SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

IINITED STATES

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.	LEASE	DESIGN	MOITA	AND	SERIAL	80.

	DEPARTMENT					70 - 199 X 4 1 1	
	5. LEANE DESIGNATION AND SERIA	L 80.					
	SF 078543						
APPLICATION	FOR PERMIT T	O DRILL, DI	EEPEN, OR	PLUG BA	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE	NAME
4. TYPE OF WORK	L 🗓	DEEPEN [LUG BAC		7. UNIT AGREEMENT NAME San Juan 32-7	Unit
b. TTPE OF WELL			single [▽]	MULTIPL	.в. [S. FARM OR LEASE NAME	01110
OIL GAS	LL X OTHER		ZONE X	ZONE		San Juan 32-7	Unit
, NAME OF OPERATOR						9. WELL NO.	
Northwest Pip	<u>eline Corporati</u>	on			:	#69	
. ADDRESS OF OPERATOR		ng 071	107			10. FIELD AND POOL, OR WILDCA	T
P.O. Box 90,	Farmington, New port location clearly and	I MEXICO 0/4 in accordance with	any State require	ments.*)		Basin Dakota	
At surface 7001	FNL & 880 * FEL	Section 35.	T32N, R7W			11. SEC., T., B., M., OR ELE. AND SURVEY OB AREA	
B 8 01	Same as above		•			R7	w
At proposed prod. zone	same as above	=		•	• •	Sec 35, T32N, R5W	•
4. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EST TOWN OR POST	OFFICE*			12. COUNTY OR PARISH 13. STA	TE
	outh of Ignacio	, Colorado					<u>Mexi</u> c
15. DISTANCE FROM PROPULOCATION TO NEAREST	SED*	790'	16. NO. OF ACRES	N LEASE	17. NO. TO T	OF ACRES ASSIGNED THIS WELL 320	
(Also to nearest drig 18, DISTANCE FROM PROPE	. unit line, if any)		19. PROPOSED DEP	тн	20. ROTA	RY OR CABLE TOOLS	
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	HILLING, COMPLETED, A	2500'	83001	\		Rotary	
21. ELEVATIONS (Show whe						22. APPROX. DATE WORK WILL	START*
ZI. ELEVANO.IS (DAON WAS	6730 '	GR				December 1980	
23.	F	PROPOSED CASIN	G AND CEMENT	ING PROGRA	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OT SETTI	NG DEPTH		QUANTITY OF CEMENT	
12-1/4"	9-5/8"	32.3# 350'		115 sx			
8-3/4"	7"	20# 4005' 1		-	40 sx		
6-1/4"	4-1/2"	10.5# & 11.	6# 830	O' Ngjar disibi	de Abir	, , , , , , , , , , , , , , , , , , ,	
•	ı	- Ú.				•	
		ပ် ့	n i ja jaka libi 🦸	, JULIER ASS	U. T		

Selectively perforate and stimulate the Dakota Formation Completion plans will be determined at Total Depth.

A BOP will be installed after the surface casing is set and cemented. All subsequent work will be conducted through the BOP's.

The North half of Section 35 is dedicated to this well.

Gas is dedicated.

RECEIVED

SEP 1 9 1980

IS ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposed to decided of plus back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program if any

one. If proposal is to drill or deeped directionally treater reventer program, if any.	ON; Telestine		· · · · · · · · · · · · · · · · · · ·
SIGNED Paul C. Thompson	TITLE _	Drilling Engineer	DATE 9-17-80
(This space for Kalendary (The Space for Kalendary (The Space for Kalendary (The Space)		and the second s	
PERMIT SO. AS AMENDED		APPROVAL DATE	
CONDITIONS OF FUNDAMENTAL AMPLIANCES F. SIMS DISTRICT ENGINEER	TITLE _	<u> </u>	DATE

*See Instructions On Reverse Side

el 3m

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107 kerised 10-1-78

STATE OF NEW MEXICO ERGY AND MINERALS DEPARTMENT

		All distances must be fo	om the cuter from	mderies r	The Section.			
Operator			Lease				Well No.	•
NORTHWEST PIPELINE CORPORATION			SAN JU	AN 32-7			69	
Unit Letter Section Township			Range		County	_		-
В	35	32N	7W_		San	Juan		
Actual Footage Loca		-				Da - ±		
860		orth line and	1570	fee	from the	East	line Dedicated Acreager	
Ground Level Elev:	Producing For	mation	Pool			İ		Астея
6719	Dakota	3	<u>Basin</u>	Dakota			320	70.00
2. If more the	nan one lease is	dedicated to the we	ll, outline eac	ch and ide	entify the ov	wnership (thereof (both as to	
dated by o	No If a is "no," list the	different ownership is unitization, force-poo answer is "yes," type owners and tract der	of consolidati	on	Unitizati	on n consolic	dated. (Use rever	se side of
••		ned to the well until a	all interests he ard unit, elimi	ave been nating su	consolidate	a (by con	can approved by the	
	 - +			1570 		best of Paul Name Paul	y certify that the info herein is true and con my knowledge and be C. Thompson	iplete to the
÷	! ! ! !	Sec.	 			Company North	ing Engineer west Pipeline ber 25, 1980	Corp.
<u>-</u>		35	i			shown notes under	by certify that the on this plot was plot of actual surveys many supervision, and the and correct to the edge and belief.	ted from field ade by me or that the same
	C29	cale: 1"=1000"	 	•		Register and	ember 170 190 de Protessional P	

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location.

UNITED STATES DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPORTS ON WELLS

	Form Approved. Budget Bureau No. 42-R1424
	5. LEASE SF 078543
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
-	7. UNIT AGREEMENT NAME
t	San Juan 32-7 Unit
	8. FARM OR LEASE NAME
_	San Juan 32-7 Unit
	9. WELL NO.
	#69
	10. FIELD OR WILDCAT NAME
	Basin Dakota
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
7	Sec 35 T32N R5W
	12. COUNTY OR PARISH 13. STATE
	San Juan New Mexico
	14. API NO.
Ε,	
	15. ELEVATIONS (SHOW DF, KDB, AND WD)
	6719' GR
	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
is	te all pertinent details, and give pertinent dates, directionally drilled, give subsurface locations and ent to this work.)*

(Do not use this form for proposals to drill or to deepen or plug back to a differer reservoir. Use Form 9-331-C for such proposals.) gas 1. oil M well other well 2. NAME OF OPERATOR Northwest Pipeline Corporation 3. ADDRESS OF OPERATOR P.O. Box 90, Farmington, New Mexico 87401 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 1 below.) 860' FNL & 1570' FEL AT SURFACE: AT TOP PROD. INTERVAL: AT TOTAL DEPTH: 16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE REPORT, OR OTHER DATA SUBSEQUENT REPORT OF: REQUEST FOR APPROVAL TO: TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES ABANDON* (other) Change Location 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly s including estimated date of starting any proposed work. If well i measured and true vertical depths for all markers and zones perti

This well location has been changed due to archaeological findings on

790' FNL & 880' FEL Old Location: 860' FNL & 1570' FEL New Location:



Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. I hereby county that the pregoing is true and correct	
SIGNED TITLE Production Clerk DATE	November 25, 1980
(This space for Federal or State office use)	
APPROVED BY SAME WENNING TITLE DAT	E
DISTRICT ENGINEER NMOCC	
TIVIOLO ENGINEER PARIOLO	

-	I TO LOUIS LAND	ALLOTTEE	OD TOU	DE NIANE
	SF-0785	43	, E	
	LEASE	Park III.		

UNITED STATES DEPARTMENT OF THE INTERIOR	5. LEASE 2.3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS (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.)	7. UNIT AGREEMENT NAME San Juan 32-7 Unit 8. FARM OR LEASE NAME
1. oil gas well other	San Juan 32-7 Unit 9. WELL NO. #69
2. NAME OF OPERATOR Northwest Pipeline Corporation 3. ADDRESS OF OPERATOR	10. FIELD OR WILDCAT NAME Basin Dakota
P.O. Box 90, Farmington, New Mexico 87401 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 35, T32N, R7W
AT SURFACE: 790' FNL & 880' FEL AT TOP PROD. INTERVAL: Same as above AT TOTAL DEPTH: Same as above	12. COUNTY OR PARISH 13. STATE San Juan A SA New Mexico 14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD) 6730' GR
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF: TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES ABANDON* SUBSEQUENT REPORT OF: SUBSEQUENT REPORT OF: ABANDONT APPROVAL TO: A	(NOTE: Report results of multiple completion or zone change on Form 9-330.)
(other) Cement Change. 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly statincluding estimated date of starting any proposed work. If well is measured and true vertical depths for all markers and zones pertine	te all pertinent details, and give pertinent dates directionally drilled, give subsurface locations and to this work.)*
We would like to change the Surface cement fon Application.	The state of the s

Ft. Subsurface Safety Valve: Manu. and Type _ 1980 Sept 19. 18. I hereby certify that the foregoing is true and correct APPROVED OC SIGNED == State 101 (This space for Federal or State office use) T mett s. noithple al drictnes bielt seauly evede frenorthees DATE . Terrorit DISTRICT ENGINEER

NORTHWEST PIPELINE CORPORATION

DRILLING PROGNOSIS

Well Name: San Juan 32-7 Unit #69 September 17, 1980 Date:

ELEVATION: 6730' GR LOCATION: 790' FNL & 880' FEL

> Section 35, T32N, R7W SURFACE:

San Juan Co., New Mexico MINERALS: Federal SF 078543

FIELD: Basin Dakota

II.	GEO A.	LOGY: Surface - S Formation: Ojo Alamo Kirtland Fruitland Pictured Cliffs	<u>Depth</u> : 3038' 3126' 3436'	Formation: Mancos Gallup Greenhorn Graneros	Depth: 6305' 7130' 8020' 8070'
		Pictured Cliffs Lewis Cliff House	3436' 3596' 3805' 5825'		8070' 8200' 8300'

Point Lookout 6020' B. Logging Program: Gamma Ray Induction & Density at Total depth.

