SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved. Budget Bureau No.	42-R1425.
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			TED STATES			Other instru reverse s	ctions on ide)		1 No. 42-R1425.
		DEPARTMEN	T OF THE I	NTĖI	RIOR	•		5. LEASE DESIGNATION	-21578
		GEOLG	OGICAL SURV	ΕY			į	SF078278	AND SERIAL NO.
	APPLICATION	N FOR PERMIT	TO DRILL, I	DEEP	EN, OR	PLUG E	ACK	6. IF INDIAN, ALLOY	OR TRIBE NAME
1	a. TYPE OF WORK						i		
	b. Type of well		DEEPEN [i	PLUG BA	CK 🗌	7. UNIT AGREEMENT N San Juan 29-	
2		AS VELL X OTHER			INGLE	MULTIP ZONE	I.E	8. FARM OR LEASE NAME San Juan 29-	*
	Northwest Pip	eline Corporat	ion				:	9. WELL NO.	
3	. ADDRESS OF OPERATOR		· · · · · · · · · · · · · · · · · · ·					35A	
	P.O. Box 90 - Farmington, New Mexico 87401						10. FIELD AND POOL, OR WILDCAT		
							Blanco Mesa Verde		
\mathcal{D}							11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
	At proposed prod. zon As ab								
ī		AND DIRECTION FROM NEA	ADEST MORN OF POST					Sec. 15, T29N	
		· · · · · · · · · · · · · · · · · · ·	mest foun on ros	CAPIC	A			12. COUNTY OR PARISH	13. STATE
1	5. DISTANCE FROM PROPE	OSED*		16 N	O. OF ACRES	IN TRANS	17 10 1	Rio Arriba	N.M.
	LOCATION TO NEAREST PROPERTY OR LEASE I (Also to nearest drig	INE, FT. ;. unit line, if any)	875		NA NA	. LEASE		320	
1	18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. NA			(0011		RY OR CABLE TOOLS			
2	1. ELEVATIONS (Show whe	ether DF, RT, GR, etc.)					1	22. APPROX. DATE WOL	ek Watt eribre
	6731 ' GR					1-1-78			
2	3.		PROPOSED CASIN	G ANI	CEMENTI	NG PROCEA	M		
	SIZE OF HOLE		1		i		1		
-		SIZE OF CASING	WEIGHT PER FO	00T	SETTIN	G БЕРТН		QUANTITY OF CEMEN	 .,
	12 1/4"	9 5/8"	32.3#			00!		125 sks.	
_	8_3/4"		20#		39	<u>51'</u>		150 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 15 is dedicated to this well .

Gas is dedicated.

1/5/11				The second secon
B. Richardson	TITLE	Drilling	Engineer	DATE 11/7/77
This space for Federal or State office use)				
ERMIT NO.		APPROVAL DATE		
			:	COLVEN
PROVED BY	TITLE			DATE
CONDITIONS OF APPROVAL, IF ANY:		•	• # - 77"	1:6V 2 2 1977
and				15 CT F IN IN TOTAL

DER/ch

*See Instructions On Reverse Side

210 sks.

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 Well No. Pipeline Corporation San Juan 29-6 Unit 35A Northwest Unit Letter Section 15 29N Rio Arriba Actual Footage Location of Well: feet from the line and feet from the West Dedicated Acreage: 320 Acres Producing Formation Ground Level Elev. B1anco 6731 Mesa Verde 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 If answer is "yes," type of consolidation ____ No 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 contained herein Is true and camplete SF078278 Dale E. Richardson Position Drilling Engineer Northwest Pipeline Corp. November 7, 1977 NM 05220 Sec 15 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 same is true and correct to the best of my knowledge and belief. Date Surveyed SF020377 October 9. 1977 Fred B. Certificate No 3950

660

1320 1650

1980

2310

2000

1500

1000

50 Q

OPERATIONS PLAN

San Juan 29-6 #35A

I. LOCATION: NW/4 NW/4 Sec. 15, T29N, R6W LEASE NUMBER: SF078278

Rio Arriba County, N.M.

FIELD: Blanco Mesa Verde ELEVATION: 6731' GR

II. GEOLOGY:

A. Formation Tops:

Ojo Alamo	2791 '	Cliff House	54231
Kirtland	2946'	Menefee	5517'
Fruitland:	3346'	Point Lookout	5801'
Pictured Cliffs a	3626 '	Total Depth	6001'
Lewis	3751 '	· •	

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

C. Coring Program: None

D. Natural Gauges: Gauge at last connection above 5517', 5801', and at

total depth. Gauge any noticeable increases in gas

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, double gate, rated at 3000 PSI.

C. Mud Program:

a) Spud Mud: Water, lime, and gel.

b) Surface to 3751'.

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

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

c) From 3751' to 3951'.

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

d) From 3951' to total depth with gas.

IV. MATERIALS:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	Wt. & Grade	Depth Set
12 1/4"	200'	9 5/8"	32.3# H-40	200'
8 3/4"	3951'	7"	20# K-55	3951 '
6 1/4"	2050'	4 1/2"	10.5# K-55	3801'-6001'

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. 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 tuhing with seating nipple on 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 sacks of Class "B" with 1/4# gal flake/sk. 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% gal and 15.52 gal. water/sack. Tail in with 50 sacks Class "B" with 2% CaCl (65% excess to cover 0jo Alamo). WOC 12 hours. Run temperature survey after 8 hours. Test casing to 600 PSI.
- C. Production Liner 4 1/2" Use 210 sacks Class "B" with 1/4 cu. ft. of fine Gilsonite/sack. Precede cement with 20 bbls. water mixed with 3 sks. gel (70% excess to circulate liner). Set liner pack off & reverse out excess cement. Run 6 1/4" bit to top of liner & 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 35A

- 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 complete, 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 #35A 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.

*11-18-77*Date

D.E. Richardson Drilling Engineer

DER/ch



