riptions wit	iion nave at	tually be	en consolidated. (Ose reverse sp	de oi
i	•	the well until al	interests !	have been o	one olidat	ed (by communitization, unitiza	A
						s, has been approved by the Con	
sion.	or otherwise, or un	tir a non standar	a unit, cim	mating suc	n meerest	s, has been approved by the Con	mus-
						1	
			1			CERTIFICATION	
			1				
	1		i			I hereby certify that the information	on-
	1		ı			tained herein is true and complete	to the
	i					best of my knowledge and belief.	
	1		1			Original Signed by	
	1		1			D. G. Brisco	
	+	_	i-			Nome	
	1					Drilling Clerk	
	1		1			Position	_
	1		; ;			El Paso Natural Gas	_Co.
	i		i			Company	
	i	_	1			January 16, 1978	
	i		1			Date	
	SI	ECTION 1	スス人				
	· 	N 3	~×-×-×			1	
	1	Kl	1			I hereby certify that the well loc	ation.
•		k1	1	* * * * * * * * * * * * * * * * * * * *		shown on this plat was platted from	
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	1	K	SF-0783	309-A	K	under my supervision, and that the	
	1	K			K	is true and correct to the best of	
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	i	N N	Y		K	Date Surveyed	
	i	- K			K	SEPTEMBER 28, 197	7
	1	K	700/		k	Registered Professional Engineer	
	İ	Ŋ	3 1			and/or-Land Surveyor	•
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P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan

San Juan 32-9 Unit #91

- 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 a water hole located at Hart Canyon 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 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 #2 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 gray.
- 11. Other Information The terrain is rolling hills and sagebrush flats covered with sagebrush. Cattle graze the proposed project site.

- 12. Operator's Representative W. D. Dawson, Post Office Box 990, Farmington, New Mexico 87401
- 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.

January 13, 1978

D. R. Read

Division Drilling Engineer

DRR:pb

Operations Plan - San Juan 32-9 Unit #91

I. Location: 1100'S, 1500'E, Section 11, T-31-N, R-10-W, San Juan County, NM

II. Geology:

A. Surface Formation: Nacimiento

Sub-surface Formation Tops:

Ojo Alamo	1375 '	Pictured Cliffs	2992 '
Kirtland	1472'	Lewis	3145'
Fruitland	2677'	Total Depth	3185'

- B. Logging Program: Induction Electric and Gamma Ray Density at TD.
- C. Coring: none
- D. Testing: none

III. Drilling:

A. Anticipated Starting Date and Duration of the Project:

1978 Drilling Program - approximately 4 days to complete.

B. Circulating Medium: Treated water and a low solids gel base mud will be used from surface to TD.

IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
		12 1/4"	120'	8 5/8"	24.0# J-55
		6 3/4"	3185'	2 7/8"	6.4# J-55

B. Float Equipment: 8 5/8" surface casing - cement guide shoe.

2 7/8" production casing - 10' shoe joint with notched collar for guide shoe and 2 7/8" latch down baffle on top. Two 3 1/16" balls and one 2 7/8" latch down plug.

- C. Tubing: none
- D. Wellhead Equipment: Larkin wellhead (fig. 75)

V. Cementing:

8 5/8" surface casing - 90 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (106 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing wellhead and BOP to 600#/ 30 minutes.

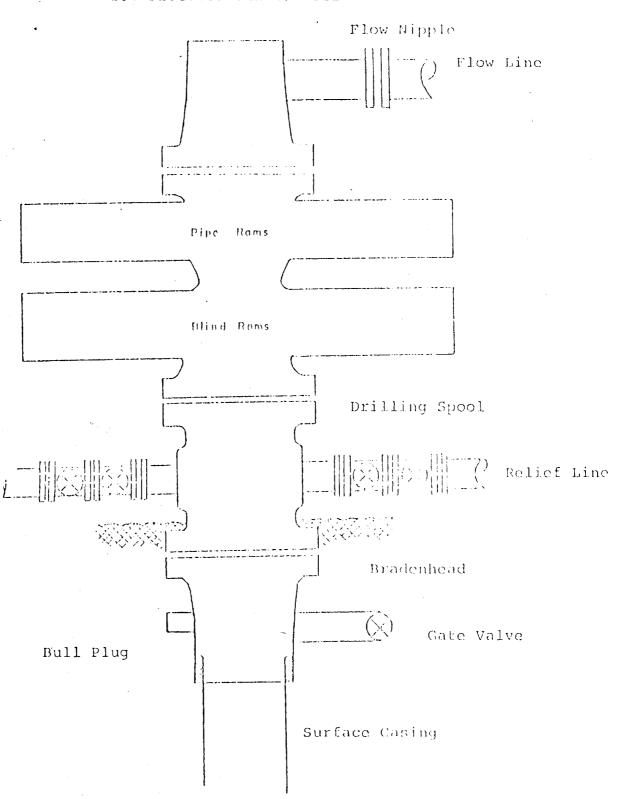
2 7/8" production - 304 sks. 65/35 Class "B" Poz with 12% gel and 15.52 gallons water per sack followed by 50 sks.Class "B" neat cement (552cu.ft. slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hrs

