30-	03	9	7	7.	5-1	7	マ	

<b>1</b> ·		LED STATES			teactue ut	ue)	$\frac{3\ell - \ell 39 - 2}{5. \text{ LEASE DESIGNATION}}$	2573	
DEPARTMENT OF THE INTERIOR  GEOLOGICAL SURVEY									
		SF 078997							
APPLICATIO	N FOR PERMIT	TO DRILL, D	EEPE	N, OR PL	_UG_B	ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME	
1a. TYPE OF WORK	ILL X	DEEPEN [	]	PLU	IG BAC	:к 🗆	7. UNIT AGREEMENT N	AME	
b. Type of Well	AS OTHER		\$12 ZO:	NGLE X	MULTIP	LE	San Juan 30-5		
2. NAME OF OPERATOR		· · · · · · · · · · · · · · · · · · ·					San Juan 30-5	Unit	
	eline Corporat:	ion					9. WELL NO.		
3. ADDRESS OF OPERATOR							#72		
P.O. Box 90,	Farmington, New Report location clearly and	Mexico 874	01				10. FIELD AND POOL, O	R WILDCAT	
4. LOCATION OF WELL (I	deport location clearly and	in accordance with	any St	tate requiremen	its.*)		Basin Dakota		
805	' FSL & 820' FWI	Section 1	0, T	30N, R5W			11. SEC., T., R., M., OR I		
At proposed prod. zo	Same as abov	7e				,'	Sec 10, T30	N, R5W	
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST	OFFICE	*			12. COUNTY OR PARISH	1	
25 Miles Eas	t of Navajo Dam						Rio Arriba	New Mexic	
15. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dr	T LINE, FT.	805'	16. NO.	N/A?2		TO T	of acres assigned his well 320		
18. DISTANCE FROM PRO TO NEAREST WELL, I OR APPLIED FOR, ON TE	RILLING, COMPLETED,	40001	19. PR	7905 '		,	RY OR CABLE TOOLS		
21. ELEVATIONS (Show wi	ether DF, RT, GR, etc.)						22. APPROX. DATE WO	BE WILL START*	
	6429' GR						December 19	180	
23.		PROPOSED CASING	GAND	CEMENTING	PROGRA	M			
SIZE OF HOLE	OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH					QUANTITY OF CEMEN	T		
12-1/4"	9-5/8"	32.3#		350 <b>'</b>		185 sx			
8-3/4"	7''	20#		3610'		140 sx			
DRILLING-A/4"	4-1/2"			. <b>7905 †</b> Tibijadi <b>10 edi</b> m		•	360 sx		
SU Charles of the	t Turn Armached	<b>a</b> ppeal po	er usni	to 80 CFR 2	290.			•	
	perforate and s t Total Depth.	timulate the	Dak	ota Forma	ation.	Compi	letion plans wi	ll be	
	e installed afto			asing is	set a	nd ceme	ented. All sub	sequent	

The South half	of Section 10 is dec	licated	to this well.	Gas is ded	icated.	•
RECEIVE	D	^				
SEP 2 3 1989			OIL CO. 2	3/90		
IN ABOVE STACE DESCRIPENTES	RVEY MOSED PROGRAM: If proposal is to deepen directionally, give per	o deepen or rtinent data	plug back, give for on subsurface locations	Greent productive and and	zone and propo true vertical dep	sed new productive oths. Give blowout
preventer program, if any. 24.					<del></del>	
SIGNED Paul C	Thompson Thompson	TITLE	Drilling Engi	neer	DATE 9-16	6-80
(This space for Federal of	r State office use)					
PERMIT NO.	APPROVED	. · · · · · · · · · · · · · · · · · · ·	APPROVAL DATE			
i A	5 AMENDED	•		•		
CONDITIONS OF APPROVAL, I		TITLE	<del></del>		DATE	
for	JAMES F. SIMS ISTRICT ENGINEER See	Instruction	s On Reverse Side			
PCT/djb '	7				•	

