### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

UNITED	STATE	ES	
DEPARTMENT OF	THE	INTERIO	)R

GEOLOGICAL SURVEY

<u>_</u>	20 -	039-	2/	42	4
5.	LEASE	DESIGNATION	AND SERI	AL NO.	_

						NM 012698
APPLICATION	I FOR PERMIT T	O DRILL, D	DEEPE	N, OR PLUG B	ACK	6. IF INDIAN, ALLOTTES OF THESE NAME
DRILL X DEEPEN PLUG BACK					7. UNIT AGREEMENT NAME.	
b. TYPE OF WELL	WELL				San Juan 29-6 Unit	
OHL GAS WELL X OTHER SINGLE ZONE ZONE					8. FARM OR LEASE NAME	
. NAME OF OPERATOR						San Juan 29-6 Unit
Northwest P:	ipeline Corpora	ation				9. WELL NO.
. ADDRESS OF OPERATOR						23A
P.O. Box 90	, Farmington, N	New Mexico	8740	)1	į	10. FIELD AND POOL, OR WILDCAT
	port location clearly and	in accordance wit	h any S	tate requirements.*)		Blanco Mesa Verde
At surface 1790	0' FNL & 885' H	?WL		ı		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zone	ì					AND SURVEY OR AREA
it proposed prominent	As above	2		·		Sec. 12. T29N. R6W
4. DISTANCE IN MILES A	ND DIRECTION FROM NEAD	REST TOWN OR POS	T OFFICE	•		Sec. 12, T29N, R6W 12. COUNTY OR PARISH 13. STATE
						Rio Arriba N.M.
5. DISTANCE FROM PROPOS			16. NO	OF ACRES IN LEASE		OF ACRES ASSIGNED
PROPERTY OR LEASE LI	INE, FT.	885 <b>'</b>	i	NA	W/	320
8. DISTANCE FROM PROPO	SED LOCATION*		19. PR	OPOSED DEPTH	20. RETAI	RY OR CABLE TOOLS
TO NEAREST WELL, DR OR APPLIED FOR, ON THIS		ĪΑ		5818 <b>'</b>	/ /	Rotary
1. ELEVATIONS (Show whe			<u>'</u>		·	22. APPROX. DATE WORK WILL START*
•		506' GR				August 1, 1977
3.		PROPOSED CASH	NG ANI	CEMENTING PROGRA	м	
arty on Hotel	SIZE OF CASING	WEIGHT PER F		SETTING DEPTH	<u> </u>	QUANTITY OF CEMENT
SIZE OF HOLE					ļ	
12 1/4"	9 5/8"	132.3_		1001		1/5 6/6
	11			200'	<b> </b>	125 sks.
8 3/4"	7"	20		3801'		150 sks.
8 3/4" 6 1/4"	7" 4 1/2"	20 10.5	the M		ation.	
8 3/4" 6 1/4"  Selectively A BOP will 1 All subseque	7" 4 1/2"  perforate and be installed af ent operations section 12 is o	20 10.5 stimulate fter the su will be co	rface nduct	3801' 3681' - T.D.  Mesa Verde formate casing has been through the second secon	en run	150 sks. 210 sks.
Selectively  A BOP will I All subseque  The W/2 of s  Gas is dedic  IN ABOVE SPACE DESCRIBE ZONE. If proposal is to coreventer program, if any  24.  SIGNED J.P.  (This space for Federal	perforate and be installed af ent operations section 12 is o cated.  PROFOSED PROGRAM: If drill or deepen direction y.  Slattery— ral or State office use)	20 10.5  stimulate  ter the su will be co dedicated to	rface nduct o thi	3801' 3681' - T.D.  desa Verde formate casing has been dead through the seed through	en run	150 sks. 210 sks.  and cemented.  1 1577  fuctive zone and proposed new productive
Selectively  A BOP will   All subseque  The W/2 of s  Gas is dedic  Oreventer program, if any  (This space for Feder  PERMIT NO.	perforate and be installed af ent operations section 12 is o cated.  PROPOSED PROGRAM: If drill or deepen direction y.  Stattery ral or State office use)	20 10.5  stimulate  ter the su will be co  ledicated t	rface nduct o thi	3801' 3681' - T.D.  Mesa Verde formate casing has been through the casing has well.  Only on subsurface locations and consultance locations and case of the case o	resent production measure	and cemented.  1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8 3/4" 6 1/4"  Selectively  A BOP will I All subseque  The W/2 of s  Gas is dedic  IN ABOVE SPACE DESCRIBE  SOME. If proposal is to coreventer program, if any  24.  SIGNED J.P.  (This space for Federal	7" 4 1/2"  perforate and be installed af ent operations section 12 is o cated.  prorosed program: If drill or deepen direction y.  Stattery ral or State office use)	20 10.5  stimulate  ter the su will be co  ledicated t	rface nduct o thi	3801' 3681' - T.D.  desa Verde formate casing has been dead through the seed through	resent production measure	and cemented.  1 1377  ductive zone and proposed new productly d and true vertical depths. Give bloword.  DATE

