

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			
Company Consolidated Oil & Gas, Inc.				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date		Total Depth 7180		Plug Back TD 6900		Elevation 5909		Farm or Lease Name Southern Union	
Csg. Size 4 1/2	Wt. 10.5	d 4.950	Set At 7075	Perforations: From 6768 To 6840		Well No. 2-E			
Thg. Size 1 1/2	Wt. 2.9	d 1.610	Set At 6776	Perforations: From To		Unit Sec. Twp. Rge. C 19 31 12			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 168 6775		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L	H	G _q	% CO ₂	% N ₂	% H ₂ S	Prover 6" nipple		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	7 days						641		630		
1.	2 X 3/4						38	60	392		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 _{pv}	Rate of Flow Q, Mcfd
1	11.0		50	1.000	1.240	1.007	686.8
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 _____
3.					Specific Gravity Flowing Fluid _____
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 642	P _c ² 412.2	
NO.	P _t ²	P _w
1		404
2		
3		
4		
5		

$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.65542$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5250$	
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1047.4$			

Absolute Open Flow	1047.4	Mcf/d @ 15.025	Angle of Slope θ	53.13°	Slope, n	0.75
Remarks:						

Approved By Commission:	Conducted By: Teffeller, Inc.	Calculated By:	Checked By:
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