OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 8750.

RECEIVED
FEB 07 1991
O. C. D.
ARTESIA, OFFICE

Form C-12
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 7-24-89	
Company: The Eastland Oil Co. ~~FRED POOL DRILLING CO.~~		Connection: AIR			
Pool: Four Ranch Pre-Permian		Formation: ~~WOLFCAMP~~ Pre-Permian		Unit	
Completion Date: 7-22-89	Total Depth: 5379	Plug Back TD: 5359	Elevation: 3808	Farm or Lease Name: EASTLAND St.	
Csg. Size: 5½ / Wt. / d / Set At: TD		Perforations: From 5280 To 5290		Well No.: 4	
Tbg. Size: 2-3/8 / Wt. / d / Set At: 5244		Perforations: From To		Unit: D / Sec.: 13 / Twp.: 9 / Rge.: 26	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: MULTIPLE		Packer Set At: 5244		County: CHAVES	
Producing Thru: TUBING	Reservoir Temp. °F: e	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: NM	
L / H	Gg: .61	% CO_2 / % N_2 / % H_2S	Prover: 2	Meter Run / Taps	

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						1145		850		
1.	2	3/32	1105		60	1105		850		1 HR.
2.	2	3/16	925		60	925		860		"
3.	2	1/4	797		60	797		860		"
4.	2	3/8	450		60	450		860		"
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	.141		1118.2	1.000	1.2804	1.104	223
2.	.0682		938.2	1.000	1.2804	1.087	794
3.	1.087		810.2	1.000	1.2804	1.074	1212
4.	2.378		463.2	1.000	1.2804	1.041	1468
5.							

NO.	P_t	Temp. °R	T_r	Z
1				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1252.2 P_c^2 1568.6

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1212	1468	100
2		1021	1042	526
3		893	797	771
4		536	288	1280
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 1.2255 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.1624

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1706

Absolute Open Flow 1706 Mcfd @ 15.025 | Angle of Slope θ 53.5 | Slope, n .74

Remarks: ALL BOTTOM HOLE PRESSURES DONE WITH AMERADA TYPE GAUGE

Approved By Division	Conducted By:	Calculated By:	Checked By:
	KELTIC SERVICES	MIKE KELLY	