

MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test 4-POINT ☒ Initial ☐ Annual ☐ Special						Test Date 2-15-84	
Company H.L. BROWN				Connection TO AIR			
Pool UNDESIGNATED				Formation MORROW			
Completion Date		Total Depth 13380		Plug Back To 13293		Elevation STATE "32"	
Casing Size 7.625	Wt. 26.4	d 6.969	Set At 13293	Perforations: From 12132 To 12170		Well No. #1	
Tub. Size 2.875	Wt. 10.7	d 2.091	Set At 11999	Perforations: From 0 To 0		Unit Sec. Twp. Rge. P 32 15S 32E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 11999	
Producing thru TUBING		Reservoir Temp. °F 168 @ 12151		Mean Annual Temp. °F 60.0		Enro. Press. - P _a 13.2	
State NEW MEXICO		County LEA					
L 12151	H 12151	Gg 0.719	% CO ₂ 0.35	% N ₂ 1.23	% H ₂ S 0	Prover 0	Motor Run 4.0
Taps FLANGE							

FLOW DATA						TUBING DATA		B.H.P. DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
51							2211.		3742.	
1.	4.03 X 1.000			340.	5.0	85.	1987.		3502.	3/64
2.	4.03 X 1.000			350.	10.0	83.	1856.		3326.	6/64
3.	4.03 X 1.000			355.	18.0	81.	1701.		3075.	8/64
4.	4.03 X 1.000			360.	36.0	78.	1507.		2717.	10/64
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super. Compres. Factor, Fpv	Rate of Flow Q, Mcfd
1	4.75	42.02	353.2	0.9768	1.1793	1.0367	239.
2	4.75	60.27	363.2	0.9786	1.1793	1.0384	343.
3	4.75	81.41	368.2	0.9804	1.1793	1.0395	465.
4	4.75	115.91	373.2	0.9831	1.1793	1.0410	665.
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.53	545.	1.39	0.930	15.6 Mcf/bbl.	62.0 Deg.	0.719	XXXXXX	666.	392.
2	0.55	543.	1.39	0.927			XXXXX	0.872	P.S.I.A. 658.	P.S.I.A. 440.
3	0.55	541.	1.38	0.925						
4	0.56	538.	1.37	0.923						
5										

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.9076$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.7129$
1	12357.	2078.	4318.	778.		
2	11150.	1953.	3815.	1280.		
3	9537.	1782.	3177.	1919.		
4	7454.	1557.	2424.	2671.		
5						

Absolute Open Flow <u>1139.</u> Mcfd @ 15.025 Angle of Slope <u>50.2</u> Slope, n <u>0.833</u>			
Remarks: <u>BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.</u>			
Approved By Commission:		Conducted By:	
Calculated By:		Checked By:	

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G.C.D.
HOMES OFFICE