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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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL **30-025-36393**

Operator SAMSON RESOURCES COMPANY					Lease or Unit Name PHILLIPS STATE				
Type Test ☒ Initial ☐ Annual ☐ Special					Test date 12/30/2003		Well No. 2		
Completion Date: 12/23/2003		Total Depth 12598		Plug Back TD 12284		Elevation: 3668 GL		Unit Ltr.-Sec.-TWP-Rge. 17 21S 35E	
Csg. Size 4.500	Wt. 13.5	d 3.920	Set At 12596	Perforations: From 12084 To 12247			County LEA		
Tbg. Size 2.375	Wt. 4.6	d 1.995	Set At 12012	Perforations: From To			Pool		
Type Well - Single - Bradenhead - G.G or G.O Multiple SINGLE					Packer Set At 12012		Formation MORROW		
Prod. Thru TUBING		Reservoir Temp.F 220 @ 12,166		Mean Annual Temp. F 60		Baro, Press - Pa 13.20		Connection DOWNSTREAM	
L 12166	H 12166	Gg 0.578	%Co2 0	%N2 0	%H2s ppm 0	Prover	Meter run X	Taps F	
FLOW DATA					TUBING DATA		CASING DATA		Duration Of Flow
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					2600	60			24
1	3.068 X 2.250	45	32	60	2300	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	28.78	43.16	58.20	1.0000	1.31533	1.003240	1639		
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	.087	520	1.489	.9914					
2									
3									
4									
5									
Pc	2613.2	Pc2	6828.8						
NO.	Pw	Pw2	Pc2-Pw2	[1] $\frac{Pc2}{Pc2-Pw2} = 4.924379$ AOF = Q * $\frac{Pc2}{Pc2-Pw2}^n = 8071$ [2] $\frac{Pc2}{Pc2-Pw2} = 4.924379$					
1	2332.8	5442.1	1386.7						
2									
3									
4									
5									
Absolute Open Flow		8071	Mcf/d @ 15.025	Angle of Slope		45.00	Slope		1.00
Remarks: WELL MADE 15 BBLs CONDENSATE AND 0 BBLs WATER DURING TEST. 10/64" CHOKE									
Approved by Division:		Conducted by: SAMSON RESOURCES COMPANY			Calculated by: COMPUTER			Checked by:	

