

CONFIDENTIAL

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RECEIVED

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Maralo, Inc.				Lease or Unit Name S ²⁶ Federal			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-24-95			
Completion Date		Total Depth 10,588		Plug Back TD		Elevation	
Csg. Size 5½"	Wt. d	Set At 10,588		Perforations: From: 10268 To: 10,290		County Eddy	
Tbg. Size 2-7/8"	Wt. d	Set At 10,150		Perforations: From: To:		Pool Wildcat	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At		Formation Morrow	
Producing Thru Tbg		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2	
L 10,279		H 10,279		G _g .624		% CO ₂ .78	
				% N ₂ 1.39		% H ₂ S 4 PPM	
				Prover		Meter Run 3.068	
						Taps Flg.	

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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	
SI							3413		Pkr.		72 Hours
1.	3	X	2.000	84	10.00	72	3386		"		1 Hour
2.	3	X	2.000	84	32.00	66	3356		"		1 Hour
3.	3	X	2.000	93	60.00	70	3324		"		1 Hour
4.	3	X	2.000	99	93.00	50	3292		"		1 Hour
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, F _{pv}	Rate of Flow Q, Mcfd
1.	21.32	31.18	97.2	.9887	1.266	1.008	839
2.	21.32	55.77	97.2	.9943	1.266	1.009	1,510
3.	21.32	79.82	106.2	.9905	1.266	1.008	2,151
4.	21.32	102.14	112.2	1.010	1.266	1.010	2,812
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	.14	532	1.46	.984	A.P. L Gravity of Liquid Hydrocarbons	Dry	Deg.
2.	.14	526	1.45	.982	Specific Gravity Separator Gas	.624	XXXXXXXXXX
3.	.15	530	1.46	.980	Specific Gravity Flowing Fluid	XXXXXX	
4.					Critical Pressure *670	P.S.I.A.	P.S.I.A.
5.					Critical Temperature *362	R	R

$$P_c = 3452.1 \quad P_c^2 = 11917.0$$

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = 14.870$	2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^a = 14.870$
1.		3424.2	11725.2	191.8		
2.		3386.2	11466.4	450.6		
3.		3367.7	11341.4	575.6		
4.		3334.0	11115.6	801.4		
5.						

AOF = Q

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^a = 41.814$$

Absolute Open Flow	41,814	Mcf/d @ 15.025	Angle of Slope θ	45°	Slope, n	1.000
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Remarks: NO FLUID PRODUCED DURING TEST

* = CORRECTED TO 1.39% N₂ - ** = BHP INSTRUMENT SET AT THIS DEPTH

Approved By Division

Conducted By:
WEST-TEST, INC.

Calculated By:

B.M.

Checked By:

B.M.