

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool BASIN Dakota Formation DAKOTA County SAN JUAN
Initial ✓ Annual Special Date of Test SEPT. 3, 1961
Company ASTOR Oil & Gas Co. Lease HANKS Well No. 14-D
Unit M Sec. 12 Twp. 27N Rge. 10W Purchaser SOUTHERN UNION GAS
Casing 4 1/2 Wt. 11.6 I.D. 4.000 Set at 6610 Perf. 6322 To 6479
Tubing 2 3/8 Wt. 4.7 I.D. 1.995 Set at 6289 Perf. 6289 To OPEN END
Gas Pay: From 6322 To 6479 L. 6289 x G. .700 (E) CL 4402 Bar. Press. 12
Producing Thru: Casing Tubing ✓ Type Well SINGLE
Single-Bradenhead-G. G. or P.O. Dual
Date of Completion: Aug. 26, 1961 Packer NONE Reservoir Temp.

OBSERVED DATA

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	2	1/4								
1.	8 damp					1993	80°(E)	1993	80°(E)	3 HR.
2.						341		811		
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_t}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.365		353	.912			4116
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 2005 P_c 4.020.025

No.	P _w P _t (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.						677,329	3,342,648		
2.									
3.									
4.									
5.									

Absolute Potential: 4727 MCFPD; n .75
COMPANY ASTOR Oil & Gas Company
ADDRESS Basin Dakota, New Mex.
AGENT and TITLE B. H. Means
WITNESSED B. H. Means
COMPANY

REMARKS

