



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1235664
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: _____

1235664

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
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
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: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	FISHER CATTLE CO 2-35
Doc ID	1235664

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 145501

Invoice Date: Sep 1, 2014

Voice: (817) 546-7282
Fax: (817) 246-3361

Page: 1

9/25

Bill To:
Samuel Gary, Jr. & Assoc. 1935 Louie St Hays, KS 67601

RECEIVED

SEP 17 2014

SAMUEL GARY JR.
& ASSOCIATES, INC.

V1409 AR-610

Customer ID	Field Ticket #	Payment Terms	
Gary	64210	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Sep 1, 2014	10/1/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Fisher Cattle Co. #2-35		
300.00	CEMENT MATERIALS	Class A Common	17.90	5,370.00
846.00	CEMENT MATERIALS	Chloride	1.10	930.60
315.00	CEMENT SERVICE	Cubic Feet Charge	2.48	781.20
1,089.00	CEMENT SERVICE	Ton Mileage Charge	2.75	2,994.75
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
75.00	CEMENT SERVICE	Pump Truck Mileage	7.70	577.50
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
75.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	330.00
1.00	CEMENT SUPERVISOR	Andrew Forslund		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		
1.00	OPERATOR ASSISTANT	Wayne Messalle		

DRLG
 COMP
 W/O
 LOE
 GG

Account	8300.138
Well/Prospect	
Deck	
AFE	
Approval	See field ticket
Description	

[Handwritten signature]

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 3,831.39

ONLY IF PAID ON OR BEFORE
Oct 1, 2014

Subtotal	12,771.30
Sales Tax	497.75
Total Invoice Amount	13,269.05
Payment/Credit Applied	
TOTAL	13,269.05

< 3831.39 >
9437.66

ALLIED OIL & GAS SERVICES, LLC 064210

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley

DATE <u>9-1-14</u>	SEC. <u>35</u>	TWP. <u>3</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION <u>6:30 AM</u>	JOB START <u>9:30 AM</u>	JOB FINISH <u>10:20 PM</u>
LEASE <u>Fisher cattle</u>	WELL# <u>2-35</u>	LOCATION <u>McDonald 35 1E 4N</u>		COUNTY <u>Rawlins</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>		E. N+G into					

CONTRACTOR <u>Muckin 8</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>344'</u>
CASING SIZE <u>8 1/2</u>	DEPTH <u>344'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>20'</u>	
PERFS.	
DISPLACEMENT <u>20.63 BBL</u>	

CEMENT	AMOUNT ORDERED <u>300 sks com</u>
	<u>3960</u>
COMMON <u>300 sks</u>	@ <u>12.90</u> <u>5370.00</u>
POZMIX	@
GEL	@
CHLORIDE <u>8 1/2 #</u>	@ <u>1.10</u> <u>930.00</u>
ASC	@

EQUIPMENT		<u>Material mtl.</u>	<u>6300.00</u>
PUMP TRUCK # <u>431</u>	CEMENTER <u>Andrew Fastlund</u>	<u>(1790.00/300)</u>	
BULK TRUCK # <u>818</u>	HELPER <u>Brandon Wilkerson</u>		
BULK TRUCK #	DRIVER <u>Wayne Messalle</u>		
BULK TRUCK #	DRIVER		

HANDLING <u>3.15 c/y/ft</u>	@ <u>2.48</u> <u>781.20</u>
MILEAGE <u>2.25 ton/mile</u>	@ <u>1452.00</u> <u>2994.25</u>

REMARKS:

Cement Did Circulate

thank you

CHARGE TO: Samuel Gary

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>344'</u>	
PUMP TRUCK CHARGE	<u>1572.25</u>
EXTRA FOOTAGE	@
MILEAGE <u>25 miles</u>	@ <u>2.20</u> <u>550.50</u>
MANIFOLD <u>head</u>	@ <u>225.00</u>
<u>Light vehicle</u>	@ <u>4.10</u> <u>330.00</u>

(1941.01/300)

TOTAL 6470.70

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL _____

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 JAMES L. Pannema

SIGNATURE James L. Pannema

SALES TAX (if Any) _____

TOTAL CHARGES 12,711.30

DISCOUNT 3,831.39 (30%) IF PAID IN 30 DAYS

8,939.91 Net.

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 145658
Invoice Date: Sep 13, 2014
Page: 1

Voice: (817) 546-7282
Fax: (817) 246-3361

RECEIVED

SEP 24 2014

SAMUEL GARY JR.
& ASSOCIATES, INC.

19/2

V1410-AP-1

Bill To:
Samuel Gary, Jr. & Assoc.
1935 Louie St
Hays, KS 67601

Customer ID	Field Ticket #	Payment Terms	
Gary	64229	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Sep 13, 2014	10/13/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Fisher Cattle Co. #2-35		
255.00	CEMENT MATERIALS	60/40/4% Gel Blend	18.92	4,824.60
64.00	CEMENT MATERIALS	Flo Seal	2.97	190.08
273.87	CEMENT SERVICE	Cubic Feet Charge	2.48	679.20
858.00	CEMENT SERVICE	Ton Mileage Charge	2.75	2,359.50
1.00	CEMENT SERVICE	Plug to Abandon	2,600.47	2,600.47
75.00	CEMENT SERVICE	Pump Truck Mileage	7.70	577.50
75.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	330.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	110.00	110.00
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		

DRLG COMP W/O LOE GG

Account	8200,145
Well/Prospect	
Deck	
AFE	
Approval	
Description	

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 3,468.40

ONLY IF PAID ON OR BEFORE
Oct 13, 2014

Subtotal	11,671.35
Sales Tax	922.04
Total Invoice Amount	12,593.39
Payment/Credit Applied	
TOTAL	12,593.39

(3468.40)
9124.99



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60067

DST#: 1

ATTN: Chris Mitchell

Test Start: 2014.09.05 @ 18:25:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:16:45

Time Test Ended: 03:36:15

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

Interval: 4042.00 ft (KB) To 4120.00 ft (KB) (TVD)

Reference Elevations: 3257.00 ft (KB)

Total Depth: 4120.00 ft (KB) (TVD)

3252.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 18.80 psig @ 4043.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.05

End Date:

2014.09.06

Last Calib.:

2014.09.06

Start Time: 18:25:05

End Time:

03:36:15

Time On Btm:

2014.09.05 @ 21:16:30

Time Off Btm:

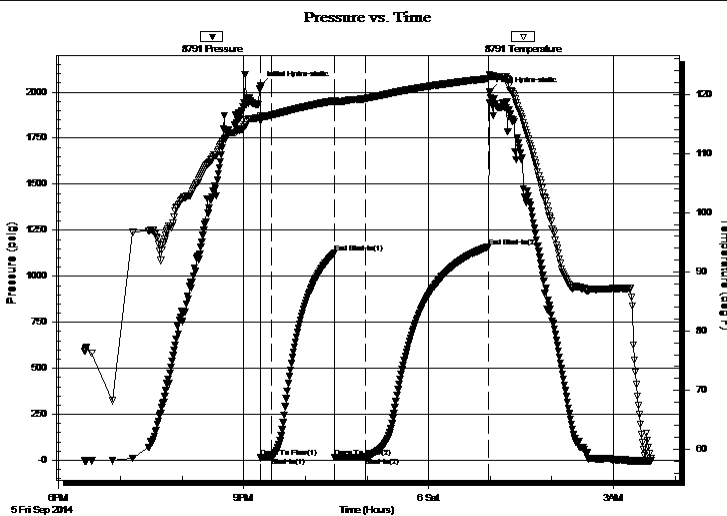
2014.09.06 @ 00:59:30

TEST COMMENT: 10 - IF: 1/8" Blow at open, built to 1/4"

60 - IS: No blow back

30 - FF: No blow

120 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2034.70	116.32	Initial Hydro-static
1	14.62	115.58	Open To Flow (1)
11	16.44	116.43	Shut-In(1)
72	1127.59	118.91	End Shut-In(1)
73	17.11	118.56	Open To Flow (2)
102	18.80	119.26	Shut-In(2)
222	1161.08	122.65	End Shut-In(2)
223	2004.18	123.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
7.00	Mud 100%	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60067

DST#: 1

ATTN: Chris Mitchell

Test Start: 2014.09.05 @ 18:25:00

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: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
7.00	Mud 100%	0.034

