

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1241724
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1241724

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input 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

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	LEEBRICK FARMS 1-27
Doc ID	1241724

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL

ALLIED OIL & GAS SERVICES, LLC 063777

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley KS

DATE <u>10/16/14</u>	SEC. <u>27</u>	TWP. <u>4</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30p</u>	JOB FINISH <u>12:00am</u>
LEASE <u>Lebrick</u>	WELL # <u>1-27</u>	LOCATION <u>Colby 17 1/2 W TO Rowling CR</u>				COUNTY <u>Cherokee KS</u>	STATE
OLD OR NEW (Circle one) <u>NEW</u>			<u>K 3 W 2 1/2 S Winto</u>				

CONTRACTOR <u>Murphy B</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12"4</u>	T.D. <u>300</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>300</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>18.28 BBL</u>	

CEMENT	AMOUNT ORDERED	<u>280 Com 370CC</u>
COMMON	<u>280 SK @ 17.20</u>	<u>5012.00</u>
POZMIX	@	
GEL	@	
CHLORIDE	<u>290 @ 1.10</u>	<u>319.00</u>
ASC	@	
Material @ 1.60 @ 2.80/CC		
<u>(1764.30/3000)</u>		
HANDLING	<u>294 @ 2.40</u>	<u>705.60</u>
MILEAGE	<u>2.55 mile @ 17.555/mile</u>	<u>44.70</u>
TOTAL		<u>5261.30</u>

REMARKS:

Run Cg, Circulate, Mix Cement, Displace
Cement Shut in
Cement fluid Circulate 8 BBL to pit
Truck Run along Hatin, 5 hrs

SERVICE

DEPTH OF JOB	<u>300</u>	
PUMP TRUCK CHARGE	<u>1512.00</u>	
EXTRA FOOTAGE	@	
MILEAGE	<u>30 miles @ 7.20</u>	<u>2160.00</u>
MANIFOLD	@	
<u>Water truck 5000 @ 4.40</u>		<u>2200.00</u>
TOTAL	<u>(1495.56/3000)</u>	<u>4985.00</u>

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		

CHARGE TO: Sara Gary

STREET _____

CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Rodney Fair

SIGNATURE Rodney Fair

SALES TAX (If Any) _____

TOTAL CHARGES 10,806.30

DISCOUNT 3,259.86 (30%) IF PAID IN 30 DAYS

7,606.34 Net

ALLIED OIL & GAS SERVICES, LLC 066296

Federal Tax I.D. # 20-3651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley KS

DATE <u>10-24-14</u>	SEC <u>27</u>	TWP <u>4</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>11:30 a.m.</u>	JOB START <u>3:30 a.m.</u>	JOB FINISH <u>4:30 p.m.</u>
LEASE <u>Leebrick</u>	WELL # <u>1-27</u>	LOCATION <u>Colby N to Rd K 3 W 25</u>	COUNTY <u>Rawlins</u>	STATE <u>KS</u>			
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>Windo</u>				

CONTRACTOR Murfin B OWNER Same

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4735' CEMENT

CASING SIZE _____ DEPTH _____ AMOUNT ORDERED 255 sks 60/40

TUBING SIZE _____ DEPTH _____ 4 1/2 gal 1/4" Flo-seal

DRILL PIPE 4 1/2 DEPTH 2870'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 5 bbl water / 8.7 bbl mud EQUIPMENT

2nd plug 5 bbl water 10 bbl mud

PUMP TRUCK # 120 CEMENTER Paul Beaver

BULK TRUCK # 100 DRIVER KIKO (FWS)

BULK TRUCK # _____ DRIVER _____

BULK TRUCK # _____ DRIVER _____

BULK TRUCK # _____ DRIVER _____

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BULK TRUCK # _____ DRIVER _____

REMARKS:

- mix 50 sks @ 2870' Displace w/mud
- mix 100 sks @ 2060' Displace w/mud
- mix 50 sks @ 350'
- mix 10 sks @ 40' w/ plug
- mix 30 sks in R.H
- mix 15 sks in M.H

*Thank You!
Paul + Crew*

CHARGE TO: Samuel Gary + Assoc

STREET _____

CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Rodney Farr

SIGNATURE Rodney Farr

CEMENT

AMOUNT ORDERED 255 sks 60/40

4 1/2 gal 1/4" Flo-seal

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

List (60/40/4) 255 sks @ 18.92 4824.60

Flo-seal 64 @ 2.97 190.08

_____ @ _____

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SALES TAX (If Any) _____

TOTAL CHARGES 10,054.90

DISCOUNT 3,103.47 (30%) IF PAID IN 30 DAYS

7351.43 Net.

SERVICE

DEPTH OF JOB 2870'

PUMP TRUCK CHARGE 2483.59

EXTRA FOOTAGE _____ @ _____

MILEAGE M.H.V 50 @ 7.70 385.00

MANIFOLD _____ @ _____

M.L.V 50 @ 4.40 220.00

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PLUG & FLOAT EQUIPMENT

8 1/8 Wooden plug @ 110.00

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TOTAL 110.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

27/4s/34w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Leebrick Farms #1-27

Job Ticket: 60094

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2014.10.19 @ 19:31:00

GENERAL INFORMATION:

Formation: **LKC "A - C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:11:45

Time Test Ended: 04:44:30

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

Interval: 4060.00 ft (KB) To 4114.00 ft (KB) (TVD)

Reference Elevations: 3167.00 ft (KB)

Total Depth: 4114.00 ft (KB) (TVD)

3162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 147.75 psig @ 4061.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.19

End Date:

2014.10.20

Last Calib.:

2014.10.20

Start Time: 19:31:05

End Time:

04:44:30

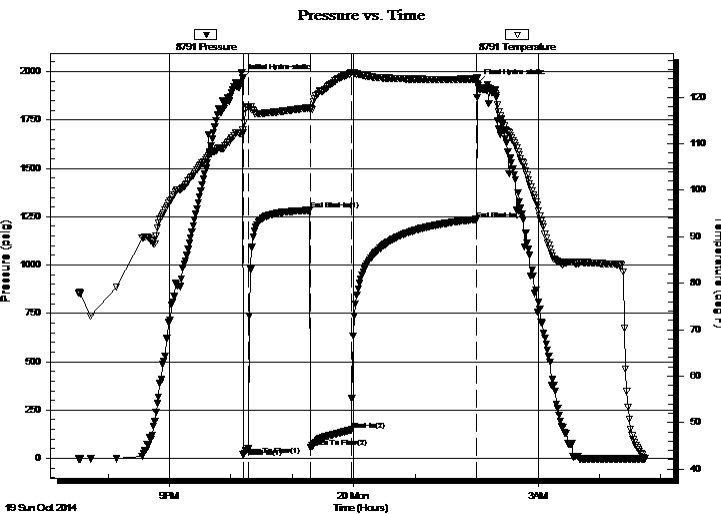
Time On Btm:

2014.10.19 @ 22:11:30

Time Off Btm:

2014.10.20 @ 02:01:00

TEST COMMENT: 5 - IF: Blow built to 3"
60 - IS: No blow back
40 - FF: Blow built to BOB (11") at 36 min.
120 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1966.65	112.91	Initial Hydro-static
1	17.80	112.31	Open To Flow (1)
6	50.44	117.72	Shut-In(1)
66	1283.26	117.76	End Shut-In(1)
67	55.04	117.33	Open To Flow (2)
106	147.75	125.25	Shut-In(2)
229	1236.23	123.91	End Shut-In(2)
230	1939.54	122.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
128.00	SCMW 93%w, 7%m	0.63
125.00	MW w/trace oil 50%m, 50%w	1.23
35.00	SO/WCM 83%m, 15%m, 2%o	0.49

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

27/4s/34w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Leebrick Farms #1-27

ATTN: Clayton Camozzi

Job Ticket: 60094

DST#: 1

Test Start: 2014.10.19 @ 19:31:00

GENERAL INFORMATION:

Formation: **LKC "A - C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:11:45

Time Test Ended: 04:44:30

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

Interval: 4060.00 ft (KB) To 4114.00 ft (KB) (TVD)

Reference Elevations: 3167.00 ft (KB)

Total Depth: 4114.00 ft (KB) (TVD)

3162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8320

Outside

Press @ Run Depth: psig @ 4061.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.19 End Date: 2014.10.20

Last Calib.: 2014.10.20

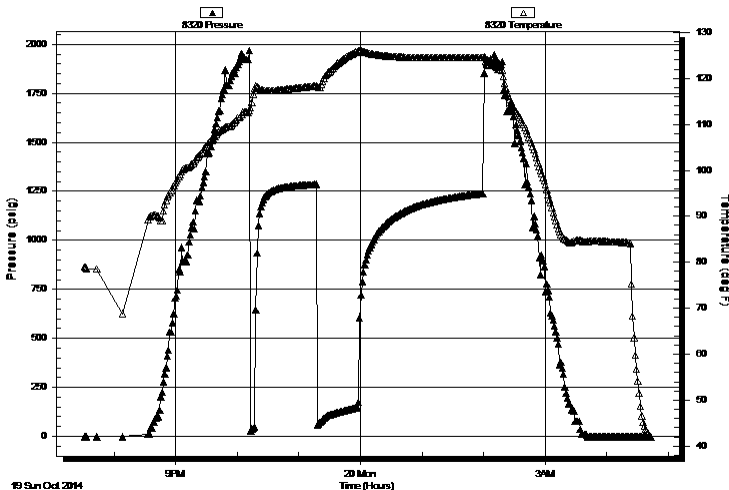
Start Time: 19:31:05 End Time: 04:44:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 - IF: Blow built to 3"
60 - IS: No blow back
40 - FF: Blow built to BOB (11") at 36 min.
120 - FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
128.00	SCMW 93%w, 7%m	0.63
125.00	MW w/trace oil 50%m, 50%w	1.23
35.00	SO/WCM 83%m, 15%m, 2%o	0.49

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

1515 Wynkoop STE 700
Denver, CO 80202

ATTN: Clayton Camozzi

27/4s/34w Rawlins KS

Leebrick Farms #1-27

Job Ticket: 60094

DST#: 1

Test Start: 2014.10.19 @ 19:31:00

GENERAL INFORMATION:

Formation: **LKC "A - C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:11:45

Time Test Ended: 04:44:30

Interval: 4060.00 ft (KB) To 4114.00 ft (KB) (TVD)

Total Depth: 4114.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

Reference Elevations: 3167.00 ft (KB)

3162.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Fluid

Press @ RunDepth: psig @ 4025.00 ft (KB)

Start Date: 2014.10.19

End Date: 2014.10.20

Start Time: 19:31:05

End Time: 04:45:00

Capacity: 8000.00 psig

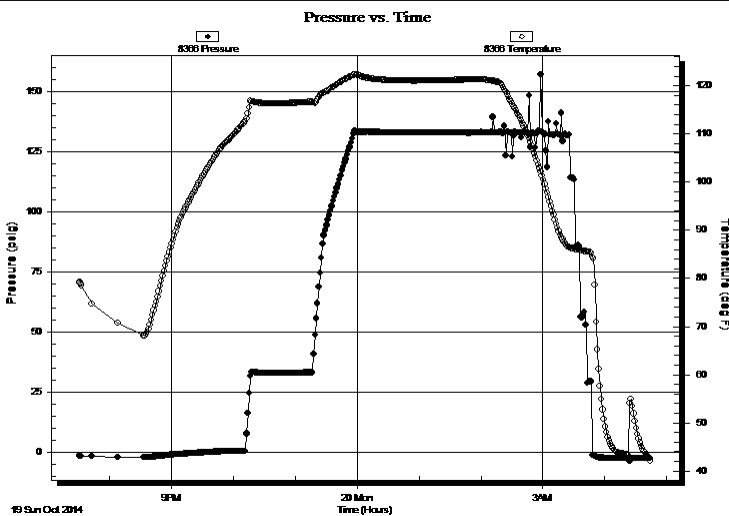
Last Calib.: 2014.10.20

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 - IF: Blow built to 3"
60 - IS: No blow back
40 - FF: Blow built to BOB (11") at 36 min.
120 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
128.00	SCMW 93%w, 7%m	0.63
125.00	MW w/trace oil 50%w, 50%w	1.23
35.00	SO/WCM 83%w, 15%w, 2%o	0.49

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

27/4s/34w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Leebrick Farms #1-27

Job Ticket: 60094

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2014.10.19 @ 19:31:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

44000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
128.00	SCMW 93%w , 7%m	0.629
125.00	MW w/trace oil 50%m, 50%w	1.225
35.00	SO/WCM 83%m, 15%m, 2%o	0.491

Total Length: 288.00 ft Total Volume: 2.345 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

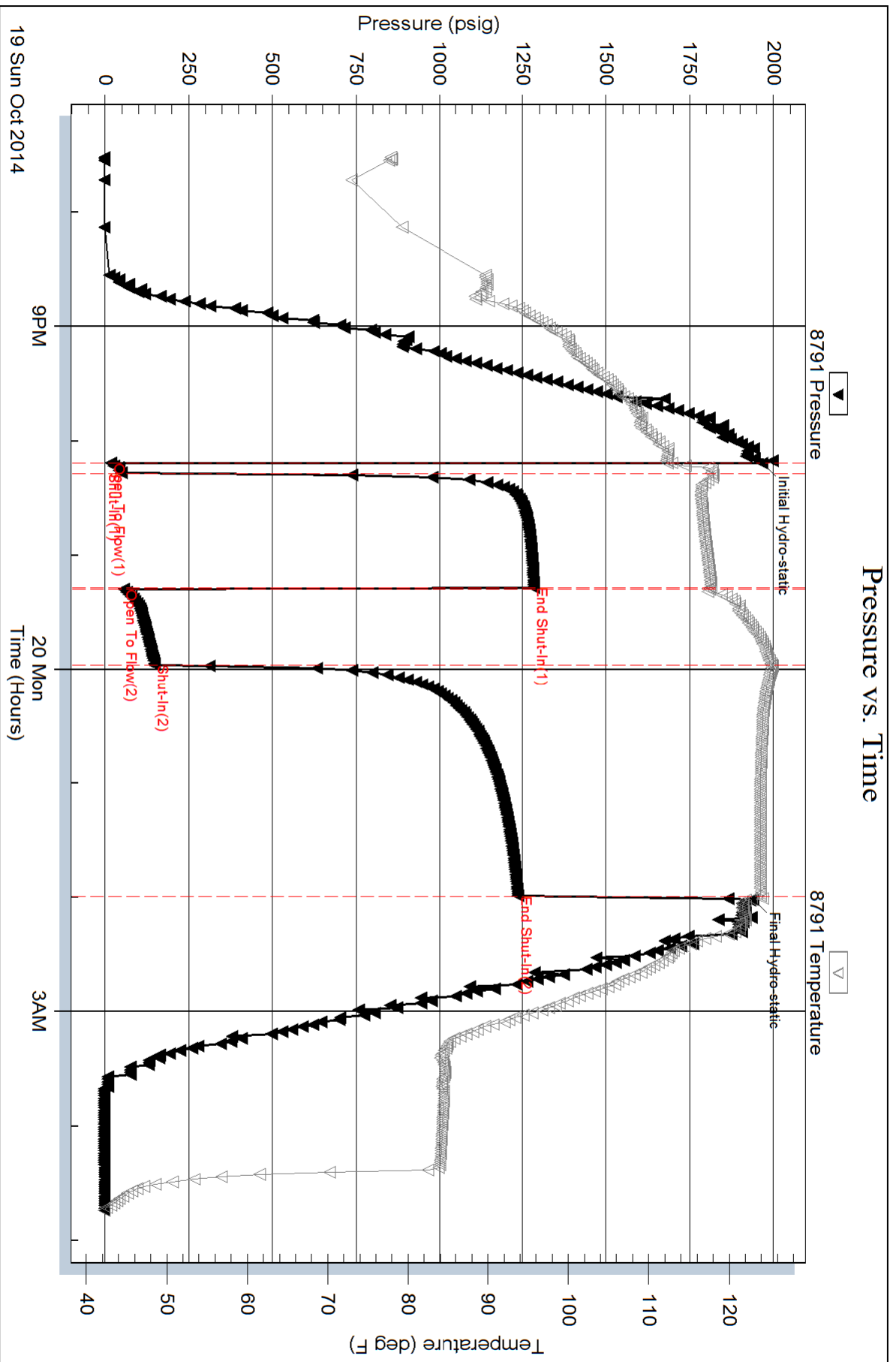
Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .275 ohms @ 45.7 deg F Chlorides = 44,000 ppm

Sampler = 360 PSI, 1800 mL Water 98%w , 2%m, 600 mL SO/MCW 63%w , 32%m, 5%o RW = .237 ohms @ 46.4 deg F Chlorides = 50,000 ppm

Pressure vs. Time

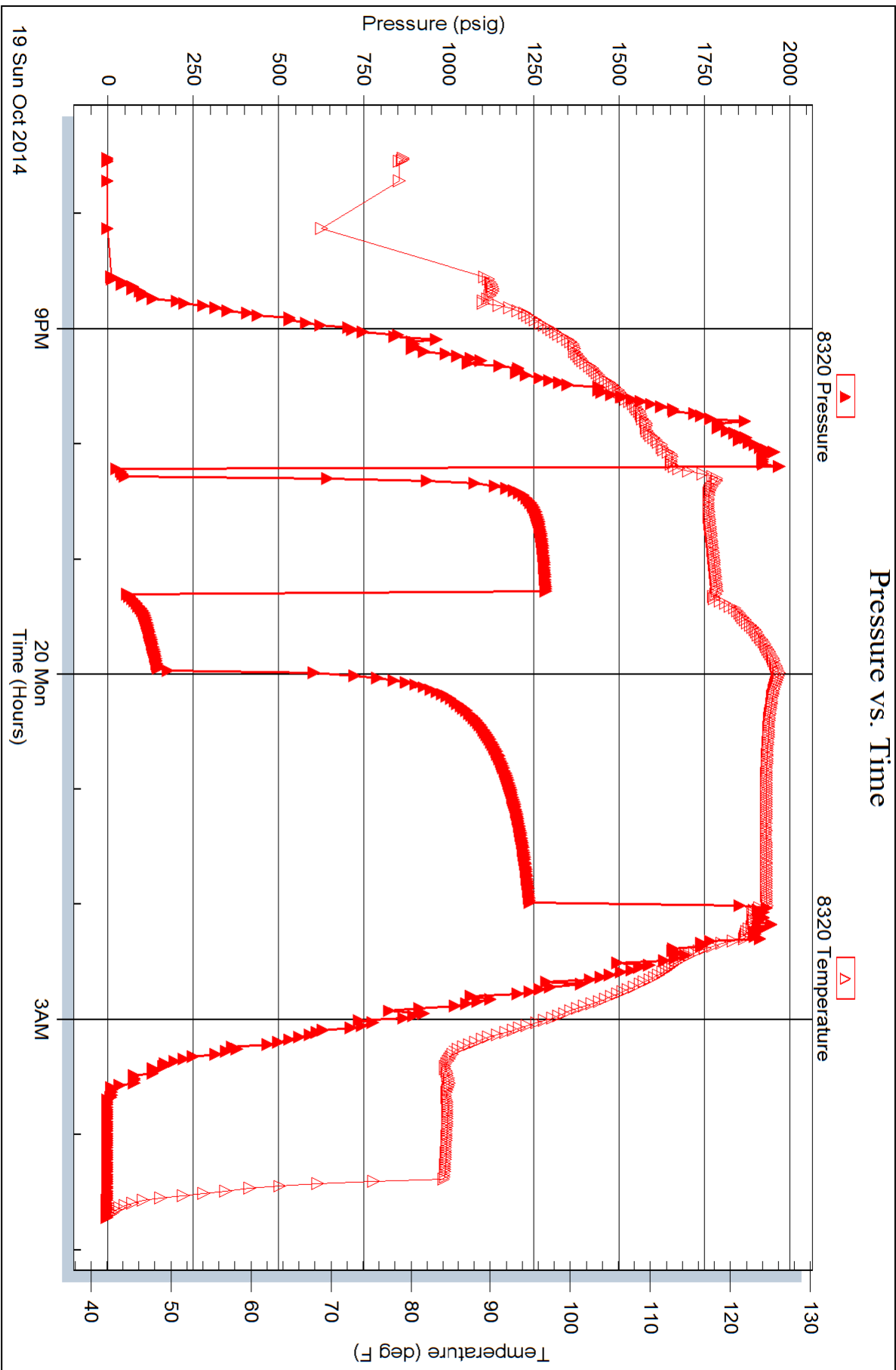


Serial #: 8320

Outside Samuel Gary Jr. & Associates

Leebrick Farms #1-27

DST Test Number: 1



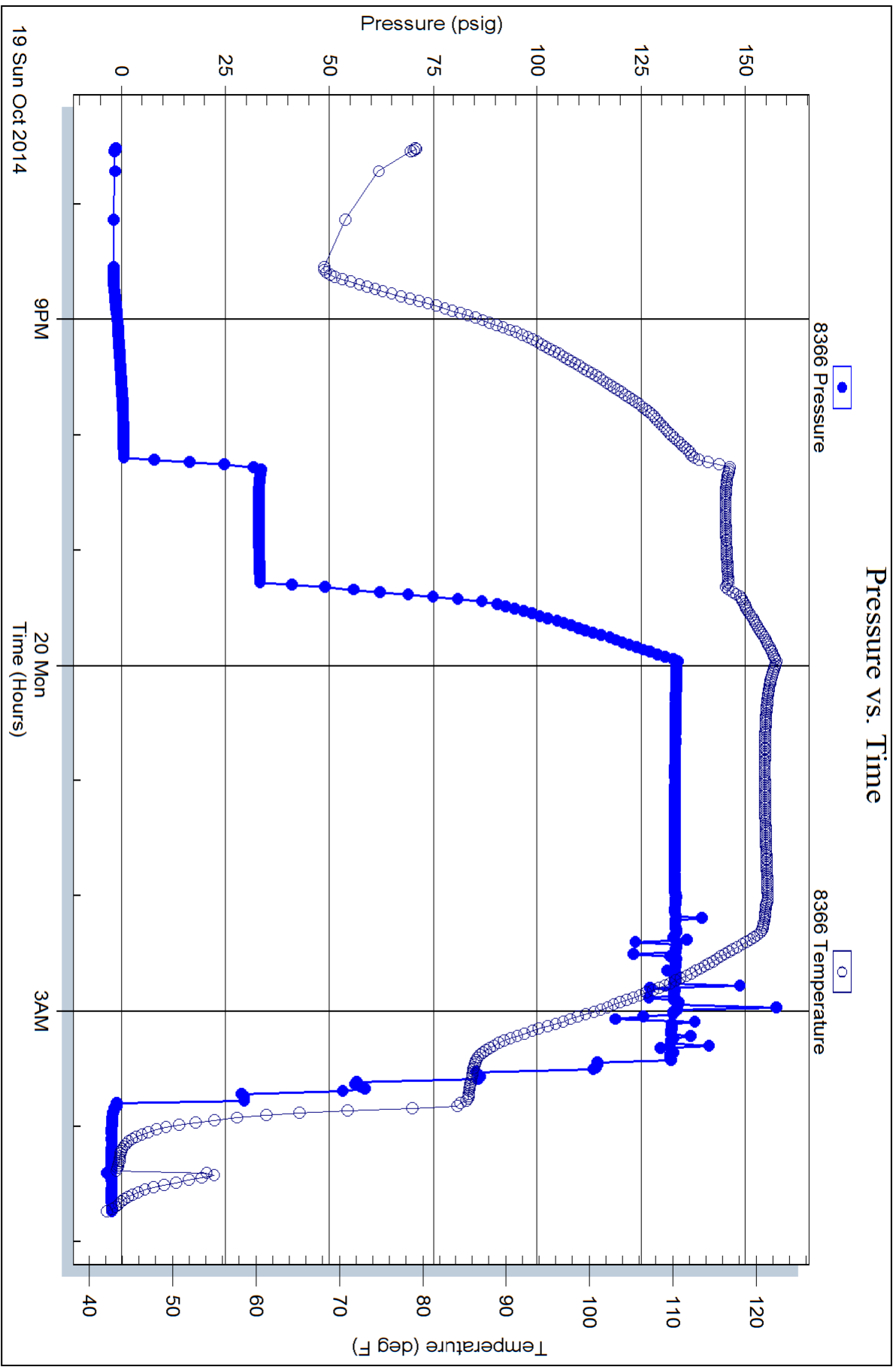
Serial #: 8366

Fluid

Samuel Gary Jr. & Associates

Leebrick Farms #1-27

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

27/4s/34w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Leebrick Farms #1-27

Job Ticket: 60095

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2014.10.20 @ 15:41:00

GENERAL INFORMATION:

Formation: **LKC "F - G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:58:45

Time Test Ended: 22:58:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4130.00 ft (KB) To 4184.00 ft (KB) (TVD)

Reference Elevations: 3167.00 ft (KB)

Total Depth: 4184.00 ft (KB) (TVD)

3162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 232.39 psig @ 4131.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.20

End Date:

2014.10.20

Last Calib.:

2014.10.20

Start Time:

15:41:05

End Time:

22:58:14

Time On Btm:

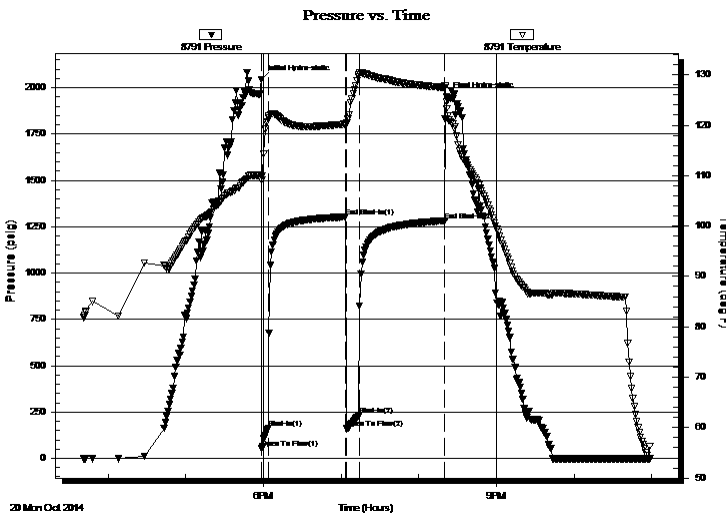
2014.10.20 @ 17:58:30

Time Off Btm:

2014.10.20 @ 20:21:30

TEST COMMENT: 5 - IF: Blow built to BOB (11") at 5 min.
60 - IS: No blow back
10 - FF: Blow built to BOB at 5 1/4 min.
60 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2044.61	109.92	Initial Hydro-static
1	52.82	109.13	Open To Flow (1)
6	161.63	121.46	Shut-In(1)
65	1302.75	120.20	End Shut-In(1)
66	160.38	120.41	Open To Flow (2)
76	232.39	129.97	Shut-In(2)
142	1282.40	127.50	End Shut-In(2)
143	1952.64	123.34	Final Hydro-static

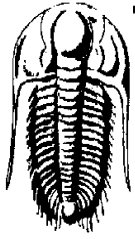
Recovery

Length (ft)	Description	Volume (bbl)
191.00	MCW w/trace oil 72%w, 28%m	0.98
254.00	WCM w/trace oil 65%w, 35%w	3.56
20.00	Mud w/trace oil 100%w	0.28

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates
1515 Wynkoop STE 700
Denver, CO 80202
ATTN: Clayton Camozzi

27/4s/34w Rawlins KS

Leebrick Farms #1-27

Job Ticket: 60095 **DST#: 2**
Test Start: 2014.10.20 @ 15:41:00

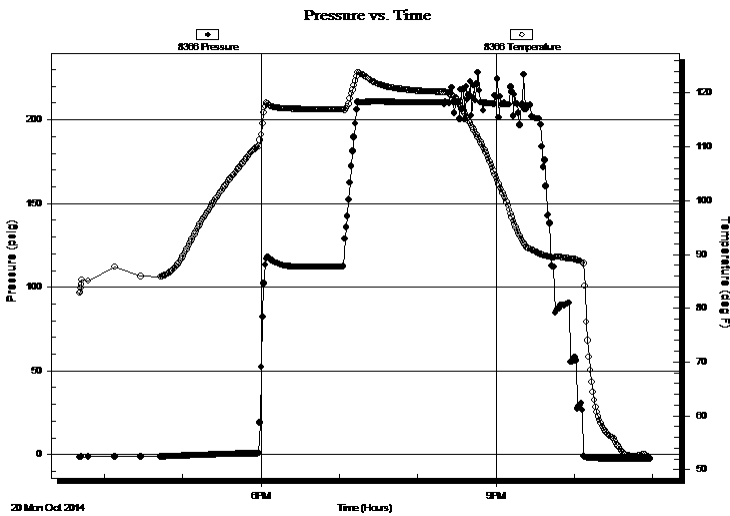
GENERAL INFORMATION:

Formation: **LKC "F - G"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 17:58:45 Tester: James Winder
 Time Test Ended: 22:58:15 Unit No: 57
Interval: 4130.00 ft (KB) To 4184.00 ft (KB) (TVD)
 Reference Elevations: 3167.00 ft (KB)
 Total Depth: 4184.00 ft (KB) (TVD) 3162.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8366 Fluid

Press @ Run Depth:	psig @	4095.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2014.10.20	End Date:	2014.10.20	Last Calib.:	2014.10.20
Start Time:	15:41:05	End Time:	22:58:44	Time On Btm:	
			Time Off Btm:		

TEST COMMENT: 5 - IF: Blow built to BOB (11") at 5 min.
 60 - IS: No blow back
 10 - FF: Blow built to BOB at 5 1/4 min.
 60 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
191.00	MCW w/trace oil 72%w , 28%m	0.98
254.00	WCM w/trace oil 65%m, 35%w	3.56
20.00	Mud w/trace oil 100%m	0.28

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

27/4s/34w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Leebrick Farms #1-27

Job Ticket: 60095

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2014.10.20 @ 15:41:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
191.00	MCW w/trace oil 72%w , 28%m	0.985
254.00	WCM w/trace oil 65%m, 35%w	3.563
20.00	Mud w/trace oil 100%m	0.281

Total Length: 465.00 ft Total Volume: 4.829 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = . 197 ohms @ 55.7 deg F Chlorides = 48,000 ppm

Sampler = 230 PSI, 2500 mL Water 97%w , 3%m, RW = . 210 ohms @ 53.7 deg F Chlorides = 47,000 ppm

Serial #: 8791

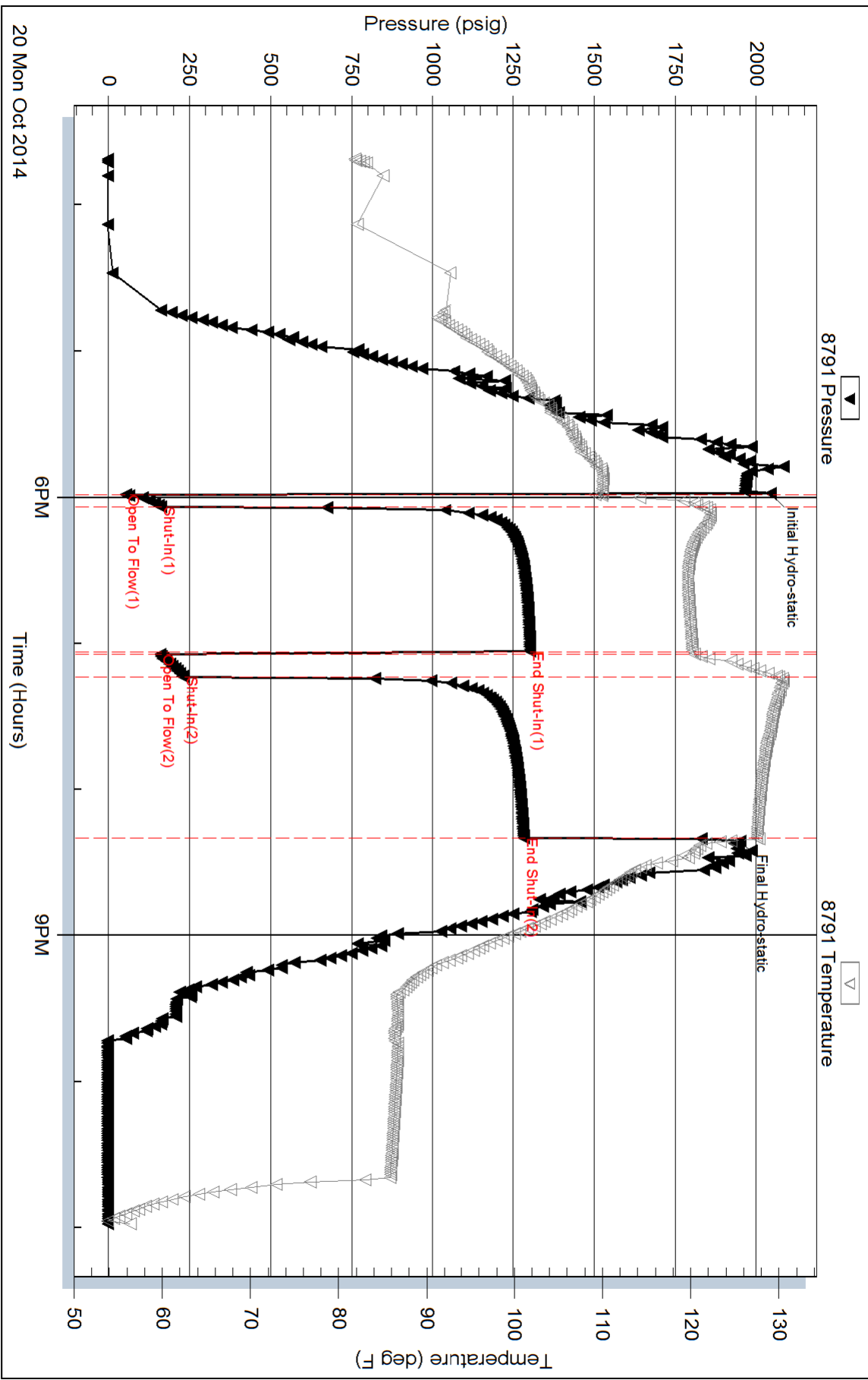
Inside

Samuel Gary Jr. & Associates

Leebrick Farms #1-27

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 60095

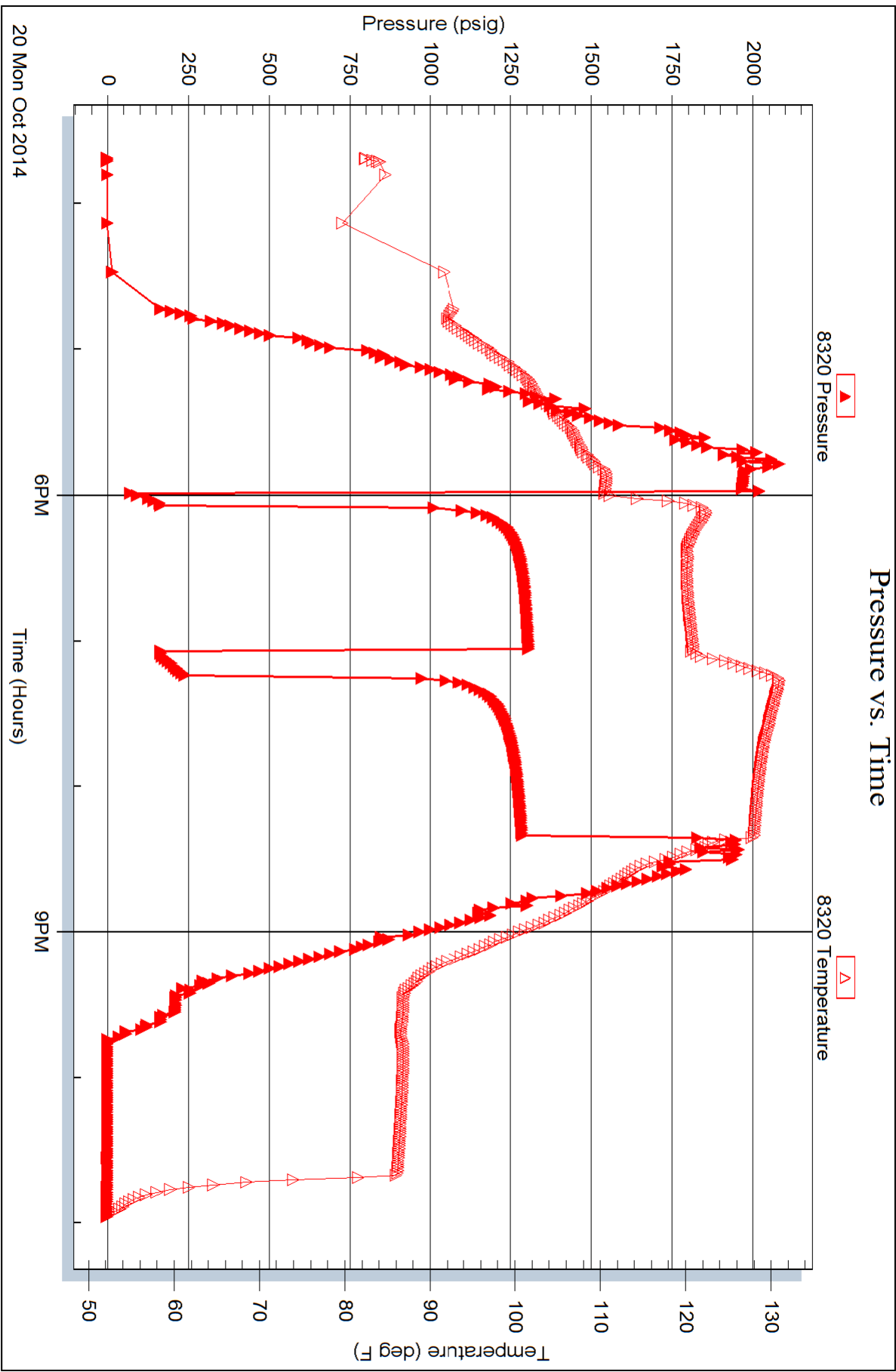
Printed: 2014.10.21 @ 02:15:07

Serial #: 8320

Outside Samuel Gary Jr. & Associates

Leebrick Farms #1-27

DST Test Number: 2



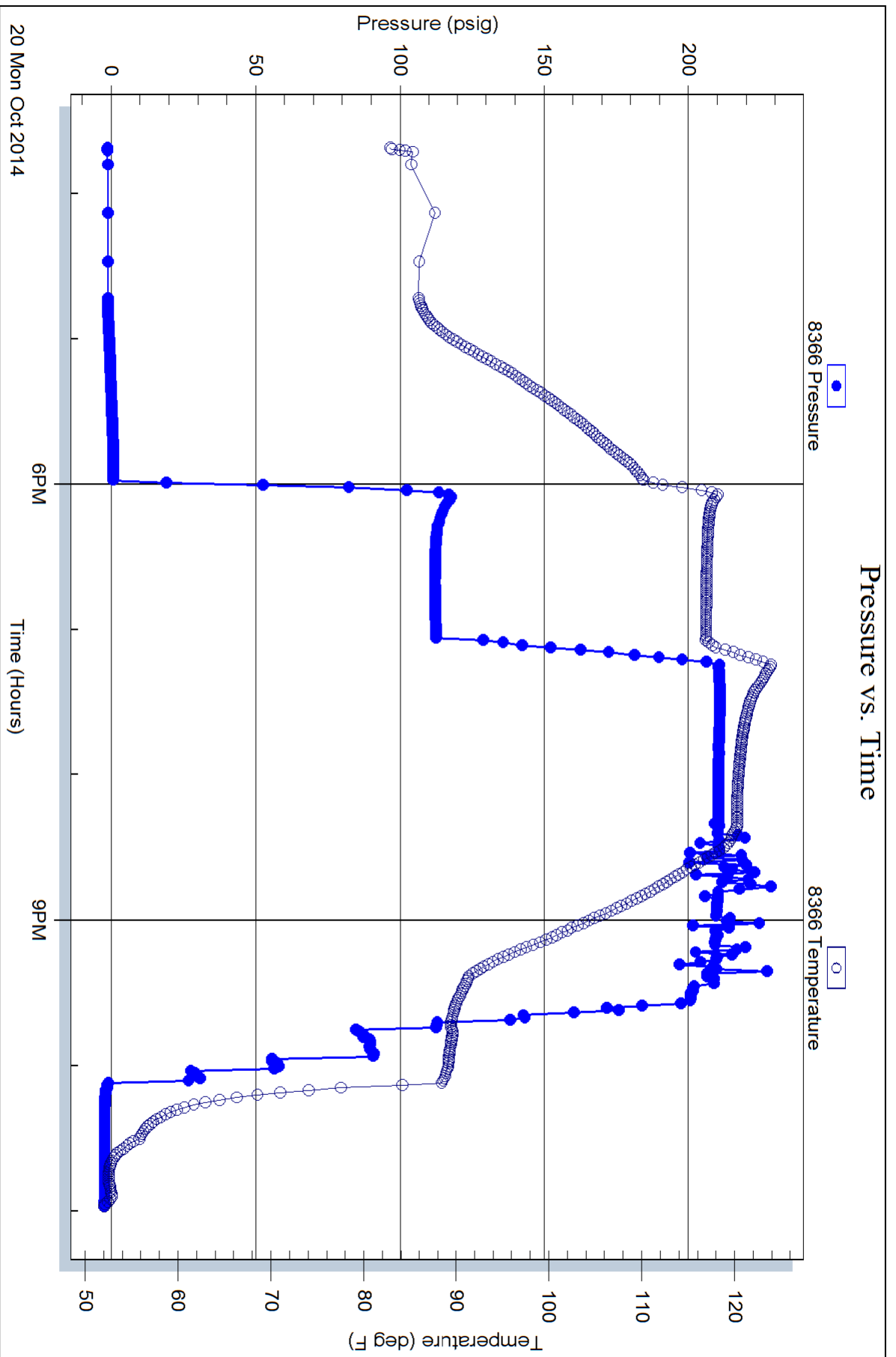
Serial #: 8366

Fluid

Samuel Gary Jr. & Associates

Leebrick Farms #1-27

DST Test Number: 2





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

27/4s/34w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Leebrick Farms #1-27

ATTN: Clayton Camozzi

Job Ticket: 60096

DST#: 3

Test Start: 2014.10.21 @ 07:56:00

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:40:30

Time Test Ended: 16:07:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4184.00 ft (KB) To 4216.00 ft (KB) (TVD)

Reference Elevations: 3167.00 ft (KB)

Total Depth: 4216.00 ft (KB) (TVD)

3162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 519.05 psig @ 4185.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.21

End Date:

2014.10.21

Last Calib.:

2014.10.21

Start Time: 07:56:05

End Time:

16:06:59

Time On Btm:

2014.10.21 @ 10:39:30

Time Off Btm:

2014.10.21 @ 13:01:45

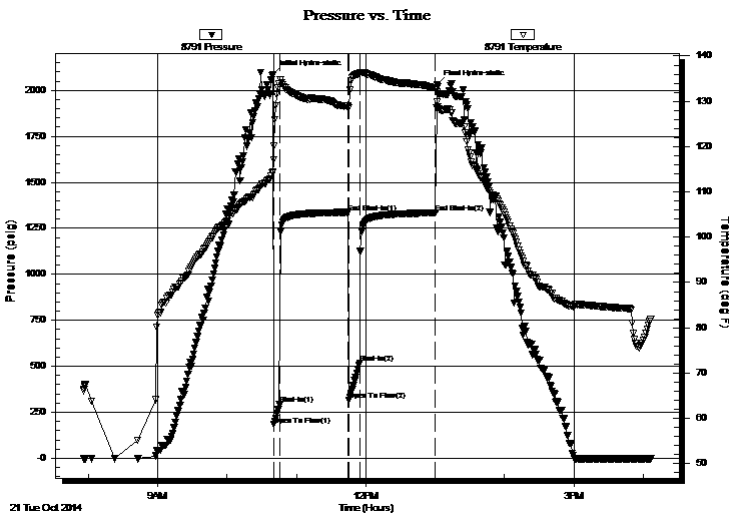
TEST COMMENT: 5 - IF: Blow built to BOB (11") at 1 1/2 min.

60 - IS: Blow back built to 1 1/4"

10 - FF: Blow built to BOB at 2 min.

60 - FS: Blow back built to 1/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2083.02	114.48	Initial Hydro-static
1	182.45	120.06	Open To Flow (1)
6	292.13	133.94	Shut-In(1)
65	1336.54	128.90	End Shut-In(1)
66	316.46	128.63	Open To Flow (2)
76	519.05	136.09	Shut-In(2)
141	1334.12	132.89	End Shut-In(2)
143	2029.26	129.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
635.00	SMCW 96%w, 4%m	7.21
380.00	MCW 61%w, 39%m	5.33
25.00	WCM 80%m, 20%w	0.35

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

27/4s/34w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Leebrick Farms #1-27

Job Ticket: 60096

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2014.10.21 @ 07:56:00

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:40:30

Time Test Ended: 16:07:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4184.00 ft (KB) To 4216.00 ft (KB) (TVD)

Reference Elevations: 3167.00 ft (KB)

Total Depth: 4216.00 ft (KB) (TVD)

3162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8366

Fluid

Press@RunDepth: psig @ 4149.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.21

End Date:

2014.10.21

Last Calib.:

2014.10.21

Start Time: 07:56:05

End Time:

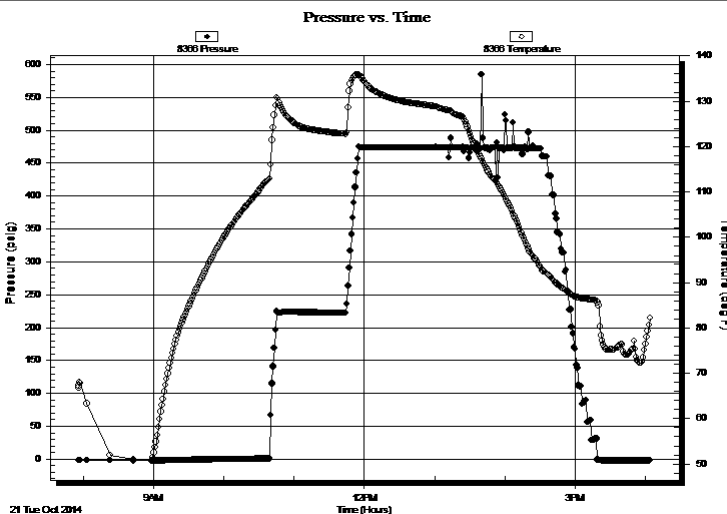
16:04:14

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 - IF: Blow built to BOB (11") at 1 1/2 min.
60 - IS: Blow back built to 1 1/4"
10 - FF: Blow built to BOB at 2 min.
60 - FS: Blow back built to 1/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
635.00	SMCW 96%w, 4%m	7.21
380.00	MCW 61%w, 39%m	5.33
25.00	WCM 80%m, 20%w	0.35

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

27/4s/34w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Leebrick Farms #1-27

Job Ticket: 60096

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2014.10.21 @ 07:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

44000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
635.00	SMCW 96%w , 4%m	7.213
380.00	MCW 61%w , 39%m	5.330
25.00	WCM 80%m, 20%w	0.351

Total Length: 1040.00 ft Total Volume: 12.894 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

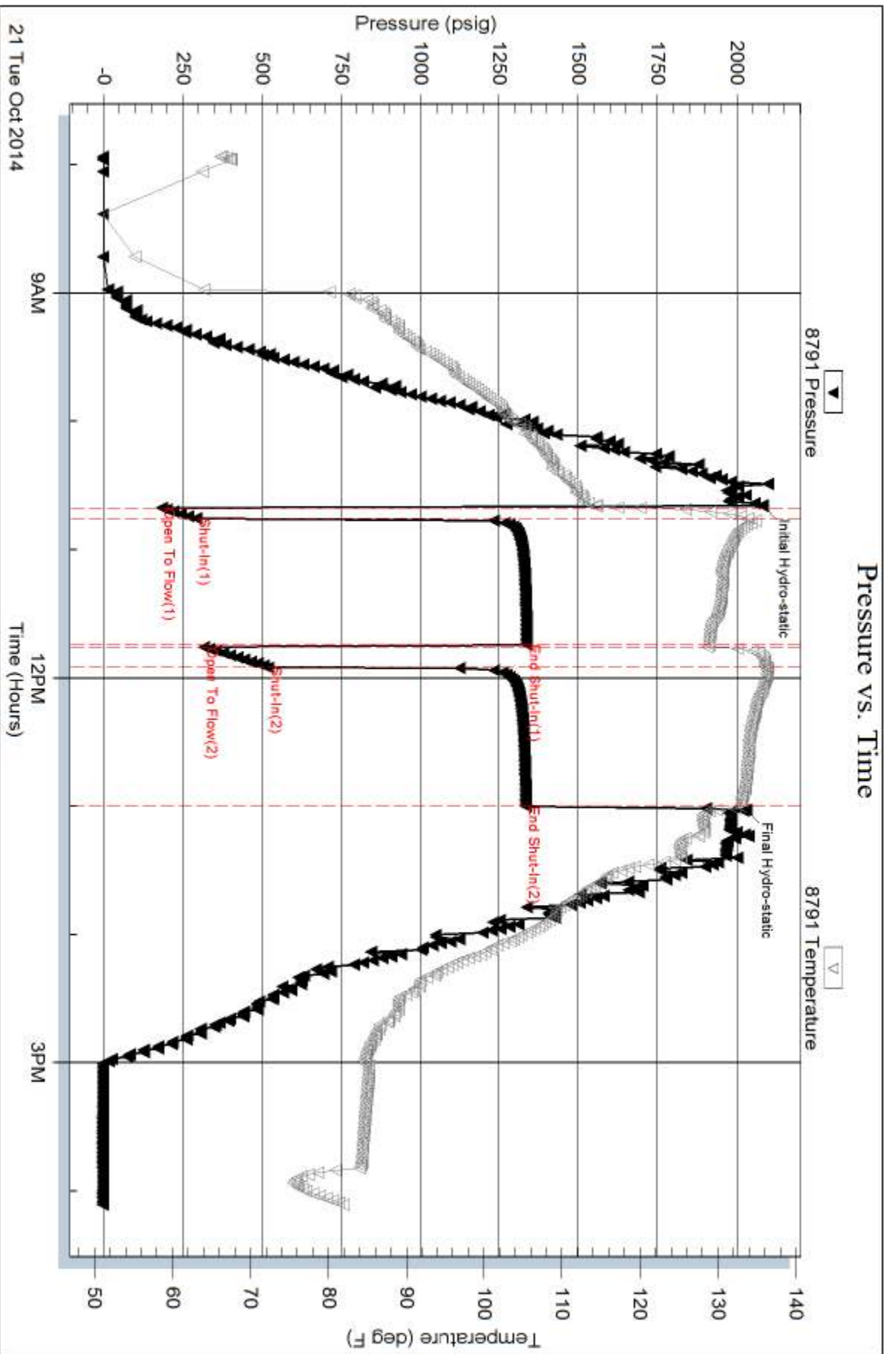
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .148 ohms @ 81.5 deg F Chlorides = 44,000 ppm

Sampler = 155 PSI, 2500 mL Water 99%w , 1%m, RW = .151 ohms @ 81.4 deg F Chlorides = 44,000 ppm



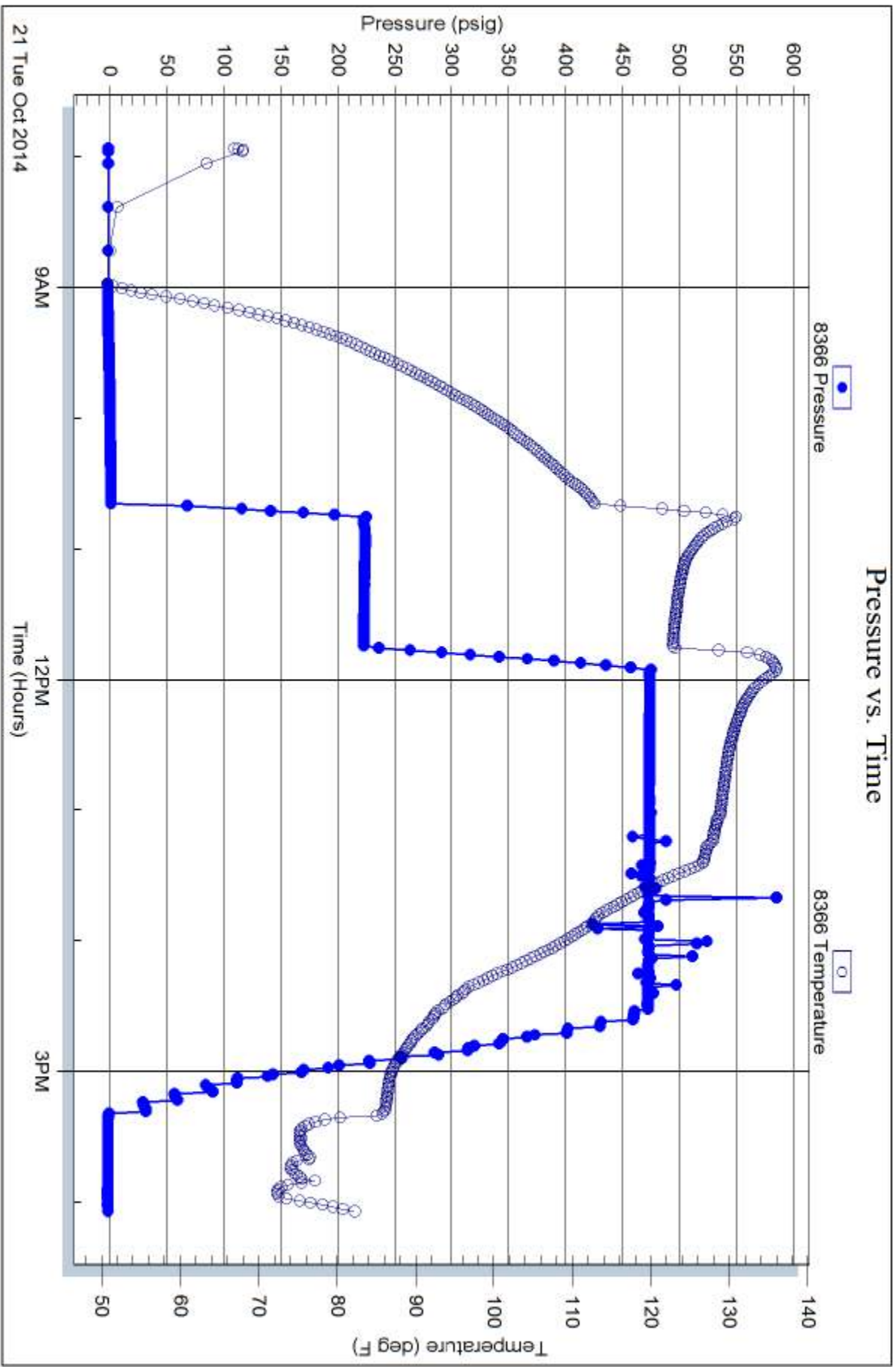
Serial #: 8366

Fluid

Samuel Gary J. & Associates

Leebrock Farms #1-27

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 60096

Printed: 2014, 10, 21 @ 17:04:04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

27/4s/34w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Leebrick Farms #1-27

Job Ticket: 60097

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2014.10.23 @ 23:58:00

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:16:00

Time Test Ended: 07:54:30

Test Type: Conventional Straddle (Reset)

Tester: James Winder

Unit No: 57

Interval: 4270.00 ft (KB) To 4286.00 ft (KB) (TVD)

Reference Elevations: 3167.00 ft (KB)

Total Depth: 4734.00 ft (KB) (TVD)

3162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 15.57 psig @ 4271.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.23

End Date:

2014.10.24

Last Calib.:

2014.10.24

Start Time: 23:58:05

End Time:

07:54:29

Time On Btm:

2014.10.24 @ 02:15:30

Time Off Btm:

2014.10.24 @ 05:19:30

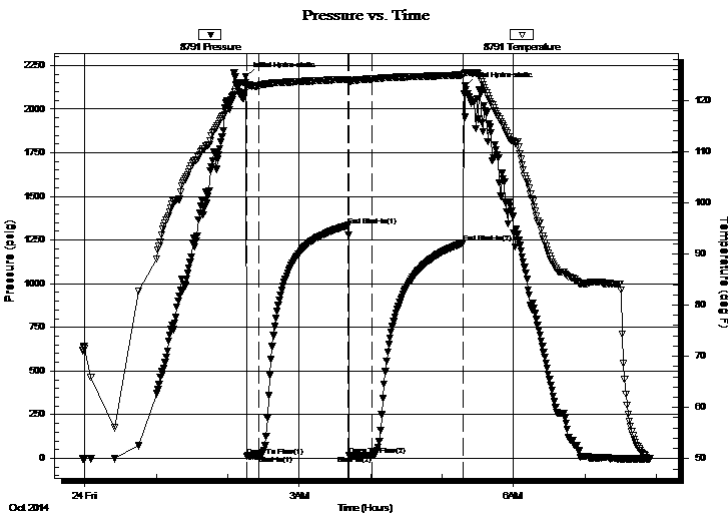
TEST COMMENT: 10 - IF: Blow built to 1/4"

75 - ISI: No blow back

20 - FF: No blow

75 - FSI: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2186.51	123.42	Initial Hydro-static
1	12.78	122.71	Open To Flow (1)
11	15.40	122.80	Shut-In(1)
86	1333.70	124.08	End Shut-In(1)
86	16.12	123.64	Open To Flow (2)
106	15.57	124.15	Shut-In(2)
182	1235.13	124.93	End Shut-In(2)
184	2131.55	125.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100%	0.01

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

27/4s/34w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Leebrick Farms #1-27

ATTN: Clayton Camozzi

Job Ticket: 60097

DST#: 4

Test Start: 2014.10.23 @ 23:58:00

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:16:00

Time Test Ended: 07:54:30

Test Type: Conventional Straddle (Reset)

Tester: James Winder

Unit No: 57

Interval: **4270.00 ft (KB) To 4286.00 ft (KB) (TVD)**

Reference Elevations: 3167.00 ft (KB)

Total Depth: 4734.00 ft (KB) (TVD)

3162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8366

Fluid

Press@RunDepth: psig @ 4235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.23

End Date: 2014.10.24

Last Calib.: 2014.10.24

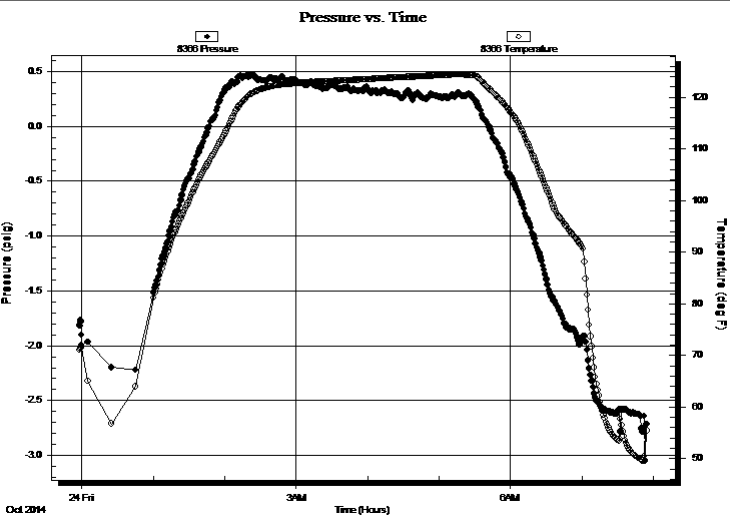
Start Time: 23:58:05

End Time: 07:54:29

Time On Btm:

Time Off Btm:

TEST COMMENT: 10 - IF: Blow built to 1/4"
75 - ISI: No blow back
20 - FF: No blow
75 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100%	0.01

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

27/4s/34w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Leebrick Farms #1-27

Job Ticket: 60097

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2014.10.23 @ 23:58:00

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:16:00

Time Test Ended: 07:54:30

Test Type: Conventional Straddle (Reset)

Tester: James Winder

Unit No: 57

Interval: 4270.00 ft (KB) To 4286.00 ft (KB) (TVD)

Reference Elevations: 3167.00 ft (KB)

Total Depth: 4734.00 ft (KB) (TVD)

3162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8960

Below (Straddle)

Press@RunDepth: psig @ 4287.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.23

End Date: 2014.10.24

Last Calib.: 2014.10.24

Start Time: 23:58:05

End Time: 07:54:14

Time On Btm:

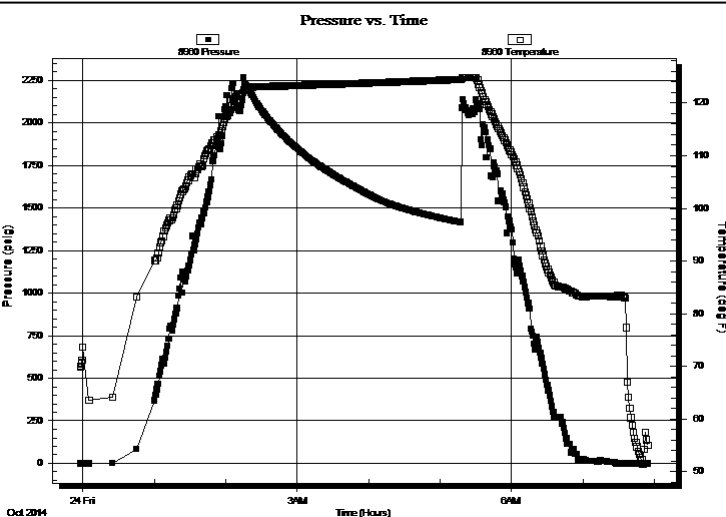
Time Off Btm:

TEST COMMENT: 10 - IF: Blow built to 1/4"

75 - ISI: No blow back

20 - FF: No blow

75 - FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100%	0.01

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

27/4s/34w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Leebrick Farms #1-27

Job Ticket: 60097

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2014.10.23 @ 23:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud 100%	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

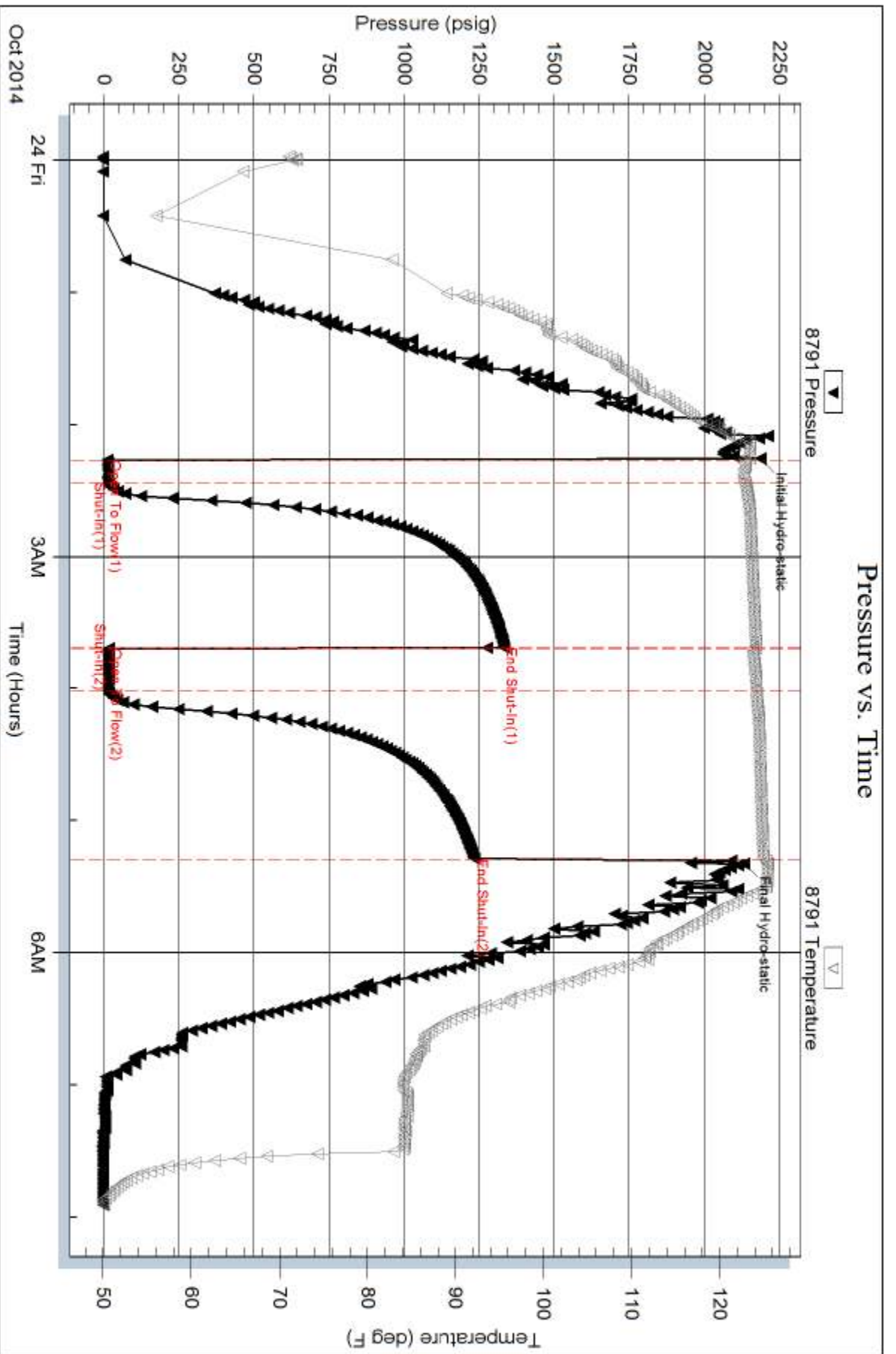
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler = 90 PSI, 1000 mL mud 100% m



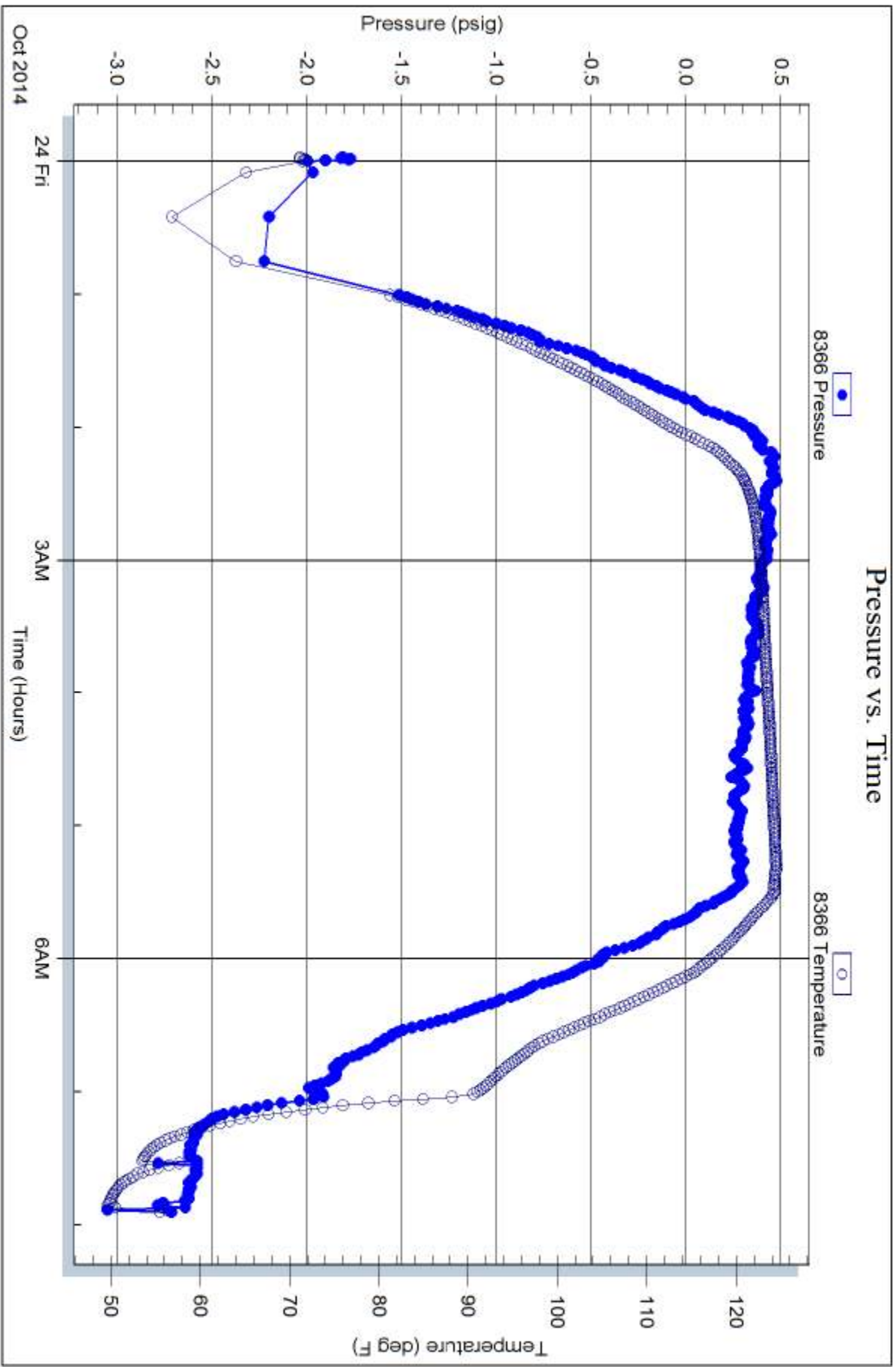
Serial #: 8366

Fluid

Samuel Gary Jr. & Associates

Leebrick Farms #1-27

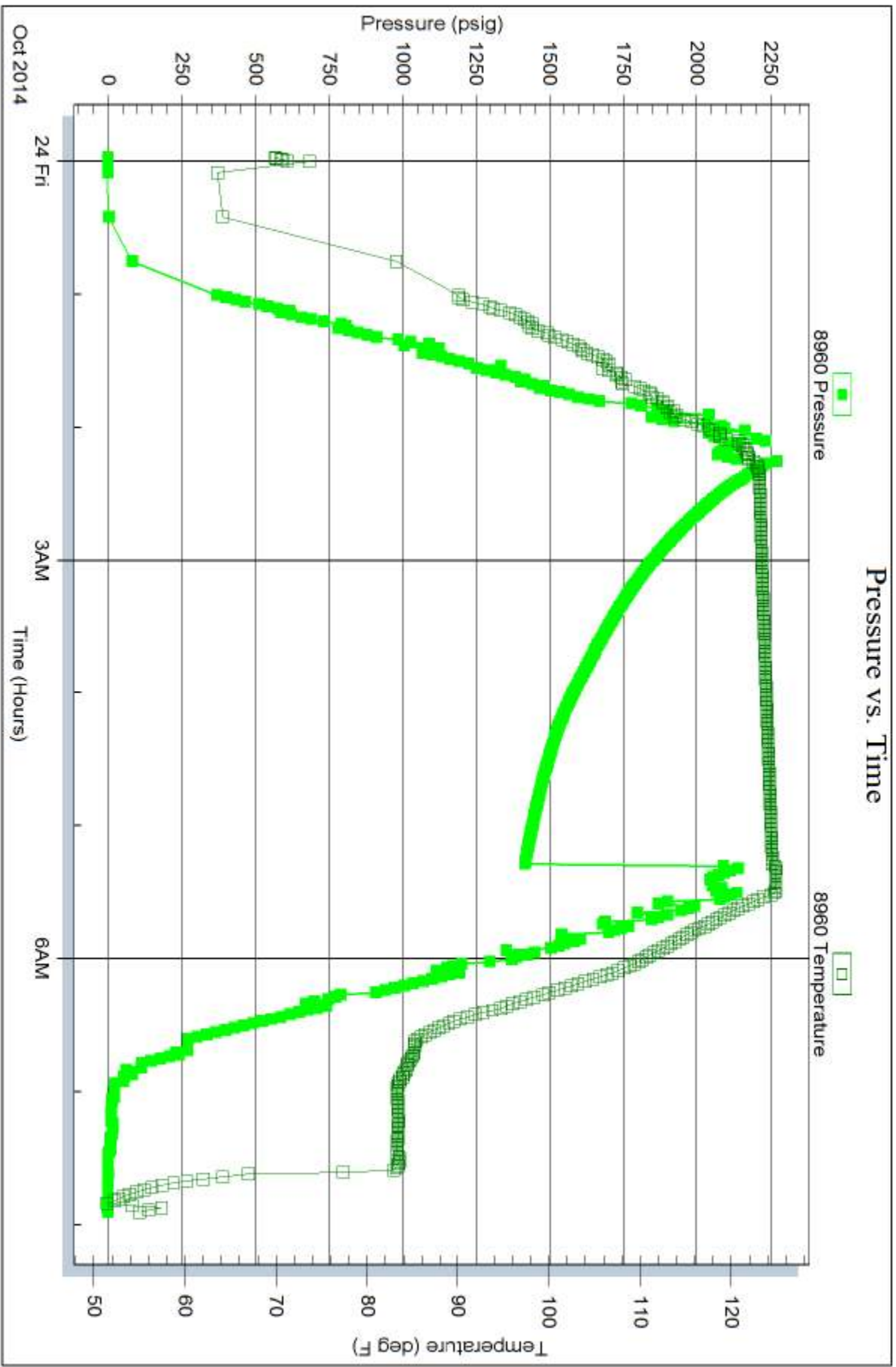
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 60097

Printed: 2014, 10, 24 @ 08:36:43





Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: LEEBRICK FARMS 1-27
Well Id:
Location: SEC. 27-4S-34W RAWLINS COUNTY, KANSAS
License Number: 15-153-21071-0000 Region: WILDCAT
Spud Date: OCT.16, 2014 Drilling Completed: OCT. 23, 2014
Surface Coordinates: 2235 FNL/375 FEL

Bottom Hole
Coordinates:
Ground Elevation (ft): 3162' K.B. Elevation (ft): 3167'
Logged Interval (ft): 3800' To: 4735' Total Depth (ft): 4735'
Formation: Lansing, Kansas City
Type of Drilling Fluid: Natural Chemical

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Samuel Gary Jr. & Assoc.
Address: 1515 Wynkoop, Ste. # 700
Denver, Colo. 80202
Geo: Clayton Camozzi

GEOLOGIST

Name: Schuyler Hedrick/Blake Ward
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: 580-754-0231



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

27/4s/34w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Leebrick Farms #1-27

Job Ticket: 60094 DST#: 1

ATTN: Clayton Camozzi

Test Start: 2014.10.19 @ 19:31:00

GENERAL INFORMATION:

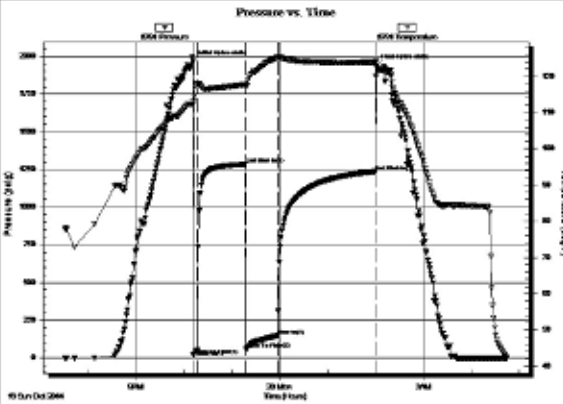
Formation: **LKC "A - C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:11:45
 Time Test Ended: 04:44:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: James Winder
 Unit No: 57
 Interval: 4060.00 ft (KB) To 4114.00 ft (KB) (TVD)
 Reference Elevations: 3167.00 ft (KB)
 Total Depth: 4114.00 ft (KB) (TVD)
 3162.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 147.75 psig @ 4061.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2014.10.19 End Date: 2014.10.20
 Last Callb.: 2014.10.20
 Start Time: 19:31:05 End Time: 04:44:30
 Time On Btm: 2014.10.19 @ 22:11:30
 Time Off Btm: 2014.10.20 @ 02:01:00

