

OIL CONSERVATION DIVISION

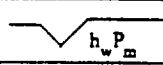
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

dsf

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator <i>Chevron U.S.A.</i>					Lease or Unit Name <i>Bogle Flats Unit</i>				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date <i>8-5-97</i>		Well No. <i>17</i>		
Completion Date <i>4-17-97</i>		Total Depth <i>7505</i>		Plug Back TD <i>7505</i>		Elevation		Unit Ltr. - Sec. - TWP - Rge. <i>9 22-S 23-E</i>	
Csg. Size <i>7"</i>	Wt. <i>26³</i>	d <i>6.276</i>	Set At <i>7105</i>	Perforations: <i>Open Hole</i>			County <i>Eddy</i>		
Tbg. Size <i>3 1/2</i>	Wt. <i>9.3#</i>	d <i>2.992</i>	Set At <i>6630</i>	Perforations: From: To:			Pool <i>Ind. Basin N/PERRY</i>		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <i>Single</i>					Packer Set At <i>6633</i>				
Producing Thru <i>Tbg</i>		Reservoir Temp. °F <i>140.3</i>		Mean Annual Temp. °F <i>60°</i>		Baro. Press. - P _a <i>13.2</i>		Formation <i>Upper Penn</i>	
L <i>6633</i>		H <i>6633</i>		Gg. <i>.6296</i>	% CO ₂ <i>.507</i>	% N ₂ <i>.845</i>	% H ₂ S <i>0</i>	Prover <i>0</i>	Connection <i>Sales</i>
Meter Run <i>4.026</i>		Taps <i>F/G</i>							

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI						<i>650</i>				<i>24 hrs</i>
1.	<i>4.026 X 2.000</i>		<i>852</i>	<i>15"</i>	<i>72°</i>	<i>310</i>	<i>74°</i>	<i>Pkr</i>		<i>24 hrs</i>
2.										
3.										
4.										
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 _{pv}	Rate of Flow Q, Mcfd
1.							
2.		<i>Reading</i>	<i>From</i>	<i>Total Flow Meter</i>			<i>2218</i>
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					<i>N/A</i>	
2.					A.P. I. Gravity of Liquid Hydrocarbons <i>N/a</i>	Deg.
3.					Specific Gravity Separator Gas <i>.6296</i>	<i>XXXXXXXXXX</i>
4.					Specific Gravity Flowing Fluid <i>N/A</i>	<i>XXXXXX</i>
5.					Critical Pressure <i>667</i>	P.S.I.A. <i>P.S.I.A.</i>
					Critical Temperature <i>364</i>	R <i>R</i>

P _c <i>663.2</i> - P _c <i>439.8</i>				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.	<i>104.5</i>	<i>344.3</i>	<i>118.5</i>	<i>321.3</i>
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.369$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.369$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.036$

Absolute Open Flow <i>3.036</i> Mcfd @ 15.025	Angle of Slope Θ <i>45°</i>	Slope, n <i>1.000</i>
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Remarks:

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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