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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 HALLWOOD PETROLEUM				Lease or Unit Name WILLIAMS 35 COM			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12-20-95		Well No. 1	
Completion Date 8-23-95		Total Depth 13100		Plug Back TD 11750		Elevation	
Csg. Size 4 1/2		Wt. d		Set At 13100		Perforations: From: 11470 To: 11750	
Tbg. Size 2-7/8		Wt. 6.5		Set At 11377		Perforations: From: 11377 To: 11750	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single				Packer Set At 11377		Formation STRAWN	
Producing Thru TBG		Reservoir Temp. °F 187.7 @ 11377		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.0	
L 11377		H 11377		Gg .623		% CO ₂ .45	
				% N ₂ .67		% H ₂ S 0.00	
				Prover DIST. 2		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						759		PKR		24 hr.
1.	4	X 1.500	45	72.30	42	208		"		24 hr.
2.										
3.										
4.										
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.	10.84	64.87	58.2	1.036	1.267	1.003	926
2.							
3.							
4.							
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.	.08	502	1.37	.995	DRY GAS	DRY	.623	XXXXXX	671	365
2.										
3.										
4.										
5.										

P_c <u>772.2</u>		P_c^2 <u>596.3</u>								
NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$	1) $\frac{P_c^2}{P_c^2 - P_w^2}$	=	<u>1.113</u>	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$	=	<u>1.113</u>
1.		246.3	60.7	535.6						
2.										
3.										
4.										
5.										

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$ = 1.031

Absolute Open Flow **1,031** Mcfd @ 15.025 Angle of Slope Θ **45** Slope, n **1.000**

Remarks:

Approved By Division _____ Conducted By: **PRO WELL TESTER** Calculated By: **BM** Checked By: **BM**