SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

DEPARTMENT OF THE INTERIOR						36-639-22476 5. LEASE DESIGNATION AND SERIAL NO.	
GEOLOGICAL SURVEY						USA-SF-078739	
APPLICATION	FOR PERMIT T	O DRILL, E	DEEPEN, OR	PLUG B	ACK	6. IF INDIAN, ALLUTTEE OR TRIBE NAME	
IA. TYPE OF WORK DRIL b. TYPE OF WELL	L X	DEEPEN [PI	LUG BAC		7. UNIT AGREEMENT NAME San Juan 30-5 Unit	
Off. CAS	LL OTHER		SINGLE ZONE	MULTIPI ZONE	, <u>E</u>	s. FARM OR LEASE NAME San Juar. 30-5 Unit	
3. ADDRESS OF OPERATOR	<u>eline Corporati</u>		REC	JF/VI		9. WELL NO. #71 10. FIELD AND FOOL, OR WILDCAT	
P.O. Box 90, 4. LOCATION OF WELL (Re At Surface 960)	Farmington, New port location clearly and learly and le	Mexico 87	401 haby State requires T30N R5W	nents.*)		Basin Dakota	
11.	FSL & 1070' FV Same as above		U.S. Comp.	ories Signal se		Sec 22 T30N R5W	
14. DISTANCE IN MILES AS 25 Miles Ea	ND DIRECTION FROM NEAR		r OFFICE*			12. COUNTY OR FARISH 13. STATE Rio Arriba New Mexic	
15. DISTANCE FROM PROPUSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)				2320	тот	OF ACRES ASSIGNED W/320	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.			7700 T	н	20. ROTA	RY OR CABLE TOOLS / ROTARY 1 22. APPROX. DATE WORE WILL START*	
21. ELEVATIONS (Show when 6467)	GR					Sept 1980	
23.	P	ROPOSED CASIN	NG AND CEMENTI	NG PROGRA	.M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F		DEPTH	ļ	QUANTITY OF CEMENT	
12-1/4"	9-5/8"	<u>36#</u>	35		, –	.85 sks .50 sks	
8-3/4" 6-1/4"	7" 4 - 1/2"	20# 10.5# & 1	370 1.6# 770			350 sks	
Completion pl	erforate and st ans will be det	ermined at	Total Depth	1.	_		
A BOP will be work will be	installed afte conducted throu	er the surf agh the BOF	ace casing i	is set a	nd cem	ented. All subsequent	
The West hal	f of Section 22	is dedica	ted to this	well.		-ministrative	
Gas is dedica	ted.			RFT		ection is subject to administrative .	

IN ABOVE SPACE DESCRIBE PROFUSED PROGRAM; If proposal is to deepen or plug tack hive data on segsent productive zone and proposed new productive zone. If proposal is to deall or deepen directionally, give pertinent data on susurface locations for masural and true vertical depths. Give blowout

preventer program, if any. DATE June 2, (This Ander For House) or Righte office use) TITLE

