STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

RECEIVED
APR 15 1993
OIL CON. DIV.
DIST. 3

Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 4-8-93	
Company: Caulkins Oil Company				Connection:		Unit:
Pool: Basin Fruitland Coal				Formation: Fruitland Coal		
Completion Date: 4-1-93	Total Depth: 3000'			Plug Back TD: 3000'	Elevation: 6546	Farm or Lease Name: Breech E
Csg. Size: 5 1/2" / Wt.: 15.50 / d: 4.950 / Set At: 3000'				Perforations: From 2914' To 2934'		Well No.: 602
Tbg. Size: 2 3/8" / Wt.: 4.70 / d: 1.995 / Set At: 2925'				Perforations: From 2925' To		Unit: N / Sec.: 5 / Twp.: 26N / Rge.: 6W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single				Packer Set At:		County: Rio Arriba
Producing Thru: Tubing	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					347		351		7 days
1.					125		217		3 hours
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	14.1605		137	1.000	1.000	1.000	1,940
2.							
3.							
4.							
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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 363 P_c^2 131,769

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	18,769	229	52,441	79,328
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 1.661 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.539

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 2,986

Absolute Open Flow 2,986 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

Approved By Division | Conducted By: | Calculated By: | Checked By: