

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10/1/81	
Company JACK A. COLE				Connection	
Pool Ballard Picture Cliffs				Formation Picture Cliffs	
Completion Date 9/19/81		Total Depth 2975'		Plug Back TD 2913'	
Elevation 7269' GL		Farm or Lease Name Indian Bend			
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 2948'	Perforations: From 2866' To 2880'	
Thg. Size 1.660	Wt. 2.40	d 1.380	Set At 2862'	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At NONE	
Producing Thru Tubing		Reservoir Temp. °F 100 @ 2975'		Mean Annual Temp. °F 60	
Baro. Press. - P _a 12.0		State New Mexico			
L 2862'	H 2862'	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							685		700		8 days
1.	3/4" THC						510		100		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.3650		112	1.0000	1.0000	1.0000	1,385
2.							
3.							
4.							
5.							

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

P _c 712	P _c ² 506,944			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		522	272,484	234,460
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.1621$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,668$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.9260$

Absolute Open Flow	2,668	Mcfd @ 15.025	Angle of Slope °	Slope, n 0.85
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Remarks:			
Approved By Commission:	Conducted By: Jerold Brooks	Calculated By: Ewell N. Walsh	Checked By:

