# SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425. N ----

UNITED	STATI	ES
<b>DEPARTMENT O</b>	F THE	INTERIOR

**GEOLOGICAL SURVEY** 

<u>_</u>		046				7
5.	LEASE !	DESIGN	ATTON	AND	SERIAL	NO.
	SF	-078	649			
0						

APPLICATIO	n for permit	TO DRILL, I	DEEP	EN, OR PLUG E	ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1a. TYPE OF WORK	u i 🔽	DEEDEN		DI LIC DA		7. UNIT AGREEMENT N	MP
b. TYPE OF WELL		DEEPEN		PLUG BA		San Jush 32-	
OIL C	AS X			INGLE MULTIP	LE [	8. FARM OR LEASE NAM	CIE.
WELL	VELL OTHER	<del></del>	z	ONE ZONE		San Juan 32-	
Northwest	Pipeline Corpo	ration				9. WELL NO.	
3. ADDRESS OF OPERATOR						57	
P.O. Box 9	0 - Farmington	. New Mexico	8	7401		10. FIELD AND POOL, O	P WITDCAM
4. LOCATION OF WELL (F	Report location clearly a			State requirements.*)		Basin Dakota	
At curfuce	FSL & 800' FE		•	•		11. SEC., T., R., M., OR B	T.K
At proposed prod. zo:						AND SURVEY OR AR	EA
as ab					* .	Sec. 17, T32	2N, R7W
4. DISTANCE IN MILES	AND DIRECTION FROM N	EAREST TOWN OR POS	T OFFIC	·E*		12. COUNTY OR PARISH	13 STATE
23 mi	les east of Az	tec, New Mex	rico			San Juan	New Mexic
5. DISTANCE FROM PROP	OSED*			O. OF ACRES IN LEASE	1 17. NO. C	OF ACRES ASSIGNED	
LOCATION TO NEARES PROPERTY OR LEASE		800 <b>'</b>		NA	TO TI	HIS WELL	246 70
(Also to nearest drl	g. unit line, if any)		10 .		00		346.13
	RILLING, COMPLETED,	NA	19. P	ROPOSED DEPTH 8200		RY OR CABLE TOOLS Rotary	
OR APPLIED FOR, ON TH			<u> </u>		1		
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)	6576 <b>'</b> GF	}			Sept. 1, 19	
			<u> </u>	····		Dep 3. 1/ 23	· · · · · · · · · · · · · · · · · · ·
3.		PROPOSED CASI	NG AN	D CEMENTING PROGRA	M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот	SETTING DEPTH	1	QUANTITY OF CEMEN	т
12 1/4"	9 5/8"	32.3#		350'	1	185 sks.	
8 3/4"	7"	20#		3900 <b>'</b>	·	65 sks.	
6 1/4"	4 1/2"	10.5#		8200'		25 sks.	
A BOP will be will be condu Gas is dedica The East half	installed aft cted through tted.  of Section 17	er the surfactor the BOPs.  I is dedicated the surfactor of the BOPs.	ed to	plug back, give data on pi	esent prod	uctive zone and proposed	new productive
reventer program, if an 4.  SIGNED M. TUCK	baugh			on subsurface locations ar			/79
(This space for Fede	eral or State office use)						
PERMIT NO.				APPROVAL DATE			
APPROVED BY			LE			DATE	

write sur

\*See Instructions On Reverse Side

AUG 1 1979

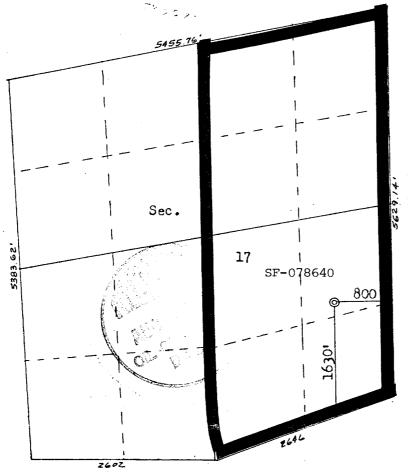
To the value

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

## 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 boundaries of	f the Section.	
Operator			Lease		Well No.
NORTHWEST	PIPELINE CORF	PORATION	SAN JUAN 32-7	UNIT	57
Unit Letter	Section	Township	Range	County	
I	17	32N	7W	San Juan	
Actual Footage Loc	ation of Well:	<del></del>			
1630	feet from the So	uth line and	800 fee	t from the East	line
Ground Level Elev:	Producing For	mation	Pool		Dedicated Acreage:
6576	Dakota		Basin		320 Acres
3. If more the dated by comparing the Yes  If answer this form in No allowal	an one lease of decommunitization, to the lease of decommunitization, to the lease of decommunitization, to the lease of necessary.)	ifferent ownership is unitization, force-pool name is "yes," type owners and tract des	dedicated to the well, ling. etc? of consolidation criptions which have a	ctually been consol	of all owners been consoli- lidated. (Use reverse side of ommunitization, unitization, een approved by the Commis-
. •		<sup>26</sup> 20≥.			CERTIFICATION



SCALE: 1"=1320'

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Mike Turnbaugh

Position

Assoc. Drilling Engineer

Company

Northwest Pipeline Corp.

