

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

Form C-122
Revised 9-1-65

RECEIVED BY

APR 10 1984

O. C. D.

UNIT ARTESIA, OFFICE

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special				Test Date 3-30-84	
Company MARALO, INC. ✓				Connection	
Pool PECOS SLOPE <i>ALO</i>				Formation ABO	
Completion Date 3-27-84		Total Depth 4200.		Elevation <i>3627.7</i> 3623.	
Casing Size 4.500		Casing ID 4.052		Perforations: From 3961. To 3987.	
Casing Weight 11.6		Casing Depth 4200.		Well No. #1	
Tubing Size 2.375		Tubing ID 1.995		Perforations: From 0 To 0	
Tubing Weight 4.7		Tubing Depth 3850.		Unit Sec. Twp. Rge. E 16 6S 26E	
Type Well - Single - Broadhead - G.G. or G.O. Multiple SINGLE				Packer Set At 0	
Producing thru TUBING		Reservoir Temp. °F 107. • 3974.		Mean Annual Temp. °F 60.0	
Baro. Press. - P _a 13.2		State NEW MEXICO		County CHAVES	
L 3974.	H 3974.	Cg 0.778	% CO ₂ 15.21	% N ₂ 5.11	% H ₂ S 0
Prover Ø		Motor Run 3.1		Tape 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.	
51							955.		1085.	
1.	3.07 X 2.250			100.	1.5	116.	924.	0	1069.	8/64
2.	3.07 X 2.250			100.	3.0	100.	895.	0	1038.	10/64
3.	3.07 X 2.250			110.	6.0	70.	760.	0	1020.	15/64
4.	3.07 X 2.250			110.	16.0	60.	665.	0	957.	20.5/64
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, Mcd
1	28.78	13.03	113.2	0.9501	1.1337	1.0074	407.
2	28.78	18.43	113.2	0.9636	1.1337	1.0082	584.
3	28.78	27.19	123.2	0.9905	1.1337	1.0108	888.
4	28.78	44.40	123.2	1.0000	1.1337	1.0115	1465.
5							

NO.	P _r	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	0.16	576.	1.54	0.985	0.	0.	0.778	XXXXXXX	722.	375.
2	0.16	560.	1.50	0.984				0.778		
3	0.17	530.	1.42	0.979						
4	0.17	520.	1.39	0.977						
5										

NO.	P _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	1171.	954.	217.	4.6386	3.3147
2	1105.	927.	178.		
3	1058.	912.	146.		
4	941.	857.	84.		
5					

Absolute Open Flow 4856. Mcd @ 15.025 Angle of Slope 52.0 Slope, n .781

Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission	Conducted By RICHARD TOWNLEY	Calculated By BENNETT & CATHEY	Checked By <i>Evans</i>
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APR 9 1964
R.C.B.
F.C. DE OFFICE