SUBMIT IN TRIPLICATE*

Form approved, Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

UNITED STATES

		ED STATES		reverse s	ide)	30-039-21494	
DEPARTMENT OF THE INTERIOR						5. LEASE DESIGNATION AND SERIAL NO.	
	GEOLOG	SICAL SURVI	EY	* /		SF 078739	
_ APPLICATION	Y FOR PERMIT T	O DRILL, I	DEEPE	N, OR PLUG E	3ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TYPE OF WORK	LL 🖾	DEEPEN [PLUG BA	רע ר	7. UNIT AGREEMENT NAME	
b. TYPE OF WELL	LL 🗀	DEEFEIN (FLUG BA		San Juan 30-5	
	AS X OTHER			NGLE MULTIF	LE	8. FARM OR LEASE NAME	
2. NAME OF OPERATOR	<u> </u>					San Juan 30-5	
Northwest 5	Pipeline Corpora	tion				9. WELL NO.	
3. ADDRESS OF OPERATOR						62	
) - Farmington,			37401		10. FIELD AND POOL, OR WILDCAT	
A A	eport location clearly and FNL & 1840 FE		th any S	tate requirements.*)		Blanco Mesa Verde 11. sec., t., r., w., or blk. AND SURVEY OR AREA	
At proposed prod. zon	Same as above	·				Sec. 21, T30N, R5W	
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICE	2.●		12. COUNTY OR PARISH 13. STATE	
						Rio Arriba N.M.	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest dely, unit line, if any)			16. NO	NA NO. OF ACRES IN LEASE 17. N		O. OF ACRES ASSIGNED O THIS WELL 320	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DEBLIANC, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.			19. га	5770	20. ROTARY OR CABLE TOOLS ROTARY		
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.) 6409 GR					22. APPROX. DATE WORK WILL START* 11-16-77	
23.	PI	ROPOSED CASIN	NG ANI	CEMENTING PROGR.	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	оот	SETTING DEPTH	1	QUANTITY OF CEMENT	
12 1/4"	9 5/8"	32.3#		200	-	125 sks.	
8 3/4"	7''	20#		3610		. 150 sks.	
6 1/4"	4 1/2"	10.5#		3460-5770		210 sks.	
A BOP wil	ely perforate an Il be installed . All subsequen	after the	surfa	ace casing has	been n	run and	
The E/2 o	of Section 21 is	dedicated	to t	his well.	The State of the S	The same of the sa	
				for the second		Marie Company	
Gas is de	edicated.			<i>I</i> .	**		
						700A+	
			,	Jan 1	3.57.	3	
				The state of the s	Dia		
	daill or deepen directional					ductive zone and proposed new productive dand true vertical depths. Give blowou	
24.	··						
	Shatten		1	Orilling Engine	or	B-11-27	
(This space for Fede	Hartely office use)	TIT	rle <u> </u>	STATIS DISTING	:C1	DATE TO T	
PERMIT NO.				APPROVAL DATE			
S/ch		po v re	rle			DATE	
CONDITIONS OF APPROV	AL, IF ANY:	TH				DATE	

*See Instructions On Reverse Side

All distances must be from the outer boundaries of the Section.

Operator			Lease			Well No.
Morthwest Pipeline Corporation				Juan 30-5	62	
	it Letter Section Township			Range County SW Rio Arr		ha
G Actual Frotage Loc	21 ation of Well:	30N		ow.	Rio Arril	·
1740	feet from the No	orth line o	ոժ 1840	fee	from the Eas	st Hne
Ground Level Elev.	Producing For Mesa		Pool	Blanco		Dedicated Acrospor
61,09				····		Acres
1. Outline the	e acreage dedica	ted to the subject	well by co	lored pencil of	r hachure mark	s on the plat below.
	an one lease is and royalty).	dedicated to the v	vell, outline	e each and ide	ntify the owner	rship thereof (both as to working
		ifferent ownership mitization, force-po		d to the well,	have the intere	ests of all owners been consoli-
Yes	No If a	nswer is "yes," typ	e of consol	idation		
			-			
	is "no," list the f necessary.)	owners and tract de	escriptions	which have ac	tually been co	onsolidated. (Use reverse side of
	•	ed to the well until	all interest	te have been o	onsolidated (by communitization, unitization,
	-					is been approved by the Commis-
sion.	0.		·		·	
		Programme of the company	And the state of t	The state of the s	and the second	CERTIFICATION
	İ			 GE 0707	120	
	ļ			SF 0787	39	hereby certify that the information con-
	. [1	缓	ained herein is true and complete to the
	1	e de la companya de l	o <u>t</u>	1	. <u>В</u> Б	est of my knowledge and belief.
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	1			1	Pas	sition Station
,	1		6	1840'		Drilling Engineer
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	1 7			1	Dat	orthwest Pipeline Corp.
	i i i			1	Bat	8-10-77
	1 - 1	Sec		 - 		
	1	21		i	*	
				1	2 1	hereby certify that the well location hown on this plat was plotted from field
				1	83 1	otes of actual surveys made by me or
	1			1	- ξ υ.	nder my supervision, and that the same
1				1	€	s true and correct to the best of my
	1	***************************************		1	k.	nowledge and belief.
	+			T		The state of the s
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	I					June 21, 1977
	l			i	i de la companya di seria di s	gistered Profyssional Engladt
	1	Ž.			and	Vor Land Surveyor
	l 1				10	Fred B. Ker Jr.
					1	rificate No.
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OPERATIONS PLAN

