## SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Rodget	Buresu	No.	42-R1425

UNITE			
<b>DEPARTMENT</b>	OF	THE	INTERIOR

	DEPARTMENT	OF THE I	4 1 1.11	ion		D. LEASE DESIGNATION AND SERIAL NO.	
	NM 012670						
APPLICATION	G. 1F INDIAN, ALLOTTES ON TRIBE NAME						
a. TIPE OF WORK	LL 🖾	DEEPEN [	ר	PLUG BAC	KΠ	7. UNIT AGREEMENT NAME	
b. Tipe of wall	LL LL	white the L	<b>-</b> /		•	San Juan 29-6 Unit	
	RLL K OTHER			NGLE MULTIPL	• 🗆	S. FARM OR LEASE NAME	
NAME OF OPERATOR	71000					San Juan 29-6 Unit	
Northwe	st Pipeline Corp	oration				9. WELL NO.	
3. ADDRESS OF OPERATOR						48A	
P.O. Box	x 90, Farmington	, New Mexi	со	87401		10. FIELD AND POOL, OR WILDCAT	
At surface	eport location clearly and i	n accordance with	any S	tate requirements.")		Blanco Mesa Verde	
172	0' FSL & 1170' F	EL		•		AND SURVEY OR AREA	
At proposed prod. zon	As above					Sec. 35, T29N, R6W	
14. DISTANCE IN MILES	AND DIRECTION FROM NEARS	ST TOWN OR POST	OFFICE			12. COUNTY OR PARISH   13. STATE	
						Rio Arriba N.M.	
15. DISTANCE FROM PROPO LOCATION TO NEAREST			16. NO	OF ACRES IN LEASE		OF ACRES ASSIGNED THIS WELL	
PROPERTY OR LEASE I.  (Also to nearest drig	INE, FT.					<u>E</u> 320	
18. DISTANCE FROM PROP	OSED LOCATION*		19. PR	OPOSED DEPTH		ROTARY OR CABLE TOOLS	
TO NEAREST WELL, DO OR APPLIED FOR, ON THE	is lease, ft.	IA		5745		Rotary	
21. ELEVATIONS (Show who	_					22. APPROX. DATE WORK WILL START*	
6483	' GR					Feb. 26, 1977.	
23.	PI	ROPOSED CASIN	G ANI	CEMENTING PROGRA	M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	ют	SETTING DEPTH		QUANTITY OF CEMENT	
	9 5/8"	36		2001		115 sks.	
12 1/4" 8 3/4"	7"	20		3749'		150 sks.	
6 1/4"	4 1/2"Liner	11.6		3599' to T.D.		210 sks.	
A BOP Will b	nt work will be ection 35 is dec	er the 9 5/ conducted	8" s thro	surface casing bough the BOP.		en run and cemented.	
	<del>-</del>		i				
			on the second	JAN 14 1977		JAR 13 /9//	
			·	DIST. 3		S. GEOLOGICAL SURVEY DURANGO, COLO.	
sone. If proposal is to preventer program, if ar	drill or deepen directional	oroposal is to deep lly, give pertinen	pen or t data	plug back give data in p on subsurface locations as	resent prond measu	oductive zone and proposed new productive red and true vertical depths. Give blowou	
SIGNED D. H.	Masonce	lli_ 11	rts]	Production Engi	neer_	DATE	
(This space for Fed	eral or State office use)						
				APPROVAL DATE		· · · · · · · · · · · · · · · · · · ·	
PERMIT NO.							
ABBANUEN BY		<b>#</b> P	TLE			DATE	
APPROVED BY	VAL. IF ANY	Tr					

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

Form C-102 Supersedes C-128 Effective 1-1-65

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

Operator				outer boundar			Well No.	
,	Pipeline Cor		San Juan 29-6 Unit			48A		
Unit Letter	Section	n Township Hange County			'			
I	35	29N		6W	Ric	Arriba		
Actual Footage Local	· ·	outh "	e ond 1	170	feet from th	. East	line	
Ground Level Elev.	Producing For	1111	Pool	<del> </del>	test from th	ie	Dedicated Acreage:	
6483	Mesa Ve	rde		BLANC	.0		320 Acres	
1. Outline th	e acreage dedica	ted to the subje	ct well by	y colored pen	cil or hach	ure marks on th	ne plat below.	
	an one lease is id royalty).	dedicated to the	e well, ou	tline each and	d identify t	he ownership t	hereof (both as to working	
	in one lease of d ommunitization, u		-		rell, have tl	he interests of	all owners been consult	
Yes	☐ No If a	nswer is "yes," t	ype of con	solidation _				
If answer i	is "no," list the	owners and tract	description	ons which hav	ve actually	been consolid	ated. (Use reverse side of	
this form i	f necessary.)	·						
							munitization, unitization,	
	ing, or otherwise)	or until a non-st	andard uni	t, eliminating	such inter	ests, has been	approved by the Commis-	
sion.				<u>.</u>				
		-		*******		<b>T</b>	CERTIFICATION	
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in a	JEIVE			1			certify that the information con-	
40	ا	<i>IJ</i> ₹		48			rein is true and complete to the y knowledge and belief.	
JAi	1 1 31 19 2 9	Ŧ	FEE	0		<b>±</b> 0.	V. Maronelli	
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DURA	INGO, COLO.					Position	H_ MARONCELLI	
	1	Ī		1	•	PROI	DUCTION ENGINEER	
j	ļ	Ŧ		1		Company		
	1	<b>.</b>				NORTHV Date	VEST PIPELINE CORP.	
1	i			i			MED 22 1076	
	1 10	Sec ±	NM s	012670			MBER 22,1976	
	+	<b>3</b> 5		1		#		
1 1	The state of the s					1 hereby	certify that the well-location	
		<b>*</b>		) )			this plan was plotted from field	
1	ar I may	<b>\ \</b>	48	BA	170	<b>工</b>	actual surveys made by me or supervision, and that the same	
j. 3		i i		$ \varphi ^{\frac{1}{2}}$			and correct to the best of my	
1		<i>j</i>				knowledge	e and belief.	
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						Certificate		
0 330 660	90 1320 1650 198	0 2310 2640	<b>200</b> 0	1500 1900	500	3950		
						,		

JAN 13 1977

U. S. GEOLOGICAL SURVEY DURANGO, COLO.

NORTHWEST PIPELINE CORPORATION

MULTI-POINT SURFACE USE PLAN

For the San Juan 29-6 Unit

Well Number 48A

- 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 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. 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 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. Well Site Layout: See attached location layout sheet. There will be a drainage ditch above the cut slope, draining to the west.
- 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. For this well seed Mixture #1 will be used.

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 595,36357, grey.

Multi - Point Surface Use Plan San Juan 29-6 Unit #48A Page 2

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 agencies representative.

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

- 12. Operator's Representative: D.H. Maroncelli, P.O. Box 90, Farmington, N.M. 87401, Phone: 327-5351 Extention 54.
- 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.

Jan. 11,1977
Date

D.H. Maroncelli Production Engineer

DHM/ks

#### **OPERATIONS PLAN**

San Juan 29-6 Unit #48A

Rio Arriba County, N.M.

I. LOCATION: Se/4 Sec. 35, T29N, R6W

LEASE NUMBER: NM 012670

FIELD: Blanco Mesaverde ELEVATION: 6483' GR

#### II. GEOLOGY:

A. Formation Tops:

San Jose:	Surface	Cliff House:	5130 <b>'</b>
Ojo Alamo:	2517 <b>'</b>	Menefee:	5215 <b>¹</b>
Kirtland:	2648 <sup>†</sup>	Point Lookout:	5545 <b>¹</b>
Fruitland:	30 <b>99'</b>	Total Depth:	5745 <b>¹</b>
Pictured Cliffs:	33 <b>94</b> *	-	
Lewis:	3549 <b>†</b>		

- 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: February 26, 1977 14 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 3549'

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

<u>-</u>

(c) From 3549' to 3749' Viscosity 36-45 sec/qt. Weight: 8.5-9.5 #/gal.

Water Loss: 6-12 cc. pH: 8.5-9.5

(d) From 3749' 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"	36# H-40	200 <b>*</b>
8 3/4"	3749 <b>'</b>	7"	20# K-55	3749 <b>'</b>
6 1/4"	3749 - T.D.	4 1/2"	11.6# K-55	3599'-T.D.

## OPERATIONS PLAN Page 2

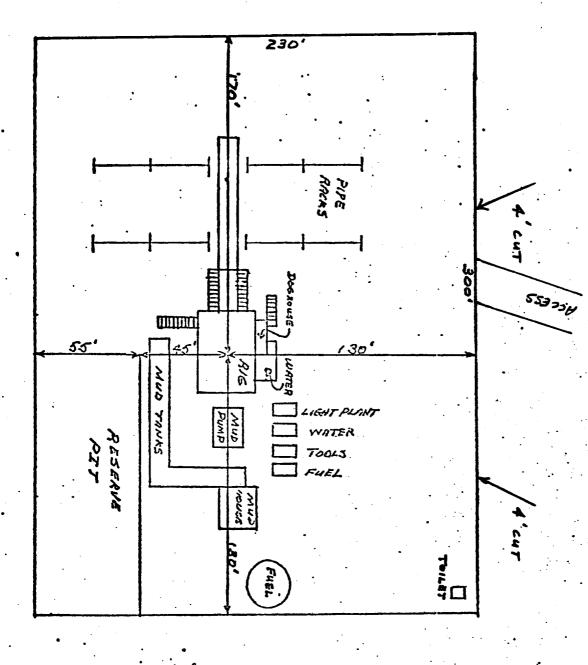
B. Tubing Program: 5700' of 2 3/8", 4.7#, J-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom.

#### V. CEMENTING:

- A. Surface Casing 9 5/8" Use 115 sacks of Class "B" with 1/4# gel flake per sack and 3% calcium chloride (100% excess to circulate). WOC 12 hours. Test surface casing to 600 PSI for 30 minutes.
- B. Intermediate Casing Use 100 sacks of Class "B" 65/35 poz with 12% gel and 15.52 gal. water per sack. Tail in w/50 sacks Class "B" with 2% calcium chloride (excess to cover Ojo Alamo). WOC 12 hours. Run temperature survey after 8 hours. Test casing to 600 PSI.
- C. Production Liner-4 1/2"- Use 210 sacks of Class "B" with 4% gel & 1/4 cu. ft. of fine Gilsontie per sack. Precede cement with 20 bbls. water mixed w/3 sxs. gel (70% excess to circulate liner). Set liner pack off & reverse out excess cement. 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.

DHM/vn

NORTHWEST PISEUNE CORPORATION
LOCATION LAYOUT
SAN JUAN 29-6 UNIT = 48A



DATE: 1-1+77 SCALE: 2 em = 20'

