

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-23-79		DEC 6 - 1979	
Company Maralo Oil Inc.				Connection None		O. C. C.	
Well Wildcat Morrow				Formation Morrow		ARTESIA, OFFICE	
Completion Date 11-21-79		Total Depth 9302		Plug Per L. TD 9100 9260		Elevation 4149.4	
Casing Size 5 1/2		Set At 17#		Perforations From 8855 To 8896		Form or Lease Name N.W. Indian Basin Comm.	
Tubing Size 2 3/8		Set At 4.70		Perforations From To		Well No. 1	
Type Well - Single - Broadhead - G.G. or G.O. Multiple Single				Packer Set At 8805		County Eddy	
Producing Time Tubing		Reservoir Temp. °F 160		Mean Annual Temp. °F 70		State New Mexico	
L		H		Gg		% CO ₂	
						% N ₂	
						% H ₂ S	
						Prover	
						Meter Run 3.068	

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
1.	3.068 x 1.00			560	5	46	1339	49			1 hr.
2.	"		"	560	7	55	530	57			"
3.	"		"	350	8	60	370	62			"
4.	"		"	170	16	54	200	54			"
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super. Correction Factor, F _{sp}	Rate of Flow Q, Well
1.	4.789	53.1500729	578.2	46	1.291	1.060	273
2.	"	63.166447	583.2	55	"	1.059	300
3.	"	52.915026	353.2	60	"	1.056	332
4.	"	37.416574	153.2	54	"	1.017	358
5.	"						

NO.	P _i	Temp. °R	T _i	Z	Gas-Liquid Hydrocarbon Ratio	None	to Fuel
1.					A.P.L. Gravity of Liquid Hydrocarbon		Deg.
2.					Specific Gravity Separator Gas		X X X X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X	
4.					Critical Pressure	P.S.I.A.	P.S.I.A.
5.					Critical Temperature	R	R

P _i	32102	P _e	10,305	P _i ²	1036164	P _e ²	106205	P _i ² - P _e ²	1025544
NO.	P _i	P _e	P _i ²	P _e ²	P _i ² - P _e ²				
1.		1700.2	2891	7414					
2.		876.2	768	9537					
3.		658.2	433	9872					
4.		532.2	283	10022					
5.									

(1) $\frac{P_e^2}{P_i^2 - P_e^2} = 1.081$

* $\frac{P_e^2}{P_i^2 - P_e^2} = 379$

(2) $\left[\frac{P_e^2}{P_i^2 - P_e^2} \right]^n = 1.059$

Absolute Open Flow	379	Moles 15.075	Angle of Slope	53.5	Choke	.740
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Approved By Commission	Conducted By: Conrad Dorsey	Calculated By: Conrad Dorsey	Checked By:
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