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See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Medallion Production Company						Lease or Unit Name State of New Mexico 35					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8-14-95			Well No. 1		
Completion Date 7-1-95			Total Depth 12750			Plug Back TD 12706			Elevation 4069.5 K.B.		
Csg. Size 5½		Wt. 17#		Set At 12750		Perforations: From: 12454 To: 12466				Country Lea	
Tbg. Size 2-7/8		Wt. 6.5		Set At 12330		Perforations: From: To:				Pool South Kemnitz	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 12352			Formation Atoka-Morrow		
Producing Thru Tbg		Reservoir Temp. °F		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2			Connection NGPL		
L 12352	H 12352	Gg .642	% CO ₂ .37	% N ₂ 1.37	% H ₂ S	Prover		Meter Run 3.068	Taps Flg		

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							2914		PKR		24 Hours
1.	3	X	1.375	815	4.00	77	2735		"		1 Hour
2.	3	X	1.375	825	10.00	82	2575		"		1 Hour
3.	3	X	1.375	830	20.50	81	2395		"		1 Hour
4.	3	X	1.375	840	36.00	66	2154		"		1 Hour
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	9.249	57.56	828.2	.9840	1.248	1.075	703
2.	9.249	91.55	838.2	.9795	1.248	1.076	1,114
3.	9.249	131.47	843.2	.9804	1.248	1.076	1,601
4.	9.249	175.26	853.2	.9943	1.248	1.089	2,191
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcft/bbl.
1.	1.23	537	1.45	.866	A.P. I Gravity of Liquid Hydrocarbons	Dry	Deg.
2.	1.25	542	1.46	.864	Specific Gravity Separator Gas	.642	XXXXXXXXXX
3.	1.26	541	1.46	.863	Specific Gravity Flowing Fluid	XXXXXX	
4.	1.27	526	1.42	.843	Critical Pressure	*669	P.S.I.A. P.S.I.A.
5.					Critical Temperature	*369	R R

P _c 2927.2 P _c ² 8568.5				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.		2749.4	7558.9	1009.6
2.		2591.2	6714.5	1854.0
3.		2414.9	5831.6	2736.9
4.		2180.9	4756.4	3812.1
5.				

$$1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.248$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.754$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.170$$

Absolute Open Flow 4,754 Mcfd @ 15.025	Angle of Slope 46.3	Slope, n .9565
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Remarks: **No Fluid Produced**
***Corrected to 1.37% N2**

Approved By Division	Conducted By: West-Test, Inc.	Calculated By: B.M.	Checked By: B.M.
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