

GENERAL INFORMATION

Client Information:

Company: Sam Gary Jr. & Associates

Contact: Tom Fertal

Phone: Fax: e-mail:

Site Information:

Contact: Tom Larsen

Phone: Fax: e-mail:

Well Information:

Name: Nielson 25-13

Operator: Sam Gary Jr

Location-Downhole: 500' FSL 500' FWL

Location-Surface:

Test Information:

Company: Trilobite Testing Inc.

Representative:

Supervisor: Paul Simpson

Test Type: initial 4 pt & initial 1pt Job Number:

Test Unit:

Start Date: 2000/11/30 Start Time: 14:00:00

End Date: 2000/12/01 End Time: 02:20:00

Report Date: Prepared By:

Remarks: Qualified By:

110.50 11/30 Paul Mileage 130 @ .85
110.50 12/01 Lanny Mileage 130 @ .85
295.00 4pt
115.00 1pt
60.00 Gas Analysis
691.00 Total

KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM G-1

8-7-58

TYPE TEST: ☒ Initial ☐ Annual ☐ Special		TEST DATE: 11/30/2000	
COMPANY Samuel Gary Jr. & Associates		LEASE Nielsen	
WELL NO. 25-13			
COUNTY Comanche	LOCATION 500' FSL 500'FW	SECTION 25-32-19w	TWP RNG ACRES .160
FIELD Wildcat	RESERVOIR Mississippian	PIPELINE CONNECTION Reliant Energy	
COMPLETION DATE 11-5-2000	PLUG BACK DEPTH 5265	PACKER SET AT	
	TOTAL DEPTH 5956		
CASING SIZE 5.500	WT. 15.500	ID 4.995	SET AT 5332
			PERF. 5160
			TO 5250
TUBING SIZE 2.375	WT. 4.700	ID 1.995	SET AT 5248
			PERF. TO
TYPE COMPLETION (Describe) acid		TYPE FLUID PRODUCTION water	
PRODUCING THRU (Annulus/Tubing) tubing		RESERVOIR TEMPERATURE F 121	
BAR PRESS - Pa 14.4 psia			
GAS GRAVITY - G _g .595	% CARBON DIOXIDE	% NITROGEN 1.072	API GRAVITY OF LIQUID
VERTICAL DEPTH (H) 5205	TYPE METER CONN. flange		METER RUN SIZE 2.067
REMARKS			

OBSERVED SURFACE DATA

RATE NO.	ORIFICE SIZE in.	(METER) PRESSURE psig	DIFF. (h _w) (h _t)	FLOWING TEMP. t.	WELLHEAD TEMP. t.	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w) (P _c) (P _e) psia	psig	(P _w) (P _c) (P _e) psia		
SHUT-IN						1500	1514	1500	1514		
1.	.750	143.00	16.00	70		1451	1465	1450	1464	1.00	
2.	.750	138.00	33.00	78		1408	1422	1270	1284	1.00	
3.	.750	152.00	56.00	76		1357	1371	999	1013	1.00	
4.	.750	137.00	95.00	68		1288	1302	789	803	1.00	.5

FLOW STREAM ATTRIBUTES

RATE NO.	COEFFICIENT (F _b) Mcfd	(METER) 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.	2.780	157.4	50.18	1.2964	.9905	1.0116	181		.595
2.	2.779	152.4	70.92	1.2964	.9831	1.0107	253		.595
3.	2.780	166.4	96.53	1.2964	.9850	1.0118	346		.595
4.	2.780	151.4	119.93	1.2964	.9924	1.0113	433	36148.0	.710

PRESSURE CALCULATION

RATE NO.	P _t psia	P _c psia	P _w psia	(P _c) ² Thousands	(P _w) ² Thousands	PLOTING POINTS		% SHUT-IN 100 $\left[\frac{P_w - P_a}{P_c - P_a} \right]$
						(P _c) ² - (P _w) ² Thousands	Q Mcfd	
1.	1464.4	1514.4	1465.4	2293.4	2147.4	146.0	181.2	96.7
2.	1284.4	1514.4	1422.4	2293.4	2023.2	270.2	253.9	93.9
3.	1013.4	1514.4	1371.4	2293.4	1880.7	412.7	346.7	90.5
4.	803.4	1514.4	1302.4	2293.4	1696.2	597.2	433.8	85.9

