

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10-27-77		SPUD DATE NOT AVAILABLE	
Company Morris R. Antweil		Connection None		RECEIVED NOV 9 1977	
Pool Undesignated		Formation Atoka			
Completion Date 10-27-77		Total Depth 9034		Plug Back TD 8980	
Csg. Size 5 1/2		Set At 9034		Perforations: From 8602 To 8618	
Vib. Size 2 3/8		Set At 8550		Perforations: From open To end	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packoff Set At 8550		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 160 @ 8550		Mean Annual Temp. °F 13.2	
L 8550		H 8550		Gg .675	
Gg .675		% CO ₂		% N ₂	
% H ₂ S		Prover		Meter Run	
Taps		2			

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
SI							2292	Shut-in			72 hrs.
1.	2	x	7/8	2142	40	-25	2142				1 hr.
2.	2	x	7/8	2020	59	-22	2020				1 hr.
3.	2	x	7/8	1850	80	-12	1850				1 hr.
4.	2	x	7/8	1670	97	-5	1670				1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mhd
1	13.00		53.2	1.093	1.217	Nil	920
2	13.00		72.2	1.090	1.217	Nil	1245
3	13.00		93.2	1.077	1.217	Nil	1588
4	13.00		110.2	1.069	1.217	Nil	1864
5							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/Unit
1	.08	435	1.14	Nil	A.P.I. Gravity of Liquid Hydrocarbons	
2	.11	438	1.15	Nil	Specific Gravity Separator Gas	
3	.14	448	1.17	Nil	Specific Gravity Flowing Fluid	
4	.16	455	1.19	Nil	Critical Pressure	
5					Critical Temperature	

P _c 2305.2 P _w 5313.9		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.219$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.729$	
NO.	P _f	P _w	P _w ²	P _c ² - P _w ²	
1		2160.4	4667.3	646.6	
2		2042.9	4173.4	1140.5	
3		1880.0	3534.4	1779.5	
4		1708.7	2919.7	2394.2	
5					

Absolute Open Flow 3.223 Mhd @ 15.025		Angle of Slope 55.5		Slope, n .687	
Remarks:					
Approved By Commission:		Conducted By: Reginald E. Reston		Calculated By: Reginald E. Reston	
				Checked By:	