

GENERAL INFORMATION

Client Information:

Company: Samuel Gary Jr. & Associates

Contact: Tom Fertal

Site Information:

Contact: Tom Larson

Well Information:

Name: Rich 23-14

Location-Downhole: Se Sw 23-32s-19w Comanche co Kansas

Test Information:

Company: Trilobite Testing, Inc

Representative: Paul Simpson

Supervisor:

Test Type: Initial 4pt

Test Unit:

Start Date: 2000/10/27 Start Time: 10:00:00

End Date: 2000/10/27 End Time: 14:30:00

1pt.	_____	BHP buildup	_____
4pt.	<u>295</u>	days@250	_____
Gas Analysis	<u>60</u>	2nd Week	_____
Mileage	_____	3rd Week	_____
	<u>@.85 34.43</u>	4th Week	_____
Total	<u>389.43</u>		

Remarks:

10-27 Miles Paul 40.5



KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM G-1
8-7-58

TYPE TEST: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		TEST DATE: 10-27-2000			
COMPANY Samuel Gary Jr. & Associates		LEASE Rich		WELL NO. 23-14	
COUNTY Comanche	LOCATION 1130FNL 1800FWL	SECTION 23	TWP 32s	RNG 19w	ACRES 160
FIELD Colter Northwes	RESERVOIR Miss/Viola	PIPELINE CONNECTION			
COMPLETION DATE	PLUG BACK DEPTH TOTAL DEPTH	6080 6170		PACKER SET AT	
CASING SIZE 5.000	WT. 15.500	ID 4.950	SET AT 5124	PERF. 5188	TO
TUBING SIZE 2.375	WT. 4.900	ID 1.995	SET AT 6035	PERF. 5787	TO 5808
TYPE COMPLETION (Describe)		TYPE FLUID PRODUCTION			
PRODUCING THRU (Annulus/Tubing) tubing		RESERVOIR TEMPERATURE F 132		BAR PRESS - Pa 14.4 psia	
GAS GRAVITY - Gg .637		% CARBON DIOXIDE .221		% NITROGEN 6.396	
API GRAVITY OF LIQUID		VERTICAL DEPTH (H) 5220			
TYPE METER CONN. flange		METER RUN SIZE 2.070			
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 _t) (P _c) psia	psig	(P _w) (P _t) (P _c) psia		
SHUT-IN						129	143			72.00	
1.	.875	98.00	8.00	70		128	142			1.00	
2.	.875	102.00	40.00	70		126	140			1.00	
3.	.875	114.00	51.00	70		124	138			1.00	
4.	.875	110.00	62.00	70		120	134			1.00	

FLOW STREAM ATTRIBUTES

RATE NO.	COEFFICIENT (F _d) 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 _m
1.	3.820	112.4	29.99	1.2529	.9905	1.0085	143		.637
2.	3.820	116.4	68.23	1.2529	.9905	1.0088	326		.637
3.	3.820	128.4	80.92	1.2529	.9905	1.0097	387		.637
4.	3.820	124.4	87.82	1.2529	.9905	1.0094	420		.637

PRESSURE CALCULATION

RATE NO.	Pt psia	Pc psia	Pw psia	(Pc) ² Thousands	(Pw) ² Thousands	PLOTTING 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.	14.4	143.4	142.4	20.6	20.3	.3	143.4	99.2
2.	14.4	143.4	140.4	20.6	19.7	.9	326.3	97.7
3.	14.4	143.4	138.4	20.6	19.2	1.4	387.4	96.1
4.	14.4	143.4	134.4	20.6	18.1	2.5	420.3	93.0

INDICATED WELLHEAD OPEN FLOW

Mcf @ 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 _____ day of _____, 19____

Witness (if any)

