

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

Form C-129
 Revised 9-1-65

001 131976

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8/11/76		OIL CON. COM. DIST. 3	
Company Tenneco Oil Company				Connection			
Pool Blanco Mesa Verde				Formation Mesa Verde		Unit 0	
Completion Date 8/1/76		Total Depth 5100'		Plug Back TD 5038'		Elevation 5773' GL	
Farm or Lease Name Howell		Well No. 2 A		Perforations: From 4959' To 4864'		Set At 5098'	
Csg. Size 4-1/2"		Wt. 10.5		d		Perforations: From 4769' To 4420'	
Thg. Size 2-3/8"		Wt. 4.7		d		Set At 4957'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None Set		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		State New Mexico	
Baro. Press. - P _a		Prover		Meter Run		Taps	
L		H		G _g .680		% CO ₂	
% N ₂		% H ₂ S					

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.	2X.750			182			469		623		3 hours
2.							182	57	521		
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		194	1.003	1.213	1.020	2648
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.29	537	1.39	.962	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. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _c	P _w	P _c ² - P _w ²	P _c ²
1	635	533	284089	403225
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.3846$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6608$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.4953$

Absolute Open Flow	6608	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
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