SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

	DEPARTMENT	TED STATES		RIOR	e side)	5. LEASE DESIGNATION AND SERIAL NO.	
	GEOLO	GICAL SURVI	ΕY			SF 078389A	
APPLICATION	N FOR PERMIT	O DRILL, I	DEEP	EN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
b. TYPE OF WELL OIL GA WELL WI	LL A	DEEPEN [81	PLUG BA	CIPLE	7. UNIT AGREEMENT NAME San Juan 32-9 Unit 8. FARM OR LEASE NAME	
NAME OF OPERATOR El Paso Nat	San Juan 32-9 Unit						
ADDRESS OF OPERATOR						90	
PO Box 289,	10. FIELD AND POOL, OR WILDCAT						
At surface At proposed prod. zone	Blanco Pic.Cliffs 11. SEC., T., R., M., OR BLK. Sec. 11, T. 31-N, R-10						
DISTANCE IN MILES A	Same	PEST TOWN OF POS	T OFFIC	p\$		NMPM 12. COUNTY OR PARISH 13. STATE	
	orth of Aztec		i OFFIC.	•		San Juan NM	
D. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)					of acres assigned his well 136.40		
S. DISTANCE FROM PROPO TO NEAREST WELL, DR OR APPLIED FOR, ON THIS	RILLING, COMPLETED,	300'	19. PF	OPOSED DEPTH 3120'	20. Rota	ARY OR CABLE TOOLS	
ELEVATIONS (Show whe					1	22. APPROX. DATE WORK WILL START*	
•	F	PROPOSED CASIN	IG ANI	CEMENTING PROG	RAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	от	SETTING DEPTH	1	QUANTITY OF CEMENT	
12 1/4"	8 5/8"				1	cu.ft.to circulate	
· 1	0 3/ 0	24.0#		120	106 0	cu.ft.to circulate	
6 3/4"	2 7/8"	6.4#		3120'	3		
Selectively A 3000 psi	2 7/8" perforate a	6.4# nd sandwa	ter	3120' fracture th	525 ceventer	Cliffs formation. cequipped with the contract of the contract	
Selectively A 3000 psi	2 7/8" perforate a WP and 6000 pipe rams wil	6.4# nd sandwa	ter	3120' fracture th	525 c	Cliffs formation. cequipped with tion on this well.	
Selectively A 3000 psi blind and p This gas is	2 7/8" perforate a WP and 6000 pipe rams wil	6.4# nd sandwa psi test l be used	ter douk	3120' fracture the	525 de Pic.	Cliffs formation. cequipped with tion on this well.	
Selectively A 3000 psi blind and p This gas is The NW/4 of	2 7/8" perforate a WP and 6000 ipe rams wil dedicated. Section 11	6.4# nd sandwa psi test l be used is dedica	ter doul for	3120' fracture the property of this well to this well to the sale of the sale	525 ceventer prevent	Cliffs formation. cequipped with tion on this well.	
Selectively A 3000 psi blind and p This gas is The NW/4 of ABOVE SPACE DESCRIBE ne. If proposal is to deventer program, if any	2 7/8" perforate a WP and 6000 ipe rams wil dedicated. Section 11 PROPOSED PROGRAM: If p	6.4# nd sandwa psi test l be used is dedica proposal is to deep lly, give pertinent	ter doul for	3120' fracture the property of the gate property of the proper	525 cone Pic.	Cliffs formation. cliffs formation. cequipped with ion on this well. CV - 7 1978 CUCY - 7 1978 Cucy CCICAL SUFVEY ductive zone and proposed new productive d and true vertical depths. Give blowout	
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Selectively A 3000 psi blind and p This gas is The NW/4 of ABOVE SPACE DESCRIBE The If proposal is to deventer program, if any SIGNED (This space for Feder	perforate a WP and 6000 pipe rams will dedicated. Section 11 PROPOSED PROGRAM: If parill or deepen directiona	6.4# nd sandwa psi test l be used is dedica proposal is to deep lly, give pertinent	ter doul for	fracture the state of the gate property blow out property to this welling back, give data on a subsurface locations.	525 cone Pic.	Cliffs formation. cliffs format	