For Company

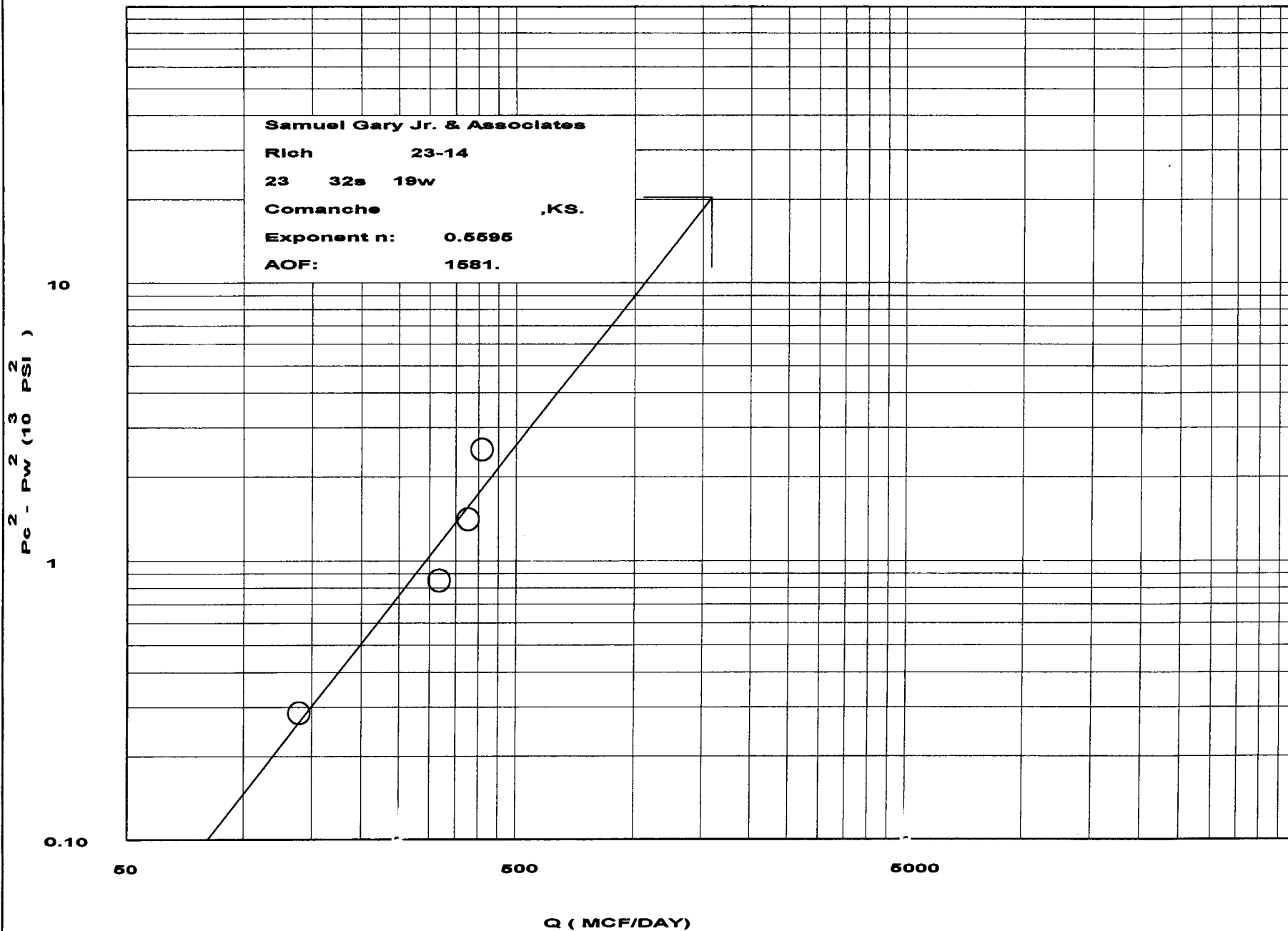
For Commission

Checked by

GAS WELL BACK PRESSURE CURVE

WELL TESTER:

TEST DATE: 10-27-2000

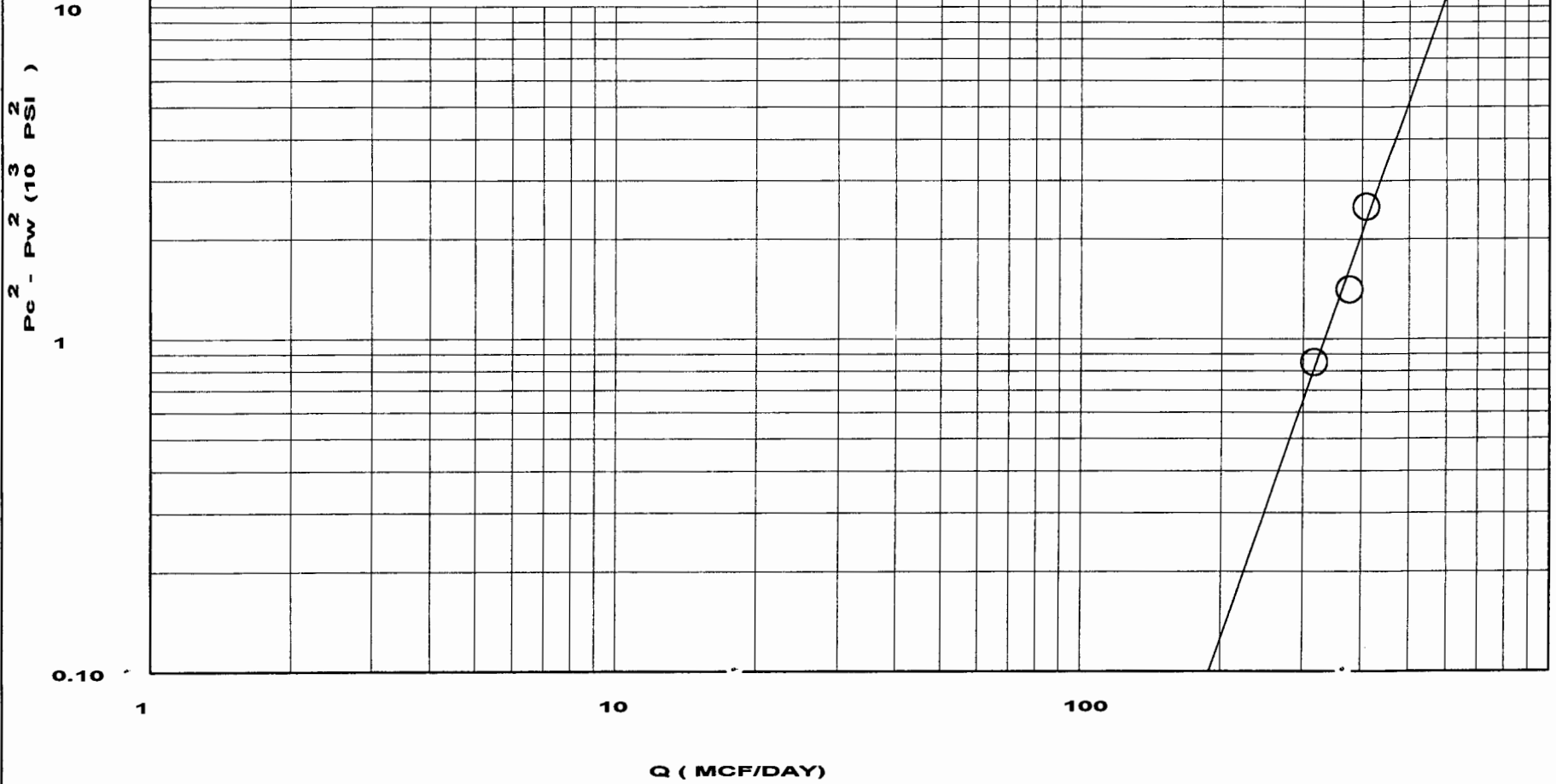


GAS WELL BACK PRESSURE CURVE

WELL TESTER:

TEST DATE: 10-27-2000

Samuel Gary Jr. & Associates
Rich 23-14
23 32s 19w
Comanche ,KS.
Exponent n: 0.2468
AOF: 701.



Samuel Gary Jr. & Associates
 Se Sw 23-32s-19w Comanche co Kansas
 Start Test Date: 2000/10/27
 Final Test Date: 2000/10/27

