

NEW MEXICO OIL CONSERVATION COMMISSION

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-61

Pool Blanco Formation Mesa Verde County San Juan
 Initial ✓ Annual Special Date of Test 9-8-61
 Company Lease L. M. Barton Well No. 1
 Unit F Sec. 12 Twp. 30 N Rge. 12 W Purchaser
 Casing 7" Wt. 26 I.D. 6.28 Set at 4790 Perf. 4412 To 4440
4542 To 4562
 Tubing 2 3/8" Wt. 4.7 I.D. 1.99 Set at 4400 Perf. open end To
 Gas Pay: From 4412 To 4562 L 4400 xG -GL 660 Est. Bar. Press.
 Producing Thru: Casing Tubing X Type Well Gas-Gas Dual
Single-Bradenhead-G. G. or G.O. Dual
 Date of Completion: 9-8-61 Packer Set @ 6485 Reservoir Temp.

OBSERVED DATA

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.						1239		1240		7 Days
2.	2"	.75"				142	77°	421		3 hours
3.										
4.										
5.										
6.										

FLOW CALCULATIONS

	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		154	9840	9535	1.014	1813
2.							
3.							
4.							
5.							
6.							

PRESSURE CALCULATIONS

Liquid Hydrocarbon Ratio cf/bbl.
 Gravity of Liquid Hydrocarbons deg.
 (1-e⁻⁸)
 Specific Gravity Separator Gas
 Specific Gravity Flowing Fluid
 P_c 1240 P_c² 1537.6

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.	433					187.5	1352.0		
2.									
3.									
4.									
5.									

Absolute Potential: 2,013 MCFPD; n .75
 COMPANY Texaco Inc
 ADDRESS Box 810 Farmington N. M.
 AGENT AND TITLE David L. Collis Dist. Gas Man
 WITNESSED
 COMPANY

REMARKS

$$(1.137)^{.75} = 1.1101$$



