

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5/28/74		JUN 13 1974	
Company MOBIL OIL CORP				Connection —		O. C. C. ARTESIA, OFFICE	
Pool SOUTH CARLSBAD				Formation ATOKA		Unit 320	
Completion Date 5-6-74		Total Depth 12,300'		Plug Back TD 12,150		Elevation 3113 G.L.	
Farm or Lease Name MAUDE RICKMAN COMM.				Well No. 1			
Csg. Size 7"	Wt. 26 1/4	d 6.276	Set At 12,300'	Perforations: From 11243' To 11424'			
Tbg. Size 2 3/8"	Wt. 4.6 1/4	d 1.995	Set At 11,218	Perforations: From To		Unit Sec. Twp. Rge. L 3, 23-S, 27-E	
Type Well — Single — Bradenhead — G.G. or G.O. Multiple DUAL				Packer Set At 11,217		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 195° 12290		Mean Annual Temp. °F 60°		Baro. Press. — P _a 13.2	
State NEW MEXICO							
L 11,218	H 11,333	G _g 0.592	% CO ₂ 0.8	% N ₂ 1.0	% 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	
1.							4000	—	—	—	120 HRs
2.	4 X 1.5			610	12	62	3600	60	—	—	1 HR
3.	4 X 1.5			630	25	68	3000	60	—	—	1 HR
4.	4 X 1.5			640	39	68	2100	60	—	—	1 HR
5.	4 X 1.5			630	25	73	1000	60	—	—	1 HR

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcid
1.	10.84	86.47	623.20	0.9980	1.2996	1.0503	1277.2
2.	10.84	126.80	643.20	0.9923	1.2996	1.0499	1261.4
3.	10.84	159.60	653.20	0.9923	1.2996	1.0507	2344.7
4.	10.84	126.80	643.20	0.9877	1.2996	1.0481	1849.6

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Mci/cbl.
1.	0.92	522	1.49	0.906	0	
2.	0.95	528	1.50	0.907	0	
3.	0.96	528	1.50	0.905		
4.	0.95	533	1.52	0.910		

NO.	P _t	P _w	R _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{P_c^2 - R_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n =$
1.	13055.2	3620.9	13111.2	2994.5	5.378	2.049
2.	9079.5	3031.5	9190.5	6915.2		
3.	4465.6	2151.6	4629.3	11476.3		
4.	1026.5	1065.3	1135.0	14970.7		

Absolute Open Flow 2617.3 Mcid @ 15.025				Angle of Slope @ 66° 40'		Slope, n 0.426	
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Remarks: 11 IS LESS THAN .5 BECAUSE OF AVERAGE OF SLOPE			
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Approved By Commission:	Conducted By: A.R. ALAMEDDINE	Calculated By: K.W. LEWIS	Checked By: A.R. ALAMEDDINE
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