SUBMIT IN TRIPLICATE*

Form approved, Budget Bureau No. 42-R1425.

(Other instructions on reverse side) **UNITED STATES**

	DEPARTMEN	TOF THE IN	NTEF		reverse sid	le)	30-039-21565	
·	GEOLC	GICAL SURVE	Ϋ́				5, LEASE DESIGNATION AND SERIAL NO.	
APPLICATION	I FOR PERMIT			EN, OR PL	.UG B	ACK	SF 080379-A 6. IF INDIAN, ALLOTTED OR TRIBE NAME	
1a. TYPE OF WORK	LL X	DEEPEN [7	DITI	G BAC	K 🗀	7. UNIT AGREEMENT NAME	
b. Type of well		DLL! EN	-			.—	San Juan 29-6 Unit	
OIL GA WI 2. NAME OF OPERATOR	S X OTHER			INGLE DONE	MULTIPL ZONE	E	8. FARM OR LEASE NAME	
	peline Corpora	tion					San Juan 29-6 Unit	
3. ADDRESS OF OPERATOR	- Farminatan	N M 07/01					20A	
P.O. Box 90 - Farmington, N.M. 87401 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)							Blanco Mesa Verde	
At proposed prod. zone As A	FNL & 1140' F	WL _			,		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA	
14. DISTANCE IN MILES A		REST TOWN OR POST	OFFIC	E *		······································	Sec. 8, T29N, R6W	
							Rio Arriba N.M.	
15. DISTANCE FROM PROPO- LOCATION TO NEAREST PROPERTY OR LEASE LI (Also to nearest drig.	860'			NA NA 17.		NO. OF ACRES ASSIGNED TO THIS WELL 320		
18. DISTANCE FROM PROPO TO NEAREST WELL, DR OR APPLIED FOR, ON THIS	NA	19. PROPOSED DEPTH 2 6054 1			O. ROTARY OR CABLE TOOLS ROTARY			
21. ELEVATIONS (Show when 6804 G							22. APPROX, DATE WORK WILL START*	
23.]	PROPOSED CASING	G ANI	CEMENTING	PROGRAI	1		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	OΤ	SETTING DE	РТИ		QUANTITY OF CEMENT	
12 1/4"	9 5/8"	32.3#		200 '		1	125 sks.	
8 3/4"	7" 4 1/2"	20# 10.5#		<u>4010'</u> 3860'-60	<i></i>		50 sks. 10 sks.	
Selectively pe	installed after	r the surfac	e ca	sing has	been r	un and	d cemented.	
The W/2 of Sec	operations wil	ll be conduc	ted	through t	he BOP	•		
Gas is dedicate	ed.						CIT ASSESSED	
IN ABOVE SPACE DESCRIBE tone. If proposal is to dopreventer program, if any	rill or deepen directions	proposal is to deepe ully, give pertinent	n or p data o	lug back, give da n subsurface loca	ita on pre	sent prod measured	uctive zone and proposed new productive a and true vertical depths. Give blowout	
SIGNED LE	Luhan	lan TITL	ED	rilling E	nginee	r	11/8/77	
(This space for Feder	chardson							
PERMIT NO.			_	APPROVAL DATE _				
APPROVED BYCONDITIONS OF APPROVA	L, IF ANY:	TITU	E		~ · · · · · · · · · · · · · · · · · · ·		DATE <u>197</u>	
DER/ch (WVCaX	•					Name of the American	

*See Instructions On Reverse Side

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NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section

