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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 Robert L. Bayless					Lease or Unit Name Horn Canyon				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10/16/95		Well No. 1		
Completion Date 10/09/95		Total Depth 1745		Plug Back TD 1670		Elevation 5550 RKB		Unit Loc. - Sec. - TWP. - Rge. D 15 28N 11W	
Csg. Size	Wt.	d	Set At	Perforations:			County		
5 1/2"	15.5	4.950"	1715	From: 1562 To: 1584			San Juan		
Tbg. Size	Wt.	d	Set At	Perforations:			Pool		
2 3/8"	4.7	1.995"	1582	From: none To: none			Fulcher Kutz PC		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At none			Formation Pictured Cliffs		
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a 12.0 psia, est.		Connection EPFS	
L	H	Gg est 0.65	% CO ₂	% N ₂	% H ₂ S	Prover		Meter Run	Taps

FLOW DATA				TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice Size	Press. P _{avg}	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
1.	2 inch x .750"				120	60°F	120	3 hrs.
2.					35		80	
3.								
4.								
5.								

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$h_w P_m$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	12.365		47	1.000	1.240	1.014	731
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P. L Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	0.07		1.39	0.973						
2.										
3.										
4.										
5.										

P _c 132		P _c ² 17,424	
NO.	P _i ²	P _w	P _c ² - P _w ²
1.		92	8,464
2.			
3.			
4.			
5.			

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9446$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1286$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.7600$

Absolute Open Flow 1286	Mcfd @ 15.025	Angle of Slope θ	Slope, n 0.85
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Remarks:

Approved By Division	Conducted By: Albert Aranda	Calculated By: Kevin McCord	Checked By:
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