SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

30-039-225-34 5. LEANE DESIGNATION AND SERIAL NO.

	GEOLOG	ICAL SURVE	Y			US A-SF-078917	
APPLICATION				N, OR PLUG BA	4CK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
a. TYPE OF WORK	L X	DEEPEN [PLUG BAC	< □	7. UNIT AGREEMENT NAME San Juan 29-5 Unit	
	S OTHER		20	NGLE MULTIPLE ZONE	* X	San Juan 29-5 Uni	
Northwest Pip	<u>eline Corporati</u>	on			<u> </u>	#100	
At surface	Farmington New Port location clearly and	IL Sec 25				Gobernador PC/Blanco N 11. SEC., T., B., M., OR BLX. AND SURVEY OR AREA	
	Same as above				·	Sec 25 T29N R5W	
	ND DIRECTION FROM NEAR		OFFICE	•		Rio Arriba New Mex	
D. DISTANCE FROM PROPULOCATION TO NEAREST PROPERTY OR LEASE L. (Also to nearest drig	INE, FT.	970'		N/A 2371.36	114.4	of acres assigned m / this well =/229.16	
S. DISTANCE FROM PROPO TO NEAREST WELL, OF OR APPLIED FOR, ON THE	ONED LOCATION® RILLING, COMPLETED, IS LEASE, FT.	N/A		oposed depth 6160'	20. ROTA	ROTARY 1 22. APPROX. DATE WORK WILL STARI	
1. ELEVATIONS (Show whe				•		Sept 1980	
3.	6795 <u>'</u> (G ANI	CEMENTING PROGRA	M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO		SETTING DEPTH		QUANTITY OF CEMENT	
2-1/4"	9-5/8"	36#		200'		115 sks 205 sks	
8-3/4" 6-1/4"	7" 4-1/2"	20# 10.5#		4090' 3890' - 6160'		205 3ks 230 sks	
A BOP will be	conducted thro	er the surf ugh the BOP	ace	casing is set a	nd cer	mented. All subsequent	
ione. If proposal is to preventer program, if ar	drill or deepen direction	proposities to dee	pen or t data	plue hack, give data on p on subsurface locations at	resent pro nd measur	oductive zone and proposed new produc red and true vertical depths. Give blow	
RIGNED Paul C.	C. Thompson Thompson eral or State office use)	SOI TI	TLE	Drilling Engine	er	June 6, 1980	
PERMIT NO.	eral of fittee mace day			APPROVAL DATE			
APPROVED BY	VAL, IF ANY : 00	TI	LE A	1006		DATE	
1-1254	Wold Chief pc	No "See Instr	NN uction	NUUS s On Reverse Side			

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO THERGY AND MINERALS DEPARTMENT

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

Form C-107 kevised 10-1-

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

Operator				Lease	,				Well No.	
NORTHWEST PIPELINE CORPORATION				SAN JUAN	29-5	UNIT	SIDELLINE DO	100		
Unit Letter	Section	Township		F	Range		County ; ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	1691		
G	25	29N			<u>5₩</u>		Rio		511	
Actual Footage Loca		th		-	1165			East	line <u>, a vitik</u>	
1885 Ground Level Elev:	feet from the NC	rth mation	line and	Pool	1102	feet	from the		ted Acrease	
6786	Pictured		esa Verde	Gob	ernador	PC/B1	anco MV	รกุกกษากับ	9.16	Астев
	e acreage dedica								t below.	
	2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).									
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?										
X Yes	— Waitington									
	is "no," list the f necessary.)	owners an	d tract des	criptio	ons which l	nave a	ctually bee	n consolidated.	(Use reverse	side of
	ole will be assign									
forced-poo	ling, or otherwise)	or until a	non-standa	rd uni	t, eliminat	ing suc	ch interests	s, has been appr	oved by the C	Commis-
sion.		1521.94								
		4526.94				1		CEF	RTIFICATION	
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	,							I hereby certify	that the informa	itlon com
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			- <i>-</i> - +		- 			Paul C. T	nompson	
	1				[Position	-	
	i	100		٠,	ر 165		•	Drilling	Engineer	
	ı		<u></u>					Company		_
•	ı	8 4						Nrothwest Date	Pipeline	Corp
	Ì	à. £						July 23,	1980	
	¦ Se	c.						July 25,	1700	
										
		\	25					I hereby certif	y that the well	location
	· '	\ .	-/		1			shown on this p	lat was platted i	from:field
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UNITED STATES

