NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 2-28-84	
Company: ARCO Oil and Gas Company			Connection: Phillips		
Pool: Eumont			Formation: Eumont Queen Gas		Unit
Completion Date: 6-8-83	Total Depth: 6127		Plug Back TD: 3650	Elevation: KB 3531	Farm or Lease Name: State L Btty. 5
Csg. Size: 5.5 / Wt.: 15.5 / d: 4.950 / Set At: 6127			Perforations: From 3413 To 3557		Well No.: 7
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 3203			Perforations: From Open To Ended		Unit: C / Sec.: 3 / Twp.: 21S / Rge.: 36E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 3203		County: Lea
Producing Thru: Tbg.	Reservoir Temp. °F: @	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
3203	3203	.6785	2.85	.543	–		4"	Flg.

	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					178		Pkr.		48
1.	4 x 1.750	14.18	1.805	39	166	39	Pkr.		24
2.	4 x 1.750	14.55	3.92	42	153	42	Pkr.		24
3.	4 x 1.750	15.075	8.00	46	141	46	Pkr.		24
4.	4 x 1.750	16.445	18.0	53	114	53	Pkr.		24
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	14.93	7.03	27.38	1.021	1.214	Nil	130
2.	14.93	10.43	27.75	1.018	1.214	Nil	192
3.	14.93	15.04	28.275	1.014	1.214	Nil	276
4.	14.93	23.1	29.645	1.007	1.214	Nil	422
5.							

NO.	P_t	Temp. °R	T_r	Z
1	.04	499	1.33	Nil
2.	.04	502	1.34	Nil
3.	.04	506	1.35	Nil
4	.04	513	1.37	Nil
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Dry Deg.
Specific Gravity Separator Gas: .6785 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX Dry Gas
Critical Pressure: 680 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 374 R ____ R

*P_c 220.2 P_c^2 48.5

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	*	210.2	44.2	4.3
2	*	203.2	41.3	7.2
3	*	189.2	35.8	12.7
4	*	165.2	27.3	21.2
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.288$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.845$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 779$

Absolute Open Flow: 779 Mcfd @ 15.025 Angle of Slope θ: 53° 29' Slope, n: .740

Remarks: *BHP measured at mid-perfs 3485
Well did not produce any liquids (dry gas)

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	J. Cogburn	J. Cogburn	L. Henson