

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Und. Dakota Formation Dakota County San Juan
Initial X Annual _____ Special _____ Date of Test August 1, 1960
Company Tennessee Gas & Oil Company Lease Tom Balack Gas Unit "A" Well No. 1
Unit _____ Sec. 2 Twp. 27 N Rge. 11 W Purchaser _____
Casing 7" Wt. _____ I.D. _____ Set at 6438 Perf. 6302 To 6416
Tubing 8" Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From 6302 To 6416 L _____ xG _____ -GL _____ Bar. Press. _____
Producing Thru: Casing _____ Tubing X Type Well G.O. Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: August 1, 1960 Packer 6327 Reservoir Temp. 156 F

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)

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.	
SI						<u>1987</u>		<u>Dual</u>		
1.		<u>.750</u>	<u>766</u>			<u>756</u>	<u>80</u>			<u>2.0</u>
2.										
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>12.3450</u>		<u>766</u>	<u>.9812</u>	<u>.8402</u>	<u>1.119</u>	<u>2.752</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio no sep. cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid .80
P_c 2445 P_c 3,973

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>1614</u>	<u>2,605</u>				<u>2,605</u>	<u>3,973</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 10,550 / 15,500 MCFPD; n 0.75

COMPANY Ward & Jamison Engineering Company
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AGENT and TITLE John Ward, Engineer
WITNESSED H. Johnson
COMPANY Tennessee Gas & Oil Company

REMARKS

Bottom Hole Pressures measured with Amerada Recording Pressure Gauge

Surface Pressures measured with dead weight tester

