

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

Form C-122
Revised 9-1-65

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C-122

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-19-73		SEP 25 1973	
Company MOBIL OIL CORP.					Connection		O. C. C. ARTESIA, OFFICE	
Pool Edwards BURTON FLAT					Formation MORROW		Unit 320	
Completion Date 9-15-73			Total Depth 11,640'		Plug Back TD —		Elevation 3275 G.L.	
Csg. Size 7"			Wt. 23.26 lb/ft		Set At 6.366'		Perforations: From 11234' To 11548'	
Thg. Size 2 7/8"			Wt. N-80, 6.5 lb/ft		Set At 11173'		Perforations: From — To —	
Type Well — Single — Bradenhead — G.G. or G.O. Multiple SINGLE					Packer Set At 11150'		County EDDY	
Producing Thru TUBING			Reservoir Temp. °F 176° @ 11640'		Mean Annual Temp. °F 60°		Baro. Press. — P _a 13.2	
L 11173'		H 11391		G _g 0.595	% CO ₂ 0.99	% N ₂ 0.89	% H ₂ S —	Prover —
								Meter Run 4"
								Taps FLANGE

FLOW DATA						TUBING DATA		CASING 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.		Temp. °F
SI							3785		2641	—	48 Hr. 51.
1.	4 X	1.5		630	21	74	3420	79	2641		1 Hr.
2.	4 X	1.5		630	43	81	3222	78	2641		1 Hr.
3.	4 X	1.5		643	62	77	3047	76	2641		1 Hr.
4.	4 X	1.5		660	92	76	2714	75	2641		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, Mcfd
1	10.84	116.2	643.2	.9868	1.296	1.041	1677
2	10.84	166.3	643.2	.9804	1.296	1.047	2398
3	10.84	201.7	656.2	.9840	1.296	1.048	2922
4	10.84	248.86	673.2	.9850	1.296	1.052	3623
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.954	534	1.508	.923	—	—
2	.954	541	1.528	.912	—	—
3	.974	537	1.517	.910	—	—
4	.999	536	1.514	.904	—	—
5.						

NO.	P _r ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$
1	11785	3437.7	11818	2608.3	2.907	2.5117
2	10465	3245.3	10532	3894.3		
3	9364	3076.3	9464	4462.3		
4	7437	2753.7	7583	6843.3		
5.						

Absolute Open Flow 7339 Mcfd @ 15.025		Angle of Slope 49° 13'	Slope, n 0.863
Remarks:			
Approved By Commission: Conducted By: T.D. NEWTON A.R. ALAMEDDINE W.H. BRADFELD Calculated By: W.H. BRADFELD Checked By: T.D. NEWTON A.R. ALAMEDDINE			

posited
9-28-73
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