DEPARTMENT OF THE INTERIOR	SF 078917 원호리 표 경찰성
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)	San Juan 29-5 Unit
reservoir, Use Form 9–331–C for such proposals.)	8. FARM OR LEASE NAME
1. oil — gas 💢	San Juan 29-5 Unit
well gas to other	9. WELL NO. 759 +
2. NAME OF OPERATOR	#100 <u>% (</u>
Northwest Pipeline Corporation	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR	Gobernador PC/Blanco Mesa Verde
P.O. Box 90, Farmington, N.M. 87401	11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA တို့ခဲ့မှီရ ၌ ၌၌မှန်
below.)	Sec 25 T29N R5W 3 3 3 3 3 3
AT SURFACE: 1885' FNL & 1165' FEL	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL:	Rio Arriba New Mexico
AT TOTAL DEPTH:	14. API NO. 2545 - 2555
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	분성장하는 중 유욕실생
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
Ð	RILLING OPERATIONISTO SILLOR
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF: S	UBJECT TO COMPLIANCE WITH ATTACHED
	BENERAL REQUIREMENTS
	9 9 9 8 8 9 9 8 8 8 9 9 8 8 8 8 8 8 8 8
SHOOT OR ACIDIZE	<u> </u>
PULL OR ALTER CASING \(\begin{array}{cccccccccccccccccccccccccccccccccccc	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
MULTIPLE COMPLETE	This action is subject to administrative
CHANGE ZONES	This action is subject to administrative and appeal pursuant to SOCCFR 290.
ABANDON*	
(other) Change Locations	
including estimated date of starting any proposed work. If well is di measured and true vertical depths for all markers and zones pertinen This well location has been changed due to are location.	t to this work.)* Surveyed to the surveyed to
Old Location: 1840' FNL & 970' FEL	# # # # # # # # # # # # # # # # # # #
New Location: 1885' FNL & 1165' FE	OCT 23 1980
Subsufface Safety Valve: Manu. and Type	OIL CON COM. J
18. hereby certify that the foregoing is true and correct	
	2 1000 H
SIGNED NO. 100 ONOCC TITLE Production	ClerkDATE August 7, 1980
(This space for Federal or State offi	ice use)
Long	호롱창화됐 정국 현실수를
APPROVED BY TITLE TITLE	DATE
CONDITIONS OF APPROVAL IF ADX:	moli mell Tion Tion Tion Tion Tion Tion Tion Tion
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NMCSC NMCSC	8642 6 232

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*See Instructions on Reverse Side

NORTHWEST PIPELINE CORPORATION

DRILLING PROGNOSIS

June 16, 1980 DATE: San Juan 29-5 Unit #100

ELEVATION: 6795' GR 970' FEL & 1840' FNL I. LOCATION:

Sec 25 T29N R5W

SURFACE: BLM Rio Arriba Co., New Mexico

FED SF 078917 MINERALS:

FIELD: Gobernador Pictured Cliff / Blanco Mesa Verde

II. GEOLOGY: Surface Formation - San Jose

$\frac{\partial L}{\partial A}$	Formation Tops:	Depth	Formation Tops	<u>Depth</u>
Α.	Ojo Alamo	3015'	Lewis Cliff House	3885' 5615'
	Kirtland Fruitland	3230' 3585'	Menefee	5660'
	Pictured Cliffs	3790 '	Point Lookout Total Depth	5945 ' 6160 '

B. Logging Program: Production Casing Point - Gamma Ray-Induction

and Density. 100 Gauge at last connection above 5660', 5945', and at Total C. Natural Gauges: Depth. Gauge any noticeable increases in gas flow @ depth other than those noted above. Record all gauges on daily drilling and morning reports.

Drilling: III.

Contractor:

- B. Mud Program: Mud, water and gas will be furnished by Northwest Pipeline Corporation from Surface to Total Depth.
 - a) From Surface to Intermediate casing depth to be drilled with mud.
 - b) From Intermediate casing to Total Depth to be drilled with gas.
- While drill pipe is in use the pipe rams will be tested not less than once each day. The blind rams will be tested once each trip. All tests will be reported in the Northwest Pipeline tour reports as to time and date.

Materials:

A.	Casing Program: Hole Size 12-1/4"	Depth 0.H.	Casing Size 9-5/8"	WT & Grade 32.3# H-40 20# K-55	
	8-3/4" 6-1/4"	4090' 6160'	7" 4-1/2"		(3890' - 6160')

- Float Equipment:
 - a) Surface Casing: 9-5/8" B&W Regular Pattern Shoe.
 - b) Intermediate Casing: 7" Dowell guide shoe (Code #50101-070) and self fill insert float collar (Code #53003-070). Seven centralizers (Code #56011-070) spaced every other joint above the shoe. Place float one joint above shoe.
 - c) Liner: 4-1/2" Larkin geyser shoe (Fig 222) and Larkin Flapper type float collar (Fig 404). Burns liner hanger with neopreme pack off.
- Tubing Program: 6110' of 2-3/8", 4.7#, EUE, J-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom. 3800' of 1-1/4", 2.33#, J-55 IJ tubing w/ expendable check valve on bottom (PC).