TEST COMMENT: 5 - F: Blow built to 3"
 60 - IS: No blow back
 40 - FF: Blow built to BOB (11") at 36 min.
 120 - FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1966.65	112.91	Initial Hydro-static
1	17.80	112.31	Open To Flow (1)
6	50.44	117.72	Shut-in(1)
66	1283.26	117.76	End Shut-in(1)
67	55.04	117.33	Open To Flow (2)
106	147.75	125.25	Shut-in(2)
229	1236.23	123.91	End Shut-in(2)
230	1939.54	122.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
128.00	SCMW 93%w, 7% m	0.63
125.00	MW w/trace oil 50% m, 50% w	1.23
35.00	SO/WCM 83% m, 15% w, 2% o	0.49

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

27/4s/34w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Leebrick Farms #1-27

Job Ticket: 60095 **DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2014.10.20 @ 15:41:00

GENERAL INFORMATION:

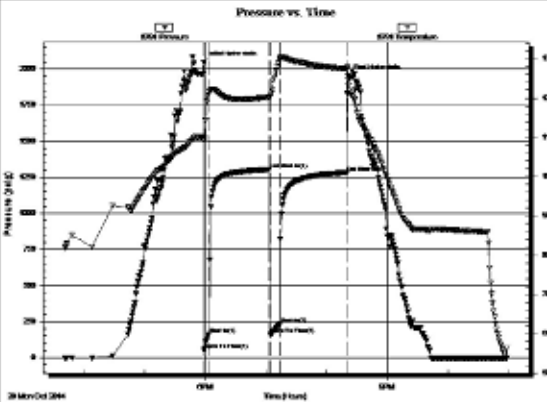
Formation: **LKC "F - G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:58:45
 Time Test Ended: 22:58:15
 Interval: **4130.00 ft (KB) To 4184.00 ft (KB) (TVD)**
 Total Depth: **4184.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 3167.00 ft (KB)
 3162.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 232.39 psig @ 4131.00 ft (KB)
 Start Date: 2014.10.20 End Date: 2014.10.20
 Start Time: 15:41:05 End Time: 22:58:14
 Capacity: 8000.00 psig
 Last Callb.: 2014.10.20
 Time On Btm: 2014.10.20 @ 17:58:30
 Time Off Btm: 2014.10.20 @ 20:21:30

TEST COMMENT: 5 - IF: Blow built to BOB (11") at 5 min.
 60 - IS: No blow back
 10 - FF: Blow built to BOB at 5 1/4 min.
 60 - FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2044.61	109.92	Initial Hydro-static
1	52.82	109.13	Open To Flow (1)
6	161.63	121.46	Shut-in(1)
65	1302.75	120.20	End Shut-in(1)
66	160.38	120.41	Open To Flow (2)
76	232.39	129.97	Shut-in(2)
142	1282.40	127.50	End Shut-in(2)
143	1952.64	123.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
191.00	MOW w /trace oil 72%w , 28%m	0.96
254.00	WCM w /trace oil 65%w , 35%w	3.56
20.00	Mud w /trace oil 100%w	0.28

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

27/4s/34w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Leebrick Farms #1-27

Job Ticket: 60096 DST#: 3

ATTN: Clayton Camozzi

Test Start: 2014.10.21 @ 07:56:00

GENERAL INFORMATION:

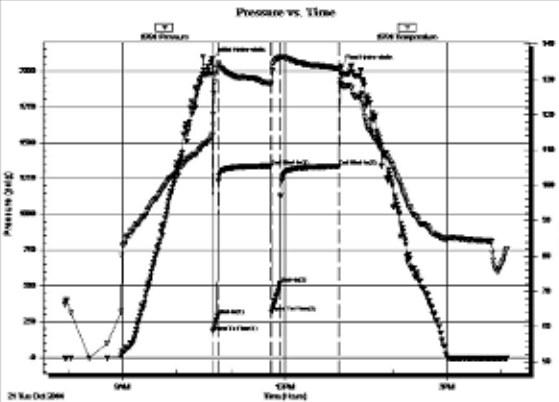
Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:40:30
 Time Test Ended: 16:07:00
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Interval: **4184.00 ft (KB) To 4216.00 ft (KB) (TVD)**
 Total Depth: 4216.00 ft (KB) (TVD)
 Reference Elevations: 3167.00 ft (KB)
 3162.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 519.05 psig @ 4185.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2014.10.21 End Date: 2014.10.21
 Last Callb.: 2014.10.21
 Start Time: 07:56:05 End Time: 16:06:59
 Time On Btm: 2014.10.21 @ 10:39:30
 Time Off Btm: 2014.10.21 @ 13:01:45

TEST COMMENT: 5 - F: Blow built to BOB (11") at 1 1/2 min.
 60 - IS: Blow back built to 1 1/4"
 10 - FF: Blow built to BOB at 2 min.
 60 - FS: Blow back built to 1/4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2083.02	114.48	Initial Hydro-static
1	182.45	120.06	Open To Flow (1)
6	292.13	133.94	Shut-in(1)
65	1336.54	128.90	End Shut-in(1)
66	316.46	128.63	Open To Flow (2)
76	519.05	136.09	Shut-in(2)
141	1334.12	132.89	End Shut-in(2)
143	2029.26	129.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
635.00	SMCW 96%w, 4%m	7.21
380.00	MCW 61%w, 39%m	5.33
25.00	WCM 80%m, 20%w	0.35

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 60096

Printed: 2014.10.21 @ 19:48:48



**TRIBOLITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

27/4s/34w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Leebrick Farms #1-27

Job Ticket: 60097 **DST#: 4**

ATTN: Clayton Camozzi

Test Start: 2014.10.23 @ 23:58:00

GENERAL INFORMATION:

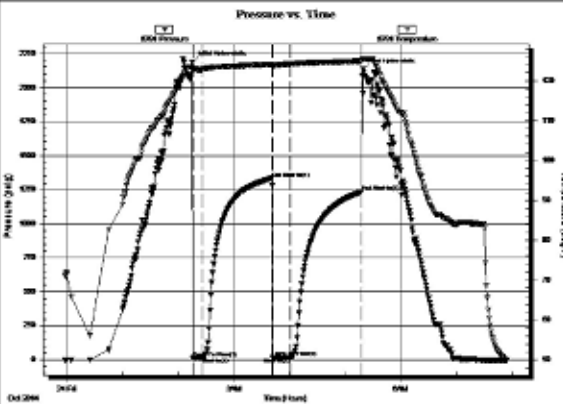
Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 02:16:00
 Tester: James Winder
 Time Test Ended: 07:54:30
 Unit No: 57
 Interval: 4270.00 ft (KB) To 4286.00 ft (KB) (TVD)
 Reference Elevations: 3167.00 ft (KB)
 Total Depth: 4734.00 ft (KB) (TVD)
 3162.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 15.57 psig @ 4271.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2014.10.23 End Date: 2014.10.24
 Last Callb.: 2014.10.24
 Start Time: 23:58:05 End Time: 07:54:29
 Time On Btm: 2014.10.24 @ 02:15:30
 Time Off Btm: 2014.10.24 @ 05:19:30

TEST COMMENT: 10 - IF: Blow built to 1/4"
 75 - IS: No blow back
 20 - FF: No blow
 75 - FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2186.51	123.42	Initial Hydro-static
1	12.78	122.71	Open To Flow (1)
11	15.40	122.80	Shut-in(1)
86	1333.70	124.08	End Shut-in(1)
86	16.12	123.64	Open To Flow (2)
106	15.57	124.15	Shut-in(2)
182	1235.13	124.93	End Shut-in(2)
184	2131.55	125.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100%	0.01

* Recovery from multiple tests

Gas Rates

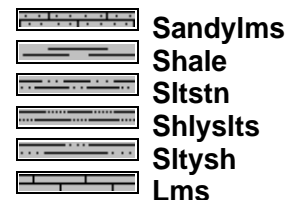
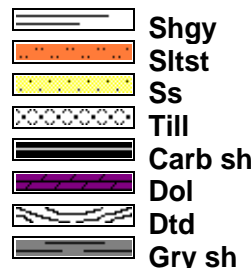
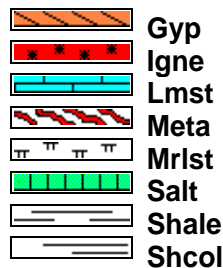
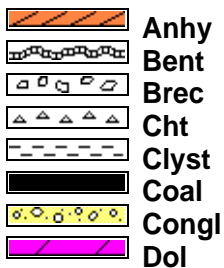
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Tribolite Testing, Inc

Ref. No: 60097

Printed: 2014.10.24 @ 13:08:04

ROCK TYPES



ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr



- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Silty



- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold



- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang



- Angular

OIL SHOWS

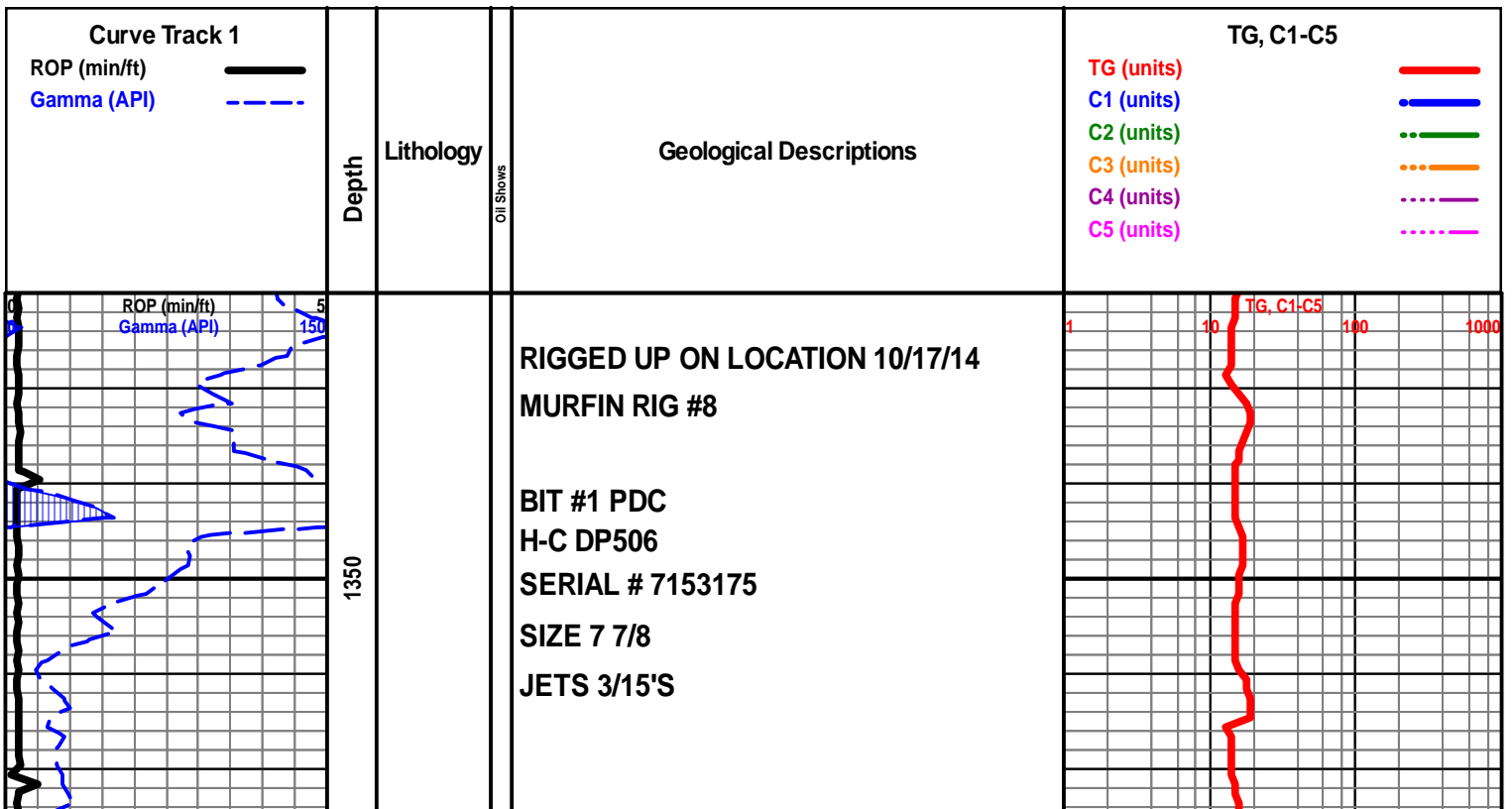
- Even
- Spotted
- Ques
- Dead
- Gas show

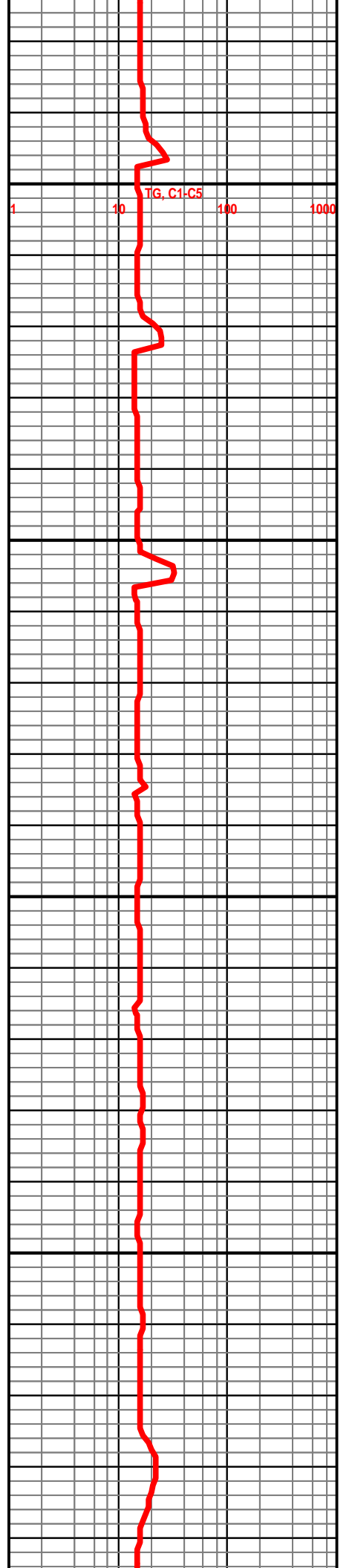
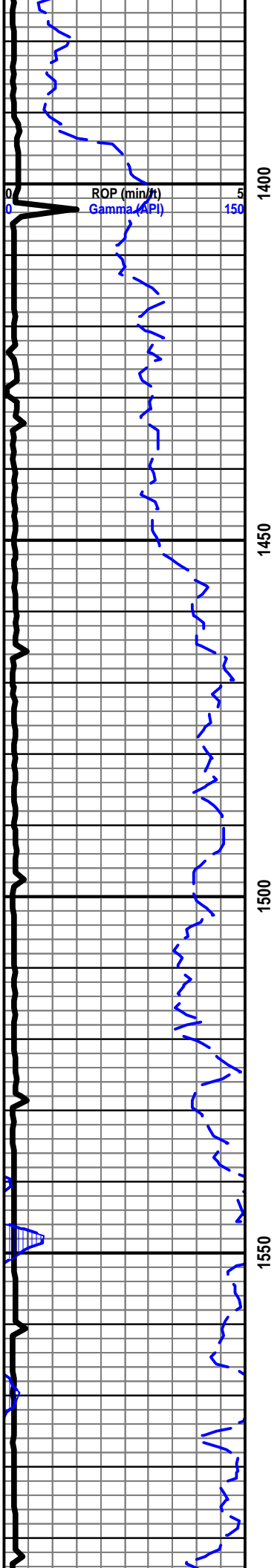
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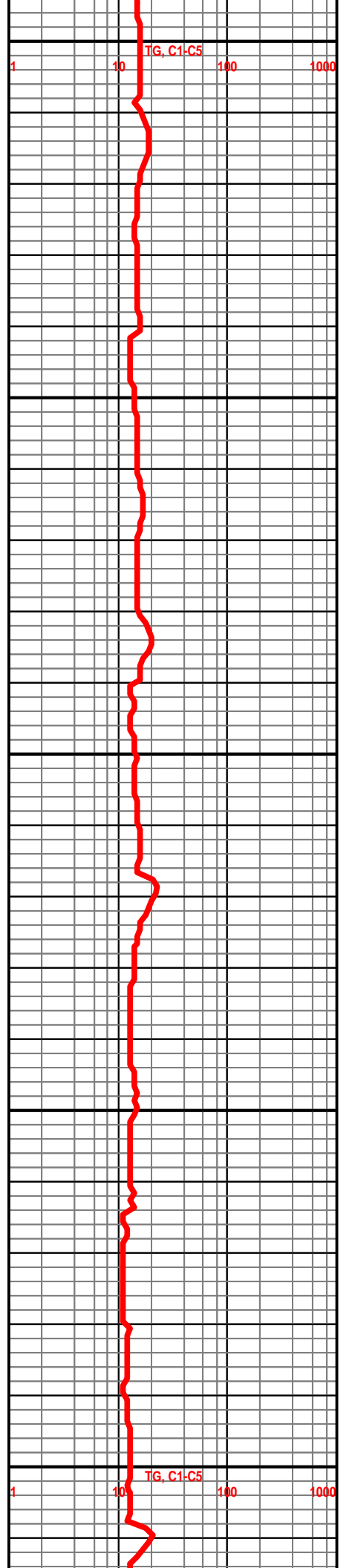
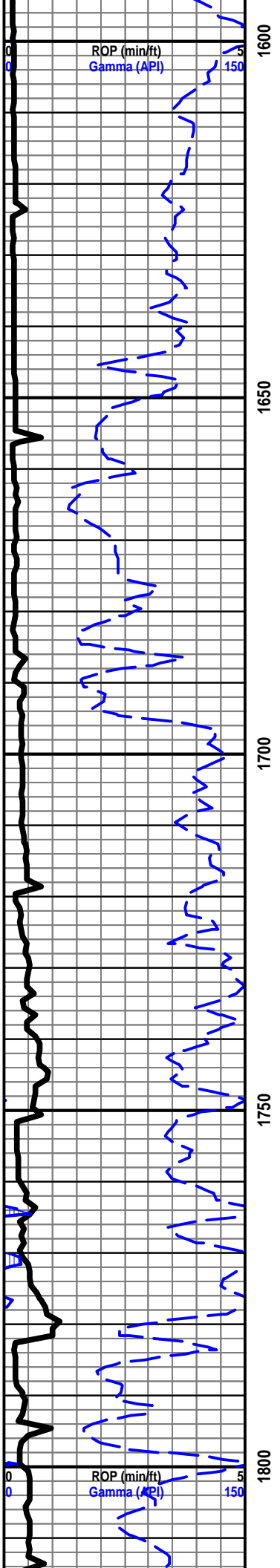
- Core
- Dst
- Dst

