SUBMIT IN TRIPLICATE*

UNITED STATES

(Other instructions on reverse side)

	Approved Bureau	42-R142

				2100		30-039-22471
	DEPARTMENT	OF THE I	NIE	RIOR		5. LEASE DESIGNATION AND SERIAL NO.
	GEOLO	GICAL SURV	ΕY			USA-SF-078642-ADSSRIVA
A PPI ICATION	V FOR PERMIT	O DRILL I	DFFP	EN OR PILIG	RACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
a. TYPE OF WORK	4 TON TEMPOR	O DINEL,	DLLI	ETT, OR TEOU	- CIC	
	LL 🛛	DEEPEN		PLUG BA	CK 🗌	7. UNIT AGREEMENT NAME
b. Type of Well						San Juan 29-5 Unit Com
OIL GAS WELL OTHER SINGLE MULTIPLE ZONE ZONE					S. FARM OR LEASE NAME	
. NAME OF OPERATOR						San Juan 29-5 Unit Com
	ipeline Corpora	tion		·		9. WELL NO.
. ADDRESS OF OPERATOR						#73
P.O. Box 90	, Farmington, N	lew Mexico	8740	1		Gobernador Picutred Clif
. LOCATION OF WELL (R At surface	eport location clearly and					Blanco Mesa Verde
1	1680' FNI	. & 795' FE	L S	Sec 15 T29N R	.5W	11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zon	e					
	Same as ab			·		Sec 15' T29N R5W 12. COUNTY OR PARISH 13. STATE
4. DISTANCE IN MILES A	AND DIRECTION FROM NEAD	REST TOWN OR POS	T OFFIC	E.		12. COUNTY OR PARISH 13. STATE
30 Miles Ea	st of Blanco, N	lew Mexico			.,	Rio Arriba New Mexico
5. DISTANCE FROM PROPO LOCATION TO NEAREST	r		16. N	O. OF ACRES IN LEASE	TO TI	OF ACRES ASSIGNED HIS WELL,
PROPERTY OR LEASE I.	INE, FT.	95 '		N/A U40	Mesa V	/erde / 320, PC 160
8. DISTANCE FROM PROP TO NUAREST WELL, D	OSED LOCATIONS			ROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS
OR APPLIED FOR, ON TH	IS LEASE, FT.	N/A	61.	50'	Rot	ary
1. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*
6755' GR						Sepember 1980
3.	F	ROPOSED CASI	NG AN	D CEMENTING PROGR	AM	
		WEIGHT PER F		SETTING DEPTH		QUANTITY OF CEMENT
SIZE OF HOLE	SIZE OF CASING	36#		200 '	115 s	
12-1/4"	<u>9-5/8"</u>		<u> </u>			
8-3/4" 6-1/4"	" 7" 20# 10.5#			4060 200		
0-1/4	4-1/2	10.5#		3860'-6150'	230 s	SKS
Selectively	nerforate and	stimulate	tha N	Maca Varda and	Dieture	d Cliffs Formation.
	plans will be d				ircente	d CIIIIS FORMACION.
Completion	prans will be o	etermineu	at I	otar bepth.		
A ROP will	he installed of	tor the cu	rfan	oncina ia cot	and ac	mented. All subsequent
	e conducted thr				and ce	emented. All subsequent
WOLK WILL D	e conducted thi	ough the b	OF S.	•		
The Fact ha	1f of So TAN 1	Maria	atod	to the Moss Ve	rda1	1. The Northeast
quarter of	Section 15 deci			e Pictured Clif		
quarter or	Section 13 alega	ELICE DO L		s riccared citt	Ta well	- • ì
Gas is dedi	cated. AUG	71000		•		
Gas is dedi		71980	1		•	
	OIL CON	I. COM.				
	V DIS⁻	г. з		U. C. GEDILOGICA	L SURVAY	
				FARMINGTON	, 14	
ABOVE SPACE DESCRIBE	PROPOSED PROGRAM II	proposet is to deep	pen or j	plug back give data on t	resent prod	uctive zone and proposed new productive
eventer program, if an	y.	nj, give pertinen		#	sie action	l and true varigininistrative ive blowout is subject to the 2901
					tivo leana	uant to 30 CFR 2901
- Land	1 Thom	25001	I	Drilling Engine	er	DATE July 15, 1980
81GNED / C	HK(1) Vinompson	<u> </u>	TI.E			DATE VILLE
(This space Ar Eedy	MARITHME DE			DRILL	ING OPER	ATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED						
PERMIT NO GENERAL REQUIREMENTS"						
Bu	ac Warney	•		G L I I		. •
CONDITIONS OF APPROX	VES IT SIMS //	TI	TLE			DATE
DISTR	RICT ENGINEER	į				

