

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

Form G-122
Revised 1-9-65

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 8-25-75	
Company: Texaco, Inc.				Connection: Separator Test	
Basin: Basin				Formation: Dakota	
Test Date: 8-25-75		Total Depth: 6085		Perforations: 6039	
Elevation: 6485		Form or Lease Name: Navajo Allottees M			
Test Date: 5-9/16	Wt. 15.63	d	Set At 6085	Perforations: From 5905 To 5932	
Test Date: 2-3/8	Wt. 4.6	d	Set At 5867	Perforations: From 5867 To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At	
Single				No	
Producing Thru Tubing		Reservoir Temp. °F 135 @ 6034		Mean Annual Temp. °F 60	
				Baro. Press. - P _a 12	
County: San Juan		State: New Mexico			
L 6085	H 6085	G _g .65 est	% CO ₂ -	% N ₂ -	% H ₂ S -
Prover -		Meter Run 3"		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
1	3"		1.75	398	72.8	80	1080	80	1289	80	7 Days 3 Hrs.
2											
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	15.61	172.8	410	.9813	1.240	1.038	3407
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 149,000 Mcf/bbl.
1	.612	540	1.44	.9284	A.P.I. Gravity of Liquid Hydrocarbons 54.9 Deg.
2					Specific Gravity Separator Gas .650 X X X X X X X X
3					Specific Gravity Flowing Fluid .670 X X X X X
4					Critical Pressure 670 P.S.I.A. 669 P.S.I.A.
5					Critical Temperature 375 °R 382 °R

NO.	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.236$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.828$
1	1301	1692601	1369899		
2					
3					
4					
5					

AOP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6229$				Angle of Slope θ	
6229 Mcfd @ 15.025				Slope $\theta = 0.75$	

Approved By Commission:		Conducted By: R.L. Morris		Calculated By:	
		C.G. Hogue & J.H. Pfeifer		R. L. Morris	