## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Company   Registrate   Production   Corp.   Lease   "V"   Well No.   2-3	Pool	Blanco M	V Extn	Ţ	ormation	M	locaverde	<u> </u>	_County_	Rio	Arriba
Unit 3 Sec. 5 TVp. 26N Rgs. 5N Purchaser Net connected  Casing 51 Nt. 12.3 I.D. Set at 7678 Perf. 4820 To 5426  Tubing 1-12 Nt. 4.7 I.F. Set at 4771 Perf. To  Gas Pay: From 2.3 I.F. Set at 4771 Perf. To  Gas Pay: From 2.3 I.F. Set at 4771 Perf. To  Gas Pay: From 2.3 I.F. Set at 4771 Perf. To  Gas Pay: From 2.3 I.F. Set at 4771 Perf. To  Gas Pay: From 2.3 I.F. Set at 4771 Perf. To  Gas Pay: From 2.3 I.F. Set at 4771 Perf. To  Gas Pay: From 2.3 II.F. Set at 4771 Perf. To  Gas Pay	Initial XX Annual Special Date of Test 3-1-57										
Unit 3 Sec. 5 TVp. 26N Rgs. 5N Purchaser Net connected  Casing 51 Nt. 12.3 I.D. Set at 7678 Perf. 4820 To 5426  Tubing 1-12 Nt. 4.7 I.F. Set at 4771 Perf. To  Gas Pay: From 2.3 I.F. Set at 4771 Perf. To  Gas Pay: From 2.3 I.F. Set at 4771 Perf. To  Gas Pay: From 2.3 I.F. Set at 4771 Perf. To  Gas Pay: From 2.3 I.F. Set at 4771 Perf. To  Gas Pay: From 2.3 I.F. Set at 4771 Perf. To  Gas Pay: From 2.3 I.F. Set at 4771 Perf. To  Gas Pay: From 2.3 II.F. Set at 4771 Perf. To  Gas Pay											
Casing   Mr.   13.5   J.E.   Set at   1678   Perf.   4120   To   5426	Unit B Sec. 5 Twp. 26N Rge. SW Purchaser Net connected										
Tubing 1/4 Wt. 4.7 I.I. Set at 4771 Perf. To  23 Gas Pay: From 23 To 425 I. 4770 XG 650 GL 3100 Bar.Press.  Producing Thru: Casing X Tubing Type Well Trible 4.6 - 6. Single-Bradenhead, G. or G.O. Dual  Date of Completion: 12.26 Packer 10 Packer 1	Casi	ng s h	/t. 15.5	_I.D	Se	t at <b>767</b>	Pe	rf <b>4</b>	820	To <b>5</b>	426
Casing   From   Casing   R	Tubi	2-3/A 17 7421									
Date of Completion:   12-26-56   Packer	Gas	Pay: From_	<b>2.3</b> <b>4829</b> To	542	6 L 47	7 <b>70</b> x(	6 <b>50</b>		3100	Bar.Pre	ess
Date of Completion:   12-26-56   Packer	Prod	ucing Thru:	Casing		Tu	bing	<del></del>	Type We	11 <b>Tri</b>	<u>plo - G</u>	-G -G
Prested Through   Press   Choke   Press   Diff   Temp.   Press   Temp.   Press   Temp.   Choke   Press   Diff   Temp.   Press   Temp.   Press   Press   Temp.   Cof Flow   Size   Size   psig   hw   OF   psig   OF   OF   OF   OF   OF   OF   OF   O											
Flow Data						OBSERVE	ED DATA				
No. (Line)   Press.   Diff.   Temp.   Press.   Press.   Temp.   Press.   Press.   Temp.   Press.   Press.   Temp.   Temp	Test	ed Through	(Ptotet)	(Choke)	Teletdi	<i>,</i>			Type Tap	os	
No.   (Line)   (PARTAM)   No.   Size   Size   No.   No.   Size   Size   No.   No.   1107   No.   1107   No.   12104   No.   12	~	(Province)			Dicel	To			Casing I	ata	Duration
SI	No.	(Line)	(DATTHE	<i>h</i> / <b>w</b>		-			DC .		of Flow
FLOW CALCULATIONS   Compress   Rate of Flow   Flow Temp.   Gravity   Compress   Rate of Flow   Factor   Facto	SI	2120	2120	<del></del>	<del></del>						<del> </del>
FLOW CALCULATIONS  FLOW CALCULATIONS  Rate of Flow Temp.  Factor  Factor  Factor  Factor  Fy  Fy  Fy  Fy  Fy  Fy  Fy  Fy  Fy  F	$\frac{1}{2}$		3/4"	164	<del> </del>	<b>91</b>	2144		988	<del> </del>	3 he
