## SUBMIT IN TRIPLICATE\*

Form approved. Budget Forcau No. 42-R1425

(Other instructions on reverse side)

	,,		14.77	Am. McT. Trible
30	-7)	39-	â	1558

DEPARTMENT ( THE INTERIOR						5. LEASE DESIGNATION AND SO THE SOIL	
	<b>G</b> EO LO	CHOAL BURVE	ΞY			SF 073282	
A (13)	FG? ARIAS	O DRELL, L	DEEPEN, OR I	PLUG BA	4CK	6. IF INDIAN, MILE AND GROWN SE NAME	
	ILL [x]	DEEPEN [	□ PL	.UG BAC	K 🗀 📗	7. UNIT AGREEMEN: SAME	
b. Type of well	•					San Juan 29-5 Unit	
	AS X OTHER		ZONE	MCLT-O'L.	F. []	8. PARM OR 10	
2. NAME OF OF SATOR	a. 1 <i>5</i>	•				San Juan 29-5 Unit	
Northwest Pij	9. WELL NO.						
P.O. Box Y) -	27A						
	eport le deady and		,			10. FIELD AND TOOL, OR WORKS.	
4. 16: 24 for 65 were cr At surface 160 (		Blanco Mesa Verde  11. SEC., T., R., T., ON FOR.  AND SURVEY OF ALLY					
At proposed production $\hat{\Lambda}_S$ . E	above					Sec. 19, T29%, T39	
14. BUSTANCE IS MILES.	AND DEFCTION FROM NEA	REST TOWN OR 14181	r Offick*	And the state of t		Rio Arriba R.M.	
15. DISCANDE E OM PROEL LOCATION NO NEARES			16. NO. OF ACRES IN	LEASE		F ACES ASSIGNED	
PROPERTY OF TENSE I	INE, FT.	90'	ИV		TO TE	320 ·	
18. DISTANC TROM PROP TO NEAR FOR WELL, D OR APPLIED FOR, ON TH	Δ	(022)		-	ev os exalle rows		
21. PLEVATIONS (Show wh-	ether DF, RT, GR, etc.)			!		22. APPROX, PATE WORK W START*	
6711 <b>'</b>	GR		•			1-1-78	
23.		PROPOSED CASIN	G AND CEMENTUS	G FROGRAM	VI	······································	
6770 ( 1) 77			1 .			·	
12 3 4 4 T	9 5/8"	32.3#	200			QUANTITY OF CE 2	
8 3/4"	7"	20-37	3921			125 sks. 150 sks.	
6 1/4"	4 1/2"	10.5/	$\frac{3771}{3771}$			210 sks.	
0 1/4	1 1/2	10.5"	3,71			210 383.	
A BOP will be	perforate and second installed after the perforations we ection 19 is desired.	er the surf	ace casing haucted through	as been n the BO	run ar	od cemented.	
zone. If proposal to previous program habitation 24.	drill a desper y coston	ally, give pertinent	en or plug back, give data on subsurface b	locations and	ser prodi measured	ective zone and proposed new productive and true vertical depths. Give blows.at	
PERCHIT NO.	and the second s		APPROVAL DAT	Е			

UNITED STATES

\*See Instructions On Reverse Side

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

All distances must be from the outer boundaries of the Section. y Brathr Sea Juan 39-5 Unit est Pipeline Comencition logeli nit Lett Section Township Range County 51 3.9 29ii Rio Arriba Actual : rije Location of Well: feet frea Camation Pre Blanco 1. Outling the acroage dedicated to the subject well by colored pencil or hachare marks on the plat let we 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (bean 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 owner been consultdated by communitization, unitization, force-pooling, etc? Yes 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, until cation, forced-pooling, or otherwise) or until a non-standard unit, climinating such interests, has been approved by the Commis-CERTIFICATION. I hereby certify that the int D.E. Richard O Drilling Eng. Northwest Pipeline Corp. Movember 9, Sec 1.9 I hereby certify the the well launtion shown on this plot was plots if from field notes of actual surveys me on a me or under my supervision, and first the same SF 078282 is true and correct to the best of my knowledge and belief. 1.0/161977 Date Surveyed October 2, 19/ Register J Professional and/or Land Surveyor 超位主 Certificate No.

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## OPERATIONS PLAN

## San Juan 29-5 Unit #27A

I. NE/4 SE/4 Sec. 19, T29N, R5W LEASE NUMBER: SF 078282

Rio Arriba County, N.M.

