

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

Form C-122
 Revised 9-1-63

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4-25-85	
Company MORIOLCO				Connection TO AIR NEW WELL			
Pool UD SEVEN RIVERS				Formation SEVEN RIVERS		Unit A	
Completion Date 6-22-84		Total Depth 5200		Plug Back To 3950		Elevation 3195	
Form or Lease Name STIVASON FED		Well No. 1					
Test Size 4.500	Wt. 9.5	d 4.090	Set At 3950	Perforations: From 3909 To 3914		Unit Sec. Twp. Hgt. 33 19S 34E	
Test Size 2.375	Wt. 4.7	d 1.995	Set At 3842	Perforations: From 0 To 0			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 3842		County LEA	
Producing Thru TUBING		Reservoir Temp. °F 114 3911		Mean Annual Temp. °F 60.0		State NEW MEXICO	
L 3911	H 3911	Gg 0.694	% CO ₂ 0.12	% N ₂ 7.49	% H ₂ S 0	Prover 0	Meter Run 3.1
						Taps FLANGE	

FLOW DATA						TUBING DATA		B.H.P. 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.		CHOKE
51							1332.2	114	1500		72.0
1.	3.07 X 1.250		320	8.0	100		1307.2	114	1460	6/64	1.0
2.	3.07 X 1.250		340	20.0	76		1250.2	114	1410	10/64	1.0
3.	3.07 X 1.250		340	46.0	92		1187.2	114	1338	15/64	1.0
4.	3.07 X 1.250		340	90.0	80		1065.2	114	1260	18/64	1.0
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, Mc/d
1	7.58	51.63	333.2	0.9636	1.2004	1.0255	464
2	7.58	84.05	353.2	0.9850	1.2004	1.0322	777
3	7.58	127.46	353.2	0.9706	1.2004	1.0283	1157
4	7.58	178.29	353.2	0.9813	1.2004	1.0312	1641
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.51	560	1.52	0.951	270.2	46.0
2	0.54	536	1.46	0.939		
3	0.54	552	1.50	0.946		
4	0.54	540	1.47	0.940		
5						

NO.	P _t	P _w	P _t ²	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 3.4817$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 2.7469$
1	2170	1309	1714	92			
2	2025	1266	1602	205			
3	1826	1203	1447	359			
4	1621	1135	1288	519			
5							

Absolute Open Flow				4508	Mcf/d @ 15.025	Angle of Slope @	51.0	Slope, n	0.810
Remarks: B.H.P. MEASURED WITH AMERADA PRESSURE ELEMENTS									

Approved By Commission	Conducted By	Calculated By	Checked By
	BENNETT & CATHEY	RICHARD TOWNLEY	