

OIL CONSERVATION DIVISION

P.O. BOX 2088

Form O-122
Revised 10-1-79STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-29-82	
Company Caulkins Oil Company					Connection	
Pool Blanco Mesa Verde					Formation Mesa Verde	
Completion Date 9/22/82		Total Depth 7475		Plug Back TD 7475		Elevation 6572
Csg. Size 5 1/2"		Wt. / # 15.5#		Perforations: From 5426 To 4573		Well No. 50 E
Trq. Size 2 1/16"		Wt. 3.25		Perforations: From 5503 To		Unit Sec. Twp. Rys. D 5 26N 6W
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Gas Gas Multiple					Packer Set At 5615	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 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	
S1							958		1139		7 Days
1.							74		309		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		86	1.000	1.000	1.000	1218
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

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.084$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.063$
1		321	103,041	1,221,760		
2.						
3.						
4.						
5.						

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,294$			
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Absolute Open Flow _____ 1.294 _____ Mcfd @ 15.025		Angle of Slope @ _____ 75 _____		Slope, n _____	
Remarks: _____					

Conducted By: _____		Calculated By: _____		Checked By: _____	