SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

APPLICATIO 1a. TYPE OF WORK	GEOLO				5. LEASE DESIGNATION AND SERIAL NO.
	LL EOD DEDLAIT T	GICAL SURVE) A CIC	SF 078389-A 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	N FOR PERMIT I	O DRILL, DI	EEPEN, OR PLUG E	SACK	
	RILL*	DEEPEN [PLUG BA	CK 🗌	7. UNIT AGREEMENT NAME
b. TYPE OF WELL	GAS - [7]		SINGLE J. MULTIP	ינונ [San Juan 32-9 Unit
WELL .	GAS WELL X OTHER		SINGLE ZONE ZONE		San Juan 32-9 Uni
	atural Gas Com	nanv			9. WELL NO.
3. ADDRESS OF OPERATOR		.panj			93
	0, Farmington,				10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (I	Report location clearly and		any State requirements.*)		Blanco Pictured C.
0	955'S, 146	50'E /			11. SEC., T., B., M., OR BLK. EXAMD SURVEY OR AREA Sec. 12, T-31-N, R-10
At proposed prod. 20	one				NMPM
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POST	OFFICE*		12. COUNTY OR PARISH 13. STATE
Approx. 15	5 miles NE of	Aztec, NM			San Juan NM
15. DISTANCE FROM PROF LOCATION TO NEARES	POSED*		16. NO. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL
PROPERTY OR LEASE		955'	Unit		137.44
18. DISTANCE FROM PRO		2010'	19. PROPOSED DEPTH 3535'	ł.	RY OR CABLE TOOLS
OR APPLIED FOR, ON TH	HIS LEASE, FT.	2010	3333	Rota	L Y 22. APPROX. DATE WORK WILL START
6572 Show w	hether DF, RT, GR, etc.)				22. AFFROX, DATE WORK WILL START
23.	D.	DODOSED CASING	AND CEMENTING PROGR.	A.M.	1
	-,	· · · · · · · · · · · · · · · · · · ·		1	
SIZE OF HOLE	8 5/8"	24.0#	setting depth	106	cu.ft. to circulate
12 1/4"	$-\frac{0.5/6}{2.7/8"}$	6.4#	3535'		cu.ft.to cover Ojo
0 3/ 4	-	0.11		- 303	<u> </u>
serective,	ly perforate a	ınd sandwa	ter fracture th	e Pic	tured Cliffs format
A 3000 psi	i WP and 6000	psi test	double gate pre	vente:	tured Cliffs format r equipped with tion on this well.
A 3000 psi blind and	i WP and 6000 pipe rams wil	psi test	double gate pre	vente:	r equipped with
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All distances must be from the outer boundaries of the Section Well No. Operator 1.ease SAN JUAN 32-9 UNIT (SF-078389-A) EL PASO NATURAL GAS COMPANY 93 Unit Letter Section Township Range County 31-N 10-W SAN JUAN Actual Footage Location of Well: 1460 SOUTH EAST feet from the line and feet from the Ground Level Elev. Producing Formation Poo! Dedicated Acreage: BLANCO PICTURED CLIFFS EXT. 6572 PICTURED CLIFFS 137.44 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? 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. Original Signed by D. G. Brisco Name Position Paso Natural Gas Co Company Tanuary 16, 1978 Date SECTION I hereby certify that the well location shown on this plat was plotted from field SF-078389-A SF-079909 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. 1460' ولا پا Date Surveyed SEPTEMBER 22, 1977 Registered Professional Engineer and/or Land Surveyor 1760

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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 #93

- 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.

- 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 green (Federal Standard #595-34127)
- 11. Other Information The terrain is sandstone ledges covered with pinon and cedar. Deer 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 #93

I. Location: 955'S, 1460'E, Section 12, T-31-N, R-10-W, San Juan County, NM

Field: Blanco Pictured Cliffs Ext. <u>Elevation:</u> 6572'GL

II. Geology:

A. Surface Formation: San Jose

Sub-surface Formation Tops:

Ojo Alamo	1670'	Pictured Cliffs	3392 '
Kirtland	1765'	Lewis	3495 '
Fruitland	3000 '	Total Depth	3535 '

- 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:

A. Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
	12 1/4"	120 '	8 5/8"	24.0# J-55
	6 3/4"	3535 '	2 7/8"	6.4# J-55

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

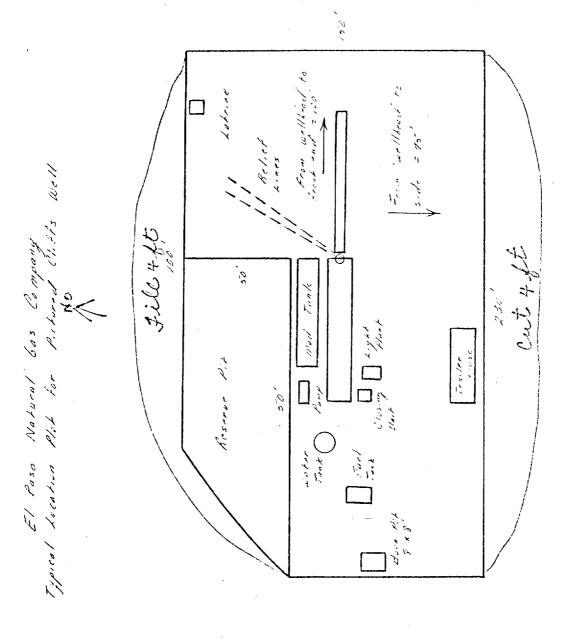
2 7/8" production casing - 10' shoe joint with notched collar for guide shoe and 2 7/8" latch down baffle on top. Two 3 1/16" balls and one 2 7/8" latch down plug.

