

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-29-76	
Company TEXACO, Inc.				Connection Separator test			
Pool Basin				Formation Dakota		Unit	
Completion Date 12-19-76		Total Depth 6358		Plug Back TD 6318		Elevation 5656	
Farm or Lease Name H.J Loe Federal B				Well No. 2R			
Csg. Size 5 1/2"	Wt. 14 & 15.5	d 6358	Set At	Perforations: From 6174 To 6312		Unit 2R	
Thg. Size 2"	Wt. 4.7	d 1.995	Set At	Perforations: From To		Unit G 23 29N 12W	
Type Well Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 152 @ 6358		Mean Annual Temp. °F 60		Baro. Press. - P _a 12	
State N. Mexico							
L 6256	H 6256	G _g .67	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 3" Taps FLG

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							945		968		8 Days
1.	3"		1 1/4"	405	7.3	100	460		563		50 Min.
2.	3"		1 1/4"	330	6.2	95	272		472		55 Min.
3.	3"		3/4"	280	42.3	82	265		467		55 Min.
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	34.56	54.37	405	.9636	1.222	1.032	506
2	34.56	45.23	330	.9679	1.222	1.030	424
3	21.84	85.32	280	.9795	1.222	1.028	655
4							
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 16.88 Mcf/bbl.
1	.762	579	1.516	.924	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.458	579	1.516	.953	Specific Gravity Separator Gas 0.67 XXXXXXXXXX
3	.446	579	1.516	.954	Specific Gravity Flowing Fluid XXXXXXXX
4					Critical Pressure 669 P.S.I.A. _____ P.S.I.A.
5					Critical Temperature 382 R _____ R

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.094$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.071$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 701$
1	222.8	472	222.8	670.2	
2	806.6	284	806.6	812.4	
3	767.3	277	767.3	816.3	
4					

Absolute Open Flow 701 Mcfd @ 15.025		Angle of Slope 52.6° Slope, n .764	
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Remarks: **Middle point is erroneous**

Approved By Commission:	Conducted By: D.J. Krause	Calculated By: D.J. Krause	Checked By: W.G. Welch
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