

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator <u>Texaco</u>					Lease or Unit Name <u>New Mexico DE State</u>				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date <u>3/27/97</u>		Well No. <u>3</u>		
Completion Date <u>1/26/97</u>		Total Depth <u>7000</u>		Plug Back TD <u>7000</u>		Elevation <u>4059</u>		Unit Ltr. - Sec. - TWP - Rgc. <u>G 32 215 23-E</u>	
Csg. Size <u>7"</u>	Wt. <u>26#</u>	d <u>6.276</u>	Set At <u>6920</u>	Perforations: From: <u>OH 6920</u> To: <u>6810</u>			Country <u>Eddy</u>		
Tbg. Size <u>3 1/2</u>	Wt. <u>9.2</u>	d <u>2.992</u>	Set At <u>6807</u>	Perforations: From: _____ To: _____			Pool <u>Indian Basin 4/Penn</u>		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <u>Single</u>				Packer Set At <u>6907</u>		Formation <u>Upper Penn</u>			
Producing Thru Tbg		Reservoir Temp. °F <u>143.2</u>		Mean Annual Temp. °F <u>60°</u>		Baro. Press - P _a <u>13.2</u>		Connection <u>Sales</u>	
L <u>6920</u>	H <u>6920</u>	Gg <u>.625</u>	% CO ₂ <u>.82</u>	% N ₂ <u>.61</u>	% H ₂ S <u>0</u>	Prover <u>0</u>	Meter Run <u>4.026</u>	Taps <u>F/G</u>	

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>609</u>				
1.	<u>4.026 x 1.500</u>		<u>393.4</u>	<u>90</u>		<u>415.1</u>				<u>24 hrs.</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 Fg	Supercompressibility Factor, F _{sp}	Rate of Flow Q, Mcfd
1.							
2.	<u>Volume Takes from total flow meter</u>						<u>2.797</u>
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl
1.					<u>399.571</u>	
2.					A.P. I Gravity of Liquid Hydrocarbons <u>50.1</u>	Deg.
3.					Specific Gravity Separator Gas <u>.633</u>	<u>XXXXXXXXXX</u>
4.					Specific Gravity Flowing Fluid <u>N/A</u>	<u>XXXXXX</u>
5.					Critical Pressure <u>674</u>	P.S.I.A. <u>673</u> P.S.I.A.
					Critical Temperature <u>361</u>	R <u>364</u> R

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.	<u>154.8</u>	<u>421.7</u>	<u>177.9</u>	<u>193.0</u>
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.921}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{5.374}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.921}$

Absolute Open Flow	<u>5.374</u>	Mcf/d @ 15.025	Angle of Slope @ <u>45°</u>	Slope, n <u>1.000</u>
--------------------	--------------	----------------	-----------------------------	-----------------------

Remarks: *Well on Compressor will not break line Press.

*Well made 7 BBLs of Condensate 50.1 API Gravity.

Approved By Division	Conducted By: <u>Pro Well Tester</u>	Calculated By: <u>MB</u>	Checked By: <u>BM</u>
----------------------	---	-----------------------------	--------------------------