

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

Form C-122
 Revised 9-1-85

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10/1/81	
Company JACK A. COLE				Connection		
Pool BALLARD PICTURE CLIFF				Formation Picture Cliffs		Unit
Completion Date 9/18/81		Total Depth 3067'		Plug Back TD 3005'		Elevation 7335'GL
Csg. Size 4.500		Wt. 10.50		d 4.052		Set At 3067
Thq. Size 1.660		Wt. 2.40		d 1.380		Set At 3005'
Perforations: From 3001' To 3014'				Well No. 6		
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 @ 3067'		Mean Annual Temp. °F 60		Baro. Press. - P _a 12.0
State New Mexico						
L 3005	H 3005	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							690		690		8 days
1.	3/4"THC						230		30		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		42	1.0000	1.0000	1.0000	519
2.							
3.							
4.							
5.							

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

P _c 702 P _c ² 492,804				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1348$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1135$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1		242	58,564	434,240			
2							
3							
4							
5							

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 578$			
Absolute Open Flow		578	Mcf/d @ 15.025
Angle of Slope		0	Slope, n 0.85

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