SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.

UNITED STATES DEPARTMENT OF THE INTERIOR

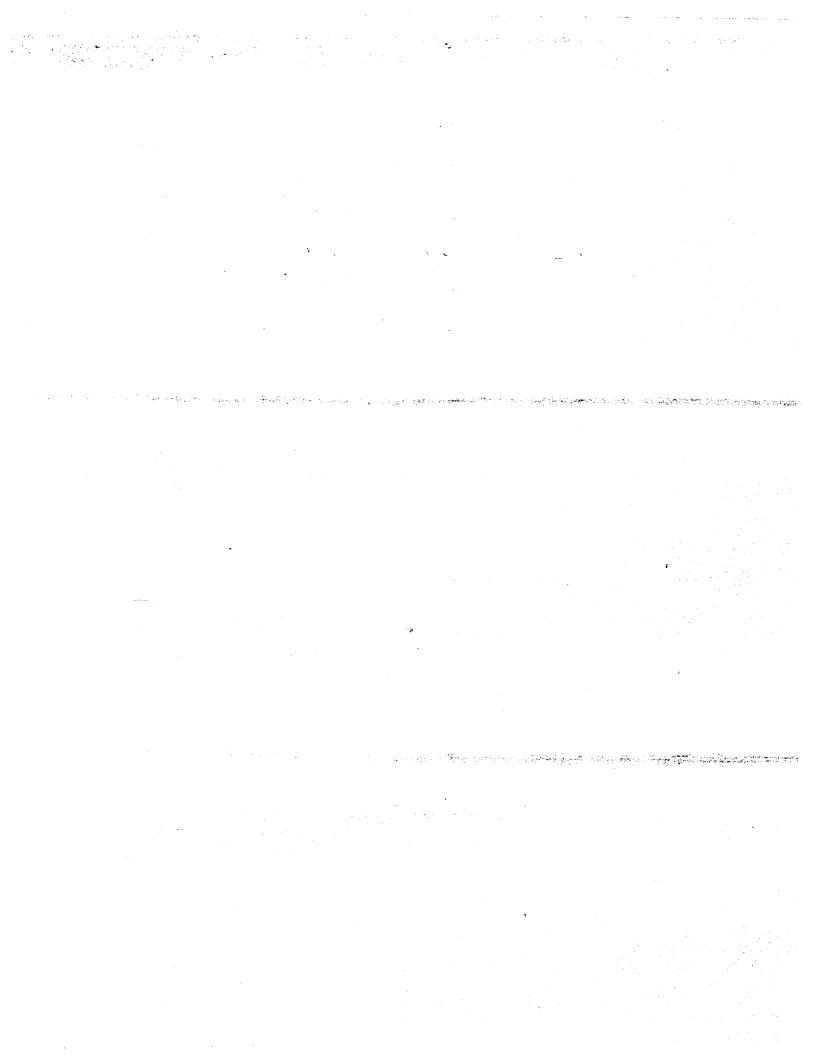
Buaget	Bureau	No.	42-R1425.
5. LEASE DESIG	9- =	ND 0	<u>07/3</u>
0. 52552 25510	MALIUM A	ם עות	TRIAL NO.