7/31/79

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

July /20,/1979 >>

Registered Professional Engineer

Fred B

Certificate No. 3950

NORTHWEST PIPELINE CORPORATION

MULTI - POINT SURFACE USE PLAN

for the

San Juan 32-7 Unit

Well Number 57

- 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 approximatley 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 private sources.
- 6. Source of Construction Materials: No additional materials will be needed.
- 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 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 specified by land use authorities.

All equipment above ground will be painted a non-glare, non-reflective, non-chalking color that simulates the natural color of the site.

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.

- 12. Operator's Representative: M. J. Turnbaugh, P.O. Box 90, Farmington, New Mexico 87401 Phone: 327-5351 Extension 115.
- 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.

7/31/19

Date

M. Turnbaugh

Assoc. Drilling Engineer

### OPERATIONS PLAN

I. WELL NAME: San Juan 32-7 Unit #57

July 31, 1979

LOCATION: 1630' FSL & 800' FEL

Sec. 17, T32N, R7W

ELEVATION: 6576' GR

LEASE NUMBER: SF-078640

FIELD: Basin Dakota

### II. GEOLOGY:

Α.	Formation Tops:		Cliff House	5422'
	Ojo Alamo	2635'	Point Lookout	5622'
	Kirtland	2723 <b>'</b>	Greenhorn	7627 <b>'</b>
	Fruitland	3033 <b>'</b>	Graneros	7677 <b>'</b>
	Pictured Cliffs	3193'	Dakota	7852 <b>'</b>
	Lewis	3 <b>4</b> 52 <b>'</b>	Total Depth	8200 <b>'</b>

- B. Logging Program: Gamma Ray Induction & Density at total depth.
- C. Coring Program: None
- D. Natural Gauges: Gauge at 5622', 7627', 7677', and at total depth. Gauge any noticable increases in gas flow at depths other than those noted above. Record all gauges on daily drilling report and tower reports.

### III. DRILLING:

- A. BOP: Blind rams and pipe rams, 10', 900 series, double gate, rated at 3000 psi.
- B. Mud Program:
  - a) Spud Mud: Water, lime and gel.
  - b) Surface to 350.

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

Ph: 8.5-9.5

c) From 350' to 3900'.

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

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

d) From 3900' to total depth with gas.

## IV. MATERIALS:

A. Casing Program:

Hole Size	Depth	Casing Size	Wt. & Grade
12 1/4"	350 <b>'</b>	9 5/8"	32.3# H-40
8 3/4"	3900'	7"	20# K <del>-</del> 55
6 1/4"	8200'	4 1/2"	10.5# & 11.6# K-55

Operations Plan San Juan 32-7 #57 Page 2

B. Float Equipment:

Surface: 9 5/8" - Larkin guide shoe.

Intermediate: 7" - Guide shoe, self-filling insert float valve.

Production: 4 1/2" - Geyser shoe, flapper type float collar.

- C. Tubing: 8150' of 2 3/8", 4.7#, J-55, 8RD EUE tubing with a common seating nipple above bottom joint.
- D. Well Head Equipment: Gray Tool Company drawing No. E-5533, or equivalent. Well head representative to set slips on intermediate and production strings.

#### V. CEMENTING:

- A. Surface Casing: 9 5/8" Use 185 sacks of Class "B" cement with 1/4# gel flake per sack and 3% Calcium Chloride, (100% excess to circulate 9 5/8" casing). WOC 12 hours. Test to 600 psi for 30 minutes.
- B. Intermediate Casing: 7" Use 165 sacks of 65/35 Class "B" poz with 12% gel and 15.52 gallons of water per sack. Tail in with 50 sacks of Class "B" with 2% Calcium Chloride (360 cu. ft. of slurry 50% excess to cover Ojo Alamo). Use top rubber plug only. Run temperature survey after 8 hours. WOC 12 hours. Test casing to 1200 psi for 30 minutes.
- C. Production Casing: 4 1/2" Precede cement with 40 barrels of water mixed with 4 sacks gel. Cement with 225 sacks of Class "B" cement with 8% gel, 12 1/2# fine gilsonite per sack and 0.4% HR-4. Tail in with 100 sacks of Class "B" cement with 1/4% fine tuf-plug per sack and 0.4% HR-4 per sack.

MJT/ch

