## SUBMIT IN TRIPLICATE\*

Form approved, Budget Bureau No. 42-R1425,

(Other instructions on reverse side)

30.039.21564

DEPART	5. LEASE DESIGNATA AND SERIAL NO.				
C	SF 080.19				
APPLICATION FOR PER	6. IF INDIAN, ALLOTTEE OF TRIBE NAME				
DRILL X	DEE	PEN 🗌	PLUG BAG	CK 🗌	7. UNIT AGREEMENT NAME
b. Type of Well.			INGLE MULTIP	LE	San Juan 29-6 Unit
OIL GAS WELL O	THER .		ONE L ZONE		San Juan 29-6 Unit
					9. WELL NO.
Northwest Pipeline Corp. 3. ADDRESS OF OPERATOR	oration				144
P.O. Box 90 Farmington. 4. LOCATION OF WELL (Report location cle	New Mexico	87401	State requirements.*)		10. FIELD AND POOL, OR WILDCAT
At su-face  1830' FSL & 1150' FEL  At proposed prod. zone		Blanco Mesa Verde 11. SEC, T., R., M., ON BLK. AND SURVEY OR AREA			
As Above 14. DISTANCE IN MILES AND DIRECTION F	DOM NEADVOY FOWN	OR POST OFFI	T. 8		SEC 7 T29N R6W
	ROM NEAREST TOWN	on rost orri	. <b></b>		
N/A 15. DISTANCE FROM PROPOSED*		16. N	O. OF ACRES IN LEASE		Rio Arriba NM
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg, unit line, if an	y) 1150'		N/A	E	320
18. DISTANCE FROM PROPOSED LOCATION*		19. P	ROPOSED DEPTH	20. R9TA	RY OR CABLE TOOLS
TO PEAREST WELL, DRILLING, COMPLET OR APPLIED FOR, ON THIS LEASE, FT.		•	6010		Rotary
21. ELEVATIONS (Show whether DF, RT, GF	t, etc.)				22. APPROX. DATE WORK WILL START
6798 GR.					1/1/78
23.	PROPOSEI	CASING AN	D CEMENTING PROGRA	AM	
SIZE OF HOLE SIZE OF CAS		IT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
12 1/4 9 5/8"		· 3#	200	_	25 sks
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		# •5#	3972 3822-6010	150 sks 010 210 sks	
Selectively perforate & A BOP will be installed All subsequent operation The E/2 of section 7 is	after the s	surface o conducted	casing has been I through the BO	run an DP.	
IN ABOV? SPACE DESCRIBE PROPOSED PROG	nuv. If managed i	s to donnon ur	plug back give data (in r	Dresent Drage	NOV 2.3 13
zone. If proposal is to drill or deepen preventer program, if any.  24.	directionally, give	pertinent data	on subsurface locations a	nd measure	d and true vertical degras. Give blowou
SIGNED LE. Lie	Lardon	∠ TITLE	Drilling Engine	eer	DATE 11-18-77
(This space for Federal or State office					
PERMIT NO.			APPROVAL DATE		
a constant was					THE FURTHER
APPLOVED BY		TITLE		<del> </del>	DATE
CONDITIONS OF APPROVAL, IF ANY:			•		1011 0 0 1077
0120			. •		NOV 2 2 1077

UNITED STATES

\*See Instructions On Reverse Side

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# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Effective 1-1-65 All distances must be from the outer boundaries of the Section. Well Ho. Operator San Juan 29-6 Unit 14A Northwest Pipeline Corporation Range Township Section Unit Letter 6W Rio Arriba 29N Ι A tual Footage Location of Well: East South 1150 1830 feet from the feet from the line and Dedicated Acreage: Producing Formation Pool Ground Level Elev. 320 Blanco 6798 Mesa Verde 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? 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and com best of my knowledge and bel D.E. Richardson Drilling Engineer Northwest Pipeline Corp. November 7, 1977 Sec 7 I hereby certify that the well location shown on this plat was platted from field notes of actual surveys made by me or 1150' under my supervision; and that the same is true and correct to the best of my knowledge and belief. Date Surveyed October 8, 1977 Registered Professional Engineer SF 080379 Fred B. Kerk Jr.

Certificate No. 3950

500

2000

1500

1000

660

.90

1320 1550

1980 2310

2640

## OPERATIONS PLAN

# San Juan 29-6 #14A

NE/4 SE/4 Sec. 7, T29N, R6W I. LOCATION:

Rio Arriba County, N.M.

LEASE NUMBER: SF 080379

ELEVATION: 6798' GR FIELD: Blanco Mesa Verde

#### GEOLOGY: II.

A. Formation Tops:

		•	
27631		Cliff House:	5454
2943		Menefee:	55421
3421'	*	Point Lookout:	5803'
3693 <b>'</b>	•	Total Depth:	6010'
3772 <b>'</b>			
	2943' 3421' 3693'	2943' 3421' 3693'	2943' Menefee: 3421' Point Lookout: 3693' Total Depth:

Logging Program:

Gamma Ray-Neutron at T.D.

Coring Program: C.

Natural Gauges:

Gauge at last connection above 5542', 5803' and at 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: 1-1-78, 2 weeks.

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

Mud Program:

a) Spud Mud: Water, lime and gel.

Surface to 3772'.

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

Ph:

8.5-9.5

c) From 3772' to 3972'.

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

Water Loss:

8-20 cc 8.5-9.5

from 3972' to total depth with gas.

#### MATERIALS: IV.

Casing Program:

•	04041100	0002110 - 1-0-1-11							
	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"	3972 <b>'</b>	7''	20# K-55	3972'				
	6 1/4"	2038'	4 1/2"	10.5# K-55	3822'-6010'				

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 shoc.

- 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: 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% gc1 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 14A

- 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 an attract 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.

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/-/8-77

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

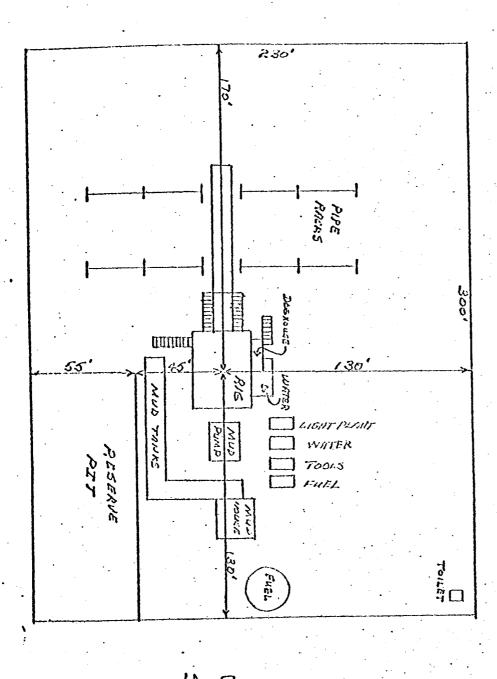
the process of determining ownership, and should have the necessary information

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

Thank you for your cooperation,

D. E. Richardson

DER/br



DATE:

LE: 1cm = 30

