SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

	UNIT DEPARTMENT	ED STATES		NOR	reverse si	de)	30-037-21437 5. LEASE DESIGNATION AND SERIAL NO.		
		GICAL SURVI		NON.					
APPLICATION	N FOR PERMIT 1			N, OR P	LUG B	ACK	SF 078410 6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
1a. TYPE OF WORK	LL X	DEEPEN [7	DI I	UG BAC	'к 🗀	7. UNIT AGREEMENT NAME		
b. TYPE OF WELL		PLLILIN					San Juan 29-5 Unit		
well LJ w	ELL, X OTHER			NGLE	MULTIPI ZONE	.E []	8. FARM OR LEASE NAME		
2. NAME OF OPERATOR	Dinolino Compo	matian					San Juan 29-5 Unit 9. WELL NO.		
3. ADDRESS OF OPERATOR	Pipeline Corpo	ration					78		
P.O. Box	90 - Farmington	, New Mexi	oc .	87401			10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL (R At surface			h any S	tate requireme	ents.*)		Place o-Pictured Cliffs		
	790' FNL 8	1850' FEL		•			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zon As above	e						Car 6 TOON DELL		
	AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICE	2.*			Sec. 6, T29N, R5W 12. COUNTY OR PARISH 13. STATE		
							Rio Arriba New Mexico		
15. DISTANCE FROM PROPO LOCATION TO NEAREST	r		16. NO	. OF ACRES IN	LEASE	17. NO. TO T	OF ACRES ASSIGNED THIS WELL		
PROPERTY OR LEASE I (Also to nearest drig	g. unit line, if any)	790 '	10 10	NA oposed depth		10 NOW	20. ROTARY OR CABLE TOOLS		
18. DISTANCE FROM PROP TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED,	NA	19. FR	3791'		20. ROTA			
21. ELEVATIONS (Show who		1421	<u></u>	3771		<u> </u>	Rotary 22. APPROX. DATE WORK WILL START*		
6663 G	R						Sept. 15, 1977		
23.	F	ROPOSED CASH	NG AND	CEMENTIN	G PROGRA	M			
SIZE OF HOLE	SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH				1	QUANTITY OF CEMENT			
12 1/4"	8 5/8"	24# K−.	55 120 '			85 sks.			
6 3/4"	2 7/8"	6.4# K-		3791	1		250 sks.		
	•	•		•		•			
Sele	ctively perfora	te and sti	mulat	e the Pi	ctured	Cliff	s formation.		
A. D.O.	D and 11 to the state of	11-1 -6		c	•				
	P will be insta nted. All subs				• • • • • • • • • • • • • • • • • • • •				
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						Fill Str			
The	NE/4 of section	6 is dedi	cated	to this	011				
Gas	is dedicated.		-		igge bar) #13 ·			
				1	JUN	2219	3//		
				1	OIL C	ON. CO	OM. /		
					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	JIST. 3			
	n whohoden brocking If	nvonocal is to des	non or t	lug back olyo	data on	recont nuc	ductive zone and proposed new productive		
zone. If proposal is to	drill or deepen directions	dly, give pertinen	t data c	on subsurface l	locations ar	d measur	ed and true vertical depths. Give blowout		
preventer program, if an 24.	y.								
= 7.	1. Stattery			Drilling	Engine	eer	June 17 1979		
J.P.	Slattery	TI	rle				DATE		
(This space for Fede	eral or State office use)								
PERMIT NO.				APPROVAL DAT	E				
							DATE		
CONDITIONS OF APPROX	AL, IF ANY;	Tr	TLE			·	DATE		
IPC/ch				1+					
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*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator			Lease		Well No.	
Northwest Pipeline Corporation			San	Juan 29 - 5 (78	
Unit Letter	Section	Township	Rom	•	County	
В	6	29N		5W	Rio Arriba	
Actual Footage Loc		v	י טר	0	me ad.	
790		orth line on		U <u>f</u> ee	t from the East	line
Ground Level Elev.	Producing F		Pool	Dio	~	licated Acreage: 160,66.
6663	FIGURE	ed Cliffs		FICO- FICO	tured Cliffs	1 001722 Acres
1. Outline th	e acreage dedi	cated to the subject	well by co	olored pencil o	r hachure marks on the p	lat 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).						
		different ownership is unitization, force-poo	_	d to the well,	have the interests of all	owners been consoli-
Yes	☐ No If	answer is "yes;" type	of consol	idation		
If answer	is "no." list th	e owners and tract de	criptions	which have ac	ctually been consolidated	l. (Use reverse side of
	f necessary.)	- January Go				. ,555 550 5100 51
	-	med to the well until s	ll interes	ts have been o	consolidated (by commun	uitization unitization
		=			th interests, has been ap	
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	1				C	ERTIFICATION
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[l		&	i	I hereby certi	fy that the information con-
	. 1			1 3000	tained herein	is true and complete to the
	1		6	1850'	best of my kn	owledge and belief.
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			- -	-i	Name J.P.	Slattery
	BE. Sans	3		1		
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	I I			1		tify that the well location
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	i			ı		ervision, and that the same
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	i .		. !	1	Date Surveyed	
				1	March 19	
	ļ ,			1	Registered Prof and/or Land Su	essional Engineer
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	ŀ			ł	The state of	Kero,
					Fred B	Kerr Jr
	1	7-4	7		Certificate No.	
0 330 660	90 1320 1650	1980 2310 2640 20	00 150	1000	soo ol 3950 <u> </u>	