INDICATED WELLHEAD OPEN FLOW

1007

Mcfd @ 14.65 psia

"n" =

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 12 day of Dec, 2000

Witness (if any)

For Company

For Commission

Checked by

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
(Rev.8/98)

TYPE TEST:

☒ Open Flow
☒ Deliverability

TEST DATE: 12-01-2000 **API No.** 15-033-21148

Company Samuel Gary Jr. & Associates		Lease Nielsen		Well Number 25-13	
County Comanche	Location 500' FSL 500'FW	Section 25-32-19w	TWP	RNG (E/W)	Acres Attributed 160
Field Wildcat	Reservoir Mississippian		Gas Gathering Connection Reliant Energy		
Completion Date 11-5-2000		Plug Back Total Depth 5265		Packer Set at	
Casing Size 5.500	Weight 15.500	Internal Diameter 4.995	Set at 5332	Perforations 5160	To 5250
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at 5248	Perforations	To
Type Completion (Describe) acid		Type Fluid Production water		Pump Unit or Traveling Plunger? no	
Producing Thru (Annulus/Tubing) tubing		% Carbon Dioxide		% Nitrogen 1.072	Gas Gravity- Gg .595
Vertical Depth (ft) 5205		Pressure Taps Flange		Meter Run Size 2.067	
Pressure Buildup: Shut in		11/11/00 @ 4:00pm		TAKEN	11/30/00 @ 2:00pm
Well on Line: Started		11/30/00 @ 2:00pm		TAKEN	12/1/00 @ 2:20pm

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H ₂ O	Flowing Temp. t.	Wellhead Temp. t.	Casing Wellhead Press. (P _w) (P _t) (P _c)		Tubing Wellhead Press. (P _w) (P _t) (P _c)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						1500	1514	1500	1514	454.0	
Flow	.750	141.0	28.00	62		1172	1186	650	664	24.1	8.3

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mofd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mofd	GOR	G _m
2.780	155.4	65.96	1.2964	.9981	1.0120	240	29052.2	.737

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P _c) ² = 2293.4		(P _w) ² = 1407.5		9.0		% (P _c - 14.4) + 14.4 =		(P _a) ² = 0.207
(P _c) ² - (P _a) ²		(P _c) ² - (P _w) ²		$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$		LOG		(P _d) ² 18.77
or (P _c) ² - (P _d) ²		$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$		LOG		Backpressure Curve Slope "n" ----- or ----- Assigned Standard Slope		n x LOG
Antilog		Antilog		Antilog		Antilog		Open Flow Deliverability = R x Antilog Mofd
2293.20		885.86		2.589		.4131		.679
2274.64		885.86		2.568		.4095		.679
								.2805
								.2781
								1.908
								1.897
								458
								455

OPEN FLOW 458 Mofd @ 14.65 psia **DELIVERABILITY** 455 Mofd @ 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 herein and that said report is true and correct. Executed this the 12 day of Dec, 2000

Witness (if any)

For Commission

For Company

Checked by

GAS WELL BACK PRESSURE CURVE

WELL TESTER:

TEST DATE: 11/30/2000

Samuel Gary Jr. & Associates

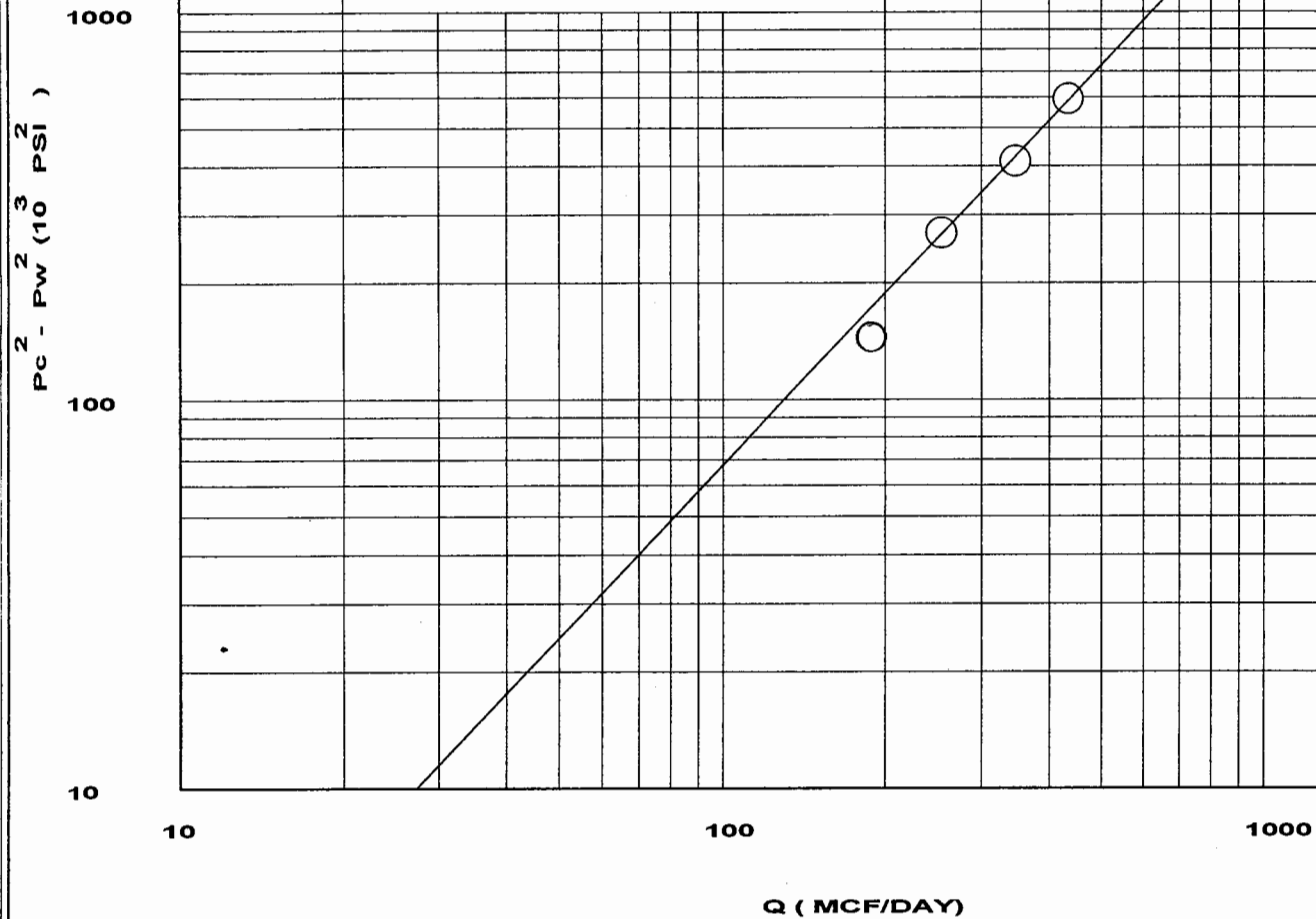
Nielsen 25-13

25-32-19w

Comanche ,KS.

Exponent n: 0.6790

AOF: 1092.



NATURAL GAS ANALYSIS REPORT

Sampled by:

Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:

Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 20006165**Analyzed:** 12/08/00**Sample From:** Nielsen 25-13 4pt**Pressure:****Producer:** Samuel Gary, Jr.**Temperature:****Date:** 12/01/00**Location:** 25-12-19**Time:****County:** Comanche**Sampler:** Lanny Saloga**State:** Kansas**Source:****Formation:**

