

KANSAS CORPORATION COMMISSION  
MULTIPOINT BACK PRESSURE TEST

FORM G-1  
8-7-58

TYPE TEST: <input type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special		TEST DATE: 7-22-01			
COMPANY Samuel Gary Jr. & Associates		LEASE Herd		WELL NO. 34-14	
COUNTY Comanche	LOCATION SE SW	SECTION 34-32s-19w	TWP	RNG	ACRES
FIELD Colter	RESERVOIR Marmaton	PIPELINE CONNECTION			
COMPLETION DATE 11-7-98		PLUG BACK DEPTH TOTAL DEPTH		4948 6105	PACKER SET AT 4893
CASING SIZE 5.500	WT. 15.500	ID 4.950	SET AT 6103	PERF. 4928	TO 4932
TUBING SIZE 2.375	WT. 4.700	ID 1.995	SET AT 4893	PERF.	TO
TYPE COMPLETION (Describe) Recomplete			TYPE FLUID PRODUCTION		
PRODUCING THRU (Annulus/Tubing) tubing			RESERVOIR TEMPERATURE F 130		BAR PRESS - Pa 14.4 psia
GAS GRAVITY - Gg .692		% CARBON DIOXIDE .078	% NITROGEN 4.957		API GRAVITY OF LIQUID
VERTICAL DEPTH (H) 4930		TYPE METER CONN. flange		METER RUN SIZE 2.067	
REMARKS					

OBSERVED SURFACE DATA

RATE NO.	ORIFICE SIZE in.	(METER) PRESSURE psig	DIFF. (h <sub>w</sub> ) (h <sub>t</sub> )	FLOWING TEMP. t.	WELLHEAD TEMP. t.	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbbls.
						psig	(P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> ) psia	psig	(P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> ) psia		
SHUT-IN								1578	1592	72.00	
1.	.500	104.00	100.00	90				1541	1555	1.00	
2.	.875	104.00	46.00	72				1476	1490	1.00	
3.	.875	110.00	98.00	72				1378	1392	1.00	
4.	1.250	115.00	46.00	67				1221	1235	1.00	

FLOW STREAM ATTRIBUTES

RATE NO.	COEFFICIENT (F <sub>b</sub> ) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW Q Mcfd	GOR	G <sub>m</sub>
1.	1.219	118.4	108.81	1.2021	.9723	1.0096	156		.692
2.	3.824	118.4	73.80	1.2021	.9887	1.0107	338		.692
3.	3.824	124.4	110.41	1.2021	.9887	1.0112	507		.692
4.	8.329	129.4	77.15	1.2021	.9933	1.0121	776		.692

PRESSURE CALCULATION

RATE NO.	Pt psia	Pc psia	Pw psia	(Pc) <sup>2</sup> Thousands	(Pw) <sup>2</sup> Thousands	PLOTING POINTS		% SHUT-IN 100 $\left[ \frac{P_w - P_a}{P_c - P_a} \right]$
						(Pc) <sup>2</sup> - (Pw) <sup>2</sup> Thousands	Q Mcfd	
1.	1555.4	1592.4	1555.6	2535.7	2419.8	115.9	156.5	97.7
2.	1490.4	1592.4	1491.1	2535.7	2223.5	312.3	339.0	93.6
3.	1392.4	1592.4	1394.1	2535.7	1943.5	592.2	507.4	87.4
4.	1235.4	1592.4	1239.8	2535.7	1537.1	998.7	776.6	77.7

INDICATED WELLHEAD OPEN FLOW

1529

Mcfd @ 14.65 psia

"n" = .736

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated herein and that said report is true and correct. Executed this the 26 day of July, 2001

Witness (if any)

