

NEW MEXICO OIL CONSERVATION COMMISSION

ILLEGIBLE

FORM C-122

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

APR -1 1955

Pool Cawker Formation San Juan County LeaInitial X Annual Special Date of Test 2/24/55Company Sinclair Oil Co. Lease Well No. Unit Sec. 19 Twp. Rge. Purchaser Oil Co. Bldg. Casing 7 7/8 Wt. I.D. Set at Perf. To Tubing 2 7/8 Wt. 6.5 I.D. 2.441 Set at Perf. To 4200 ft. Gas Pay: From 4800 To 4200 xG Bar. Press. 13.2Producing Thru: Casing Tubing Type Well SingleDate of Completion: Packer Reservoir Temp.

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps Flt.

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1500				12.5
1.	3	1.525	450	2	40	792				3
2.	3	1.535	450	3	50	830				2
3.	3	1.545	470	5	50	870				3
4.	2	1.525	491	7	50	911				3
5.	3	1.525	420	3	51	809				21

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	17.08	20.44	482.2	1.247	0.712	1.000	71.1
2.	17.08	20.44	482.2	1.247	0.712	1.000	71.1
3.	17.08	20.44	482.2	1.247	0.712	1.000	71.1
4.	17.08	20.44	482.2	1.247	0.712	1.000	71.1
5.	17.08	20.44	482.2	1.247	0.712	1.000	71.1

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 2.200 cf/bbl.
 Gravity of Liquid Hydrocarbons 50.5 deg.
 P_c 5.866 ($1-e^{-S}$) 157

Specific Gravity Separator Gas 0.70
 Specific Gravity Flowing Fluid 0.81
 P_c 1.110 P_s 1.110

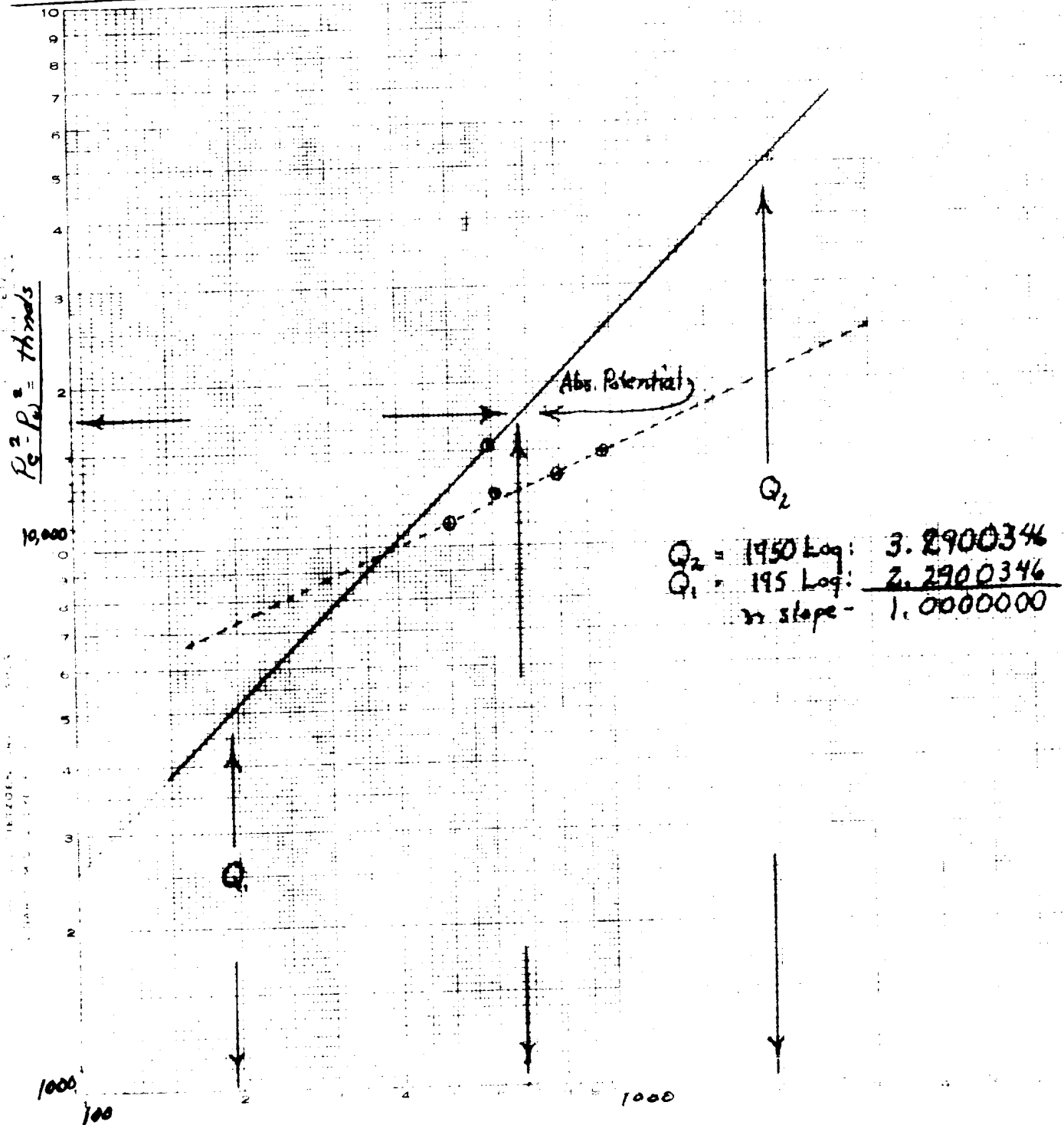
No.	P_w P_t (psia)	P_c^2	$P_c Q$	$(P_c Q)^2$	$(P_c Q)^2 (1-e^{-S})$	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	P_w / P_c
1.	695.2	632.31	2.929	8.579	8.579	483.3	154.0	695.2	0.712
2.	693.2	630.3	2.929	8.579	8.579	481.3	152.0	693.2	0.712
3.	691.2	628.3	2.929	8.579	8.579	479.3	150.0	691.2	0.712
4.	689.2	626.3	2.929	8.579	8.579	477.3	148.0	689.2	0.712
5.	687.2	624.3	2.929	8.579	8.579	475.3	146.0	687.2	0.712

Absolute Potential: 675.7 MCFPD; n Used 1.00000 24 repointCOMPANY Sinclair Oil Co.ADDRESS Mr. Fred Rogers, Box 277, Hobbs, TexasAGENT AND TITLE Mr. Fred Rogers, Int. Box 277, Hobbs, New MexicoWITNESSED NoneCOMPANY

REMARKS

Sinclair O & G Co.
 Federal Kelly A Well No. 2
 Unit G Section 14-9S-38E
 Lea County
 February 2/8 - 15/63

ILLEGIBLE



$Q - \text{MCFPD} - 15.025 \text{ P3ia}$

Note: N slope flat therefore slope of 1.0000
 drawn through 24 hr point WLL.