Total Length: 7.00 ft Total Volume: 0.034 bbl

Num Fluid Samples: 0

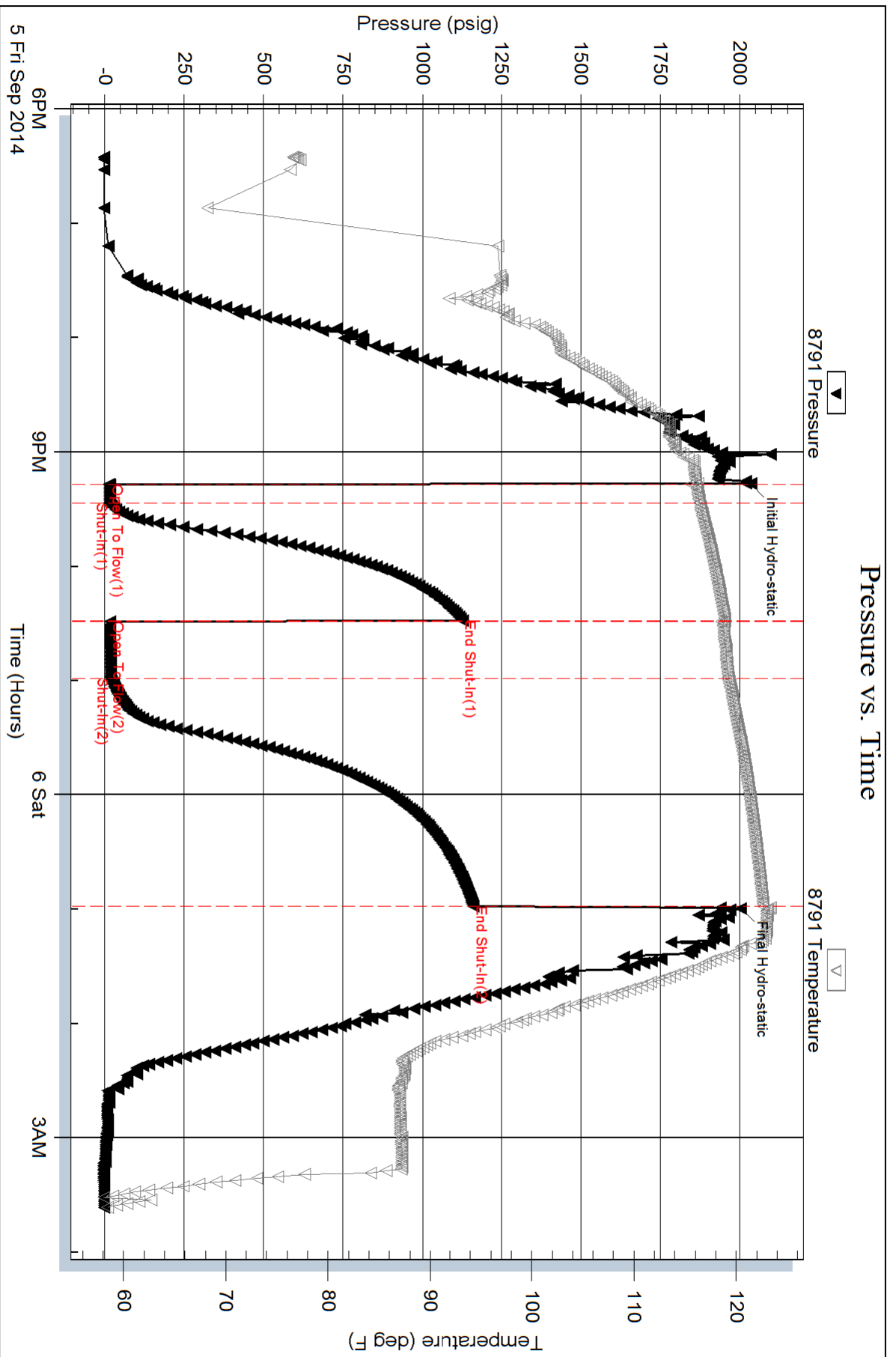
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler = 110 PSI, 2300 mL Mud 100%



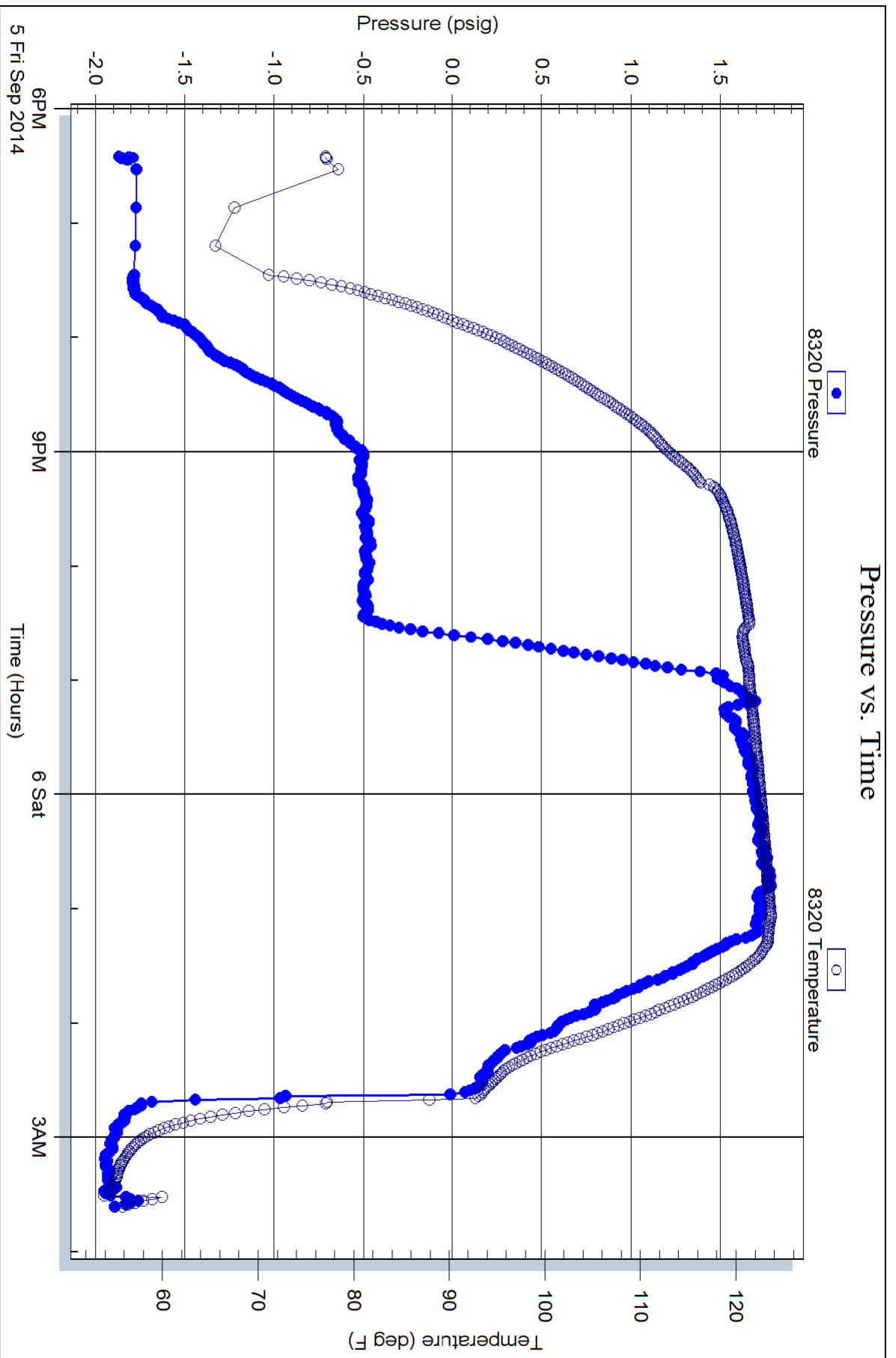
Serial #: 8320

Fluid

Samuel Gary Jr. & Associates

Fisher Cattle #2-35

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 60067

Printed: 2014.09.06 @ 06:07:45



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60068

DST#: 2

ATTN: Chris Mitchell

Test Start: 2014.09.06 @ 15:42:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:00:15

Time Test Ended: 23:02:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4117.00 ft (KB) To 4187.00 ft (KB) (TVD)

Reference Elevations: 3257.00 ft (KB)

Total Depth: 4187.00 ft (KB) (TVD)

3252.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 18.41 psig @ 4118.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.06

End Date:

2014.09.06

Last Calib.:

2014.09.06

Start Time:

15:42:05

End Time:

23:02:29

Time On Btm:

2014.09.06 @ 18:00:00

Time Off Btm:

2014.09.06 @ 20:43:45

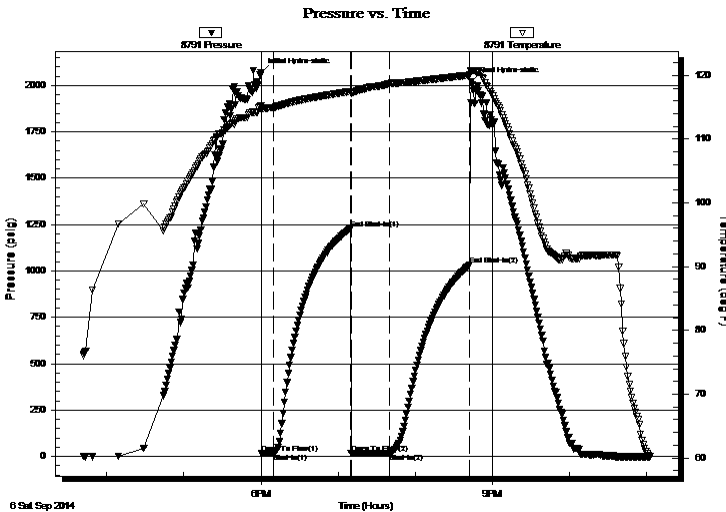
TEST COMMENT: 10 - IF: 1/8" Blow at open, built to just over 1/4"

60 - IS: No blow back

30 - FF: No blow

60 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2068.10	115.28	Initial Hydro-static
1	15.24	114.66	Open To Flow (1)
10	16.16	114.96	Shut-In(1)
70	1226.30	117.47	End Shut-In(1)
70	16.92	117.08	Open To Flow (2)
100	18.41	118.74	Shut-In(2)
163	1034.00	120.05	End Shut-In(2)
164	2019.81	120.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
6.00	Mud 100%	0.03

* 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

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60068

DST#: 2

ATTN: Chris Mitchell

Test Start: 2014.09.06 @ 15:42:00

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: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
6.00	Mud 100%	0.030

Total Length: 6.00 ft Total Volume: 0.030 bbl

Num Fluid Samples: 0

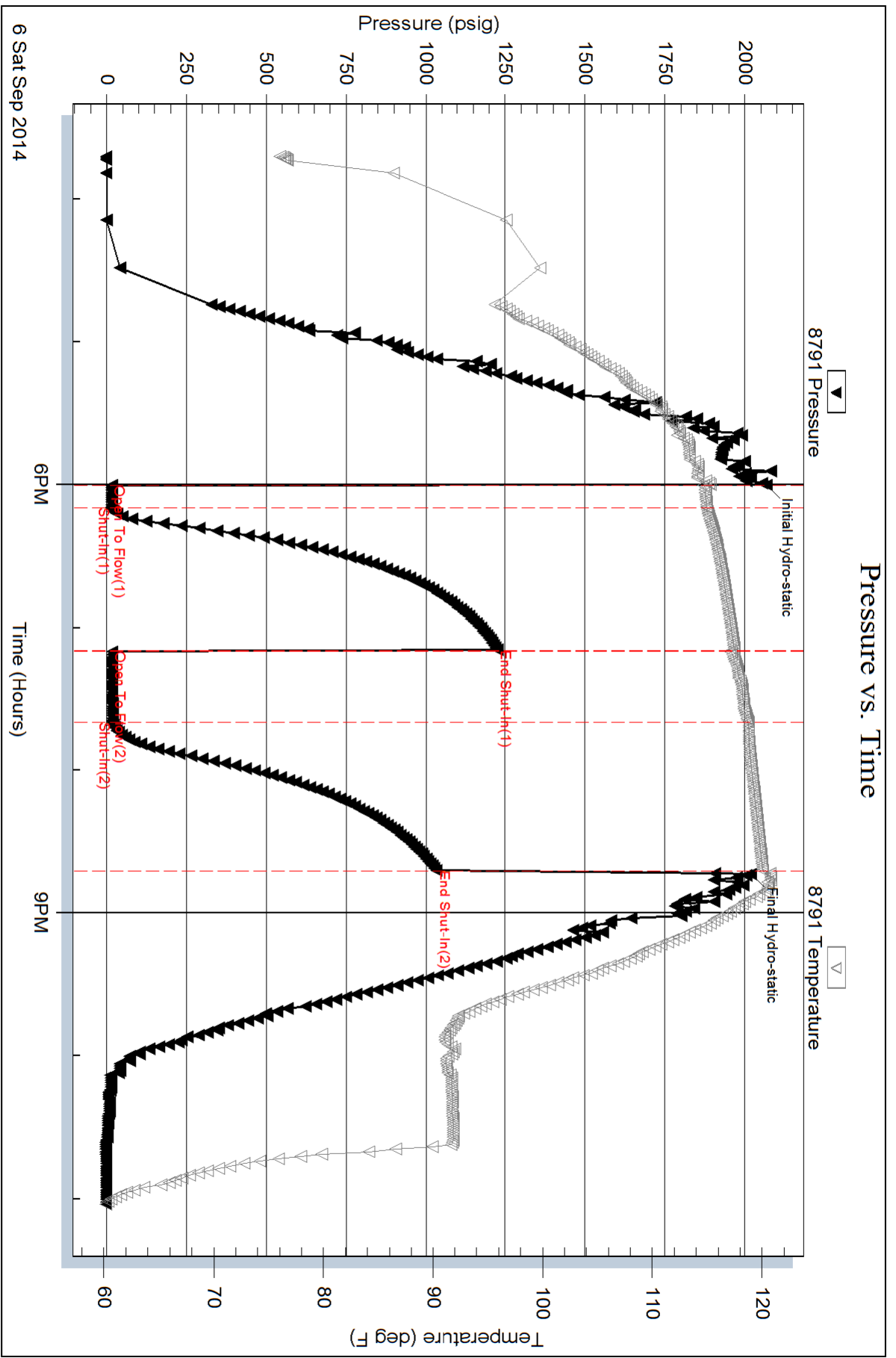
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler - 140 PSI, 2000 mL mud 100%



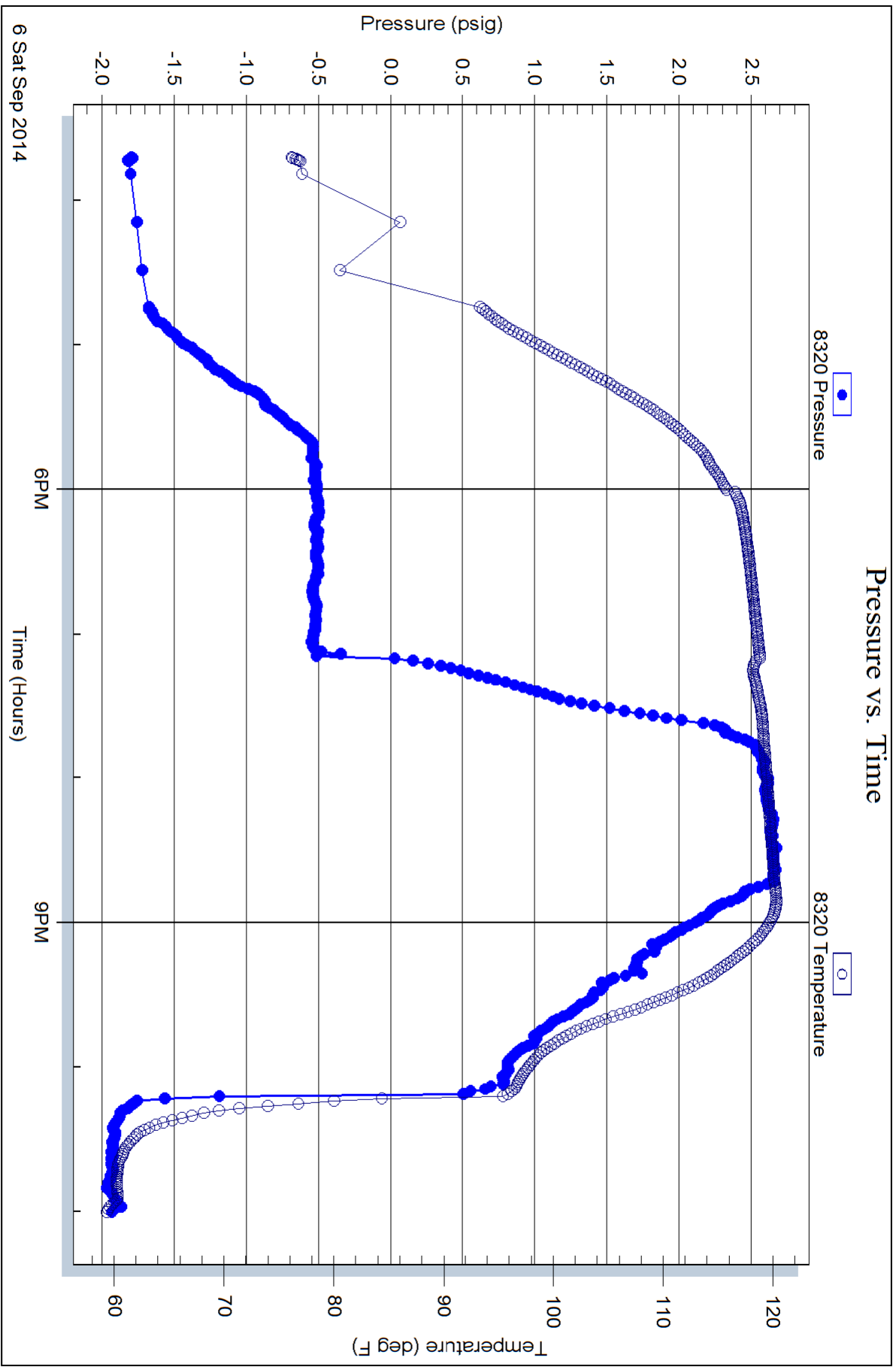
Serial #: 8320

Fluid

Samuel Gary Jr. & Associates

Fisher Cattle #2-35

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60069

DST#: 3

ATTN: Chris Mitchell

Test Start: 2014.09.07 @ 09:21:00

GENERAL INFORMATION:

Formation: **LKC "C - D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:11:45

Time Test Ended: 18:46:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4185.00 ft (KB) To 4240.00 ft (KB) (TVD)

Reference Elevations: 3257.00 ft (KB)

Total Depth: 4240.00 ft (KB) (TVD)

3252.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 1107.13 psig @ 4186.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.07

End Date:

2014.09.07

Last Calib.:

2014.09.07

Start Time:

09:21:05

End Time:

18:46:00

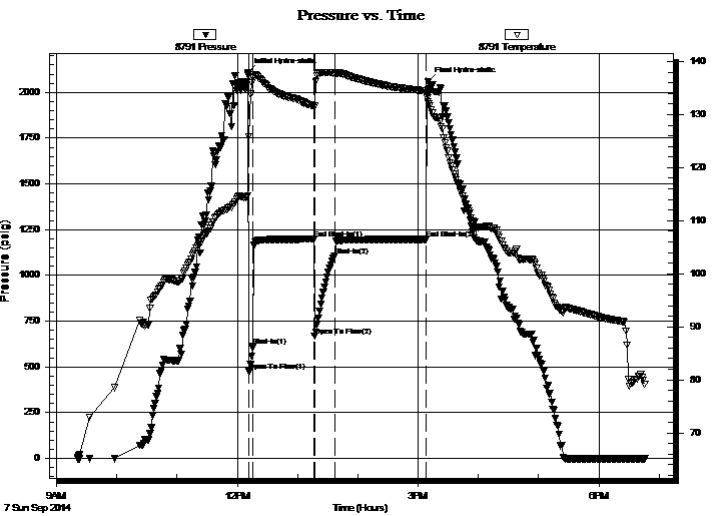
Time On Btm:

2014.09.07 @ 12:10:45

Time Off Btm:

2014.09.07 @ 15:09:45

TEST COMMENT: 5 - IF: Blow built to BOB (11") in 45 seconds
60 - IS: Blow back built to 1 1/4"
20 - FF: Blow built to BOB in 45 seconds
90 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.20	114.69	Initial Hydro-static
1	474.80	125.82	Open To Flow (1)
5	613.95	137.06	Shut-In(1)
66	1197.56	131.63	End Shut-In(1)
66	666.72	131.59	Open To Flow (2)
86	1107.13	137.79	Shut-In(2)
178	1197.47	134.42	End Shut-In(2)
179	2056.68	132.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1895.00	Water w/slight trace oil 97%w, 3%m	24.89
470.00	MW w/trace oil 54%w, 46%m	6.59

