#### SUBMIT IN TRIPLICATE.

Form approved. Budget Bureau No. 42-R1425.

(May 196)	UNIT	ED STATES	(Other instruct reverse sic	tons on ie) 32	1-039-Z	-2469	
	DEPARTMENT	OF THE INTE	ERIOR	5. Lt	EASE DESIGNATION	AND SERIAL NO.	
		GICAL SURVEY			SK-SF-0786		
APPLICATION	FOR PERMIT T	O DRILL, DEE	PEN, OR PLUG B.	ACK ". "	ANDIAN, ALLOTTER	OR TEIRE NAME	
In. TYPE OF WORK					NIT AGREEMENT N	AME	
	DRILL X DEEPEN - PLUG BACK -					9-5 UnitCOM	
b. Type of Well			SINGLE MULTIPL	E X S. F.	ARM OR LEASE NA		
2. NAME OF OPERATOR	i.i. Qi			~	san Juan 2	9-5 UnitCON	
Northwest Pin	<u>eline Corporati</u>	on			FELL NO.		
3. ADDRESS OF OPERATOR	<u>GITTIC OULDOLAD</u>				#104	Do Williams	
P.O. Box 90,	Farmington. New	Mexico 87401			FIELD AND POOL	burnador	
4. LOCATION OF WELL (Re	port location clearly and	in accordance with an	y State requirements.*)	1	SEC., T., B., M., OR	BLE.	
OFO! TH	L & 1720' FEL	Sec 10 T29N	R5W	1	AND SURVEY OR A	REA	
At proposed prod. zone	Same as above	<b>;</b>		· · Sec	10 T29N	R5W	
14. DISTANCE IN MILES A			FICE*		COUNTY OR PARISH		
	ast of Blanco,			Ric	Arriba	New Mexico	
15. DISTANCE FROM PROPOS		16.	NO. OF ACRES IN LEASE	17. NO. OF ACR			
LOCATION TO NEAREST PROPERTY OR LEASE LI	NE, FT.	950'	n/a <b>560</b>	160 PC	320 MV		
(Also to nearest drig. 18, DISTANCE FROM PROPE	SED LOCATIONS	19.	PROPOSED DEPTH		TARY OF CABLE TOOLS		
TO NEAREST WELL, DR OR APPLIED FOR, ON THE	HELLING, COMPLETED.	N/A	5800'		otary ·		
21. ELEVATIONS (Show whe				22	. APPROX. DATE W	OBE WILL START	
6405' GR					September	<u> 1980                                     </u>	
23.	F	ROPOSED CASING A	AND CEMENTING PROGRA	M			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEME	NT	
12-1/4"	9-5/8"	36#	200'		Sks		
8-3/4"	7"	20#	3695'	165	sks		
6-1/4"	4-1/2"	10.5#	3495' - 5800'	235	sks	***	
		·	•				
				· / /	1110		
	_:			ر اها	10G 8 100	<i>.</i>	
Selectively p	erforate and s	timulate the	Pictured Cliff &	Mesa Ver	18 Chotmers to	ns. <sub>[</sub>	
Completion pl	ans will be de	termined at T	otar bepun.	\	DIST COM.		
4 DOD 111 ba	. inatalled oft	on the surfac	e casing is set a	nd cement	ed. All s	bsequent	
A BUP WILL DE	conducted thro	ugh the BOP's	-				
				1 01455	11 and 4	ha Fast half	
The Northeast	quarter of Se	c 10 is dedic	ated to the Picut	red CIIII	well and t	ne East Hair	
of Section 10	) is dedicated	to the mesa					
Gas is dedica	ated.		ベニ	CEIVE			
		•		a 100	g s		
	1.15 1	·····································	4ministratists	UT: 24 198	J.C		
	( ) The supplier of the suppli	proposal is to deepen	or plug back, give data on I	resent productiv	e zone and propo	sed new productive	
zone. If proposal is to	drill or deepen direction	ally, give pertinent da	or ping back, give one, on i	nd measured and	I true vertical dep	ths. Give blowout	
preventer program, if an	у.				<u> </u>		
77 /	1-1	aCina	Drilling Engine	eer	June	e 10, 1980	
SIGNED Faul	C. Thomy	TITLE	71 111115 1115111		DATE		
	est or State office use)						
MICROVED	,		APPROVAL DATE				
AS METHOR	<del>)</del>		AFTROVAL DATE				
Management and the first		TITLE			DATE		
ATTEROVED AND ACCOUNT							

