of 5mh

## SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side) UNITED STATES DEPARTMENT OF THE INTERIOR

30 - 039 - 22098 5. LEASE DESIGNATION AND SERIAL NO.

GEOLOGICAL SURVEY						SF 080069			
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
b. Type of Well	LL X	DEEPEN			JG BAC		7. UNIT AGREEMENT NAME San Juan 29-5 Unit 8. FARM OR LEASE NAME		
WELL W	ELI, A OTHER			NE X	ZONE		San Juan 29-5		
	ipeline Corpora	tion 					9. WELL NO.		
3. Address of Operator P.O. Box 90	- Farmington, 1	N.M. 8740	1				97 10. GELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL (R	eport location clearly and		th any S	tate requiremen	ats.*)		Blanco Pictured Cliffs		
o At surface 1160'	FSL ¢ 950' FEL						11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zon	e					. ,	Sec. 15, T29N, R5W		
14. DISTANCE IN MILES .	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE				12. COUNTY OR PARISH   13. STATE		
	VA						Ric Heche New Mexic		
15. DISTANCE FROM PROPO LOCATION TO NEAREST	r		16. NO				OF ACRES ASSIGNED HIS WELL		
PROPERTY OR LEASE 1 (Also to nearest drig	z. unit line, if any)	0'		NA		3	160		
18. DISTANCE FROM PROP TO NEAREST WELL, D OR APPLIED FOR, ON TH	RULLING. COMPLETED.	00'+	19. PR	PROPOSED DEPTH 20. ROT.			ary or cable tools Rotary		
21. ELEVATIONS (Show who			<u> </u>			<u> </u>	22. APPROX. DATE WOBE WILL START		
6818 <b>'</b> (	GR						July 30, 1979		
23.	I	PROPOSED CASI	NG AND	CEMENTING	PROGRA	М			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот	SETTING D	ЕРТН		QUANTITY OF CEMENT		
12 1/4"	8 5/8"	24#		<u> 150'</u>			sks.		
6 3/4"	2 7/8"	6.4#		3900 <b>'</b>		120	sks.		
A BOP will be All subsequer The SE/4 of S Gas is dedicated and the ABOVE SPACE DESCRIBE ZONE. If proposal is to	: PROPOSED PROGRAM: If drill or deepen directions	er the surf	ace cucted this	through well.	the Bo	run ar	:		
preventer program, if any 24.  SIGNED	lirjs		rie Pr	oduction	Engine	eer	6/1/79		
(This space for Fede	rator State office use)					· · · · · · · · · · · · · · · · · · ·			
PERMIT NO.		· · · · · · · · ·	<del></del>	APPROVAL DATE					
APPROVED BY CONDITIONS OF APPROV	AL, IF ANY:	<b>T</b> II	ri.e		<del></del>		DATE		

LOGICAL SURVEY

JUN 12 1979

\*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

# TW MEXICO 87501 Form C-102 Revised 10-1-78

All distances must be from the cuter houndaries of the Booten

Operator	·	The state of the s	ine cuter boundaries	er the Section.			
1	DIDELTER GODD	00 A M TO 11	Lease			Well No.	
Unit Letter	PIPELINE CORP		I SAN JUAN 29			97	
P	15	Township 29N	Range 5W	County Rio	Arri ba	-	
Actual Footage Loc	feet from the	South line and	950	feet from the	East	line	
Ground Level Elev. 6818	Producing For		Pool GO POEKA		<del></del>	edicated Acreage:	
1. Outline th		ted to the subject we	ell by colored pend	il or hachure	marks on the	nlat below	
2. If more th						reof (both as to working	
3. If more than one lease of different ownership is dedicated to the well, have the interests of all ownership consolidated by communitization, unitization, force-pooling.etc?							
Yes Yes		swer is "yes;" type o			8	N 1 9 1979	
If answer i	is "no;" list the of	owners and tract desc	riptions which have	e actually be	en consolidate	CON COM d Use reverse side of DIST. 3	
No allowab	ole will be assigne	ed to the well until all or until a non-standare	interests have bee	en consolidat such interest	ted (by comme ts, has been a	suitization, unitization, pproved by the Commis-	
r							
	i I		! 		(	CERTIFICATION	
	i		ļ		1	and the second second	
	. İ		1		1	tify that the information con- n is true and complete to the	
	1				1	nowledge and belief.	
	i				Wille	and Billing	
		+			Name W.J. Bil	lman	
	1				Position		
	; 					Engineer	
	i			9	Company Northwes	st Pipeline Corp.	
	1 5	ec.		W.	Date		
	<u> </u>		OILICOTO 3	> /	July 30,	1979	
	1	15		4			
	i	/			i	rtify that the well location s plat was plotted from field	
	j L		SF 080	069	1	ual surveys made by me or	
	[		ì	i.	1	pervision, and that the same	
	İ		i	9. 3. 3.	knowledge ar	correct to the best of my and belief.	
	· <del>- +</del> -		·	950'			
			1		Date Surveyed	1820 CAPO	
	 				Apri/1(2)	1979 fessional Engineer	
	i				and/or Land Su		
					Certificate No.	Kerryr,	
0 330 660 9	!       10 1320 1650 1980	2310 3840 2000	1	1	3950		