	Mole %	GPM
Helium	He: 0.081	0.000
Hydrogen	H2: 0.017	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 1.072	0.000
Carbon Dioxide	CO2: 0.149	0.000
Methane	C1: 94.264	0.000
Ethane	C2: 2.862	0.765
Propane	C3: 0.869	0.239
Iso Butane	iC4: 0.135	0.044
Normal Butane	nC4: 0.260	0.082
Iso Pentane	iC5: 0.080	0.029
Normal Pentane	nC5: 0.077	0.028
Hexanes Plus	C6+: 0.134	0.058

TOTAL: 100.000 1.247**Z Fact:** 0.9978**SP.GR.:** 0.5955**BTU (SAT):** 1037.0 @ 14.73 psia**BTU (DRY):** 1055.4 @ 14.73 psia**OCTANE RATING:** 126.8**COMMENTS:**

0.000

Sam Gary Jr. & Associates
500' FSL 500' FWL
Start Test Date: 2000/11/30

FieldNotes

Field Measurements

Nielson 25-13

	Clock	Casing	Tubing	Static1	Diff1	Meter1	Gas1
Date	Time	Comment	Pres	Pres	Pres	Temp	Rate
yyyy/mm/d hh:mm:ss			psi(g)	psi(g)	psi(g)	in of H2O	°F
1	2000/11/30 14:00:00	shutin					
2			1500.00	1500.00	0.00	0.00	0.00
3	14:15:00		1486.00	1486.00	141.00	17.00	73.40 0.185
4	14:30:00		1475.00	1474.00	143.00	17.00	78.00 0.185
5	14:45:00		1456.00	1455.00	143.00	16.00	78.00 0.179
6	15:00:00	1st pt					
7	15:00:00		1451.00	1450.00	143.00	16.00	78.00 0.179
8	15:15:00		1437.00	1412.00	149.00	37.00	78.00 0.278
9	15:30:00		1424.00	1353.00	139.00	37.00	78.00 0.269
10	15:45:00		1418.00	1318.00	139.00	35.00	78.00 0.262
11	16:00:00	2nd pt					
12	16:00:00		1408.00	1270.00	138.00	33.00	78.00 0.253
13	16:15:00		1396.00	1197.00	151.00	60.00	76.00 0.357
14	16:30:00		1381.00	1130.00	149.00	55.00	76.00 0.340
15	16:45:00		1367.00	1053.00	151.00	57.00	76.00 0.348
16	17:00:00	3rd pt					
17	17:00:00		1357.00	999.00	152.00	56.00	76.00 0.346
18	17:15:00		1332.00	860.00	174.00	96.00	74.00 0.485
19	17:30:00	fluid					
20	17:30:00		1316.00	836.00	167.00	96.00	72.00 0.477
21	17:45:00		1299.00	791.00	152.00	95.00	72.00 0.454
22	18:00:00	4th pt					
23	18:00:00		1288.00	789.00	137.00	95.00	68.00 0.434
24	12721/12/31 14:00:00	1 point					
25	14:00:00		1172.00	650.00	141.00	28.00	62.00 0.240