ah 3mi

*See Instructions On Reverse Side

Form C-102 kevised 10-1-78

STATE OF NEW MEXICO **CHERGY AND MINERALS DEPARTMENT**

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

All distances must be from the cuter boundaries of the Section. Well No. Operator SAN JUAN 29-5 UNIT COM 73 NORTHWEST PIPELINE CORPORATION Range County Section Unit Letter 5W Rio Arriba 29N Actual Footage Location of Well: 795 East line North feet from the feet from the line and Dedicated Acreage: Pool Gobernador Pictured Cliffs Ground Level Elev. Producing Formation Pictured MV 320 PC **16**0 Acres Blanco Mesa Verde 6755 Mesa_Verde Cliffs 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat 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? Communitization It answer is "yes," type of consolidation ___ Yes Yes No. If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)_ No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name Paul C. Thompson Position 7951 Drilling Engineer Company Northwest Pipeline Corp June 3, 1980 15' OIL CON. COM. I hereby certify that the well location shown on this plat was plotted from field DIST. 3 notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Certificate 3950

2000

1320 1650

660

1500

1000

500

NORTHWEST PIPELINE CORPORATION

DRILLING PROGNOSIS

San Juan 29-5 Unit Com #73

DATE: July 15,1980

I. <u>LOCATION</u>: 795' FEL & 1680' FNL

ELEVATION:

6755' GR

Sec 15 T29N R5W

Rio Arriba Co., New Mexico

SURFACE: BLM

MINERALS: FED SF 078642-A

FIELD: Blanco Mesa Verde

Gobernador Pictured Cliffs

II. GEOLOGY: Surface Formation - San Jose

A.	Formation Tops:	Depth	Formation Tops	Depth
	Ojo Alamo	2925'	Lewis	3860'
	Kirtland	3195 '	Cliff House	5550 '
	Fruitland	3395 '	Menefee	5640
	Pictured Cliffs	3665 '	Point Lookout	58851
			Total Depth	6150 '

B. Logging Program: Intermediate Casing: IES; & Gamma Ray Density/Neutron Production Casing Point: Gamma Ray-Induction and Density

C. Natural Gauges: Gauge at last connection above 5640', 5885', 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.	Casing Size	WT & Grade	
12-1/4"	200'	9-5/8"	32.3# H-40	
8-3/4"	4060'	`7"	20∦ K-55	
6-1/4"	6150'	4-1/2"	10.5# K-55 (3860' - 6150')

B. Float Equipment:

a) Surface Casing: 9-5/8" - B&W Regular Pattern Shoe.

- b) Intermediate Casing: 7" Dowell guide shoe (Code #50101-070) and sel: 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: 6100' of 2-3/8", 4.7#, EUE, J-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom. 3700' of 1-1/4", 2.33#, J-55, IJ tubing with expendable check valve on bottom (PC).

