SUBMIT IN THIPLICATE* (Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

30-039-212114

							_	s 4 4	
١	5.	J.P.	ASE	DES	IGNA	TION	AND	SERIAL	NO.
1									
		SE	' ሰ	080	377	7			
-	,-				- ' -	1 6 6 6 6 6			

APPLICAT	TION FOR PERM	IT TO DRIL	L, DEEPI	N, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK	DDU L	DEEPI	- NI []	DI UC D	ACK 🗆	7. UNIT AGREEMENT NAME
b. TYPE OF WELL	DRILL X	DEEP	:N L	PLUG B	ACK L	San Juan 29-6 Unit
OIL U	GAS X OTHE	R		NGLÉ MUI	TIPLE	8. FARM OR LEASE NAME
2. NAME OF OPERAT						San Juan 29-6 Unit
Northwest	Pipeline Corpo	ration				9. WELL NO.
3. ADDRESS OF OPER						72A
P.O. Box	90, Farmington,	New Mexic	o 87401	-		10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WE	LL (Report location clearly	and in accordan	ce with any	State requirements.*)		Blanco Mesa Verde
	1450' F	NL & 1620'	FWL			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed pro	d. zone					
	As above					Sec. 22, T29N, R6W
14. DISTANCE IN M	ILES AND DIRECTION FROM	NEAREST TOWN O	R POST OFFIC	E*		12. COUNTY OR PARISH 13. STATE
			1.10 %	on tongo ty vision	1 17 10	Rio Arriba N.M.
15. DISTANCE FROM LOCATION TO N	EAREST		10. N	O. OF ACRES IN LEASE		OF ACRES ASSIGNED THIS WELL
	st drlg. unit line, if any)	920'		NA ————————————————————————————————————		320
TO NUAREST W	I PROPOSED LOCATION* ELL, DRILLING, COMPLETED,	37.4	19. Pi	ROPOSED DEPTH	20. ROTA	ARY OR CABLE TOOLS
	ON THIS LEASE, FT.	NA NA	<u> </u>	5656'	<u> </u>	Rotary 22. APPROX. DATE WORK WILL START*
ZI. ELEVATIONS (She	ow whether DF, RT, GR, et	6365 ' GR				April 20, 1977
23.					· i	April 20, 1977
2.5.		PROPOSED	CASING AN	O CEMENTING PRO	GRAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT	PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
12 1/4"	9 5/8"	36	=	2001		125 sks.
8 3/4"	7''	20		3561'		150 sks.
6 1/4"	4 1/2" L	iner 11	• 6	3411'-T.D		210 sks.
A BOP will All subset The W/2 of Gas is de	equent work will of Section 22 is edicated.	after the be conduc dedicated	9 5/8" sted thro	surface casin bugh the BOP.	g has bee	en run and cemented.
preventer program 24.		etionary, give per	TITLE	Drilling Eng	-	ed and true vertical depths. Give blowout
J,	Slattery		11110			
(This space fo	r Federal or State office u	se)				
PERMIT NO.				APPROVAL DATE		
						2.00
APPROVED BY CONDITIONS OF	APPROVAL, IF ANY:		TITLE			DATE
	0020		,	11-		

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section Well No. Operator Lease San Juan 29-6 Unit 72A Northwest Pipeline Corporation Hange County Section Unit Letter Rio Arriba 6W 29N Actual Footage Location of Well: <u>1</u>620 West feet from the line feet from the North line and Dedicated Acreage: Producing Formation Ground Level Elev. 320 **Blanco** Acres 6365 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? 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 complete to the best of my knowledge and belief. 16201 72A Position Drilling Engineer Northwest Pipeline Corp. SF 080377 March 3, 1977 22 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. February 10 Registered Professional Engineer Certificate No 3950

2000

1320 1650

660

1980 2310

* REHABILITATION AGREEMENT

Lease No.:	SF 080377	: Well Nam	ne and No.:	San Juan 29-6 Unit #72A
Location:	SE' NW & Se	ec. 22, T.	_	6 W.
			-	•
• Northwest	Pipeline Corp	oration 011	Company inte	ends to drill a well on sur-
face owned	by Porter	Smith		. The lessee/operator
agrees to c	omplete the f	following rehabi	litation work	if the well is a producer:
∑/ Yes	<u>/</u> / No	Maintain acces	s road and pr	ovide adequate drainage to
· <u>//</u> Yes	<u>//</u> No	Reshape and resupport facili		in excess of the pump and
Other requir	rements:			
-		•	· · · · · · · · · · · · · · · · · · ·	
The following	ng work will	be completed wh	en the well i	s abandoned:
<u>√x</u> / Yes	// No	Site will requ topography.	ire reshaping	to conform to existing
<u>√X</u> / Yes	// No	Pit will be for topography.	nced until dr	y, then filled to conform to
\int_{X} / Yes	// No	Entire disturbed following seed		
• .	. •	Mixture #1		
Yes		Access road will the same seed in		itated and reseeded using ove.
// Yes	/ / No	Access road wil	11 remain for	landowner's use.
V		•		·
Other requir	rements:		•	
Landowner			Operator/1	Lessee
Name:	Porter Smith		Name:	Northwest Pipeline Corporation
Address:	616 E. Blanc	0	Address:	P.O. Box 90
City: State:	Aztec New Mexico		City: State:	Farmington, New Mexico
Telephone:	334-6773		Telephone:	
Date:	3-3-77		Date:	3-3-77
/X/ Yes	/ No	T const.	didention has	has discussed with the
<u>I</u> v res	// No	surface owner.	<i>(</i>)	s been discussed with the
			1 . T. 5%	attery

This agreement covers rehabilitation requirements only and does not affect any other agreements between the lessee/operator and surface owner.

NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

for the San Juan 29-6 Unit

Well Number #72A

- 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 pad.
- 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. The pipeline will be constructed adjacent to the area cleared for the access road.
- 5. <u>Location and Type of Water Supply:</u> 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 buried 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. <u>Well Site Layout</u>: 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 29-6 Unit #72A 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 road is gently sloped with scattered brush and some grasses.

12. Operator's Representative: J.P. Slattery, P.O. Box 90, Farmington, New Mexico 87401, Phone 327-5351 Extension 62.

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.

Drilling Engineer

JPS/ks

OPERATIONS PLAN

San Juan 29-6 Unit #72A

Rio Arriba County, N.M.

I. LOCATION: NW/4 Sec. 22, T29N, R6W

LEASE NUMBER: SF 080377

FIELD: Blanco Mesa Verde

ELEVATION: 6365 GR

II. GEOLOGY:

A. Formation Tops:

San Jose:	Surface	Cliff House:	5051 '
Ojo Alamo:	2380 '	Menefee:	5144
Kirtland:	2561 '	Point Lookout:	5456 '
Fruitland:	3014	Total Depth:	5656 '
Distured Cliffe.	22/61	-	

Pictured Cliffs: 3246' Lewis: 3361'

B. Logging Program: Gamma Ray-Induction and Density at T.D.

C. Coring Program: None

D. Testing Program: None

III. DRILLING:

- A. Anticipated starting date and duration of activities: April 20, 1977. Operations will last about 15 days.
- 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 3481'

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

Ph:

8.5-9.5

c) From 3481' to 3681'

Viscosity: 36-45 sec/qt. Weight: 8.5-9.5 #/gal. Water Loss: 6 - 12 cc Ph: 8.5-9.5

d) From 3681' to total depth with gas.

IV. MATERIALS:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	Wt. & Grad	de <u>Depth Set</u>
12 1/4"	200*	9 5/8"	36# K-	55 200 '
8 3/4"	3561 '	7''	20# K-	55 3561 '
6 1/4"	3561'-T.D.	4 1/2"	10.5# K-	55 3411'-T.D.

Operations Plan San Juan 29-6 Unit #72A Page 2

B. Tubing Program: 5600', 2 3/8", 4.7#, K-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom.

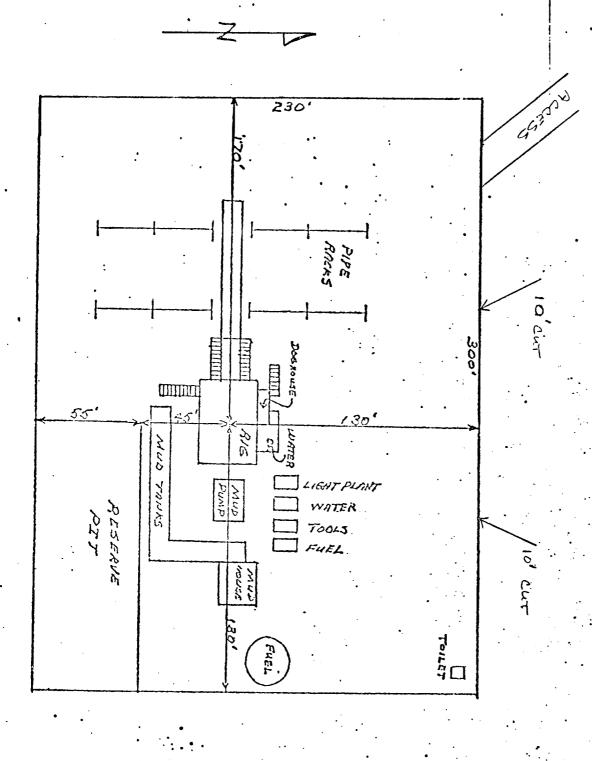
V. CEMENTING:

- A. Surface Casing 9 5/8" Use 125 sks. CL. "B" w/1/4# gel flake/sk. & 3% calcium chloride (100% excess to circ.) WOC 12 hrs. Test surface csg. to 600 PSI for 30 min.
- B. Intermediate Casing Use 100 sks. Cl. "B" 65/35 poz w/12% gel & 15.52 gal. water/sk. Tail in w/50 sks. Cl. "B" w/2% calcium chloride (65% excess to cover 0jo Alamo). WOC 12 hrs. Run temp. survey after 8 hrs. Test csg. to 600 PSI.
- C. Production Liner 4 1/2" Use 210 sks. C1. "B" w/4% gel & 1/4 cu. ft. of fine Gilsonite/sk. Precede cmt. w/20 bbls. water mixed w/3 sks. gel (70% excess to circ. liner). Set liner pack off & reverse out excess cmt. Run 6 1/4" bit to top of liner & pressure test (test 12 hrs. after plug is down). Lay down DP & run 3 7/8" bit on 2 3/8" EUE tubing to clean out liner. Perforate 18 hrs. after plug is down.

JPS/ks

SAN JUAN 29-6 UNIT #72A

THUCST PIPELINE



DATE: 3-3-77