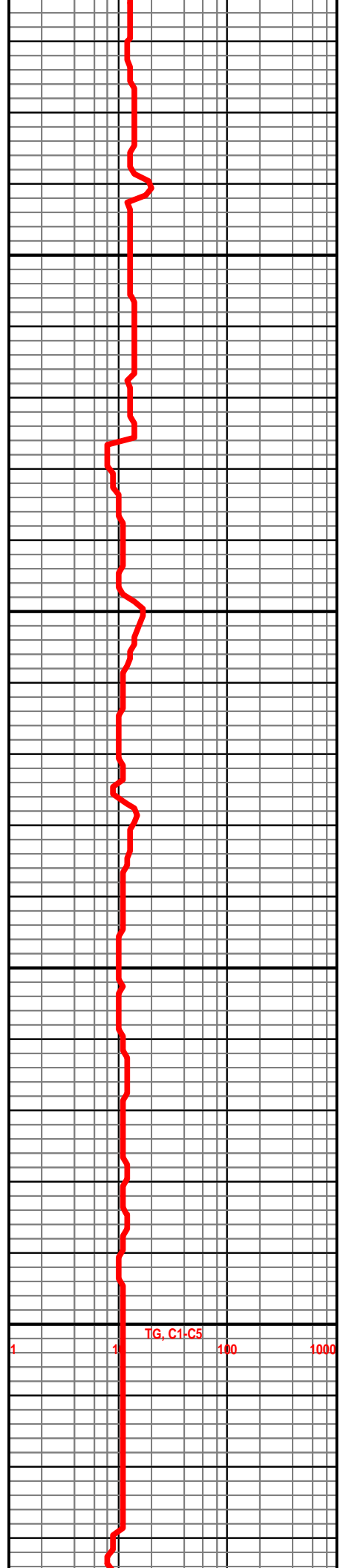
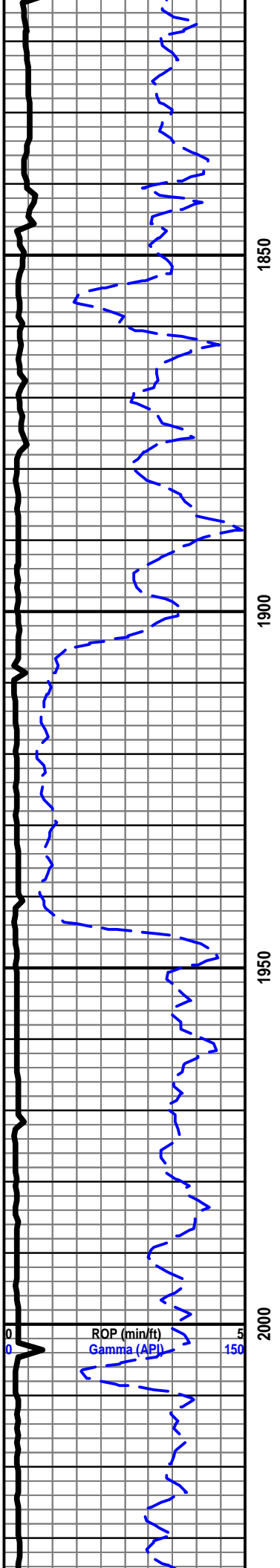
EVENTS

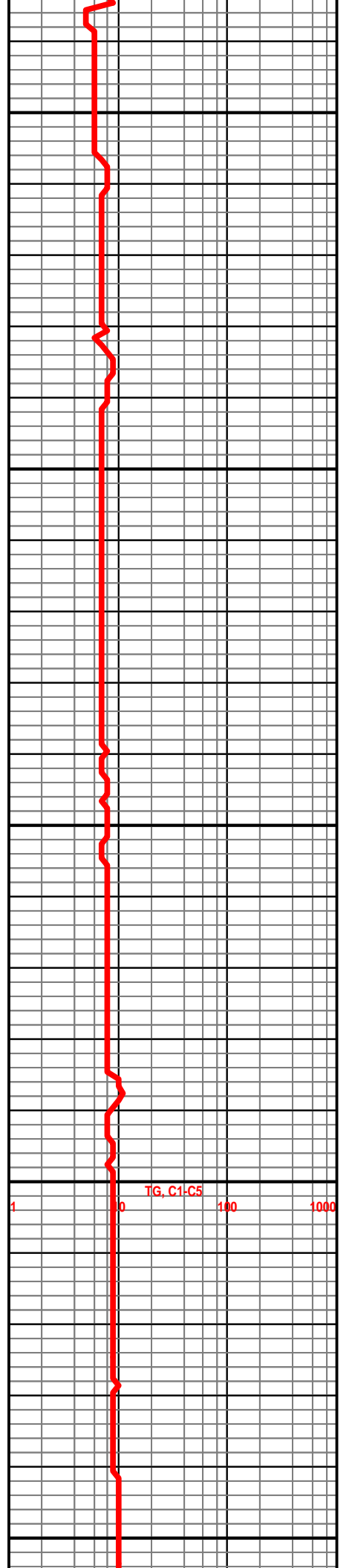
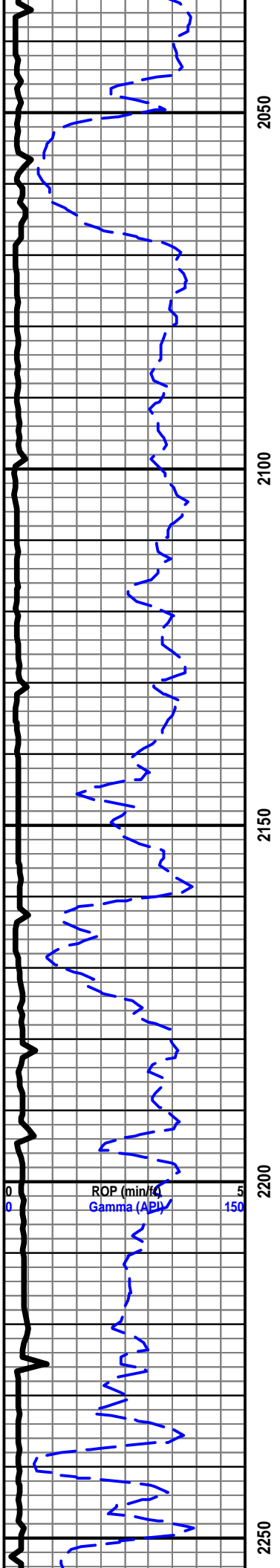
- Rft
- Sidewall

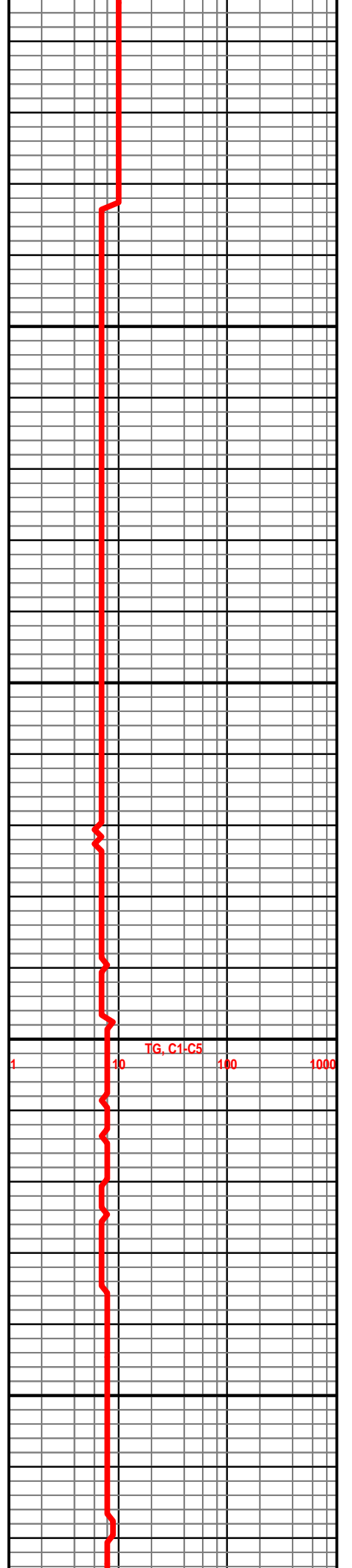
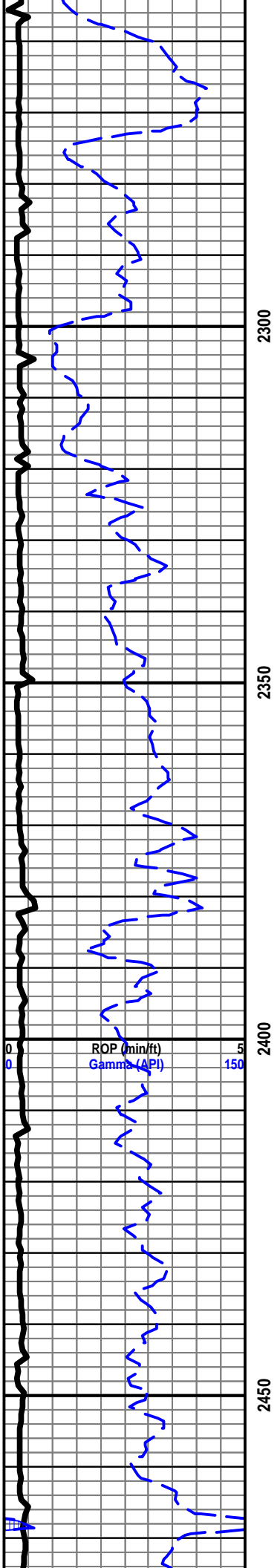


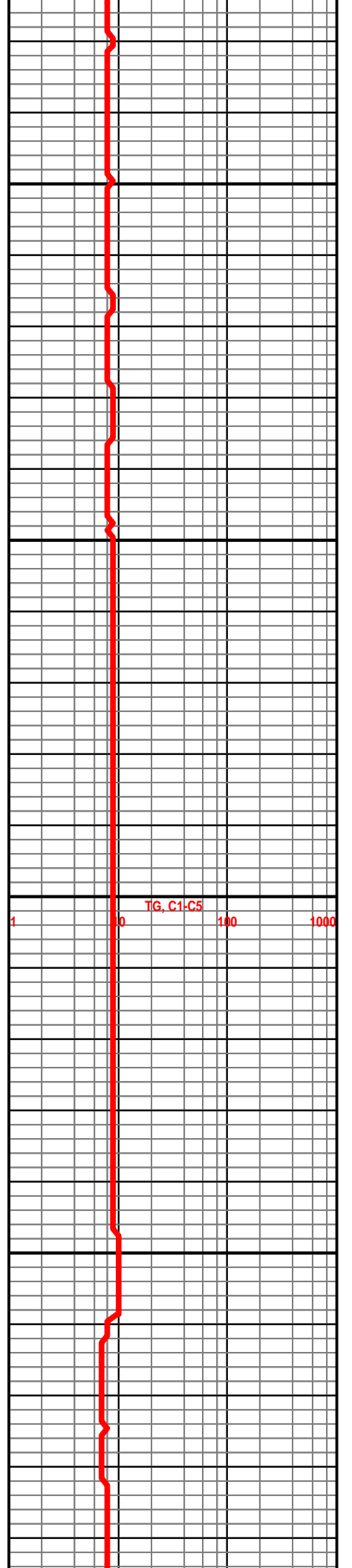
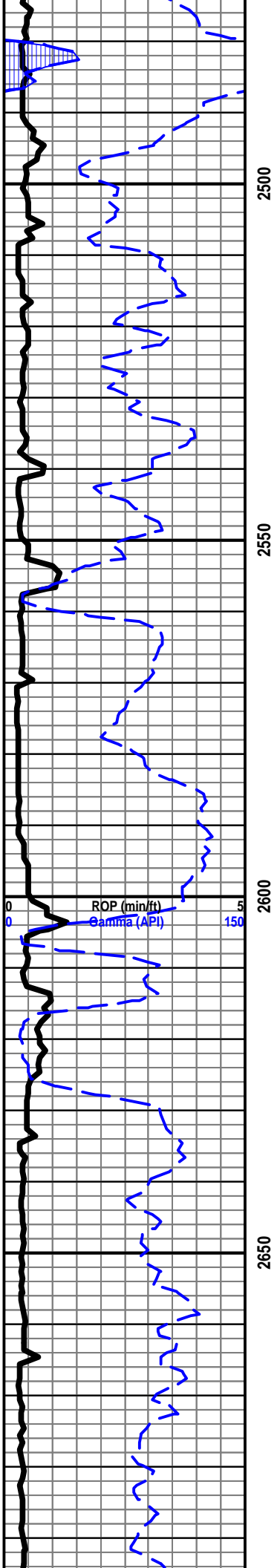


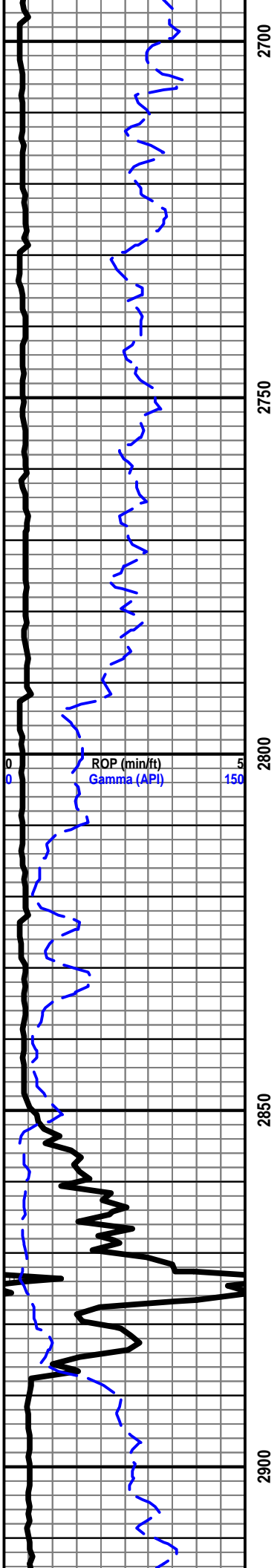




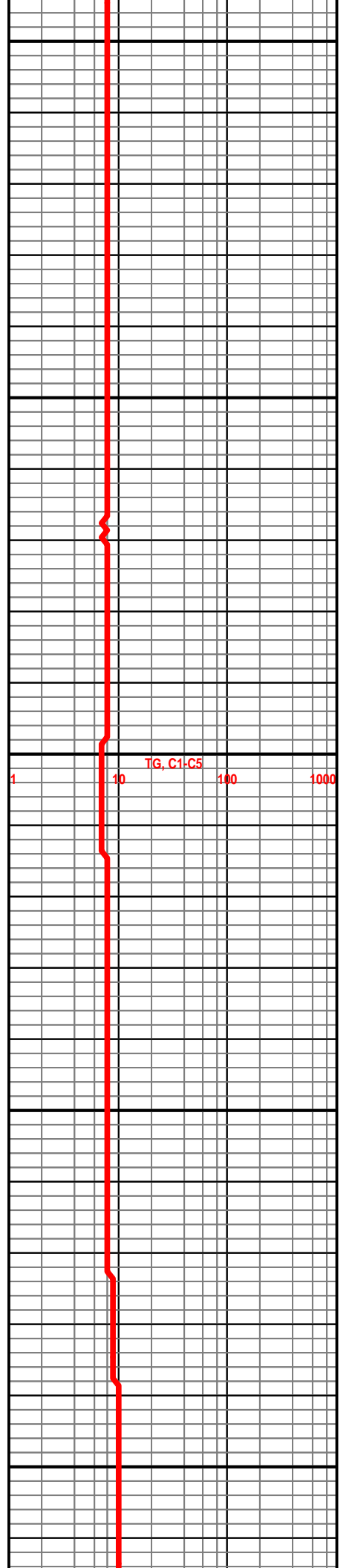


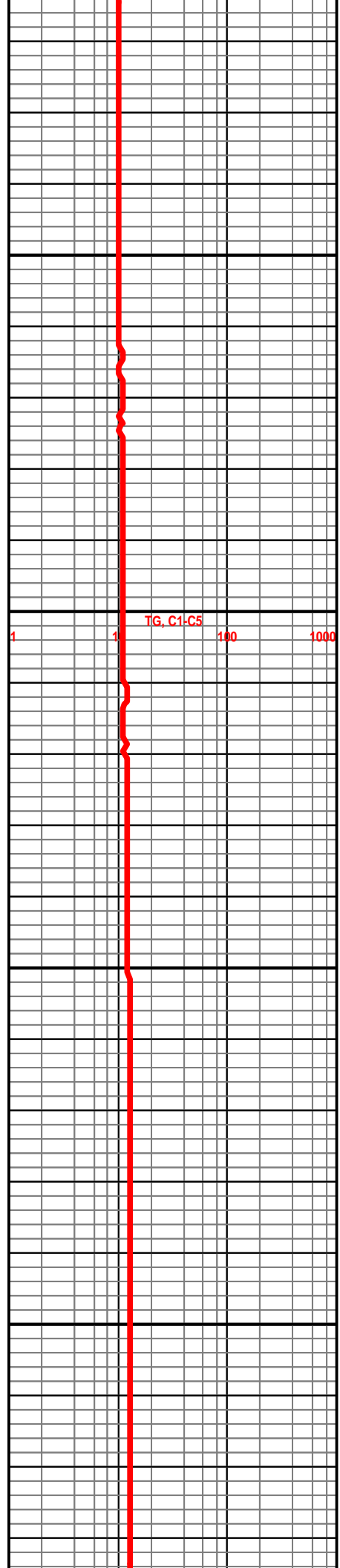
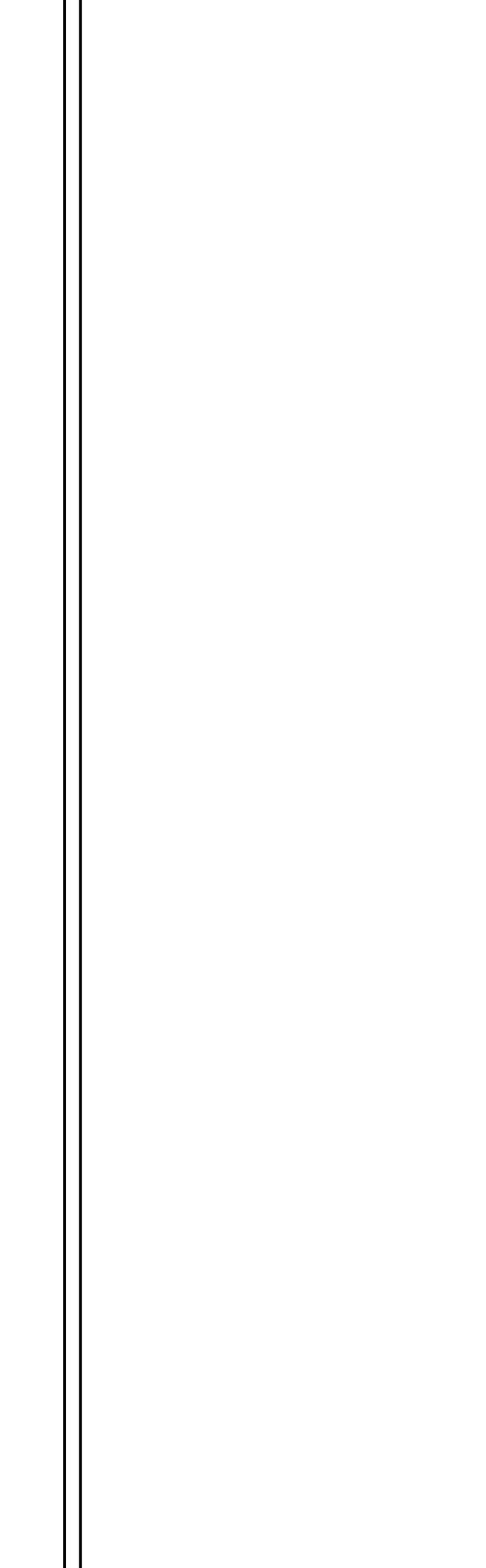
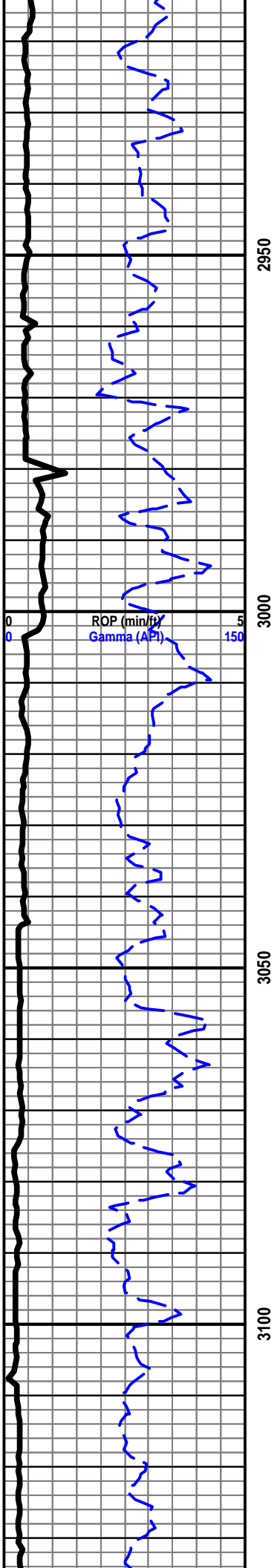


