

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Jaimit Formation Yates County El Paso State 157 E Well No. 1

Initial Annual Special X Date of Test 4-1-60

Company Sinclair Oil & Gas Co Lease State 157 E Well No. 1

Unit 6 Sec. 32 Twp. 24 S Rge. 37 E Purchaser El Paso Nat. Gas Co.

Casing 7" Wt. 24.0# I.D. Set at 3422 Perf. 2995 To 3090

Tubing 2" Wt. 4.7# I.D. 1.995 Set at 3070 Perf. To

Gas Pay: From 2995 To 3090 L 3070 xG .654 -GL 2008 Bar. Press. 13.2

Producing Thru: Casing Tubing X Type Well Single

Date of Completion: 10-18-49 Packer None Reservoir Temp. Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

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

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.	
1.	4	1.000	320	9.61	73	455		455		72
2.	4	1.000	266	18.92	73	323		350		24
3.	4	1.000	201	32.49	78	268		283		24
4.	4	1.000	150	44.22	66	204		223		24
5.						154		177		24

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.	6.135	58.59	333.2	.9877	.9578	1.031	338.6
2.	6.135	72.68	279.2	.9877	.9578	1.025	432.3
3.	6.135	83.42	214.2	.9831	.9578	1.019	491.0
4.	6.135	84.95	163.2	.9943	.9578	1.015	503.7

PRESSURE CALCULATIONS

Liquid Hydrocarbon Ratio - - - cf/bbl.

Gravity of Liquid Hydrocarbons Dry deg.

Measured (1-e⁻⁸)

Specific Gravity Separator Gas .654

Specific Gravity Flowing Fluid Dry

P_c 468.2 P_c² 219.2

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	P _w /P _c
336.2	113.0				131.9	87.1	336.2	1.00
281.2	79.1				87.7	131.5	281.2	0.83
217.2	47.2				55.8	163.4	217.2	0.64
167.2	27.9				36.2	183.0	167.2	0.47

Absolute Potential: 585 MCFPD; n .583

COMPANY Sinclair Oil & Gas Co.

ADDRESS Mr. Fred Rogers Box 1470 Midland Texas

TEST and TITLE W.R. Land Gas Analyst Box 2431 Hobbs N.M.

WITNESSED John R. Rode

COMPANY

REMARKS

Well on Compressor during test.