

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 4-13-56
Company Astec Oil & Gas Company Lease Hare Well No. 3
Unit X Sec. 3 Twp. 29-N Rge. 10-W Purchaser _____
Casing 5 1/2" Wt. 14 1/2 I.D. _____ Set at 2335' Perf. 2254
2275 To 2260
Tubing 1" Wt. 1.74 I.D. _____ Set at 2300 Perf. 2279 To 2290
Gas Pay: From 2254 To 2310 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: 4-6-56 Packer None Reservoir Temp. _____

OBSERVED DATA

Tested Through (Pressure) (Choke) (Meter) 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.	
1.						658	658	3 hours
2.						235	208	
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.	12.3650		220	1.0	0.961	1.025	2680
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

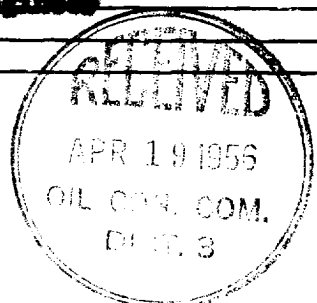
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c _____ P_c² _____

No.	$\frac{P_w}{P_t}$ (psia)	P _t ²	F _c Q	(F _c Q) ²	$\frac{(F_c Q)^2}{(1-e^{-s})}$	P _w ²	P _c ² -P _w ²	Cal. P _w	$\frac{P_w}{P_c}$
1.						48.4	400.5		
2.									
3.									
4.									
5.									

Absolute Potential: 2950 MCFPD; n 0.85
COMPANY AZTEC 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



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