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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 **3D-025-36349**

Operator SAMSON RESOURCES COMPANY					Lease or Unit Name P Q OSUDO STATE <i>Com</i>				
Type Test ☒ Initial ☐ Annual ☐ Special					Test date 1/13/2004		Well No. 2		
Completion Date: 12/19/2003		Total Depth 12540		Plug Back TD 12429		Elevation: 3594 GL		Unit Ltr.-Sec.-TWP-Rge. P 16 21S 35E	
Csg. Size 5.500	Wt. 17	d 4.892	Set At 12540	Perforations: From 12155 To 12162			County LEA		
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 12163	Perforations: From To			Pool		
Type Well - Single - Bradenhead - G.G or G.O Multiple SINGLE					Packer Set At 11996		Formation MORROW		
Prod. Thru TUBING		Reservoir Temp.F 164 @ 12,159		Mean Annual Temp. F 60		Baro, Press - Pa 13.20		Connection DOWNSTREAM	
L 12159	H 12159	Gg 0.652	%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 NO. 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					6667		60		24
1	3.068 X 2.000	43	142	60	3700	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	89.33	56.20	1.0000	1.23844	1.004104			
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	.084	520	1.391	.989					
2									
3									
4									
5					0.652 XXXXXXX 670.18 373.81 0.596 XXXXXXX 672.14 355.29				
Pc	6680.2	Pc2	44625.1						
NO.	Pw	Pw2	Pc2-Pw2	[1] $\frac{Pc2}{Pc2-Pw2}$ 1.456355 [2] $\frac{Pc2}{Pc2-Pw2}$ 1.456355 $AOF = Q * \frac{Pc2}{Pc2-Pw2}$ 3449					
1	3739.4	13983.5	30641.6						
2									
3									
4									
Absolute Open Flow				3449	Mcf/d @ 15.025	Angle of Slope	45.00	Slope n	1.00
Remarks: WELL MADE 198 BBLs CONDENSATE AND 0 BBLs WATER DURING TEST. 13/64" CHOKE									
Approved by Division: 			Conducted by: SAMSON RESOURCES COMPANY			Calculated by: COMPUTER		Checked by:	