

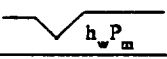
Submit in duplicate to appropriate district office See Rule 401 & Rule 1122

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-122 Revised 4-1-91

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator <b>Meridian Oil, Inc.</b>						Lease or Unit Name <b>Rhodes B Federal</b>									
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special						Test Date <b>11-3-95</b>			Well No. <b>2</b>						
Completion Date <b>10-30-95</b>			Total Depth <b>3150</b>			Plug Back TD <b>3135</b>			Elevation <b>2995</b>						
Csg. Size <b>4 1/2</b>		Wt. <b>11.6</b>		d <b>3150</b>		Perforations: From: <b>2925</b> To: <b>3098</b>			Unit Ltr. - Sec. - TWP - Rge. <b>K 26 26 37</b>						
Tbg. Size <b>2-3/8</b>		Wt. <b>4.7</b>		d <b>1.995</b>		Perforations: From: <b>OPEN</b> To: <b>END</b>			County <b>Lea</b>						
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <b>Single</b>						Packer Set At <b>None</b>			Formation <b>Yates 7R</b>						
Producing Thru Tbg		Reservoir Temp. °F <b>91° @ 2878</b>		Mean Annual Temp. °F <b>60°</b>		Baro. Press - P <sub>a</sub> <b>13.2</b>			Connection <b>Sid Richardson</b>						
L <b>2878</b>	H <b>2878</b>	Gg <b>.699</b>	% CO <sub>2</sub> <b>6.04</b>	% N <sub>2</sub> <b>1.51</b>	% H <sub>2</sub> S <b>Trace</b>	Prover		Meter Run <b>4"</b>	Taps <b>Flg</b>						
FLOW DATA						TUBING DATA			CASING DATA						
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h <sub>w</sub>	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow				
SI							600		600		24 Hour				
1.	4	X	1.750	19		45	465		527		1 Hour				
2.	4	X	1.750	20		48	430		521		1 Hour				
3.	4	X	1.750	22		51	410		506		1 Hour				
4.	4	X	1.750	22		54	385		500		1 Hour				
5.															
RATE OF FLOW CALCULATIONS															
NO.	COEFFICIENT (24 HOUR)		Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor F <sub>g</sub>	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd								
1.							574								
2.							760								
3.							1.059								
4.							1.246								
5.															
NO.	P <sub>r</sub>	Temp. °R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ratio <b>DRY GAS</b> Mcf/bbl										
1.	.05	505	1.35	.991	A.P. I Gravity of Liquid Hydrocarbons <b>NONE</b> Deg.										
2.	.05	508	1.35	.991	Specific Gravity Separator Gas <b>.699</b> XXXXXXXXXXXX										
3.	.05	511	1.36	.992	Specific Gravity Flowing Fluid <b>XXXXXX</b>										
4.	.05	514	1.37	.992	Critical Pressure * <b>643</b> P.S.I.A. P.S.I.A.										
5.					Critical Temperature * <b>374</b> R R										
P <sub>c</sub> <b>613.2</b> P <sub>c</sub> <sup>2</sup> <b>376.0</b>															
NO.	P <sub>t</sub> <sup>2</sup>	P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.339$ (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.339$										
1.		540.2	291.8	84.2	AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.160$										
2.		534.2	285.4	90.6											
3.		519.2	269.6	106.4											
4.		513.2	263.4	112.6											
5.															
Absolute Open Flow <b>4,160</b> Mcfd @ 15.025			Angle of Slope θ <b>45</b>			Slope, n <b>1.000</b>									
Remarks: <b>*CORRECTED TO 6.04% CO2 &amp; 1.51% N2</b>															
<b>WELL PRODUCED .75 BBLs H2O DURING TEST</b>															
Approved By Division				Conducted By: <b>WEST-TEST, INC.</b>				Calculated By: <b>B.M.</b>				Checked By: <b>B.M.</b>			