

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7/18/78	
Company H. N. G. Oil Co.		Connection El Paso Natural Gas	
Pool W. Malaga West narrow		Formation Morrow Gas	
Completion Date 7/5/78		Total Depth 12750	
Plug Back TD 12694		Elevation 2997 G.L.	
Csa. Size 4 1/2		Well No. 2	
Wt. 18#		Set At 12,739	
Perforations: From 12450 To 12554		Unit Sec. Twp. Rge. B 9 24S 28E	
Thq. Size 2 7/8		Wt. 6.5#	
Set At 10,108		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 10108	
Seal Assembly		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 189° 12,544'	
Mean Annual Temp. °F 68°		Baro. Press. - P _a 13.2	
State New Mexico			
L 10108		H 10108	
Gg .63		% CO ₂ None	
% N ₂ None		% H ₂ S None	
Prover 6.040		Meter Run Flange	
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
SI			
1.	6"	x	1.250
2.	6"	x	1.250
3.	6"	x	1.250
4.	6"	x	1.250
5.			
TUBING DATA			
NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
1.	4107	70	60 min.
2.	3922	70	60 min.
3.	3679	71	60 min.
4.	3373	72	60 min.
5.	2921	72	60 min.
Casing Data			
NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
1.	Pkr		
2.	Pkr		
3.	Pkr		
4.	Pkr		
5.	Pkr		
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1.	7.405	40.91	223.2
2.	7.405	57.27	298.2
3.	7.405	77.87	433.2
4.	7.405	103.13	433.2
5.			
NO.	P _r	Temp. °R	T _r
1.	.33	554	1.5
2.	.45	547	1.49
3.	.65	538	1.46
4.	.66	528	1.43
5.			
Gas Liquid Hydrocarbon Ratio <u>None</u> Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons <u>None</u> Deg.			
Specific Gravity Separator Gas <u>.63</u> X X X X X X X X			
Specific Gravity Flowing Fluid <u>X X X X X</u>			
Critical Pressure <u>670</u> P.S.I.A. <u></u> P.S.I.A.			
Critical Temperature <u>368</u> R <u></u> R			
P _c 5260.2 P _c ² 27670			
NO.	P _r ²	P _w	P _w ²
1.		5046.2	25464
2.		4761.2	22669
3.		4319.2	18655
4.		3841.2	14755
5.			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.1425$			
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5086$			
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1498$			
Absolute Open Flow <u>1,498</u> Mcfd @ 15.025			
Angle of Slope <u>62</u>			
Slope, n <u>.53927</u>			
Remarks: <u>P.W. Substituted for PT Measured Amerada Instrument No. 34683</u>			
Approved By Commission: <u>Richburg</u>			
Conducted By: <u>Spull</u>			
Calculated By: <u>Richburg</u>			
Checked By: <u>Richburg</u>			