SUBMIT IN TRIPLICATE®

UNITED STATES
DEPARTMENT OF THE INTERIOR

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re	verse	side)	

В	udget	Burea	i No). 42-R	142
30-	039	9 - Z	2.4	120	
				SERIAL	NO.

	DEPARTMENT			1011		S. LEASE DESIGNATION AND SERIAL INC.
GEOLOGICAL SURVEY						NM-011350
APPLICATION	FOR PERMIT T	O DRILL, D	DEEPE	N, OR PLUG I	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK	1000	_				7. UNIT AGREEMENT NAME
DRI	LL 🛛	DEEPEN [PLUG BA	CK ∐	San Juan 29-5 Unit
b. TTPE OF WELL			\$11	CLE V MULTI	PLE 🗍	S. FARM OR LEASE NAME
OIL GA	ELL Y OTHER		20:			
2. NAME OF OPERATOR						San Juan 29-5 Unit
Northwest Pin	<u>eline Corporati</u>	on				#98
3. ADDRESS OF OPERATOR						10. FIELD AND POOL, OR WILDCAT
P.O. Box 90.	Farmington, New	<u>Mexico 87</u>	401	tate requirements *)		Basin Dakota
At Surface	eport location clearly and	in accordance wit	тоом	R5W		11. SEC., T., R., M., OR BLK.
1	FNL & 1090' FE	7 Sec 33	129N	WCA		AND SURVET OR AREA
At proposed prod. zon	Same as above	•				Sec 33 T29N R5W
	AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICE			12. COUNTY OR PARISH 13. STATE
	s East of Blance					Rio Arriba New Mexico
		New Hext		. OF ACRES IN LEASE	17. NO.	OF ACRES ASSIGNED
15. DISTANCE FROM PROPO LOCATION TO NEAREST	*****		20. 00	4.	70 7	320
PROPERTY OR LEASE L (Also to nearest drig	unit line, if any)		10 20	N/A OPOSED DEPTH	- 20 Ref	ART OR CABLE TOOLS
18. DISTANCE FROM PROP TO NEAREST WELL, D	RILLING, COMPLETED,	N/A	19. 1%		20. 1142	Rotary
OR APPLIED FOR, ON TH	IS LEASE, FT.		<u> </u>	8150 '	<u> </u>	22. APPROX. DATE WORK WILL START*
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					
6730' GR						
23.	. P	ROPOSED CASI	NG ANI	CEMENTING PROGE	RAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	100 T	SETTING DEPTH		QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#_		350 '	_	185 sks
8-3/4"	7"	20#		399 <u>0 '</u>	_	130 sks
6-1/4"	4-1/2"	10.5# & 1	1.6#	8150 '		350 sks
Completion p A BOP will b work will be The East hal Gas is dedic	ated. REC	er the surright the BOI	face AP OIL	CON. COM.	and cer ind opera ect to col eral requ	mented. All subsequent THURS AUTHURIZED ARE MPLIANCE WITH ATTACHED WIREMENTS". oductive zone and proposed new productive red and true vertical depths. Give blowout
SIGNED Paul C. (This space, for F.	Thompson RDV Duce use)			Drilling Engin		DATE June 6, 1980
APPROVED ALL CONDITIONS OF PARTIES OF PARTIE	A 1980 Ap. 24 ES F. SHAS OT ENGINEER		TITLE	On Reverse Side		DATE

