SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

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T. TPAGE	DECIM	MATER	2	4 200	CEDI			

		_				TO DESCRIPTION AND DESIRE NO.		
	SF 078917							
APPLICATION	6. IF INDIAN, ALLOTTEE OF TRIBE NAME							
la. TYPE OF WORK						7 FNT ACREMENTS		
	LL 🔼	DEEPEN		PLUG BAC	K ∐	7. UNIT AGREEMENT NAME		
D. TYPE OF WELL GA	S OTHER			INGLE MULTIP	re 🗀	San Juan 29-5 Unit		
WELL WI	-							
	Dinaline Comme					San Juan 29-5 Unit		
Northwest 3. Address of Operator								
DO Box O	O Farmington	Nov. Movico	97/	301		#87 10. FIELD AND POOL, OR WILDCAT		
LOCATION OF WELL (Re	O, Farmington,	in accordance wi	th any S	+∪⊥ State requirements.*)		Gobernador Pictured Cli		
At surface	11. SEC., T., B., M., OR BLK.							
At proposed prod. zone	0' FNL & 1830'					AND SURVEY OR AREA		
As	Above					SEC 25, T29N, R5W		
4. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	REST TOWN OR POS	T OFFIC	E*		12. COUNTY OR PARISH 13. STATE		
	st of Gobernado	r Camp				Rio Arriba N.M.		
15. DISTANCE FROM PROPO LOCATION TO NEAREST	•	_	16. No	O. OF ACRES IN LEASE		OF ACRES ASSIGNED CHIS WELL		
(Also to Dearest drig	. unit line, if any)	1040'	 	NA		160		
18. DISTANCE FROM PROPO TO NEAREST WELL, DE	RILLING, COMPLETED,		19. PI	ROPOSED DEPTH	20. ROTA	ARY OR CABLE TOOLS		
OR APPLIED FOR, ON THE	S LEASE, FT.	NA	<u> </u>	3652'	<u> </u>	Rotary		
21. ELEVATIONS (Show whe						22. APPROX. DATE WORK WILL START*		
6566' (June 15, 1978		
23.	P	PROPOSED CASI	NG ANI	D CEMENTING PROGRA	M			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот	SETTING DEPTH		QUANTITY OF CEMENT		
12-1/4"	8-5/8"	24#		150'		85 sks		
6-3/4"	2-7/8"	6.4#	 	T.D.		160 sks		
_								
0-1	·		. 1	n				
Selectively	y periorate and	stimulate	the	Pictured Cliffs	Form	ation.		
A ROD ++11	he installed a	fter the c	ırfaa	ce casing has be	.on *	a and		
				te casing has be				
BOP.	sapsequent	operation	~ W11	. De conducted	chitou	gu ene		
5 01 •						AN ROLL		
The $NW/4$ of	f Section 25 is	dedicated	to t	his well. Gas	is de	dicated.		
	*					1978		
						MAY 23 1978 OIL CON. COM.		
						WHI - COM.		
						OIL Com. 3		
						Le Dia.		
•	•							
						ductive zone and proposed new productive ed and true vertical depths. Give blowout		
oreventer program if any				Subsultace locations at		The rate received depends. Once browder.		
4.	111	()//						
SIGNED	Marone	elli III	TI.E	Sr. Drilling Er	ginee	C		
D.H. 'Ma	anoncelli							
(This space for Feder	ral or State office use)					•		
PERMIT NO				APPROVAL DATE		7		
APPROVED BY	AF TO ANY	ті	TLE			DATE		
CONDITIONS OF APPROV.	AL, IF ANY :					1.0		

