

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				
Completion Date		Total Depth 8300		Plug Back TD 8212		Elevation 7110 GL		Farm or Lease Name Northwest Federal	
Csq. Size 5 1/2	Wt. 15.5	d	Set At 8298	Perforations: From 8024 To 8206		Well No. 3-E			
Tbg. Size 1 1/2	Wt. 2.9	d	Set At 8100	Perforations: From To		Unit L	Sec. 6	Twp. 26	Rge. 4
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual gas					Packer Set At 7650		County Rio Arriba		
Producing Thru Tubing		Reservoir Temp. °F a		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" 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	Shut-in 19 days						2169		Pkr.		
1.	2 X 3/4						70	60	Pkr.		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 Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11.00		82	1.000	1.240	1.000	1118
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	XXXXXXX
3.					Specific Gravity Flowing Fluid	_____
4.					Critical Pressure _____ P.S.I.A.	_____ P.S.I.A.
5.					Critical Temperature _____ R	_____ R

P _c 2181	P _c ² 4757		
NO	P _t ²	P _w	P _w ²
1	6.7		114
2			4643
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0246 \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0174$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1137$$

Absolute Open Flow	1137	Mcf/d @ 15.025	Angle of Slope θ	Slope, n
Remarks:				

Approved By Commission:	Conducted By: Vernon Nelson	Calculated By: Neil Tefteller	Checked By:
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