#### SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

UNITED STATES DEPARTMENT OF THE INTERIOR

1	₩.	LESSE	DESI	GNAT	103	AND	SERIAL	NO.	
-			NM	013	233	35			

GEOLOGICAL SURVEY							NM 012335		
APPLICATION	I FOR PERMIT T	O DRILL,	DEEPE	N, OR	PLUG BA	4CK	6. IF INDIAN, ALLOTTER	OR TRIBE NAME	
Ia. TYPE OF WORK	LL 🏻	DEEPEN			LUG BAC		7. UNIT AGREEMENT N San Juan 30-		
OIL WELL G	S STHER		SIN ZON		MULTIPL ZONE	° 🗌	8. FARM OR LEASE NA	d E	
2. NAME OF OPERATOR							San Juan 30-	-5 Unit	
Northwes	t Pipeline Corp	oration					9. WELL NO.		
3. ADDRESS OF OPERATOR							14 A		
P.O. Box	90, Farmington	, New Mexi	co 874	01			10. FIELD AND POOL, C	R WILDCAT	
4. LOCATION OF WELL (R	eport location clearly and	in accordance wi	th any St	ate requiren	nents.*)		Blanco Mesa Verde		
1120	' FSL & 1580' F	EL					11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zon	As Above						Sec 31, T30N		
14. DISTANCE IN MILES	AND DIRECTION FROM NEAF	EST TOWN OR POS	T OFFICE				12. COUNTY OR PARISH		
	s South						Rio Arriba	New Mexico	
15. DISTANCE FROM PROPO- LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest dr);	INE, FT.	1120'	16. No.	NA	IN LEASE		F ACRES ASSIGNED HS WELL 320		
18. DISTANCE FROM PROP TO NEAREST WELL, D			19. Pro	POSED DEPT			RY OR CABLE TOOLS		
OR APPLIED FOR, ON TH		2980'		6200	<u>'</u>		Rotary		
21. ELEVATIONS (Show who	ther DF, RT, GR, etc.)						October 15,		
23.	P	ROPOSED CASI	NG AND	CEMENTI	NG PROGRA	M			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	тоот	SETTING	DEPTH		QUANTITY OF CEME:	YT.	
12 3/4"	9 5/8''	32.3#		200		125	sks	,	
8 3/4"	7''	20.0#		3500		150	) sks		
6 1/4"	4 1/2"	10.5#	ļ	3300-6	200	375	sks		
	•		•		·				

It is proposed to drill this well to total depth using a water base mud & gas. In the event Hydrocarbons are encountered on a commercial basis,  $4\ 1/2$ " production casing will be set and cemented, and the zone of interest will be perforated and stimulated. A B.O.P. will be installed on the surface casing head and all subsequent operations will be conducted through the B.O.P.'s. B.O.P.'s will be tested daily.

For additional pertinent information, please refer to the attachments. The E/2 of Section 30 is dedicated. Gas is dedicated.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout

reventer program, if any.	7 46 C C
4.	••
SIGNED William William TITLE Drilling Engineer	DATE 9/25/79
PERMIT NO APPROVAL DATE	
APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY :	DATE

SEP 2 8 1079

of Frak

2

\*See Instructions On Reverse Side

# STATE OF NEW MEXICO

# OIL CONSERVATION DIVISION

P. O. BOX 2088

ENERGY MO MINERALS DEFARTMENT SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

All distances must be from the outer houndaries of the Section

								1
Operator			Leas		20 C T	የአታ <i>ጉ (</i> ጠ		Well No.
NORTHWEST	PIPELINE CORS	· · · · · · · · · · · · · · · · · · ·	SAN JUAN 30-5 UNIT				11 <sub>4</sub> A	
Unit Letter	Section	Township		Range	1	County	,	
0	31	30N		5W		KIO	Arriba	
Actual Footage Loc	ation of Well:							1
1120	feet from the Sc	outh	line and	L580	feet	from the	East	line
Ground Level Elev.	Producing For	mation	Pool					Dedicated Acreage:
6672	Mesa Ve	rde		Blanc	20		_	320 - Acres
2. If more th interest ar	id royalty).	dedicated to	the well, ou	tline each	and iden	tify the	ownership th	ne plat below.  hereof (both as to working  all owners been consoli-
dated by c Yes  If answer this form i No allowat	ommunitization, to No If a sis "no," list the f necessary.)	owners and tra	ce-pooling. e  ' type of cor  act descripti  until all inte	etc?  nsolidation  ons which  erests have	have act	nally be	en consolida	munitization, unitization, approved by the Commis-
		Sec.				7	Name Willia Fosition Drilli Company North	certify that the information con- rein is true and complete to the y knowledge and belief.  The Johnson  The
	                 		NM 012335	- + <u>1</u>	580 <b>'</b>		shown orders of under my is true: knowledge  Date Survey  Septie  Registered and ar Later of the control of the	mber 23, 1979 Professional Engineer d curveyor  Kerr Ir
		20 2322	2000	1500	Τ ,	00 0	Certificate	AF KILL
0 330 660	90 1320 1650 19	80 2310 2640	2000	1500 10	00 50	٬۰۰۰ (	·   _ / · / -	

NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

for the

San Juan 30-5 Unit #14A

- 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 Pine River.
- 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.  $f/\dots$
- 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 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 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.