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section. Operator Lease Well No. EL PASO NATURAL GAS COMPANY SAN JUAN 32-9 UMIT (SF-078389-A) 90 Unit Letter Section Township County 11 . 31.N 10W San Juan Actual Footage Location of Well: Morth feet from the 1170 line and West line Ground Level Elev. Producing Formation Dedicated Acreage: 6119 PICTURED CLIFFS BLANCO PICTURED CLIFFS EXT. Acres 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 If answer is "yes," type of consolidation ____Unitization 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, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. HUZEN Name Drilling Clerk 1170' El Paso Natural Gas Co. November 6, 1978 SF-078389-A 11 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Registered Professi

1500

1320 1650

1980

2310



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

Multi-Point Surface Use Plan San Juan 32-9 Unit #90

- 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 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,

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 growing. Cattle 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 32-9 Unit #90

I. <u>Location:</u> 1620'N, 1170'W, Section 11, T-31-N, R-10-W, San Juan County, NM Field: Blanco Pictured Cliffs Ext. Elevation: 6149'GR

II. Geology:

A. Surface Formation: Nacimiento

Sub-surface Formation Tops:
Ojo Alamo 1400' Pictured Cliffs 2950'
Kirtland 1460' Lewis 3080'
Fruitland 2515' Total Depth 3120'

- 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:

1979 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:

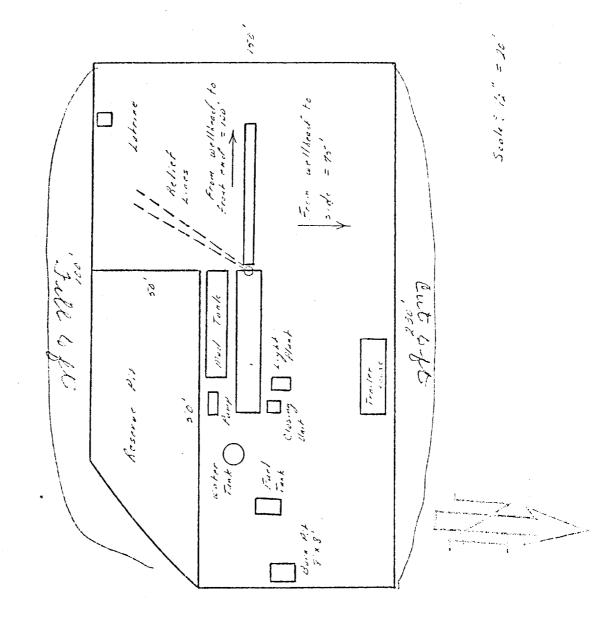
Α.	Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
		12 1/4"	120'	8 5/8"	24.0# J-55
		6 3/4"	3120 '	2 7/8"	6.4# J-55

- 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)

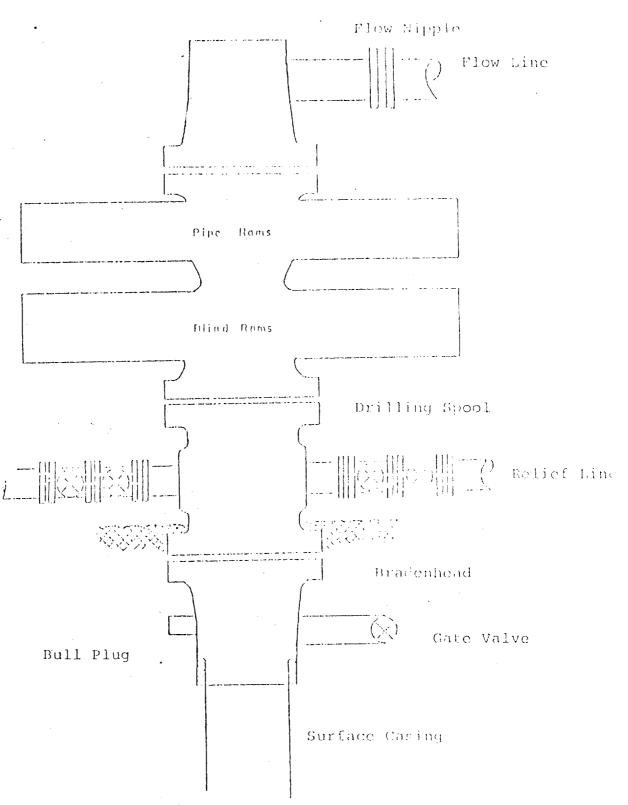
V. Cementing:

- 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 273 sks. 65/35 Class "B" Poz with 6% gel, 2% CaCl₂, and 8.3 gallons water per sack followed by 70 sks.Class "B" neat cement (525 cu.ft. slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hrs.

