

State of New Mexico
Energy, Mineral and Natural Resources

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

Form C-122
Revised October, 1999

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

30-025-36290

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator SAMSON RESOURCES COMPANY					Lease or Unit Name MINIS 2 FED COMM #4				
Type Test ☒ Initial ☐ Annual ☐ Special					Test date 9/22/2003		Well No. 4		
Completion Date: 8/27/2003		Total Depth 14400		Plug Back TD 14270		Elevation: 3659' GL		Unit Ltr.-Sec.-TWP-Rge. H. 2 21S 32E	
Csg. Size 5.500	Wt. 20	d 4.778	Set At 14398	Perforations: From 13651 To 14194			County LEA		
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 13646	Perforations: From To			Pool		
Type Well - Single - Bradenhead - G.G or G.O Multiple SINGLE					Packer Set At NONE		Formation MORROW		
Prod. Thru TUBING		Reservoir Temp. F 245 @ 13,923		Mean Annual Temp. F 60		Baro. Press - Pa 13.20		Connection DOWNSTREAM	
L 13923	H 13923	Gg 0.580	%Co2 0	%N2 0	%H2s ppm 0	Prover	Meter run X	Taps F	
FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Line X Size Size	Orifice Press. p.s.i.g.	Diff. hw	Temp. F.	Press. p.s.i.g.	Temp. F.	Press. p.s.i.g.	Temp. F.	
Shut-in Pressure					3000	60		24	
1	3.068 X 2.000	73	12	60	2500	60		24	
2									
3									
4									
5									
RATE OF FLOW CALCULATIONS									
NO.	COEFFICIENT (24 HOUR)	hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg.	Super Compress Factor, Fpv.	Rate of Flow (Q) Mcfd		
1	21.32	32.16	86.20	1.0000	1.31306	1.005388	905		
2									
3									
4									
5									

NO.	Pr	Temp R	Tr	Z
1	.128	520	1.486	.9871
2				
3				
4				
5				

Pc	3013.2	Pc2	9079.4
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NO.	Pw	Pw2	Pc2-Pw2
1	2519.6	6348.3	2731.0
2			
3			
4			
5			

GAS LIQUID HYDROCARBON RATIO		37	Mcf/bbl.
API GRAVITY OF LIQUID HYDROCARBONS		52	Deg.
S. G. SEPARATOR GAS	0.580	XXXXXXXXXX	
S.G. FLOWING FLUID	XXXXXXXXXX	0.563	
CRITICAL PRESSURE	672.70	673.30	P.S.I.A.
CRITICAL TEMPERATURE	349.98	344.32	R

[1] Pc2	3.324502	[2] Pc2	n	3.324502
Pc2-Pw2		Pc2-Pw2		

AOF = Q * $\frac{Pc2}{Pc2-Pw2}$ **n** **3009**

Absolute Open Flow	3009	Mcfd@ 15.025	Angle of Slope	45.00	Slope n	1.00
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Remarks: **WELL PRODUCED 24.5 BBLs OF CONDENSATE AND 0 BBLs WATER DURING TEST.**

Approved by Division: <i>[Signature]</i>	Conducted by: SAMSON RESOURCES COMPANY	Calculated by: COMPUTER	Checked by:
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