

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9/25/81	
Company JACK A. COLE				Connection		
Pool Ballard Picture Cliffs				Formation Picture Cliffs		Unit
Completion Date 9/17/81		Total Depth 3108'		Plug Back TD 3040'		Elevation 7315'GL
Form or Lease Name Indian Bend						Well No. 4
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 3093'	Perforations: From 2939' To 2963'		Unit K
Thq. Size 1.660	Wt. 2.40	d 1.380	Set At 2973'	Perforations: From To		Soc. 25
Type Well - Single - Prodenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At NONE		Twp. 23N
Producing Thru Tubing		Reservoir Temp. °F 100@ 3108		Mean Annual Temp. °F 60		Rye. 3W
Baro. Press. - P _a 12.0		County Sandoval		State New Mexico		
L 2973'	H 2973'	Gg 0.6	% 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	Press. p.s.i.g.		Temp. °F
SI							600		625		8 days
1.	3/4" THC						75		285		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 F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		87	1.0000	1.0000	1.0000	1,076
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.L. Gravity of Liquid Hydrocarbons	Specific Gravity S _g meter Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2.										
3.										
4.										
5.										

P _c	637	P _c ²	405,769
NO.	P _t ²	P _w	P _w ²
1		297	88,209
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2777$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,325$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2316$

Absolute Q _{on} Flow	1,325	Mcf @ 15.025	Angle of Slope θ	Slope, n	0.85
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Remarks:

Approved By Commission:	Conducted By: Jerold Brooks	Calculated By: Ewell N. Walsh	Checked By:
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