* 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

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60069

DST#: 3

ATTN: Chris Mitchell

Test Start: 2014.09.07 @ 09:21:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 61.00 sec/qt
Water Loss: 9.35 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1895.00	Water w /slight trace oil 97%w , 3%m	24.887
470.00	MW w /trace oil 54%w , 46%m	6.593

Total Length: 2365.00 ft Total Volume: 31.480 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

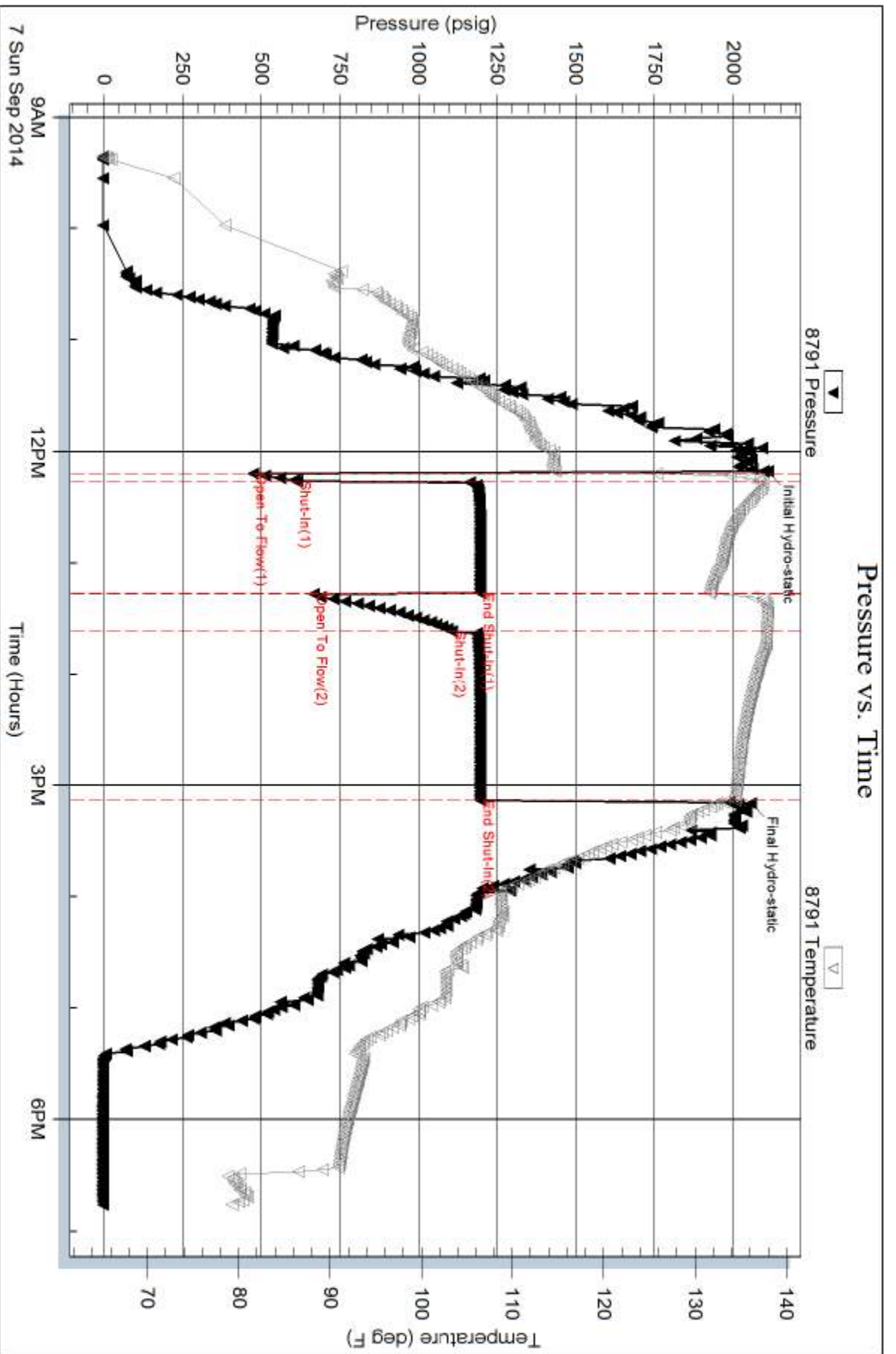
Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .152 ohms @ 78.4 deg F Chlorides = 45,000 ppm

Sampler = 110 PSI, 2500 mL Water 99%w , 1%m

Fluids had H2S smell but low enough no readings on any meters



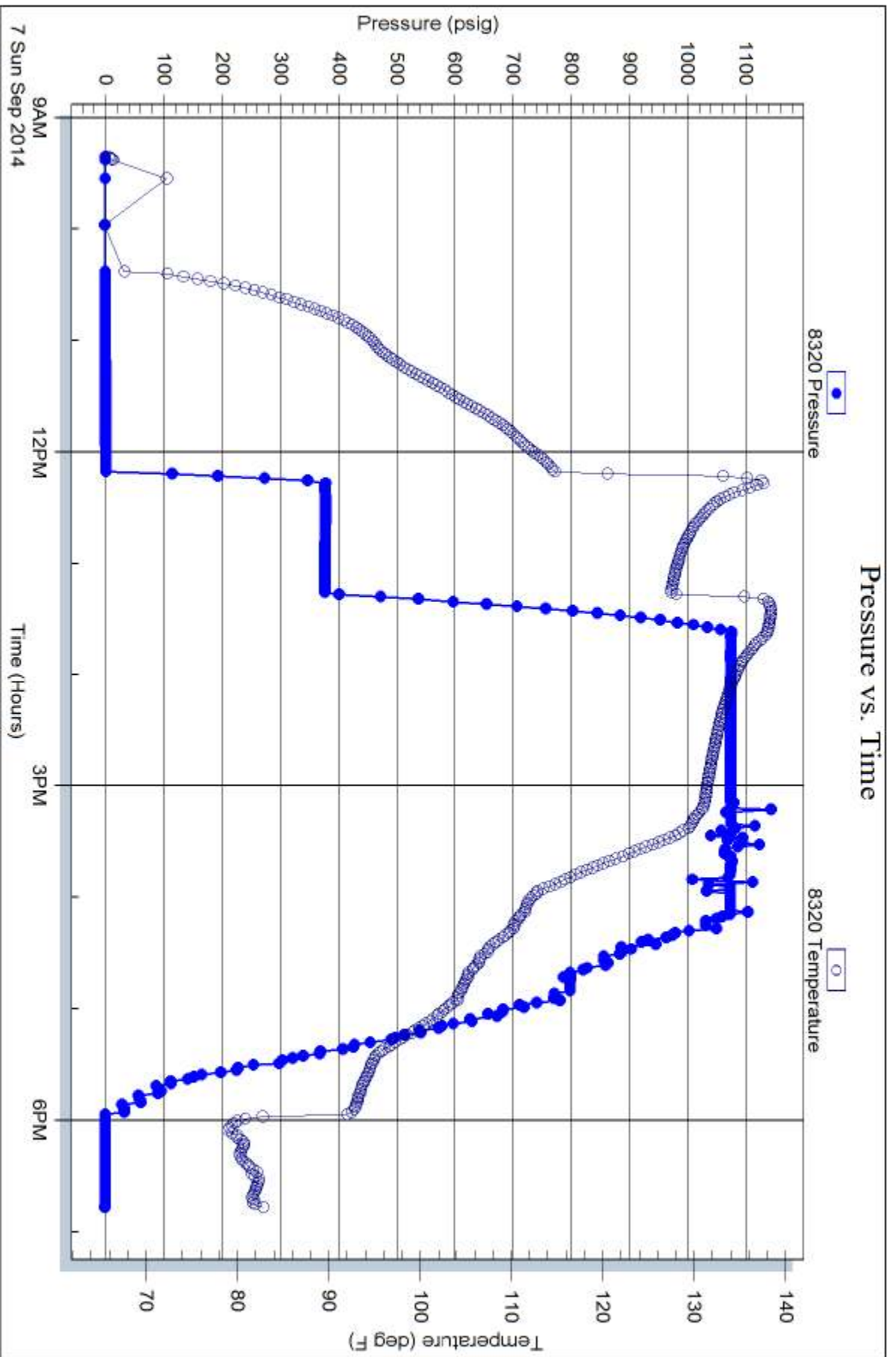
Serial #: 8320

Fluid

Samuel Gary Jr. & Associates

Fisher Cattle #2-35

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 60069

Printed: 2014.09.08 @ 08:55:59



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60070

DST#: 4

ATTN: Chris Mitchell

Test Start: 2014.09.08 @ 05:45:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:13:15

Time Test Ended: 15:12:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4236.00 ft (KB) To 4295.00 ft (KB) (TVD)

Reference Elevations: 3257.00 ft (KB)

Total Depth: 4295.00 ft (KB) (TVD)

3252.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 188.08 psig @ 4237.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.08

End Date:

2014.09.08

Last Calib.:

2014.09.08

Start Time:

05:45:05

End Time:

15:12:30

Time On Btm:

2014.09.08 @ 08:13:00

Time Off Btm:

2014.09.08 @ 11:58:00

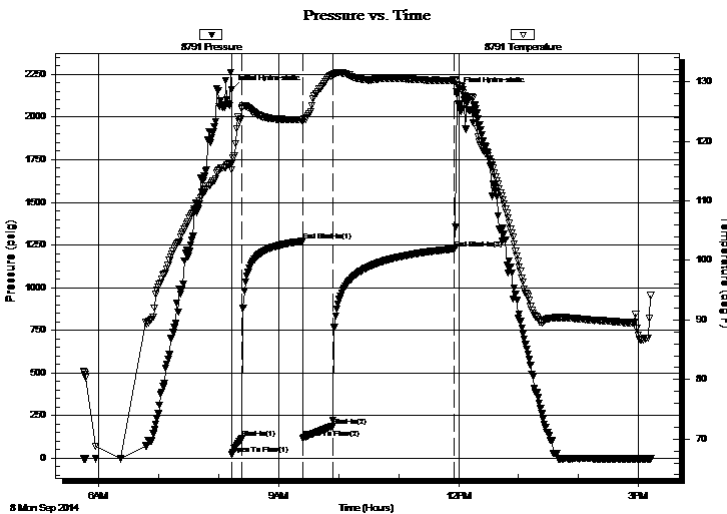
TEST COMMENT: 10 - IF: Blow built to 7 1/2"

60 - ISI: No blow back

30 - FF: Blow built to BOB (11") in 19 min.

120 - FSI: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2160.13	116.25	Initial Hydro-static
1	21.26	115.20	Open To Flow (1)
11	116.88	125.61	Shut-In(1)
71	1272.67	123.69	End Shut-In(1)
72	119.25	123.28	Open To Flow (2)
102	188.08	131.21	Shut-In(2)
223	1227.73	130.24	End Shut-In(2)
225	2150.17	129.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
191.00	MCW w/trace oil 78%w, 22%m	0.98
125.00	WCM w/trace oil 71%m, 29%w	1.75
60.00	SOCM 98%m, 2%o	0.84

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

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60070

DST#: 4

ATTN: Chris Mitchell

Test Start: 2014.09.08 @ 05:45:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:13:15

Time Test Ended: 15:12:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: **4236.00 ft (KB) To 4295.00 ft (KB) (TVD)**

Reference Elevations: 3257.00 ft (KB)

Total Depth: 4295.00 ft (KB) (TVD)

3252.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8320

Fluid

Press@RunDepth: psig @ 4201.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.08

End Date:

2014.09.08

Last Calib.:

2014.09.08

Start Time: 05:45:05

End Time:

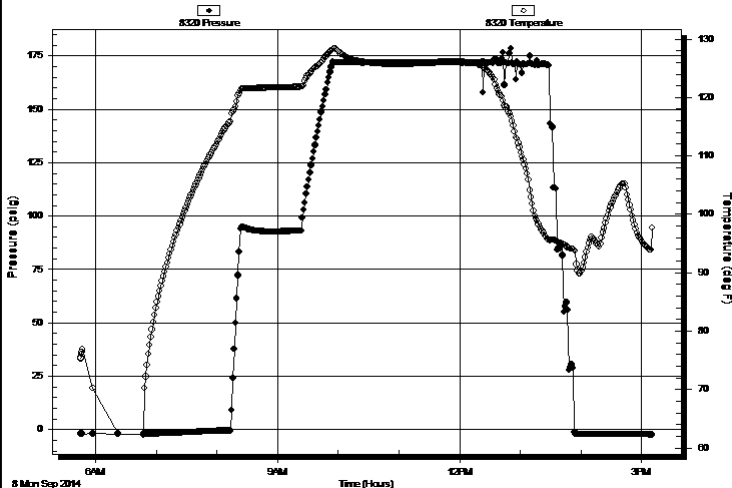
15:11:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 10 - IF: Blow built to 7 1/2"
60 - ISI: No blow back
30 - FF: Blow built to BOB (11") in 19 min.
120 - FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
191.00	MCW w/trace oil 78%w, 22%m	0.98
125.00	WCM w/trace oil 71%m, 29%w	1.75
60.00	SOCM 98%m, 2%o	0.84

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

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60070

DST#: 4

ATTN: Chris Mitchell

Test Start: 2014.09.08 @ 05:45:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
191.00	MCW w /trace oil 78%w , 22%m	0.985
125.00	WCM w /trace oil 71%m, 29%w	1.753
60.00	SOCM 98%m, 2%o	0.842

Total Length: 376.00 ft Total Volume: 3.580 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

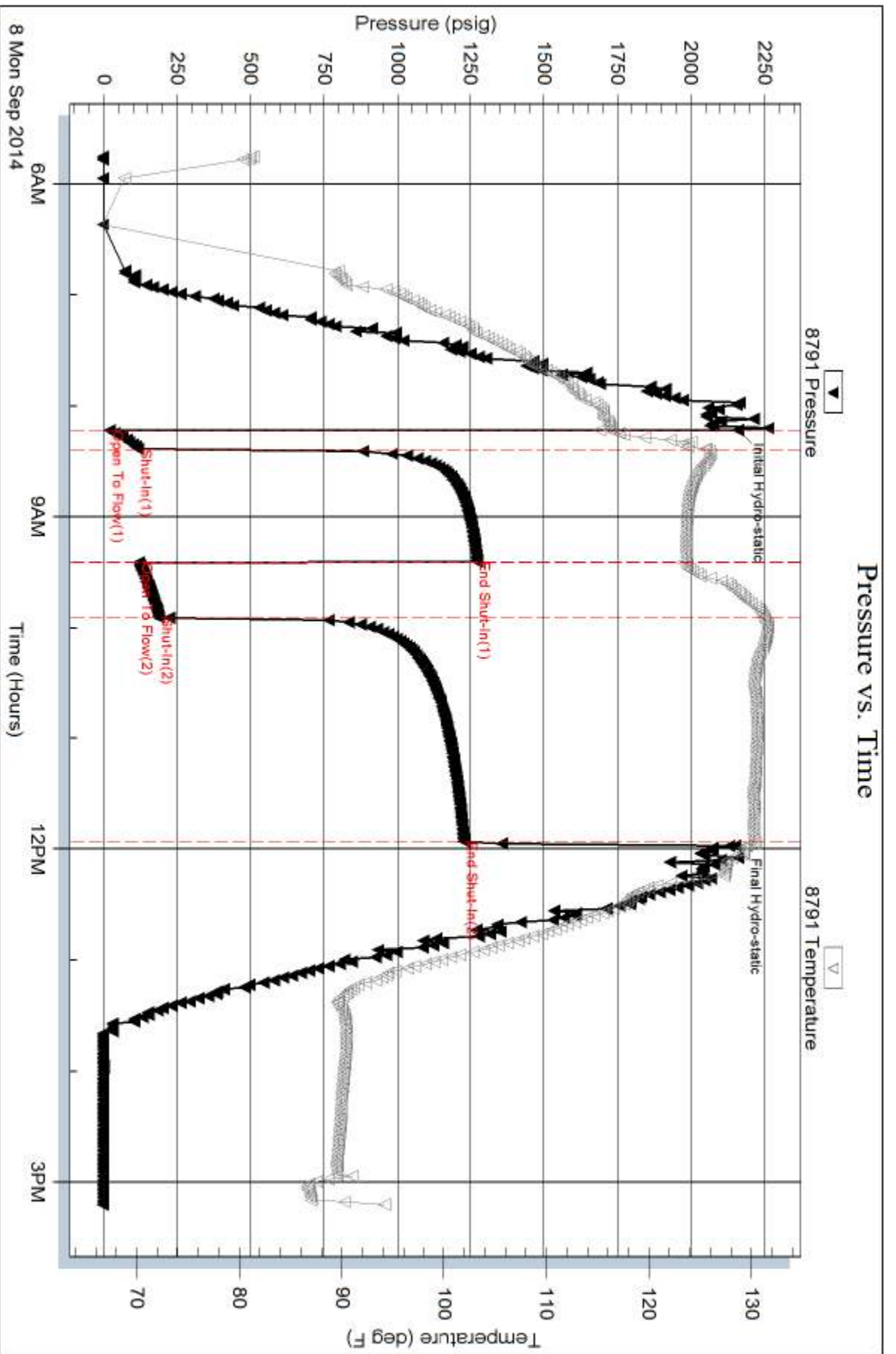
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .187 @ 99.8 deg F Chlorides = 26,000 ppm

Sampler = 170 PSI, 1300 mL Water 99%w , 1%m, 1200 mL MCW 75%w , 25%m - Both with trace of Oil



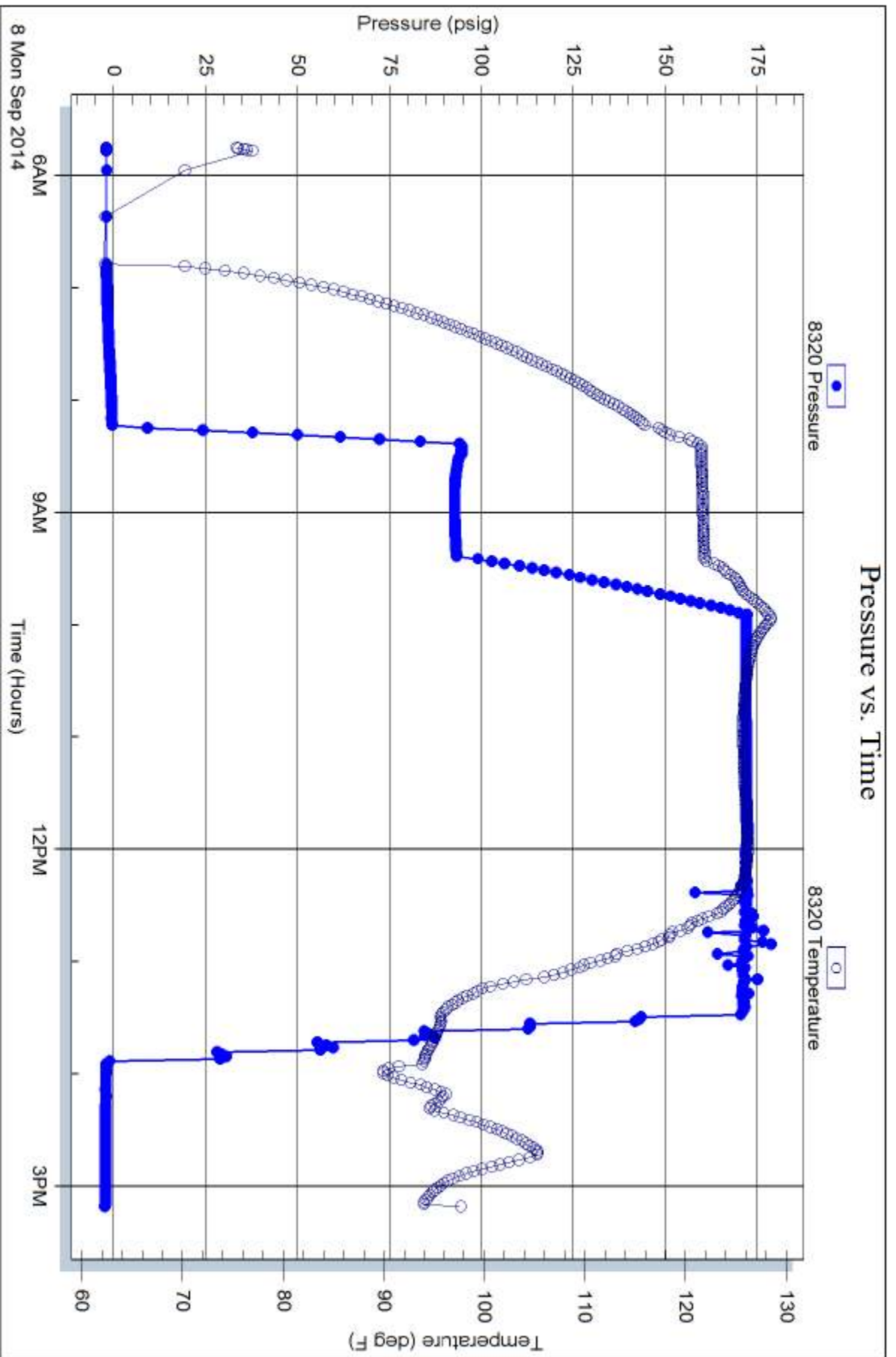
Serial #: 8320

Fluid

Samuel Gary Jr. & Associates

Fisher Cattle #2-35

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 60070

Printed: 2014.09.08 @ 16:09:23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60071

DST#: 5

ATTN: Chris Mitchell

Test Start: 2014.09.09 @ 22:00:00

GENERAL INFORMATION:

Formation: **Upper Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:28:30
 Time Test Ended: 06:45:15
 Interval: **4507.00 ft (KB) To 4570.00 ft (KB) (TVD)**
 Total Depth: 4570.00 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: 3257.00 ft (KB)
 3252.00 ft (CF)
 KB to GR/CF: 5.00 ft

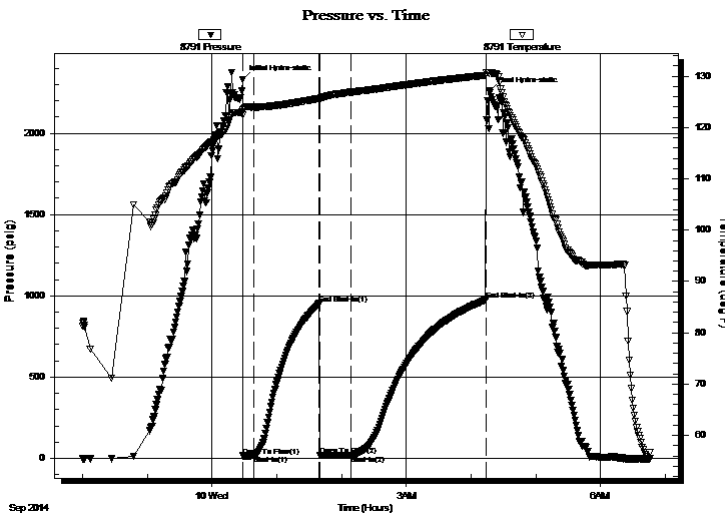
Serial #: 8791

Inside

Press@RunDepth: 19.67 psig @ 4508.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.09 End Date: 2014.09.10 Last Calib.: 2014.09.10
 Start Time: 22:00:05 End Time: 06:45:15 Time On Btm: 2014.09.10 @ 00:28:15
 Time Off Btm: 2014.09.10 @ 04:17:00

TEST COMMENT: 10 - IF: Blow built to almost 1/4"
 60 - ISI: No blow back
 30 - FF: No blow
 120 - FSI: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2330.18	123.42	Initial Hydro-static
1	15.39	122.41	Open To Flow (1)
10	17.15	123.97	Shut-In(1)
71	952.15	125.66	End Shut-In(1)
72	17.45	125.32	Open To Flow (2)
101	19.67	126.86	Shut-In(2)
226	975.58	130.18	End Shut-In(2)
229	2258.86	130.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud 100%	0.02

* 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

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60071

DST#: 5

ATTN: Chris Mitchell

Test Start: 2014.09.09 @ 22:00:00

GENERAL INFORMATION:

Formation: **Upper Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:28:30

Time Test Ended: 06:45:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4507.00 ft (KB) To 4570.00 ft (KB) (TVD)

Reference Elevations: 3257.00 ft (KB)

Total Depth: 4570.00 ft (KB) (TVD)

3252.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8320

Fluid

Press@RunDepth: psig @ 4472.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.09 End Date: 2014.09.10

Last Calib.: 2014.09.10

Start Time: 22:00:05 End Time: 06:46:15

Time On Btm:

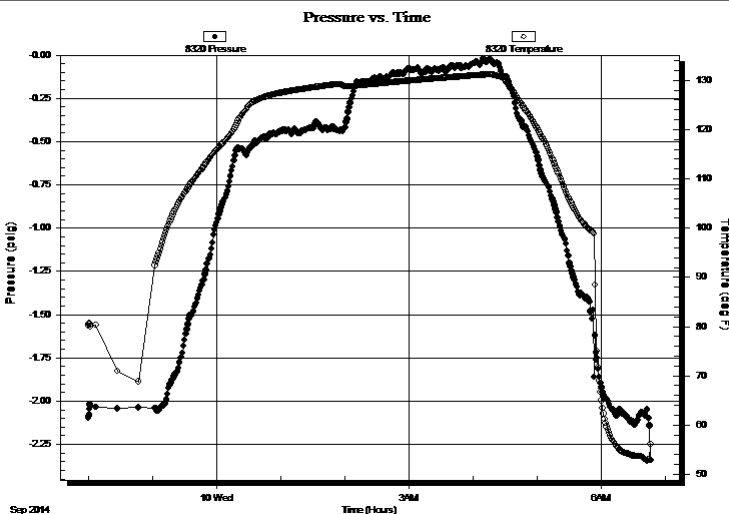
Time Off Btm:

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

60 - ISI: No blow back

30 - FF: No blow

120 - FSI: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud 100%	0.02

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

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60071

DST#: 5

ATTN: Chris Mitchell

Test Start: 2014.09.09 @ 22:00:00

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: 66.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
4.00	Mud 100%	0.020

Total Length: 4.00 ft Total Volume: 0.020 bbf

Num Fluid Samples: 0

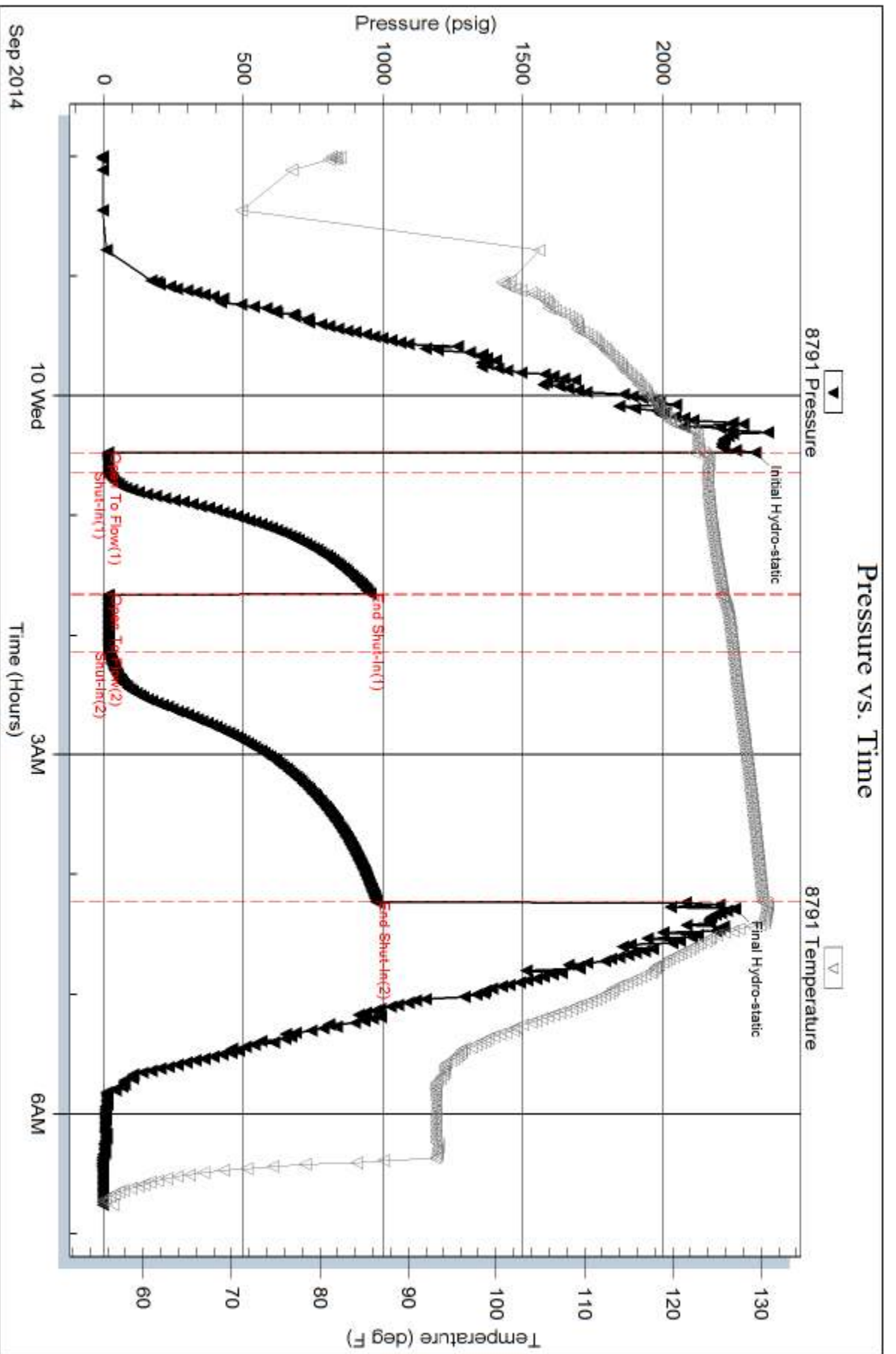
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler = 100 PSI, 2400 mL Mud 100%