D. Well Head Equipment: WKM well head. WKM representative to set slips and make cut off.

V. CEMENTING:

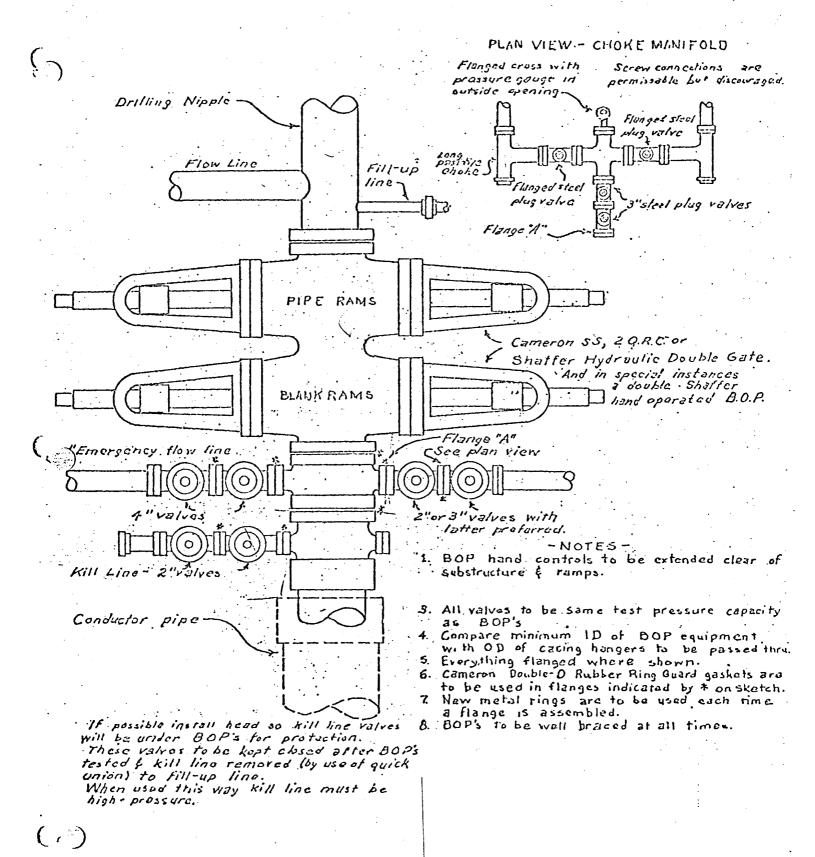
- A. Surface Casing: 9-5/8" Use 115 sks of Class "B" with 1/4# gel flake per sk and 3% CaCl₂ (100% excess to circulate). WOC 12 hrs. Test surface casing to 600 psi for 30 min.
- B. Intermediate Casing: 7" Use 130 sks of 65/35 poz with 6% gel. (Yield-1.63). Tail with 75 sks of Class "G" with 2% CaCl₂ (65 excess to cover Ojo Alamo). WOC 12 hrs. Run temp survey @ 8 hrs. Test casing to 600 psi.
- C. Production Liner: 4-1/2" Use 230 sks Class "B" with 4% gel and 1/4 cu.ft of fine Gilsonite/sk. Precede cement with 20 bbls water mixed with 3 sks of gel. (70% excess to circulate liner). Clean out with 6-1/4" bit to top of liner and pressure test with rig pump (test 12 hrs after plug is down). Lay down drill pipe and run 3-7/8" bit on an 2-3/8" EUE tubing to clean out liner. Perforate 18 hrs after plug is down.

F H. Wood

mir MJT/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 waterhole.
- 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.

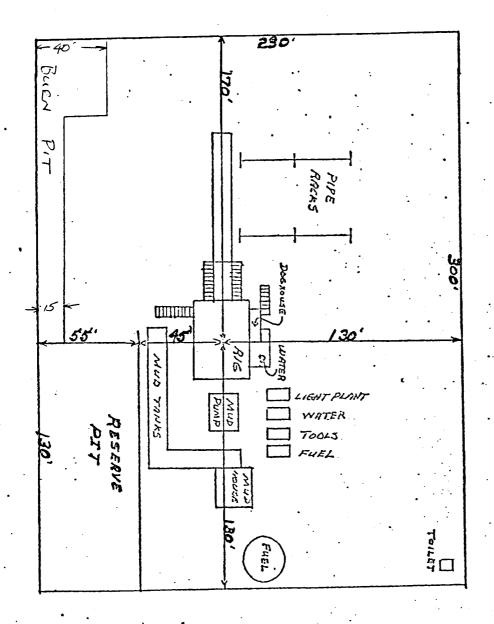
- 12. Operator's Representative: Paul Thompson P.O. Box 90 Farmington, New Mexico 87401. Phone: 327-5351 Extension # 115
- 13. Certification:

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

LOCATION LAYOUT SAN JUAN



DATE: 6/11/80 SCALE: 2 CM = 20

