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appropriate district office
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 Vacuum 31					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8-19-95		Well No. 1			
Completion Date 6-26-95		Total Depth 12750		Plug Back TD 12692		Elevation 4068 DF		Unit Ltr. - Sec. - TWP - Rge. 0 31 - 16 - 35			
Csg. Size 5 1/2	Wt. 17	d 	Set At 12750	Perforations: From: 12328 To: 12342				County Lea			
Tbg. Size 2-3/8	Wt. 4.7	d 1.995	Set At 12271	Perforations: From: To:				Pool North Vacuum			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 12271		Formation Atoka-Morrow			
Producing Thru Thg		Reservoir Temp. °F		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Connection GPM			
L 12271	H 12271	Gg .649	% CO ₂ 1.38	% N ₂ 1.16	% H ₂ S 	Prover		Meter Run 4.026	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							852		Pkr		24 Hours
1.	4	X	1.750	76.5			570		"		24 "
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.							328
2.	GAS MEASURED BY GPM POSITIVE FLOW METER						
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY GAS	Mcf/bbl.
1.					A.P. L Gravity of Liquid Hydrocarbons	DRY	Deg.
2.					Specific Gravity Separator Gas	.649	XXXXXXXXXX
3.		N/A			Specific Gravity Flowing Fluid	XXXXXX	
4.					Critical Pressure	*673	P.S.I.A.
5.					Critical Temperature	*368	R

P _c 865.2 P _c ² 748.6				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		587.0	344.5	404.1
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.853}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{.608}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.853}$

Absolute Open Flow 608 Mcfd @ 15.025	Angle of Slope θ 45	Slope, n 1.000
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Remarks: ***CORRECTED TO 1.38% CO2 & 1.16% N2**

CK. SETTING 12/64

Approved By Division	Conducted By: WEST-TEST INC.	Calculated By: B.M.	Checked By: B.M.
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