

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-20-78	
Company Merrion & Bayless		Connection New Well	
Pool Ballard Undesignated		Formation Pictured Cliffs Upper Chacra	
Completion Date 9-26-77		Total Depth 2709' KB	Plug Back TD 2667' KB
Elevation 6838' GR		Farm or Lease Name Jicarilla 428	
Csg. Size 2-7/8"	Wt. 6.4#/ft	d 2.441"	Set At 2698'
Perforations From PC-2090' To 2124'		Well No. 5	
Perforations From CH-2558' To 2584'		Unit D	
Tubingless Completion		Sec. 31	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple		Twp. 23N	
Gas - Single - Commingled (R-5622)		Rge. 4W	
Packer Set At none		County Sandoval	
Producing Thru Casing	Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. - P _a 12.0
State N.M.		Meter Run	
L	H	G _g .60	% CO ₂
% N ₂		% H ₂ S	Prover 2"
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	Press. p.s.i.g.	Temp. °F	
SI									678		SIP
1.	2"	x	3/8"	24	---	52	---	---	24	52	3 hrs.
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	2.378		36	1.008	1.291	1.005	112
2							
3							
4							
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____ XXXXX XXXXX
3					Specific Gravity Flowing Fluid _____ XXXXX
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

P _c 690 P _c ² 476,100		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0028$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0024$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1	1296	37	1340		
2					
3					
4					
5					

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 112$

Absolute Open Flow 112		Mcf/d @ 15.025		Angle of Slope @ 0.85	
Remarks: GL (1-e ^{-rs}) (F _c Q) ² R ² P _t ² +R ² P _w 1550 .114 387 44 1340 37					

Approved By Commission:	Conducted By: Steven S. Dunn	Calculated By: Steven S. Dunn	Checked By: R. L. Bayless
-------------------------	---------------------------------	----------------------------------	------------------------------