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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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

30-025-36458

Operator SAMSON RESOURCES COMPANY					Lease or Unit Name RAWHIDE 29 STATE #1				
Type Test ☒ Initial ☐ Annual ☐ Special					Test date 2/13/2004		Well No. 1		
Completion Date: 1/31/2004		Total Depth 13075		Plug Back TD 12969		Elevation: 3638 GL		Unit Ltr.-Sec.-TWP-Rge. 29 21S 35E	
Csg. Size 4.500	Wt. 13.5	d 3.920	Set At 13075	Perforations: From 12551 To 12838			County LEA		
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 10921	Perforations: From To			Pool		
Type Well - Single - Bradenhead - G.G or G.O Multiple SINGLE					Packer Set At 10909		Formation MORROW		
Prod. Thru TUBING		Reservoir Temp.F 230 @ 12,695		Mean Annual Temp. F 60		Baro. Press - Pa 13.20		Connection DOWNSTREAM	
L 12695	H 12695	Gg 0.578	%Co2 0	%N2 0	%H2s ppm 0	Prover	Meter run X	Taps F	
FLOW DATA					TUBING DATA		CASING DATA		
Prover Line X	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					4000	60		24	
1	3.068 X 2.000	35	84	60	900	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	63.63	48.20	1.0000	1.31533	1.002492	1789		
2									
3									
4									
5									
NO.	Pr	Temp R	Tr	Z	GAS LIQUID HYDROCARBON RATIO API GRAVITY OF LIQUID HYDROCARBONS S. G. SEPARATOR GAS S.G. FLOWING FLUID CRITICAL PRESSURE CRITICAL TEMPERATURE				
1	.072	520	1.489	.9929					
2									
3									
4									
5									
Pc	4013.2	Pc2	16105.8						
NO.	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2} = 1.063708$ $AOF = Q \cdot \frac{Pc2}{Pc2-Pw2} = 1903$					
1	982.1	964.6	15141.2						
2									
3									
4									
5									
Absolute Open Flow		1903	Mcfd@ 15.025	Angle of Slope	45.00	Slope n	1.00		
Remarks: WELL MADE 123 BBLs CONDENSATE AND 0 BBLs WATER DURING TEST. 18/64" CHOKE									
Approved by Division:		Conducted by:		Calculated by:		Checked by:			
<i>[Signature]</i>		SAMSON RESOURCES COMPANY		COMPUTER					

7160-3901-9842-0440-6978