

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

Form C-122
 Revised 9-1-65

Type Test 4-POINT ☒ Initial ☐ Annual ☐ Special				Test Date 3-13-86	
Company MOROIL COMPANY, INC.			Connection AIR NEW WELL		
Pool SEVEN RIVERS			Formation SEVEN RIVERS		Unit
Completion Date 3-9-86		Total Depth 4600'		Plug Back To 3920'	Elevation 3692'
Farm or Lease Name STIVASON FEDERAL					
Ch. Size 5.500	Wt. 15.5	d 4.950	Set At 4600	Perforations: From 3901 To 3908	
Th. Size 2.875	Wt. 6.5	d 2.441	Set At 3862	Perforations: From To	
Type Well - Single - Bradenhead - G.O. or G.O. Multiple SINGLE				Factor Set At 3862	
Producing Thru TUBING		Reservoir Temp. °F 105 @ 3904		Mean Annual Temp. °F 60.0	
				Baro. Press. - P _a	
State NEW MEXICO					
L 3904	H 3904	G _g 0.682	% CO ₂ 0.06	% N ₂ 7.10	% H ₂ S 0
Prover 0		Motor Run 3.1		Taps FLNGE	

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							940	60	1064	105	72.0
1.	3.07 X 1.500			100	2.0	60	920	60	983	105	1.0
2.	3.07 X 1.500			80	4.0	60	870	60	930	105	1.0
3.	3.07 X 1.500			80	7.0	60	834	60	898	105	1.0
4.	3.07 X 1.500			80	14.5	60	752	60	820	105	1.0
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, Mcfd
1	11.13	15.05	113.2	1.0000	1.2112	1.0108	205
2	11.13	19.31	93.2	1.0000	1.2112	1.0088	263
3	11.13	25.54	93.2	1.0000	1.2112	1.0088	347
4	11.13	36.76	93.2	1.0000	1.2112	1.0088	500
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	0.17	520	1.43	0.979	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	0.14	520	1.43	0.983	Specific Gravity Separator Gas _____ 0.682
3	0.14	520	1.43	0.983	Specific Gravity Flowing Fluid _____ XXXXX
4	0.14	520	1.43	0.983	Critical Pressure _____ 656 P.S.I.A.
5					Critical Temperature _____ 365 °R

NO.	P _i ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_i^2 - P_w^2} = 2.5176$	(2) $\left[\frac{P_c^2}{P_i^2 - P_w^2} \right]^n = 2.319$
1		895	802	132	AOI = Q $\left[\frac{P_c^2}{P_i^2 - P_w^2} \right]^n = 1116$	
2		848	719	215		
3		820	672	262		
4		750	563	371		
5						

Absolute Open Flow _____ 1116 Mcfd @ 15.025	Angle of Slope @ _____ 49.0	Slope, n _____ 0.870
Remarks: _____		

Approved By Commission: AUG 1	Conducted By: BENNETT & CATHEY	Calculated By: DON BENNETT	Checked By:
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