APPROVED BY

CONDITIONS OF APPROVAL, IF ANY ;

## SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

(May 1963)	IINIT	ED STATES	(Other instruction reverse signature)		7	50 500	
	DEPARTMENT		ERIOR	ĺ		TION AND SERIAL NO.	
•	GEOLOG						
		A CV	SF 078343 6. IF INDIAN, ALLOTTEE OR TRIBE NAME				
APPLICATION	FOR PERMIT T	O DRILL, DEI	PEN, OR PLUG B	ACK			
a. TYPE OF WORK			7. UNIT AGREEME	NT NAME			
	DRILL M DEEPEN - PLUG BACK -					1 29-5 Unit	
b. TYPE OF WELL OIL GAS	s 🕝		SINGLE MULTIPE	LE 🗍	8. FARM OR LEAS	E NAME	
WELL WE  NAME OF OPERATOR	SLL X OTHER		San Juar	n 29-5 Unit			
	•• • • •		•		9. WELL NO.		
Northwest Pig 3. ADDRESS OF OPERATOR	<u>oeline Corporat</u>	10n			#84		
	Farmington, Ne	w Mexico 84	701		10. FIELD, AND PO	OL, OR WILDCAT	
4. LOCATION OF WELL (Re	port location clearly and	in accordance with a	ny State requirements.*)		Blanco	Pictured Cliffs	
	0' FNL & 1640'			· ·	11. SEC., T., R., M AND SURVEY	., OR BLK.	
		I 1111			AND SOUTE		
At proposed prod. zone	a Above		•		Sec. 5,	T29N, R5W	
	ND DIRECTION FROM NEAR	EST TOWN OR POST OF	FFICE*		12. COUNTY OR P.	ARISH 13. STATE	
T. Diolance in Time					Rio Arr	iba N.M.	
15. DISTANCE FROM PROPO	SED*	10	NO. OF ACRES IN LEASE		OF ACRES ASSIGNED		
LOCATION TO NEAREST PROPERTY OR LEASE L	INE, FT.	1540'	NA		161		
(Also to nearest drig 18. DISTANCE FROM PROPE	, unit line, if any)	19. PROPOSED DEPTH		20. ROTA	. ROTARY OR CABLE TOOLS		
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	RILLING, COMPLETED,	NA	NA 3745'			у	
21. ELEVATIONS (Show whe					22. APPROX. DA	TE WORK WILL START	
			•		Se	ptember 8, 1978	
6725	GK	PROPOSED CASING	AND CEMENTING PROGR.	AM		,	
					QUANTITY OF	CEMENT	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT			85 sks		
12-1/4"	8-5/8"	24#	150'	-	250 sks		
6-3/4"	6-3/4"	6.4#	3745	-	200 5	K5	
						•	
	1	1	•				
			the Mess Verde fo	rmation	n .		
Selective	ly perforate ar	id stimulate	the Mesa Verde fo	). IIICI C I O			
4 DOD	1 to installed	after the su	rface casing has	been ri	un and ceme	nted.	
A BUP WII	1 be installed	arter the su	nducted through it	he BOP	•		
All subse	quent operation	is will be co	nadeted through t				
The NUL	of Section 5 is	: dedicated t	o this well. Gas	is de	dicated.		
THE RW/4	or bection 5 is	, acarone -					
					7	<b>)</b>	
				•	. 7	7 W 1.2.26	
					<u>:</u> .	1978	
						2014	
						- 17.1VI.	
						( ) ( ) ( )	
	TO VIDOUGEED BUOCEAN TE	monosal is to deepe	n or plug back, give data on	present pre	ductive zone and	proposed new productive	
zone. If proposal is to	drill or deepen direction	give pertinent	data on subsurface locations	and measul	ed and true vertic	al depths. Give blowout	
preventer program, if a	7.			<u> </u>			
24.	5 50 . 1					5/15/78	
SIGNED	· Mach	udlew TITI.	E Drilling Engine	eer	DATE	01101	
<u>If. E.</u>	Richardsen leral or State office use)						
(This space for Fed	icial of place office and						
PERMIT NO.			APPROVAL DATE		T O F		

