

Form C-122
Revised 9-1-65

☒ Initial ☐ Annual ☐ Special		Test Date 6-17-74	
Company Atlantic Richfield Company		Connection El Paso Natural Gas Company	
Pool Jalmat		Formation Yates	
Completion Date 5-11-74		Total Depth 3385	
Plug Back TD 3353		Elevation 3485 DF	
Farm or Lease Name McDonald State (WN)		Well No. 24	
Log. Size 4 1/2		Set At 3385	
Perforations: From 3125 To 3282		Unit E 25 22 36	
Log. Size 2 3/8		Set At 3070	
Perforations: From open To end		State New Mexico	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 3070	
Producing Thru Tbg.		Baro. Press. - P _a 13.2	
Reservoir Temp. °F 100		Mean Annual Temp. °F 60	
H 3070		Meter Run 4"	
G _g 3070		Taps Flg.	
% CO ₂ 658		% N ₂ 4"	
% H ₂ S 3070		Prover 3070	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
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	
5.						548				72 hr.
1.	4 x	2.250	83	5.29	60	489				1 hr.
2.	4 x	2.250	86	11.56	59	431				1 hr.
3.	4 x	2.250	93	17.64	60	383				1 hr.
4.	4 x	2.250	103	25.00	62	325				45 min.
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w F_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	25.64	22.56	96.2	1.000	1.233	Neg.	713
2.	25.64	33.86	99.2	1.001	1.233	Neg.	1070
3.	25.64	43.28	106.2	1.000	1.233	Neg.	1368
4.	25.64	53.90	116.2	.9981	1.233	Neg.	1704
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	None	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Dry	Deg.
2.	NEG.				Specific Gravity Separator Gas	.658	X X X X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X	
4.					Critical Pressure	670	P.S.I.A.
5.					Critical Temperature	375	R

NO.	P _t ²	P _w ²	P _w ²	P _t ² - P _w ²
1.	561.2	314.9	258.1	56.8
2.			210.8	104.1
3.			179.2	135.7
4.			149.2	165.7
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.900}{1.900 - 1.813} = 3.089$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.813}{1.813 - 1.744} = 3.089$$

Absolute Open Flow 3.089 Mcfd @ 15.025		Angle of Slope θ 47.24		Slope, n .927	
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Remarks: **No fluid produced during test.**

Approved By Commission:	Conducted By: Rick Pagan	Calculated By: J. B. Murray	Checked By: L. C. Hudry
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