

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4-17-91				
Company Maralo, Inc.				Connection To Air					
Pool Bilbrey				Formation Morrow				Unit	
Completion Date 4-17-91		Total Depth 14830		Plug Back TD 14785		Elevation		Farm or Lease Name Bilbrey 34 Fed.	
Csg. Size 4 1/2		Wt. 15.1		Set At 3.826		Perforations: From 14659 To 14765		Well No. 1	
Csg. Size 2 3/8 & 2 7/8		Wt. 7.9 & 4.7		Set At 2.441		Perforations: From To		Unit Sec. Twp. Rge. C 34 21 32	
Type Well - Single - Greenhead - G.C. or G.C. Multiple Single						Packer Set At 14570		Country Lea	
Producing Thru TBG		Reservoir Temp. °F 220		Mean Annual Temp. °F 14590		Baro. Press. - P _a 60		State New Mexico	
L *14590		H *14590		G _g .608		% CO ₂ .83		% N ₂ .24	
						% H ₂ S		Prover 4.026	
								Meter Run FLG	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							4348		PKR		72 Hrs.
1.	4 X 2.000			530	6.00	78	4106		PKR		1 Hr
2.	4 X 2.000			540	13.00	42	3825		PKR		1 Hr
3.	4 X 2.000			540	28.00	29	3292		PKR		1 Hr
4.	4 X 2.000			550	50.00	30	2540		PKR		35 Mins.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{P/P_a}$	Pressure P _a	Flow Temp. Factor FL	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	19.81	57.09	543.2	.9831	1.282	1.043	1.487
2	19.81	84.80	553.2	1.018	1.282	1.056	2.315
3	19.81	124.46	553.2	1.031	1.282	1.066	3.474
4	19.81	167.81	563.2	1.030	1.281	1.067	4.684
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	.81	538	1.50	.919	83.4	52.4	.608	XXXXXX	671	358
2	.82	502	1.40	.897				XXXXX		
3	.82	489	1.36	.880						
4	.83	490	1.36	.879						
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	4214.0	17757.8	1834.3	1.792	1.506
2	3940.1	15524.4	4067.7		
3	3494.8	12213.6	7378.5		
4	2942.4	8657.7	10934.4		
5					

Absolute Open Flow <u>7.054</u> Mcfd @ 15.025			Angle of Slope @ <u>55.0</u>		Slope, n <u>.702</u>	
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Remarks: * = BHP INSTRUMENT SET @ THIS DEPTH	
WELL MADE 5.00 BBLs OF 52.4 API CONDENSATE @ 60°	

Approved By Division	Conducted By John West Engineering	Calculated By BM	Checked By BM
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