

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

C-122
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Form C-122
Revised 9-1-65

RECEIVED

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Type Test ☒ Initial ☐ Annual		Date 8-15-75		Well No. 3078 KB	
Company Mobil Oil Corp.		Connection None		O. C. C. ARTESIA, OFFICE	
Pool Wildcat Wolfcamp		Formation Wolfcamp		Unit	
Completion Date 8-10-75		Total Depth 13,840		Perforations 12,638	
Csg. Size 5 1/2 (L)		Set At 20		Perforations 11,560	
Tbg. Size 2 7/8"		Set At 6.4		Perforations 11,582	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set 11,460		Farm or Lease Name Corral Draw Unit	
Producing Thru Tubing		Reservoir Temp. °F 170 @ 11,600		Mean Annual Temp. °F 60	
L 11,460		H 11,571		Gg 0.756	
Gg 0.756		% CO ₂ 0.11		% N ₂ 2.0	
Prover 4" x 2"		Meter Run Flange		Taps	

FLOW 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
1.	4	x	2.0	610	9.0	78.0	5011.0	60	1200.0	60.0
2.	4	x	2.0	650	21.0	84.0	4565.0	60	1200.0	60.0
3.	4	x	2.0	660	42.0	81.0	3820.0	60	1200.0	60.0
4.	4	x	2.0	760	80.0	77.0	2615.0	60	1200.0	60.0
5.										

RATE OF FLOW CALCULATION							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor G	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	19.81	74.89	623.2	0.9831	1.1501	1.0800	1811.7
2.	19.81	118.01	663.2	0.9776	1.1501	1.0822	2845.1
3.	19.81	168.14	673.2	0.9803	1.1501	1.0854	4076.7
4.	19.81	248.70	773.2	0.9840	1.1501	1.1028	6149.8
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid	Specific Gravity Separator	Specific Gravity Flowing	Critical Pressure	Critical Temperature
1.	0.93	538.0	1.32	0.857	1440	62.4	0.756	0.757	664	405
2.	0.99	544.0	1.34	0.853						
3.	1.01	541.0	1.33	0.848						
4.	1.16	537.0	1.32	0.822						
5.										

NO.	P _t ²	P _w	F _w ²	P _c ² - F _w ²	(1) $\frac{P_c^2}{P_c^2 - F_w^2}$	(2) $\left[\frac{F_c^2}{P_c^2 - F_w^2} \right]^n$
1.	25242.5	5030.0	25300.9	4611.2	3.392	2.317
2.	20959.9	4592.8	21094.0	8818.1		
3.	14693.4	3814.6	14935.6	14976.5		
4.	6907.4	2708.3	7335.0	22577.0		
5.						

Absolute Open Flow 6577		Slope, n 0.688	
Remarks: 4th point disregarded for GAOE. Total volumes during test are 620 MCF on 4 point and 7970 MCF during 68 hour extended flow test for evaluation of new formation. Special test verbally approved by Gressett and Knauft.			
Approved By Commission:	Conducted By: W. H. Bradfield	Checked By: K. W. Lewis	Checked By: J. C. Gordon, Jr