

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 2-15-81	
Company Consolidated Oil & Gas Co.				Connection	
Pool BS Mesa				Formation Gallup	
Completion Date		Total Depth 7650		Plug Back TD	
Elevation		Farm or Lease Name Northwest Federal			
Csg. Size 5 1/2	Wt. d	Set At 8298	Perforations: From 7196 To 7552		Well No. 3-E
Tbg. Size 1 1/2	Wt. d	Set At 7350	Perforations: From To		Unit Sec. Twp. Rge. 2 6 26N 40E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple				Packer Set At 7650	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F 12.0	
Baro. Press. - P _a 12.0		County Rio Arriba			
State New Mexico					
L	H	G _g .650	% CO ₂	% N ₂	% H ₂ S
Prover		Meter Run		Taps	
6" pos. choke					

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
Sl	Shut-in weeks						1271		1271		
1.	2 X 3/4						6	60	232		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	11.00		18	1.000	1.240	1.000	246
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	XXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 1283	P _c ² 1646089	
NO.	P _t ²	P _w ²
1	244	59536
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0375$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 253$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0280$

Absolute Open Flow	253	Mcf/d @ 15.025	Angle of Slope θ	53.13°	Slope, n	0.075
Remarks:						

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