		GICAL SURV					Jic.Cont.#120
APPLICATIO	N FOR PERMIT	TO DRILL,	DEEP	EN, OR P	LUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
la. TYPE OF WORK	RILL ^X	DEEPEN			JG BA		7. UNIT AGREEMENT NAME
	GAS X OTHER		8	INGLE X	MULTIP ZONE	re 🗌	8. FARM OR LEASE NAME
NAME OF OPERATOR				UN 8	ZUNE		Jicarilla 120 C
Northwest	Production Co	rporation	1				9. WELL NO.
. ADDRESS OF OPERATOR	-						19
	, Farmington,						10. FIELD AND POOL, OR WILDCAT
At surface	Report location clearly and 1760'N, 790		th any !	State requiremen	nts.*)		So.Blanco Pic.Cliff 11. SEC., T., B., M., OB BLK. AND SURVEY OR AREA
At proposed prod. zo	same						Sec. 32, T-20-2, R-4-W
17 miles N	and direction from NEA Ortheast of L						Rio Arriba NM
5. DISTANCE FROM PROI LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dr	ST	790 '	16. N	2568.		17. NO. C	of acres assigned his well 160.00
8. DISTANCE FROM PRO TO NEAREST WELL, OR APPLIED FOR, ON TO	DRILLING, COMPLETED,	800'	19. PI	3385		20. ROTA Rotar	BY OR CABLE TOOLS
1. ELEVATIONS (Show w) 6742 GL	hether DF, RT, GR, etc.)						22. APPROX. DATE WORK WILL START*
3.	I	PROPOSED CASE	NG ANI	CEMENTING	PROGRA	M	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	oor	SETTING DI	EPTH		QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#		120		106 c	u.ft.circ. to surfac
6 3/4"	2 7/8"	6.4#		3385		249 c	
Selectivel A 3000 psi blind and This gas i The NW/4 o	y perforate a WP and 6000 pipe rams wil s dedicated t f Section 32	psi test l be used o this we	dould for	fractur ole gate r blow o	prevut pr	e Pict	equipped with ion on this well.
Selectivel A 3000 psi blind and This gas i The NW/4 o	y perforate a WP and 6000 pipe rams wil s dedicated t f Section 32	psi test. I be used to this we is dedicate	dould for	fractur ole gate r blow o	prevut pr	e Pict	equipped with ion on this well.
Selectivel A 3000 psi blind and This gas i The NW/4 o N ABOVE SPACE DESCRIBE CONTROL IS TO PROPOSAL IS to reventer program, if are is to revente program is to revente program.	y perforate a WP and 6000 pipe rams wil s dedicated t f Section 32	psi test. I be used to this we is dedicate	dould for	fractur ole gate r blow o to this	prevut pr	e Pict	equipped with ion on this well.
Selectivel A 3000 psi blind and This gas i The NW/4 o N ABOVE SPACE DESCRIBE CONTROL IS TO PROPOSAL IS to reventer program, if are is to revente program is to revente program.	y perforate a WP and 6000 pipe rams will s dedicated t f Section 32 FE PROPOSED PROGRAM: If I drill or deepen directiona ny.	psi test. I be used to this we is dedicate	dould for	fractur ole gate r blow o to this lug back, give d n subsurface loc	prevut pr	e Pict	equipped with ion on this well.
Selectivel A 3000 psi blind and This gas i The NW/4 o N ABOVE SPACE DESCRIBE IS TO Proposal is to reventer program, if are is to the content of the cont	y perforate a WP and 6000 pipe rams will s dedicated t f Section 32 FE PROPOSED PROGRAM: If I drill or deepen directiona ny.	psi test. I be used to this we is dedicate proposal is to deeply, give pertinent	dould for	fractur ole gate r blow o to this	prevut pr	e Pict	equipped with ion on this well.

DIATE OF NEW MEXICO P. O. BOX 2088 EMERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

Unit Le E Actual 176 Ground 674	RTHWEST etter Footage Loc	PRODUCTION CO	Township	JICARILLA :	(JICAI 120 "C" CONTRA		Well No.
Unit Le E Actual 176 Ground 674	Footage Loc	Section	Township		CONTRA	ないと かしつひき	
Actual 176 Ground 674		32	1		County	301 11201	1 17
176 Ground 674			26N	TIM	Rio Arri	ba	
Ground 674	v()	ation of Well:					
67L	Level Elev.	feet from the Producing Fo		e and 790	feet from the Wo	est	line
1. (-	1	d Cliffs	P∞1 So. Blance	o Pictured Clif	ffs Dedic	ated Acreage: 160.00
	Outline th			ct well by colored pe	encil or hachure man	rks on the pla	t below
2.] 3. I	If more the interest ar	an one lease is nd royalty). In one lease of d	dedicated to the	well, outline each a	nd identify the own	ership thereof	f (both as to working
	Yes	ommunitization, i	unitization, force-	pooling.etc? ype of consolidation _			
l f s	.nis form i Vo allowat	thecessary.)	ed to the well unt	descriptions which had all interests have landard unit, eliminating	peen consolidated	(by community	ization unitiration
X TOO			$\times \times $	1		CER	TIFICATION
	JICARILI	A CONTRACT #	120 Sec.		No. 19.00 No. 19	I hereby certify :	that the information con- true and complete to the
			32		Da	shown on this planetes of actual under my supervillation for the surveyor May 3 5 197 glyfered Protess:	ional Engineer
L				PICE STATE OF THE PICE OF THE		rtificate No.	



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 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.

L. A. Aimes

Project Drilling Engineer

Operations Plan - Jicarilla 120 C #19

I. Location: 1760'N, 790'W, Section 32, T-26-N, R-4-W, Rio Arriba County, NM

Field: So.Blanco Pictured Cliffs Elevation: 6752'GL

II. Geology:

A. Surface Formation: San Jose

Sub-surface Formation Tops:
Ojo Alamo 2570' Pictured Cliffs 3232'
Kirtland 2712' Lewis 3345'
Fruitland 2960' Total Depth 3385'

- 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. Ca	A. Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
		12 1/4" 6 3/4"	120 ' 3385 '	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.