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\*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 bounds:	ries of the Section.		
Operator			Lease			Well No.
Forthwest	Pineline Corr	conation	San Juan 2	99-6 Unit		23A -
Unit Letter	Section	Township	Range	County	······································	
E	12	29N	6W	1 -	Arriba	
Actual Footage Loca		2/10		I ILLO	ATTIOA	
1790		and t	885		7.7 <del></del>	
Ground Level Elev:	feet from the MC	notion line and	<del></del>	feet from the	West	line
· .	1		Pool Blanco	,	l	Dedicated Acreages
<u>6506</u>	Mesa Ve	erae	Branco			320 Acres
2. If more th interest ar	an one lease is ad royalty).		l, outline each an	d identify the c	ownership t	hereof (both as to working all owners been consoli-
dated by c Yes If answer this form i	ommunitization, to No If a is "no," list the f necessary.)	nswer is "yes," type o	ing. etc? of consolidation _ criptions which ha	ive actually bee	en consolid	ated. (Use reverse side of
forced-pool	ling, or otherwise)	or until a non-standar	d unit, eliminatin	g such interest	s, has been	approved by the Commis-
						CERTIFICATION
	51 023A				Name  Name  No. H.  Position  Sr.  Company  Nort	certify that the information con- reln is true and complete to the y knowledge and belief.  Maroncelli  Drilling Engineer  hwest Pipeline Corp.
MM Section 1999	012698		2		I hereby shown on notes of under my Is true o	certify that the well location this plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my e and belief.
	1"=1320"	1:550.71		3	April Registered	17, 1077 Professional Engineer d Surveyor  6. Kerr Jr.

## OPERATIONS PLAN

San Juan 29-6 Unit #23A

May 25, 1977

I. LOCATION: SW/4 NW/4 Sec. 12, T29N, R6W LEASE NUMBER: NM 012698

FIELD: Blanco Mesa Verde <u>ELEVATION</u>: 6506' GR

II. GEOLOGY:

A. Formation Tops:

Cliff House: 2489' 5246**'** Ojo Alamo: Menefee: 53361 Kirtland: 2541 Point Lookout: 5618' Fruitland: 3101 Total Depth: 5818' Pictured Cliffs: 3451' 36011 Lewis:

B. Logging Program: Gamma Ray-Neutron at T.D.

C. Coring Program: None

D. Natural Gauges: Gauge at last connection above and at total depth.

Gauge any noticeable increases in gas flow at depth

other than those noted above.

III. DRILLING:

A. Anticipated starting date and duration of activities: August 1, 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 3601'

Viscosity: 32-38 sec/qt. Weight: 8.8-9.2 #/gal.

Water Loss: 8-20 cc Ph: 8.5-9.5

c) From 3601' to 3801'

Viscosity: 36-45 sec/qt. Weight: 8.5-9.5 #/gal.

Water Loss: 8-20 cc Ph: 8.5-9.5

d) From 3801' to total depth with gas.

