

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Astec Formation Pictured Cliffs County San Juan
Initial X Annual _____ Special _____ Date of Test 7-23-57
Company PURCO PETROLEUM CORPORATION Lease Federal Well No. 14-3
Unit M Sec. 14 Twp. 30N Rge. 11W Purchaser El Paso Natural Gas Company
Casing 7" Wt. 23 1/2 I.D. 6.316 Set at 2497 Perf. 2390 To 2420
Tubing 1" Wt. 1.7 I.D. _____ Set at 2427 Perf. 2384 To 2427
Gas Pay: From 2390 To 2420 L _____ xG _____ -GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 7-23-57 Packer none Reservoir Temp. 95°F

OBSERVED DATA

Tested Through (REGULOR) (Choke) (WATERS) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(<u>REGULOR</u>) (Line) Size	(Choke) (<u>WATERS</u>) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.	<u>2"</u>	<u>3/4"</u>	<u>67</u>		<u>60°</u>	<u>67</u>	<u>60°</u>	<u>544</u>	<u>60°</u>	<u>3 hours.</u>
2.					<u>0</u>	<u>601 SI</u>		<u>601 SI</u>		<u>7 day SI</u>
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wDf}}$	Pressure psia	Flow Temp. Factor 60° F _t	Gravity Factor 640 F _g	Compress. Factor 640 psia 79° F _p	Rate of Flow Q-MCFPD @ 15.025 psia
1.	<u>12.3670</u>		<u>79</u>	<u>1.0</u>	<u>1.0077</u>	<u>1.007</u>	<u>991</u>
2.							
3.			<u>976.84</u>		<u>984,362</u>		
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})
Specific Gravity Separator Gas .640
Specific Gravity Flowing Fluid _____
P_c 613 psia P_c² 375.769

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 <u>544-556</u>	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						<u>309.136</u>			
2.									
3.									
4.									
5.									

Absolute Potential: 4311 MCFPD; n 85
COMPANY PURCO PETROLEUM CORPORATION
ADDRESS 106 West Chuska, Astec, New Mexico
AGENT and TITLE H. E. Maxwell, Jr., Mgr. Prod. Dept.
WITNESSED H. E. Maxwell, Jr.
COMPANY Purco Petroleum Corp.

REMARKS



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