\*See Instructions On Reverse Side

# OIL CONSERVATION DIVISION

# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Form C-107 Revised 10-1-78

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

		Att district most at the					T
Operator			Lease	•			Well No.
NORTHWEST PIPELINE CORPORATION SAN JUAN 29-5 UNIT Com 104							
Unit Letter	Section	Township		Range County			
	1	29N	5	W	Rio A	rriba	
B	10	278			1		
Actual Footage Loc			3.000		177		
950	feet from the	North line and	1720	feet	from the E	ast	line
Ground Level Elev.	Producing For	mation	Pool		gobe	rnadou Dedic	ated Acreage:
6405	Pictured	Cliffs/Mesa Verde	Blanco	Mesa Verd	le/ <b>/ndesi</b>	gnated IIV-3	320; PC160 Acres
							. Lalam
1. Outline th	e acreage dedica	ted to the subject we	ell by cole	ored pencil of	r hachure n	narks on the pia	r below.
2. If more th	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).						
interest at	id loyally).				\$44	144 47 63 -3 20 -	C GGH SHILLION
	, ,	er		to the well	have the in	terests of all o	wners been consoli-
3. If more the	in one lease of d	ifferent ownership is	dedicated	to the well,	nave the in	MAY 2 6	1000
dated by c	ommunitization, u	mitization, force-pooli	ng. etc?			. MALAC	) 1300
·				0			
Y Yes	□ No If an	swer is "yes," type o	f consolid	dationCOM	nunitizat	,1011	
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7.5	:- 4417 list the	owners and tract desc	rintions v	vhich have ac	tually beer	consolidated.	(Use reverse side of
		. Owners and nacraces	riptions v	Inion navo ac		-	· ·
this form i	f necessary.)	<del></del>					
No allowal	ole will be assign	ed to the well until al	linterests	s have been c	consolidate	d (by communit	ization, unitization,
forced-non	ling or otherwise)	or until a non-standar	d unit, eli	iminating suc	h interests	, has been appro	oved by the Commis-
_ =	ing, or otherwise,	0. 0		J		•	
sion.					. 4		
					Carrier Paris	CER	TIFICATION
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	i		9501	,		tained herein is	true and complete to the
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## NORTHWEST PIPELINE CORPORATION

#### DRILLING PROGNOSIS

San Juan 29-5 Unit Com #104

DATE: June 16, 1980

I. LOCATION: 950' FNL & 1720' FEL

ELEVATION: 6405' GR

Sec 10 T29N R5W

Rio Arriba Co., New Mexico

SURFACE: BLM

MINERALS: FED SF 078642

Undesignated Pictured Cliff/Blanco Mesa Verde FIELD:

II. GEOLOGY: Surface Formation - San Jose

$\frac{\partial Z}{A}$ .	Formation Tops:	Depth	Formation Tops	Depth
***	Ojo Alamo	26051	Lewis	3495'
	Kirtland	29451	Cliff House	5195'
	Fruitland	3035 <b>'</b>	Menefee	5295
	Pictured Cliffs	3310'	Point Lookout	5515 <b>'</b>
	lictured offits	3310	Total Depth	5800'

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

C. Natural Gauges: Gauge at last connection above 5295', 5515', and at Total Depth. Gauge any noticeable increases in gas flow @ depth other than those noted above. Record all gauges on daily drilling and morning reports.

### III. Drilling:

- A. 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.
- C. 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.

#### IV. Materials:

A. Casing Program:

Hole Size	Depth O.H.	<u>Casirg Size</u>	WI & Grade	-
12-1/4"	200'	9-5/8"	32.3# H-40	
8-3/4"	3695'	7"	20# K-55	
6-1/4"	5800 <b>'</b>	4-1/2"	10.5# K-55	(3495' - 5800')

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.
- C. Tubing Program: 5750' of 2-3/8", 4.7#, EUE, J-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom. 3300' of 1-1/4", 2.33#, J-55 IJ tubing w/ expendable check valve on bottom (PC).

#### Page #2

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

# V. CEMENTING:

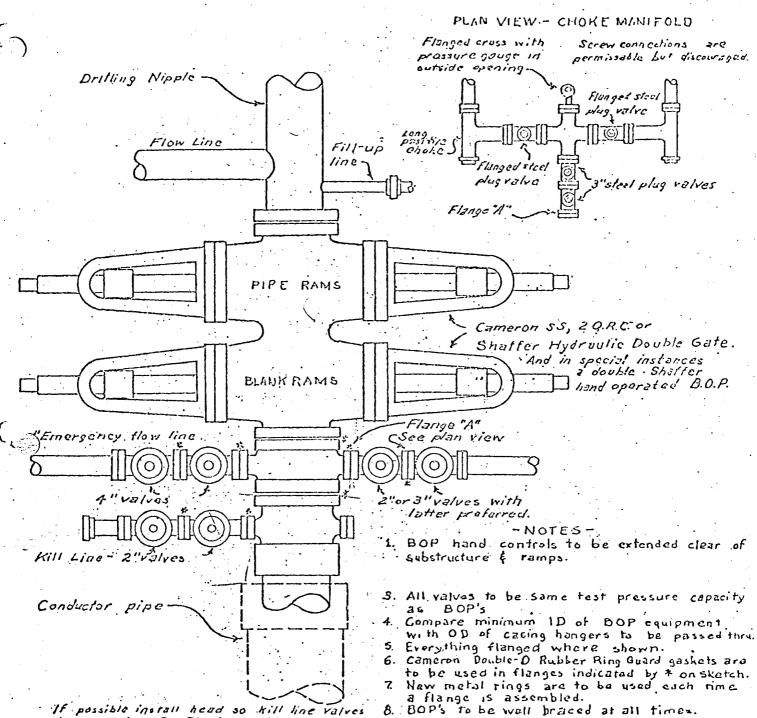
Surface Casing: 9-5/8" - Use 115 sks of Class "B" with 1/4# gel flake per sk and 3% CaCl<sub>2</sub> (100% excess to circulate). WOC 12 hrs. Test surface casing to 600 psi for 30 min.

Intermediate Casing: 7" - Use 115 sks of 65/35 poz with 6% gel. (Yield-1.63). Tail with 75 sks of Class "G" with 2% CaCl<sub>2</sub> (65 excess to cover В. Ojo Alamo). WOC 12 hrs. Run temp survey @ 8 hrs. Test casing to 600 psi.

C. Production Liner: 4-1/2" - Use 235 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.

Originial: Well File

sc: Regular Distribution



If possible install head so kill line valves will be under BOP's for protection. These valves to be kept closed after BOP's tested & kill line removed (by use of quick union) to fill-up line.

When used this vipy kill line must be high-prossure.

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:

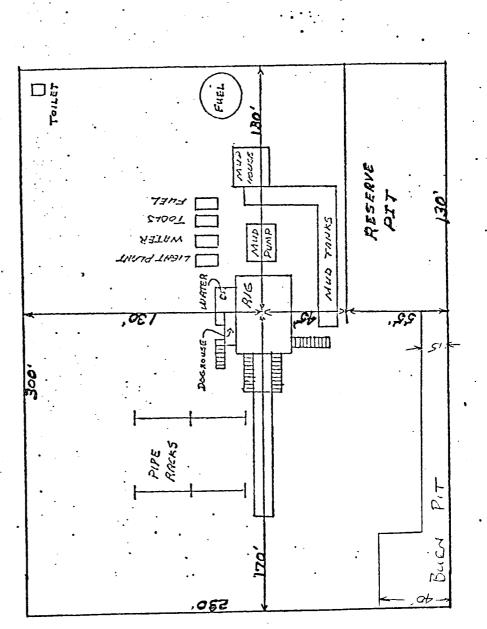
I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will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

NORTHWEST PIPELINE CORPORATION

LOCATION LAYOUT



SCALE: 2 CM

