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JUL 18 1978
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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 7-7-78		JUL 28 1978											
Company MARALO, INCORPORATED				Connection EL PASO NATURAL GAS CO.		O.C.G. ARTESIA, OFFICE											
Well Avalon Strawn				Location Strawn UPPER PENN		Unit ARTESIA, OFFICE											
Completion Date 6-26-78		Total Depth 11030		Flow Back To 9,700'		Elevation 3195g											
Csg. Size 5 1/2"		Wt. 17#		Set At 4.892"		Perforations: From 9,564' To 9,595'											
Tbg. Size 2 3/8"		Wt. 4.7#		Set At 1.995"		Perforations: From OPEN ENDED											
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 9,478'		County EDDY											
Producing Thru TUBING		Reservoir Temp. °F 169 @ 9,454'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2											
L 9454		H 9454		Gg .670		% CO ₂ 1.46											
				% N ₂ 3.15		% 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	Press. p.s.i.g.	Temp. °F	Duration of Flow				
SI							2575						48 HR.				
1.	4"	x	1.00"	560	2.3	89	2432						1 HR.				
2.	4"	x	1.00	570	4.8	88	2300						1 HR.				
3.	4"	x	1.00	550	10.2	85	2195						1 HR.				
4.	4"	x	1.00"	530	15.2	80	2058						1 HR.				
5.																	
RATE OF FLOW CALCULATIONS																	
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd										
1	4.753	36.31	573.2	.9732	1.222	1.053	216										
2	4.753	52.91	583.2	.9741	1.222	1.055	316										
3	4.753	75.79	563.2	.9768	1.222	1.054	453										
4	4.753	90.87	543.2	.9813	1.222	1.054	546										
5																	
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 15.298 Mcf/bbl.												
1	.86	549	1.44	.902	A.P.L. Gravity of Liquid Hydrocarbons 75 @ 60 Deg.												
2	.87	548	1.43	.898	Specific Gravity Separator Gas .670 XXXXXXXXXX												
3	.84	545	1.43	.901	Specific Gravity Flowing Fluid XXXXX G-MIX .824												
4	.81	540	1.41	.900	Critical Pressure 669 P.S.I.A. 665 P.S.I.A.												
5					Critical Temperature 382 R 431 R												
*P _c 2855.7 P _c ² 8155.0																	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.802$			(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.891$									
1	2735.4	7482.4	672.6														
2	2664.5	7099.6	1055.4														
3	2558.2	6544.4	1610.6														
4	2451.5	6009.9	2145.1														
5																	
Absolute Open Flow 1,579 Mcfd @ 15.025								Angle of Slope @ 51.5	Shape, n .795								
Remarks: 4.7 BBLs OF CONDENSATE MADE DURING THE TEST.																	
* FIGURED FROM KNOWN BOTTOM HOLE PRESSURES. PRESSURES MEASURED WITH KUSTER GAUGE @ 9,454 FEET.																	
Approved By Commission:			Conducted By: B.D.			Calculated By: R.R.		Checked By: J.W.									