#### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

UNITED STATES

DEPARTMENT OF THE INTERIOR

	5. BEASE BESIGNATION AND SERIAL NO.							
APPLICATION	6. IF INDIAN, ALLOTTEE OR TRIBE NAME							
1a. Type of work	ILL [3]						Jicarilla Anache 7. UNIT AGREEMENT NAME	
b. TYPE OF WELL	ILL LN	DEEPEN		PL	UG BA	CK []	7. UNIT AGREEMENT NAME	
OR. G WELL G W	AS OTHER			INGLE []	MULTIP ZONE	LE 🗍	8. FARM OR LEANE NAME	
Northwest	Jicarilla 93 9. WELL NO.							
	90, l'armington.	N M 871	10.1				7 10. FIELD AND POOL, OR WILDCAT	
4. LOCATION OF WELL (R. At Surface								
145	Gavilan Pictured Cliffs 11. SEC., T., R., M., OR BLK.							
At proposed prod. zon							AND SURVEY OR AREA	
14. DISTANCE IN MILES A	As above	REST TOWN OF PO	ST ARELO	p. 1			Sec. 32, T271; R3W	
		and town on to	SI OFFICE	<b>.</b> -			12. COUNTY OR PARISH 13. STATE	
15. DISTANCE FROM PROPO- LOCATION TO NEALEST	SED*		16, NO	NO. OF ACRES IN LEASE   17		17. NO. (	Rio Arriba N.M.	
PROPERTY OR LEASE L (Also to nearest drig	INE. FT	1055'	<b>!</b>			TO THIS WELL		
18 DISTANCE FROM PROP TO NO DEST WELL, DI	OSED LOCATION*		19. PROPOSED DEPTH		20. ROTA	160  0. ROTARY OR CABLE TOOLS		
OR APPL D FOR, ON 1HI	S LEASE, FT.	NA 4118		Roi	Rotary			
21. ELEVATIONS (Show who		OD.					22. APPROX, DATE WORK WILL START*	
<u></u>	7117'				·		Sept. 30, 1977	
	T	PROPOSED CASI	NG AND	CEMENTING	PROGRA	M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER P	оот	OOT SETTING DEPTH		QUANTITY OF CEMENT		
- 6.3/4"	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		<u></u>		85 sks.			
	2 1/0	6.4	#	4118			110 sk·.	
Sele	ectively perfor	ate & stim	ulate	the Pict	ured C	liffs	formation	
A BC	OP will be inst	alled afte:	r the	surface	casing	is se	t & cemented.	
111.1	subsequent work	k MITI De (	done -	through B	OP.			
The	NW/4 of Section	n 32 is dea	dicate	ed to thi	e wall			
			arca c	ed to thi	2 METT	· Car Branch		
					ا المعمود			
					$-\int_{\partial \mathcal{X}}$			
						E Comment	10377	
	ganc	collect.	_	7.1		an 83	, 1917 L COM 51. 3	
		tota cat	. C CE	real	<b>,</b>	$2C^{12}C_{G}$	r com	
	U .				1,0	IL Dia	οĭ. <sup>3</sup>	
IN ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If p	roposal is to deep	en or pl	ug back, give d	· .			
preventer program, if any	rm or despen directional	lly, give pertinent	data or	subsurface loc	cations and	measured	and true vertical depths. Give blowout	
24.	D 11 -							
SIGNED .	1. Glattery	TIT	LE _	Drilling	Engine	eer	5 To 12 100	
(This space for Federa	SLattory al or State office use)						DATE TIEST	
PERMIT NO.				APPROVAL DATE				
1bbbares se								
APPROVED BYCONDITIONS OF APPROVA		TIT	LE				DATE	

# NEW MEXICO O:L CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Superse les C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section Operator Lease Well No. Porthwest Pipeline Consoration Jicarilla 93 Unit Later Section Township Range Rio Arriba Actual Fratage Location of Well: 1450 1055 feet from the feet from the Ground Level Elev. Producing Formation Dedicated Acreages 7117 Pictured Cliffs Gavilan 160 ---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? If answer is "yes," type of consolidation 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 infernation contained herein is true and complete to the best of my knowledge and belief. Drilling Engineer Company Contract 93 32 I hereby certify that the well location shown on this plat was plotted from field 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. Date Surveyed March 21, 1977 Registered Professional Empineer Fred B. Certificate No. 1320 1650 1980 2310 2640

