

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date: 4/26/10 to 4/27/10

API No. 15
165-21,873 - 0000

Company Statesman Resources		Lease Scheuerman <i>File</i>		Well Number 1-36	
County Rush	Location NENW	Section 36	TWP 17S	RNG (E/W) 17W	Acres Attributed
Field Reichel		Reservoir Herington/Towanda		Gas Gathering Connection IACX-Otis	
Completion Date 4/15/10		Plug Back Total Depth 2100 (CIBP)		Packer Set at 1894	
Casing Size 5.5	Weight	Internal Diameter	Set at 2256	Perforations 1948	To 2074
Tubing Size 2.375	Weight	Internal Diameter	Set at 1890	Perforations	To
Type Completion (Describe) single		Type Fluid Production SW		Pump Unit or Traveling Plunger? Yes / No No	
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide .0786		% Nitrogen 28.4128	
Gas Gravity - G _g .698		Pressure Taps flange		(Meter Run) (Prover) Size 2"	
Vertical Depth(H)		Pressure Taps flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup:	Shut in 4/23	20	10 at 10:30 am	(AM) (PM) Taken 4/26	20 10 at 10:30 am (AM) (PM)
Well on Line:	Started 4/26	20	10 at 10:45 am	(AM) (PM) Taken 4/27	20 10 at 10:45 am (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in 72 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (Pm)	Pressure Differential in inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _{cs}) or (P _{cs}) or (P _{cs})		Tubing Wellhead Pressure (P _{tu}) or (P _{tu}) or (P _{tu})		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in								411	425.4	72	
Flow	1.250	20	3	55				364	378.4	24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _p) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_c \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _{va}	Metered Flow R (Mcfd)	GOR (Cubic Feet/Barrel)	Flowing Fluid Gravity G _g
8.329	34.4	10.16	1.197	1.005		102		.698

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P₂)² = 180.965 ; (P_w)² = 143.186 ; P_c = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_s)² = 0.207 ; (P_d)² = _____

(P ₂) ² - (P _w) ² or (P ₂) ² - (P _c) ²	(P ₂) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _w ² 2. P _c ² - P _s ² divided by: P _c ² - P _w ²	LOG of formula 1, or 2, and divide by: P _c ² - P _w ²	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG	Amilog	Open Flow Deliverability Equals R x Amilog (Mcfd)
180.758	37.779	4.785	.6799	.809	.5500	3.16	322

Open Flow **322** Mcfd @ 14.65 psia X .50 = Deliverability **161** Mcfd @ 14.65 psia

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 therein, and that said report is true and correct. Executed this the 6th day of May, 20 10

Witness (if any)

For Contention

[Signature]
For Company
Colm, Inc.
Checked by

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FEB 17 2012

KCC WICHITA

STATE OF KANSAS - CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM CG-1

TYPE TEST: Initial Annual Special TEST DATE: 4/26/10

COMPANY: Statesman Resources LEASE: Scheuerman WELL NO.: 1-36

COUNTY: Rush LOCATION: NENW SECTION: 36 TWP: 17S RNG: 17W ACRES:

FIELD: Reichel RESERVOIR: Herington/Towanda PIPELINE CONNECTION: IACX-Otis

COMPLETION DATE: 4/15/10 PLUG-BACK TOTAL DEPTH: 2100 (CIBP) PACKER SET AT: 1894

CASING SIZE: 5.5 WT. ID. SET AT: 2256 PERF. 1948 TO 1951

TUBING SIZE: 2.375 WT. ID. SET AT: 1890 PERF. 2071 TO 2074

TYPE COMPLETION (Describe): single TYPE FLUID PRODUCTION: SW

PRODUCING THRU: Tubing RESERVOIR TEMPERATURE F: BAR PRESS - P_a: 14.4 Psia

GAS GRAVITY - G_s: .698 % CARBON DIOXIDE: .0786 % NITROGEN: 28.4128 API GRAVITY OF LIQUID:

VERTICAL DEPTH (H): TYPE METER CONN.: Flange tap (METER RUN) (PROVER) SIZE: 2"

REMARKS: Tested into pipeline

OBSERVED DATA DURATION OF SHUT-IN: 72 HR.

RATE No.	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DISP. (h _w) (h _d)	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P _t)(P _o) psia	psig	(P _w)(P _t)(P _c) psia		
SHUT IN								411	425.4	72	
1	1.250	21	4	52				393	407.4	.75	0
2	"	22	10	53				378	392.4	.75	0
3	"	24	18	53				362	376.4	.75	0
4	"	28	23	54				344	358.4	.75	0
5											

RATE OF FLOW CALCULATIONS

RATE NO.	COEFFICIENT (F _p)(F _o) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m \times h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW Q Mcfd	GOR	G _m
1	8.329	35.4	11.89	1.197	1.008	--	119		
2	"	36.4	19.07	"	1.007	--	191		
3	"	38.4	26.29	"	1.007	--	264		
4	"	42.4	31.22	"	1.006	--	313		
5									

PRESSURE CALCULATIONS

RATE NO.	P _t psia	P _c psia	P _w psia	(P _c) ² THOUSANDS	(P _w) ² THOUSANDS	PLOTTING POINTS		% SHUT-IN $100 \frac{P_w - P_a}{P_c - P_a}$
						(P _c) ² - (P _w) ² THOUSANDS	Q Mcfd	
1		425.4	407.4	180.9	165.9	15.0	119	95.6
2		"	392.4	"	153.9	27.0	191	91.9
3		"	376.4	"	141.6	39.3	264	88.2
4		"	358.4	"	128.4	52.5	313	83.6
5								

INDICATED WELLHEAD OPEN FLOW 900 Mcfd @ 14.65 psia "n" = .809

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 therein, and that said report is true and correct.

