

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-20-79		MAR 6 1979	
Company MOR OIL CO				Connection AIR		D.C.C.	
Pool H. 0.5-5A				Formation PENROSE		Well ARTEBIA, OFFICE	
Completion Date 2-2-79		Total Depth 3834		Plug Back TD 3585		Elevation 3829.1 GL	
Csg. Size 1 1/2		Wt. 9.5		Set At 3824		Performances: From 2504 To 2516	
Trq. Size 2 3/8		Wt. J 55		Set At 2443		Performances: From To	
Type Well - Single - Branchhead - G.G. or G.O. Multiple SINGLE GAS WELL				Packer Set At NONE		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 60 ° PERFS		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L 2443		H 2443		G _g .814		% CO ₂ .0498	
				% N ₂ 46.925		% H ₂ S 0	
				Prover 2"		Meter Run Taps	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							732	60°	742		72 Hr.
1.	2	X	1"	2			695	60°	707		1 Hr.
2.	2	X	1"	9			620	60°	634		1 Hr.
3.	2	X	1"	13			520	60°	575		1 Hr.
4.	2	X	1"	14			420	60°	515		1 Hr.
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, Mscf
1	* 183.2 mcf		2.	1.0	.859	N/A	157.36
2	* 417.1 mcf		9.	1.0	.859	N/A	358.28
3	* 520.0 mcf		13.	1.0	.859	N/A	446.68
4	* 544.3 mcf		14.	1.0	.859	N/A	467.55
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/Std.
1.	.026	520	1.73	N/A	NO	
2.	.038	520	1.73	N/A	A.P.I. Gravity of Liquid Hydrocarbons	
3.	.062	520	1.73	N/A	Specific Gravity Separator Gas .814	XXXXXXX
4.	.064	520	1.73	N/A	Specific Gravity Flowing Fluid XXXXX	
5.					Critical Pressure 665-61-19 P.S.I.A.	585 P.S.I.A.
					Critical Temperature 428-98-30 °R	300 °R

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²
1		720.2	518.68	51.64
2		647.2	418.86	151.46
3		588.2	345.97	224.35
4		528.2	278.99	291.33
5				

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 2.54$

AOI = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 706.$

(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.58$

Absolute Open Flow	706.	Mcf @ 15.025	Angle of Slope @	58.3°	Slope, n	.622
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Remarks: * RATES CALCULATED FROM MANUAL FOR GAS - OIL RATIO - STATE OF NEW MEXICO.
2 FACTOR NOT AVAILABLE FOR SMALL (LOW) PRESSURE

Approved By Consultant	Conducted By LARRY DAVIS	Calculated By LARRY DAVIS	Checked By:
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