

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

file
Form C-122
Revised 9-1-60
C-122 file

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-5-80		SPUD DATE: N/A	
Company Morris R. Antweil				Connection To Air			
Pool Benton flat narrow				Formation Morrow		Unit 4	
Completion Date 2-5-80		Total Depth 11,378		Plug back TD 11,206		Elevation 3386 ft.	
Orif. Size 5 1/2	Wt. 20	d 11,206	Set At 11,206	Perforations: From 11121 To 11124		Well No. 1	
Trq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11,069	Perforations: From open To ended		Unit Sec. Twp. Rge. L 24 19 27	
Type well - Single - Broadhead - G.G. or G.O. Multiple Single				Packer Set At 11,068		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 185 @ 11,069		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 11,069	H 11,069	G _g .634	% CO ₂ 2.35	% N ₂ .34	% H ₂ S	Prover 6" Positive Choke	Meter Run Taps
FLOW DATA				TUBING DATA		CASING DATA	
NO.	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F
51	XXXX	6" Positive Ck.				2450	
1.		1/8	2275		10	2275	
2.		3/16	1997		7	1997	
3.		7/32	1715		7	1715	
4.		1/4	1692		17	1692	
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	.2618		2288.2	1.052	1.256	1.272	1007
2	.6101		2010.2	1.055	1.256	1.293	2101
3	.8419		1728.2	1.055	1.256	1.289	2485
4	1.112		1705.2	1.044	1.256	1.254	3118
5							
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>None</u> Mcf/Std.		
1	3.42	470	1.28	.618	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
2	3.00	467	1.27	.598	Specific Gravity Separator Gas _____ X X X X X X X X		
3	2.58	467	1.27	.602	Specific Gravity Flowing Fluid _____ X X X X X		
4	2.55	477	1.30	.636	Critical Pressure <u>670</u> P.S.I.A. _____ P.S.I.A.		
5					Critical Temperature <u>368</u> °R _____ °R		
P _c 2463.2 P _c ² 6067.4					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.136$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.945$		
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	ADP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6.066$		
1		2295.4	5268.8	798.6			
2		2045.5	4184.2	1883.2			
3		1785.8	3189.2	2878.2			
4		1796.3	3226.6	2840.8			
5							
Absolute Open Flow <u>6,066</u> Mcfd @ 15.625					Angle of Slope <u>48.750</u>		Slope, n <u>.877</u>
Remarks: <u>Was making small amount of fluid during each rate (unable to measure).</u>							
Approved By Commission:		Conducted By: McMurrain & Reston		Calculated By: McMurrain & Reston		Checked By:	