Typical Lucation Plat for Pictured Clist's Well

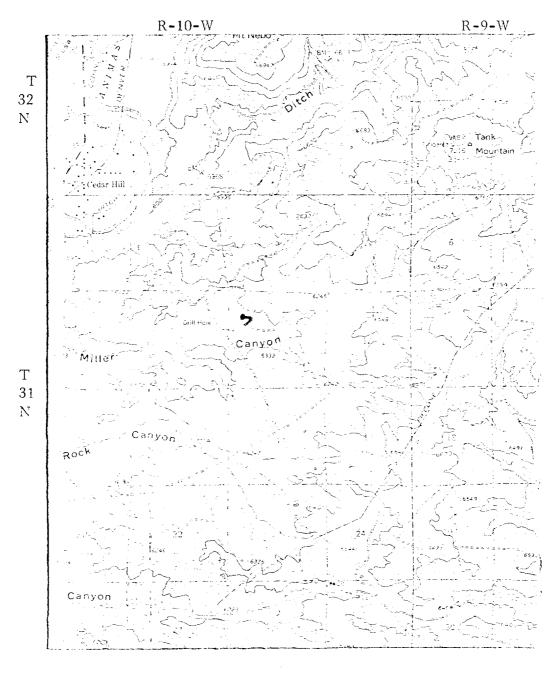


Typical And Drillel W.O.P. Installation for Pictured Cliffs Well



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

EL PASO NATUFAL GAS COMPANY San Juan 32-9 Unit #90 NW 11-31-10



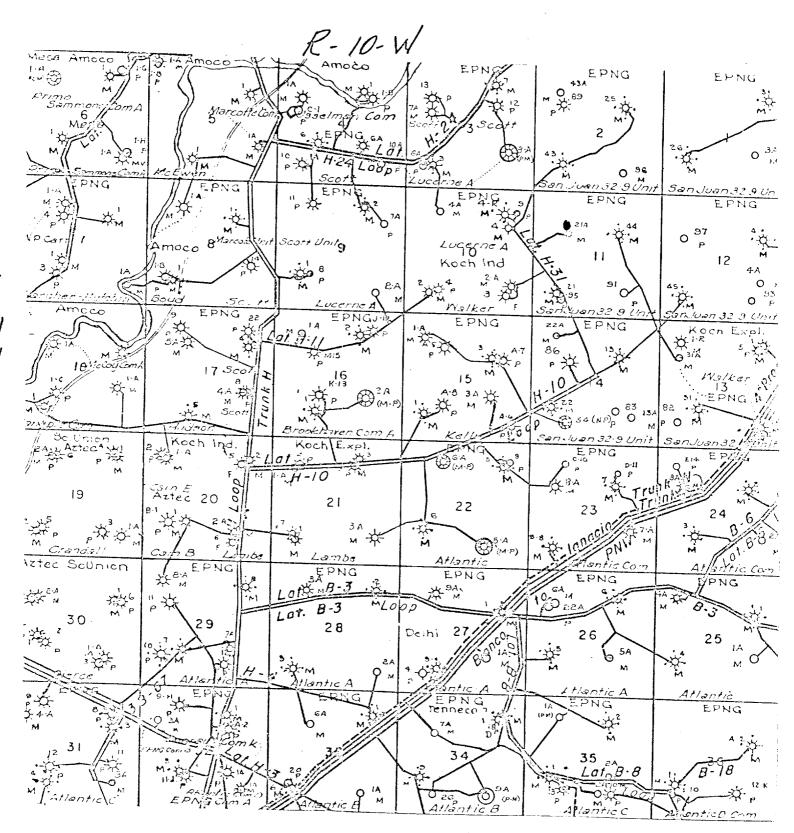
MAP #1 LEGEND OF RIGHT-OF-WAYS

	ROADS PIPELINES ROAD & PIPELIN	
PROPOSED		+ + +
	ROAD & PIPELI	NE

EL PASO NATURAL GAS COMPANY San Juan 32-9 Unit #90

NW 11-31-10

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Map #2