

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 10/2/81	
Company JACK A. COLE				Connection	
Pool Ballard Picture Cliff				Formation Picture Cliff	
Completion Date 9/17/81		Total Depth 2897'		Plug Back TD 2855'	
Elevation 7207' GL		Farm or Lease Name Indian Bend			
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 2883'	Perforations: From 2733' To 2779'	
Thq. Size 1.660	Wt. 2.40	d 1.380	Set At 2752'	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 @ 2897'		Mean Annual Temp. °F 60	
Baro. Press. - P _a 12.0		State New Mexico			
L 2752'	H 2752'	G _g 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							700		700		8 days
1.	3/4" THC						200		20		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		32	1.0000	1.0000	1.0000	396.
2.							
3.							
4.							
5.							

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

P _c 712 P _c ² 506,444					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0972$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0821$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1		212	44,944	462,000				
2								
3								
4								
5								

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 429$

Absolute Open Flow **429** Mcfd @ 15.025

Angle of Slope θ

Slope, n **0.85**

Remarks:

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