

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form O-122
Revised 9-1-65

RECEIVED
MAR 3 1967
OIL CON. COM.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-18-67	
Company Tenneco Oil Co.				Connection	
Pool Basin Dakota				Formation	
Completion Date		Total Depth		Plug Back TD 6723	
Elevation		Farm or Lease Name Schwerdtfeger "A"			
Csq. Size 4.5	Wt. d	Set At 6731	Perforations: From 6520 To 6700		Well No. 2 - X
Tbg. Size 2.375	Wt. d	Set At 6696	Perforations: From To		Unit Sec. Twp. Rge. 31 28 8
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At	
Producing Thru X				Baro. Press. - P_a 12.0	
Reservoir Temp. °F a				State New Mexico	
Mean Annual Temp. °F		County San Juan		Prover	
L	H	Gg	% CO ₂	% N ₂	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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							986		1315		3. hrs.
1.	2	X	3/4				245	60	832		
2.											
3.											
4.											
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	12.3650		257	1.000	.9608	1.026	3128
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 X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P_c 1327	P_w^2 1755625		
NO.	P_t^2	P_w	P_w^2
1		844	712336
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.6828} \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.4774}$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{4621}$$

Absolute Open Flow 4621 Mcfd @ 15.025		Angle of Slope θ _____		Slope, n .75
Remarks: _____				
Approved By Commission:	Conducted By:	Calculated By: Neil Tetteller	Checked By: J. E. Massey	