

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

Form C-122
Revised 9-1-68

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3-23-71				
Company MOBIL OIL CORPORATION				Connection NONE					
Pool VACUUM				Formation MORROW GAS				Unit 320	
Completion Date 3-18-71		Total Depth 12180'		Plug Back TD 12124'		Elevation 4044' KB		Farm or Lease Name BRIDGES STATE	
Csg. Size 7"	Wt. 26	d 6.276	Set At 12178	Perforations: From 11853' To 11881'			Well No. 151		
Tbg. Size 2 3/8"	Wt. 4.7	d 1.995	Set At 11811	Perforations: From OPEN To ENDED			Unit F	Sec. Twp. Rgn. 23 17 34	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 11765'		County LEA			
Producing Thru TUBING		Reservoir Temp. °F 158° 11700'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 11867'	H -	G _g 0.649	% CO ₂ 0.29	% N ₂ 0.99	% H ₂ S 0.00	Prover	Meter Run X	Taps F	

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. DW	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							4005		PACKER		44.0 Hrs
1.	6 12/64	1	1 1/2	840	4	78	3530	80			1.5
2.	6 14/64	1	1 1/2	840	9	70	3285	80			1.0
3.	6 17/64	1	1 1/2	870	14	64	2930	80			1.0
4.	6 19/64	1	1 1/2	870	19	68	2660	83			1.0
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	10.73	58.42	853.2	0.9831	1.241	1.075	822.1
2	10.73	87.63	853.2	0.9905	1.241	1.079	1247.1
3	10.73	111.21	883.2	0.9962	1.241	1.087	1603.7
4	10.73	129.55	883.2	0.9924	1.241	1.084	1855.8
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	1.27	538	1.46	0.865	5284	
2.	1.27	530	1.44	0.859		
3.	1.31	524	1.42	0.846		
4.	1.31	528	1.43	0.851		
5.						

A.P.I. Gravity of Liquid Hydrocarbons 53.8					Specific Gravity Separator Gas 0.649		XXXXXXX	
Specific Gravity Flowing Fluid XXXXX					Critical Pressure 673		P.S.I.A.	
Critical Temperature 368							R	

NO.	P _r ²	P _w *	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.446$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.84$
1	-	5440.2	29595.8	5334.7		
2	-	5194.2	26979.7	7950.8		
3	-	4826.2	23292.2	11638.3		
4	-	4544.2	20649.8	14280.7		
5						

Absolute Open Flow 3450			Mcf/d @ 15.025		Angle of Slope @ 55° 42'		Slope, n 0.682		
Remarks: * BHP @ (-7823') 11867' USED FOR PRESSURE CALCULATIONS									
SURFACE EQUIPMENT PRESSURE TESTED TO 7000# PSIG									
Approved By Commission:			Conducted By: COLEMAN PET. ENG.			Calculated By: JOE A. COLEMAN		Checked By: JOE A. COLEMAN	

RECEIVED

APR 5 1971

**OIL CONSERVATION COMM.
HOBBS, N. M.**