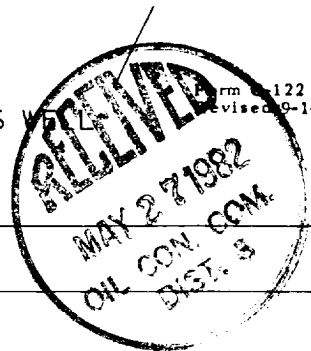


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS



Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5/25/82	
Company JACK A. COLE				Connection	
Pool Ballard Pictured Cliffs				Formation Pictured Cliffs	
Completion Date 5/8/82		Total Depth 3040'		Plug Back TD 3010'	
				Elevation 7436'GL	
Farm or Lease Name Indian Bend "A"					
Csg. Size 4.500	Wt. 10.50	d 4.000	Set At 3023'	Perforations: From 2952' To 2962'	
Well No. 1					
Thg. Size 1.660	Wt. 2.40	d 1.380	Set At 2956'	Perforations: From Open To Ended	
Unit Sec. Twp. Rge. C 5 22N 2W					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At	
County Sandoval					
Producing Thru Tubing		Reservoir Temp. °F 100# 3040		Mean Annual Temp. °F 60	
				Baro. Press. - P _a 12.0	
State New Mexico					
L 2956	H 2956	G _g	% 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							730		730		7 days
1.	3/4" THC						560		130		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		142	1.0000	1.0000	1.0000	1756
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 _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 742	P _c ² 550,564	
NO.	P _t ²	P _w
1		572
2		
3		
4		
5		

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.4646$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3780$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.1527$$

Absolute Open Flow	3780	Mcf/d @ 15.025	Angle of Slope θ	Slope, n 0.85
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Remarks:			
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Approved By Commission:	Conducted By: Jerold Brooks	Calculated By: Ewell N. Walsh	Checked By:
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