

JUN 3 1976

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-24-76			
Company Maralo, Inc.				Connection El Paso Natural Gas Company				O.C.C. ARTESIA, OFFICE	
Pool Avalon <i>manaw</i>				Formation Morrow				Unit	
Completion Date 10-5-75		Total Depth 11,040 11030		Plug Back TD 10950		Elevation 3195 ft		Farm or Lease Name Hanson Fed	
Csg. Size 5 1/2	Wt. 17 & 20	d 1.995	Set At 1030	Perforations: From 10,590 To 10,911		Well No. 3			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 10530	Perforations: From To		Unit G	Sec. 33	Twp. 20	Rye. 27
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10,530		County Eddy			
Producing Thru Tbg.		Reservoir Temp. °F 182 @ 10,750		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L 10,530	H 10,530	Gg .593	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"	Taps Flg.	

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							2853				72 hr.
1.	4	x	1.500	491	2.25	78	2585				1 hr.
2.	4	x	1.500	491	7.29	76	2234				1 hr.
3.	4	x	1.500	504	11.56	74	1875				1 hr.
4.	4	x	1.500	512	14.44	74	1567				1 hr.
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	10.84	33.68	504.2	.9831	1.299	1.038	484
2	10.84	60.63	504.2	.9850	1.299	1.039	874
3	10.84	77.32	517.2	.9868	1.299	1.040	1117
4	10.84	87.09	525.2	.9868	1.299	1.040	1258
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.75	538	1.52	.928	dry				672	354
2.	.75	536	1.51	.927						
3.	.77	534	1.51	.925						
4.	.78	534	1.51	.924						
5.										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		2603.6	6778.7	1436.4
2		2253.0	5076.0	3139.1
3		1898.8	3605.4	4609.7
4		1595.9	2546.9	5668.2
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.449$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.262$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.588$

Absolute Open Flow		1,588	Mcfd @ 15.025	Angle of Slope θ	57.75°	Slope, n	.628
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Remarks: A small unmeasurable amount of distillate was made during the last fifteen (15) minutes of the test.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Rick Pagan	Rick Pagan	