

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-24-84		RECEIVED AUG 08 1984 OIL CON. DIV. DIST. 2	
Company Consolidated Oil & Gas, Inc.				Connection			
Pool Basin Dakota				Formation Dakota			
Completion Date 6-22-84		Total Depth 6490'		Plug Back TD 6449'		Elevation 6722' KB	
Csg. Size 5-1/2"		Wt. 17 & 15.5#		Set At 4.950		Perforations: From 6372' To 6419'	
Tbg. Size 1-1/2"		Wt. 2.40#		Set At 1.380		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At		Well No. 1E	
Producing Thru tbg		Reservoir Temp. °F 161 #6395		Mean Annual Temp. °F		Baro. Press. - P _a 12	
L		H		G _g .65 est		% CO ₂ % N ₂ % H ₂ S	
						Prover 6" Pos	
						Meter Run Choke Nipple	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.
1.	7 days						640
2.	2x3/4"						42
3.							60
4.							518
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.	11.00		54	1.000	1.240	1.000	737
2.							
3.							
4.							
5.							
NO.	P _t	Temp. °R	T _t	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 667 P _c ² 444889					(1) $\frac{P_c^2}{P_e^2 - P_w^2} = 2.7129$ (2) $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 2.1138$		
NO.	P _t ²	P _w	P _w ²	P _e ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 1558$		
1.		530	280900	163989			
2.							
3.							
4.							
Absolute Open Flow 1558 Mcfd @ 15.025					Angle of Slope @ 53.13		Slope, n .75
Remarks: wet							
Approved By Division		Conducted By: Richard Housh		Calculated By: Neil Tefteller		Checked By:	