

*John Allison Per 8/21/57 very
1200 before 20 ch. one
for cross sections*

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

HOBBBS OFFICE

COUNTY Roosevelt No. 17

Blair

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesigned Formation Abo County Roosevelt

Initial X Annual _____ Special _____ Date of Test 10/6-11/59

Company H.L. Brown Jr. & Glen E. George Lease Federal N.M. 021097 'A' Well No. 1

Unit K Sec. 33 Twp. 7S Rge. 37E Purchaser None

Casing 5" Wt. 17 I.D. _____ Set at P.B. 8140'
8150' Perf. 8022' To 8124'

Tubing 2" Wt. 4.74 I.D. 1.995 Set at 8127' Perf. Open End To _____

Gas Pay: From 8022 To 8124 L 8127 xG mix .775 -GL 6298 Bar. Press. 13.2

Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 10-4-59 Packer 7928' Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) ~~(CHOKE)~~ Type Taps _____

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
SI						2142			72
1.	2	3/8	486		28	1970	80		3
2.	2	3/8	850		48	1882	80		3
3.	2	5/8	390		35	1644	80		3
4.	2	5/8	465		48	1397	84		3
5.	2	5/8	285		20	1976	84		24

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor Ft	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	3.0691		499.2	1.0323	.9319	1.000	1.474
2.	3.0691		863.2	1.0117	.9319	1.124	2.807
3.	8.3555		403.2	1.0249	.9319	1.000	3.218
4.	8.3555		478.2	1.0117	.9319	1.064	4.008
5.	8.3555		293.2	1.0408	.9319	1.000	2.417

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 26,856 cf/bbl. Specific Gravity Separator Gas .692
 Gravity of Liquid Hydrocarbons .76 deg. Specific Gravity Flowing Fluid .775
 P_c 9.936 (1-e⁻⁸) 0.352 P_c 2155.2 P_c 4644.9

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸)	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	1983.2	2933	14,546	211.51	75.51	4008.6	635.3	2002.14	92.9
2.	1895.2	3592	27,890	777.95	273.80	3865.6	779.3	1956.11	91.2
3.	1657.2	2746	31,974	1022.34	359.86	3106.2	1538.7	1762.44	81.8
4.	1410.2	1989	39,823	1585.87	558.23	2546.9	2098.0	1595.92	74.0
5.	1989.2	3957	24,015	576.72	203.01	4159.9	485.0	2039.61	94.6

Absolute Potential: 7,469 MCFPD; n .496

COMPANY Sinclair Oil & Gas Co.

ADDRESS Mr. Fred Rogers Box 1470 Midland Texas

AGENT and TITLE W.R. Lord Gas Analyst Box 2431 Hobbs New Mex.

WITNESSED _____

COMPANY _____

REMARKS

Three Points in Line But Slope too Steep. Therefore 63.5 Deg. Angle Drawn
 24 Hour Point. would suggest Re-Test Before Submitting To Comm.

No H₂S -- GFM --.133

RECEIVED

OCT 19 1959

COMPANY H.L. Brown Jr. & Clem E. George
 WELL Federal N.M. 021097 'A' No.
 LOCATION Unit K Sec. 33-75-37E
 COUNTY Roosevelt
 DATE 10/6-10/11/59

