

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Otero Formation Pictured Cliff County Rio Arriba
Initial X Annual _____ Special _____ Date of Test Oct. 19, 1957
Company PURCO PETROLEUM CORPORATION Lease Otero Federal Well No. 1
Unit J Sec. 14 Twp. 24N Rge. 6W Purchaser El Paso Natural Gas Company
Casing 5 1/2" Wt. 14 I.D. _____ Set at 2276 KB Perf. 2104 To 2166
Tubing 1" Wt. 1.7 I.D. _____ Set at 2156 Perf. 2116 To 2152
Gas Pay: From 2104 To 2166 L 2116 xG .640 -GL 1354 Bar.Press. 12
Producing Thru: Casing _____ Tubing X Type Well single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 10-12-57 Packer _____ Reservoir Temp. 98

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. 60° °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.	2"	3/4	18		60	695 18	60	695 265	60	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		30	1.00	1.0077	1.007	377
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons .093 deg.
F_c _____ (1-e^{-s})

Specific Gravity Separator Gas .640
Specific Gravity Flowing Fluid _____
P_c 695 P_c² 483,025

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.	30	900				76,729	695 ² -277 ² 406,296		
2.									
3.									
4.									
5.									

Absolute Potential: 436 MCFPD; n .85

COMPANY PURCO PETROLEUM CORPORATION
ADDRESS 106 West Canada, Artes, New Mexico
AGENT and TITLE M. L. Seelinger, Dist. Engr.
WITNESSED _____
COMPANY _____

REMARKS



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