Typical Lication Plat for Patiend City

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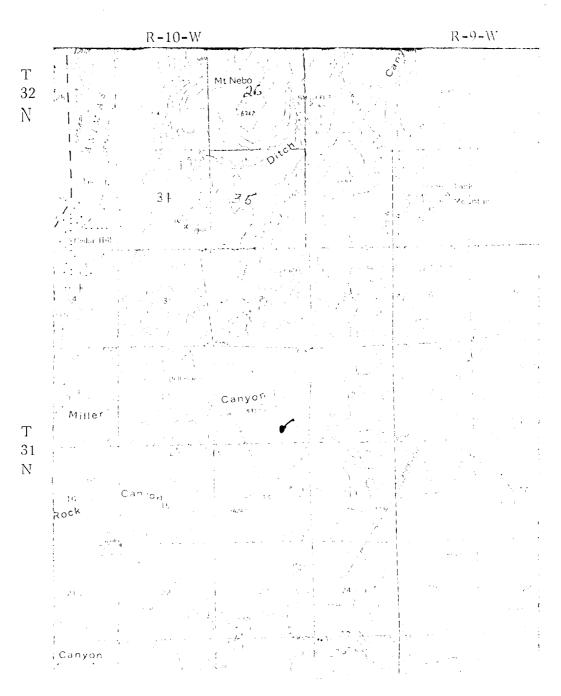
Soute : By The

Typical Mud Drilled B.O.P. Installation for Pictured Cliffs Well



8" Series 900 Double Gate BOP, rated at 3000 psi Working Pressure

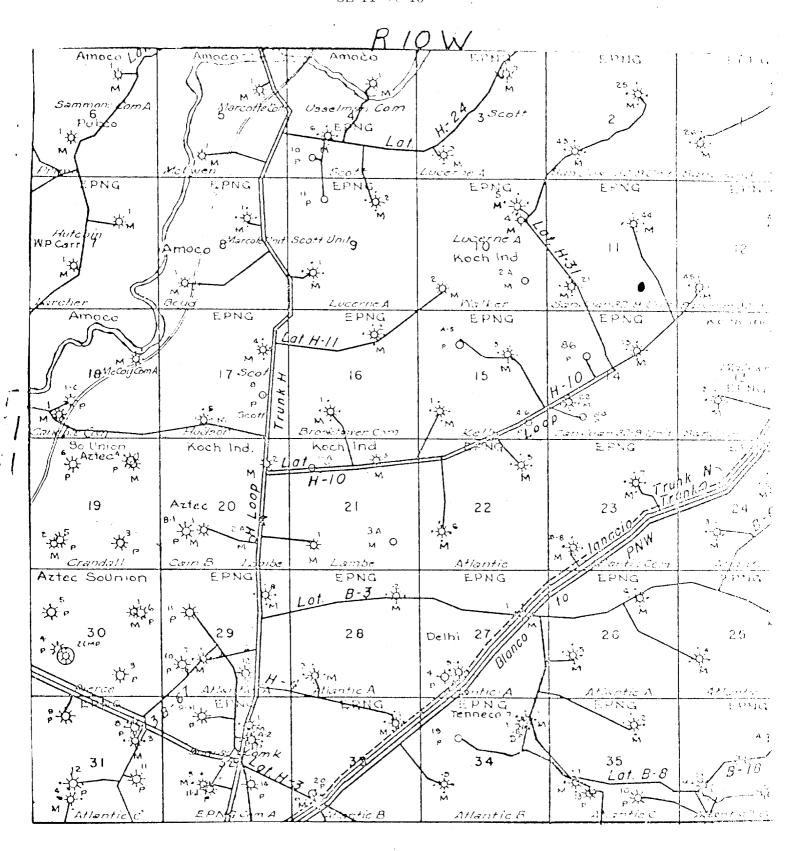
ET. PASO NATURAL GAS COMPANY San Juan 32-9 Unit #91 SE 11-31-10



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