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128. Effective 1-1-65

All distances must be from the outer boundaries of the Section

		All distances in	ast be from t	ne outer boundarie	s or the	e Section.			
Operator NODTULEST	PIPET THE COD	DOD ATTON	Lea		בן גואני	T.M.	Well No.		
NORTHWEST PIPELINE CORPORATION Unit Letter Section Township				AN JUAN 29-5 UNI		II County	87		
C	25 ·	29N		1 -	1	•	•		
		2711			i_	Rio Arriba			
Actual Footage Location of Well: 1040 feet from the North line and 1830 feet from the West line									
Ground Level Elev.	feet from the		ne cand Poo		teet fr	mom the West	line		
6566 Distance Cliffs Columnia Distance Of 160									
	1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.								
1. Outline in	e acreage dedica	ited to the subje	ect well r	by colored penc	211 Of 11	nachure marks on the	piat 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 tha	n one lease of d	ifferent ownersh	ip is dedi	cated to the we	ell, ha	we the interests of a	ll owners been consoli-		
	ommunitization, ı								
<u> </u>			_						
Yes	No If a	nswer is "yes;"	type of co	nsolidation	-				
If answer i	s "no," list the	owners and trac	t descripti	ions which have	e actu	ally been consolidate	d. (Use reverse side of		
this form if	necessary.)								
No allowab	le will be assign	ed to the well un	til all inte	erests have bee	en con	nsolidated (by commu	nitization, unitization,		
							pproved by the Commis-		
sion.	_			_					
					TZZ	771	CERTIFICATION		
		# 52 = 94		i	Y//	///I '	CERTIFICATION		
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.		040 BACK	_	1	Y //	/ / A	tify that the information con- n is true and complete to the		
		#		1	1//	/ / /	nowledge and belief.		
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1830'				Į.	Y//	//x LU.N.	Marorelli		
L		=		- ! !	1//	Name			
畫	1	=		1	1//	D.H. Marc	oncelli		
E				1	$\mathbb{K}//$	Position			
E 07.07001	, , , ,			1	1//	/ / /	ling Engineer		
SF 07891	'			i ·	Y//	Company	t Pipeline Corp.		
Ē	İ			1	Y//	Date	t Tiperine Corp.		
星	1			1	1//	5/16/78			
		க்கையாக		1	YZ		· · · · · · · · · · · · · · · · · · ·		
) 		25	1	Y/	///			
	1 1			. 1	1//	/ / I hereby ce	rtify that the well-location		
	1			1	Y/	shown on thi	s plat was plotted from field		
	!			į	Y/	notes of act	ual surveys made by me or		
				1	V/	under my su	pervision, and that the same		
	1		No.		V/	// 11	correct to the best of my		
	l .		zi.		V/	knowledge a	nd belief.		
<u> </u>	+			-1-1	1/				
	1				$\mathbb{V}/$	//			
	i i				V/	Date Surveyed	(100 mm)		
	1				<i>V/</i>	May 13.	1978 - AT . C.		
	1				//	Registered Pro and/or Land Si	dessional Engineer		
	i				1//	1/1/2	exercial		
	i	4534.2		ŀ		Fred B.	Terr Tree		
						Certificate No.	Ra, IR.		
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NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

For The San Juan 29-5 Unit

Well Number 87

- 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 run off and soil erosion. Drainage facilities may include ditches, water bars, culverts or any other 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. The pipeline will be constructed adjacent to the access road where possible.
- 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. Well Site Layout: See attached 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 seed Mixture #1.

All equipment above ground will be painted a non-glare, non-reflective, non-chalking color that simulates the natural color the site. For this well code number 959-34127, 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 San Juan 29-5 Unit #87 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: D.E. Richardson, P.O. Box 90 - Farmington, New Mexico 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.

5/16/78 Date

D.E. Richardson Drilling Engineer

DER/ch

OPERATIONS PLAN

San Juan 29-5 Unit #87

May 16, 1978

LOCATION: NW/4 SEC 25, T29N, R5W

LEASE NUMBER: SF 078917

FIELD:

Gobernador Pictured Cliffs

ELEVATION:

6566' GR

GEOLOGY: II.

Formation Tops:

2647 Ojo Alamo:

Total Depth: 3652'

Kirtland:

2887**'**

Fruitland:

3234

Pictured Cliffs:3502'

B. Logging Program: IES & GR-Density at T.D.

C. Coring Program: None

D. Testing Program: None

III. DRILLING:

Anticipated starting date and duration of activities: June 15, 1978 for 10 days.

BOP: Blind rams and pipe rams, 10", 900 series, double gate, rated at 3000 PSI.

Mud Program:

a) Spud Mud: Water, lime and gel.

Surface to 3000'

25-30 sec/qt. Viscosity: 8.9-9.0 #/gal.

