

N MEXICO OIL CONSERVATION COMM ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4/29/78	
Company Adobe Oil & Gas Corporation				Connection None <i>Austin mississippian R-5781</i>	
Pool Undesignated				Formation <i>Mississippian</i> Morrow Lime	
Completion Date April 29, 1978		Total Depth 13783'		Plug Back TD 13687'	
Csg. Size 5 1/2"		Wt. 17.0		Elevation 3947	
20.0		4.892		3962' KB	
4.778		Set At 13783'		Form or Lease Name State 16	
Trg. Size 2 3/8"		Wt. 4.60		Well No. 1	
1.995		Set At 13081'		Perforations: From 13199' To 13261'	
				Perforations: Open Ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 13067'	
Producing Thru TBG				State New Mexico	
Reservoir Temp. °F 230° 13050'		Mean Annual Temp. °F 60		Baro. Press. - P ₀ 13.2	
L 13230'	H -	G _g 0.654	% CO ₂ 1.39	% N ₂ 1.01	% H ₂ S 0.00
Prover X			Meter Run 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. DWT	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							2840		Packer		
1.	4 7/64"	1.250	210	23	100	2490	100				1.25
2.	4 8/64"	1.250	210	33	98	2405	87				0.50
3.	4 9/64"	1.250	210	43	91	2315	87				0.50
4.	4 10/64"	1.250	210	64	85	2215	87				0.50
5.											

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, Mgd
1	7.469	71.62	223.2	0.9636	1.237	1.016	647.8
2	7.469	85.80	223.2	0.9653	1.237	1.016	777.5
3	7.469	97.92	223.2	0.9715	1.237	1.017	893.9
4	7.469	119.47	223.2	0.9768	1.237	1.020	1099.8
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NO.	F _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.33	560	1.53	0.968	77.733	54.7	0.654	XXXXXX	675	366
2	0.33	558	1.52	0.968				XXXXXX		
3	0.33	551	1.51	0.967						
4	0.33	545	1.49	0.961						
5										

P _c 4189.2 P _c ² 17549.4		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.971$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.49$	
NO.	F _t	P _w *	P _w ²	P _c ² - P _w ²	
1		3833.2	14693.4	2856.0	
2		3693.2	13639.7	3909.7	
3		3589.2	12882.4	4667.0	
4		3412.2	11643.1	5906.3	
5					

Absolute Open Flow 2740		Angle of Slope 50° 4'		Slope, n 0.837	
Remarks: * Bottom Hole Pressure @ (-9268) 13230' Used for Pressure Calculations.					
Approved By Commission:		Conducted By: JARREL SERVICES, INC.		Calculated By: Joe A. Coleman	
				Checked By: Joe A. Coleman	