San Juan 30-5 Unit #62

I. LOCATION: SW/4 NE/4 Sec. 21, T30N, R5W LEASE NUMBER: SF 078739

FIE.D: Blanco Mesa Verde ELEVATION: 6409' GR

II. GEOLOGY:

A. Formation Tops:

Ojo Alamo:	2433 '	Cliff House:	5250 ¹
Kirtland:	2593 '	Menefee:	5330 '
Fruitland:	2960 ¹	Point Lookout:	5570 '
Pictured Cliffs:	3190 '	Total Depth:	5770 '
Lewis:	3460¹		

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

C. Coring Program: None

D. Natural Gauges: Gauge at last connection above and at total depth.

Gauge any noticeable increases in gas flow at depth.

other than those noted above.

III. DRILLING: .

A. Anticipated starting date and duration of activities:

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 3460

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

c) From 3460 to 3660

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

Ph: 8.5-9.5

d) From 3660 to total depth with gas.

IV. MATERIALS:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	Wt. & Grade	Depth Set
12 1/4"	200'	9 5/8"	32.3# H-40	2001
8 3/4"	3610 '	7"	20# K−55	3610'
6 1/4"	5770 '	4 1/2"	10.5# K-55	3460-5770

B. Float Equipment:

a) Surface casing 9 5/8" - B & W Reg. Patrern 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. Place float collar one joint above shoe.

- B. Float Equipment cont.
 - 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: 5700' 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/sk. and 3% CaCl (100% excess to circulate). WOC 12 hours. Test surface csg. to 600 PSI for 30 min.
- B. Intermediate Casing 7" Use 100 sks. Class "B" 65/35 poz with 12% gel and 15.52 gal. water/sk. Tail in with 50 sks. Class "B" with 2% CaCl (65% excess to cover Ojo Alamo). WOC 12 hours. Run temp. survey after 8 hours. Test csg. to 600 PSI.
- C. Production Liner 4 1/2" Use 210 sks. Class "B" with 4% gel and 1/4 cu.
 ft. of fine Gilsonite/sk. Precede cmt. with 20
 bbls. water mixed with 3 sks. gel (70% excess to
 circulate liner). Set liner pack off & 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 & run 3 7/8" bit on 2 3/8"
 EUE tubing to clean out liner. Perforate 18 hrs.
 after plug is down.

NORTHWEST PIPELINE CORPORATION

MULTI-POINT SURFACE USE PLAN

for the San Juan 30-5 Unit

Well Number 62

- 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 Valls: 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. <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, Gray.

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 30-5 Unit #62 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 earthern 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:

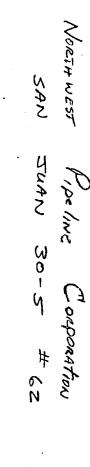
I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will 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.

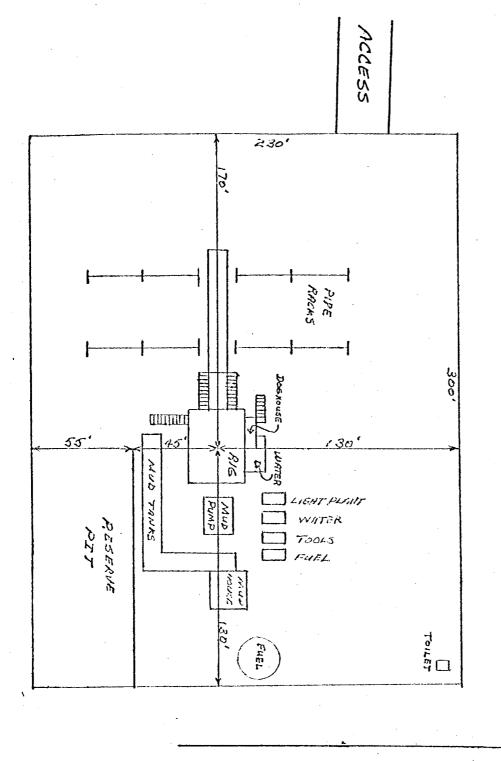
8-10-77

Date

Drilling Engineer

JPS/ch





Z

WATER

DIVERSION

1cm = 20' 8-10-77