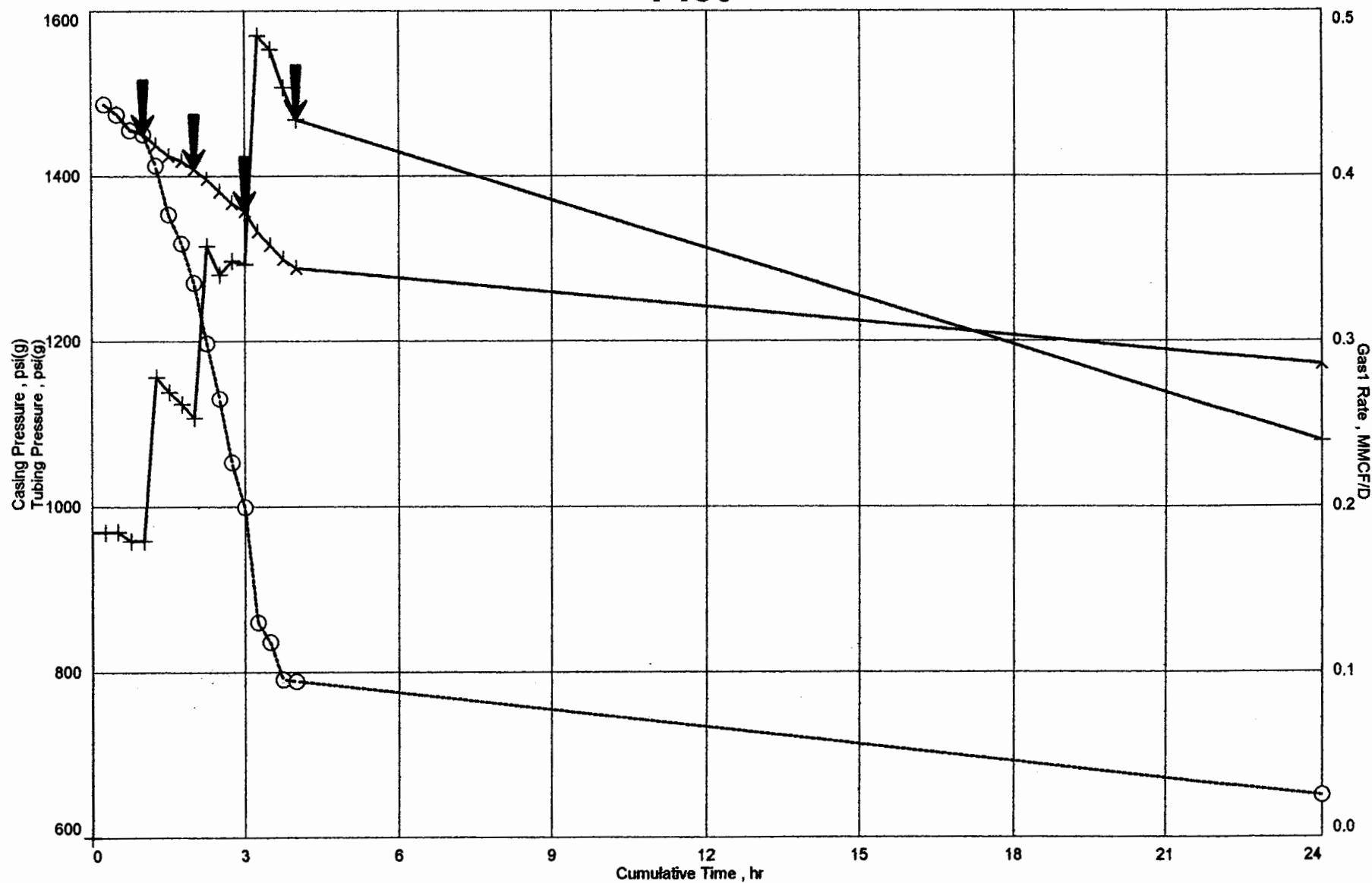
2000/11/30 14:00:00 To 12721/12/3114:00:00

Gas 0.051 Cum. 0.051 MMCF

Sam Gary Jr. & Associates
500' FSL 500' FWL
Start Test Date: 2000/11/30
Final Test Date: 2000/12/01

Nielson 25-13

Plot



From: Tom Fertil <tom@sga3d.com>
To: "Paul Simpson (E-mail)" <trilobite@eaglecom.net>
Subject: DATA FOR NIELSON 25-13 4-PT / 1-PT
Date: Mon, 27 Nov 2000 16:44:00 -0700
X-Mailer: Internet Mail Service (5.5.2650.21)

Nielson 25-13 SW SW Section 25 - 32S - 19W (500 FSL / 500 FWL) API #
15-033-21148-0000 ; TD = 5956' ; 5-1/2" 15.5# casing set at 5332' KB ;
PBTD = 5265' ; 2-3/8" 4.7# tubing set at 5248' ; No packer in the hole ;
Producing formation = Mississippian ; Perforations are from 5160' to 5250'
; GL = 1999' ; KB = 2011' ; Field = Wildcat ; Acres = 160 ; Gas purchaser
= Reliant Energy ; Well was shut-in (waiting on pipeline hook-up) Nov.
11, 2000.

If you need any other info let me know.

[illegible]