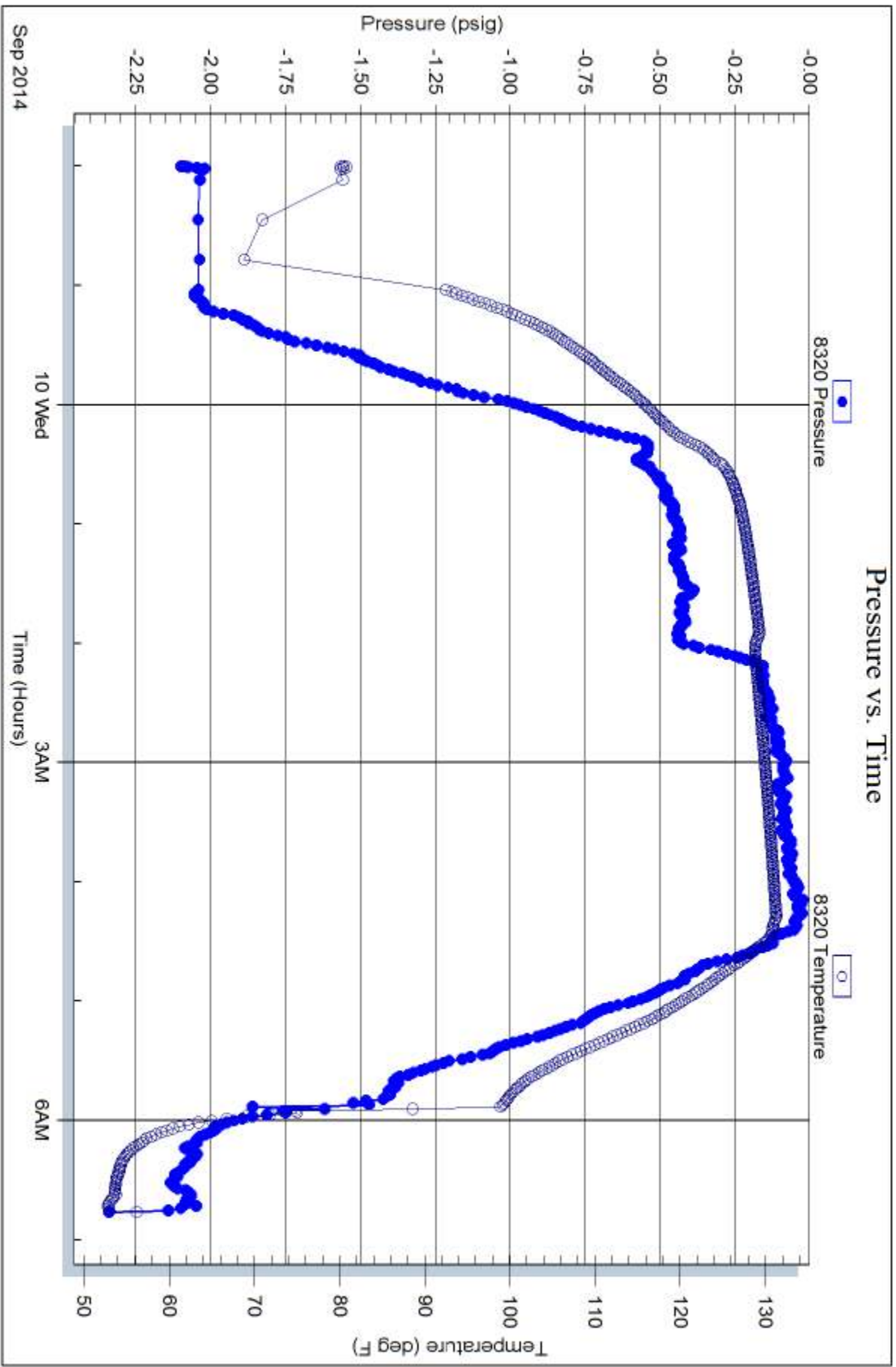
Serial #: 8320

Fluid

Samuel Gary J. & Associates

Fisher Cattle #2-35

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 60071

Printed: 2014.09.10 @ 07:57:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60072

DST#: 6

ATTN: Chris Mitchell

Test Start: 2014.09.10 @ 17:45:00

GENERAL INFORMATION:

Formation: **Lower Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:05:30

Time Test Ended: 02:14:45

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4568.00 ft (KB) To 4598.00 ft (KB) (TVD)

Reference Elevations: 3257.00 ft (KB)

Total Depth: 4598.00 ft (KB) (TVD)

3252.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791 Inside

Press@RunDepth: 17.34 psig @ 4569.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.10

End Date:

2014.09.11

Last Calib.: 2014.09.11

Start Time: 17:45:05

End Time:

02:14:44

Time On Btm: 2014.09.10 @ 20:05:15

Time Off Btm: 2014.09.10 @ 23:48:45

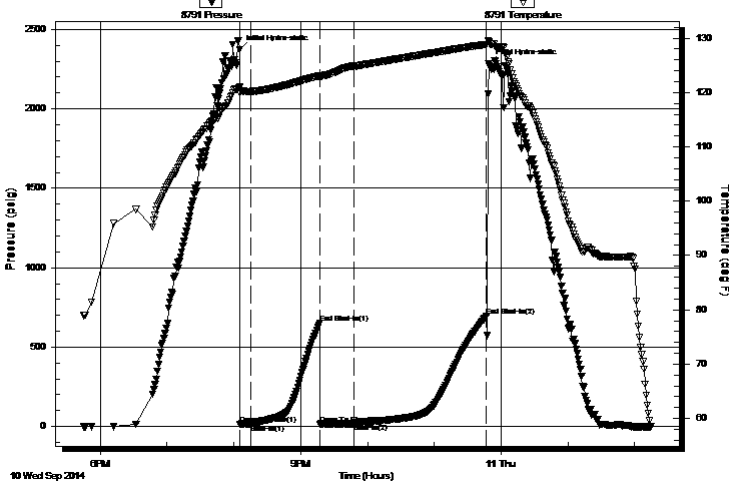
TEST COMMENT: 10 - IF: Blow built to 1/2"

60 - ISI: No blow back

30 - FF: No blow

120 - FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2373.65	120.98	Initial Hydro-static
1	13.35	119.91	Open To Flow (1)
10	16.44	120.20	Shut-In(1)
72	651.10	123.12	End Shut-In(1)
72	15.18	122.78	Open To Flow (2)
103	17.34	124.84	Shut-In(2)
222	694.87	128.87	End Shut-In(2)
224	2284.90	129.31	Final Hydro-static

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

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60072

DST#: 6

ATTN: Chris Mitchell

Test Start: 2014.09.10 @ 17:45:00

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: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 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 = 100 PSI, 2500 mL Mud 100%