# OIL CONSERVATION DIVISION

EHERGY AND MINERALS DEPARTMENT

# P. O. UOX 2088 SANTA FE, NEW MEXICO 87501

Form C-107 kevised 10-1-7

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

	<del></del>		Lease	<del></del>	<del></del>	Well No.
NORTHWEST PIPELINE CORPORATION			SAN JUAN 30-5 UNIT			72
Unit Letter			Range			
М	10	30N	5W	Rio A	Arriba	
Actual Footage Loc	<u> </u>	· · · · · · · · · · · · · · · · · · ·				
805	feet from the Sc	outh line and	820	feet from the	West	line
Ground Level Elev:	Producing Fo		Pool		Dedic	ated Acreage:
6429	Dak		Basin Dal			320 Acres
1. Outline th	e acreage dedic	ated to the subject w	ell by colored pe	ncil or hachure r	marks on the pl	at below.
	•				Ananga .	
2. If more th	ian one lease is	dedicated to the we	ll, outline each ai	nd identity the o	Mucrey 10 theres	of thoth as to working
interest a	nd royalty).			MOKIMMEDI		The both as to working
2 If more the	an one lease of	different ownership is	dedicated to the	well, have the in	nteresta of Call	owners been consoli-
dated by c	communitization.	unitization, force-pool	ing. etc?	AUI	G A	
dated by				· ·	iliga our	NG
X Yes	☐ No If a	answer is "yes;" type	of consolidation _	Unitizați	ton Wan nurer	· · · · · · · · · · · · · · · · · · ·
# # T				Liona		(7)
		owners and tract des	criptions which h	ave actually bee	n consolidated.	. (Use reverse side of
	f necessary.)	3 3 . 31 . 43 . 3		1+1	J (1	
No allowal	ble will be assign	ned to the well until al	n interests have l	peen consolidate	eu (by communi	roved by the Commis-
forced-poo	ling, or otherwise	) or until a non-standa	iu unii, ciiminatii	18 auch interests	s, nas been app	total by the dominis-
BIOII.					<del></del>	
					CE	RTIFICATION
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<b>\</b>	The state of		• 1		Name	
<del>-</del> ·	<del> </del>		7			Thompson
	$1.0 \pm 0.0$		. !		Position	
	1		l			Engineer
	4		1		Company	st Pipeline Corp.
·		,	1		Date	c riperine corp.
	1 0		. !		August 2	28, 1980
	l Se	ec.	!	PENN		
			1	A A	N .	
<b>2</b>		10	i /· «	CON 3 19	(E) (A)	ify that the well-location
·	i		1 1 0/1	J.C.5 <sup>35</sup> 1	1 10	plat was plotted from field
	I .		1 1	CON 19		al surveys made by me or
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	1			<b>*</b>	Date Survey	
8201					Date Surveyed	T080
<b>Φ</b>	l		j		August 20	salonal Engineer
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A CONTRACTOR OF THE SECOND	Ti garan da kan jingga sa ta da sa	The second of the second of the second	ger frakt an er stægsker († 750 b. 19	(17. 18. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	Certificaje No.	
•	Sca	ale: 1"=1000'			3950 8 KF	2 JR.
						FORM 24-11

#### NORTHWEST PIPELINE CORPORATION

#### DRILLING PROGNOSIS

Well Name: San Juan 30-5 Unit #72

Date: September 16, 1980

I. LOCATION: 805' FSL & 820' FWL ELEVATION: 6429' GR

Section 10, T30N, R5W

SURFACE: BLM

Rio Arriba Co., N.M.

