

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-2-84		AUG 31 1984 OIL CON. DIV. DIST. 3	
Company Consolidated Oil & Gas, INC				Connection Gas Co. of New Mexico			
Pool Basin Dakota				Formation Dakota		Unit	
Completion Date 7-17-84		Total Depth 7070'		Plug Back TD 7027'		Elevation 6639' GR	
Farm or Lease Name Con Hale				Well No. 2-E			
Csq. Size 5-1/2"	Wt. 15.5#	d 4.950"	Set At 7070	Perforations: From 6765' To 6980		Unit Sec. Twp. Rge. E 15 26N 8W	
Tbg. Size 1-1/2"	Wt. 2.90	d 1.610	Set At 6953'	Perforations: From To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single				Packer Set At none		County San Juan	
Producing Thru tubing		Reservoir Temp. °F 162 # 6872'		Mean Annual Temp. °F		State New Mexico	
L	H	Gg .650est	% CO ₂	% N ₂	% H ₂ S	Prover 6" positive Choke 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	
1.	7 days						1599		1629		
2.	2"x6"x3/4"						102	60	611	60	3 hours
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		114	1.000	1.240	1.011	1572
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 _____ 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 1641 P _c 22602881				
NO	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		623	388129	2304752
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1684$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1238$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1767$

Absolute Open Flow <u>1767</u> Mcfd @ 15.025	Angle of Slope @ <u>53.13</u>	Slope, n <u>.75</u>
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Remarks: Heavy oil mist during test.

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