All liquids from the line will be contained at the site unless otherwise specified by the surface agency's representative.

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: W.J. Billman - P.O. Box 90 - Farmington, New Mexico 87401. Phone: 327-5351 Extension #117.

# 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.

9-24-79

Date

W.J. Billman

Drilling Engineer

WJB/djb

#### OPERATIONS PLAN

San Juan 30-5 Unit #14A

ELEVATION: 6672**'** I. LOCATION: SE/4 Sec 3, T30N, R5W

Lease Number: NM: 012335 FIELD: Blanco. Mesa Verde

### II. GEOLOGY:

A. Formation Tops:

I OTHIALION TOPO			
Oio Alamo:	2890 <b>'</b>	Cliff House:	5675 <b>'</b>
Kirtland:	3090'	Menefee:	5730'
•••	3500 <b>'</b>	Point Lookout:	6010'
Fruitland:	5500		6200'
Pictured Cliffs:	3810 <b>'</b>	Total Depth:	0200
Lewis:	3950 <b>'</b>		

B. Logging Program: Gamma Ray Induction & Density at T.D.

None anticipated C. Coring Program:

Gauge at last connection above 5730', 6010' and at total D. Natural Gauges:

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: Oct 30, 1979 - 2 weeks

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 3950'

b) Surface to

Viscosity: 32-38 sec/qt. 8.8-9.2 #/gal. Weight: Water Loss: 8-20 cc 8.5-9.5 Ph:

c) From 3950 to 4150

Viscosity: 36-45 sec/ct. Weight: 8.5-9.5 #/gal. Water Loss: 8-20 cc

8.5-9.5

d) From 4150 to total depth with gas.

#### 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"	4150'	7''	20# K-55	4150'
6-1/4"	2050'	4-1/2"	10.5# K-55	3950' - 6200'

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.

#### Page 2

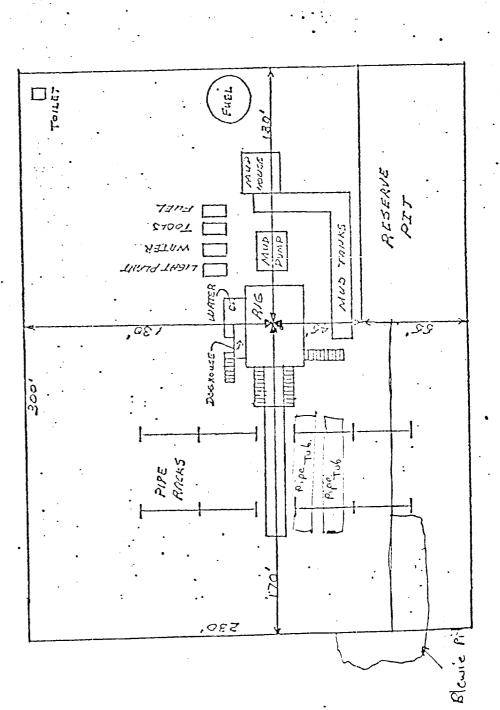
- B. Float Equipment cont.
  - c) Liner 4-1/2" Larkin geyser shoe (Fig. 222) and Larkin flapper type float collar (Fig. 404). Brown liner hanger with neopreme pack off.
- C. Tubing Program: 6150' of 2-3/8", 4.7#, EUE, K-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom.
- D. Well Head Equipment: WKM well head. WKM representative to set slips and make cut off.

#### V. CEMENTING:

- A. Surface Casing 9-5/8" Use 125 sacks of Class "B" with 1/4# gel flake per sack and 3% CaCl (100% excess to circulate). WOC 12 hours. Test surface casing to 600 PSI for 30 minutes.
- B. Intermediate Casing 7" Use 150 sacks Class "B" 65/35 poz with 12% gel and 15.52 gallons water per sack. Tail in with 50 sacks Class "B" with 2% CaCl (65% excess to cover 0jo Alamo). WOC 12 hours. Run temperature survey after 8 hours. Test casing to 600 PSI.
- C. Production Liner 4-1/2" Use 220 sacks Class "B" with 4% gel and 1/4 cu. ft. of fine gilsonite per sack. Preced cement with 20 barrels water mixed with 3 sacks gel (70% excess to circulate liner). Set liner pack off and reverse out excess cement. Run 6-1/4" bit to top of liner and pressure test (test 12 hours after plug is down). Lay down DP and run 3-7/8" bit on 2-3/8" EUE tubing to clean out liner. Perforate 18 hours after plug is down.

WJB/djb 9/24/79 Ches. You be

LOCATION LAYOUT



DATE: SCALE: 2 CH = 6