OIL CONSERVATION DIVISION

P. O. BOX 2088

High there's war and a survey

Form C-102 Revised 10-1-78

PI NO AMATA	RALS DEPARTMENT	SANT	P. O. BOX 2088 A FE, NEW MEXICO be from the cuter bounderies	of the Section.		sed 10-1-
ator		VII niereudes mast	Lease	Autobion And	Well No.	
	PIPELINE COR	PORATTON	SAN JUAN 29		98	
Letter	Section Section	Township	Range	County		
	33	29N	5W	Rio Arrib	a	
al Footage Loc						
600	feet from the		e and 1090	feet from the East	line Dedicated Acreage:	
nd Level Elev.	Producing F	Formation	Pool		320	Acre
730		Dakota	Basin Dak			Acre
interest a	ind royalty). Ian one lease of	different ownershi	e well, outline each and ip is dedicated to the we			
dated by		, unitization, force-				
Yes	□ No If	answer is "ves." t	type of consolidation	Unitization		
						٠.,
If answer	is "no," list th	e owners and tract	t descriptions which hav	e actually been cons	ondated. (Use rever	se side
sion.	ON AND AND AND AND AND AND AND AND AND AN	Sec.	andard unit, eliminating	I he fain best Name Postti Di Compo No Date	CERTIFICATION reby certify that the information of my knowledge and below the control of the co	mation co plete to t lief.
		ST. 3	33	sho not und is kno Date	wereby certify that the viewn on this plat was plotted as of actual surveys maler my supervision, and the true and correct to the owledge and belief. Surveyed [ay 11, 1980 ym 5] Stered Professional Engineer Land Surveyed	ed from finde by me not the so best of

وستزام تراتم

	,	Budget	Bureau	NO.	42-K	142
LEASE			<u>-</u>		•	

UNITED STATES DEPARTMENT OF THE INTERIOR	5. LEASE NM 013	1350 S	<u>2</u>	
GEOLOGICAL SURVEY			OR TRIBE NAM	ΛE
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different	7. UNIT AGR San Juan	29-5 Un	it:	· · · · · · · · · · · · · · · · · · ·
reservoir. Use Form 9–331–C for such proposals.)	8. FARM OR San Juan			¥
1. oil gas 🖾 other	9. WELL NO. #98	를 위한 중 1	3 1	7. Fr
2. NAME OF OPERATOR Northwest Pipeline Corporation	10. FIELD OR	The state of the s	AME	2
3. ADDRESS OF OPERATOR P.O. Box 90, Farmington, N.M. 87401	Basin 11. SEC., T., F	Dakota R., M., OR B	LK, AND SUR	VEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA Sec 33	T29N R		5 5
AT SURFACE: 1700' FNL & 1090' FEL AT TOP PROD. INTERVAL:	12. COUNTY (13. STATE New Mex	
AT TOTAL DEPTH:	14. API NO.	2 4 4 8 3 4 4 8	E. 3 1 2	0
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	15. ELEVATIO		DF, KDB, AN	ID WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	673	0 ' GR =	<u>ହିଁ ବିଲ୍ଲ</u> ଜୁ ର୍ଗର)
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE		to job of sendural sendon consistent sendon cons	really pe	og sti Pari
REPAIR WELL PULL OR ALTER CASING	(NOTE: Report change	results of mile on Form 9-	iltiple completion 330.)	.1
MULTIPLE COMPLETE	ii C	o bar bar o state	4 m	noi!:
ABANDON* (other) Change Location	ev 77 27 27	Coffe It Different Herrich Dras b	roup no ho ca sett by baniotido nisibni n	enoidausten Admedu natio
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly stat including estimated date of starting any proposed work. If well is d	arecikonany unin	Cu. RIVE SUN	give pertinen surface locati	t dates.
measured and true vertical depths for all markers and zones pertiner	nt to this work.)*	1.00 mg/di		ō '≜
This location has been changed due to archaec	ological fi	ndings	on location)ធ្ន. .ី
Old Location: 1600' FNL & 1090'	FEL	- 本事 3 に 2 - まっと 3 3 - まっと 3 3		1
New Location: 1700' FNL & 1090'	FEL			. 2 3
				. A
The second secon	10,	2		
The second of th		C		· '5
	(%		3	्रि () () () () ()
Subsurface Safety Valve: Manu. and Type		Set		Ft.
18. I hereby certify that the foregoing is true and correct	01	9 7 6 9 0 7 6 0 0 7 7 8	हैं। 1980 :	
SIGNED CILITATION TITLE Production		Augus	L 7, 1300	
(This space for Federal or State of		t 101 to 100 to	bus blat.	: 12 1-
APPROVED BY COMMITTEE TITLE	DATE _	Participation of the control of the	3 to 10 to 1	
price warmy		alponi sylvedy gwedy dibract	identification of the contest of the	: 5 :: 1

