DISTRICT	1		
O Box 1980	Hohhs	NM	88241-1980

DISTRICT II

P.O.Drawer DD, Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 State of New Mexico Energy, Minerals and Natural Resources Departn

OIL CONSERVATION DIVISIO

ON AUG



P.O.Box 2088 Santa Fe, New Mexico 87504-2088

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CORE Filting Instructions Bottom of Page

d 4-1-91

APPLICATION FOR MULTIPLE COMPLETION

NORTHWEST PIPELINE CORPORATION P.O. BOX 58900 SALT LAKE CITY, UTAH 84158-0900

Operator

Address

ROSA UNIT	#8	M 26 31 06	RIO ARRIBA
Lease	Well No.	Unit Ltr. — Sec — Twp — Rge	County

All applicants for multiple completion must complete Items 1 and 2 below.

	ne following facts are britted:	Upper Zone	Immediate Zone	Lower Zone
a.	Name of Pool and Formation	PICTURED CLIFFS		MESAVERDE
	Top and Bottom of Pay Section (Perforations)	3272' - 3327'		5406' - 5689'
	Type of Production (Oil or Gas)	GAS		GAS
	Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING
	Daily Production Actual Estimated Oil Bbls. Gas MCF Water Bbls.	IP TEST 2,556 MCF/D		ACTUAL PRODUCITON 48 MCF/D

2. The following must be attached:

- a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- c. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

OPERATOR:	OIL CONSERVATION DIVISION
I hereby certify above information is true and complete to best of my knowledge, and belief. Signature	OPICINAL SIGNED DY COME DUDGU
Printed Name & Title KATHY BARNEY SR. OFFICE ASSISTANT	
Date 08/24/94 Telephone (801)584-6981	Date: AUG 2 5 1994

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

FILING INSTRUCTIONS:

- 1. District Approval ------ See rule 112-A-B ------ Submit 4 copies of Form C-107 with attachments to appropriate district office.
- 2. <u>Division Director Administrative Approval</u> See Rule 112-C Submit 2 copies of Form C-107 with attachments to Division office in Santa Fe and 2 copies of Form C-107 with attachments to appropriate district office.
- 3. Multiple completions not qualifying for District or Division Director approval may be set for hearing as outlined in Rule 112-A-E.



HOLE SIZE	CASING	CEMENT	VOLUME	TOP OF CMT
13-3/4	10-3/4" 32.75#	102 SX	158 CU.FT.	SURFACE
9-7/8"	7-5/8 26.4#	200 SX	347 CU.FT.	2050'(CBL)
6-3/4*	5-1/2' 14#	100 SX	136 CU.FT.	4626'(calc)



OFFSET OPERATORS ROSA UNIT #8 M-26-31N-6W

1. LEASE: ROSA UNIT

Operator; Northwest Pipeline Corp, MS-2M3, P.O. Box 58900, Salt Lake City, UT, 84158-0900

2. LEASE: SAN JUAN 31-6 UNIT

Operator: Phillips Petroleum Company, P.O. Box 1967, Houston, TX, 77251-1967



STATE OF NEW MEXICO

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ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

Page 1 Revised 10/01/78

This form is not to be used for reporting packer leakage tests in Southeast New Mexico

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator	Operator NORTHWEST PIPELINE CORPORATION				Lease	ROSA U	NIT	Well N	o. <u>8</u>
Location									
of Well: U	nit L	Sec.	26	Twp.	31N	Rae.	6W	County R	IO ARRIBA

	NAME OF RESERVOIR OR POOL	TYPE OF PROD (Flow or Art. Lift)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	PICTURED CILFFS	GAS	FLOW	TUBING
Lower Completion	MESA VERDE	GAS	FLOW	TUBING

PRE-FLOW SHUT-IN PRESSURE DATA

Upper	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Completion	1430 HOURS, 8-15-94	68 HOURS	SITP = 1345, SICP = 1345	YES
Lower	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Completion	1300 HOURS, 8-6-94	260 HOURS	SITP = 442	YES

FLOW TEST NO. 1

date)* 8-17-94 1030	Zone producing (Upper or Lower) MV LOWER					
LAPSED TIME	PRESSURE			PROD. ZONE	REMARKS	
SINCE*	PC Upper Completion		MV Lower Completion	TEMP.		
	TBG	CSG	TBG			
23.5 HOURS	1367	1367	383	640	ST = 8.9, Diff = 1.0 Q = 17 MCF/D	
24 HOURS	1379	1379	368	67°	ST = 8.8, Diff = 4.0 Q = 48 MCF/D	
	LAPSED TIME SINCE* 23.5 HOURS	SINCE* F Upper Ca TBG 23.5 HOURS 1367	LAPSED TIME SINCE* PC Upper Completion TBG CSG 23.5 HOURS 1367 1367	LAPSED TIME SINCE* PC MV Upper Completion Lower Completion 23.5 HOURS 1367 1367 383	LAPSED TIME SINCE* PRESSURE PROD. ZONE TEMP. PC Upper Completion MV Lower Completion TEMP. 23.5 HOURS 1367 1367 383	

