

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 4-19-56
Company Astec Oil & Gas Company Lease Grandier Well No. 1-2
Unit 0 Sec. 4 Twp. 29-N Rge. 10-W Purchaser _____
Casing 5 1/2" Wt. 21 1/2 I.D. - - Set at 2447' Perf. 2370 To 2376
2396 To 2414
Tubing 1" Wt. 1.78 I.D. - - Set at 2390' Perf. 2369 To 2380
Gas Pay: From 2370 To 2414 L _____ xG _____ -GL _____ Bar.Press. _____
Producing Thru: Casing X Tubing _____ Type Well Single - Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 4-9-56 Packer None Reservoir Temp. _____

OBSERVED DATA

Tested Through (2370) (Choke) (2396) 7 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.	Press. psig	Temp. °F.	
1.		<u>1/4</u>				<u>696</u>	<u>60</u>	<u>685</u>	<u>60</u>	<u>1 hour</u>
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.	<u>12.3650</u>		<u>17</u>	<u>1.0</u>	<u>0.961</u>	<u>1.0</u>	<u>202</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 696 P_c² 147.2

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.						<u>0.3</u>	<u>147</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 202 MCFPD; n 0.85
COMPANY ASTEC OIL & GAS COMPANY
ADDRESS P O BOX 100, FARMINGTON, NEW MEXICO
AGENT and TITLE _____, Production Engineer
WITNESSED _____
COMPANY _____

REMARKS

Temperature estimate: 60 degrees FGravity estimate: 0.85

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