OPERATIONS PLAN

Well Name: San Juan 29-5 Unit #78

I. LOCATION: NW/4 NE/4 Sec. 6, T29N, R5W LEASE NUMBER: SF 078410

FIELD: Blanco - Pictured Cliffs ELEVATION: 6663' GR

II. GEOLOGY:

A. Formation Tops:

Ojo Alamo: 2756' Total Depth: 3791'

Kirtland: 2919' Fruitland: 3321' Pictured Cliffs: 3641'

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

C. Coring Program: None

D. Testing Program: None

III. DRILLING:

A. Anticipated starting date and duration of activities: Sept. 15, 1977

B. 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 3200'

Starloss: CMC mud

Viscosity: 25-30 sec/qt.

Weight: 8.9-9.0 #/gal.

Water Loss: 7-12 cc Ph: 8.5-9.5

c) From: 3200' To: 3791'

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"	3791 '	2 7/8"	6.4# K-55	3791 '

V. CEMENTING:

A. Surface Casing 8 5/8" - Use 85 sacks Class "B" cement with 1/4# flocele/sk and 3% calcium chloride (100% excess to circulate). WOC 12 hours. Test surface csg. to 600 PSI for 30 minutes.

Operations Plan San Juan 29-5 #78 Page 2

- V. Cementing con't.
 - B. Production Casing 2 7/8" Use 180 sacks 65/35 poz with 1/4 cu. ft. fine gilsonite/cu. ft. Slurry and tail in with 50 sacks of Class "B" cement with 2% calcium chloride. WOC 24 hours. Run temperature survey after 12 hours.

JPS/ch

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NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

for the San Juan 29-5 Unit

Well Number 78

- 1. Existing Raods: See attached topographic map. All existing raods used, shall be maintained in a serviceable condition at all times during the drilling operation.
- 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 San Juan 29-6 Unit Water Well located 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 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.
- 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-relfective, 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.

11. con't.

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.

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

13. Certification:

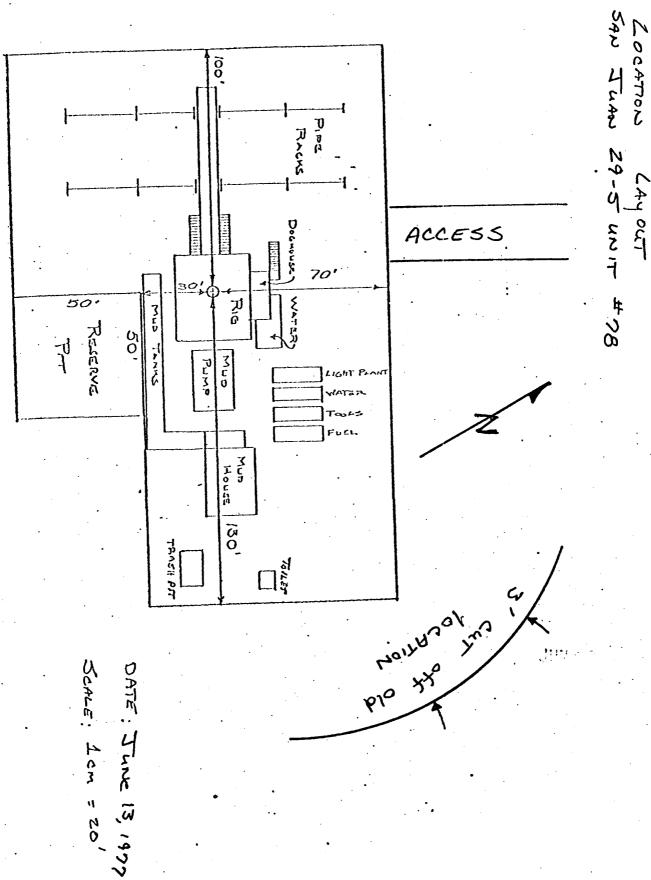
I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of by knowledge true and correct; and, that the work associated with the operations proposed herein will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

Tune 17 1977

Date

Drilling Engineer

JPS/ch



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CORPORATION

