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O. C. D.
ARTESIA, OFFICE

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-10-83									
Company Maralo, Inc.		Connection El Paso									
Pool <i>Crooked Creek Morrow</i>		Formation <i>Crooked Creek Morrow</i>									
Completion Date Work-Over 5-31-83		Total Depth 10,250									
Plug Back TD 9700		Elevation <i>4050</i> G.L.									
Farm or Lease Name Maralo C&K State		Well No. 1									
Casing Size <i>2 1/2</i>		Perforations: 9243-9403									
From <i>8256-10</i>		To 9415-9660									
Tubing Size <i>2 3/8</i>		Perforations: Open Tended									
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At									
Producing Thru Tubing		Reservoir Temp. °F 169 @ 9450'									
Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2									
State New Mexico		County Eddy									
L 9450'		H 9450									
G _g .584		% CO ₂ .513									
% N ₂ .593		% H ₂ S									
Prover		Meter Run 4"									
Taps		Flange									
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	Duration of Flow
SI							2394		PKR		24 Hrs
1.	4	x	.375	8.8/374	6.0/36	88/132	2076				1 Hr.
2.	4	x	.375	8.8/374	2.4/54.8	89/133	1866				1 Hr.
3.	4	x	.375	8.85/378	8.3/68.9	90/135	1620				1 Hr.
4.	4	x	.375	8.85/378	9.0/81	91/136	1327				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	.6670	118.06	387.2	.9372	1.309	1.024	99				
2	.6670	145.67	387.2	.9364	1.309	1.024	122				
3	.6670	164.18	391.2	.9349	1.309	1.024	137				
4	.6670	178.00	391.2	.9341	1.309	1.024	149				
5.											
NO.	R _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio Dry		Mcf/bbl.				
1	.58	592	1.69	.953	A.P.I. Gravity of Liquid Hydrocarbons		Deg.				
2.	.58	592	1.69	.953	Specific Gravity Separator Gas .584		XXXXXXXXXX				
3.	.58	595	1.70	.954	Specific Gravity Flowing Fluid XXXXX						
4.	.58	596	1.70	.954	Critical Pressure 672		P.S.I.A.		P.S.I.A.		
5					Critical Temperature 350		R		R		
P _c * 2542.1 P _c ² 6462.3											
NO	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.993$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,234$				
1		2273.3	5167.9	1294.4							
2		2063.7	4258.9	2203.4							
3		1830.2	3349.6	3112.7							
4		1549.7	2401.6	4060.7							
5											
Absolute Open Flow 221 Mcfd @ 15.025											
Angle of Slope θ 63.5											
Slope, n 500											
Remarks: Bottom Hole Pressure measured with Kuster Gauge * Figured from known bottom hole pressures. Point alignment too steep, a slope of 63.5 was drawn thru low rate of flow.											
Approved By Commission:			Conducted By: W.S.			Calculated By: R.R.			Checked By: R.R.		