

NEW MEXICO OIL CONSERVATION COMMISSION

Form C 122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Blanco Reservoir Formation Mesa Verde County San Juan
 Initial Annual Special WORKOVER Date of Test 6/11/62
 Company Astec Oil & Gas Co. Lease EAST Well No. 1
 Unit L-3 Sec. 24 T-1B R-12W Purchaser Southard Union Gas Co.
 Casing 4 1/2" WT. 9.5" I.D. 4000 Set at 5401 Perf. 5156 To 5220
 Tubing 2 3/8" WT. 4.7" I.D. 995 Set at 5149 Perf. Pid. collar To
 Gas Pay: From 5156 To 5220 L 5149 700 5156 3604 Bar. Press. 12.0
 Producing Thru: Casing Tubing 4 Type Well Single Gas
 Date of Completion: 6/11/62 Packer Single-Bradenhead-G. G. or G.O. Dual
 Reservoir Temp.

OBSERVED DATA

Tested Through <u>(Prover)</u> <u>(Choke)</u> <u>(Tubing)</u>										Type Taps
No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _v	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	2"					816		816		
1.		3/16"				104	62° EST.	739	10° EST.	3 Hrs.
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{vp}}$	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		116	1.000	.9250	1.014	1.346
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
 Gravity of Liquid Hydrocarbons deg.
 P_c (1-e⁻⁸)
 Specific Gravity Separator Gas
 Specific Gravity Flowing Fluid
 P_c 898 P_c 806 404

No.	P _w P _g (psia)	P _c ²	P _c Q	(P _c Q) ²	(P _c Q) ² (1-e ⁻⁸)	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	151					22,801	713,603		1.029
2.									
3.									
4.									
5.									

Absolute Potential: 1.375 MCFPD; n .75
 COMPANY Astec Oil & Gas Company
 ADDRESS Beaver - 570, Farmington, New Mexico
 AGENT and TITLE B. H. Adams District Eng.
 WITNESSED
 COMPANY

REMARKS

