SUBMIT IN TRIPLICATE*

Form approved, Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

30-039-21263 5. LEASE DESIGNATION AND SERIAL NO.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

	02020	SIGNE SURVEY			NM_03040-A	
APPLICATIO	N FOR PERMIT	O DRILL, DE	EPEN, OR PLUG I	3ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
la. Type of Work	v	DEEDEN! [T]	DULIC DA	cu []	7. UNIT AGREEMENT N	A M FC
	ILL X	DEEPEN []	PLUG BA	CK L.J	·	
b. Type of well	IAS []		SINGLE [7] MULTH	LE [San Juan 29.	
WELL, V	VELL X OTHER		ZONE ZONE		_	
2. NAME OF OPERATOR					San Juan 29	-6 Unit
	st Pipeline Corp	poration			9. WELL NO.	_
3. ADDRESS OF OPERATOR					70A	
P.O. Bo:	10. FIELD AND POOL, O	10. FIELD AND POOL, OR WILDCAT				
4. LOCATION OF WELL (1 At surface	deport location clearly and	in accordance with a	ny State requirements.*)		Blanco Mesa	Verdo
1490	' FSL & 850' FW	•			11. SEC., T., R., M., OR I AND SURVEY OR AR	LK.
At proposed prod. 200		_				
	As above				Sec. 29, T29N	, R6W
4. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST OF	FICE*		12. COUNTY OR PARISH 13. STATE	
Approximately	6 miles west o	Gobernador	Camp		Rio Arriba	New Mexi
					OF ACRES ASSIGNED	<u>'</u>
PROPERTY OR LEASE	osen* 470! From no LINE, FT. line. 850 g. unit line, if any) Unl	from drilli	ng	10 1	THIS WELL	_
(Also to Dearest dr)	g. unit line, if any) Ull 1	19	. PROPOSED DEPTH	20. ROTA	ARY OR CABLE TOOLS	<u> </u>
	ORILLING, COMPLETED,	ŀ		1 _		
21. ELEVATIONS (Show wh		27231	5758 '	1 RC	tary 22. Approx. Date wo	DK WILL STADE
	•					
23.	6434 GR				August 1,	19/6
54).	I	PROPOSED CASING	AND CEMENTING PROGR	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT	
<u>13 3/4"</u>	9 5/8"	36	200'		180 sxs	
8 3/4"	7"	20	3692'		160 sxs	
6 1/4"	4 1/2" liner	10.5	3542'-5758'		215 sxs	
All subsequen	t work will be o	conducted thre		s been	run and cemen	ted.
			11. 75		nou &	13/0
			f _{err} en en		COLL DOW	1000
			e na		DIST	20101
	drill or deepen directions		or plug back, give data on p ta on subsurface locations a		ductive zone and propose	new productives. Give blowou
4.	711 - 1	P.	Decide the English		6 21	8-76
BIGNED	aroncelli ral or State office use)	TITLE	Production Engi		PATE	0-70
	rai or State onice use)		APPROVAL DATE			
*						
APPROVED BY		TITLE _			DATE	
CONDITIONS OF APPROV	AL, IF ANY :	-	•			
Ol	Pol					

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

		All distances must be	rom the outer bounderies	of the Section.	
Operator Northwest	Pipeline Corp	orati on	Lease San Juan 29=	6 Unit	Well No. 70-A
		T	Range	County	
Unit Letter E	29	Township 29N	6W	Rio Arriba	
Actual Footage Loc	ration of Well:	1			
1490	feet from the No	rth line and	850	Teet from the West	line
Ground Level Elev.	Producing For		Pool		Dedicated Acreage;
6434	Mesa Ve	rde	Blanco		320 Acres
 Outline th If more th 				or hachure marks on dentify the ownership	the plat below.
dated by o	No If a is "no," list the fracessary.)	nswer is "yes," type o	of consolidation	actually been consoli	dated. (Use reverse side of
					mmunitization, unitization, en approved by the Commis-
			 		CERTIFICATION
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	1/2 1/2			I I	v certify that the information con-
1.00			1	tained I	herein is true and complete to the
3	FE E			best of	my knowledge and belief.
0671	FE:	E	İ) ·	Warracelli
.06/11				Name	
8501			1		.H. Maroncelli
A	7 7 (72.4		!	Position	
	1		İ		roduction Engineer
				Company	
E.38	i		i	N	orthwest Pipeline Corp
	1			Date	
NM	0304b-A		. 1	M	ay 24 , 1976
		\$200 J			
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4	1		i !	I hereb	by certify that the well-location
	1	1900 1900	· •	shown	on this play was plotted from field
	•		į	notes	of actual surveys made by me or
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					DIST. 3
	0.70	1			
	O 70			Date Surv	gyed
	· 		; 		17. 1976
	P 1		1	 	d Professional Engineer
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—	1	***		Fred	B. Kerr Jr.
Grates - 3		71-11-1		Certifical	
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NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

for the San Juan 29-6 Unit

Well Number 70A



- 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 5%. 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. 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. $\underline{\frac{\text{Ancillary Facilities:}}{\text{drilling of this well.}}}$ There will be no camps or airstrips associated with the
- 9. Well Site Layout: See attached location layout sheet.
- 10. Plans for Restoration of the Surface: Upon completion of drilling, the location will be cleaned, and leveled so that no cut off 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, Reeseeding 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.

