

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

Form C-122
Revised 9-1-6

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10/4/81			
Company JACK A. COLE				Connection			
Pool Ballard Picture Cliffs				Formation Picture Cliffs		Unit	
Completion Date 9/18/81		Total Depth 2975'		Plug Back TD 2905'		Elevation 7269' GL	
Farm or Lease Name Indian Bend				Well No. 5			
Csq. Size 4.500	Wt. 10.50	d 4.052	Set At 2976'	Perforations: From 2877' To 2880'			
Tbg. Size 1.660	Wt. 2.40	d 1.380	Set At 2873'	Perforations: From To		Unit Sec. Twp. Rge. C 36 23N 3W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At NONE		County Sandoval	
Producing Thru Casing		Reservoir Temp. °F 100 @ 2975'		Mean Annual Temp. °F 60		Baro. Press. - P _a 12.0	
State New Mexico							
L 2976	H 2976	Gg .06	% 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							500		650		7 days
1.	3/4" THC						310		250		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		262	1.0000	1.0000	1.0000	3239
2.							
3.							
4.							
5.							

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

P_c 512 P_c² 262,144

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		310	96,100	166,044
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5787$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4741$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4,774$

Absolute Open Flow	4,774		Mcf @ 15.025	Angle of Slope °	Slope, n	0.85
Remarks:						

Approved By Commission:	Conducted By: Jerold Brooks	Calculated By: Dewayne Blancett	Checked By:
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