Rich 23-14

FieldNotes

Field Measurements

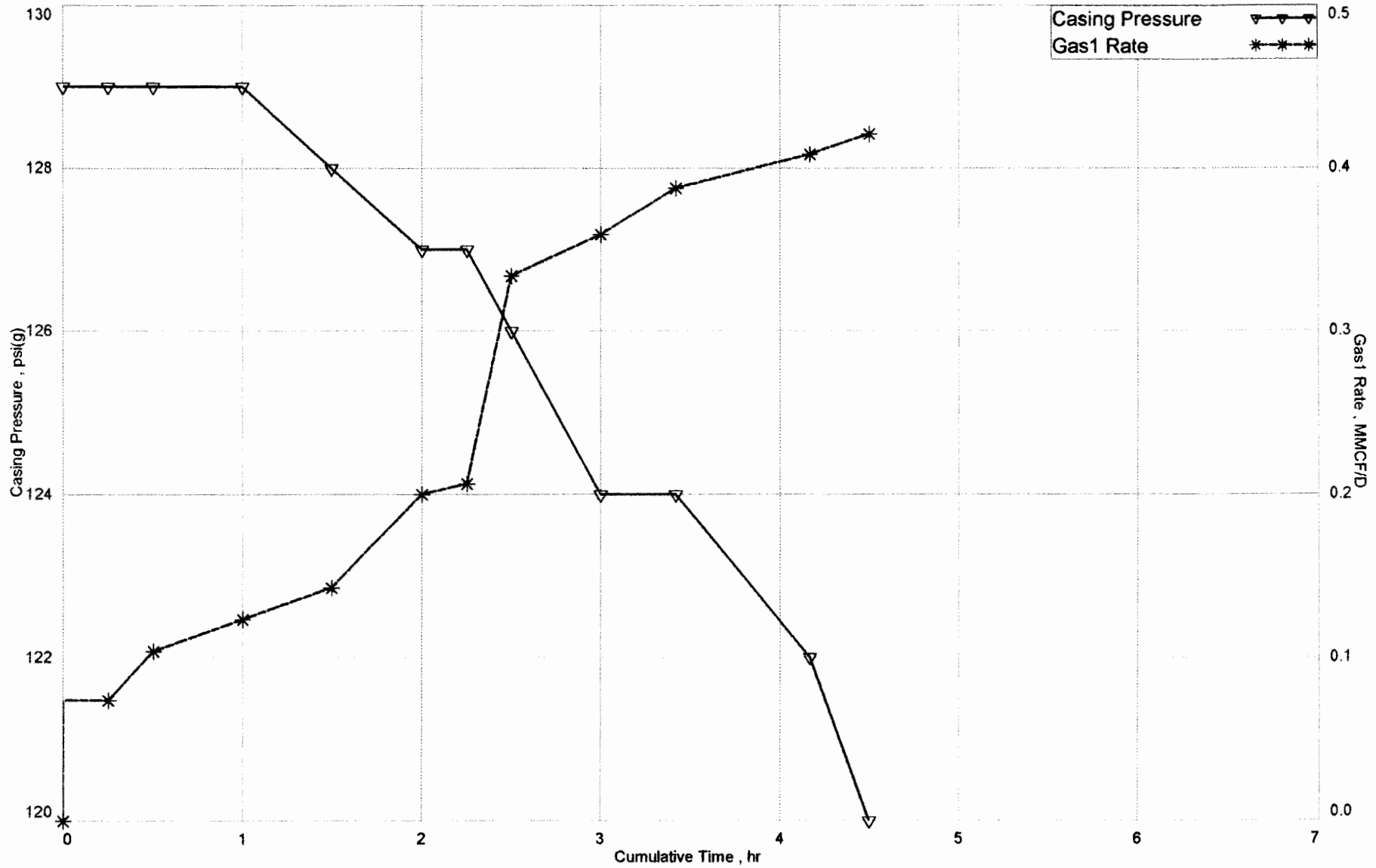
	Date	Clock Time	Comments	Casing Pres psi(g)	Static1 Pres psi(g)	Diff1 Pres in of H2O	Meter1 Temp °F	Gas1 Rate MMCF/D
1	2000/10/27	10:00:00	shutin					
2		10:00:00		129.00				
3		10:15:00		129.00	104.00	2.00	65.00	0.074
4		10:30:00		129.00	104.00	4.00	71.00	0.104
5		11:00:00		129.00	97.00	6.00	71.00	0.123
6		11:30:00	1st pt					
7		11:30:00		128.00	98.00	8.00	72.00	0.143
8		12:00:00		127.00	111.00	14.00	72.00	0.200
9		12:15:00		127.00	119.00	14.00	72.00	0.206
10		12:30:00	2nd pt					
11		12:30:00		126.00	102.00	42.00	72.00	0.334
12		13:00:00		124.00	114.00	44.00	72.00	0.359
13		13:25:00	3rd pt					
14		13:25:00		124.00	114.00	51.00	70.00	0.388
15		14:10:00		122.00	111.00	58.00	70.00	0.408
16		14:30:00	4th pt					
17		14:30:00		120.00	110.00	62.00	70.00	0.421



Samuel Gary Jr. & Associates
Se Sw 23-32s-19w Comanche co Kansas
Start Test Date: 2000/10/27
Final Test Date: 2000/10/27

Rich 23-14

Plot



From: Tom Fertal <tom@sga3d.com>
To: "Paul Simpson (E-mail)" <trilobite@eaglecom.net>
Subject: RICH 23-14 & SWISHER 26-3 DATA
Date: Fri, 27 Oct 2000 12:44:15 -0600
X-Mailer: Internet Mail Service (5.5.2650.21)

Tina,

Here are the data for the two wells.

-) Rich 23-14 API # 15-033-21042-0000 SE SW Sec. 23 - 32S - 19W Comanche Co., KS. TD = 6170; PBTD = 6080; Casing = 5-1/2" 15.5#; Tubing = 2-3/8" @ 6035'; Perfs = Mississippian (5124 - 5188) & Viola (5787 - 5808); No packer in the hole; Field Name = Colter Northwest; Acres = 320; Date of first production = Viola was 2/15/00, Miss was 7/18/00, and the ~~Viola~~ & Miss commingled was 10/5/00. *Just Miss.*

-) Swisher 26-3 API # 15-033-21102-0000 NE NW Sec. 26 - 32S - 19W Comanche Co., KS. TD = 5280; PBTD = 5237; Casing = 5-1/2" 15.5#, Tubing = 2-3/8" @ 5166'; Perfs = Mississippian (5152 - 5192); No packer in hole; Field Name = Colter Northwest; Acres = 160; Date of first production = 8/7/00.

If you need anything else, let me know.

Tom

FORM MUST BE TYPED

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 3552
Name: Samuel Gary Jr. & Associates, Inc.
Address 1670 Broadway, Suite 3300

City/State/Zip Denver, CO 80202-4638

Purchaser: PG&E

Operator Contact Person: Tom Fertal

Phone 303-831-4673

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Dale Padgett

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSV, Expl., Cathodic, etc.)

If Workover/Re-Entry: Old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-Perf. Conv. To Inj/SWD
 Plug Back PBD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

11/26/99 12/13/99 2/15/00
Spud Date Date Reached TD Completion Date

API No. 15- 033-21042-0000
County Comanche

ap - NW - SE - SW Sec. 23 Twp. 32S Rge. 19 X E W
1130 Feet from South Line of Section
1800 Feet from West Line of Section

Footages calculated from nearest outside section corner: SW

Lease Name Rich Well # 23-14

Field Name Wildcat

Producing Formation Viola

Elevation: Ground 1980' KB 1983'

Total Depth 5170' PBD 5085'

Amount of Surface Pipe Set and Cemented at 640 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 5271 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sq cm.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content 9000 ppm Fluid Volume 0 bbls

Dewatering method used used steel pits, hauled mud & cuttings

Location of fluid disposal if hauled offsite: hauled to "haul-off" pit located in Sw/4 Sec. 1-33S-19W

Operator Name Samuel Gary Jr. & Associates, Inc.

Lease Name Collar "haul-off" pit

SW Quarter Sec. 1 Twp. 33S Rng. 19 W

County Comanche Docket No. _____

INSTRUCTIONS: An original and two copies of this information shall be filed with the Kansas Corporation Commission, 130 South Market, Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82030196 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geological well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature _____

Title Senior Geologist Date 3-6-00

Subscribed and sworn to before me this 6th day of March 2000.

Notary Public _____

My Commission Expires _____

K.C.C. OFFICE USE ONLY			
F	<input type="checkbox"/> Letter of Confidentiality Attached		
C	<input type="checkbox"/> Wireline Log Received		
C	<input type="checkbox"/> Geologist Report Received		
Distribution			
<input type="checkbox"/>	KCC	<input type="checkbox"/>	SWC/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/>	Plug
<input type="checkbox"/>		<input type="checkbox"/>	NGPA
<input type="checkbox"/>		<input type="checkbox"/>	Other
(Specify)			

Form ACO-1 (7-91)

3HP-130

Operator Name Samuel Gary Jr. & Associate, Inc. Lease Name Rich Well # 23-14
 Sec. 23 Twp. 32S Rge. 1S East West County Comanche

Instructions: Show important tops and base of formation penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum Name Top	<input type="checkbox"/> Sample Datum
Sample Sent to Geological Survey	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No			
Cores Taken	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No			
List all E. Logs Run:	dual induction comp neutron-density micro log sonic log				

CASING RECORD <input checked="" type="checkbox"/> New <input checked="" type="checkbox"/> Used							
Report all strings set - conductor, surface, intermediate, production, etc.							
Purpose of string	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
conductor	30"	20"		80'	10 sk grout	7 yds	
surface	12-1/4"	8-5/8"	25	640'	250 sk 85-35 poz & 100 sk class "A"	350	3% CC
production	7-7/8"	5-1/2"	15.5	6170'	Midcon II	290	2% CC, 1/4#/sk floccle, 5#/sk gilsonite, 0.4% H-344 & 0.5% CFR-3

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

Shots per Foot	PERFORATION RECORD - Bridge Plug Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement, Squeeze Record (Amount and Kind of Material Used)	
				Depth
4	5787-94		500 gal 28% DSFe	5787-94'
4	5796-5800'			

TUBING RECORD		Size 2-3/8"	Set At 5762'	Packer At 5759'	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 2/15/00		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water Bbls.
			435		Gas-Oil Ratio
					Gravity

Disposition of Gas Vented Sold Used on Lease (if vented, submit ACO-18).

