

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
2040 Pacheco St.
Santa Fe, NM 87505

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator <u>V.F. Petroleum Inc.</u>						Lease or Unit Name <u>Merchants "A"</u>					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date <u>02-12-99</u>		Well No. <u>#1</u>			
Completion Date <u>1-15-99</u>		Total Depth <u>13,100'</u>		Plug Back TD <u>8565</u>		Elevation <u>3,614 GL</u>		Unit Ltr. - Sec. - TWP - Rge. <u>L 30 21S 35E</u>			
Csg. Size <u>7 7/8"</u>		Wt. <u>34#</u>		d <u>6.640"</u>		Set At <u>11,000'</u>		Perforations: From: <u>8422'</u> To: <u>8443'</u>		Country <u>Lea</u>	
Tbg. Size <u>2 7/8"</u>		Wt. <u>6.5#</u>		d <u>2.441"</u>		Set At <u>8330'</u>		Perforations: From: _____ To: _____		Pool <u>Widgat</u> <u>Grampa Ridge</u>	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <u>Single</u>						Packer Set At <u>None</u>		Formation <u>Bone Springs</u>			
Producing Thru <u>CSG</u>		Reservoir Temp. °F <u>128</u>		Mean Annual Temp. °F <u>60°</u>		Baro. Press - P _a <u>13.2</u>		Connection <u>Vented</u>			
L <u>8422</u>	H <u>8422</u>	G _g <u>1.025</u>	% CO ₂ <u>20.477</u>	% N ₂ <u>2.685</u>	% H ₂ S _____	Prover _____		Meter Run _____		Taps _____	

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	<u>Dead Weight</u>		<u>713</u>			<u>P.T.</u>		<u>713</u>		<u>72 41</u>
1.	<u>2 x .750</u>		<u>7</u>	<u>11"</u>		<u>P.T.</u>		<u>7</u>		<u>24 41</u>
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.							<u>44</u>
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P. I Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c _____ P _c ² _____					1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^a =$ _____
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²		
1.						
2.						
3.						
4.						
5.						

Absolute Open Flow _____ Mcfd @ 15.025					Angle of Slope θ _____	Slope, n _____
Remarks: <u>Well Produced 6.00 BBLS H₂O ON 24 Hr test.</u>						
<u>* Tested with 2" x .750 (DWT) (meter 0-100 inch)</u>						

Approved By Division _____	Conducted By: <u>Metering Testing</u>	Calculated By: <u>T.B.</u>	Checked By: <u>T.B.</u>
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