

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-28-82	
Company Caulkins Oil Company				Connection	
Pool Blanco Mesa Verde				Formation Mesa Verde	
Completion Date 10-21-82		Total Depth 7444		Plug Back TD 7444	
Elevation 6496		Form or Lease Name Breach B			
Coq. Size 5 1/2"	Wt. 17# 15.5#	d 4.950 4.892	Set At 7400	Perforations: From 5208 To 4472	
Fig. Size 2 1/16	Wt. 2.25#	d 1.751	Set At 5355	Perforations: From 5355 To	
Type Well - Single - Brdenhead - G.C. or G.O. Multiple Gas and Gas Multiple				Packer Set At 5528	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F	
Baro. Press. - P _g		State New Mexico			
L	H	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							873		1057		7 Days
1.							57		464		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	14.1605		69	1.000	1.000	1.000	977
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/lbl.
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

$P_c = 885$ $P_c^2 = 783,225$					$(1) \frac{P_c^2}{P_e^2 - P_w^2} = \frac{1.407}{}$		$(2) \left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = \frac{1.2919}{}$	
NO.	P _t ²	P _w	P _w ²	P _e ² - P _w ²	$AOF = Q \left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = \frac{1,262}{}$			
1		476	226,576	556,649				
2								
3								
4								
5								

Absolute Open Flow _____ 1,262 _____ Mcfd @ 15.025		Angle of Slope @ _____ 75 _____		Slope, n _____	
Remarks: _____					
Approved By Division		Conducted By:		Calculated by:	
				Checked By:	