SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

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			NATION	AND	SEI	UAL.	NO.

	5. LEASE DESIGNATION AND SERIAL NO.						
	SF 080379-A						
APPLICATION	6. IF INDIAN, ALLOTTEE OR TRIBE NAME						
DRI b. TYPE OF WELL OIL GA WELL GA VELL 2. NAME OF OPERATOR	LL X	DEEPEN	s	PLUG BAC	K 🗌	San Juan 20-6 Unit 7. UNIT AGREEMENT NAME San Juan 29-6 Unit 8. FARM OR LEASE NAME 9. WELL NO.	
3. ADDRESS OF OPERATOR	Pipeline Corp	oración —				18A	
P.O. BOX	P.O. Box 90 - Farmington, N.M. 87401 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)						
At proposed prod. zon	bove		ST OFFIC	E.		Blanco Mesa Verde 11. sec., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 5, T29N, RSW 12. COUNTY OR PARISH 13. STATE Rio Arriba N.M.	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) 16. No. OF ACRES IN LEASE NA NA W						F ACRES ASSIGNED AS WELL 318.60	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. NA			1 (2)			RY OR CARLE TOOLS	
21. ELEVATIONS (Show whe 6788 GR	ther DF, RT, GR, etc.)					Jan. 1, 1978	
23]	PROPOSED CASI	NG ANI	CEMENTING PROGRA	.M	, , , , , , , , , , , , , , , , , , ,	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	FOOT SETTING DEPTH			QUANTITY OF CEMENT	
12 1/4"	9 5/8"	32.3#	· 200'			125 sks.	
8 3/4"	7"	20#		3994'		150 sks.	
6 1/4"	4 1/2"	10.5#		3844'-6068'		210 sks.	

Selectively perforate and stimulate the Mesa Verde formation.

A BOP will be installed after the surface casing has been run and cemented. All subsequent operations will be conducted through the BOP.

The W/2 of Section 5 is dedicated to this well.

Gas is dedicated.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any 24. Drilling Engineer ichardson (This space for Federal or State office use) PERMIT NO. . APPROVAL DATE APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

DER/ch

*See Instructions On Reverse Side

All distances must be from the outer boundaries of the Section.

		All distances it	ust be from			c section.				
Operator Northwest	Lec	San Juan 29-6 Unit			Well No. 18A					
Unit Letter Section Township			Range 6W	(County	Arriba				
E Actual Featage Los	gtion of Walls	29N		OW		NIO	ALLIDA			
Actual Postage Location of Well: 1550 feet from the North line and 800 feet from the West										
Graund Level Elev.	Producing Fer		Pos			ion the		Dedicate (Acreage: /		
6788	Mesa V		Blanco /				318.66 Acres			
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.										
2. Oznacz sar zaszego zaszesze sa										
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).										
0.75	, , ,	:cc			11 1			11 1 1		
	in one lease of d ommunitizatio n , v				well, ha	ive the i	nterests of	all owners been consoli-		
dated by c	ommunitization, t	mitization, force	-pooring.	cic;						
Yes Yes	Yes No If answer is "yes," type of consolidation									
If answer	is "no," list the	owners and trac	t descript	ions which h	ave-acti	ially be	en consolida	ated. (Use reverse side of		
1	f necessary.)									
								munitization, unitization,		
•	ling, or otherwise)	or until a non-s	tandard ur	iit, eliminatii	ng such	interest	s, has been	approved by the Commis-		
sion.				·			 			
	and the state of t			!				CERTIFICATION		
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	· 						Name D.F. D.	ichardson		
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	1			1			1	ng Engineer		
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	; [i			Date	est Tipe The Colp.		
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SF 080379	9 - A _j S	ec			· · · · · · · · · · · · · · · · · · ·					
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OPERATIONS PLAN

San Juan 29-6 Unit #18A

I. LOCATION: SW/4 NW/4 Sec. 5, T29N, R6W LEASE NUMBER:

Rio Arriba County, N.M.