FIELD: Blanco Mesa Verde

ELEVATION: 6711' GR

Nuv 1 6 1977

#### CEOLOGY: II.

A. Formation Tops: 2805<sup>1</sup> 54911 Ojo Alamo: Cliff House: 2886° 5521**'** Kirtland: Menefee: 3326 Point Lookout: 5811' Fruitland: 3606 Total Depth: 6011' Pictured Cliffs: 3721 Lewis:

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

C. Cowing Program: Mone

"biural Gauges: Gauge at last connection above 5521',5811' and at a D.

total depth. Gauge any noticeable increases in gas

flow at depth other than those noted above.

#### HI. DRILLING:

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

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

## C. Mud Program:

- Spud Mud: Water, lime and gel. a)
- Surface to 3721.

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

c) From 3721' to 3921'.

Viscosity: 35-45 sec/qt.

Weight: 8.5-9.5 #/gal. 8-20 cc

Water Loss:

8.5-9.5

from 3921' 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"	392%	7''	20# K-55	392 <b>1</b> '
6 1/4"	2090'	4 1/2"	10.5# K-55	3771'-6011'

# B. 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 froat 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) Line: 4 1/2" Larkin geyser shoe (Fig. 222) and Larkin flapper type float collar (Fig. 404). Brown liner hanger with neopresse pack off.
- C. Tubing Program: 5975', of 2 3/8", 4.7#, EUE, K-55 tubing with scaling nipple on top of bottom joint. Expendable clack valve on bottom.
- D. Well Head Equipment: Cray well head. Gray representative to set slips and make cut off.

## V. CEMENTANG:

- A. Surface Casing 9 5/8" Use 125 sks. Class "B" with 1/4# gel flake per sack and 3% CaCl (300% excess to circulate). MOC 12 hours. Test surface casing to 600 PSI for 30 minutes.
- B. Intermed ate 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 cut. 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 J/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 tipe
  ing to clean out liner. Perforate 18 hours after
  plug is down.

NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

for the San Juan 29-5 Unit

Well Number 27A

- 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 Reeds: 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 central runoff and soil erosion. Drainage facilities may include ditcles, 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 Trak Batteries; Production Facilities; and Production, Carlyoning and Service Lines: See attached topographic map for locations of existing and proposed gas gattering lines.
- 5. Location and Type of Water Supply: Water needed for the drilling open ion will be hauled from the San Juan 29-6 Unit Water Well located in the Su/- 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 an leveled. The earthen pits will not be located or neveral 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 seed. so close as possible for any above ground equipment while still allowing for a cess to the equipment. Seeding will be done within one year after drilling is completed and during the period from July 1 through September 15. As adding will be done with seed Mixture #1.

All equipment above ground will be painted a non-glare, non-reflective, non-rehalking 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.

Malti-Poin: Surface Use Plan
San Juan 25 5 Unit=1777\
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 are earthen screen will be constructed to protect the vegetation. All liquidations the line will be contained at the site unless otherwise specified by the serface agency's representative.

The area covered by the location and proposed access raod is gently sloped with scattered brush and some grasses.

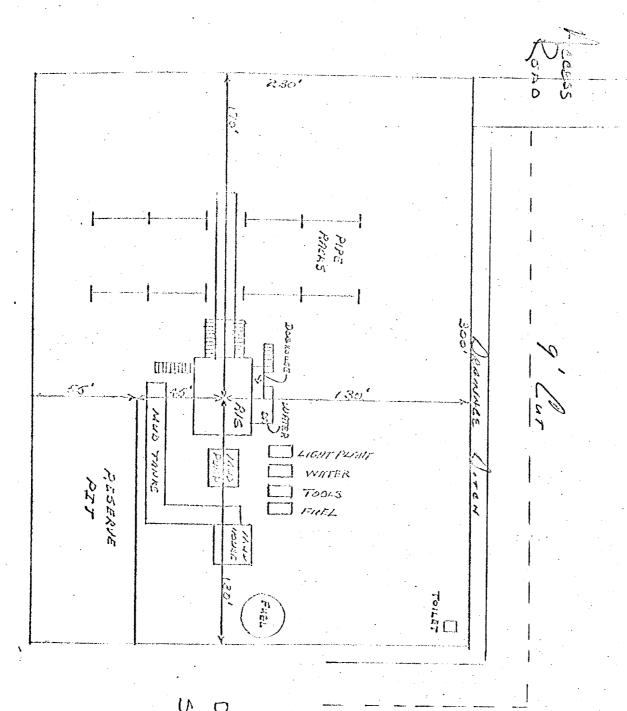
- 12. Operator's Representative: D.E. Richardson, P.O. Ecx 90 Farmington, New Mexico 87401. Phone: 327-5351 Extinsion #38.
- 13. Certification:

I hereby certify that I have inspected the proposed drills te and access route; that I be 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

B.E. Rickerdson Drilling Engineer

DER/ch



DATE: 11-14-77 SCALE: 1cm = 20'

Nov 1 6 1977