MINERALS: Fed SF 078997

FIELD: Basin Dakota

Point Lookout

II.	GEOLOGY: Surface - Sa			Donald a
	A. Formation:	Depth:	Formation:	<u>Depth</u> :
	Ojo Alamo	2643 '	Mancos	5910 <b>'</b>
	Kirtland	2731'	Gallup	67351
	Fruitland	-·	Greenhorn	7625'
	Pictured Cliffs	3041'	Graneros	<b>7</b> 675 <b>'</b>
		3201'	Dakota	7805†
	Lewis	3410'		7905'
	Cliff House	5430 <b>'</b>	Total Depth	7303

56251 B. Logging Program: Gamma Ray Induction & Density at Total depth.

C. Natural Gauges: Gauge @ 5430', 6735', 7805', and @ Total Depth. Record all gauges on daily drilling report and morning report. Gauge all noticeable increases in gas while drilling & report.

#### III. DRILLING:

Contractor: Α.

- Mud Program: Mud, water & gas will be furnished by Northwest Pipeline Corp from surface to total depth.
  - a) From Surface to Intermediate casing depth to be drilled with mud.
  - b) From Intermediate casing depth to T.D. will be drilled with gas.
- C. While drill pipe is in use, pipe rams shall be actuated to test proper functioning not less than once each day. The blind rams shall be actuated to test proper functioning once each trip. All tests will be reported in the Northwest Pipeline tour reports as to time and date.

### IV. MATERIALS:

A. Casing Program:

Hole Size	Depth	Casing Size	Wt & Grade
12-1/4"	350'	9-5/8"	36# K-55
8-3/4"	3610'	7"	20# K-55
6-1/4"	<b>7</b> 905 <b>'</b>	4-1/2"	10.5# K-55 (To 6800')
0-1/4		4-1/2"	11.6# K-55 (6800' to TD)

B. Float Equipment:

- a) Surface Casing: 9-5/8" Larkin Guide Shoe and Self-fill insert float
- b) Intermediate Casing: 7" Dowell guide shoe, Dowell self fill insert float valve. Dowell centralizers five (5).
- c) Production Casing: 4-1/2" Larkin Geyser Shoe. Larkin Flapper type float collar.
- C. Tubing: 7855' of 2-3/8'', 4.7#, J-55, 10 RD EUE tubing with common seating nipple above bottom joint.

Drilling Prognosis
San Juan 30-5 Unit #72
Page #2

D. Well Head Equipment: Gray Tool Company drawing No. E-5533, or equivalent. Well head representative to set slips on intermediate and production strings.

