

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

OIL CONSERVATION DIVISION

P.O. Box 2088


Santa Fe, New Mexico 87504-2088

30-015-30823

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator <i>Chi Operating Inc.</i>				Lease or Unit Name <i>Midnite Special 191 st Com</i>			
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date <i>1-25-00</i>		Well No. <i>1</i>	
Completion Date <i>12-22-99</i>		Total Depth <i>10,130</i>		Plug Back TD <i>10,000</i>		Elevation <i>3523</i>	
Well Size <i>5 1/2</i>		WT <i>17</i>	u <i>4.892</i>	SE AL <i>10130</i>	Perforations: From: <i>9803</i> To: <i>9884</i>		County <i>Eddy</i>
Well Size <i>2 7/8</i>		WT <i>6.5</i>	u <i>2.441</i>	SE AL <i>9769</i>	Perforations: From: To:		County <i>SE Crow Flats Morrow</i>
Type Well - Single - Braidedhead - G.G. or G.G. Multiple <i>Single</i>				Packer Set At <i>9769</i>		Formation <i>Morrow</i>	
Producing thru Top <i>14.5</i>		Reservoir Temp. °F <i>60°</i>		Mean Annual Temp. °F <i>60°</i>		Baro. Press - P _a <i>13.2</i>	
L <i>9769</i>	H <i>9769</i>	G _g <i>.637</i>	% CO ₂ <i>.536</i>	% N ₂ <i>.483</i>	% H ₂ S <i>0</i>	Prover <i>0</i>	Moist. Pct. <i>4.026</i>
Taps <i>F/G</i>							

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	Orifices X Size	Press. psig.	Diff. h _w	Temp. °F	Press. psig.	Temp. °F	Press. psig.		Temp. °F
5:						2200	N/A	PKR	N/A	
1.	4.026 X 1.750		1393	17.0	88°	2125				60 min
2.	4.026 X 1.750		1441	59.9	88°	2000				60 min
3.	4.026 X 1.750		1568	82.7	88°	1950				60 min
4.	4.026 X 1.750		1663	180.0	88°	1875				60 min
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compress. Factor F _{sc}	Rate of Flow Q, Mscf
1.							1146
2.							2354
3.	GAS VOLUMES TAKEN FROM TOTAL FLOW METER						3768
4.							5227
5.							

NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio	Miscible
1.					N/A	
2.	TOTAL FLOW				N/A	Day
3.					.637	XXXXXXXXXX
4.					N/A	XXXXXX
5.					673	P.S.I.A. P.S.I.A.
					364	R R

P ₁ = 2213.2		P ₂ = 4898.3				
NO.	P ₁ ²	P ₂	P ₂ ²	P ₂ ² - P ₁ ²	1) $\frac{P_2^2}{P_2^2 - P_1^2} = \frac{4.620}{}$	2) $\left[\frac{P_2^2}{P_2^2 - P_1^2} \right]^2 = \frac{4.620}{}$
1.	4571.9	2141.3	4585.0	313.3		
2.	4053.0	2026.9	4108.2	790.0		
3.	3854.2	1998.9	3995.8	902.5		
4.	3565.3	1959.1	3838.0	1060.2		
5.						

Absolute Open Flow 24.149 Mscf @ 15.025 Angle of Slope 45° Slope n 1.000

Remarks: *No liquid made during test

Approved By Division	Conducted By: <i>Pro Well Testing</i>	Calculated By: <i>M.B.</i>	Checked By: <i>B.M.</i>
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