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SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES						
DEPARTMENT	OF	THE	INTERIOR			

•		ED STATE		reverse si	ide)	30 - 0 39 - 21	559	
DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY						LL NO.		
APPLICATION				EN, OR PLUG E	ACK	SF 079851 6. IF INDIAN, ALLOTTEE OR TRIBE	NAME	
1a. TYPE OF WORK					-	7. UNIT AGREEMENT NAME		
DRII b. TYPE OF WELL	L X	DEEPEN		PLUG BA	CK 🗀		, .	
	SLL X OTHER			INGLE MULTIP	LE	San Juan 29-5 Uni	LT	
2. NAME OF OPERATOR	LL LXJ OTHER			JAE ZUNE		San Juan 29-5 Uni	it	
Northwest Pi	peline Corporat	tion				9. WELL NO.		
3. ADDRESS OF OPERATOR						12A		
P.O. Box 90 4. LOCATION OF WELL (Re	- Farmington, l	N.M. 874	01	State requirements *)		10. FIELD AND POOL, OR WILDCA	[™] <	
At Surface	FNL & 790' FWL			state requirements.		Blanco Mesa Verde 11. sec., T., B., M., OR BLK.		
At proposed prod. zone						AND SURVEY OR AREA		
As abov	•	:				Sec. 30, T29N, R5V	Į.	
14. DISTÂNCE IN MILES A		EST TOWN OR PO	ST OFFIC	r*		Sec. 30, T29N, R51	TE	
						Rio Arriba N.M.	<u> </u>	
15. DISTANCE FROM PROPO LOCATION TO NEAREST			16. N	O. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS/WELL		
PROPERTY OR LEASE L: (Also to Dearest drig	unit line, if any)	790 '	_	NA	W			
18. DISTANCE FROM PROPO TO NEAREST WELL, DE	ILLING, COMPLETED,	37.A	19. P	ROPOSED DEPTH	1	RY OR CABLE TOOLS		
OR APPLIED FOR, ON THE		NA	<u> </u>	5965'	10	Otary	START*	
6675						1-1-78		
23.	F	ROPOSED CAS	ING AN	D CEMENTING PROGR	AM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER	FOOT	SETTING DEPTH		QUANTITY OF CEMENT		
12 1/4"	9 5/8"	32.3#		200'		125 sks.		
8 3/4"	7''	20#		3885'		150 sks.		
6 1/4''	4 1/2"	10.5#	•	3735'-5965		210 sks.		
A BOP will be All subsequer The W/2 of Se Gas is dedica	e installed aft of the continuous was decided and its decided. PROPOSED PROGRAM: If drill or deeper directions	er the sur ill be con dicated to	face ducte this	plug back, give data on 1	NOV I	nd cemented. 1977 1. COM. NOV 1 6 1977 57. 3 ductive zone and proposed new prop	oductive	
SIGNED 1/E	Lichardon		רותו ש	Drilling Engi	neer			
	nardson ral or State office use)	· · · · · · · · · · · · · · · · · · ·					====	
PERMIT NO.				APPROVAL DATE				
APPROVED BY	AT TO ANY	1	TITLE			DATE		

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-85

		All distances mu	st be from	the outer bounds	ries of the	Section.			
Sperator			Le	ose					Well No.
Northwest 1	orthwest Pipeline Corporation San Juan 29-5 Unit					12A			
Unit Letter	Section	Township		Range	Range County				
D	30	29N		5W		Rio A	Arriba		
Actual Footage Loc	cation of Well:								
1030	feet from the No	orth lin	e and 7	90	feet from	m the	West		line
Ground Level Elev.			Pox	ol			/		ated Acreage:
6675	Mesa '	Verde	·	Blanco	0			3:	20 Acres
2. If more the interest a3. If more the interest a	han one lease i nd royalty). an one lease of communitization,		e well, o ip is ded -pooling.	utline each a icated to the etc?	nd identif well, hav	y the o	ownership (thereof	t below. f (both as to working owners been consoli-
this form i No allowa	if necessary.) ble will be assig	ned to the well un	til all in	terests have	been cons	solidate	ed (by cor	nmunit	(Use reverse side of ization, unitization, oved by the Commis-
	1			i I	·			CER	TIFICATION
790' @	1			 			tained h	yein is	that the information con- true and complete to the yedge and belief.
SF 0798	+ 				P. C.		Company Northy	ing E	rdson ngineer Pipeline Corp. , 1977
		Sec 30		OIL	ON 17 19 CON. CO DIST.	3	shown o notes of under m	n this p f actual y superv and co	y that the well location lat was plotted from field surveys made by me or vision, and that the same errect to the best of my belief.
C)			'i' NO\ 	V 1 6 19	77	and/or Land	er L, i Profes and Surve Ker	sional Engineer
							Certificate	∍ No.	Ų.√

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

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OPERATIONS PLAN

San Juan 29-5 Unit #12A

I. LOCATION: NW/4 NW/4 Sec. 30, T29N, R5W

Rio Arriba County, N.M.

