

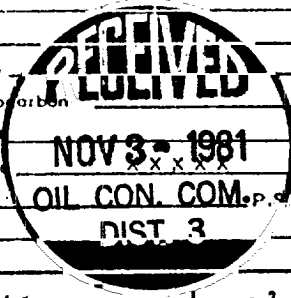
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-25-81			
Company Caulkins Oil Company				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 10-18-81		Total Depth 7500'		Plug Back TD 7500'		Elevation 6508' Gr.		Farm or Lease Name Breech F	
Coq. Size 5 1/2"	Wt. 17#	d 4.950	Set At 7500'	Perforations: From 7460 To 7244		Well No. 4M			
Trq. Size 2 1/16"	Wt. 3.25#	d 1.751	Set At 7497	Perforations: From 7497 To		Unit Sec. Twp. Rge. P 33 27N 6W			
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Gas - Gas Multiple						Packer Set At 5709		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	G _q	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Tape	

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	
51							1161		PKR		7 Day
1.							127		PKR		3 Hr.
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		159	1.000	1.000	1.000	2,252
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 Hydrocarbon	Deq.
2					Specific Gravity Separator Gas	XXXXXXX
3					Specific Gravity Flowing Fluid	XXXXXXX
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	R



NO.	P _t	P _w	P _t ²	P _w ²	P _t ² - P _w ²
1	22,281	697	485,872	890,057	
2					
3					
4					
5					

$$(1) \frac{P_c^2}{P_t^2 - P_w^2} = 1.546$$

$$(2) \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.386$$

$$AOF = Q \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 3,122$$

Absolute Open Flow	3,122	Mcf/d @ 15.025	Angle of Slope @	75	Slope, n
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Remarks:

Approved by Division	Conducted By:	Calculated By:	Checked By:
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