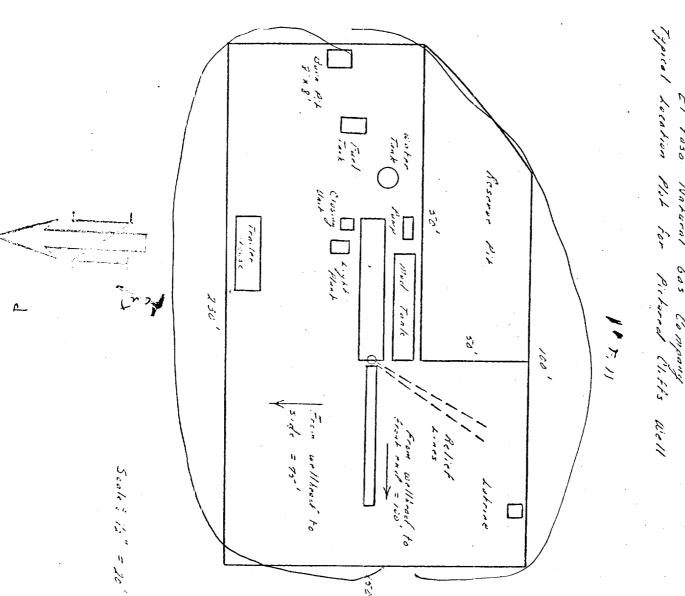
2 7/8" production casing - 10' shoe joint with notched collar for guide shoe and 2 7/8" latch down baffle on top. Two 3 1/16" balls and one 2 7/8" latch down plug.

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

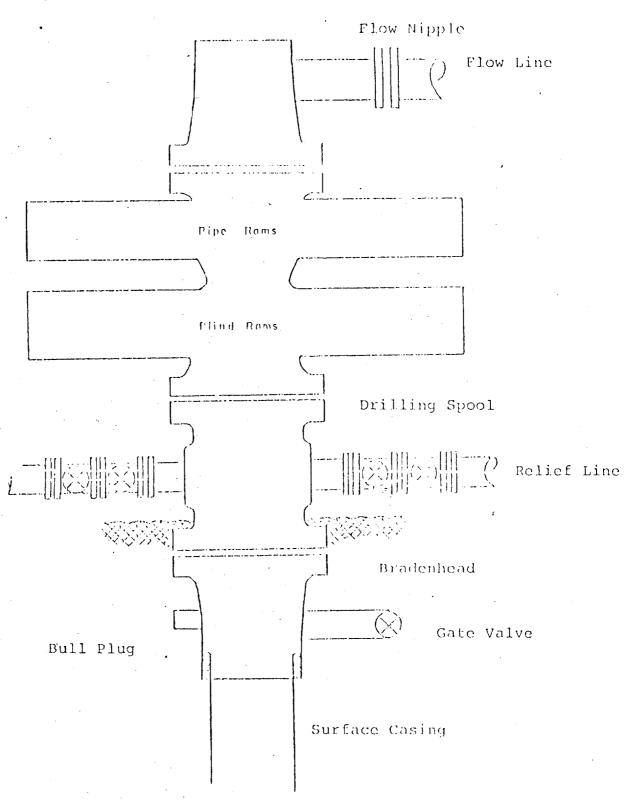
V. Cementing:

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 - 103 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 (249 cu.ft. slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hrs.



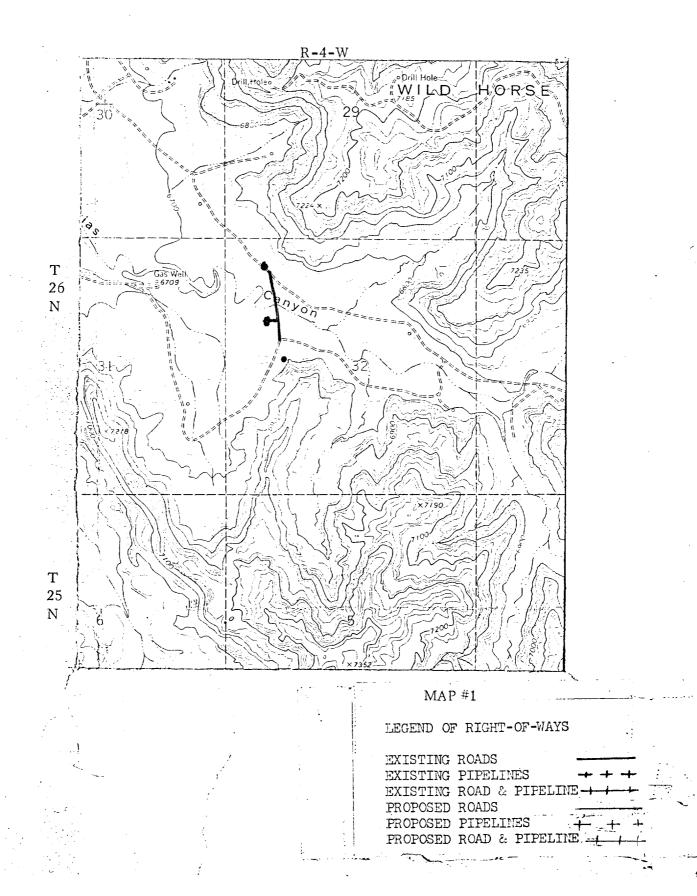
Typical Mud Drylled B.O.P. Installation for Pictured Cliffs Well



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

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NORTHWEST PRODUCTION CORPORATION Jicarilla 120C #19 NW 32-26-4



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 ${\rm MAP} \approx 2$