SUBMIT IN TRIPLICATE.

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

(Other)	instr	uct	aaoi	on
164	erse	sid	e)	

30-039-	
5. LEASE DESIGNATION	AND SERIAL NO.

DEFACTMENT OF THE INTERIOR					5. LEASE DES	IGNATION A	ND SERIA	L NO.		
	GEOLO	GICAL SURV	EY				SF 078	278		
APPLICATIO	N FOR PERMIT	TO DRILL, I	DEEPE	N. OR PI	UG B	ACK	6. IF INDIAN,		OR TRIBE	NAME
1a. TYPE OF WORK		, <u> </u>		·/ • · · · ·						
	RILL X	DEEPEN [PLU	IG BAC	K 🗌	7. UNIT AGRE	EMENT NA	ME	
b. TYPE OF WELL	GAS (TT)		SIN	era em	MULTIPI	.B		an 29-		t
	WELL X OTHER		ZON		ZONE	<u>" </u>	8. FARM OR L			
	. 1						San Ju	an 29-	-6 Uni	t
NOTTHWEST PI	peline Corporat	ion				· · · · · · · · · · · · · · · · · · ·				
		V (27401				26A 10. FIELD AND POOL, OR WILDCAT			
4. LOCATION OF WELL ()	Farmington, Ne	in accordance wit	th any St	te requiremen	its.*)					
At surface 1180 FNL & 825' FWL —							Blanco Mesa Verde			
At proposed prod. zone							AND SURV	EY OR ARE	CA	
As Above							SEC 13	T29N	R6W	/
	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE*				12. COUNTY O			.E
N/A							Rio Ar	riba	NM	<u>:</u>
15. DISTANCE FROM PROI LOCATION TO NEARES	ST		16. No.	OF ACRES IN	LEASE		F ACRES ASSIGN	NED		
100000000 on 10100 on 10100							20	_		
			19. PRO	PROPOSED DEPTH 20. ROTA		TY OR CABLE TO	OLS			
OR APPLIED FOR, ON THIS LEASE, FT. N/A			6	6053 R		otary				
	hether DF, RT, GR, etc.)						22. APPROX.		K WILL S	TART*
6763 GR							1/1/78	<u> </u>		
23.	1	PROPOSED CASI	NG AND	CEMENTING	PROGRA	M				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	тоот	SETTING DI	СРТН		QUANTITY OF CEMENT			
12 1/4	9 5/8	32.3#		2001		125 sks				
8 3/4		20 #	_	3969		150 sks				
6 1/4	4 1/2	10.5#	.5# 3819-60		053		210 sks			
	•	•	•			•				
Selectively	perforate and s	timulate th	he Mes	a Verde	format	ion.				•
	be installed aft						nd cement	ed.		
	ent operations w									

The W/2 of section 13 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 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 depths. Give blowout preventer program, if any. 24. TITLE Drilling Engineer Richardson (This space for Federal or State office use) PERMIT NO. ____ APPROVAL DATE APPROVED BY TITLE . DATE _ CONDITIONS OF APPROVAL, IF ANY:

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. Operator Lease Well No. Northwest Pipeline Corporation San Juan 29-6 Unit 26A Unit Letter Section Township Range D 13 29N 6W Rio Arriba Actual Footage Location of Well: 1180 North 825 West feet from the line and feet from the line Ground Level Elev. Producing Formation Pool Dedicated Acreage: 6763 Mesa Verde **Blanco** 320 Acres 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? ☐ 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 necessary.). 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 con-825 D.E. Richardson Position Drilling Engineer Northwest Pipeline Corp. **SF 0**78278 November 8, 1977 Sec 13 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the some is true and correct to the best of my 0 knowledge and belief. Date Surveyed October 8,:1977 Fred B. Kerr Jr Certificate No. 3950

660

1320 1650

1980 2310

2000

1000

50 Q

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

OPERATIONS PLAN

San Juan 29-6 Unit #26A

I. NW/4 NW/4 Sec. 13, T29N, R6W LOCATION:

Rio Arriba County, N.M.

FIELD: Blanco Mesa Verde ELEVATION: 6763' GR

II. GEOLOGY:

A. Formation Tops:

Ojo Alamo: 27751 Cliff House: 54451 Kirtland: 29381 Menefee: 55491 Fruitland: 33781 Point Lookout: 5853' Pictured Cliffs: 36651 Total Depth: 6053 Lewis: 37691

B. Logging Program:

Gamma Ray-Neutron at T.D.

C. Coring Program:

D. Natural Gauges: Gauge at last connection above 5549',5853' and at total depth. Gauge any noticeable increases in gas

flow at depth other than those noted above.

LEASE NUMBER: SF 078278

III.

Anticipated starting date and duration of activities: Jan. 1, 1978, 2 weeks.

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

C. Mud Program:

a) Spud Mud: Water, lime and gel.

Surface to 3769'.

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

c) From 3769' to 3969'.

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

from 3969' to total depth with gas. d)

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"	3969 '	7"	20# K-55	3969'
6 1/4"	2284	4 1/2"	10.5# K-55	3819'-6053'

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 #26A
Page 2

- F. 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: 6000', 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 26A

- 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 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 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 #26A 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.

11-14-77 Date

D.E. Richardson Drilling Engineer

DER/ch

