

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8-13-90	
Company TEXACO PRODUCING INC				Connection SALES		
Pool EUMONT YATES 7 RVRS				Formation PENROSE		Unit
Completion Date 8-9-90		Total Depth 3600'		Plug Back TD 3590'		Elevation 3575'
Farm or Lease Name STATE H						
Csg. Size 3.5	Wt. 15.5	d 4.95	Set At 3600	Perforations: From 3408 To 3553		Well No. 3
Thg. Size 2.375	Wt. 4.7	d 1.995	Set At 3403	Perforations: From To		Unit Sec. Twp. Rge. L-32-19S-37E
Type Well - Single - Bradenhead - G.C. or G.O. Multiple GG SINGLE				Packer Set At NONE		County LEA
Producing Thru TUBING		Reservoir Temp. °F 108		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2
State NEW MEXICO						
L 3553	H 3553	G _g .723	% CO ₂ 7.11	% N ₂ 2.37	% H ₂ S .04	Prover Meter Run 2.067
						Taps Flange

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
SI							300				72
1.	2.067 X	1.5		32	53	81	32	70	32	70	1
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	12.76	48.94	45.2	.9804	1.176	1.013	728
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.2	541	1.41	.974	0	0	.723	XXXXXX	695	383
2.										
3.										
4.										
5.										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	2	44.7	2	96.1
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0208$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0208$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 743$

P_c 313.2 P_c² 98.1

Absolute Open Flow	743	Mcf @ 15.025	Angle of Slope °	45°	Slope, n	1.000
Remarks:						

Approved By Division	Conducted By: J.W. Mc Mahan / mm	Calculated By: T.R. Morgan	Checked By:
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