

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota Formation Dakota County San Juan
Initial _____ Annual _____ Special X Date of Test 4-26-65
Company Texaco Inc. Lease Gov't "E" Well No. 1
Unit _____ Sec. 15 Twp. 28N Rge. 13W Purchaser _____
Casing 4 1/2 Wt. 9.5 I.D. 4.09 Set at 6477 Perf. 6390 To 6417
6322 6334
Tubing 2 3/8 Wt. 4.7 I.D. 1.99 Set at 6409 Perf. open end To _____
Gas Pay: From 6322 To 6417 L 6409 xG .700 -GL 4486 Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well Single Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 4-27-65 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) 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	Temp. °F.	
1.		.750	98		82°	883		1810		3 hrs
2.						98		928		
3.										
4.										
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.	12.365		110	.9804	.9258		1,236
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1822 P_c² 3,319,684

No.	$\frac{P_w}{P_t}$ (psia)	P _t ²	F _c Q	(F _c Q) ²	$\frac{(F_c Q)^2}{(1-e^{-s})}$	P _w ²	P _c ² -P _w ²	Cal. P _w	$\frac{P_w}{P_c}$
1.						883,600	2,436,034		
2.									
3.									
4.									
5.									

Absolute Potential: 1,559 MCFPD; n .75
COMPANY Texaco Inc.
ADDRESS P. O. Box 810, Farmington, New Mexico
AGENT and TITLE D. G. Farmer District Superintendent
WITNESSED _____
COMPANY _____

REMARKS

$$(1.363) \cdot .75 = 1.2614$$

