

NEW MEXICO OIL CONSERVATION COMMISSION

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota Formation Dakota County San Juan
Initial ✓ Annual Special Date of Test 9-15-61
Company Texaco Inc Lease L. M. Barton Well No.
Unit F Sec. 12 Twp. 30 N Rge. 12 W Purchaser
Casing 7" 26" 6.28 4790 6532 6588 6604 To 6534 6596 6636
Tubing 2 3/8 Wt. 4.7 I.D. 1.99 Set at 6485 Perf. To
Gas Pay: From 6532 To 6636 L 6485 xG .700 -GL 4540 Bar.Press.
Producing Thru: Casing Tubing X Type Well Dual Gas-Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 9-15-61 Packer Set @ 6485 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.	
SI						1750				7 Days
1.	2	3/4"				176	75°			3 hours
2.										
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		188	.9859	.9258	1.019	2,162
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
P_c 9402 (1-e⁻⁸) .281

Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
P_c 1762 P_c 3104

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.	18	35.34	20.33	413.2	116.1	151.5	3854		381
2.									
3.									
4.									
5.									

Absolute Potential: 2,305 MCFPD; n .75COMPANY Texaco IncADDRESS Box 810 Farmington, N. M.AGENT and TITLE David L. Collins District Gas ManWITNESSED COMPANY

REMARKS

(1088)^{.75} = 1.066