Con't on page 2
2 1976

Page 2 Multi-Point Surface Use Plan San Juan 29-6 #70A

Other Information: 11.

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 the 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.

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

13. Certification:

I hereby certify that I have inspected the proposed drillstie 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 subcontractos in conformity with this plan and the terms and conditions under which it is approved.

Production Engineer

DHM/mag

OPERATIONS PLAN

San Juan 29-6 Unit #70A

Rio Arriba County, New Mexico

I. LOCATION: NW/4 Sec. 29, T29N, R6W

LEASE NUMBER: NM 03040-A

FIELD: Blanco Mesa Verde

ELEVATION: 6434' GR

II. GEOLOGY:

A. Formation Tops:

San Jose: Surface

Ojo Alamo: 2460'
Kirtland: 2591'
Fruitland: 3042'
Pictured Cliffs: 3337'

Cliff House: 5073'
Menefee: 5158'
Point Lookout: 5488'
Total Depth: 5758'

Lewis: 3492'

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: Activities will start on or about August 1, 1976 and will last about two weeks.

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 3492'

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

(c) From 3492' to 3692'
Viscosity: 36-45 se

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

Water Loss: 6-12 cc Ph: 8.5-9.2

(d) From 3692' to total depth with gas.

IV. MATERIALS:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	Wt. & Grade	Depth Set
13 3/4"	200'	9 5/8"	36# H-40	200'
8 3/4"	3692'	7"	20# K-55	3692'
6 1/4"	3692'-5758'	4 1/2"	10.5 # K-55	3542'-5758'

DIST

B. Tubing Program:

2 3/8" 4.7# K-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom.

OPERATIONS PLAN--San Juan 29-6 Unit #70A Page 2

V. CEMENTING:

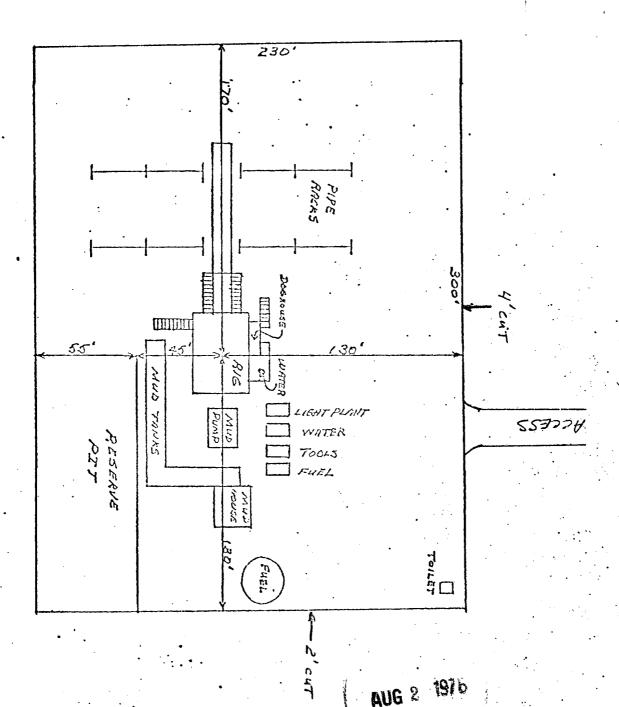
- A. Surface Casing 9 5/8"--Use 180 sacks of Class "B" with 1/4# gel flake per sack and 3% calcium chloride (100% excess to circulate). WOC 12 hours. Test surface casing to 600 PSI for 30 minutes.
- B. Intermediate Casing -- Use 100 sacks of Class "B" 65/35 poz with 12% gel and 15.52 gal. water per sack. Tail in w/50 sacks Class "B" with 2% calcium chloride (65% excess to cover 0jo Alamo). WOC 12 hours. Run temperature survey after 8 hours. Test casing to 600 PSI.
- C. Production Liner-4 1/2"

 Use 215 sacks of Class "B" with 4% gel & 1/4 cu. ft. of fine Gilsonite 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/rn 6/25/76





DATE: 7-27-76 SCALE: 1 CM = 20'

