SUBMIT IN TRIPLICATE.

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side) UNITED STATES

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31-645-	-526
5. LEASE DESIGNATIO	N AND SERIAL NO.

DATE_

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	DEPARTMENT	OF THE IN	NTER	RIOR		1	5. LEASE DESIG			
	GEOLO	GICAL SURVE	ΞΥ				-149-		_	
APPLICATION	V FOR PERMIT	TO DRILL D	FFPF	N OR PI	UG B	ACK	6. IF INDIAN, AI			E
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK					Navajo Navajo					
DRI	ILL 🗌	DEEPEN [PLU	G BAC	к 🗌 📗	7. UNIT AGREES	CENT NAM	1E	
b. TYPE OF WELL	us (II)		SI	NGLE [MULTIPL	- ا ت	S. FARM OR LEA	ee Vile		
WELL, W	ELL X OTHER			NE LX	ZONE		Blanco			
	olina Carnarati					-	9. WELL NO.			
3. ADDRESS OF OPERATOR	eline Corporati	on		-			#2A			
P.O. Box 90.	Farmington, New	Mexico 874	01			1-	10. FIELD AND	POOL, OR	WILDCAT	
4. LOCATION OF WELL (R) At surface	Farmington, New eport location clearly and	in accordance with	h any S	tate requirement	s.*)		Blanco	Mesa	Verde	
/ 1980	' FSL & 1250' F	EL Sec 12	T271	n R9W			11. SEC., T., B., AND SURVEY	M., OR EL	K.	
At proposed prod. zon	^e Same as above						Sec 12 T	27N F	R9W	
	AND DIRECTION FROM NEA		OFFICE	2.		T I	12. COUNTY OR			
10 miles south	h of Blanco, Ne	w Mexico				1	San Juan	,	New Mex	ica
15. DISTANCE FROM PROPULOCATION TO NEAREST	ISED*		16. NO	. OF ACRES IN L	EASE	17. NO. OF	ACRES ASSIGNE	<u> </u>	31.W. 111.A.	
PROPERTY OR LEASE L (Also to nearest drig	gunit line, if any) 125	50'		N/A		E	/320			
18. DISTANCE FROM PROP TO NEAREST WELL, D	OSED LOCATION® RILLING, COMPLETED,		19. PR	OPOSED DEPTH		20. ROTAR	OR CABLE TOOI	.s		
OR APPLIED FOR, ON THE		N/A		4535			Rotary	· WODE	Z TELL COLD	
	34 GR						APPROX, D.	ALE NOBE	WILL SIAR	
23.		PROPOSED CASIN	G AND	CEMENTING	PROGRA	M	·			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	ют	SETTING DE	тн		QUANTITY OF	CEMENT		
12-1/4"	9-5/8"	36#		200'			115 sks		· · · · · ·	
8-3/4"	7"	20#		2315			215 sks			
6-1/4"	4-1/2"	10.5#		2115' -	4535		250 sks	;		
•	1		,	•	ا Thio Ba ti o	M is subje	ct to administ			
				8	्ट्रेक्ट्र ी हैं।	usuant to	30 CFR 2901	lative		
Selectively pe	erforate and st	imulate the	Mesa	a Verde Fo	rmatio	on.				
							0717	ET ARE	.5.	
						o perrati	CHE AUTHORIA	HOATTACH	EQ.	
A BOP will be	ans will be det installed afte	r the surfa	ce ca	asing is s	et and	i cemen	tedice All	subse	∍quent	
work will be o	conducted throu	gn the BOP	s.			4.44	ESTENTS'I			
The East half	of Section 12	is dedicate	d to	this well	•					
	_	1 [1]								
Gas is dedicat	ted.	18		-11						
		/ N in its	de l'	1						
		AUG	291	agn						
IN ABOVE SPACE DESCRIBE	E PROPOSED PROGRAM: If	1			nta on pr	esent produ	ctive zone and	proposed	new produc	tive
	e proposed program: If drill or deepen direction:				ations an	d measured	and true vertice	il depths.	. Give blow	out
preventer program, if an 24.	y.	DI.	ST. 3	-						—
Karl	C Thomas	5001		Drilling E	ngine	2 r		June	6. 1980	1
Pau Pau	I C. Thompson	TIT	LE		6		DATE	- June		<u>-</u>
(This space for Fede	ersl or State office use)									٠
PERMIT NO. A 175 A	and the second s			APPROVAL DATE						

*See Instructions On Reverse Side

PCT/dih

STATE OF NEW MEXICO EHERGY AND MINERALS DEFARTMENT

IL CONSERVATION DIVISIO P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 All distances must be from the cuter houndaries of the Section