#### V. CEMENTING:

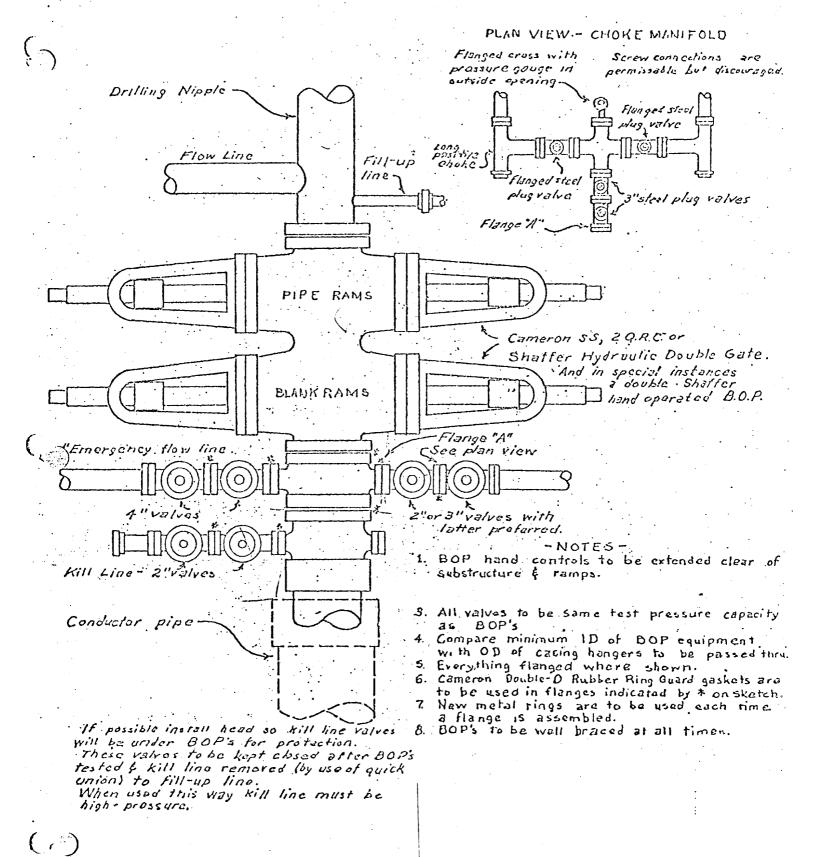
- A. Surface Casing: 9-5/8" Use 185 sks of C1 "B" cement with 1/4# gel flake per sack and 3% CaCl<sub>2</sub> (100% excess to circulate 9-5/8" casing). WOC 12 hrs. Test to  $600^2$  psi for 30 min.
- B. Intermediate Casing: 7" Use 65 sks of 65/35 Class "B" poz with 12% gel and 15.2 gal of water per sk. Tail in with 75 sacks of Class "B" with 2% CaCl<sub>2</sub> (240 cu.ft of slurry, 65% excess to cover Ojo Alamo). Use top rubber plug only. Run tempreature survey after 8 hrs. WOC 12 hrs. Test casing to 1200 psi for 30 min.
- C. Production Casing: 4-1/2" Precede cement with 40 bbls of water mixed with 4 sks gel. Cement with 260 sks of Cl "B" cement with 8% gel, 12-1/2# fine gilsonite per sk and 0.4% HR-4. Tail in with 100 sks of Cl "B" cement with 1/4# fine tuf-plug per sack. ( 660 cu.ft of slurry), (50% excess to fill to intermediate csg). Run temperature survey after 8 hrs. Perforate after 18 hrs.

F. H. Wood

PCT/djb

Original: Well File

sc: Regular Distribution



SINGLE PIPE RAM
BLOWOUT PREVENTOR HOOKUP

- 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. <u>Location of Tank Batteries</u>; <u>Production Facilities</u>; and <u>Production</u>, <u>Gathering and Service Lines</u>: 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 Pine River,
- 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. Wall 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 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 the seed mixture recommednded by BLM.

All equipment above ground will be painted a non-glare, non-reflective, non-chalking color that simulates the natural color of the site.

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.

All liquids from the line will be contained at the site unless otherwise specified by the surface agency's representative.

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.

12. Operator's Representative: Paul C. Thompson - P.O. Box 90, Farmington, New Mexico 87401. Phone: 327-5351.

## 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.

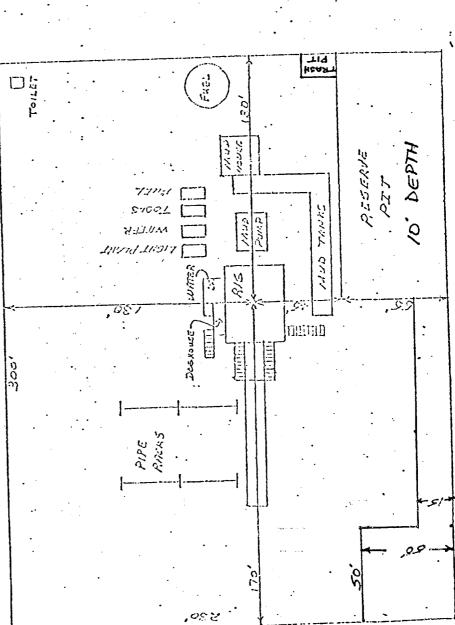
Paul C. Thompson Drilling Engineer

PCT/djb

NO THWEST PITTERN FLITT

TOTAS & MESA VERDER

SAN LUAN 30-5 CANT #72



DATE. 7/17/80

