

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Jalnet Formation Upper Yates Sand County Lee
 Initial Annual Special X Date of Test 11-5-57
 Company Paul P. Scott Trust Lease Daniel Vaughan B-3 Well No. 1
 Unit Sec. 3 Twp. 24 Rge. 37 Purchaser Noma
 Casing 7 Wt. 264 I.D. 6.276 Set at 3300 Perf. 3060 To 3186
 Tubing 2 1/2 Wt. 6.50 I.D. 3022 Set at 3022 Perf. 3022 To 3022
 Gas Pay: From 3060 To 3186 L 3022 x G .670 = GL 2024 Bar. Press. 13.2
 Producing Thru: Casing 3022 Tubing 3022 Type Well Single
 Single-Bradenhead-G, G. or G. O. Dual
 Date of Completion: 10-18-57 Packer: 3022

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	Prover Size	Orifice Size	Press. psig	Diff. hw	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						798				72
1.	2 x .125		791		60°	791				3
2.	2 x .250		717		63°	717				3
3.	2 x .375		496		63°	500				3
4.	2 x .500		344		65°	346				3
5.	2 x .500		310		64°	312				24

No.	Coefficient (24-Hour)	$\sqrt{h_{spw}}$	Pressure psia	Flow Temp. Foster F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	0.3418		804.2	1.0000	0.9463	1.093	284
2.	1.4030		730.2	0.9971	0.9463	1.085	1,048
3.	3.0691		509.2	0.9971	0.9463	1.056	1,557
4.	5.5233		357.2	0.9952	0.9463	1.037	1,927
5.	5.5233		323.2	0.9962	0.9463	1.035	1,742

Gas Liquid Hydrocarbon Ratio Mcf/bbl.
 Gravity of Liquid Hydrocarbons deg.
 F_c 5.866 (1-e⁻⁵) .130

Specific Gravity Separator Gas deg.
 Specific Gravity Flowing Fluid deg.
 P_c 811.2 P₂ 658.0

No.	F _t (psia)	P _t	P _c ² - P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁵)	P _w ²	P _c ² - P _w ²
1.	804.2	646.7	11.3	1.7	2.9	.4	647.1	10.9
2.	732.2	536.1	121.9	6.1	37.2	4.8	540.9	117.1
3.	513.2	263.4	394.6	9.1	82.8	10.8	274.2	383.8
4.	359.2	129.0	529.0	11.3	127.7	16.6	145.6	512.4
5.	325.2	105.8	552.2	10.2	104.0	13.5	119.3	538.7

Wellhead Potential: 2,650 MCFPD; @ 61° ; n_t .551
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Conducted by: Mikel & Dyer
 Witnessed by: Clary
 Calculated by: Mikel