

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-27-97	
Company McElvain Oil and Gas			Connection EPNG		
Pool Ballard			Formation Pictured Cliff		Unit
Completion Date 1-15-97		Total Depth 6905	Plug Back TD 6870	Elevation 6918 GL	Farm or Lease Name Miller "A"
Cas. Size 7.000	Y.L. 23#	d 6.870	Set At 6905	Perforations: From 2420 To 2438	Well No. #1
Int. Size 2.375	W.L. 4.7#	d 1.995	Set At 2447	Perforations: From Open To Ended	Unit Sec. Twp. Rge. A 13 24N 7W
Type Well - Single - Drilled - G.G. or G.O. Multiple Gas/Gas-Oil Multiple-CMGLD				Packer Set At 2542	County Rio Arriba
Producing thru Tubing		Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _a 12 psia	State New Mexico
L	H	G _g	% CO ₂	% N ₂	% H ₂ S
					Prover
					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	12 days						287		340		None
1.											
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1							
2							
3							
4							
5							

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

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1						
2						
3						
4						
5						

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$			
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Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope @ _____	Slope, n _____
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Remarks: No Flow			
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Approved By Division	Conducted By: Joe Elledge	Calculated By: Joe Elledge	Checked By: Larry VanRyan
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