		XII OLITICES	must be from the co				Well No.
Sperator		20216721	Lease				
NORTHNEST :	PIPELINE COR Section	PORATION Township		ANCO nge	County		12-A
out Letter			143			. Tues	
Actual Footage Loc	12	27N		9W) Sar	n Juan	
_		0		ر ٥		Doot	11
1980 Ground Level Elev.	feet from the Producing F	South	line and 12	50	feet from the	East	line cated Acreage:
•			1	anco Mesa	Verde	Dean	320 Acres
5934	Mesa V						
 Outline th 	e acreage dedic	cated to the s	ubject well by c	olored penci	l or hachure n	narks on the pla	it below.
	an one lease i nd royalty).	s dedicated to	o the well, outlin	ne each and i	identify the ov	wnership thereo	f (both as to working
	ommunitization,	unitization, fo	ership is dedicat orce-pooling.etc? s;" type of conso	•		nterests of all	owners been consoli-
this form i No allowal	f necessary.) ole will be assig	ned to the wel	l until all interes	sts have bee	n consolidate	d (by communi	(Use reverse side of tization, unitization,
torced-poo sion.	ling, or otherwis	e) or until a no	n-standard unit,	eliminating s	such interests	, nas been appr	roved by the Commis-
			veres to gest in the	Tagain Baar ja Ar		CE	OTLEIC ATION
-	!	善		1		CE	RTIFICATION
		是是一种 医腹腔	7			tained herein is	that the information construe and complete to the vieldge and belief.
	+			- 		Name Paul C. T	hompson
	t		\odot	1	\$	Position	
	1		;	i		Drilling :	Engineer
	i I	2 m	/	i	•	Company	
,	i			i	· ·		Pipeline Corp.
ľ	i			-1	ž.	Date	
	1	Sec.	·	$\mathbf{t} = \mathbf{t} - \mathbf{t} - \mathbf{t}$		6-9-80	•
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	i	4	BLANCO	11/100	THE SECOND		
1	l	(1) (1)	Z 1		÷.	Date Surveyed	158ED 121
i	1		5 1:	/ I 💆		Cotober	92, 15, 25, 37, 1
	1	· · · · · · · · · · · · · · · · · · ·	8	198		Registered Pote and/or Land Surv	/\ -: \
\ <u> </u>					Carried State	Certificate No.	3
0 330 660	90 1320 1650	1980 2310 2640	2000 15	00 1000	B00 0	3950	FERR, IN.

NORTHWEST PIPELINE CORPORATION

DRILLING PROGNOSIS

Blanco #2A

DATE: 6/13/80

I. LOCATION: 1250' FEL & 1980' FSL

ELEVATION: 5934'GR

Sec. 12, T27N, R9W

SURFACE: Navajo

San Juan County, New Mexico

MINERALS: Navajo Contact

#1-149-Ind.- 8465

FIELD: Blanco MV

GEOLOGY: Surface Formation - Nacimiento

Α.	Formation Tops:	Depth	Formation Tops	Depth
	Ojo Alamo:	1074'	Chacra	2864'
	Kirtland:	1174'	Cliff House:	3 654 '
	Fruitland:	1704'	Menefee:	3696 1
	Pictured Cliffs:	2004	Point Lookout:	4275 '
	Lewis	2114'	Total Depth:	45351

B. Logging Program: Production Casing Point - Gamma Ray-Induction

and Density. (Logs to cover Chacra Formation).

Gauge at last connection above 2864', 3654', 4275', and C. Natural Gauges: Gauge any noticeable increases in gas flow @ depth other than those noted above. Record all gauges on daily drilling and morning

III. Drilling:

Α. Contractor:

- Mud Program: Mud, water and gas will be furnished by Northwest Pipeline Corporation from Surface to Total Depth.
 - a) From Surface to Intermediate casing depth to be drilled with mud.
 - b) From Intermediate casing to Total Depth to be drilled with gas.
- C. While drill pipe is in use the pipe rams will be tested not less than once each day. The blind rams will be tested once each trip. All tests will . be reported in the Northwest Pipeline tour reports as to time and

IV. Materials:

A. Casing Program:

Hole Size	Depth O.H.	Casing Size	WT & Grade	
$\frac{12-1/4''}{12-1/4''}$	2001	9-5/8"	32.3# H-40	
8-3/4"	2315'	7"	20# K-55	
6-1/4"	4535'	4-1/2"	10.5# K-55	(2115'-4535').
0-1/4	4000	,		· ·

B. Float Equipment:

a) Surface Casing: 9-5/8" - B&W Regular Pattern Shoe.

- b) Intermediate Casing: 7" Dowell guide shoe (Code #50101-070) and self fill insert float collar (Code #53003-070). Seven centralizers (Code #56011-070) spaced every other joint above the shoe. Place float one joint above shoe.
- c) Liner: 4-1/2" Larkin geyser shoe (Fig 222) and Larkin Flapper type float collar (Fig 404). Burns liner hanger with neopreme pack off.
- C. Tubing Program: 4500' of 2-3/8", 4.7#, EUE, J-55 tubing with seating nipple on top of bottom joint. Expendable check valve on bottom.