For Company

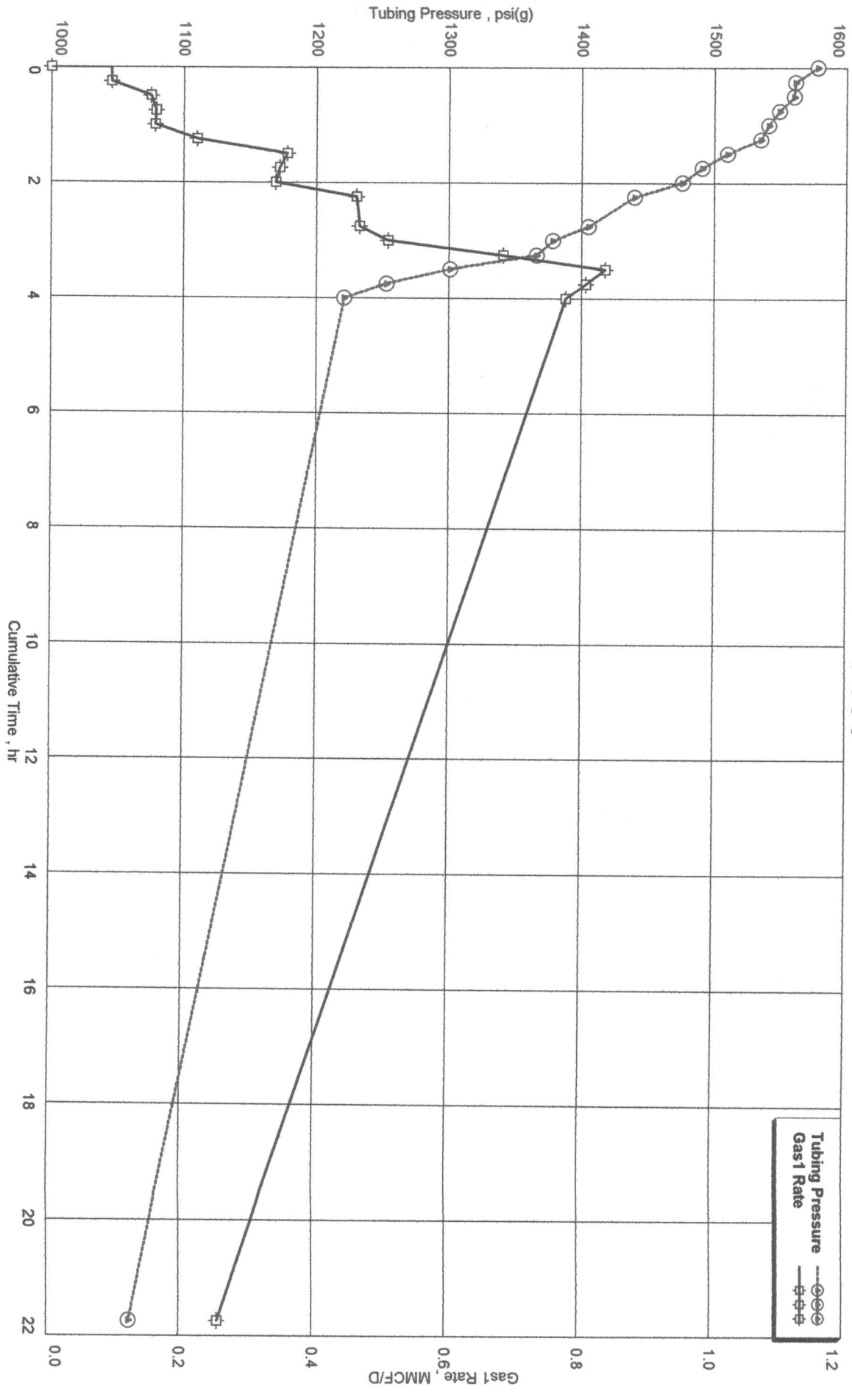
For Commission

Checked by

Sam Gary Jr. & Associates  
 SW SE SW 34-32s 19w Comanche KS  
 Start Test Date: 2001/07/22  
 Final Test Date: 2001/07/23

Herd 34-14

# Plot



# FieldNotes

Herd 34-14

Sam Gary Jr. & Associates  
 SW SE SW 34-32s 19w Comanche KS  
 Start Test Date: 2001/07/22  
 Final Test Date: 2001/07/23

## Field Measurements

Date	Clock Time	Comment	Tubing		Static1		Diff1		Meter1		Orifice1		Gas1	
			Pres	psi(g)	Pres	psi(g)	Pres	in of H2O	Temp	°F	in	Rate	MMCF/D	
2001/07/22	11:15:00	shutin												
	11:15:00		1578.00		0.00		0.00		0.00		0.000		0.000	
	11:30:00		1561.00		100.00		35.00		96.00		0.500		0.090	
	11:45:00		1560.00		101.00		95.00		96.00				0.150	
	12:00:00		1549.00		104.00		102.00		93.00				0.158	
	12:15:00	1st pt												
	12:15:00		1541.00		104.00		100.00		90.00				0.157	
	12:30:00		1535.00		104.00		20.00		86.00		0.875		0.220	
	12:45:00		1510.00		104.00		52.00		83.00				0.356	
	13:00:00		1491.00		104.00		48.00		75.00				0.345	
	13:15:00	2nd pt												
	13:15:00		1476.00		104.00		46.00		72.00				0.339	
	13:30:00		1440.00		109.00		80.00		64.00				0.461	
	14:00:00		1405.00		109.00		82.00		66.00				0.465	
	14:15:00	3rd pt												
	14:15:00		1378.00		110.00		98.00		72.00				0.508	
	14:30:00		1366.00		109.00		38.00		76.00		1.250		0.682	
	14:45:00		1301.00		114.00		54.00		69.00				0.836	
	15:00:00		1253.00		114.00		50.00		66.00				0.806	
	15:15:00	4th pt												
	15:15:00		1221.00		115.00		46.00		67.00				0.776	
2001/07/23	09:00:00	1pt												
	09:00:00		1062.00		104.00		5.50		62.00				0.258	

2001/07/22 11:15:00 To 2001/07/23 09:00:00  
 Gas 0.067 Cum. 0.067 MMCF