

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

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

OIL CONSERVATION DIVISION

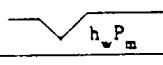
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Robert L. Bayless				Lease or Unit Name Jicarilla 31-32			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11/9/93		Well No. 1	
Completion Date 10/18/93		Total Depth 4120		Plug Back TD 3960		Elevation 7085 GL	
Csg. Size 4 1/2"		Wt. 11.6#/ft		Set At 4.000		Perforations: From: 3789 To: 3920	
Tbg. Size 2 3/8"		Wt. 4.7#/ft		Set At 1.995		Perforations: From: To:	
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 (est)	
L		H		G _g .65 (est)		% CO ₂	
						% N ₂	
						% H ₂ S	
						Prover	
						Meter Run	
						Taps	

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		
SI	7 days						1010		1010	
1.	2 inch x .750						32	60 °F	153	3 hrs.
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.	12.365		44	1.000	1.240	1.014	684
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcfd/bbl.
1.	0.07	520	1.39	.973	A.P. L Gravity of Liquid Hydrocarbons	Deg
2.					Specific Gravity Separator Gas	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A. P.S.I.A.
5.					Critical Temperature	R R

P_c 1022 P_c² 1,044,484

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.		165	27,225	1,017,259
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0268$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0227$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 700$

Absolute Open Flow 700 Mcfd @ 15.025 Angle of Slope θ Slope, n 0.85

Remarks: Well flowed dry gas throughout test.

Approved By Division	Conducted By: Cecil Bell	Calculated By: Kevin McCord	Checked By:
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