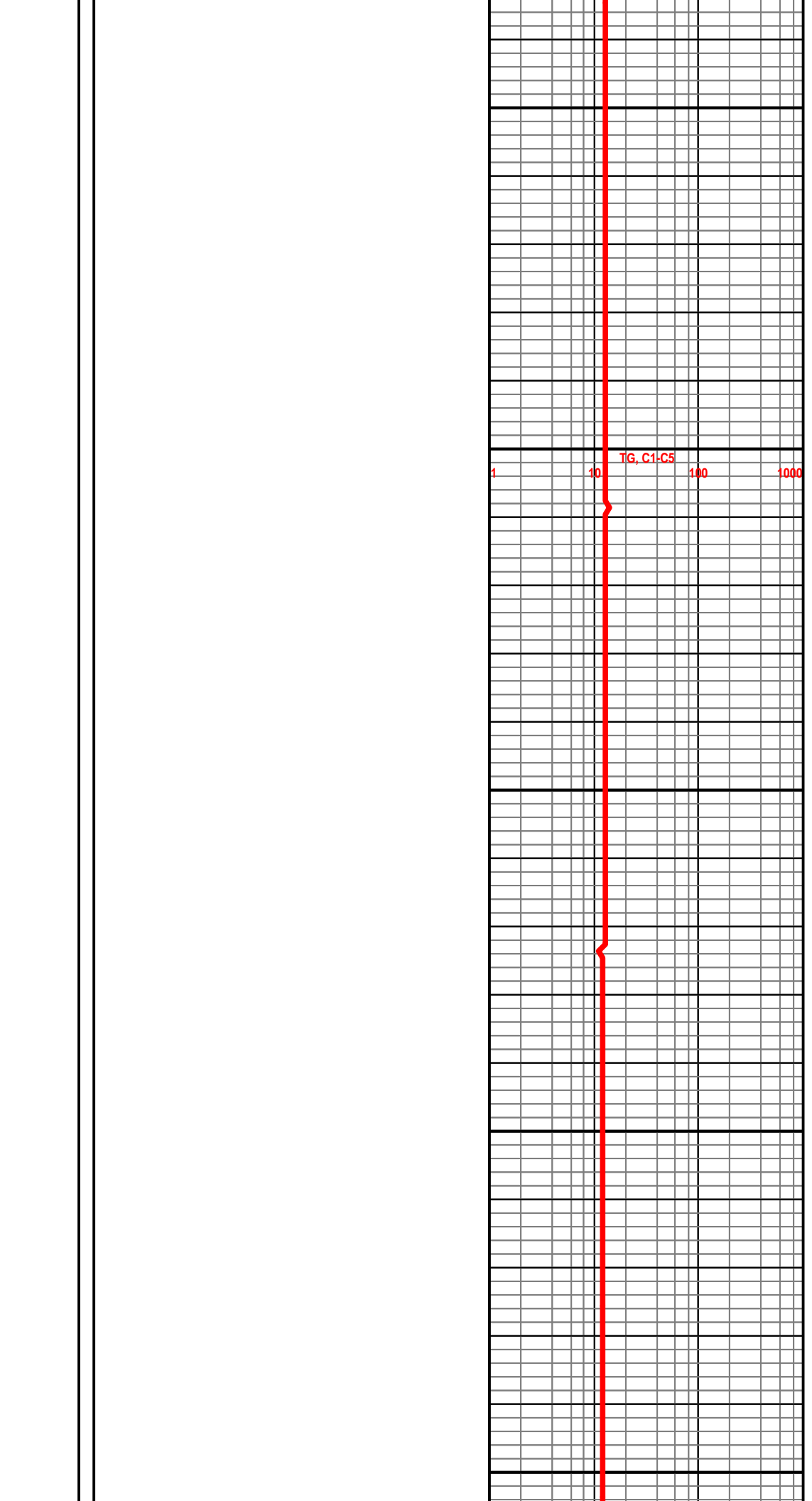
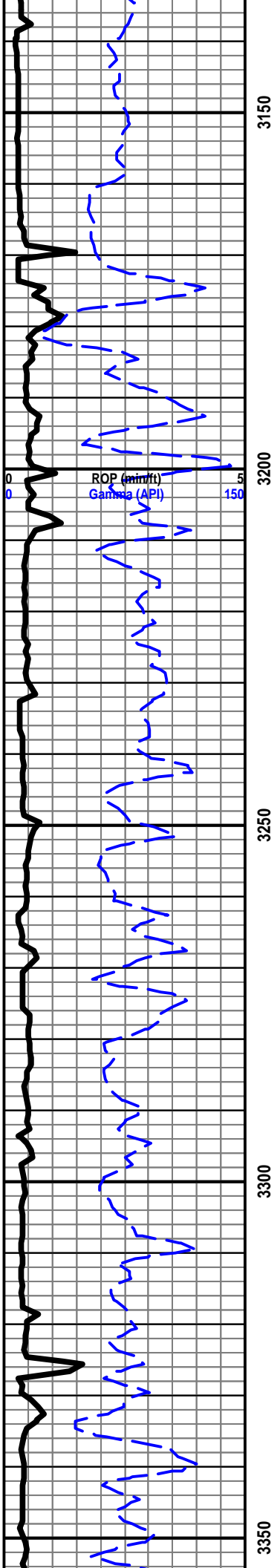


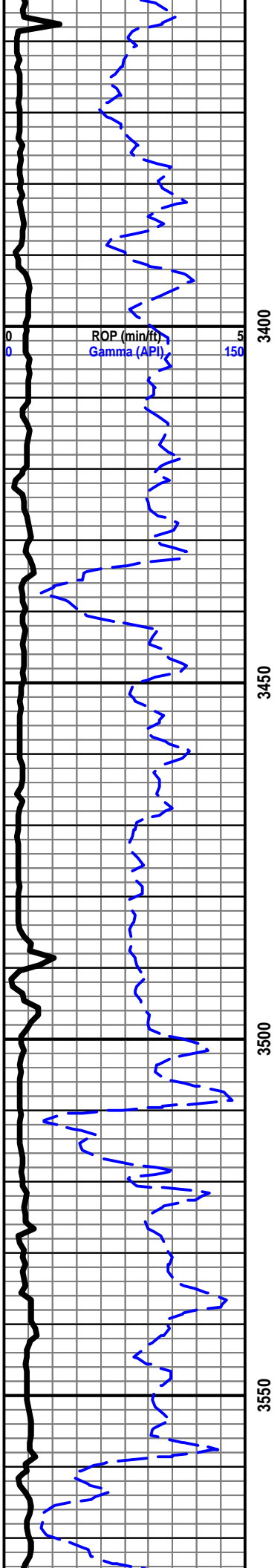


STONE CORRAL 2856' (311')

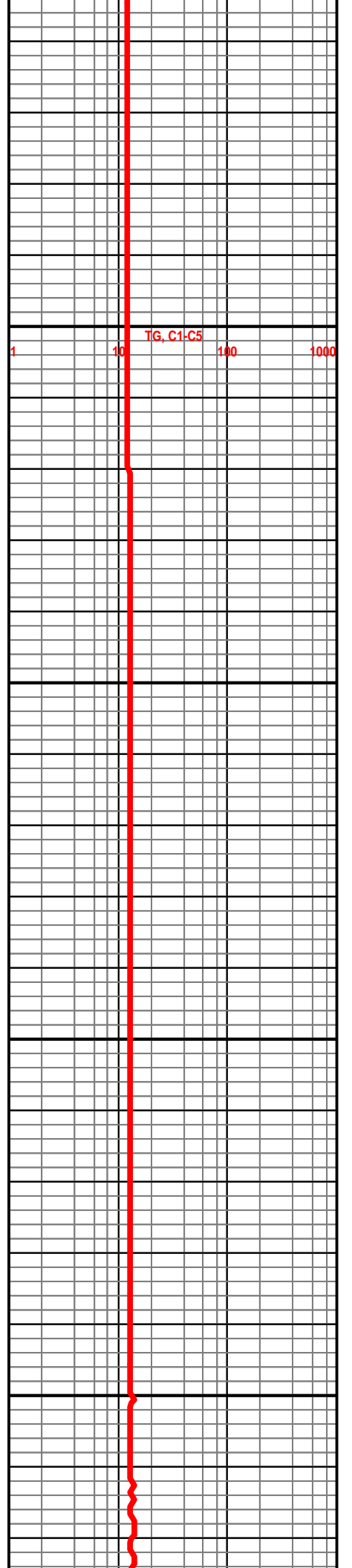


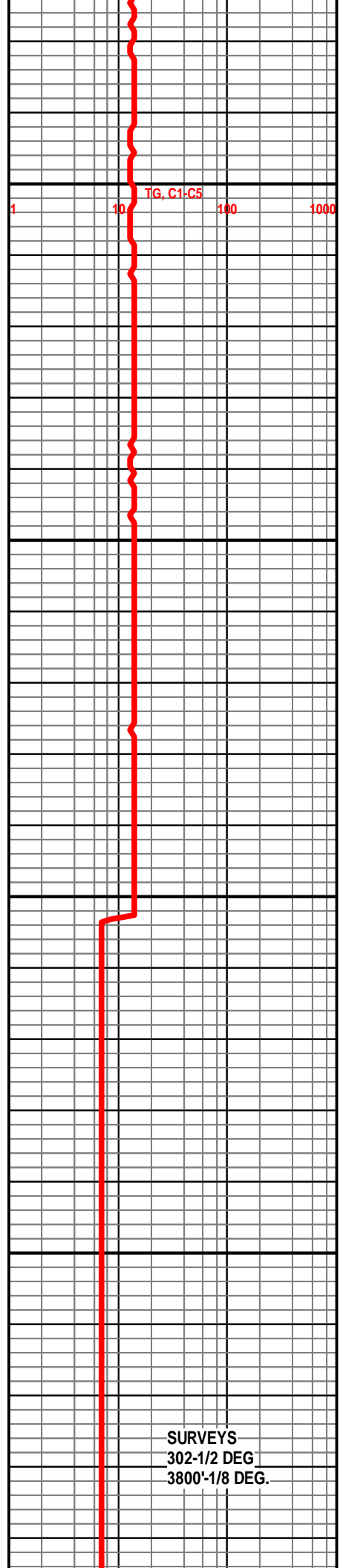
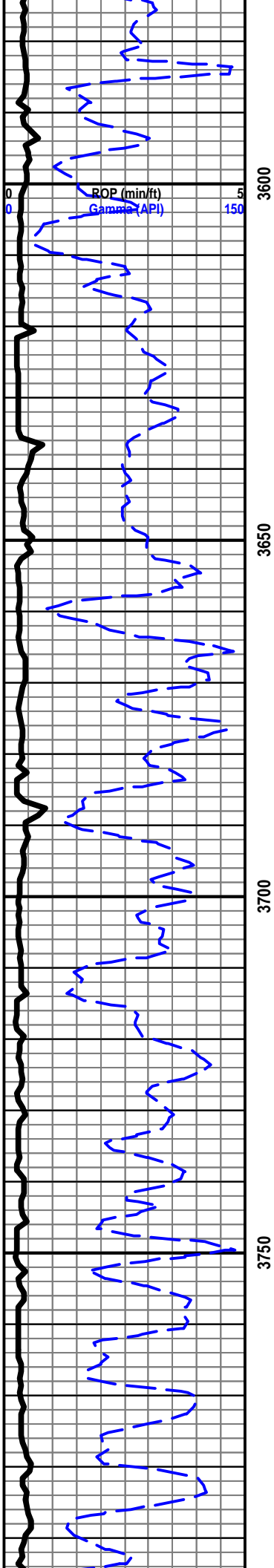






MUD DISPLACEMENT @3487'





BIT #2 TRI-CONE

**H-C GX20C
SERIAL # 5246048**

SIZE 7 7/8

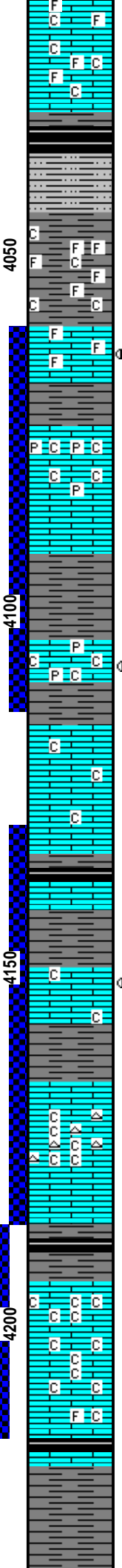
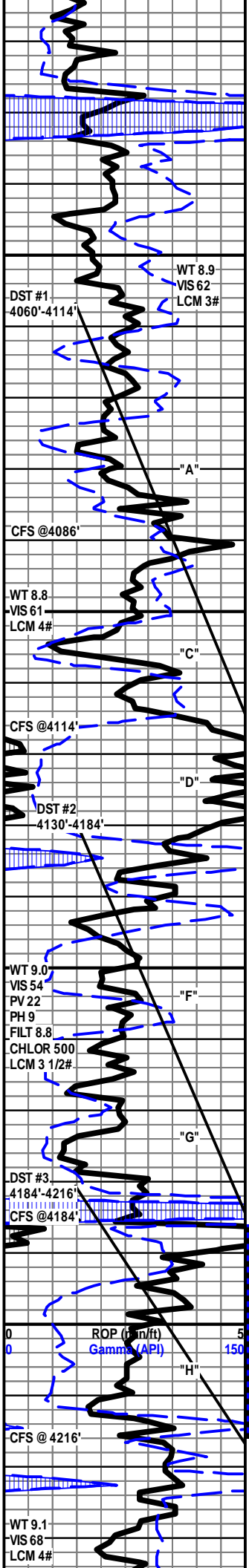
JETS 3-15'S

BIT TRIP @ 3800'

STRAP .45 SHORT TO BOARD

START OF UP MANNER UNIT 10/10/11

**SURVEYS
302-1/2 DEG
3800'-1/8 DEG.**



LS-OFF WHT TO CRM BFF, HD DNS, F-XLN S-CUCRO IP, ABDT GMMY TO SFT WHT CHLK THRU TRAY, TR IMBD FOSS FRGS, DLL YELL MIN FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

HEBNER 4031' (-864')
SH-BLK SFT CARB

SLTY SH-RD TO GY, FRM TO SFT, V-SLTY, IMBD V/V/F-GRNS THRU, TR PYR-CLSTRS

SH-RD DRK RD LT GY IP, SFT TO GMMY, SLTY TXT HVY TR SFT WHT CHLK

4063'-4066' LS-CRM TO OFF WHT (WDRK TN TO BRN OIL STN IN 30-40%), HD DNS TO BRT IP, F-XLN, RE-XLN S-CUCRO IP, IMBD FOSS FRGS, TR IMBD SM CALC-XLS IP, DLL YEL FLO IN 20%, YEL GLD FLO IP, PR TO FR INTER-XLN POR IN 2%, PR MICRO-VUG POR IN 1%, V PR VUG POR IP, FR FLSH CUT, FR TO GD SLO STRM IN 40%, TN LCH ON DSH, NO OIL ODOR

LANSING 4075' (-908')
LS-CRM BFF TO LT TN, HD DNS TO TR BRTT IP, V/F-XLN, HVY TR IMBD DISS PYR, TR SFT TO FRM CHLK, DLL YEL TO YEL MIN FLO THRU, TR V PR TO PR MICRO-VUG POR IP, NO VIS CUT OR SHOW

SH-RD TO DRK RD GY MOTT, FRM TO SFT, BLKY SLTY TXT, CALC IP

4105'-4107' LS-HG TN TO TN, WHT IP (WDRK BRN BLK OIL STN IN 50%), HD DNS TO BRTT, MD TO F-XLN S-CHLKY, TR IMBD SM CALC-XLS IP SLI TR IMBD PYR, YEL GLD TO BRT YEL GLD FLO IN 30%, PR TO FR INTER-XLN POR IN 2%, TR FR MICRO-VUG POR IN 1%, FR FLSH CUT, FR TO TR GD SLW STRM IN 30%, LT TN TO TN LCH ON DSH, LT OIL ODOR

LANSING "D" ZONE 4118' (-961)
LS-OFF WHT TO CRM BFF, V HD DNS, VF-XLN, CRYPTO-XLN IP, HV TR SFT TO FRM WHT CHLK IN TRAY, TR IMBD SM CALC-XLS, DLL YEL MIN FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