#### OPERATIONS PLAN

San Juan 29-5 Unit #97

June 4, 1979

I. LOCATION: SE/4 SE/4 Sec. 15, T29N, R5W

LEASE NUMBER: SF 080069

FIELD: Blanco Pictured Cliffs

ELEVATION: 6818'

# II. GEOLOGY:

Α.	Formation Tops	Depth:
	Ojo Alamo	2897 <b>'</b>
	Kirtland	3128'
	Fruitland	3477 <b>'</b>
	Pictured Cliffs	3787 <b>'</b>
	Total Depth	3800 <b>'</b>

- B. Logging Program: IES, CNL-FDC
- C. Coring Program: None
- D. Testing Program: None

#### III. DRILLING:

- A. Anticipated starting date and duration of activities: July 25, 1979, 2 weeks.
- BOP: Blind rams and pipe rams, 10", 900 series, double gate, rated at 3000 PSI.
- C. Mud Program:
  - a) Spud Mud: Water, lime and gel.
  - b) Surface to 2950'.

Viscosity: 25-30 sec/qt. Weight: 8.9-9.0 #/gal. Water Loss: 7-12 cc

Ph: 8.5-9.5

c) From 2950' to Total Depth.

Viscosity: 38-60 sec/qt. Weight: 9.0-9.5 #/gal. Water Loss: 7-12 cc

Ph: 8.5-9.5

#### IV. MATERIALS:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	Wt. &	Grade	<u>Depth Set</u>
12 1/4"	150'	8 5/8"	24#	K-55	150'
6 3/4"	3800 <b>'</b>	2 7/8"	6.4#	J-55	T.D.

Operations Plan San Juan 29-5 #97 Page 2

# V. <u>CEMENTING</u>:

A. Surface Casing: 8 5/8" - Use 90 sks. Class "B" cement with 1/4# flocele per sack and 3% Calcium Chloride (100% excess to circulate). WOC 12 hours Test surface casing to 600 PSI for 30 minutes.

B. Production Casing: 2 7/8" - Use 120 sacks 65/35 poz with 10% gel and 1/4 cu. ft. fine gilsonite per cu. ft. slurry and tail in with 50 sacks Class "B" cement with 2% Calcium Chloride. WOC 12hours. Run temperature survey after 12 hours.

SGK, th

NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

for the

San Juan 29-5 Unit

Well #97

- 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. <u>Location of Tank Batteries</u>; <u>Production Facilities</u>; and <u>Production</u>, <u>Gathering and Service Lines</u>: 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 San Juan 29-6 Unit Water Well in the SW/4 28, T29N, R6W.
- 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. <u>Wall Site Layout</u>: 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.

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: S.G. Katirgis, P.O. Box 90 - Farmington, New Mexico 87401. Phone: 327-5351 Extension #107.

## 13. Certification:

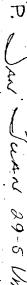
I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will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

<u>6-//-79</u> Date

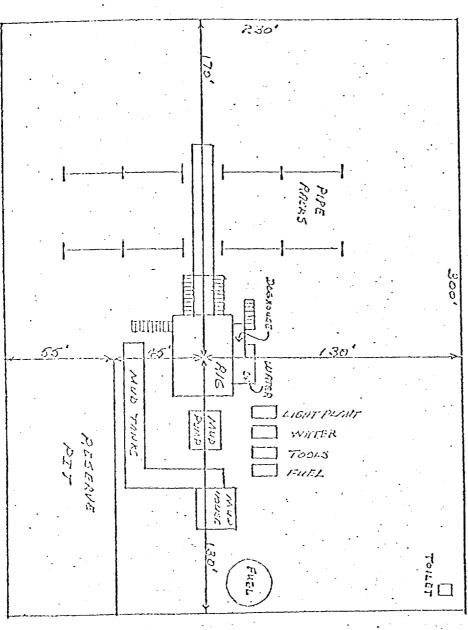
S.G. Katirgis
Production Engineer

SGK/ch

Vicinity Map For Northwest Pipeline #97 San Juan 29-5 Unit 1160' FSL \$ 950 FWL San Juan County, New Mexico



FREE



SCALE: DATE: 1cm = 20'