\*See Instructions On Reverse Side

U. S. GEDLOGICAL SURVEY DURANGO, COLO.

MAY 1 6 1978

# 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 UNIT			814			
Unit Let	ter	Section بم		Township		Romg		Cour.ty		
F Actual F	ootage Loca	5	ell:	29N		5	W	Rio	Arriba	
1540		feet from		North	line and	1640	fee	t from the	West	line
	øvel Elev.		oducing For		Time did	David to	Vild cot	t Holli the		Dedicated Acreage:
6725 Pictured Cliffs							lanco-Pic	tured (	Cliff	161 Acres
1. 0	outline the	acrea	ge dedica	ted to the	subject we	ll by col	ored pencil o	r hachure	e marks on th	e plat below.
				dedicated	to the well	, outline	each and ide	ntify the	ownership th	ereof (both as to working
11	nterest an	u royan	у).							
3. If	more tha	n one le	ease of d	ifferent ov	vnership is o	ledicated	to the well,	have the	interests of	all owners been consoli-
da	ated by co	ommunit	ization, ι	ınitization	, force-pooli	ng. etc?		•		
	V) v	NT	T.C			<b>.</b> 12	3	Unitiza	ation	•
. L	X Yes	☐ No	II a	nswer is	yes," type o	I consoll	dation	UIIICIZE	aczon .	
If	answer i	s "no,"	list the	owners an	d tract desc	riptions v	vhich have ac	tually be	een consolida	ted. (Use reverse side of
	nis form if			<del> </del>		<u>.</u>		<del></del>		
			_						•	nunitization, unitization,
	•	ing, or c	therwise)	or until a	non-standar	l unit, el	iminating suc	h interes	ts, has been	approved by the Commis-
	ion.									
<b>E</b>	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	munnii	######################################		<u></u>					CERTIFICATION
<b>E</b>		!				İ		• •		•
#		. !	.			İ	•		1	ertify that the information con-
畫		. !	210			1	•			ein is true and complete to the
.≣			53						Best of my	knowledge and belief.
<b>1</b>		i							1/1.8.	Lichardson
<b>L</b> _		i			<b>L</b>		 		Name	•
<b></b>	1640'								D.E. Ri	chardson
							,			g Engineer
#									Company	00
#	SF 0783	43							Northwe	st Pipeline Corp.
1									Date	
主		1		, E	E		I		5/15/78	·
	<del>                                     </del>	#1314111431 1	!! <b>!!!!</b> !!!!!!!!		5		<u></u>			
		i					l I		I hereby	certify that the well location
		i							shown on	this plat was plotted from field
		!			٠		i I		l I	actual surveys made by me or
		; 1					•		1 1	supervision, and that the same
		1		;					1	nd correct to the best of my and belief.
L		· — + ·								
		1					1			
		i							Date Surveye	ed name
									1978	
		ļ					j 3 /		Registered F and/or Land	Professional Engineer
		i ì								10 A A A A A A A A A A A A A A A A A A A
		l I				See.			Fred	B. Kerr Jr.
L									Cantificant .	10 - 13 CELL VI
0 330	660	0 1320	1650 19	1 30 2310 26	40 2000	1500	1000 5	00 c	3950	Pag. M. Maria

#### OPERATIONS PLAN

Total Depth:

San Juan 29-5 Unit #84

May 15, 1978

NW/4 Sec. 5, T29N, R5W LOCATION: I.

LEASE NUMBER: SF 078343

Rio Arriba County, N.M.

Blanco Pictured Cliff FIELD:

**ELEVATION:** 

6725' GL

GEOLOGY: II.

Formation Tops:

2719

3745

Ojo Alamo: Kirtland: Fruitland:

28501

3301'

Pictured Cliffs: 3595'

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

C. Coring Program: None

D. Testing Program: None

DRILLING:

Anticipated starting date and duration of activities:

September 8, 1978 1 week

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.

2700 b) Surface to

> CMC mud Starloss:

Viscosity: 25-30 sec/qt.

Weight:

8.9-9.0 #/gal.

Water Loss: 7-12 cc

Ph:

8.5-9.5

c) From 2700' to 3745'

CMC Hy-gel mud Starloss:

Viscosity:

38-80 sec/qt.

Weight:

Water Loss: 6-8 cc

9.0-9.5 #/gal.

Ph:

8.5-9.5

IV. MATERIALS:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size		Grade	Depth Set
12 1/4"	150	8 5/8"	. 24#	K-55	150 <b>'</b>
6 3/4"	150' -3745 <b>'</b>	2 7/8"	6.4#	K-55	3745 <sup>t</sup>

Operations Plan San Juan 29-5 Unit #84 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 250 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 hours. Run temperature survey after 12 hours.

DER/ch

NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

For The San Juan 29-5 Unit

Well Number 84

- 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.
- 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.
- 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 #84 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.

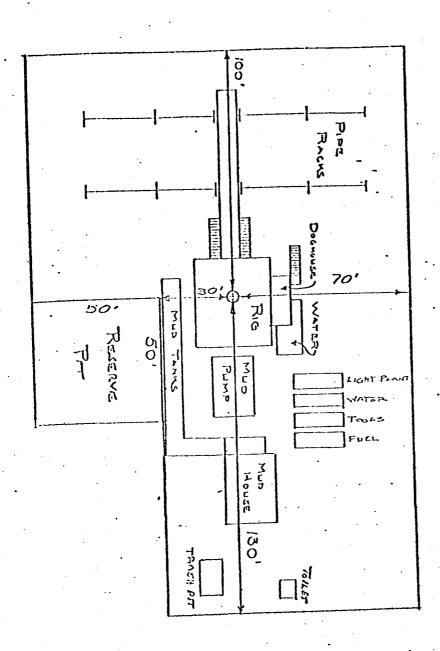
## 13. Certification:

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.

5/15/78 Date

D.E. Richardson Drilling Engineer

DER/ch



DATE: 05-12-78

SCALE: 1 cm = 20'