Pressure   Flow Temp.   Gravity   Factor   Fac	3.										
Pressure   Flow Temp.   Gravity   Factor   Fac	4.				<del> </del>					-	
C24-Hour   V   NwPf		FLOW CALCULATIONS									
PRESSURE CALCU'ATIONS  as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Pc 1119 Pc 1252  No. Pw Pt (psia) Pt FcQ (FcQ)2 (FcQ)2 Pw Pc-Pw Pc Pc Pc Pw Pr Pc  Absolute Potential: MCFPD; n 75/1391  Absolute Potential: MCFPD; n 75/1391  ADDRESS 4051 W Breaday Familiates McFPD;	No.	(24-Hou	r) \sqrt{}	h <sub>w</sub> p <sub>f</sub>	psia		cor	Factor F <sub>g</sub>	L		=
PRESSURE CALCULATIONS   PRES	$\frac{1}{2}$			<del></del>							
PRESSURE CALCUIATIONS  as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Pc 1119 Pc 1252  No. Pw Pt (psia) Pt FcQ (FcQ)2 (FcQ)2 Pw Pc-Pw Pv Pc Pc Pw Pv Pc Pc Pv Pv Pc Pc Pv Pv Pc Pc Pv Pv Pv Pc Pc Pv	3。	14.1605			176	1.006	18	9608	1.01	9	2462
PRESSURE CALCULATIONS  as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Pc 1119 Pc 1252  No. Pw Pt (psia) Pt FcQ (FcQ) <sup>2</sup> (FcQ) <sup>2</sup> Pw <sup>2</sup> Pc-Pw Pw Pc Pc  Pt (psia) A5.72 2000 A22 A33 799 Pw Pc  Absolute Potential: MCFPD; n 75/1.391  COMPANY Partic Northwest Pipeline Corp.  AUDRESS A05: W Product Research Research  NITNESSED A Remarks  ONL CON. COM.	4. 5.	<del></del>				<del></del>					
Pt (psia)	ravit	ty of Liqui	d Hydroca	rbons		cf/bbl.		Speci Speci	fic Gravi	ty_Flow	ving Fluid
Absolute Potential:  Absolute Potential:  ADDRESS  ADDRESS  AGENT and TITLE  WITNESSED  COMPANY  L. M. Oil Concervation Complexion  REMARKS  OIL CON. COM.	No.		Pt <sup>2</sup>	$F_{\mathbf{c}}^{\mathbf{Q}}$	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>0</sub>	Q) <sup>2</sup> e-s)	P <sub>w</sub> 2	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>		
Absolute Potential:  Absolute Potential:  COMPANY  Pacific Northwest Pipeline Corp.  ADDRESS  AGENT and TITLE  VITNESSED  A R. Kendrick  COMPANY  M. Oll Concervation Completion  REMARKS  OIL CON. COM.	1. 2.										
Absolute Potential:  Absolute Potential:  COMPANY  Pacific Northwest Pipeline Corp.  ADDRESS  AGENT and TITLE  VITNESSED  A. R. Kendrick  COMPANY  M. Oll Concervation Completion  REMARKS  Oll CON. COM.	3. j	176	31.0	45.72	2090	622		13	799	+	
ADDRESS AGENT and TITLE WITNESSED COMPANY  L. M. Oil Conservation Condenses REMARKS  COMPANY  REMARKS  COMPANY	5.										
ADDRESS AGENT and TITLE VITNESSED A R. Kendrick COMPANY  M. M. Oll Conservation Completion REMARKS  OIL CON. COM.	Absol	lute Potent	ial:	3,425				1.391	<del></del>	ا المانية	y and the state of
AGENT and TITLE C. R. Megner - Well Test Engineer WITNESSED A. R. Kendrick COMPANY M. M. Oll Conservation Completion REMARKS OIL CON. COM.				V. Bros	day. Pa	reille Ci	New New	tico		Zat	FIVE
COMPANY I. N. Oll Conservation Company REMARKS OIL CON. COM.	AGEN'	r and TITLE	C. R	. Hegner	- Well	fact Ingl	DOCK			K	PLIAID /
REMARKS OIL CON. COM.	COMPA MTI'NI	ESSED				na Carrel e	eien			API	र 8 । । । । ।
	- OI II I								<del></del>	OIL C	ON. COM.

## INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

## NOMENCLATURE

- Q I Actual rate of flow at end of flow period at W. H. working pressure ( $P_{\rm W}$ ). MCF/da. @ 15.025 psia and 600 F.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwT Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- $P_t$  Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mbox{\scriptsize W}}\mbox{\scriptsize I}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I Slope of back pressure curve.

Note: If  $P_{\mathbf{W}}$  cannot be taken because of manner of completion or condition of well, then  $P_{\mathbf{W}}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\mathbf{t}}$ .

## DRILLING DEPARTMENT

2 0 173 1000 2148 49 30 169 993 2145 50 31 0 164 988 2144 51				COMPANY Morthwest Production Corp.				
SHUT IN PRESSURE (PSIG): TUBING 1107 CASING 1039 S. I. PERIOD 7 DAYS  SIZE BLOW NIPPLE 3/4" Chekd (Bureau of Mines)  FLOW THROUGH NV WORKING PRESSURES FROM DR DAYS  HOURS MINUTES PRESSURE 15.025 PSIA & 60°F PRESSURE (PSIG) TEMP  15 200 1036 2142  16 30 201 1033 2148 48  1 0 192 1019 2148 49  1 0 192 1019 2148 49  2 0 173 1000 2148 49  2 0 173 1000 2148 49  2 0 173 1000 2148 49  3 0 169 993 2148 59  3 0 164 988 2144 51  START AT 10:10 gam END TEST AT 1:10 pm				LEASE	nge	_ WELL NO	2-5	
START AT	SHUT IN PRESSURE	(PSIG): TUBING	MV 1	PC BK 2	104			
TIME NO Q (MCFD) WELLHEAD WORKING PRESSURE 15.025 PSIA & 60°F PRESSURE (PSIG) TEMP  15 200 1036 2142								
15   200   1036   2142	FLOW THROUGH	MA	PC	WORI	KING PRESSURES	FROM	<u>-</u>	
30 201 1035 2147  45 200 1028 2148 48  1 0 192 1019 2148 49  2 0 173 1000 2148 49  2 0 173 1000 2148 59  3 0 169 993 2145 50  3 0 164 988 2144 51  START AT 10:10 pm	TIME HOURS MINUTES	PRESSURE	Q (MCFD) 15.025 PSIA & 6001	WELLHEA PRESSUI	AD WORKING RE (PSIG)	TEMP		
1   0   192   1019   2148   49     30   182   1008   2148   49     2   0   173   1000   2148   45     30   169   993   2145   30     3   0   164   988   2144   51     START AT   10:10 pm   END TEST AT   1:10 pm			1036 1035		21 6 7			
2 0 173 1000 2148 49 30 169 993 2145 50 3 0 164 988 2144 51  START AT 10:10 pm END TEST AT 1:10 pm	1 0	200 192	1028 1019		2148	49		
3 0 164 988 2144 51 	2 0	173	1000		2148	<del>49</del> <del>50</del>		
					2144			
	START AT	10:10 pm		END TEST	AT 1:	10 pm		
						· · · · · · · · · · · · · · · · · · ·		

TESTED BY C. R. Wagner
Witness A. R. Kendrick - OCC

OIL CONSERVATION COMMISSION						
AZTEC DISTRICT OFFICE						
No. Copies Received						
DISTRIBUTION						
	NO. FURNISHED					
Operator						
Santa Fe	/					
Proration Office						
State Land Office	-					
⊖ S. G S.						
fransporter	-					
File	1_/_	1 6000				
		}				