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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 10-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special			Test Date: 4-24-85	
Company: MARALO INC.	Connection: TO AIR			
Pool: PECOS SLOPE Abo	Formation: ABO		Unit: I	
Completion Date: 4-25-85	Total Depth: 4200	Plug Back T.D.: 4161	Elevation: 4104.	Farm or Lease Name: PECOS STATE 16
Csg. Size: 4.500 / Wt.: 11.6 / d: 4.052 / Set At: ~~4150.~~ 4206		Perforations: From 3915. To 4120.		Well No.: 4
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 3800.		Perforations: From 0 To 0		Unit: I / Sec.: 16 / Twp.: 6S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: 0		County: CHAVES
Producing Thru: TUBING	Reservoir Temp. °F: 115 @ 4017	Mean Annual Temp. °F: 60.0	Baro. Press. – P_a: 13.2	State: NEW MEXICO
L: 4017 / H: 4017	Gg: 0.652	% CO_2: 0.23	% N_2: 6.66	% H_2S: 0 / Prover: 0 / Meter Run: 4.0 / Taps: FLANGE

FLOW DATA					TUBING DATA		B.H.P. DATA		
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.	CHOKE	Duration of Flow
SI									
1					977.2		1069 •		24.0
2	4.03 X 1.000	375	14.0	96	961.2	0	1050 •	4/64	1.0
3	4.03 X 1.000	450	27.0	92	924.2	0	1014 •	7/64	1.0
4	4.03 X 1.000	510	48.0	86	871.2	0	962 •	9/64	1.0
5	4.03 X 1.000	510	100.0	80	615.2	0	892 •	12/64	1.0

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	4.75	73.72	388.2	0.9671	1.2384	1.0268	431
2	4.75	111.83	463.2	0.9706	1.2384	1.0327	660
3	4.75	158.47	523.2	0.9759	1.2384	1.0386	945
4	4.75	228.74	523.2	0.9813	1.2384	1.0402	1374
5							

NO.	P_t	Temp. °R	T_g	Z
1	0.59	556	1.56	0.949
2	0.70	552	1.55	0.938
3	0.79	546	1.53	0.927
4	0.79	540	1.52	0.924
5				

Gas Liquid Hydrocarbon Ratio: 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 0 Deg.
Specific Gravity Separator Gas: 0.652 / XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX / 0.652
Critical Pressure: 659 P.S.I.A. / 659 P.S.I.A.
Critical Temperature: 356 R / 356 R

P_c 975.7 P_c^2 952

NO	P_t^2	P_w	R_w^2	$P_c^2 - R_w^2$
1	1130	959	919	33
2	1055	927	859	93
3	951	880	775	177
4	819	818	669	283
5				

(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 3.3639$ (2) $\left[\frac{R_t^2}{R_t^2 - R_w^2}\right]^n = 2.1974$

AOF = Q $\left[\frac{R_t^2}{R_t^2 - R_w^2}\right]^n = 3019.2$

Post ID-2
5-17-85
comp + BK

Absolute Open Flow: 3019.2 Mcfd @ 15.025 | Angle of Slope θ: 57.0 | Slope, n: .649

Remarks: B.H.P MEASURED WITH AMERADA PRESSURE ELEMENT

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	BENNETT & CATHEY	RICHARD TOWNLEY	