

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-15-85	
Company Consolidated Oil & Gas, Inc.				Connection El Paso Natural Gas Co.	
Pool Basin Dakota				Formation Dakota	
Completion Date 12-18-84		Total Depth 6870'		Plug Back TD 6837' FC	
				Elevation 5765' KB	
Csg. Size 5-1/2"		Wt. 15.5#		Set At 6868'	
Tbg. Size 1-1/2"		Wt. 2.9#		Set At 6654'	
Perforations: From 6572' To 6711'				Well No. 1R	
Perforations: From To				Unit Sec. Twp. Rge. A 11 31N 13W	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Dual Gas				Packer Set At 4730'	
Producing Thru Tbg				County San Juan	
Reservoir Temp. °F 191# 6600'		Mean Annual Temp. °F		State New Mexico	
L	H	Gg .650est	% CO ₂	% N ₂	% H ₂ S
Prover 2"pos ck		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.	
SI	7 days						1747	-	907	-
1.	2x3/4"						114	60	909	60
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11.0		126	1.000	1.240	1.012	1739
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	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.
5.					Critical Temperature	R

NO.	P _t	P _w	P _c ²	P _c ² - P _w ²
1			237096	2856985
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0830$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1846$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0616$$

Absolute Open Flow	1846	Mcf/d @ 15.025	Angle of Slope	75
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Remarks:

Approved By Division	Conducted By: R. Housh	Calculated By: N. Tefteller	Checked By: br
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