FIELD: Blanco Mesa Verde ELEVATION: 6788' GR

II. GEOLOGY:

A. Formation Tops:

Ojo Alamo: 2840 Cliff House: 5420' Kirtland: 29631 Menefee: 55741 34031 Fruitland: Point Lookout: 58681 3690' Pictured Cliffs: Total Depth: 60681 3794' Lewis:

B. Logging Program: Gamma Ray-Neutron at T.D.

C. Coring Program: None

D. Natural Gauges: Gauge at last connection above 5574',5868' and at

total depth. Gauge any noticeable increases in gas-

SF 080379-A

flow at depth other than those noted above.

III. DRILLING:

A. Anticipated starting date and duration of activities: 1-1-78, 2 weeks.

B. BOP: Blind rams and pipe rams, 10', 900 series, flouble gate, rated at 3000 PSI.

C. Mud Program:

a) Spud Mud: Water, lime and gel.

b) Surface to 3794'

Viscosity: 32-38 sec/qt.
Weight: 8.8-9.2 #/gal.
Water Loss: 8-20 cc
Ph: 8.5-9.5

c) From 3794' to 3994'.

Viscosity: 36-45 sec/qt.
Weight: 8.5-9.5 #/gal.
Water Loss: 8-20 cc
Ph: 8.5-9.5

d) from 3994' to total depth with gas.

IV. MATERIALS:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	Wt. & Grade	Depth Set
12 14/"	200'	9 5/8"	32.3# H-40	200'
8 3/4"	3994	7''	20# K-55	39941
6 1/4"	2224'	4 1/2"	10.5# K-55	3844'-6068'

B. Float Equipment:

a) Surface casing 9 5/8" - B & W Regular Pattern Shoe.

b) Intermediate Casing 7" - Dowell guide shoe (Code #50101-070) and self fill insert float collar (Code #53003-070). Seven (7) centralizers (Code #56011-070) spaced every other joint above the shoe.

Operations Plan
San Juan 29-6 Unit #18A
Page 2

- B. Float Equipment Continued
 Place float collar one joint above shoe.
 - c) Liner 4 1/2" Larkin geyser shoe (Fig. 222) and Larkin flapper type float collar (Fig. 404). Brown liner hanger with neopreme pack off.
- C. Tubing Program: 5900', of 2 3/8", 4.7#, EUE, K-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom.
- D. Well Head Equipment: Gray well head. Gray representative to set slips and make cut off.

V. CEMENTING:

- A. Surface Casing 9 5/8" Use 125 sks. Class "B" with 1/4# gel flake per sack and 3% CaCl (100% excess to circulate). WOC 12 hours. Test surface casing to 600 PSI for 30 minutes.
- B. Intermediate Casing 7" Use 100 sacks Class "B" 65/35 poz with 12% gel and 15.52 gal. water per sack. Tail in with 50 sacks Class "B" with 2% CaCl (65% excess to cover Ojo Alamo). WOC 12 hours. Run temp. survey after 8 hours. Test casing to 600 PSI.
- C. Production Liner 4 1/2" Use 210 sacks Class "B" with 4% gel and 1/4 cu.
 ft. of fine Gilsonite per sack. Precede cmt. with
 20 bbls. water mixed with 3 sks. gel (70% excess to
 circulate liner). Set liner pack off and reverse
 out excess cmt. Run 6 1/4" bit to top of liner and
 pressure test (test 12 hours after plug is dov.).
 Lay down DP and run 3 7/8" bit on 2 3/8" EUE tubing to clean out liner. Perforate 18 hours after
 plug is down.

NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

for the San Juan 29-6 Unit

Well Number 18A

- 1. Existing Roads: See attached topographic map. All existing roads used, shall be maintained in a serviceable condition at all times during the drilling operation.
- 2. Planned Access Roads: See attached topographic map. Maximum grade is approximately 1%. The road surface will not exceed twenty feet in width. Upon completion of drilling operations the access road will be adequately drained to control runoff and soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary. All activities will be confined to the access road and drill bad..
- 3. Location of Existing Wells: See attached topographic map.
- 4. Location of Tank Batteries; Production Facilities; and Production, Gathering and Service Lines: See attached topographic map for locations of existing and proposed gas gathering lines.
- 5. Location and Type of Water Supply: Water needed for the drilling operation will be hauled from the San Juan 29-6 Unit Water Well located in the SW/4 28, T29N, R6W.
- 6. Source of Construction Materials: No additional materials will be needed.
- 7. Methods for Handling Waste Disposal: All garbage, debris, and trash will be burried at least three feet deep. A portable toilet will be supplied for human waste. After drilling operations have been completed the reserve pit will be fenced and the liquid portion will be allowed to evaporate before the location is cleaned up and leveled. The earthen pits will not be located or natural drainages and will be constructed in such a manner so that they will not leak. Any evaporator pit containing toxic liquids will be fenced.
- 8. Ancillary Facilities: There will be no camps or airstrips associated with the drilling of this well.
- 9. Well Site Layout: See attached location layout sheet. There will be a drainage ditch above the cut slope.
- 10. Plans for Restoration of the Surface: Upon completion of drilling, the location will be cleaned, and leveled so that no cut or fill banks will be steeper than 3:1.

All of the area disturbed in connection with the drill site will be seeded as close as possible for any above ground equipment while still allowing for access to the equipment. Seeding will be done within one year after drilling is completed and during the period from July 1 through September 15. Seeding will be done with seed Mixture #1.

All equipment above ground will be painted a non-glare, non-reflective, non-chalking color that simulates the natural color of the site. For this well code number 595-34127, Green.

11. Other Information: If, during operations, any historic or prehistoric ruin, monument or site, or any object of antiquity is discovered, then work will be suspended and the discovery will be reported to the District Manager of the BLM.

Multi-Point Surface Use Plan San Juan 29-6 Unit:#18A Page 2

When drilling with gas, the line used to discharge and burn off the gas will be located so as not to damage vegetation in the area, and if necessary an earthen screen will be constructed to protect the vegetation. All liquids from the line will be contained at the site unless otherwise specified by the surface agency's representative.

The area covered by the location and proposed access raod is gently sloped with scattered brush and some grasses.

- 12. Operator's Representative: D.E. Richardson, P.O. Box 90 Farmington, New Mexico 87401. Phone: 327-5351 Extinsion #38.
- 13. Certification:

I hereby certify that I 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 Northwest Pipeline Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

//-/8-77 Date

D.E. Richardson Drilling Engineer

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Northwest Pipeline Corporation



November 14, 1977

RE: Rehabilitation Agreement, for Fee Land.

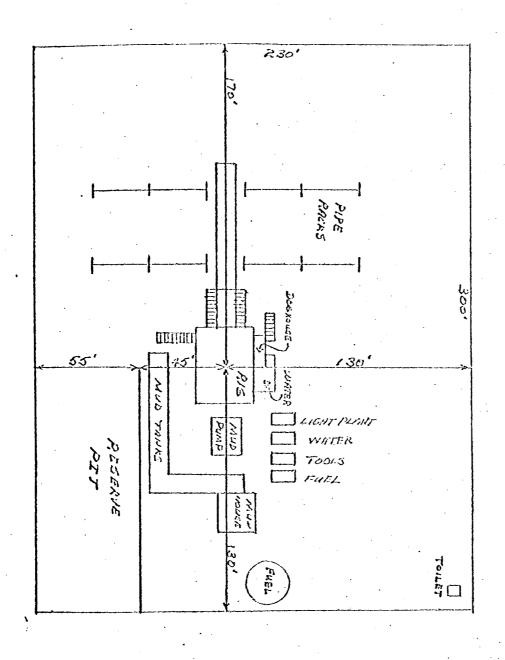
Dear Sir:

Northwest Pipeline Corporation will submit a standard Rehabilitation agreement as soon as surface ownership is determined. Northwest is presently in the process of determining ownership, and should have the necessary information available within two (2) weeks, at which time we will submit the proper form.

Thank you for your cooperation,

D. E. Richardson

DER7br



DATE:

SCALE: 12cm = 20'