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

P. O. DOX 2088 APR 2 5 1980

Form C-102 Revised 10-1-78

ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

		All distances must be from		44 114 (34 (4)(114)	THE BUILDING WAIL NO
Operator			Lease	· /	We., 140.
NORTHWEST P	IPELINE CORPO		SAN JUAN 30		71
Unit Letter	Section	Township	Range	County	
М	22	30N	5W	Rio Ar	riba
Actual Footage Loc	ation of Well:				
860	feet from the	South line and	1070	feet from the We	st line
Ground Level Elev.	Producing For	rmation	Pool		Dedicated Acreage:
6467	Dako	ta	Basin Dak	ota	320 Acres
			11 1 1	.1 -1 -1	la an the plat halam
1. Outline the	e acreage dedica	ited to the subject we	il by colored pend	il or nachure mar	ks on the plat below,
					11 1 6/1 1 . 11
2. If more th	an one lease is	dedicated to the well	, outline each and	identity the own	ership thereof (both as to working
interest ar	nd royalty).		4		
3. If more tha	an one lease of d	lifferent ownership is d	ledicated to the w	ell, have the inter	rests of all owners been consoli-
dated by c	ommunitization, u	unitization, force-poolir	ng. etc?		
					·
Y Yes	No If a	nswer is "yes," type of	consolidation	<u>Jnitization</u>	
-					
If answer	is "no," list the	owners and tract descr	riptions which hav	e actually been c	onsolidated. (Use reverse side of
	f necessary.)	·	•	· · · · · · · · · · · · · · · · · · ·	
NT _ 11 1	حداده مطالنه ماه	ed to the well until all	interests have he	en consolidated	(by communitization, unitization,
No allowar	ole will he assign	\	Innit aliminating	such interests h	as been approved by the Commis-
	ling, or otherwise,	or until a non-standard	i unit, eliminating	such interests, in	as been approved by the dominio
sion.					
#en gelymay to labor to see	ander ver website	20 - 1 20 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			CERTIFICATION
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	. !		1	·	tained herein is true and complete to the
3	!		1		best of my knowledge and belief.
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	•	8	1	1 1	Paul C. Thompson
	1	2	1		osition
	i		ļ		Drilling Engineer
	i	2	į	C	ompany
	i		1		Northwest Pipeline Corp.
	1	3	!	D	ate
Ę.	S	Sec.	!		April 29, 1980
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		22	į į	. • • • • • • • • • • • • • • • • • • •	I hereby certify that the well location
	1	· 👺	1	11	shown on this plat was plotted from field
	1		I b	11	nates of actual surveys made by me or
2	Í		1	. 11	under my supervision, and that the same
No.	1		1		is true and correct to the best of my
	l		1 3.	. II	knowledge and belief.
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	Secretary of All the second	10 10 10 10 10 10 10 10 10 10 10 10 10 1			ertificate No.
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Northwest Pipeline Corporation

Drilling Prognosis

San Juan 30-5 Unit #71

Date: May 23, 1980

I. Location: 1070' FWL & 860' FSL

Surface: BLM Sec 22, T30N, R5W

Rio Arriba County, New Mexico

Minerals: Fed - SF - 078739

Field: Basin Dakota

Elevation: 6467' GR.

II. Geology: Surface San Jose

Α.	Formation:	Depth	Formation	Depth
***	Ojo Alamo	26451	Mancos:	5912'
	Kirtland:	27331	Gallup:	6737 '
	Fruitland:	3043 '	Greenhorn:	7627 '
	Pictured Cliffs:	3203 '	Graneros:	7677 '
	Lewis:	3412 '	Dakota:	7807 ¹
		5432 '	Total Depth:	7910'
	Cliff House:		100di Depuiii	12-1
	Point Lookout:	5627 '		

Logging Program: Gamma Ray-Induction & Density at Total Depth.

C. Coring Program: None.

D. Natural Gauges: Gauge @ 5627'; 6737', 7677', and @ total depth. Record all

gauges on daily drilling report and morning report. Gauge

all noticeable increases in gas while drilling & report.

III. Drilling:

A. Contractor:

Mud Program: Mud, water & gas will be furnished by Northwest Pipeline Corp from surface to total depth.

a) Spud Mud: Water, Gel & Lime.

b) Surface casing to Intermediate casing depth: Water, Gel, Lime & Barite.

c) From Intermediate casing depth to T.D. will be drilled w/ gas.

While drill pipe is in use, pipe rams shall be actuated to test proper functioning not less than one each day.

Once each trip, the blind rams shall be actuated to test proper functioning.

Record all tests on Northwest Pipeline tour report, with time each test was conducted.

IV. Materials:

A. Casing Program:

Hole size	Depth	Casing Size 9-5/8"	WT & Grade	Depth Set
12-1/4"	<u>Depth</u> 350'	9-5/8"	36# K-55	3 50 '
8-3/4"	3612 '	7"	20# K - 55	3162'
6-1/4"	7910 '	4-1/2"	10.5# K-55	0– 58 00 1
5 2 / · ·	12-3	4-1/2"	11.6# K-55	6800'⇒T.D.

B. Float Equipment:

Surface Casing: 9-5/8" - Larkin Guide Shoe and Self-fill insert float valve.

Intermediate Casing: 7" - Dowell Guide Shoe, Dowell Self-fill insert float valve. Dowell centralizers five (5).

Production Casing: 4-1/2" - Larkin Geyser Shoe. Larkin Flapper type float collar.

C. Tubing: 7900' of 2-3/8", 4.7#, J-55, 8 RD EUE tbg w/ 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 sks of Cl "B" cmt w/ 1/4# gel flake per sk and 3% CaCl2, (100% excess to circulate 9-5/8" csg). WOC 12 hrs. Test to 600 psi for 30 min.