Weight: Water Loss: 7-12 cc

Ph:

8.5-9.5

c) From 3000' to T.D.

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	Depth Set
12 1/4"	150	8 5/8"	24# K-55	150'
6 3/4"	3652	2 7/8"	6.4# J- 55	T.D.

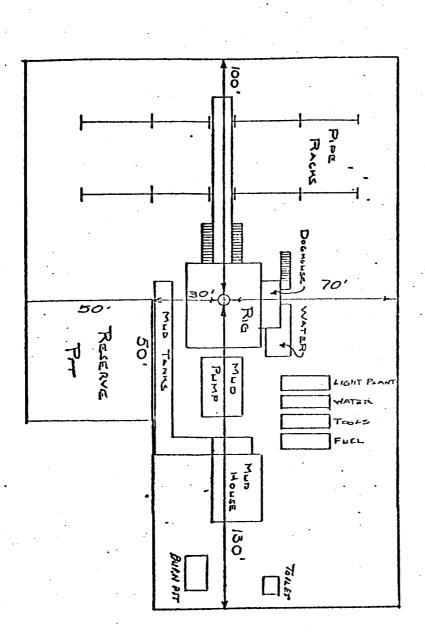
Operations Plan San Juan 29-5 Unit #87 Page 2

v. CEMENTING:

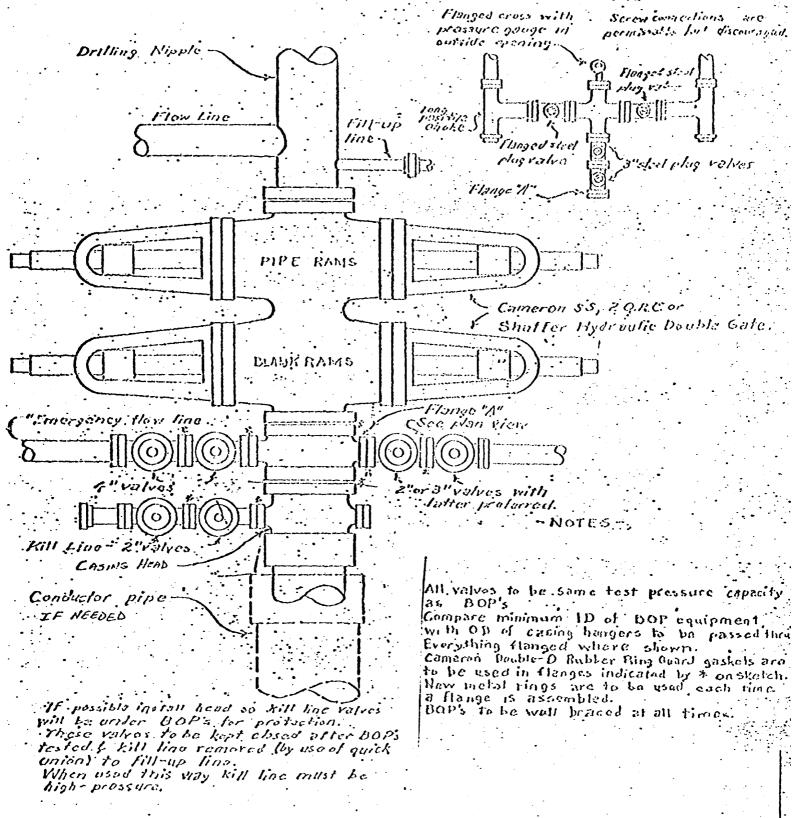
- A. Surface Casing 8 5/8" Use 85 sks. Class "B" cement with 1/4# flocele per sack and 3% calcium chloride (100% excess to circulate). WOC 12 hours. Test surface casing to 600 PSI for 30 minutes.
- B. Production Casing 2 7/8" Use 160 sacks 65/35 poz with 10% gel and 1/4 cu. ft. fine gilsonite per cu. ft. slurry and tail in with 50 sacks Class "B" cement with 2% calcium chloride. WOC 12 hours. Run temperature survey after 12 hours.

DHM/ch

NORTHWEST PIPELINE CORPORATION LOCATION LAYOUT SAN JUAN 29-5 UNIT #87







SINGLE PIPE RAM BLOWOUT PREVENTOR HOOKUP

