SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

		Bureau		42-R	1425.	
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ASE	DESIG	NATION A	ND S	ERIAL	NO.	

UNITE	ED S	STATI	ES
DEPARTMENT	OF	THE	INTERIOR

GEOLOGICAL SURVEY					SF-078999	
APPLICATION	FOR PERMIT T	O DRILL, D	EEPE	N, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK	LL X	DEEPEN [PLUG BAC		7. UNIT AGREEMENT NAME
b. TYPE OF WELL OIL GA WELL WI	S X OTHER			NGLE MULTIPL ZONE	Е 🗌	San Juan 31-6 Unit 8. FARM OR LEASE NAME
2. NAME OF OPERATOR	t Pipeline Corp	noration				San Juan 31-6 Unit 9. WELL NO.
3. ADDRESS OF OPERATOR	CA TPCTITIC COT	01 401011				31 —
	90, Farmingto	on. New Mext	ico	87401		10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Re	port location clearly and	in accordance with	any S	tate requirements.*)		Basin Dakota —
At surface 82	0' FSL & 820' I	EL			_	11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zone						Soc 25 T21N D6N
as above						Sec. 35, T31N, R6W
14. DISTANCE IN SILES AND DIRECTION FROM MINERAL TOWN ON THE					Rio Arriba NM	
15. DISTANCE FROM PROPUSED* LOCATION TO NEAREST 16. NO. OF ACRES IN LEASE 17. NO. OF TABLE 17. NO. OF TABL					DF ACRES ASSIGNED NIS WELL 320	
18. DISTANCE FROM PROP	OSED LOCATION*		19. PR	OPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS
TO NEAREST WELL, DI OR APPLIED FOR, ON THI		580		8200	Ro	tary
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*
6406' GR					July 15, 1979	
23.		ROPOSED CASIN	G AND	CEMENTING PROGRA	M	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	от	SETTING DEPTH		QUANTITY OF CEMENT
12 1/4"	9 5/8"	32.3#		350	1	85 sks
8 3/4" 7" 20#				3900		65 sks
					55 sks	

Selectively perforate and stimulate the Dakota formation.

A BOP will be installed after the surface casing is set & cemented. All subsequent work will be conducted through the BOPs.

The South half of Section 35 is dedicated to this well.

Gas is dedicated.

DIST. 3

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical deptus. preventer program, if any.

SIGNED William Billman	TITLE	Drilling Engineer	DATE 6/26/79
(This space for Federal er State office use)			
PERMIT NO.		APPROVAL DATE	
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE		DATE

ah Fruh

JUN 2 9 1979

*See Instructions On Reverse Side UL S. GEOLOGICAL SURVEY

BURIANGO, COLO. -

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

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

MORTHARDST PIPPLINE CORPORATION In Letter Seation Councils Seation Councils Seation Councils Seation Councils Seation Councils Seation Councils Seating Seatin	Charatar			Leo	50			Well No.			
Pass Section Township Passes Section Passes State Passes State Passes State Passes State Passes State Passes Pass	Operator NORTHWEST PIPELINE CORPORATION										
Sec. Section 1 wells South Item and Section 1 wells Section 1 well Section 2 well Section 2 well Section 3											
Sec. Sec. Section to South Line and Section the East The Desire Thronger Producing Formation Page Desire	P	35	31N		6W	Rio	Arriba				
Description Producing Personner Peoch Dakota Basin Dakota Description De	-	ation of Well:			_						
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 No If answer is "yes," type of consolidation If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if accessary.) 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 Ass of my knowledge and balat. Non. Non. Sec. 35 SF-078999 36 SF-078999 37 SF-078999 38 SF-078999 38 SF-078999 CERTIFICATION I hereby certify that the information contained herein is true and complete to the Ass of my knowledge and balat. Non. Northwest Pipeline Company Nort						et from the	East				
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OPERATIONS PLAN

I. WELL NAME: San Juan 31-6 #31

June 27, 1979

LOCATION: 820' FSL & 820' FEL

LEASE NUMBER: SF-078999

Sec. 35, T31N, R6W

FIELD: Basin Dakota

ELEVATION: 6406' GR

II. GEOLOGY:

A.	Formation Tops:		Cliff House	5396 '
	Ojo Alamo	2645'	Point Lookout	5596 '
	Kirtland	2697'	Greenhorn	7601'
	Fruitland	3007	Graneros	7651 '
	Pictured Cliffs	3167'	Dakota	7826'
	Lewis	3426'	Total Depth	8200 '

B. Logging Program: Gamma Ray Induction & Density at Total Depth.

C. Coring Program: None

D. Natural Gauges: Gauges at 5596',7601',7651', and at total depth. Gauge

any noticable increases in gas flow at depths other than those noted above. Record all gauges on daily drilling

reports and tower reports.