B. Intermediate Casing: 7" - Use 100 sks of 65/35 Cl "B" poz w/ 12% gel & 15.52 gal of wtr/sk. Tail in w/ 50 sks of Cl "B" w/ 2% CaCl₂ (250 cu.ft of slurry, 60% excess to cover Ojo Alamo). Use top rubber plug only. Run temperature survey after 8 hrs. WOC 12 hrs. Test csg to 1200 psi for 30 min.

C. Production Casing: 4-1/2" - Precede cmt w/ 40 bbls of wtr mixed w/ 4 sks gel Cmt w/250 sks of Cl "B" cmt.w/ 8% gel, 12-1/2# fine gilsonite per sk and 0.4% HR-4. Tail in w/ 100 sks of Cl "B" cmt w/ 1/4# fine tuf-plug per sk & 0.4% HR-4 per sk. (660 cu.ft. of slurry) (50% excess to fill to intermediate csg). Run temperature survey after 8 hrs. Perforate after 18 hrs.

Mike Turnbaugh

MT/djb 5-23-80

- 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 NW Rosa Road Waterhole.
- 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 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.

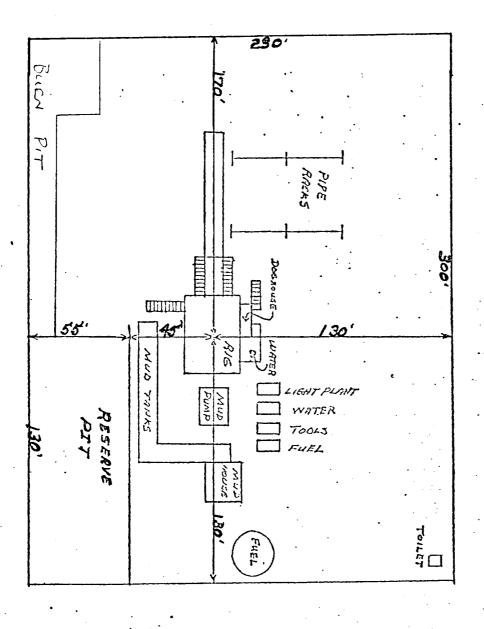
The area covered by the location and proposed access road is gently sloped with scattered brush and some grasses.

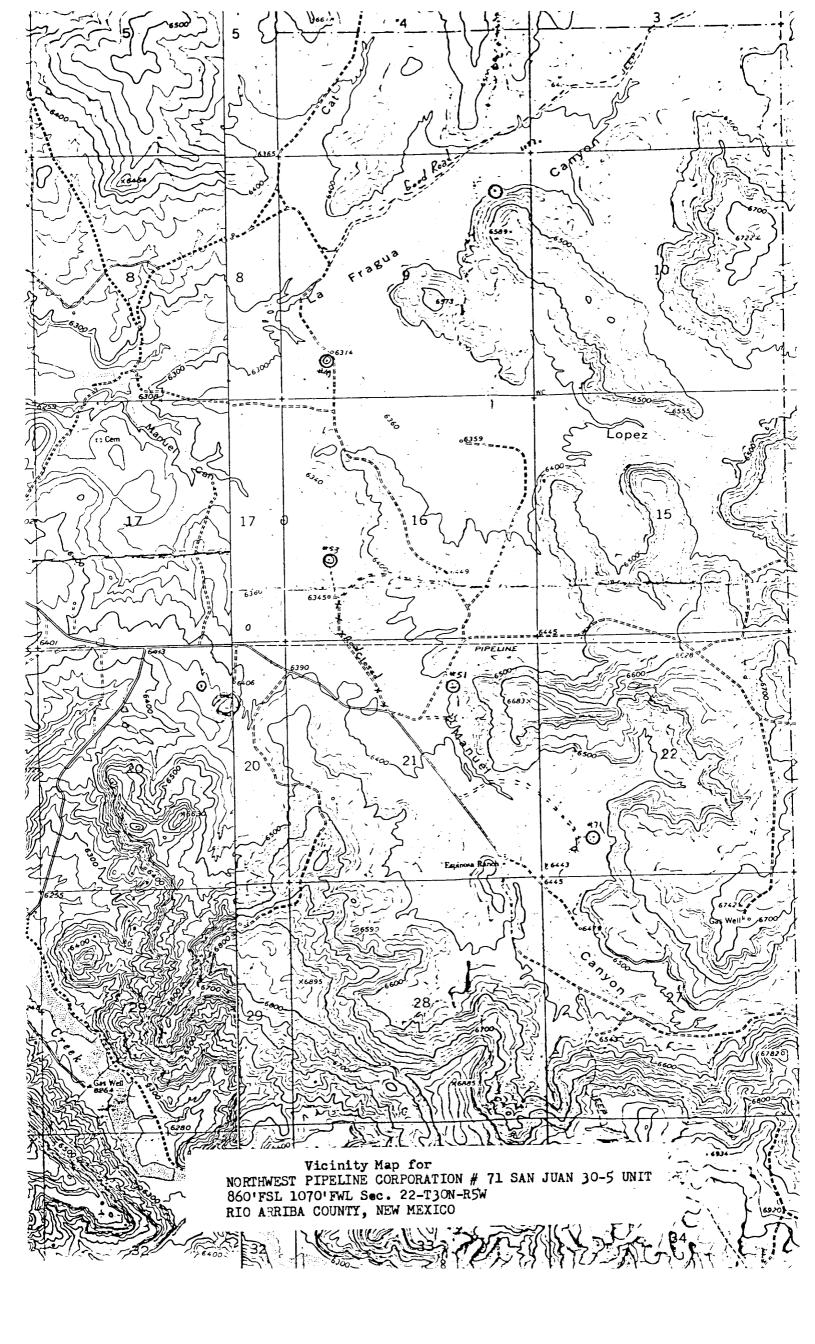
- 12. Operator's Representative: Paul Thompson P.O. Box 90 Farmington, New Mexico 87401. Phone: 327-5351 Extension # 115
- 13. Certification:

