

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Atoka County Roosevelt

Initial I Annual Special Date of Test March 19, 1964

Company Lone Star Producing Company Lease Federal N. M. "B" Well No. 1

Unit N Sec. 21 Twp. 8-S Rge. 36-E Purchaser

Liner 3 1/2" 9.34 2.992 9,476'-12,300' 12,057' 12,082'

Casing 7" Wt. 23.26 I.D. 6.276 Set at 9,769' Perf. -- To --

Tubing 2-3/8" Wt. 4.74 I.D. 1.995 Set at 11,972' Perf. -- To --

Gas Pay: From 12,053' To 12,087' L 12,053' xG .921 -GL 11,101 Bar.Press. 13.2

Producing Thru: Casing -- Tubing I Type Well Single

Date of Completion: March 9, 1964 Packer 11,972 Reservoir Temp. 186°

OBSERVED DATA

Tested Through (XEROX) (XEROX) (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						2194				70 hrs.
1.	3	1.750	48	77	25°	710		-	-	24 hrs.
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	20.15	68.65	61.2	1.0355	.8715	1.005	1,255
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 18,981 cf/bbl.
Gravity of Liquid Hydrocarbons 53 deg.
F_c 9.936 (1-e^{-S}) .535

Specific Gravity Separator Gas .790
Specific Gravity Flowing Fluid .921
P_c 2507.2 P_c² 6286.1