

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-26-84		RECEIVED AUG 16 1984 OIL CON. DIV. DIST. 3					
Company Consolidated Oil & Gas, Inc.		Connection							
Pool Basin Dakota		Formation Dakota							
Completion Date 7-6-84		Total Depth 6612		Plug Back TD 6569		Elevation 6735 GL		Farm or Lease Name Ladd	
Csg. Size 5 1/2		Wt. 15.5, 17#		Set At 4.950		Perforations: From 6479 To 6522		Well No. 1-R	
Tub. Size 1 1/2		Wt. 2.76#		Set At 1.610		Perforations: From To		Unit Sec. Twp. Rge. F 19 25N 9W	
Type Well - Single - Drilled - G.C. or G.O. Multiple Single						Packer Set At		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 178 @ 6500		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L		H		G _g .650 est.		% CO ₂		% N ₂	
						% H ₂ S		Prover 6" pos. choke nipple	

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	7 days						548		562		
1.	2 x 3/4"						13	60	381	60	3 hours
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 _{sp}	Rate of Flow Q, Mcd
1	8.00		25	1.000	1.000	1.000	200
2.							
3.							
4.							
5.							

NO.	P _r	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	

P _c 574 P _c ² 329476				
NO	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		393	154449	175027
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.8824$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6070$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 321.4$$

Absolute Open Flow	321.4	Mcd @ 15.025	Angle of Slope @	53.13	Slope, n	.75
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Remarks:

Approved By Division	Conducted By: Richard Housh	Calculated By: Richard Housh	Checked By:
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