#### OPERATIONS PLAN

#### Jicarilla 93 #7

I. LOCATION: NW/4, Sec. 32, T27N, R3W

LEASE NUMBER: Contract 93

FILED: Gavilan Pictured Cliffs

ELEVATION: 7117 GR

Total Depth: 4118

II. GEOLOGY:

A. Formation Tops:

Ojo Alamo:

3388

Kirtland:

3573

Frutiland:

3719 Pictured Cliffs: 3875

B. Logging Program: I-ES and Density at T.D.

C. Coring Program: None

D. Testing Program: None

III. DRIL ING:

A. Anticipated starting date and duration of activities:

Sept. 30, 1977

B. BOP: Elind 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

Starloss:

CMC mud

3450

Viscosity: 25-30 sec/qt.

Weight:

8.9-9.0 #/gal.

Water Loss: 7-12 cc

Ph:

8.5-9.5

c) From 3450 to 4118

Starloss: CMC Hy-gel mud

Viscosity:

38-80 sec/qt.

Weight:

9.0-9.5 #/gal Water Loss: 6-8 cc

Ph:

8.5-9.5

IV. MATERIALS:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	Wt. & Grade	Depth Set
12 1/4"	120	8 5/8"	24# K-55	120
6 3/4"	4118	2 7/8"	.6.4# K-55	4118

### V. CEMENTING

- A. Surface Casing 8 5/8" Use 85 sks. Cl. "B" cmt. w/l/4# flocele/sk. & 3% calcium chloride (100% excess to circ.) WOC 12 hrs. Test surface csg. to 600 PSI for 30 min.
- B. Production Casing 2 7/8" -Use 60 sks. 65/35 poz w/10% gel & 1/4 cu. ft. fine gilsonite/cu. ft. slurry & tail in/50 sks. Cl. "B" cmt. w/2% calcium chloride. WOC 12 hrs. Run temp. survey after 12 hrs.

JPS/dd

NORTHWEST PIPELINE CORPORATION

MULTI- POINT SURFACE USE PLAN

for the JICARILLA 93

Well Number 7

- 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 Jicarilla Tapacito Water Hole located in the SE/4 17, T26N, R4W.
- 6. Source of Construction Materials: No additional materials will be needed.
- 7. Methods for Handling Waste Disposal: All garbage, debris, and trash will be burried 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 Pestoration of the Surface: Upon completion of drilling, the loc on will be cleaned, and leveled so that no cut or fill banks will be steeper than 3:.

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.

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.

Multi-Point Surface Use Plan Jicarilla 93 #7 Page 2

The area covered by the location and proposed access road is gently sloped with scattered brush and some grasses.

12. Operator's Representative: J.P. Slattery, P.O. Box 90, Farmington, N.M., 87401, Phone: 327-5351 Extension 62.

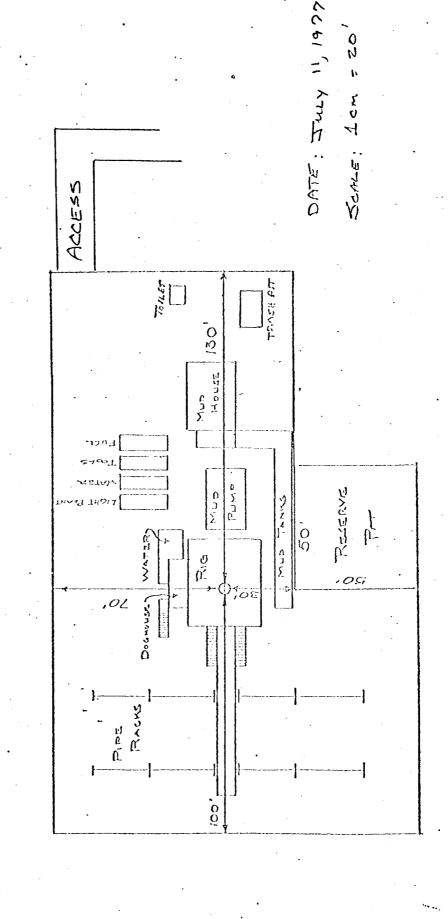
## 13. Certification:

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.

7-12-77 Date

Drilling Engineer

JPS/dd



CORPORATION あるころはつ 644 OUT LOCATION NORTH SEEST

B.

TICARILLA