REMARKS: OP = .375" SP = 500 Range = 100

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

___ 19_____

Approved New Mexico Oil Conservation Division

Operator	NORTHWEST	PIPELI	NE CORPORATION
_			

By	Mark McCallister	WHV /
Title	Senior Engineer	
Date	8-22-94	

Ву

Title

NEW MEXICO OIL CONSERVATION COMMISSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Туре			AND ONE			UN PHESS		ل لحظ الــ	Test Date	<u> </u>	<u> </u>
Com	Company Connection								08/21/94		
NORTHWEST PIPELINE CORPORATION WILLIAMS FIELD SERVICES						<u> </u>					
Pool BLAN	∞	_		Format PICTUF	ion RED CLI	IFFS			Unit ROSA		
Comp 07/25	pletion Date 5/94	Total Dept	h	Plug B	ack TD		Elevat	ion		Farm or Lease ROSA UNIT	Name
Casin	g Size	Weight	d	Set At		Perforations: From		ō		Well No. #8	
Tubin	g Size	Weight	d	Set at		Perforations: From		ō	<u></u>		Twp Rng 31N 06W
Туре	Well - Single - Braden	head - GG or	GO Multiple	Packer	Set At				County RIO ARRIBA	<u> </u>	
Produ TUBIN	icing Thru NG	Reservoir 1	ſemp. ∘F	Mean A	nnual T	emp. oF	Barom	eter Pre:	ssure - P.	State NEW MEXICO	
L	н	Gg	%CO2	1	%N2		%H ₂ S		Prover	Meter Run 2"	Taps
	l	FLOW DAT	ГА		l	TUBIN	ig data		CASI	NG DATA	
NO.	Prover X Line Size	Orifice Size	Pressure p.s.i.g.	Tempe ∘f		Pressure p.s.i.g.	•	erature F	Pressure p.s.i.g.	Temperature ∘F	Duration of Flow
SI	2" X 3/4"					1397	55		1397		0 HBS
1.						308	62		1121		0.5 HRS
2.						_270	72		1011		1.0 HRS
3.						_246	Π		956		<u>1.5 HRS</u>
4.						232	71		894		2.0 HRS
5	· · · · · · · · · · · · · · · · · · ·		L	BATE O	FEIOV	V CALCULATIO	<u>82</u>		791	l,	_3.0 HBS
				r		Flow Ten			Gravity	Super	Data of
NO.	Coefficier (24 Hour		√h.P.		Pressure Flow Temp. P _t Factor Ft_			Factor Compr Fg Factor,		Rate of Flow Q,Mcfd	
1	9.604			210		.9795		1.270		1.019	2556
2.											
3											
4.					<u> </u>						
<u>5.</u> NO.	Pr	Temp.		L		z					
	<u>г</u>			Т,					rocarbon Ratio		Mcf/bbl.
1. 2.								-	Liquid Hydroc		Deg.
3.		·							Separator GA		XXXXXXXX
4.								Pressun		p.s.i.a.	p.s.i.a.
5.								Temper			p.s.i.a. R
P <u>_ 140</u>	9	P _c ² 1,985,28	31								<u></u>
NO.	P _t ²	Ρ.	P, 2		P _c ² -	P,,²	(1)	P. ² =	1.481 (2) [P. ²] "=1.39	
1		803	644,809	1,340,47	72		Ϋ́ Ρ _c	- P.2	[/	$\frac{P_{c}^{2}}{P_{c}^{2} - P_{u}^{2}} = \frac{1.39}{1.39}$	~
2.							AOF =	Q [F	$\left[\frac{p_{e}^{2}}{p_{e}^{2}}\right]^{*} = \frac{2}{2}$	569	
3.								۲ _c ²	- P. ²		
4				·							
Absolu	te Open Flow _3569	N	Actical @ 15.025	Angle of	f Slope	θΙ		_ 1	Slope, n	.85	
Remar	ks:										
	ved By Commission:		Conducted By C. CHARLEY			Calculated By STERGIE KAT				Checked By:	L
			•							<u>/ / / / / / / / / / / / / / / / / </u>]

Form C-122