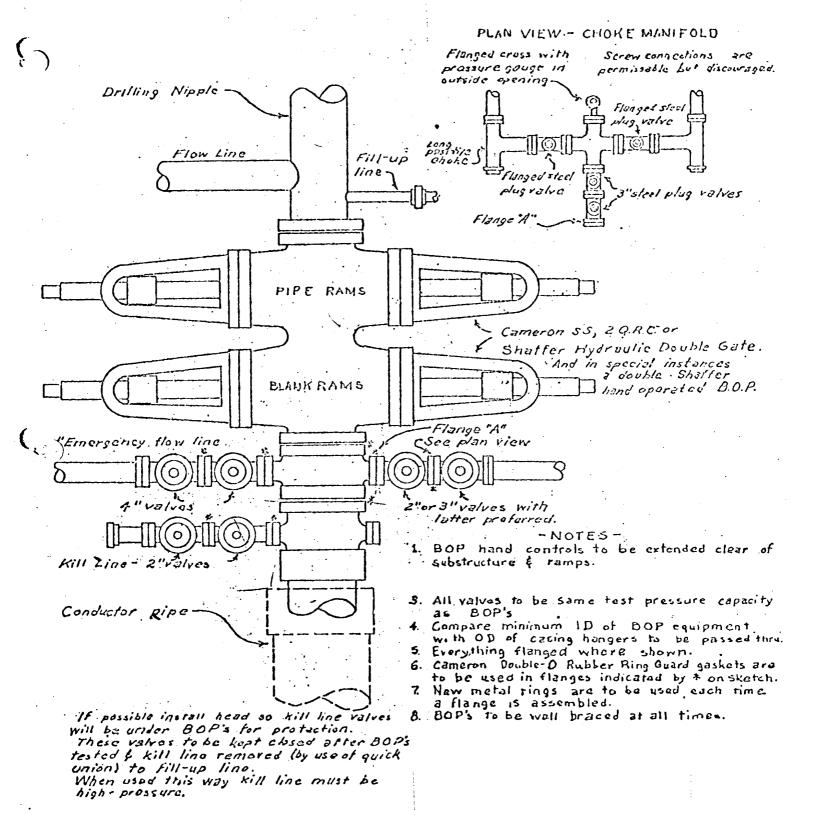
I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will 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.

Paul Thompson
Drilling Engineer

WJB/ch







SINGLE PIPE RAM BLOWOUT PREVENTOR HOOKUP

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