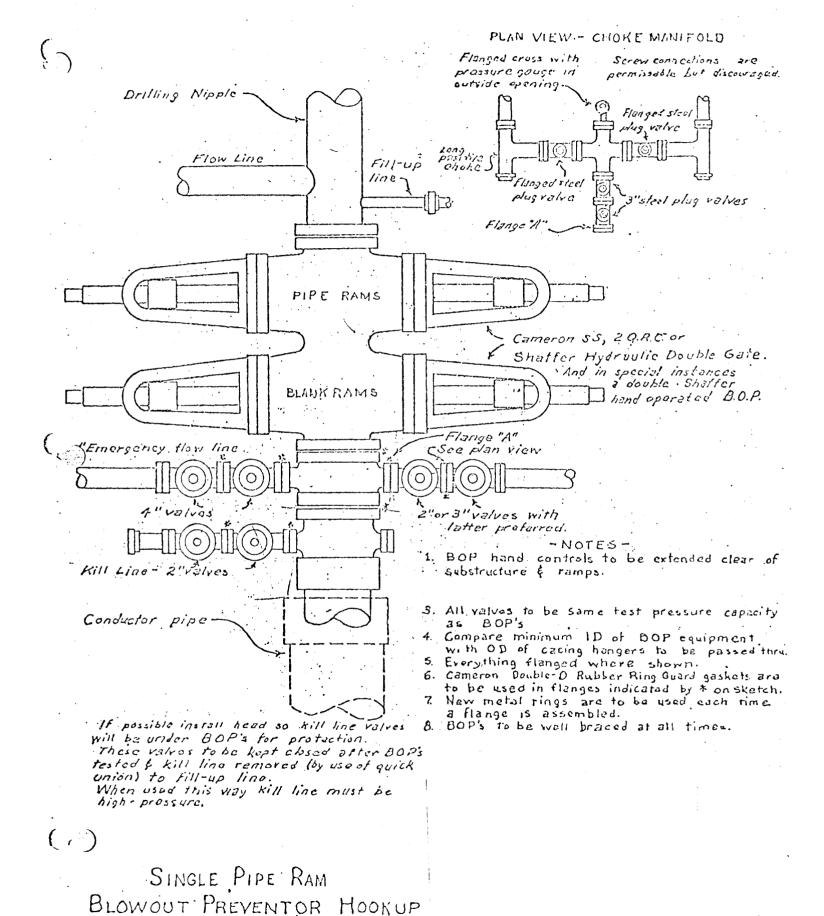
D. Well Head Equipment: WKM Well Head. WKM representative to set slips and Make cut off.

V. Cementing:

- A. Surface Casing: 9-5/8" Use 115 sks of Class "B" with 1/4# gel flake per sk and 3% CaCl, (100% excess to circulate). WOC 12 hrs. Test surface casing to 600 psi for 30 min.
- Intermediate Casing: 7" Use 140 sks of 65/35 poz with 6% gel. (Yield -В. 1.63). Tail in with 75 sks Class "G" with 2% CaCl, (65% excess to cover Ojo Alamo). WOC 12 hrs. Run temp survey at 8 hrs. Test casing to 600 psi.
- C. Production Liner: 4-1/2" Use 250 sks of Class "B" with 4% gel and 1/4 cu.ft of fine Gilsonite per sk. Precede cement with 20 bbls water mixed with 3 sks gel. (70% excess to circulate liner). Clean out with 6-1/4' bit to top of liner and pressure test with rig pump. (Test 12 hrs after plug is down). Lay down drill pipe and run 3-7/8" bit on 2-3/8" EUE tubing and clean out liner. Perforate 18 hrs after plug is down.

Well File Original:

Regular Distribution



- 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 Ditch at Blanco
- 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 sits unless otherwise specified by the surface agency's representative.

Multi-Point Surface Use Plan

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.

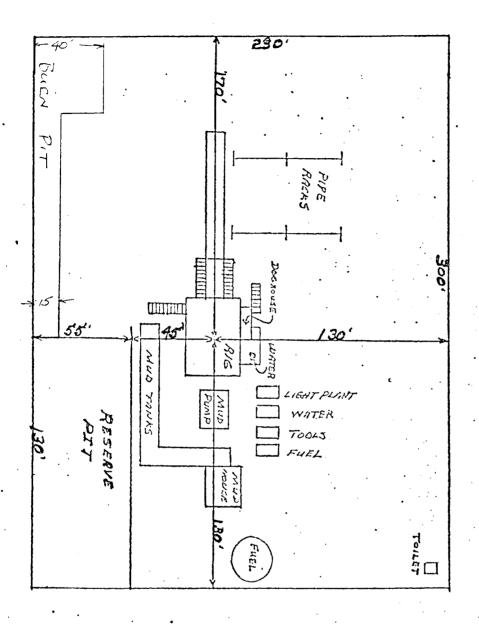
The area covered by the location and proposed access road is gently sloped with scattered brush and some grasses.

- 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



DATE: 6/11/80