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval 5787-5800'

no charge

Company: Samuel Gary Jr. & Associates
Address:
:
:

Date: April 20 1900
to: April 20 1900

Well Name : Gradient Test Sam Gary Jr. & Assoc. Rich 34-14
Location : 23-32s-9wComanche co KS Elev. : 0.00 KB(ft) 0.00 CF(ft)
Field/Pool: Prod. Interval: 0.00 to 0.00 ft(CF)
Test Type : Shut-In Gradient Test Mid-Point Perf: 0.00 ft(CF)
Status : Tubing: 2.37 inches @ 5762.00 ft(CF)

Wire Line Company : Trilobite Testing LLC

Top Recorder Serial # 3030 Run Depth: 0.00 ft(CF)
Range : 4995 Sample Memory: 0 Samples
Start Date/Time: Apr 20 1900 @ 9:20:30 End Date/Time: Apr 20 1900 @ 13:50:30
Date of Last Calibration: 0 0

Bottom Recorder Serial # 3030 Run Depth: 0.00 ft(CF)
Range : 4995 Sample Memory: 0 Samples
Start Date/Time: Apr 20 1900 @ 9:20:30 End Date/Time: Apr 20 1900 @ 13:50:30
Date of Last Calibration: 0 0

NOTE - 1 Sample = Time, Pressure, Temperature

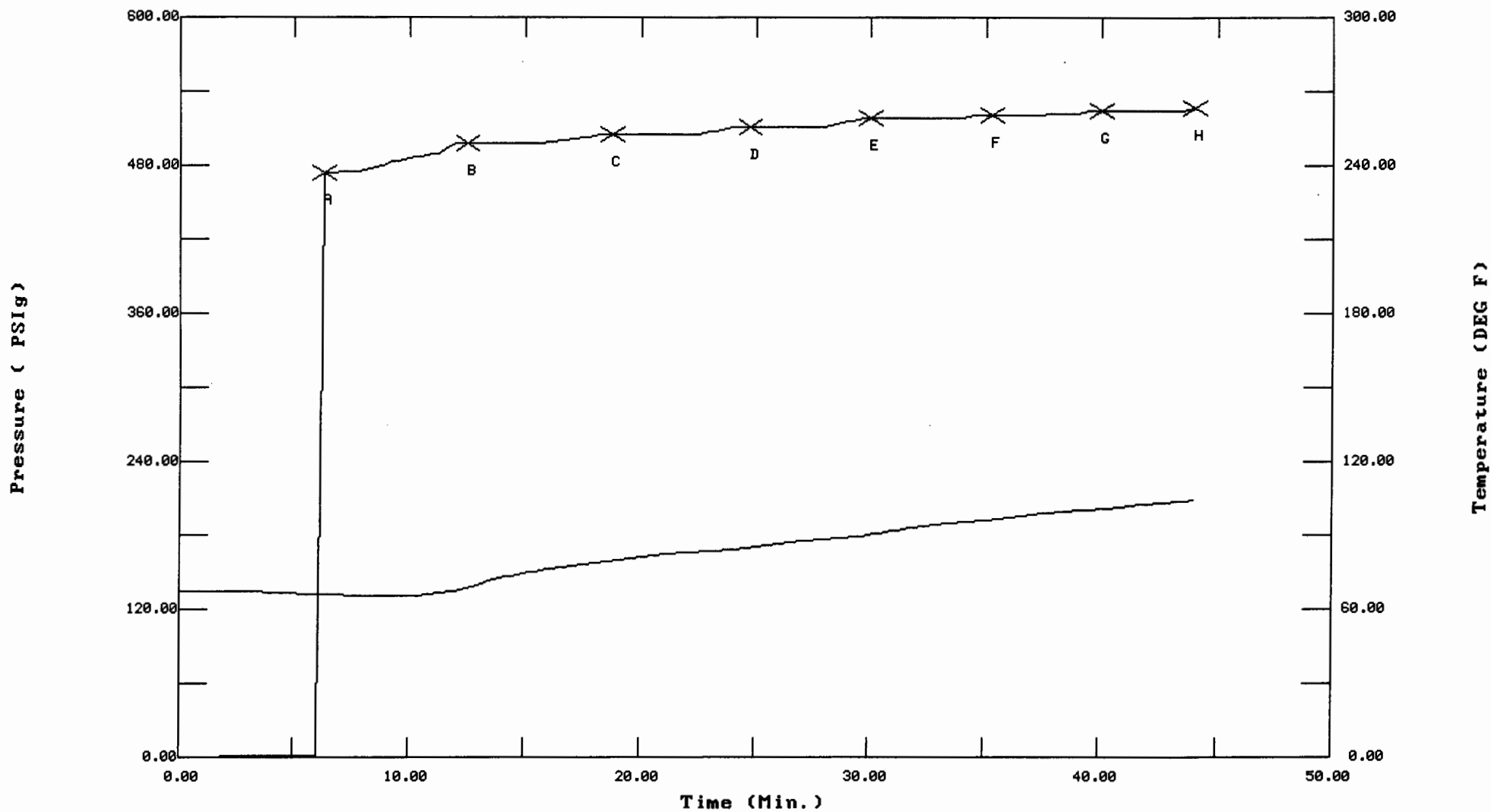
Program: No sampling program

tubing Pressure: Initial: Not Reported Final: Not Reported
 casing Pressure: Initial: Not Reported Final: Not Reported

Electronic Data supplied on disk in standard ASE format.

TEST HISTORY

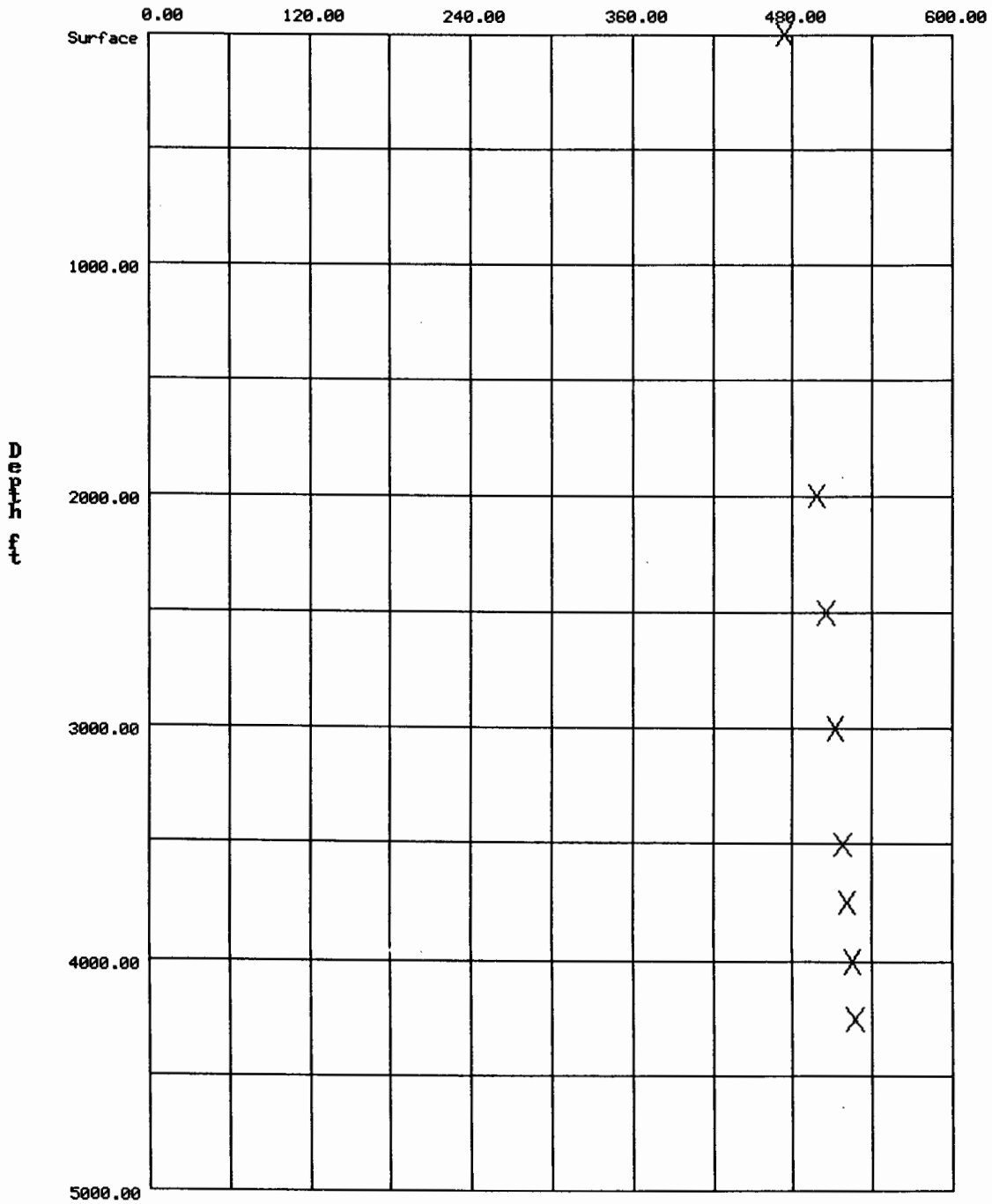
Gradient Test Sam Gary Jr. & Assoc. Rich 34-14



STATIC GRADIENT PLOT

Gradient Test Sam Gary Jr. & Assoc. Rich 34-14

Pressure (PSig)



***** STATIC GRADIENT DATA *****

Gradient Test Sam Gary Jr. & Assoc. Rich 34-14

Date: 04/20/00

Time: 09:20:30

Depth ft	Time From hh:mm:ss	Time To hh:mm:ss	Pressure PSIg	Gradient PSIg/ft
0.00	00:00:00	00:00:00	474.00	0.0000
2000.00	00:00:00	00:00:00	498.00	0.0120
2500.00	00:00:00	00:00:00	505.00	0.0140
3000.00	00:00:00	00:00:00	512.00	0.0140
3500.00	00:00:00	00:00:00	518.00	0.0120
3750.00	00:00:00	00:00:00	521.00	0.0120
4000.00	00:00:00	00:00:00	525.00	0.0160
4250.00	00:00:00	00:00:00	527.00	0.0080

ALPINE SUBSURFACE ELECTRONICS PROBE DATA LISTING

TEST: Gradient Test Sam Gary Jr. & Assoc. Rich 34-14

DATE: 04/20/00

TIME: 09:20:30

PAGE: 001

Sample	Date	Time	Relative Seconds	Temperature DEG F	Pressure PSIG
1	00/04/20	09:20:31	000:00:01	67.07 DEG F	0.64 PSIG
Print every 40 samples					
41	00/04/20	09:21:11	000:00:41	67.28 DEG F	0.00 PSIG
A 80	00/04/20	09:26:45	000:06:15	65.80 DEG F	474.27 PSIG
** Flag Point A in lubricator					
B 105	00/04/20	09:33:00	000:12:30	68.34 DEG F	497.94 PSIG
** Flag Point B 2000'					
C 130	00/04/20	09:39:15	000:18:45	79.21 DEG F	505.10 PSIG
** Flag Point C 2500'					
D 154	00/04/20	09:45:15	000:24:45	84.65 DEG F	511.74 PSIG
** Flag Point D 3000'					
E 175	00/04/20	09:50:30	000:30:00	89.89 DEG F	518.29 PSIG
** Flag Point E 3500'					
F 196	00/04/20	09:55:45	000:35:15	96.17 DEG F	521.55 PSIG
** Flag Point F 3750'					
G 215	00/04/20	10:00:30	000:40:00	100.48 DEG F	524.94 PSIG
** Flag Point G 4000'					
H 231	00/04/20	10:04:30	000:44:00	104.00 DEG F	526.92 PSIG
** Flag Point H 4250'					
End of File					

FieldNotes

Field Measurements

	Date	Clock Time	Comments	Tubing Pres psi(g)	Static1 Pres psi(g)	Diff1 Pres in of H2O	Meter1 Temp °F	Gas1 Rate MMCF/D
1	2000/04/20	09:00:00	shutin	1145.00				
2		12:30:00	started test	1143.00	0.00	0.00	0.00	0.000
3		12:45:00		1127.00	85.00	24.00	85.00	0.304
4		13:00:00		1118.00	53.00	30.00	85.00	0.279
5		13:15:00		1110.00	48.00	32.00	85.00	0.277
6		13:30:00		1108.00	48.00	33.00	80.00	0.282
7		15:00:00		1071.00	40.00	36.00	80.00	0.275

2000/04/20 09:00:00 To 2000/04/20 15:00:00
 Gas 0.029 Cum. 0.029 MMCF

Plot

