

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-10-69	
Company Wynn & Brooks				Connection	
Pool Basin Dakota				Formation Dakota	
Completion Date 10-2-69		Total Depth 6682		Plug Back TD 6675	
Elevation 5938 KB		Farm or Lease Name Federal D			
Csg. Size 5.50	Wt. 15.50	d 4.950	Set At 6682	Perforations: From 6585 To 6593	
Well No. 1					
Tbg. Size 1.90	Wt. 2.76	d 1.610	Set At 6593	Perforations: From 6585 To 6593	
Unit G	Sec. 22	Twp. 27	Rye. 8		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple GG - Dual				Packer Set At 6390	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F 60	
Baro. Press. - P _a 12.00		State New Mexico			
L 6593	H 6593	G _g .700 Est	% 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1.	3/4" TC Choke						2035				3 hrs.
2.							97	62			
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcid
1	12.3650		109	.9981	.9258		1,245
2.							
3.							
4.							
5.							

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

P _c 2047	P _c 24,190,209		
NO.	P _t ²	P _w	P _w ²
1	11,881	363	131,567
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_t^2 - P_w^2} = 1,0324$$

$$(2) \left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.0241$$

$$AOF = Q \left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1,275$$

Absolute Open Flow	1,275	Mcid @ 15.025	Angle of Slope @	Slope, n .75
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Remarks:

Approved By Commission:	Conducted By:	Calculated By: David L. Collis	Checked By: Ewell N. Walsh
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