

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8-18-75	
Company H. L. Brown, Jr.,				Connection		
Pool Bluitt				Formation Wolfcamp		Unit
Completion Date 8-10-75		Total Depth 8130		Plug Back TD 8061		Elevation 4054 GL
Csg. Size 5 1/2		Wt. 15.5 & 17	d 1.99	Set At 8130	Perforations: From 8017 To 8158	
Tag. Size 2 3/8		Wt. 4.7	d 1.99	Set At 7894	Perforations: From Open To End	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single					Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F 148 @ 8038		Mean Annual Temp. °F 70		Baro. Press. - P _b 13.2
L 8038		H 8130	Gg .700	% CO ₂ Nil	% N ₂ Nil	% H ₂ S None
				Prover		Mater Run 3.068
						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.	
SI							2103	70		
1.	3.068		1.250	430	4	80	2072	74	Pkr.	60 min.
2.	"		"	430	20	80	1990	78		60 min.
3.	"		"	440	44	66	1920	78		60 min.
4.	"		"	560	75	60	1810	78		60 min.
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 _{pv}	Rate of Flow Q, Mcid
1	7.577	42.1046	443.2	.9813	1.195	1.051	393
2	"	94.1488	443.2	.9813	"	1.047	375
3	"	141.2119	453.2	.9943	"	1.055	1341
4	"	207.3403	573.2	1.000	"	1.072	2013
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____ X X X X X X X X
3					Specific Gravity Flowing Fluid _____ X X X X X
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 3.880$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .5290$ $AQF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6806.6$
1	2085.2	4348	130		
2	2003.2	4013	465		
3	1933.2	3737	741		
4	1823.2	3324	1154		

Absolute Open Flow _____ 6807 _____ Mcid @ 15.025		Angle of Slope @ _____ 48.4 _____	Slope, n _____ .8985 _____
Remarks: _____			
Approved By Commission: _____		Conducted By: _____ C. Allen Dorsey _____	Calculated By: _____ C. Allen Dorsey _____
Checked By: _____			