SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY					5. LEASE DESIGNATION AND SERIAL NO. Jic.Cont.#120		
APPLICATIO			DEEPEN, OR PLU	G BACK		TTEE OR TRIBE NAME	
a. TYPE OF WORK	RILL ^X	DEEPEN [BACK [7. UNIT AGREEMEN	T NAME	
WELL	GAS X OTHER			ULTIPLE DIE	8. FARM OR LEASE		
Northwest	Production Co	orporation			Jicarilla	120 C	
ADDRESS OF OPERATOR		NM 0740			18		
. LOCATION OF WELL (, Farmington, Report location clearly and		h any State requirements.*	,	10. FIELD AND POO So.Blanco	L, OR WILDCAT Pic.Cliff	
At surface At proposed prod. zo		30'W			1	or blk. 26 N, R-4-W	
4. DISTANCE IN MILES	Same	REST TOWN OR POST	C OFFICE*		NMPM 12. COUNTY OR PAR	10m t 12	
16.5 miles	Northeast of				Rio Arrib		
	ST LINE, FT. lg. unit line, if any)	1450'	16. NO. OF ACRES IN LEAS 2568.02		OF ACRES ASSIGNED HIS WELL	162.80	
 DISTANCE FROM PRO TO NEAREST WELL, OR APPLIED FOR, ON TO 	DRILLING, COMPLETED,	600'	19. PROPOSED DEPTH 3375	20. вота Rotar	RY OR CABLE TOOLS		
1. elevations (Show wi	hether DF, RT, GR, etc.)				22. APPROX. DATE	WORK WILL START*	
3.	1	PROPOSED CASIN	G AND CEMENTING PR	OGRAM			
12 1/4"	8 5/8"	WEIGHT PER FO			QUANTITY OF CE		
6 3/4"	2 7/8"	24.0#	3375			.ft.circ.to surface .ft.to cover Ojo Al	
blind and	WP and 6000 pipe rams wil	psi test l be used	double gate p for blow cut	reventer prevent	equipped ion on thi	with swell.	
ABOVE SPACE DESCRIB	E PROPOSED PROGRAM: If I	proposal is to deepe	ated to this of this of the contract of the co	on present prod	uctive zone and prop	osed performance productive	
eventer program, if an	y.		on sansurface focatio	us and measured	and true vertical de	puns. Give blowout	
SIGNED /	y. Busco	TITL	Drilline	g Clerk		8-79	
(This space for Fede	eral or State office use)						
PERMIT NO.			APPROVAL DATE				
APPROVED BY		TITL	E		DAME.		
conditions of Approv							
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Contraction Section Section Township Long Col. Long Country Long Col. Long			All distances must	be from the outer l	lo settabires	the Section.		
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1630 Sec. Soc. Soc. Sec.	Unit Letter		ł ·			· ·		
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northwest production corporation

Multi-Point Surface Use Plan Jicarilla 120 C #18

- 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 Bull Pasture 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 sagebrush flats with sagebrush and cedar growin. Deer and 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.

L. A. Aimes

L. A. Aimes

Project Drilling Engineer

Operations Plan - Jicarilla 120 C #18

I. Location: 1450'S, 1630'W, Section 31, T-26-N, R-4-W, Rio Arriba County, NM
Field: So.Blanco Pictured Cliffs Elevation: 6768'GL

II. Geology:

A. Surface Formation: San Jose

Sub-surface Formation Tops:
Ojo Alamo 2740' Pictured Cliffs 3210'
Kirtland 2875' Lewis 3335'
Fruitland 3095' Total Depth 3375'

- 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.

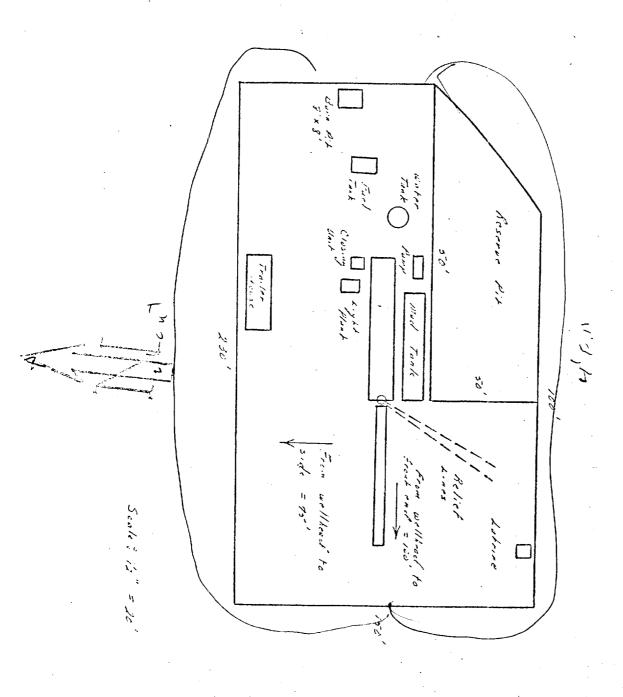
IV. Materials:

A. Casing Pr	cogram: Hole S	ize Depth	Csg.Size	Wt.&Grade
	12 1/4 6 3/4		8 5/8" 2 7/8"	24.0# J-55 6.4# J-55

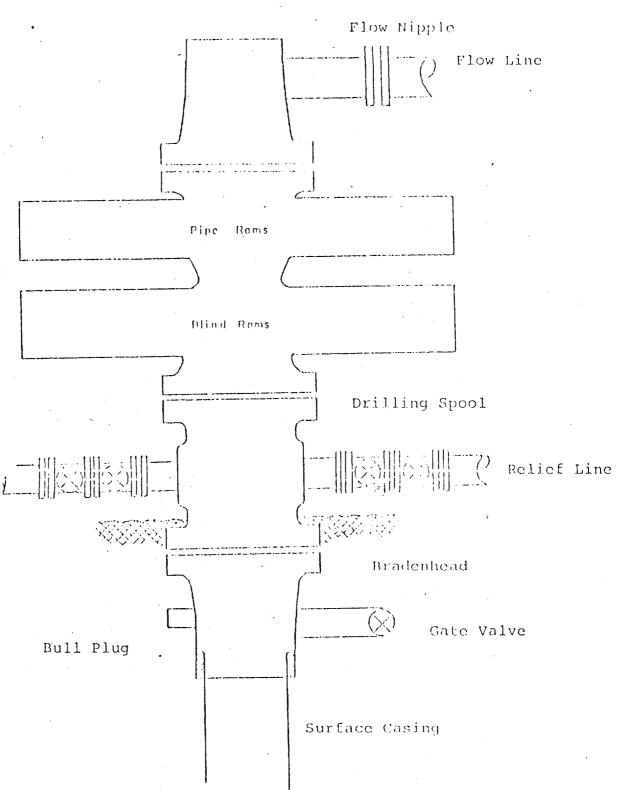
- B. Float Equipment: 8 5/8" surface casing cement guide shoe.
 - 2 7/8" production casing 10' shoe joint with notched collar for guide shoe and 2 7/8" latch down baffle on top. Two 3 1/16" balls and one 2 7/8" latch down plug.
- C. Tubing: none
- D. Wellhead Equipment: Larkin wellhead (fig. 75)

V. <u>Cementing:</u>

- $8\ 5/8"$ 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 69 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 (194 cu.ft. slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hrs.

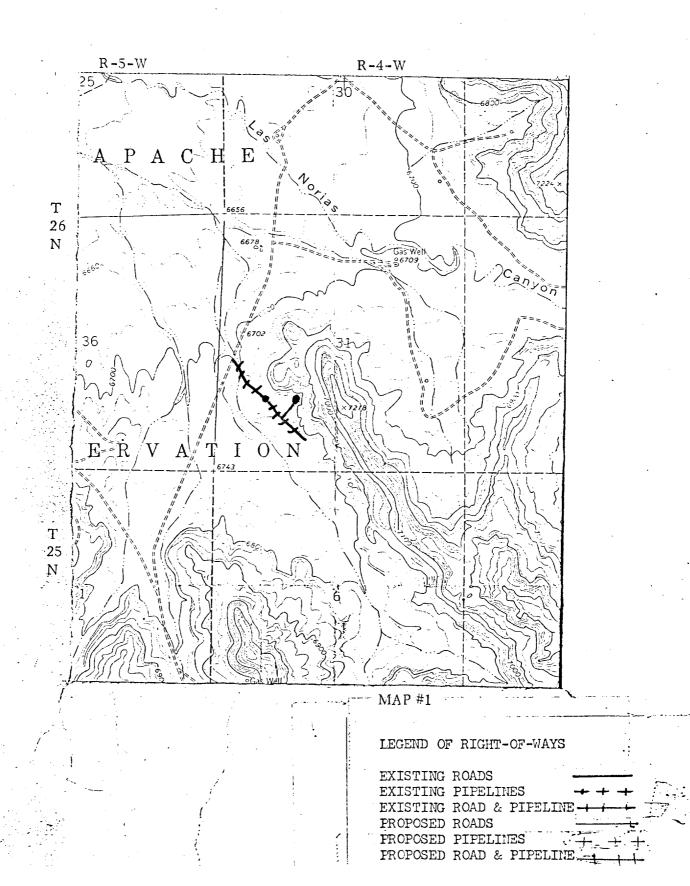


Typical Mud-Drilled B.O.P. Installation for Pictured Cliffs Well



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

NORTHWEST PRODUCTION CORPORATION Jicarilla 120C #18 SW 31-26-4



NORTHWEST PRODUCTION CORPORATION

Jicarilla 120C #18

R SW 31-26-4

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MAP #2