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#### IV. MATERIALS:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	Wt. & Grade	Depth Set
12 1/4"	200	9 5/8"	32.3# H-40	200'
8 3/4"	3801'	7"	20# K-55	3801
6 1/4"	3801'-T.D.	4 1/2"	10.5# K-55	3681'-T.D.

Operations Plan San Juan 29-6 Unit #23A Page 2

- B. Float Equipment:
  - a) Surface casing 9 5/8" B & W reg. pattern shoe
  - b) Intermediate casing 7" Dowell guide shoe (Code #50101-070) and self fill insert float collar (Code #53003-070). Seven (7) centralizers (Code #56011-070) spaced every other joint above the shoe. Place float collar one joint above shoe.
  - c) Liner 4 1/2" Larkin geyser shoe (Fig. 222) and Larkin flapper type float collar (Fig. 404). Brown liner hanger with neopreme pack off.
- C. Tubing Program: 5700' of 2 3/8", 4.7#, EUE, K-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom.
- D. Wellhead Equipment: Gray wellhead. Gray representative to set slips and make cut off.

#### V. CEMENTING:

- A. Surface Casing 9 5/8" Use 125 sks. Cl. "B" w/1/4# gel flake/sk. & 3% Ca Cl. (100% excess to circ.) WOC 12 hrs. Test surface csg. to 600 PSI for 30 min.
- B. Intermediate Casing 7" Use 100 sks. Cl. "B" 65/35 poz w/12% gel & 15.52 gal. water/sk. Tail in w/50 sks. Cl. "B" w/2% Ca Cl. (65% excess to cover Ojo Alamo). WOC 12 hrs. Run temp. survey after 8 hrs. Test csg. to 600 PSI.
- C. Production Liner 4 1/2" Use 210 sks. Cl. "B" w/4% gel & 1/4 cu. ft. of fine Gilsonite/sk. Precede cmt. w/20 bbls. water mixed w/3 sks. gel. (70% excess to circ. liner) Set liner pack off & reverse out excess cmt. Run 6 1/4" bit to top of liner & pressure test. (test 12 hrs. after plug is down) Lay down DP & run 3 7/8" bit on 2 3/8" EUE tubing to clean out liner. Perforate 18 hrs. after plug is down.

NORTHWEST PIPELINE CORPORATION

MULTI-POINT SURFACE USE PLAN

for the San Juan 29-6 Unit

Well Number 23A

- 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 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 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 location layout sheet. There will be a drainage ditch above the cut slope.
- 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 drillsite 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.

Multi-Point Surface Use Plan San Juan 29-6 Unit #23A Page 2

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.

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.

5-3/-11 Date

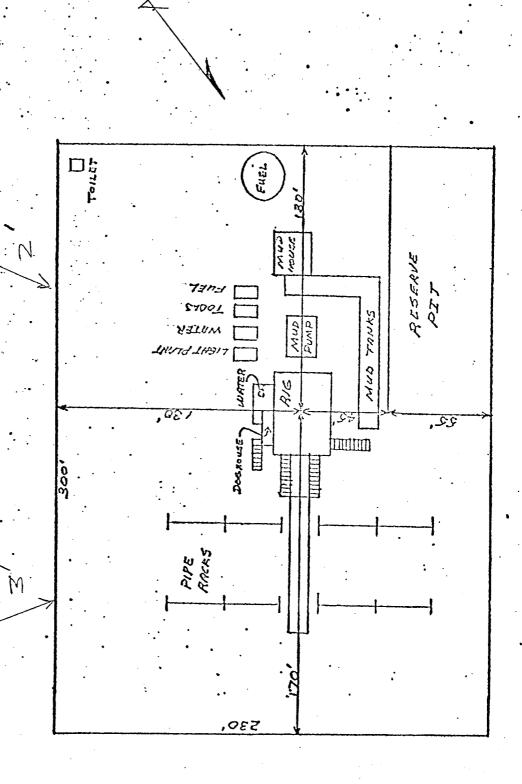
J.P. Slattery
Drilling Engineer

JPS/ks

NORTHWEST PREUNE CORPORATION

LOCATION LAYOUT

545 JEAN 29-6 ENT # 23.A



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