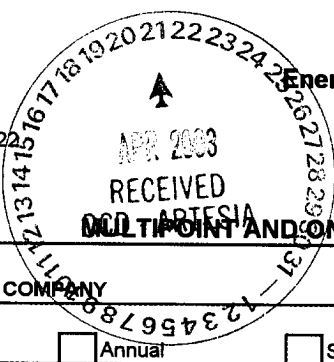


Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122



State of New Mexico
Energy, Mineral and Natural Resources

Form C-122
Revised October, 1999

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

30-015-32446

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator SAMSON RESOURCES COMPANY					Lease or Unit Name LOVING 1 STATE 3				
Type Test ☒ Initial ☐ Annual ☐ Special					Test date 2/8/2003		Well No. 3		
Completion Date: 1/7/2003		Total Depth 12870		Plug Back TD 12870		Elevation:		Unit Ltr.-Sec.-TWP-Rge. C 1 24S 27E	
Csg. Size 4.500	Wt. 11.6	d 4.000	Set At 12870	Perforations: From 12492 To 12680			County EDDY		
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 12390	Perforations: From To			Pool		
Type Well - Single - Bradenhead - G.G or G.O Multiple SINGLE					Packer Set At 12390		Formation MORROW		
Prod. Thru TUBING		Reservoir Temp. F 198 @ 12,586		Mean Annual Temp. F 60		Baro. Press - Pa 13.20		Connection DOWNSTREAM	
L 12586	H 12586	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	Orifice Size	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					1400	60			24
1	4.026 X 2.375		639	85.6	60	850	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	28.98	236.28	652.20	1.0000	1.31306	1.050406	9444		
2									
3									
4									
5									
NO.	Pr	Temp R	Tr	Z	GAS LIQUID HYDROCARBON RATIO 0 Mcf/bbl.				
1	.97	520	1.486	.9043	API GRAVITY OF LIQUID HYDROCARBONS 0 Deg.				
2					S. G. SEPARATOR GAS 0.580 XXXXXXXXXXXX				
3					S.G. FLOWING FLUID XXXXXXXXXXXX 0.580				
4					CRITICAL PRESSURE 672.70 672.70 P.S.I.A.				
5					CRITICAL TEMPERATURE 349.98 349.98 R				
Pc 1413.2 Pc2 1997.1					[1] Pc2 5.263158 [2] Pc2 5.263158				
					Pc2-Pw2				
NO.	Pw	Pw2	Pc2-Pw2	AOF = Q * Pc2 n 49707					
1	1271.9	1617.7	379.5	Pc2-Pw2					
2									
3									
4									
5									
Absolute Open Flow		49707		Mcf/d @ 15.025		Angle of Slope		45.00	
Slope n		1.00							
Remarks:									
Approved by Division:		Conducted by: SAMSON RESOURCES COMPANY			Calculated by: COMPUTER			Checked by:	

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