

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

Form C-1
Revised 4-1-63

RECEIVED BY

MAY 3 11985

O. C. D.
ARTESIA OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5/12/85	
Company HNG OIL COMPANY				Connection EL PASO PIPELINE			
Pool White City PENN				Formation PENN			
Completion Date 7/9/84		Total Depth 11875		Plug Back L. 11825		Elevation 3296.6 GR	
Cust. Size 4.500		Wt. 13.5		Set At 11825		Perforations: From 11527 To 11631	
Thq. Size 2.375		Wt. 4.7		Set At 9007		Perforations: From 0 To 0	
Type Well - Single - Bradenhead - G.O. or G.O. Multiple SINGLE						Packor Set At 9007	
Producing Thru TUBING		Reservoir Temp. °F 232 • 11579		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 11579		H 11579		G _g 0.572		Motor Run 4,0	
				% CO ₂ 0.91		% H ₂ S 0	
				% N ₂ 0.61		Provor 0	
						Tape FLANGE	
FLOW DATA				TUBING DATA		BHP DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Duration of Flow
1.	4.03	1.125	355	5.0	99	2634	73.5
2.	4.03	1.125	365	24.0	87	2419	1.0
3.	4.03	1.125	375	44.0	88	2246	2.2
4.	4.03	1.125	390	63.0	85	2097	1.2
5.							1.2
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	6.03	42.91	368.2	0.9645	1.3222	1.0216	337
2	6.03	95.27	378.2	0.9750	1.3222	1.0243	759
3	6.03	130.69	388.2	0.9741	1.3222	1.0247	1040
4	6.03	159.38	403.2	0.9768	1.3222	1.0262	1274
5							
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
1	0.54	559	1.61	0.958	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
2	0.56	547	1.58	0.953	Specific Gravity Separator Gas 0.572 XXXXXXXXXX		
3	0.57	548	1.58	0.952	Specific Gravity Flowing Fluid XXXXXX 0.572		
4	0.60	545	1.57	0.950	Critical Pressure 677 P.S.I.A. 677 P.S.I.A.		
5					Critical Temperature 347 R 347 R		
P _r 2901.9 P _c 8421							
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 2.4395$		
1	12021	2738	7498	923	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.4395$		
2	10280	2527	6386	2035			
3	9043	2368	5606	2814			
4	8021	2229	4969	3452			
5					AOF = Q $\left[\frac{h^2}{P_r^2 - P_w^2} \right]^n = 3108$		
Absolute Open Flow 3108 Mc/d @ 15.025					Angle of Slope 45		Slope, n 1.000
Remarks: NO CHOKE SIZES RAN WITH ACTUATOR ON PRODUCTION UNIT BHP MEASURED WITH AMARADA RPG3# GAUGES							
Approved By Commission		Conducted By BENNETT & CATHEY		Calculated By RICHARD TOWNLEY		Checked By Betty Sildon	