

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

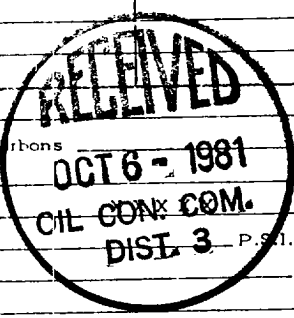
Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10/2/81			
Company JACK A. COLE				Connection					
Pool Ballard Picture Cliff				Formation Picture Cliffs				Unit	
Completion Date 9/16/81		Total Depth 3155'		Plug Back TD 3124'		Elevation 7363'GL		Farm or Lease Name Indian Bend	
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 3138'	Perforations: From 3048' To 3060'		Well No. 3			
Tbg. Size 1.660	Wt. 2.40	d 1.380	Set At 3032'	Perforations: From To		Unit C		Sec. 26	Twp. 23N
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas				Packer Set At None		County Sandoval			
Producing Thru Tubing		Reservoir Temp. °F 100 @ 3155'		Mean Annual Temp. °F 60		Baro. Press. - P _a 12.0		State New Mexico	
L 3032'	H 3032'	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							620		620		8 days
1.	3/4"THC						200		40		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		52	1.0000	1.0000	1.0000	643
2.							
3.							
4.							
5.							

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



P _c 632	P _c ² 399,424	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1267$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1067$
NO.	P _t ²	P _w	P _w ²
1		212	44,944
2			
3			
4			
5			

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 712$

Absolute Open Flow	712	Mcf/d @ 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: