

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4-3-81			
Company John R. Knott				Connection					
Pool				Formation Pictured Cliffs				Unit	
Completion Date 4-3-81		Total Depth 6088		Plug Back TD 1474		Elevation 5775 GL		Farm or Lease Name STP - State	
Csq. Size 2 7/8"	Wt. 6.5#	d	Set At 1537	Perforations: From 1311x To 1321x		Well No. 1-16			
Tbg. Size 1 1/2"	Wt. 2.9#	d	Set At 1320	Perforations: From 1322 To 1332		Unit C	Sec. 16	Twp. 27N	Rge. 12W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas						Packer Set At		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover X	Meter Run	Taps	

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	2" x 0.500"						418		420		3 hrs.
1.							232		304		
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	4.279		244	1.000	1.240	1.024	1,326
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	40.1 Deg.
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1	432	316	186,624	99,856	86,768
2					
3					
4					
5					

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.1508$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2,542$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.9174$

Absolute Open Flow	2,542	Mcf/d @ 15.025	Angle of Slope θ	Slope, n 0.85
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Remarks:

Approved By Division	Conducted By: Delta Oilfield Service.	Calculated By: A.B.Geren Jr.	Checked By:
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