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

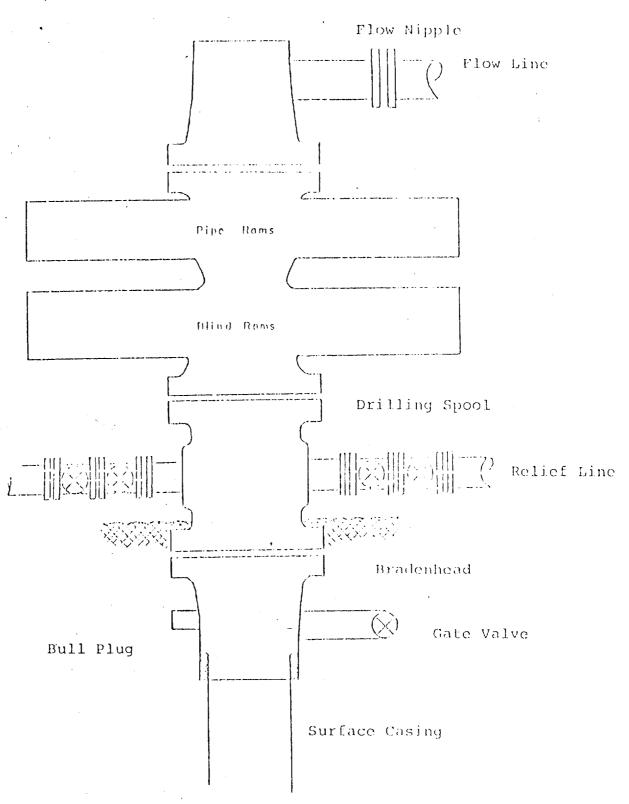
V. Cementing:

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 - 315 sks. 65/35 Class "B" Poz with 12% gel and 15.52 gallons water per sack followed by 50 sks.Class "B" neat cement (569cu.ft. slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hrs



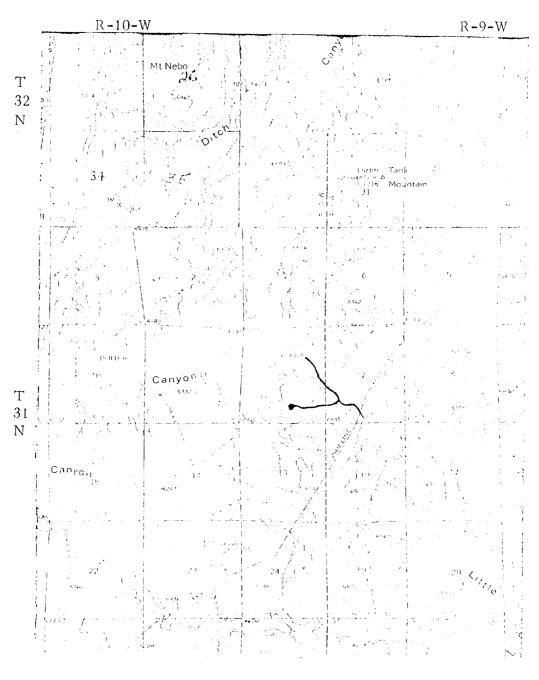
Typical Mud Drilled B.O.P. Installation for Pictured Cliffs Well



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

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EL PASO NATURAL CAS COMPANY San Juan 32-9 Unit #93 SE 12-31-10

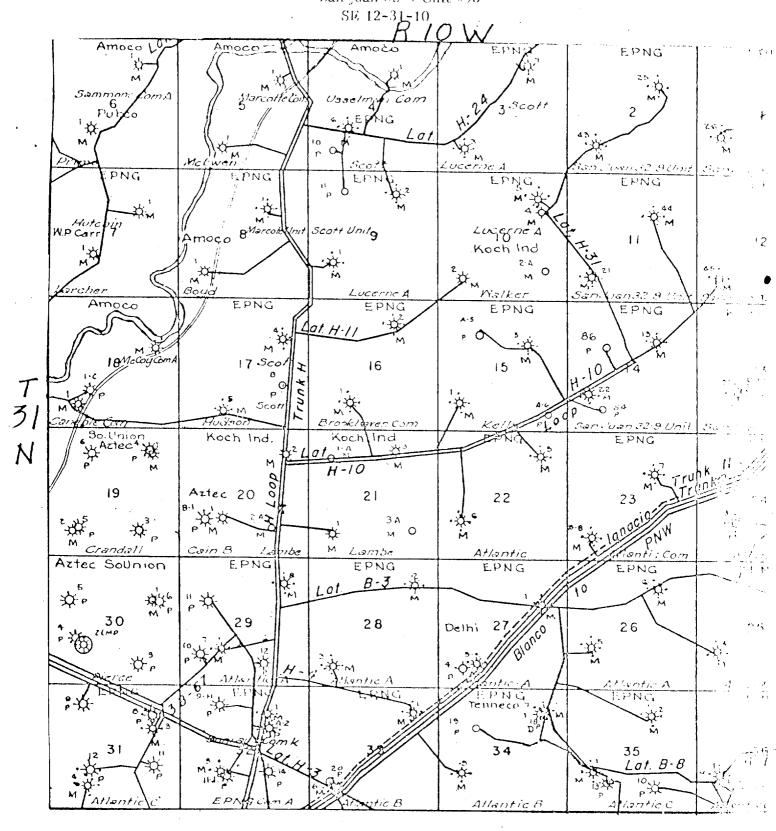


MAP #1

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EXISTING	ROM 23			
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EXTENTES	ROMA STITUTE	``; - }	<i>‡</i> .	- •
PROPOSED	ROADE			
TROPOSED	PHINAN	+	+	+
TROPOSED	ROAD - PERSON	··		

EL PASO NATURAL CAS COMPANY San Juan 32-9 Unit #93



MAP #2