

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Tubb Gas Formation Tubb County LeaInitial Annual Special X Date of Test Nov. 13-17, 1961Company TEXACO Inc. Lease A. H. Blinebry NCT-4 Well No. 1 M. ZoneUnit P Sec. 31 Twp. 22S Rge. 38E Purchaser El Paso Natural Gas CompanyCasing 7" OD Wt. 23.0 I.D. 6.366 Set at 7105 Perf. 6100 To 6220UT 2-3/8 4.7 I.D. 1.995 Set at 5497Tubing 1 1/2-3/8 Wt. 4.7 I.D. 1.995 Set at 6897 Perf. To Gas lay: From 6100 To 6220 L 6100 xG .837 -GL 5106 Bar. Press. 13.2Producing Thru: Casing X Tubing Type Well Triple Gas-Oil-OilDate of Completion: July 28, 1959 Packer Single-Bradenhead-G. G. or G.O. Dual

Producing through annulus that has two 2-3/8 OD strings tubing.

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps Flange

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								1614		72
1.	4.026	1.250	508	3.8	60			1352		24
2.	4.026	1.250	510	13.0	69			1230		24
3.	4.026	1.250	520	26.0	72			1071		24
4.	4.026	1.250	518	57.0	62			1068		24
5.										

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.	9.643	44.50	521.2	1.0000	.9252	1.064	422.4
2.	9.643	82.47	523.2	.9915	.9252	1.066	777.7
3.	9.643	117.70	533.2	.9887	.9245	1.062	1102.0
4.	9.643	174.00	531.2	.9981	.9352	1.068	1673.0
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 18,226 cf/bbl.
Gravity of Liquid Hydrocarbons 53.3 deg.
c 1.035 (1-e^{-s}) .296Specific Gravity Separator Gas .696
Specific Gravity Flowing Fluid .837
P_c 1627.2 P_c² 2648

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.	1365.2	1864	.4372	.1911	.0566	1864	784	1365	.8389
2.	1243.2	1545	.8049	.6479	.1918	1545	1103	1243	.7639
3.	1084.2	1175	1.1400	1.3000	.3848	1175	1473	1084	.6662
4.	1081.2	1170	1.7310	2.9960	.8868	1171	1477	1082	.6649
5.									

Absolute Potential: 3000 MCFPD; n 1.00COMPANY TEXACO Inc.ADDRESS P. O. Box 1270, Midland, TexasAGENT and TITLE F. W. Moore, District Gas ForemanWITNESSED R. A. MikelCOMPANY El Paso Natural Gas Company

No.	Cond. Gr.	Gas Gr.	Cond. Ebls.	Water	Gas	GOR	Shut-in Pres. PSIG
1	54.3	.702	20.7	0	422.4	20,406	24 Hr. 1565
2	51.6	.701	49.0	0	777.7	15,871	48 Hr. 1595
3	53.0	.702	56.6	0	1102.0	19,470	72 Hr. 1614
4	54.2	.686	91.8	0	1673.0	18,224	
Avg.	53.3	.696					