

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-7-97	
Company Little Oil & Gas, Inc.		Connection EPNG	
Pool Basin		Formation Fruitland Coal	
Completion Date 7-6-97		Total Depth 2437	Plug Back TD 2425
		Elevation 6683 GR	Farm or Lease Name Wiedemer
Csg. Size 4 1/2	Wt. 10.5	d 4.052	Set At
Perforations: From 2264 To 2410		Well No. 5	
Thq. Size 2 3/8	Wt. 4.7	d 1.995	Set At
Perforations: From Open To Ended		Unit Sec. Twp. Rge. A 34 27 10	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At None	County San Juan
Producing Thru Tubing	Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _g 12 psi
State New Mexico			
L	H	G _g .660	% 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	24 hours						148		148		
1.	2 hours		750	15			15	600	94	600	3 hours
2.											
3.											
4.											
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, Mcfd
1	12.3650		27	1.000	1.000	1.000	334
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 _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X
4.					Initial Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P_c 160 P_c² 25600

NO.	P ₁ ²	P _w	P ₂ ²	P ₂ ² - P _w ²
1				
2				
3		106	11236	14364
4				
5				

$\frac{P_c^2}{P_c^2 - P_w^2} = 1.7822$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6343$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 546$

Absolute Open Flow	546	Mcfd @ 15.025	Angle of Slope	Slope, n .85
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Remarks: _____

Approved By Division	Conducted By: JF Elledge	Calculated By: JF Elledge	Checked By: Sylvia Little
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