SUEMIT IN TRIPLICATE*

Form approv Budget Fare		42-R142
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()		TED STATES	•	reverse side)	30-035	- 01566
•	DEPARTMENT	GICAL SURVE			5. LEASE DESIGNAT!	AND SERIAL NO.
	SF 080	30				
APPLICATION	Y FOR PERMIT	TO DRILL, D	EEPEN, OR PL	UG BACK	6. IF INDIAN, ALIOTIS	OR TRIBE NAME
1a. THE OF WORK		Drepekt [T 50.49	C DACK	7. UNIT AGREEMENT	CAMP.
	LL X	DEEPEN [) PLU	G BACK 🗌		
b. T THE OF WELL OR GRAND WELL W	AS ELL X OTHER		SINGLE ZONE	MULTIPLE D	San Juan 29-	
2. NAME OF OPERATOR	DIE CE				San Juan 29-	6 Unit
Northwest Pir	eline Corporat:	ion			9. WELL NO.	
3. ADDRESS OF OPERATOR	, <u>0111.0 00 1 p 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</u>				644	
P.O. Box 90 F	Farmington, New	Mexico 874	.01		10. FIELD AND POLL.	OR WILDCAT
4. LOCATION OF WELL (R	eport location clearly and	in accordance with	any State requiremen	ts.*)	Blanco Mesa	Verde -
820 FSL & 920 FEL					11. SEC., T., R., M., OR AND SURVEY OR A	FLK.
At proposed prod. zon	· 1980			•		•
As Above	7 00				SEC 9 T29N R	6W
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST	OFFICE*		12, COUNTY OR PARISH	13. STATE
	N/A				Rio Arriba	NM
15. D STANCE FROM PROPO LOCATION TO NEAREST			16. NO. OF ACRES IN		OF ACRES ASSIGNED THIS WELL	
PROPERTY OR LEASE I (Also to nearest drig		820	n/A		E/ 320	,
18. DISTANCE FROM PROP			19. PROPOSED DEPTH	20. ROT	MEY OR CABLE TOOLS	
TO NEAREST WELL, DRILLING, COMPLETED, OF APPLIED FOR, ON THIS LEASE, FT. N/A 6025					Rotary	
21. ELEVATIONS (Show who	ether DF, R!, GR, etc.)				22, APPROX, DATE WO	DEK WILL START*
6765 GR					1/1/78	
23.	I	PROPOSED CASING	G AND CEMENTING	PROGRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	OT SETTING DE	этн	QUANTITY OF CEME	NT
12 1/4	9 5/8	32.3	200	12	5 sks	
8 3/4	7	20	3939	1.5	0 sks	
6 1/4	4 1/2	10.5	3789-602	25 21	0 sks	
	ı	•	1	. 1		

Selectively perforate and stimulate the Mesa Verde formation.

A 30P will be installed after the surface casing has been run and cemented.

All subsequent operations will be conducted through the BOP.

The E/2 of section 9 is dedicated to this well gas is dedicated.



SIGNED TO THE DECK OF THE PARTY	andsa TITLE	Drilling Engineer	DATE 11-18-77
(This space for Federal or State office u	se)		
PERMIT NO.		APPROVAL DATE	
APTROVED BY	TITLE _		DATE TO THE TOTAL PROPERTY OF THE PROPERTY OF

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

		An maranc	es must be from a	ie datai notaldalies	Or the Beetron	·	
Nor thwest	Pipaline Cor	poration	1,ea	San Juan 29-	-6 Unit		well M74A
Unit Letter P	Section 9	Township 29N		Range 6W	County R 10	Arriba	
Actual Footage Loc 820	ation of Well:	South	line and	9 80	feet from the	East	line
Ground Level Elev. 6765	Producing For Mesa Ve		Poo	Blanc		Dec	dicated Acreage:
	e acreage dedica	ted to the s	subject well b	y colored penci	l or hachure	marks on the p	
interest ar	id royalty).				·	•	eof (both as to working
	an one lease of d ommunitization, u				ll, have the	interests of all	l owners been consoli-
[] Yes	No If an	swer is "ye	es;" type of co	nsolidation			
	is "no," list the finecessary.)	owners and	tract descripti	ons which have	actually be	en consolidated	l. (Use reverse side of
No allowal	ole will be assign					•	nitization, unitization, proved by the Commis-
					Samuel and Control	CI	ERTIFICATION .
	. !		Fee			tained herein	fy that the information con- Is true and complete to the owledge and builet:
	 			-		Nome D.E. Rich	ardson
	i		0		Š	Position Drilling	Engineer
						Company Northwest	Pipeline Corp.
	e e je					Date November	
		Sec	9				
				SF 0	80180	shown on this notes of actu under my supe	tify that the well location plat was plotted from field all surveys made by me or ervision, and that the same correct to the best of my discline.
 	+			- 🌡			•
	1			· • • • • • • • • • • • • • • • • • • •	80 '	Date Surveyed	8, 1977
	; ; ;		SF 080377	8201		3	eside nat Engliseer veyor
0 330 660	90 1320 1650 198	n 2310 2640	2000	1500 1000	500 0	Certificate No.	

OPERATIONS PLAN

San Juan 29-6 #64A

I. LOCATION: SE/4 SE/4 Sec. 9, T29N, R6W

Rio Arriba County, N.M.

LEASE NUMBER: SF 080180

FIELD: Blanco Mesa Verde <u>ELEVATION:</u> 6765' GR

II. GEOLOGY:

A. Formation Tops:

Ojo Alamo:	2777 '	Cliff House:	5445
Kirtland:	2915 '	Menefee:	5547 '
Frullland:	3388 '	Point Lookout:	5825 '
Pict red Cliffs:	3660 '	Total Depth:	6025 '
Lewis:	3739 '		·

B. Logging Program:

Gamma Ray-Neutron at T.D.

C. Coring Program:

None

D. Natural Gauges:

Gauge at last connection above 5547',5825' and at total depth. Gauge any noticeable increases in gas flow at depth other than those noted above.

riow at depth other than thos

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 3739'.

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

c) From 3739' to 3939'.

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

Ph: 8.5-9.5

d) from 3939' 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"	3 939 '	7"	20 # K-55	39391
6 1/4"	2086'	4 1/2"	10.5# K-55	3789'-6025'

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 #64A 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 scating nipple on top of bottom joint. Expendable check value 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 64A

- 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 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.

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: #64A 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.

1/- 18-77 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

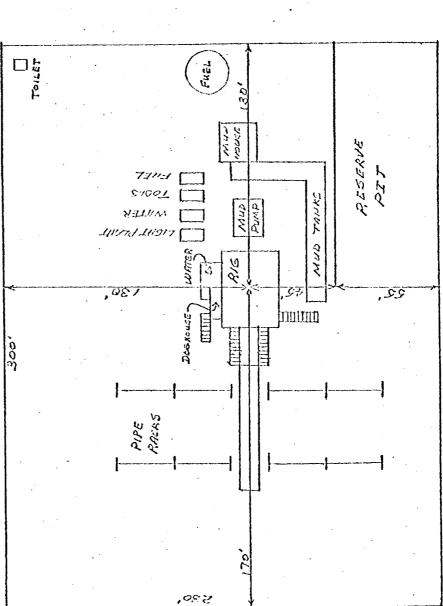
the process of determining ownership, and should have the necessary information

available within two (2) weeks, at which time we will submit the proper form.

Thank you for your cooperation,

D. E. Richardson

DER/br



1cn = 20' SCALE: DATE:

