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: 8-22-85	
Company: WESTERN EQUIPMENT COMPANY	Connection: Warren Petroleum			
Pool: PEARL SEVEN RIVERS (Gas)	Formation: Seven Rivers			Unit
Completion Date: 7-8-85	Total Depth: 4980	Plug Back TD: 4600	Elevation: 3716 DF	Farm or Lease Name: ~~State~~ Lea "K" State
Csg. Size: 5 1/2" / Wt.: 15.5 / d: 4.950 / Set At: 4980		Perforations: From 3927 To 4008		Well No.: 1
Tbg. Size: 2 3/8" / Wt.: 4.7 / d: 1.995 / Set At: 4576		Perforations: From 4573 To 4579		Unit: L / Sec.: 36 / Twp.: 19S / Rge.: 34E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual – Tbg. Queen; Annulus Seven Rivers		Packer Set At: 4046		County: Lea
Producing Thru: Annulus	Reservoir Temp. °F: @	Mean Annual Temp. °F	Baro. Press. – P_a	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	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	2	x .500	500			PKR		1250		1 hr.
1.	"	"	"	8	20			1200	20	"
2.	"	"	"	21	20			1160	20	"
3.	"	"	"	62	20			1080	20	"
4.	"	"	"	89	20			980	20	"
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	2.709	171	513.2	1.041	1.2	1.2	257
2	"	278	"	"	"	"	416
3	"	477	"	"	"	"	715
4	"	571	"	"	"	"	857
5							

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

Gas Liquid Hydrocarbon Ratio: None Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: None Deg.
Specific Gravity Separator Gas: .6943 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: ____ P.S.I.A. ____ P.S.I.A.
Critical Temperature: ____ R ____ R

P_c 1263.2 P_c^2 1596

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	1213.2		1472	124
2	1173.2		1376	220
3	1093.2		1195	401
4	993.2		986	610
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.342$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.097$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2129$

Absolute Open Flow: 2129 (3rd Rate) Mcfd @ 15.025 Angle of Slope θ: ____ Slope, n: .790

Remarks: ____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	DURCO, Pat Smith	Durco	