

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

30-025-36836

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator SAMSON RESOURCES COMPANY						Lease or Unit Name MESA VERDE 15 FEDERAL						
Type Test ☒ Initial ☐ Annual ☐ Special						Test date 5/6/2005			Well No. 1			
Completion Date: 4/28/2005			Total Depth 14880		Plug Back TD 14788		Elevation: 3864 GL			Unit Ltr.-Sec.-TWP-Rge. A 15 21S 32E		
Csg. Size 5.500	Wt. 20	d 4.778	Set At 14880	Perforations: From 14330 To 14689			County LEA					
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 14265	Perforations: From To			Pool HAT MESA MORROW					
Type Well - Single - Bradenhead - G.G or G.O Multiple SINGLE						Packer Set At			Formation MORROW			
Prod. Thru TUBING		Reservoir Temp.F 265 @ 14,510		Mean Annual Temp. F 60		Baro, Press - Pa 13.20			Connection DOWNSTREAM			
L 14510	H 14510	Gg 0.578	%Co2 0	%N2 0	%H2s ppm 0	Prover		Meter run X		Taps F		
FLOW DATA						TUBING DATA			CASING DATA			
Prover Orifice Line X		Press.	Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration			
NO.	Size	Size	p.s.i.g.	hw	F.	p.s.i.g.	F.	p.s.i.g.	F.	Of Flow		
Shut-in Pressure						4575	60	24				
1	3.068 X 1.750		21	7	70	600	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	15.61	15.47	34.20	0.9905	1.31533	1.001282	315					
2												
3												
4												
5												

NO.	Pr	Temp R	Tr	Z
1	.051	530	1.517	.9953
2				
3				
4				
5				

Pc	4588.2	Pc2	21051.6
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NO.	Pw	Pw2	Pc2-Pw2
1	616.9	380.5	20671.1
2			
3			
4			
5			

GAS LIQUID HYDROCARBON RATIO		0	Mcf/bbl.
API GRAVITY OF LIQUID HYDROCARBONS		0	Deg.
S. G. SEPARATOR GAS		0.578	XXXXXXXXXX
S.G. FLOWING FLUID		XXXXXXXXXX	0.578
CRITICAL PRESSURE		672.77	672.77 P.S.I.A.
CRITICAL TEMPERATURE		349.32	349.32 R

[1] $\frac{Pc2}{Pc2-Pw2} = \frac{1.018409}{1.018409}$

AOF = Q * $\frac{Pc2}{Pc2-Pw2} = \frac{n}{321}$

[2] $\frac{Pc2}{Pc2-Pw2} = \frac{n}{1.018409}$

Absolute Open Flow	321	Mcf@ 15.025	Angle of Slope	45.00	Slope n	1.00
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Remarks: **WELL MADE 0 BBLs CONDENSATE AND 40 BBLs WATER DURING TEST.**
64/64" CHOKE

Approved by Division: 	Conducted by: SAMSON RESOURCES COMPANY	Calculated by: COMPUTER	Checked by:
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