SH-BLK SFT CARB

SH-GY TO MD GY RD, SFT TO GMMY IP, HVY TR SFT WHT CHLK,

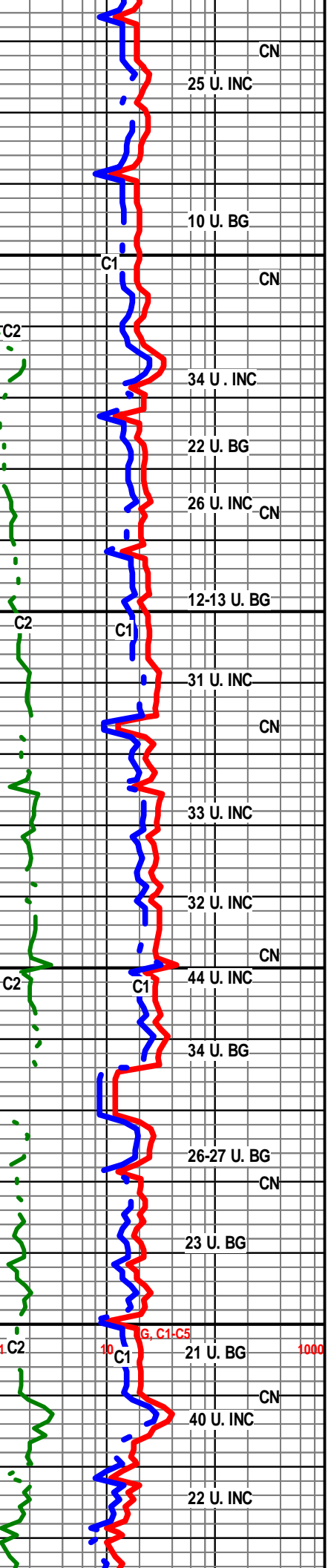
4151'-4153' LS-CRM TO LT TN (W/TN TO DRK TN OIL STN IN 30%), HD DNS TO BRTT IP, V/F-XLN, S-SUCRO, TR IMBD V SM CALC-XLS, SL TR SFT WHT CHLK IP, DLL YEL FLO IN 20%, V PR TO PR INTER-XLN POR IN 1%, WK FLSH CUT, PR TO FR TR GD SLO STRM IN 10%, NO LCH ON DSH NO OIL ODOR

LANSING "G" ZONE 4166' (-999')
LS-CRM BFF TO LT TN, HD DNS TO BRTT, F/MD-XLN, S-CHLKY IP, ABDT CLR TRANS CHRT THRU, HVY TR SFT WHT CHLK THRU, TR IMBD SM TO MD CALC-XLS, V DLL YEL TO YEL MIN FLO IN 30%, PR VUG POR IN 1%, NO VIS CUT OR SHOW

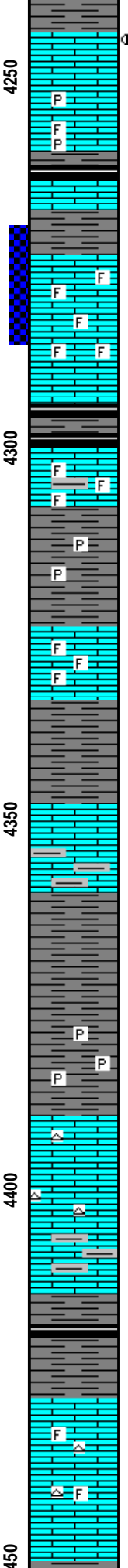
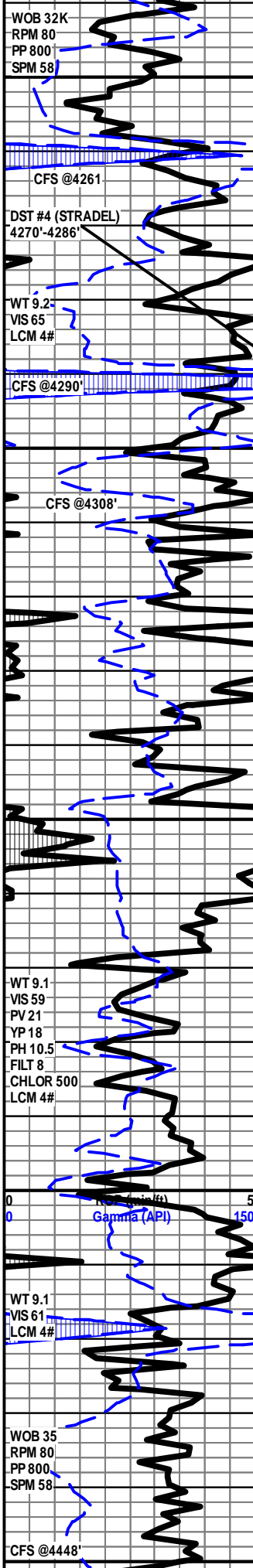
SH-BLK SFT CARB, W/ GY TO LT GY, SFT TO V GMMY, TR RD SH, SLI TR PYR CLSTRS IP

LS-OFF WHT TO CRM BFF, HD DNS, VF/F-XLN, S-SUCRO IP, ABDT SFT TO GMMY WHT CHLK THRU TRAY, TR IMBD SM TO LG CALC-XLS IP, SLI TR IMBD FOSS FRGS, YEL TO DLL YEL FLO THRU, PR TO FR INTER-XLN POR IN 2%, PR MICRO-VUG POR SCAT IN 2%, NO VIS CUT OR SHOW

SH-RD TO DRK RD BRN GY IP, FRM TO SFT BLKY SLTY TXT, W/ GRN CLY



LANSING "J" ZONE 4244' (-1077')



4244'-4246' LS-OFF WHT TO WHT CRM IP (W/ BLK TO BRN OIL STN IN 30%), F/VF-XLN, S-CHLKY IMBD SM CALC-XLS, DLL YEL TO YEL GLD FLO IN 30%, V PR INTER-XLN POR IN 1%, WK FL SH CUT, FR TO GD SLW STRM IN 20%, NO LCH ON DSH NO OIL ODOR

LS- CRM BFF TO LT TN, HD DNS TO BRTT IP, MD/F-XLN, RE=XLN S-SUCRO, HVY TR IMBD LG CALC-XLS TR IMBD DISS PYR, SLI TR IMBD FOSS FRGS IP, DLL YEL FLO IN 40%, FR TO PR INTER-XLN POR IN 2-3%, TR PR VUG POR IP, NO VIS CUT OR SHOW

LS-OFF WHT TO CRM, HD DNS F/VF-XLN, S-CHLKY, HVY TR IMBD MICRO-FOSS, TR IMBD CALC-XLS IP, V DLL YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

SH-BLK SFT CARB

LS-OFF WHT TO CRM LT GY IP, HD DNS VF-XLN, TR IMBD FOSS FRGS, IMBD SM CALC-XLS IP, SLI TR IMBD GY SH, DLL YEL MIN FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

BKC 4309' (-1142')

SH- GY TO MD GY, FRM TO SFT IP, BLKCY SMTH TXT, TR PYR CLSTRS

LS- OFF WHT TO CRM BFF, HD DNS, VF-XLN, CRYPTO-XLN IP, TR IMBD SM FOSS FRGS IP, SLI TR IMBD CALC-XLS, DLL YEL TO YEL MIN FLO IN 50%, NO VIS POR, NO VIS CUT OR SHOW

SH- MD GY TO GY RD, FRM TO SFT IP, BLKCY SLTY TXT, TR SFT WHT CHLK

LS- OFF WHT TO WHT CRM IP, V HD DNS, VF/CRYPTO-XLN, TR IMBD RD SH IP, DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

SH- GY TO DK GY, V FRM, BLKCY SLTY TXT IP, V CALC

SH- GY TO DK GY W/ RD TO GRN MOTT, FRM TO SFT IP, BLKCY SLTY TXT, W/ GRN CLY, SLI TR IMBD DISS PYR IP

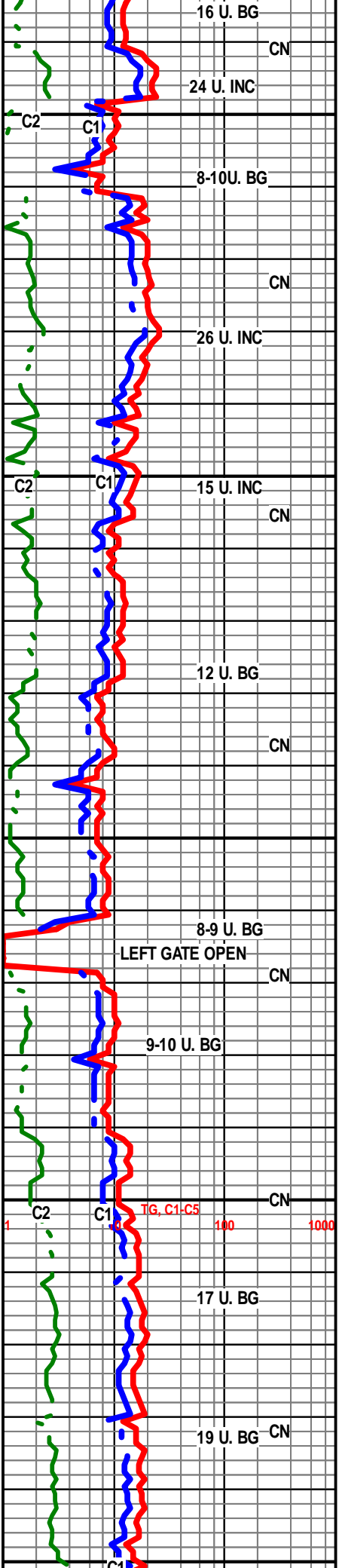
LS- WHT TO OFF WHT CRM, V HD DNS, VF-XLN, S-CHLKY, IMBD RD & GY SH, TR WHT CHRT, DLL YEL MIN FLO IP, NO VIS POR NO VIS CUT OR SHOW

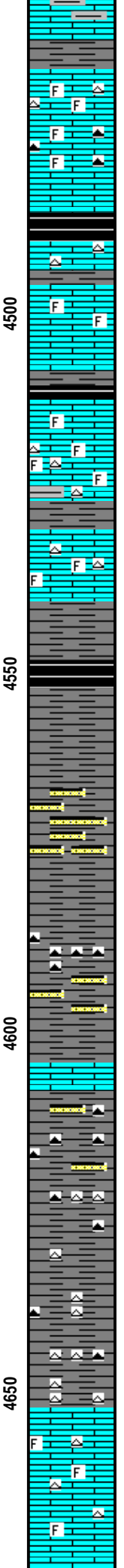
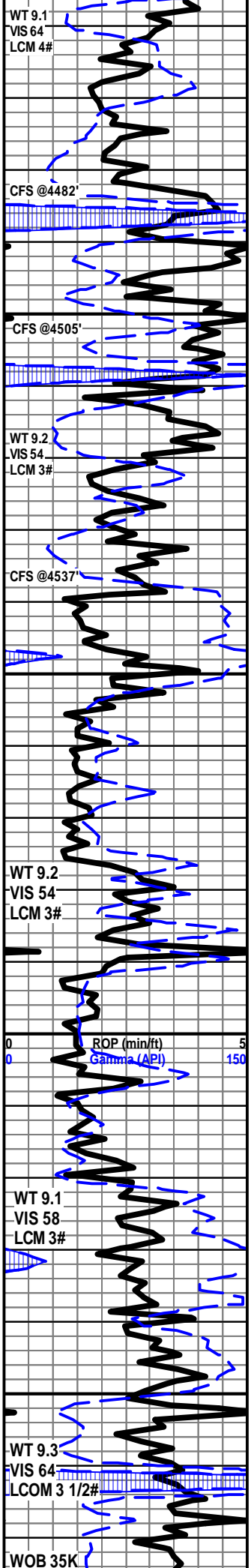
LS-OFF WHT TO LT GY RD IP, HD DNS, VF/F-XLN, HVY TR INTER-BD RD & GY SH, TR IMBD CALC-XLS IP, NO VIS FLO, NO VIS POR NO VIS SHOW

LABETTE SHALE 4417' (-1250)

SH- BLK SF CRB W/GY TO DRK GY, V FRM TO SFT IP, BLKY, CALC IP

LS-CRM TO LT TN, HD DNS, VF-XLN, S-CHLKY IP, SLI TR IMBD FOSS FRGS, TR CLR CHRT IP, V DLL YEL MIN FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW





LS- TN TO LT TN, HD DNS, VF-XLN, TR IMBD FOSS FRGS IP, SLI TR IMBD GY SH, FREE FOSS IP, DLL YEL TO YEL MIN FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS VF/F-XLN S-SUCRO IP HV TR CLR TO ORNG TRANS CHRT THRU TRAY, TR IMBD FOSS FRGS, DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

FORT SCOTT 4491' (-1324')

LS-CRM TO LT TN TN, HD DNS, VF/F-XLN, S-CHLKY IP, IMBD CLR CHRT, TR SFT WHT CHLK IN TRAY, SLI TR IMBD SM FOSS FRGS, YEL MIN FLO THRU, NO VIS POR NO VIS CUT OR SHOW

CHEROKEE 4513' (-1346')

LS-TN TO DRK TN CRM IP, V HD DNS, VF-XLN, TR IMBD ORNG CHRT, IMBD RD SH IP, TR IMBD FOSS FRGS, DLL YEL TO YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN TO TN OFF WHT IP, HD DNS, VF/F-XLN, HVY TR CLR TRANS CHRT THRU TRAY, TR IMBD SM FOSS FRGS, DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

SH- RD ORNG GY, FRM TO SFT GMMY IP, BLCKY SMTH TXT, CALC-IP, TR PYR CLRST, W/ BLCK SFT CARB

SH- RD TO DK RD GRN PRP MOTT, FRM TO SFT IP, BLCKY, SLTY TXT, SLI TR LS INTER-BDS

SH & SS- RD TO DK GY, FRM TO SFT, BLCKY TO SPNTY, SMTH TXT, ABDT PRED UNCONSOLIDATE LG QRTZ GRNS THRU, S-ANG TO RND QRTZ GRNS, TR VV/F-GRNS QRTZ

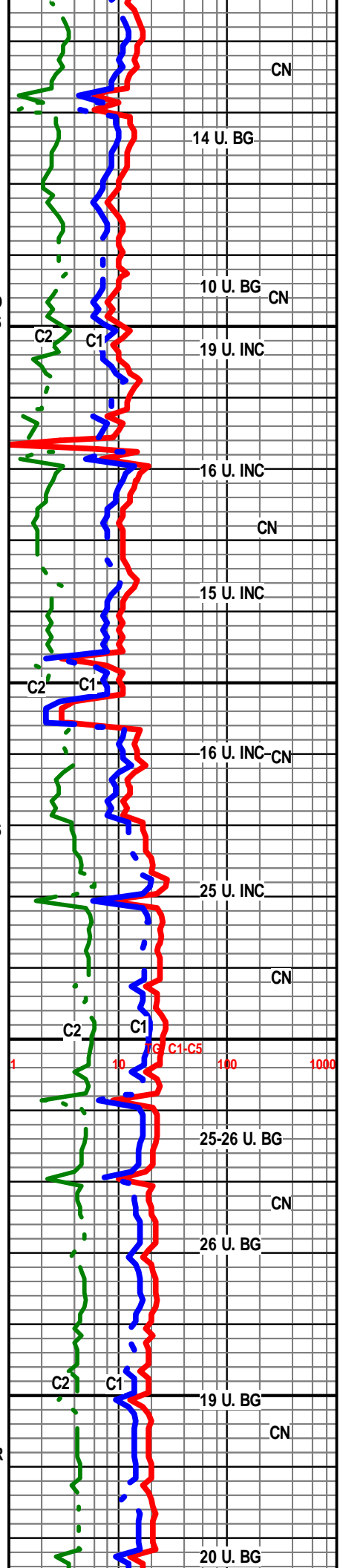
SH- RD TO DK RD GRN MOTT, FRM TO SFT, BLCKY, W/ ABDT ORNG CHRT THRU, HVY TR PRED UNCONSOLIDATED QRTZ GRNS, TR SS CLSTRS W/ IMBD RD SH

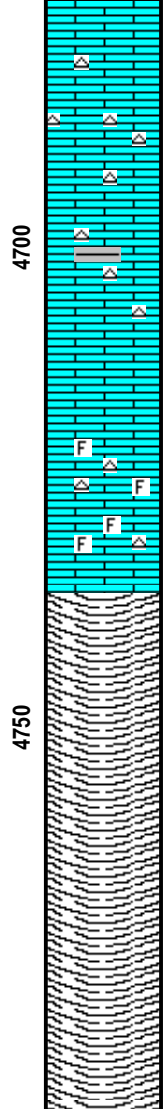
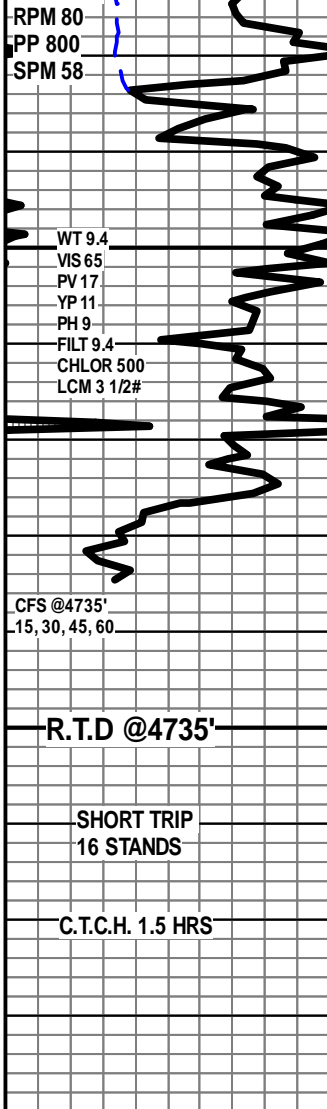
SH- RD TO ORNG GRN GY, SFT TO FRM, BLCKY, ABDT ORNG TO CLR TRANS CHRT THRU, TR PRED UNCONSOLIDATED QRTZ GRNS, TR LS INTER-BDS

SH- RD TO PRP YEL GRN MOTT, FRM TO SFT, SMTH TXT, HVY TR CLR TO YEL CHRT THRU

MISSISSIPPIAN 4654' (-1487')

LS-WHT TO OFF WHT, HD DNS, VF-XLN, S-SUCRO HVY TR CLR TO ORNG TRANS CHRT, TR IMBD SM FOSS FRGS IP, V DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW





LS- LT TN TO TN, OFF WHT, HD DNS, VF-XLN S-SUCRO, ABDT CLR TRANS CHRT THRU TRAY, HVY TR YEL CLY, NO VIS FLO, NO VIS POR NO VIS SHOW

LS- OFF WHT TO YEL GRN, HD DNS, VF/F-XLN, HVY TR IMBD YEL CLY, TR CLR TO ORN CHRT THRU TRAY, TR RD SH INTER-BDS, NO VIS FLO, NO VIS POR NO VIS SHOW

LS- OFF WHT TO WHT, HD DNS TO BRTT IP, VF-XLN, V SUCRO HVY TR WHT CHRT IN TRAY, SLI TR IMBD SM FOSS FRGS, NO VIS FLO, NO POR NO VIS CUT OR SHOW

R.T.D @ 10;15 A.M. 10/23/14

DROP SURVEY

T.O.F.L @ 2:30P.M. 10/23/14

WEATHERFORD/LIBERAL, KS

LOGGERS T.D. 4734'

