SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

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reverse side)	_30	039	-21	79

	GEOLO	GICAL SURVEY			NM 012698	
APPLICATION	N FOR PERMIT	TO DRILL, DE	EPEN, OR PL	UG BACK	6. IF INDIAN, ALLOTTEE OR	TRIBE NAME
la. TYPE OF WORK	LL 🛚	DEEPEN [PLU	G BACK 🗌	7. UNIT AGREEMENT NAME	
b. TYPE OF WELL OIL GA	AS X OTHER	·	SINGLE ZONE	MULTIPLE ZONE	San Juan 29-6 8. FARM OR LEASE NAME	<u>Unit</u>
2. NAME OF OPERATOR		_		•	San Juan 29-6	Unit
Northwest P 3. ADDRESS OF OPERATOR	ipeline Corpor	ation			#111	
P.O. Box 90	. Farmington,	New Mexico 8	37401		10. FIELD AND POOL, OR W	ILDCAT
_ At surface			any State requirement	s.*)	Blanco - Pictu	red Clif
1150	' FNL & 1730'	FWL			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. zon	_				SEC 1, T29N, F	6W
AS A	bove	AREST TOWN OR POST	OFFICE*		12. COUNTY OR PARISH 13	STATE
					Rio Arriba	N.M.
15. DISTANCE FROM PROPO LOCATION TO NEAREST	r	ļ ⁻	6. NO. OF ACRES IN L		OF ACRES ASSIGNED THIS WELL	
PROPERTY OR LEASE L (Also to nearest drig	g. unit line, if any)	1150'	NA 9. PROPOSED DEPTH	90 por	159.49	
18. DISTANCE FROM PROP TO NEAREST WELL, DO OR APPLIED FOR, ON THE	RILLING, COMPLETED,	NA I	3770¹	20. 101	Rotary	
21. ELEVATIONS (Show who		1	3770		22. APPROX. DATE WORK	WILL START*
6636' G	R				9/1/78	
23.		PROPOSED CASING	AND CEMENTING	PROGRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	T SETTING DE	РТН	QUANTITY OF CEMENT	
12-1/4"	8-5/8"	24#	150	1	85_sks	
6-3/4"	2-7/8"	6.4#	3770	•	250 sks	
Selectivel	y perforate an	d stimulate t	he Mesa Verd	e formation	1.	
	be installed uent operation				nn and cemented.	
The NW/4 o	of Section 1 is	dedicated to	this well.	Gas is ded	licated.	San Barrell
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•						45 A
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						*
ž.					The state of the s	- Andrew
IN ABOVE SPACE DESCRIBIZED. ZONE. If proposal is to preventer program, if an	drill or deepen direction	proposal is to deeper ally, give pertinent of	n or plug back, give d lata on subsurface loc	ata on present present present ations and measur	oductive zone and proposed n red and true vertical depths.	ew productiv Give blowou
24.						
SIGNED DE R	Cichardson .	redongir	E Drilling	Engineer	DATE5/11,	′78
(This space for Fede	eral or State office use)					
PERMIT NO.			APPROVAL DATE	fř) FREIWEI	<u></u>
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*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY DURANGO, COLO.

MAY 1 5 1978

NEW MEXICO OIL CONSERVATION COMMISSION Form C-102 Supersedes C-128 WELL LOCATION AND ACREAGE DEDICATION PLAT Effective 1-1-65 All distances must be from the outer boundaries of the Section. Well No. Lease Operator 111 PIPELINE CORPORATION San JUAN 29-6 Unit NORTHWEST Unit Letter Range 29N Rio Arriba C Actual Footage Location of Well: North feet from the Dedicated Acreage: Producing Formation Ground Level Elev. 159.49 Acres 6636 Pictured Cliffs 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? Unitization If answer is "yes," type of consolidation __ X Yes No 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 information contained herein is true and complete to the ny knowledge and belief. 17301 D.E. Richardson Drilling Engineer NM 012698 Northwest Pipeline Corp. 5/12/78 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

May 9, 1978 / Registered/Professional Engineer

Fred B.

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660

330

OPERATIONS PLAN

San Juan 29-6 Unit #111

5/11/78

I. LOCATION: NW/4 SEC 1, T29N, R6W

LEASE NUMBER:

NM 012698

Rio Arriba County, New Mexico Blanco Pictured Cliffs FIELD:

ELEVATION:

6636' GL

GEOLOGY: II.

A. Formation Tops:

Ojo Alamo:

3770' 2858**'** Total Depth:

Kirtland: Fruitland: 2985**'**

3081'

Pictured Cliffs: 3600'

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

C. Coring Program: None

D. Testing Program: None

III. DRILLING:

Anticipated starting date and duration of activities: l week

September 1, 1978

Blind rams and pipe rams, 10', 900 series, double gate, rated at BOP: В.

3000 PSI.

C. Mud Program:

Spud Mud: Water, lime and gel.

Surface to 2800'

Starloss: CMC mud

25-30 sec/qt. Viscosity:

8.9-9.0 #/gal. Weight:

Water Loss: 7-12 cc

Ph:

8.5-9.5

9.0-9.5 #/gal.

c) From 2800' to 3770'

CMC Hy-gel mud Starloss:

Viscosity: 38-80 sec/qt.

Weight:

Water Loss: Ph: 8.5-9.5

IV. MATERIALS:

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 14 11	150' _3770''	27/9"	6 1.4 K-55	3770 *

Operations Plan San Juan 29-6 #111 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/aa

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NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

for the San Juan 29-6 Unit

Well Number 111

- 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.
- 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 29-6 Unit #111 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.

5/12/78 Date

D.E. Richardson Drilling Engineer

DER/ch

DATE: 05 1278