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Form C-107 keylsed 10-1-7

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

Operator			Lease		Well No.			
NORTHWEST PIPELINE CORPORATION			SAN JUAN 29-5	UNIT	98			
Unit Letter	Section	Township	Range	County				
H	33	29N	5W	Rio Arriba				
Actual Footage Location of Well: 1700								
Ground Level Elev:	Producing For	mation	Pool		Dedicated Acreage:			
6726		kota	Basin Dakota		320 Acres			
1. Outline th	1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.							
2. If more th	an one lease is	dedicated to the wel	l, outline each and ide	entify the ownership	thereof (both as to working			
	nd royalty).			•				
2 16 1	n one lease of	lifferent ownership is	dedicated to the wall	have the interests	HEST PIPELINE COMPERATIONS IT all owners been consoli-			
		unitization, force-pooli		nave the interests t	ari outicis pecii consoli-			
				riaation	JUL 21 1980			
☐X Yes	☐ No If a	nswer is "yes;" type o	of consolidation <u>Unit</u>	LIZACION	<u> </u>			
If answer	is "no;" list the	owners and tract desc	riptions which have a	ctually been consolid	latedi (Use reverse side of			
this form i	f necessary.)							
					mmunitization, unitization,			
forced-poo sion.	ling, or otherwise	or until a non-standar	d unit, eliminating suc	en interests, has bee	n approved by the Commis-			
31011.					OFFICIAL TION			
				8	CERTIFICATION			
	1			l hereby	certify that the information con-			
	1	₹ *	'	tained h	erein is true and complete to the			
	I .	41 - Wall	1 5	best of	my knowledge and belief.			
	I		1700	fan	[Thompson			
	 			Norme Paul C	. Thompson			
				Position	· Inompour			
	1		1 09	Drilli	ng Engineer			
	i		1 .	Position Drilli Company Northw	rest Pipeline Corp			
1	1	Î	1	Date				
_	Se Se	ec.	i	July 2	1, 1980			
A STATE OF THE STA	AVI							
[33	 	I hereb	y certify that the well-location			
10,000			i .		n this plat was plotted from field			
1 20				/ Maries 0	f actual surveys made by me or			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\mathscr{L} \cap \mathscr{L} \neq \emptyset$		1	N I	y supervision, and that the same and correct to the best of my			
	~ ~ / ·		-	E	ge and belief.			
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	1		l	Date Sur	TETERLO LANDO			
	i I		i 1	Registere	Professional Engineer			
	1		i	and L	ad Surveyor 7			
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•	Sca	le: 1"=1000"		3950				

NORTHWEST PIPELINE CORPORATION

DRILLING PROGNOSIS

Date: June 13, 1980 Well Name: San Juan 29-5 Unit #98

ELEVATION: 1090' FEL & 1600' FNL 6730' GR I. LOCATION:

Sec 33 T29N R5W

SURFACE: BLM Rio Arriba Co., New Mexico

MINERALS: Fed SF - 011348

Basin Dakota FIELD:

II. GEOLOGY: Surface formation: San Jose

A.	Formation:	Depth:	Formation:	<u>Depth</u> :
	Ojo Alamo	2875'	Mancos	6025'
	Kirtland	3095'	Gallup	6904'
	Fruitland	3400'	Greenhorn	7815 '
	Pictured Cliffs	3665'	Graneros	7865 '
	Lewis	3 7 90 '	Dakota	7980 '
	Cliff House	5494'	Total Depth	8150 '
	Point Lookout	5914'		
	101110 311000			

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

C. Nautral Gauges: Gauge @ 5914', 6904', 7865', and @ Total Depth. Record all gauges on daily drilling report and morning report. Gauge all noticeable increases in gas while drilling & report.

III. DRILLING:

- A. Contractor:
- B. 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"	39901	7"	20# K-55
6-1/4"	8150 '	4-1/2"	10.5# K-55 (To 6800')
0-1/4	0130	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.
- 8100' of 2-3/8", 4.7#, J-55, 10 RD EUE tubing with common seating nipple above bottom joint.