III. DRILLING:

A. BOP: Blind rams and pipe rams, 10', 900 series, double gate, rated at 3000 psi.

- B. Mud Program:
 - a) Spud Mud: Water, lime and gel.
 - b) Surface to 350'.

Viscosity: 32-38 sec/qt. Weight: 8.8-9.2 #/gal.

Water Loss: 8-20 cc

Ph: 8.5-9.5

c) From 350' to 3900'.

Viscosity: 36-45 sec/qt. Weight: 8.5-9.5 #/gal.

Water Loss: 8-20 cc Ph: 8.5-9.5

d) From 3900' to total depth with gas.

IV. MATERIALS:

A. Casing Program:

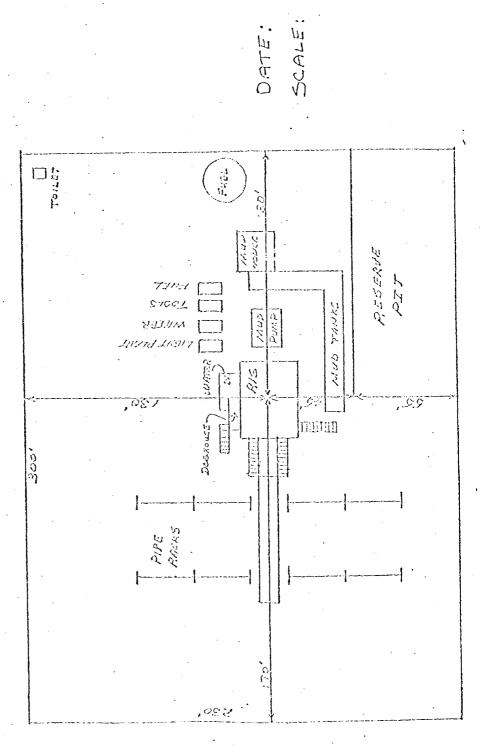
Hole Size	Depth	Casing Size	<u>₩t. &</u>	Grade
12 1/4"	350'	9 5/8"	32.3#	H-40
8 3/4"	3900 '	7"	20#	K-55
6 1/4"	8200 '	4 1/2"	10.5# & 11.	6# K-55

- B. Float Equipment:
 Surface 9 5/8" Larkin guide shoe.
 Intermediate 7" Guide shoe, self-filling insert float valve.
 Production 4 1/2" geyser shoe, flapper type float collar.
- C. Tubing: 8150' of 2 3/8" 4.7#, J-55, 8RD EUE tubing with a common seating nipple above bottom joint.
- D. Well Head Equipment: Gray Tool Company drawing No. E-5533, or equivalent. Well head representative to set slips on intermediate and production strings.

V. CEMENTING:

- A. Surface Casing: 9 5/8" Use 185 sacks of class "B" cement with 1/4# gel flake per sack and 3% calcium chloride, (100% excess to circulate 9 5/8" casing). WOC 12 hours. Test to 600 psi for 30 minutes.
- B. Intermediate Casing: 7" Use 165 sacks of 65/35 Class "B" poz with 12% gel and 15.52 gallons of water per sack. Tail in with 50 sacks of Class "B" with 2% calcium chloirde (360 cu. ft. of slurry 50% excess to cover Ojo Alamo). Use top rubber plug only. Run temperature survey after 8 hours. WOC 12 hours. Test casing to 1200 psi for 30 minutes.
- C. Production Casing: 4 1/2" Precede cement with 40 barrels of water mixed with 4 sacks gel. Cement with 225 sacks of Classl "B" cement with 8% gel, 12 1/2# fine gilsonite per sack and 0.4% HR-4. Tail in with 100 sacks of Class "B" cement with 1/4% fine tuf-plug per sack ans 0.4% HR-4 per sack.

WJB/ch



NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

for the San Juan 31-6 Unit

Well Number 31

- 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.
- 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 run off and soil erosion. Drainage facilities may include ditches, water bars, culverts or any other deemed necessary. All activities will be confined to the access road and drill pad.
- 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. The pipeline will be constructed adjacent to the access road.
- 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 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 buried 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 on 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 layout sheet.
- 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 the site. For this well code number 959-34127, 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.

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.

Multi-Point Surface Use Plan

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: W.J. Billman - P.O. Box 90 - Farmington, New Mexico 87401. Phone: 327-5351 Extinsion #103.

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.

6/28/79 Date

W.J. Billman Drilling Engineer

WJB/ch