LEASE NUMBER: SF 079851

FIELD: Blanco Mesa Verde

ELEVATION: 6675' GR

II. GEOLOGY:

A. Formation Tops:

Ojo Alamo: 2687 5415' Cliff House: Kirtland: 2850**'** 5485' Menefee: 3290' Fruitland: 5765 Point Lookout: Pictured Cliffs: 3570**'** Total Depth: 5965' 36851 Lewis:

B. Logging Program:

Gamma Ray-Neutron at T.D.

C. Coring Program:

None

Gauge at last connection above 5485',5765' and at . D. Natural Gauges:

total depth. Gauge any noticeable increases in gas

flow at depth other than those noted above.

DRILLING: 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.

b) Surface to 3685'.

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

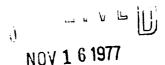
Ph: 8.5-9.5

c) From 3685' to 3885'.

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

Water Loss: 8-20 cc 8.5-9.5

d) from 3885' 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"	3885	7''	20# K-55	3885 ^{t.}
6 1/4"	2080'	4 1/2"	10.5# K-55	3735'-5965'

B. Float Equipment:

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

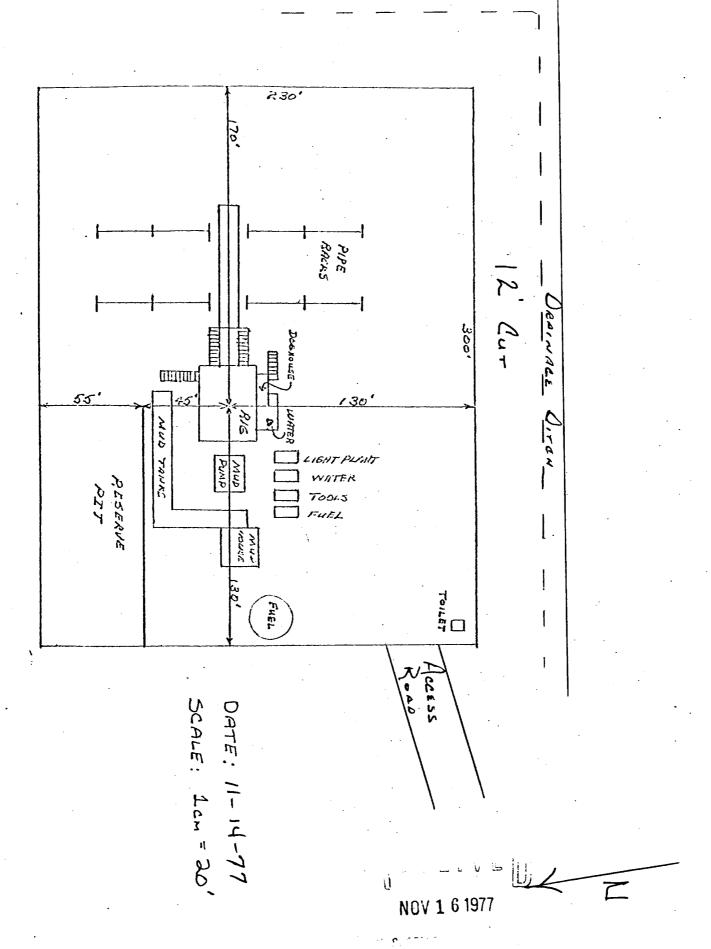
b) Intermediate Casing 7" - Dowell guide shoe (Code #50101-070) and self fill insert float collar (Code #53003-070). Seven (7) centralizers (Code #56011-070) spaced every other joint above the shoe.

- 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 neoprome 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 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.

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NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

for San Juan 29-5 Unit

Well Number 12A

- 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 29-5 Unit #12A 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

W.E. Richardson Drilling Engineer

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