Drilling Prognosis
San Juan 21-5 Unit Com #73
Page #2

D. Well Head Equipment: WKM Well Head. WKM representative to set slips and Make cut off.

V. Cementing:

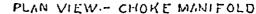
- A. Surface Casing: 9-5/8" Use 115 sks of Class "B" with 1/4# gel flake per sk and 3% CaCl₂ (100% excess to circulate). WOC 12 hrs. Test surface casing to 600 psi for 30 min.
- B. Intermediate Casing: 7" Use 80 sks of 65/35 poz with 12% gel. (Yield 2.72). Tail in with 75 sks Class "G" with 2% CaCl₂ (65% excess to cover Ojo Alamo). WOC 12 hrs. Run temp survey at 8 hrs. Test casing to 600 psi.
- C. Production Liner: 4-1/2" Use 230 sks of Class "B" with 4% gel and 1/4 cu.ft of fine Gilsonite persk. Precede cement with 20 bbls water mixed with 3 sks 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 2-3/8" EUE tubing and clean out liner. Perforate 18 hrs after plug is down.

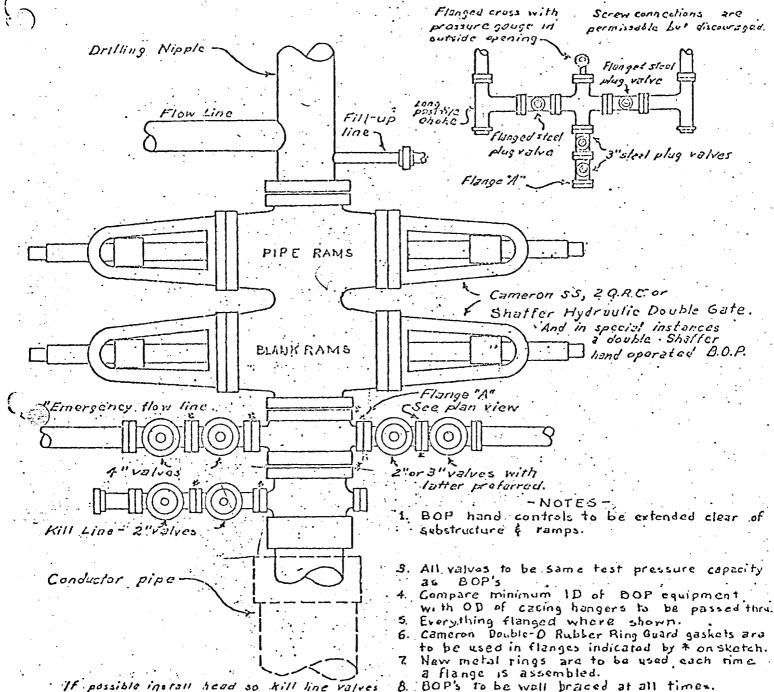
F. H. Wood

MJT/djb

Original: Well File

sc: Regular Distribution





"If possible inerall head so kill line valves will be under BOF's for protection.
These valves to be kept closed ofter BOP's tested & kill line removed (by use of quick union) to fill-up line.
When used this vay kill line must be high prossure.

SINGLE PIPE RAM BLOWOUT PREVENTOR HOOKUP

(2)

- 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.

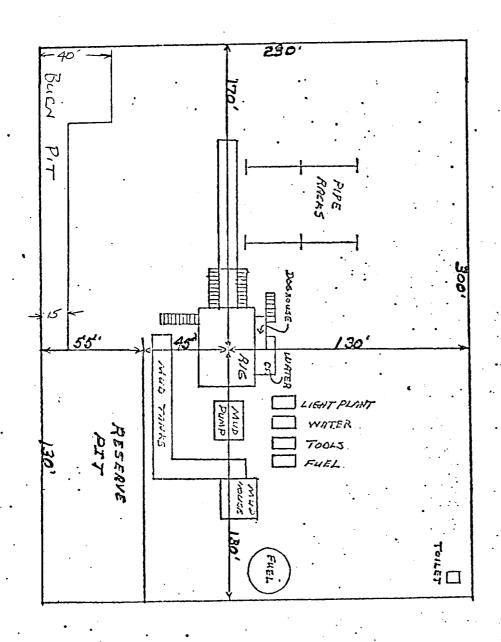
12. Operator's Representative: Paul Thompson - P.O. Box 90 - Farmington, New Mexico 87401. Phone: 327-5351 Extension # 115

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



DATE:

