

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 4-6-56
Company Astec Oil & Gas Company Lease Nare Well No. 2
Unit F Sec. 3 Twp. 29-N Rge. 10-W Purchaser - -
Casing 5 1/2" Wt. 11# I.D. _____ Set at 2476' Perf. 2302 To 2314
2319
Tubing 1" Wt. 1.7# I.D. _____ Set at 2339 Perf. 2318 To 2329
Gas Pay: From 2302 To 2336 L _____ xG 0.65 -GL _____ Bar.Press. _____
Producing Thru: Casing X Tubing _____ Type Well Single - Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 3-30-56 Packer Nare Reservoir Temp. _____

OBSERVED DATA

Tested Through (Packer) (Choke) (Valve) ? day shut-in 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.	
SI								
1.		<u>3/4</u>				<u>67h</u>	<u>60</u>	<u>3 hours</u>
2.						<u>226</u>	<u>60</u>	
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.	<u>12.3650</u>		<u>238</u>	<u>1.0</u>	<u>0.961</u>	<u>1.025</u>	<u>2898</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

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

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c _____ P_c² _____

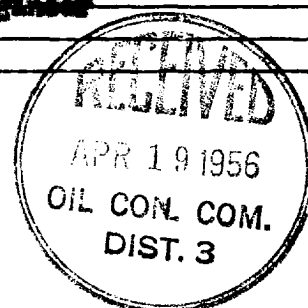
No.	$\frac{P_w}{P_t}$ (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	$\frac{P_w}{P_c}$
1.						<u>56.6</u>	<u>414</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 3210 MCFPD; n 0.85

COMPANY ASTEC OIL & GAS COMPANY
ADDRESS P O Box 786, Farmington, New Mexico
AGENT and TITLE ORIGINAL SIGNED BY BILL R. HASTINGS, Production Engineer
WITNESSED _____
COMPANY _____

REMARKS

Temperature estimate: 60 degrees F
Gravity estimate: 0.65



OIL CONSERVATION COMMISSION	
ATTENTION OFFICE	
No.	3
DATE	
TO	
FROM	
SUBJECT	
REMARKS	1
APPROVED BY	1
SPECIAL AGENT IN CHARGE	✓