

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 7-16-90	
Company TEXACO INC			Connection		
Pool Eumont Yates 7 Rivers			Formation Penrose		Unit
Completion Date 07-14-90		Total Depth 3900'	Plug Back TD 3895'	Elevation 3679	Farm or Lease Name William Weir
Coq. Size 5.5	Wt. 15.5	d 4.95	Set At 3900	Perforations: From 3598 To 3821	Well No. 5
Thg. Size 2.375	Wt. 4.7	d 1.995	Set At 3702	Perforations: From To	Unit Sec. Twp. Rye. P 23 19S 36E
Type Well - Single - Bradenhead - G.C. or G.O. Multiple G.C. Single			Packer Set At None		County LEA
Producing Thru Tubing	Reservoir Temp. °F 109°	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2	State NEW MEXICO	
L 3702	H 3702	G _g .889	% CO ₂ 18.53	% N ₂ 1.35	% H ₂ S .9
Prover				Meter Run 2.067	Taps Flange

NO.	FLOW DATA			TUBING DATA		CASING DATA		Duration of Flow
	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.	2.067 x 1.5		56	78	75	56	75	72
2.								1
3.								
4.								
5.								

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.	12.76	73.47	69.2	.9859	1.061	1.017	998
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.2	535	1.28	.967	591	
2.					31.9	
3.					.889	XXXXXXX
4.					.895	
5.					744	744 P.S.I.A.
					419	422 R

NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.	4.8	143.2	20.5	175.9	175.1	1.122
2.						
3.						
4.						
5.						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1119$

Absolute Open Flow 1119 Mcfd @ 15.025 Angle of Slope @ 45° Slope, n 1.000

Remarks: PUMPING WELL - ONE POINT TEST

Approved by Division _____ Conducted by [Signature] Calculated By: [Signature] Checked By: _____

H.O.F. BACKPRESSURE GRAPH

WILLIAM WEIR LEASE

WELL NO. 5

EUMONT YATES 7 RIVERS

LEA CO., N.M.

$H_e - P_w$ (THOUSANDS)

1000

100

10
100

1000

VOLUME: MCFD

AOB : 1119 MCFD

θ : 45°

n : 1.000