

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 29-APR-1992	
Company W.O.G. Inc.				Connection	
Pool Wildcat				Formation Atoka	
Completion Date 4/7/92		Total Length 10632		Plug Back TD 10600	
Elevation 4343		Farm or Lease Name State			
Csg. Size 5.50	Wt. 17#	d 	Set At 10605	Perforations: From 10558 To 10590	
Trg. Size 2.875	Wt. 6.50	d 2.441	Set At 10476	Perforations: From To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At 10478	
Producing Thru Tubing		Reservoir Temp. °F 169 @ 10558		Mean Annual Temp. °F 60.0	
Baro. Press. - P _a 13.2		State New Mexico			
L 10574	H 10574	G _g 0.774	% CO ₂ 0	% N ₂ 0	% H ₂ S 0
Prover		Meter Run 4.026		Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							2095	64			17.5
1.	4.026 X 0.750		62	14.5	78	2043	78				1.0
2.	4.026 X 0.750		65	23.5	65	2002	84				1.0
3.	4.026 X 0.75		103	56.0	92	1906	92				1.0
4.	4.026 X 1.000		81	48.7	90	1789	90				1.0
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcd
1	2.66	33.02	75.2	0.9831	1.1593	1.0086	101
2	2.66	42.87	78.2	0.9952	1.1593	1.0097	133
3	2.66	80.67	116.2	0.9706	1.1593	1.0123	244
4	4.75	67.73	94.2	0.9723	1.1593	1.0101	366
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	0.11	538	1.33	0.983	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	0.12	525	1.30	0.981	Specific Gravity Separator Gas 0.744 X X X X X X X X
3	0.17	552	1.37	0.976	Specific Gravity Flowing Fluid X X X X X 0.744
4	0.14	550	1.36	0.980	Critical Pressure 665 P.S.I.A. 665 P.S.I.A.
5					Critical Temperature 404 R 404 R

NO.	P _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	4228	2027	4110	3.3196	2.9192
2	4061	1976	3906		
3	3683	1870	3496		
4	3248	1758	3091		
5					

Absolute Open Flow 1070 Mcd @ 15.025		Angle of Slope θ 48.2		Slope, n 0.893	
Remarks:					

Approved By Division SIGNED BY JERRY SEXTON DISTRICT SUPERVISOR	Conducted By: <i>B. L. Long</i>	Calculated By: <i>J. S.</i>	Checked By:
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ORIGINAL
SIGNED BY JERRY SEXTON
DISTRICT SUPERVISOR