NEW XICO OIL CONSERVATION COMMSSI(

Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 7-23-84	
Company: TEXACO Inc.		Connection: None			Unit:
Pool: Wildcat		Formation: Morrow			
Completion Date: 7-23-84	Total Depth: 12313	Plug Back TD: 11,125	Elevation: 3972 DF		Farm or Lease Name: Perry Fed.
Csg. Size: 7 / Wt.: 32.0 / d: 6.094	Set At: 12312	Perforations: From 9932 To 9940			Well No.: 2
Tbg. Size: 2.875 / Wt.: 6.45 / d: 2.469	Set At: 9835	Perforations: From To			Unit: O / Sec.: 29 / Twp.: 15S / Rge.: 30E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single Gas		Packer Set At: 9835			County: Chaves
Producing Thru: Tubing	Reservoir Temp. °F: 139 @ 9936	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
9936	9936	0.736	0.143	2.212	0.0		3.068	Flange

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI					2430	70			72 +
1.	3 x 1.750	111.7	4.4	54	2322	72			1 hour
2.	3 x 1.750	331.2	16.0	64	2047	72			1 hour
3.	3 x 1.750	303.0	33.6	68	1945	72			1 hour
4.	3 x 1.750	345.7	47.6	73	1752	72			1 hour
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	15.61	23.5	124.9	1.0058	1.166	1.024	469
2.	15.61	74.2	344.4	0.9962	1.166	1.072	1539
3.	15.61	103.1	316.2	0.9924	1.166	1.063	2113
4.	15.61	130.7	358.9	0.9877	1.166	1.070	2.683
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	0.19	514	1.13	0.953
2.	0.53	524	1.16	0.870
3.	0.48	528	1.17	0.884
4.	0.55	333	1.18	0.873
5.				

Gas Liquid Hydrocarbon Ratio 12.6 Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons 63.1 Deg.

Specific Gravity Separator Gas	0.736	xxxxxxxxx
Specific Gravity Flowing Fluid	xxxxx	0.938
Critical Pressure	660 P.S.I.A.	654 P.S.I.A.
Critical Temperature	388 R	453 R

P_c 2443 P_c^2 5969.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	5453.2	2337	5462.7	506.5
2	4244.4	2068	4275.9	1693.3
3	3834.5	1971	3884.2	2085.0
4	3115.9	1785	3186.8	2782.4
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.145$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.145$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5755$

Absolute Open Flow 5755 Mcfd @ 15.025 Angle of Slope θ 45 Slope, n 1

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	R. E. Lee	Computer	R. Frank Gray