		All distances must be	from the outer boundaries of	the Section.				
Operator Northwest	Pipeline Corp	ocration	Lease San Juan 29-6	Unit	well 1. 20A			
Unit Letter D	Section 8	Township 29N	Range 6W	County Rio Arriba				
Actual Footage Loc	No	orth line and	1140	West				
Ground Level Elev.	feet from the Producing For	Title card	Pool	et from the	line Dedicated April 29:			
6804	Mesa V		B1anc		320 Arres			
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 lean consolidated by communitization, unitization, force-pooling. etc?								
Yes	No If ar	nswer is "yes," type	of consolidation		- Company			
		owners and tract des	criptions which have ac	ctually been consolidat	ed. (Use reverse side of			
	necessary.)	11 .1	11	3.1				
					unitization, unitization, pproved by the Commis-			
sion.	ing, or otherwise,	or until a non standa	id unit, climinating suc	n interests, has been a	pproved by the Commis-			
Month of the same	and the same of the				CEDTIFIC ATION			
			i		CERTIFICATION			
			† 1	I hereby ce	rtify that the information con-			
	80				in is true god epurplete to the			
1140	. !		1		knowledge and belief.			
	į		1	1/5	A Lordon			
<u> </u>	·		<u> </u>	ikame	Carried Contraction			
4	i I		 	D.E. Rich	nardson			
1140'	f			Drilling	Engiveer			
	l i		1	Company Northwest	Pipeline Corp.			
	İ		'	Date				
SF 080379		Sec	1 	November	8, 1977			
		8			•			
	i) 	I hereby c	ertify that the well location			
9	1	\$ 1		shown on th	is plat was plotted from field			
* **	† †			I i	tual surveys made by me or			
			i .	1 1	pervisian, and that the same I correct to the best of my			
X S	1		1	knowledge	•			
	+							
	 			Date Surveyed October	5, 1977			
S S	1 		 		oferst and Englaner			
	1		. !	Leest	. Kerr Jr.			
A STATE OF THE STA				Certificate No	· · · · · · · · · · · · · · · · · · ·			
0 330 660	92 1320 1650 198	0 2310 2*40 200	00 1500 1000 5	3950	•			

OPERATIONS PLAN

San Juan 29-6 #20A

LEASE NUMBER: SF 080379-A I. LOCATION: NW/4 NW/4 Sec. 8, T29N, R6W

Rio Arriba County, N.M.

ELEVATION: 6804' GR FIELD: Blanco Mesa Verde

GEOLOGY: II.

Α. Formation Tops:

Ojo Alamo: Cliff House: 2816**'** 5486' Kirtland: 2979 Menefee: 5590' Fruitland: 3419' Point Lookout: 5854 Pictured Cliffs: 37061 Total Depth: 60541 Lewis:

3810'

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

C. Coring Program: None

Natural Gauges: Gauge at last connection above 5590, 5854' and at

total depth. Gauge any noticeable increases in gas

flow at depth other than those noted above.

III. DRILLING:

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

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

Mud Program:

a) Spud Mud: Water, lime and gel.

Surface to 3810'.

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

c) From 3810' to 4010'.

Viscosity: 36-45 sec/qt. Weight: 8.5-9.5 #/ga1. Water Loss: 8-20 cc

8.5-9.5

d) from 4010' to total depth with gas.

IV. MATERIALS:

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"	4010 '	7''	20 # K-55	4010'
6 1/4"	2194'	4 1/2"	10.5# K-55	3860'-6054'

Float Equipment:

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

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 #20A 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: 5850', 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 down).
 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 20A

- 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 #20A 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

DER/ch

November 14, 1977

RE: Rehabilitation Agreement, for Fee Land.

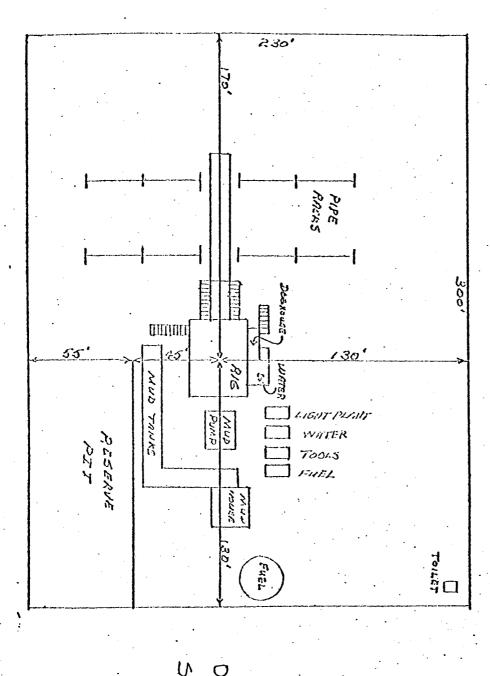
Dear Sir:

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 choperation,

D. E. Richardson

DER/br



DATE:

SCALE: 1cm = 20'