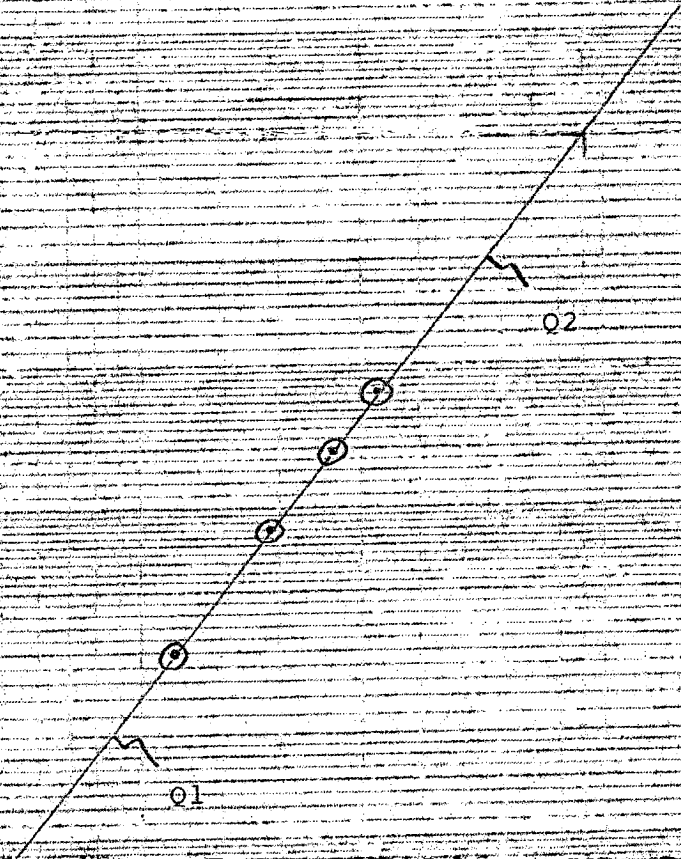
Executed this the 6th day of May, 2010.

Witness (if any)
 For Commission

RECEIVED
 FEB 17 2012
 For Company
 GCM, INC. KCC WICHITA
 Checked by

Statesman Resources - Scheuerman 1-36
NENW Sec 36-17S-17W
Rush County
Tested 4/26/10

Pc2
1000
100
10



Q2 - 560 - Log: 2.748
Q1 - 87 - Log: 1.939

"n" = .809

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KCC WICHITA

MEASUREMENT SOLUTIONS INC.

6705 East 81st Street Suite 155 Tulsa, OK 74133
 Telephone 918-493-2700 Fax 918-493-2704

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5/3/2010

GAS ANALYSIS REPORT

METER NUMBER :	999999	SAMPLE TYPE :	SPOT
METER NAME :	SCHEURMAN 1-36	SAMPLE DATE :	04/26/2010
METER ID :	STATESMAN RESOURCES	SAMPLE PRES / TEMP :	385 / 52
PRODUCER :		SAMPLED BY :	G.MAIER
COMPANY :	STATESMAN RESOURCES	EFFECTIVE DATE :	04/01/2010

<u>COMPONENT</u>	<u>PERCENT</u>	<u>BTU VALUES @ 14.65</u>		<u>BTU VALUES @ 14.73</u>	
Helium He	1.6827	REAL DRY	754.97	REAL DRY	759.09
Oxygen O2	0.0000	REAL WET	741.75	REAL WET	745.81
Hydrogen Sulfide H2S	0.0000				
Carbon Dioxide CO2	0.0786				
Nitrogen N2	28.4128				
Methane C1	66.0331	<u>GPM VALUES @ 14.65</u>		<u>GPM VALUES @ 14.73</u>	
Ethane C2	2.1022	C2	0.5588	C2	0.5619
Propane C3	0.8707	C3	0.2384	C3	0.2397
I-Butane iC4	0.2147	iC4	0.0698	iC4	0.0702
N-Butane nC4	0.3014	nC4	0.0945	nC4	0.0950
I-Pentane iC5	0.0942	iC5	0.0343	iC5	0.0345
N-Pentane nC5	0.1014	nC5	0.0365	nC5	0.0367
Hexane Plus C6+	0.1082	C6+	0.0469	C6+	0.0472
TOTALS	100.0000		1.0792		1.0852

SPECIFIC GRAVITY

REAL DRY 0.6989
 REAL WET 0.6976

COMPRESSIBILITY FACTOR

Z FACTOR DRY 0.9986
 Z FACTOR WET 0.9985

GALLONS PER THOUSAND

GPM TOTALS @ 14.65
 C2 + GPM 1.0792
 C3 + PGM 0.5204
 C4 + GPM 0.2820
 C5 + GPM 0.1177

GPM TOTALS @ 14.73
 C2 + GPM 1.0852
 C3 + PGM 0.5233
 C4 + GPM 0.2836
 C5 + GPM 0.1184

COMMENTS :

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