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:

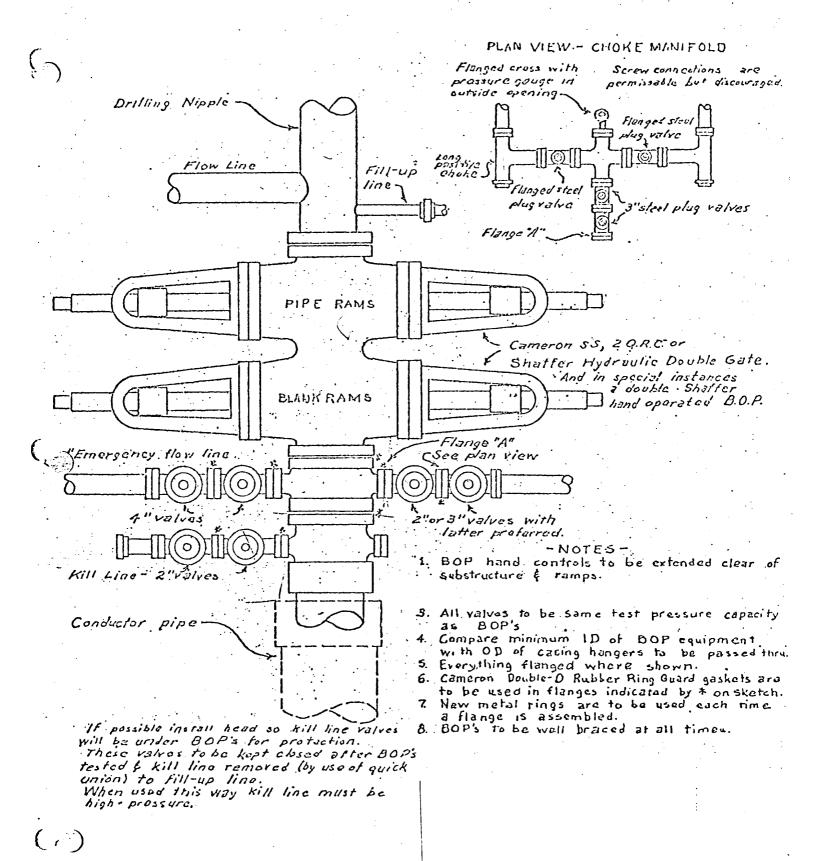
- A. Surface Casing: 9-5/8" Use 185 sks of Cl "B" cement with 1/4# gel flake per sack and 3% CaCl₂ (100% excess to circulate 9-5/8" casing). WOC 12 hrs. Test to 600 psi for 30 min.
- B. Intermediate Casing: 7" Use 80 sks of 65/35 Class "B" poz with 12% gel and 15.52 gal of water per sk. Tail in with 50 sacks of Class "B" with 2% CaCl₂ (270 cu.ft of slurry, 60% 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 sacks gel cement with 250 sks of C1 "B" cement with 8%, 12-1/2# fine gilsonite per sk and 0.4% HR-4. Tail in with 100 sks of C1 "B" cement with 1/4# fine tuf-plug per sack. (640 cu.ft of slurry), (50% excess to fill to intermediate csg). Run temperature survey after 8 hrs. Perforate after 18 hrs.

F. H. Wood

MIT/djb

Originial: 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. 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 Conoco Water hole.
- 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.
- 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.

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

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: Paul Thompson P.O. Box 90 Farmington, New Mexico 87401. Phone: 327-5351 Extension # 115
- 13. Certification:

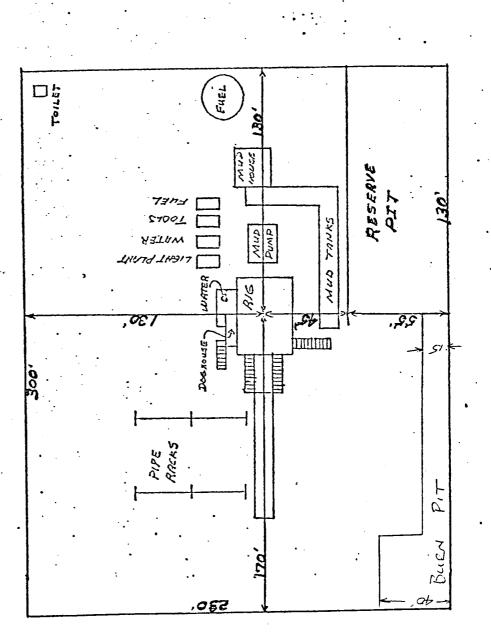
I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will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

WJB/ch

NORTHUEST PIPELINE CORPORATION

LOCATION LAYOUT SAN JUNA 29.5 JULY #



DATE: 6/11/96 SCALE: 2 CM = 20