C. Natural Gauges: Gauge @ 5825', 7130', 8200', 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.
- 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	<u>Depth</u>	Casing Size	Wt & Grade
12-1/4"	350'	9-5/8"	36# K−55
8-3/4"	40051	7''	20# K-55
6-1/4"	8300'	4-1/2"	10.5# K-55 (To 6800')
6-1/4	8500	4-1/2"	11.6# K-55 (6800' to TD)

- Float Equipment:
 - a) Surface Casing: 9-5/8" Larkin Guide Shoe and Self-fill insert float valve.
 - 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.
- of 2-3/8", 4.7#, J-55, 10 RD EUE tubing with common seating nipple above bottom joint.

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:

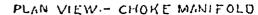
- A. Surface Casing: 9-5/8" Use 115 sks of C1 "B" cement with 1/4# gel flake per sack and 3% CaCl₂ (100% excess to circulate 9-5/8" casing). WOC 12 hrs. Test to 600 psi for 30 min.
- B. Intermediate Casing: 7" Use 65 sks of 65/35 Class "B" poz with 12% gel and 15.2 gal of water per sk. Tail in with 75 sacks of Class "B" with 2% CaCl₂ (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 C1 "B" cement with 8% gel, 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. (660 cu.ft of slurry), (50% excess to fill to intermediate csg). Run temperature survey after 8 hrs. Perforate after 18 hrs.

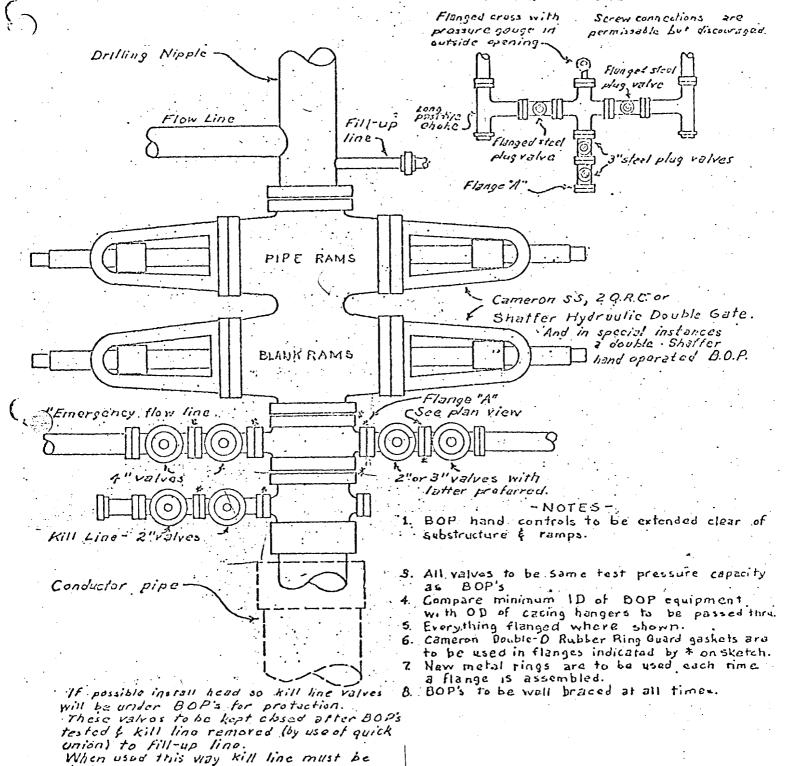
F. H. Wood

PCT/djb

Original: Well File

sc: Regular Distribution





SINGLE PIPE RAM BLOWOUT PREVENTOR HOOKUP

high - prossure ..

((**)

- 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. <u>Location and Type of Water Supply:</u> 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.

ll. 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.

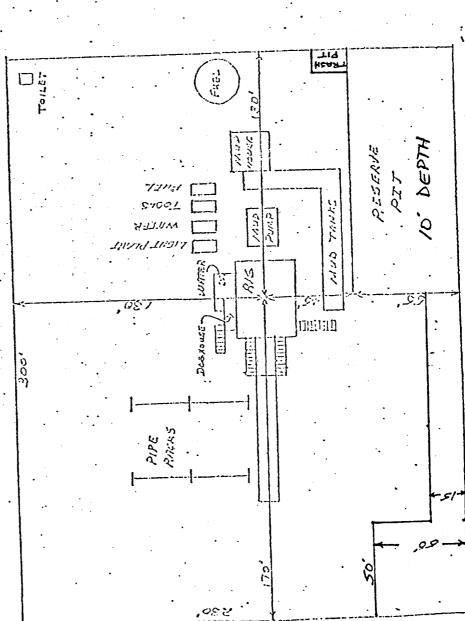
Paul C. Thompson
Drilling Engineer

PCT/djb

NO THWEST PITHEIN INTON

JAKOTAS. & MESA VERDET

SAN JUAN 32-7 UNIT #69



DATE. 9/17/80 SCALE: 1cm = 20