Serial #: 8791

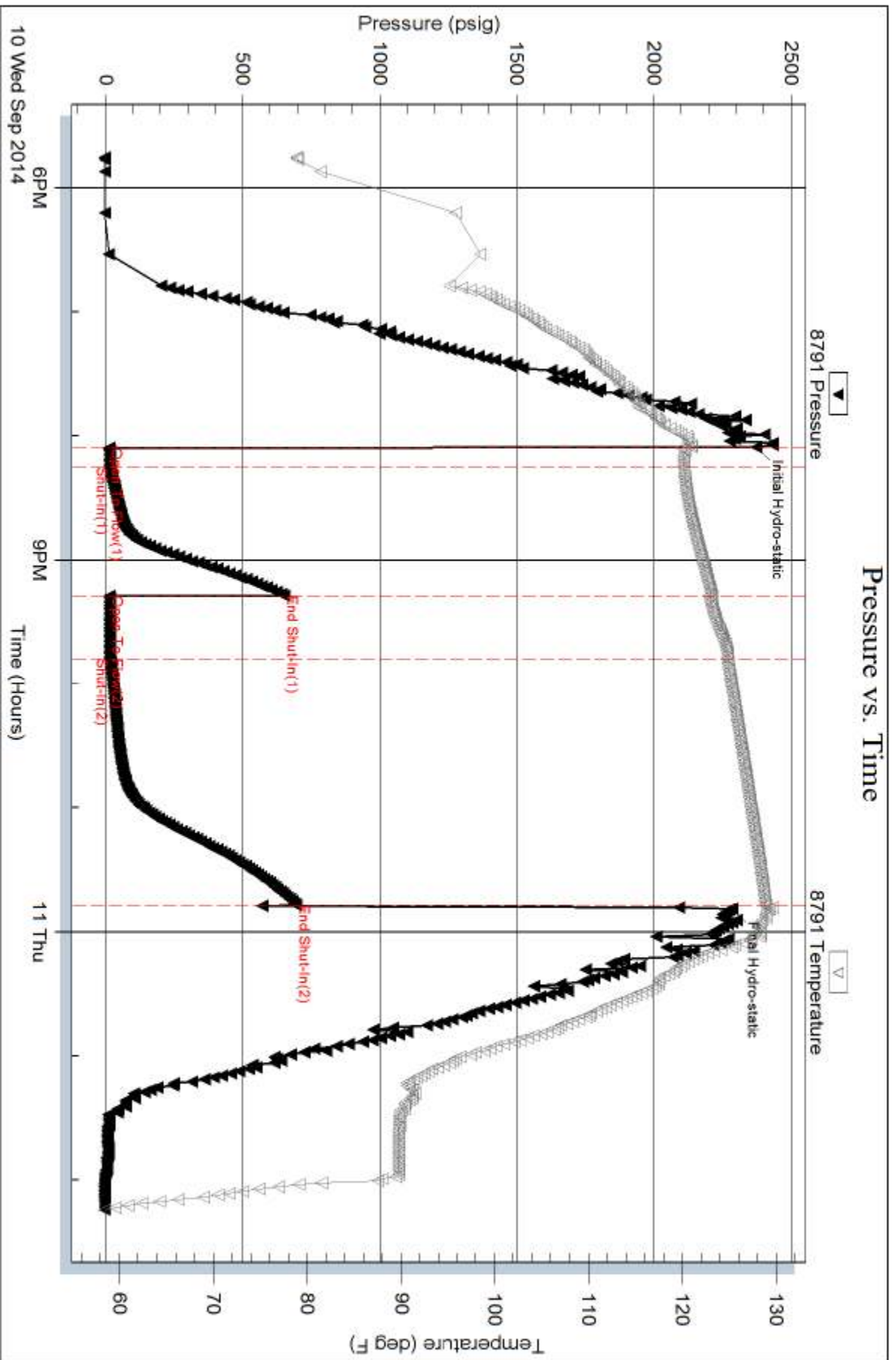
Inside

Samuel Gary Jr. & Associates

Fisher Cattle #2-35

DST Test Number: 6

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 60072

Printed: 2014.09.11 @ 06:52:49

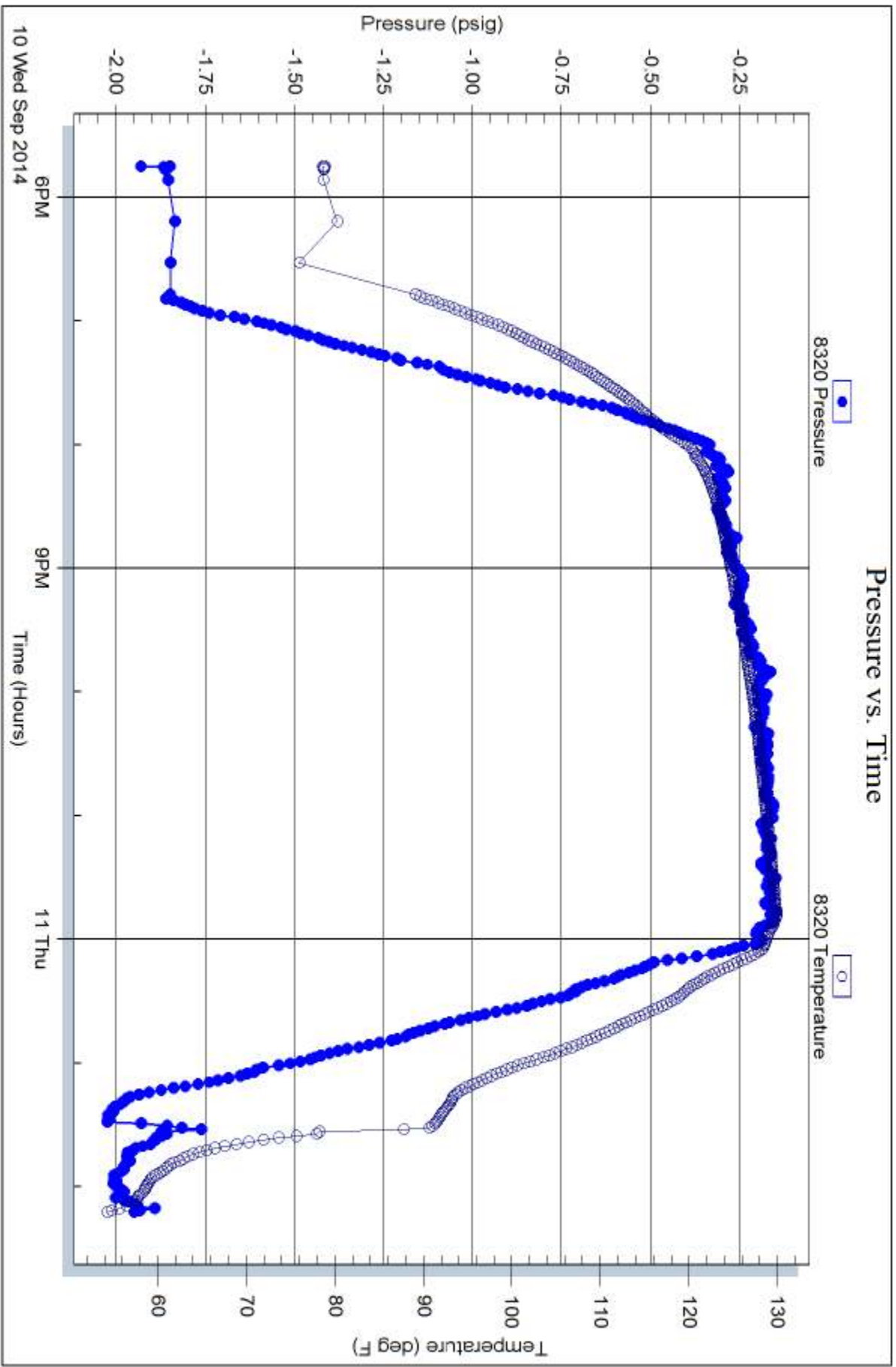
Serial #: 8320

Fluid

Samuel Gary Jr. & Associates

Fisher Cattle #2-35

DST Test Number: 6





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

Well Name: FISHER CATTLE CO 2-35
Well Id:
Location: SEC. 35 2S 36W RAWLINS COUNTY, KANSAS
License Number: 15-153-21050-0000 Region: WILDCAT
Spud Date: SEP. 1, 2014 Drilling Completed: SEP. 12, 2014
Surface Coordinates: 1430 FSL/ 1900 FWL

Bottom Hole
Coordinates:
Ground Elevation (ft): 3252' K.B. Elevation (ft): 3257'
Logged Interval (ft): 3450' To: 4919' Total Depth (ft): 4919'
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: Chris Mitchell

GEOLOGIST

Name: Schuyler Hedrick
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

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60067

DST#: 1

ATTN: Chris Mitchell

Test Start: 2014.09.05 @ 18:25:00

GENERAL INFORMATION:

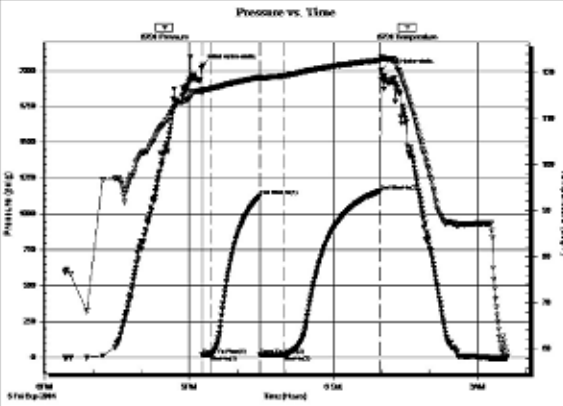
Formation: **Oread**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:16:45
 Time Test Ended: 03:36:15
 Interval: **4042.00 ft (KB) To 4120.00 ft (KB) (TVD)**
 Total Depth: 4120.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 3257.00 ft (KB)
 3252.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 18.80 psig @ 4043.00 ft (KB)
 Start Date: 2014.09.05 End Date: 2014.09.06
 Start Time: 18:25:05 End Time: 03:36:15
 Capacity: 8000.00 psig
 Last Callb.: 2014.09.06
 Time On Btm: 2014.09.05 @ 21:16:30
 Time Off Btm: 2014.09.06 @ 00:59:30

TEST COMMENT: 10 - IF: 1/8" Blow at open, built to 1/4"
 60 - IS: No blow back
 30 - FF: No blow
 120 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2034.70	116.32	Initial Hydro-static
1	14.62	115.58	Open To Flow (1)
11	16.44	116.43	Shut-in(1)
72	1127.59	118.91	End Shut-in(1)
73	17.11	118.56	Open To Flow (2)
102	18.80	119.26	Shut-in(2)
222	1161.08	122.65	End Shut-in(2)
223	2004.18	123.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
7.00	Mud 100%	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60068

DST#: 2

ATTN: Chris Mitchell

Test Start: 2014.09.06 @ 15:42:00

GENERAL INFORMATION:

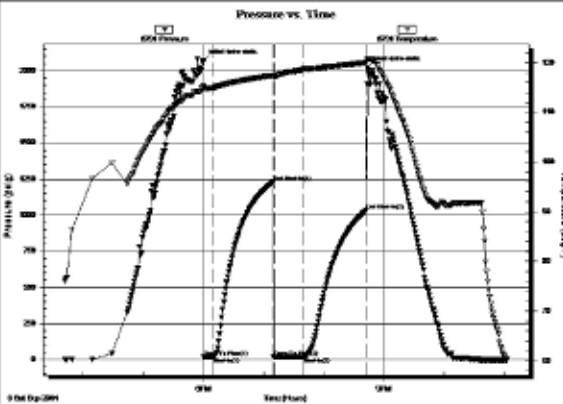
Formation: **LKC "A"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:00:15
 Time Test Ended: 23:02:30
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Interval: 4117.00 ft (KB) To 4187.00 ft (KB) (TVD)
 Total Depth: 4187.00 ft (KB) (TVD)
 Reference Elevations: 3257.00 ft (KB)
 3252.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 18.41 psig @ 4118.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2014.09.06 End Date: 2014.09.06
 Last Callb.: 2014.09.06
 Start Time: 15:42:05 End Time: 23:02:29
 Time On Btm: 2014.09.06 @ 18:00:00
 Time Off Btm: 2014.09.06 @ 20:43:45

TEST COMMENT: 10 - IF: 1/8" Blow at open, built to just over 1/4"
 60 - IS: No blow back
 30 - FF: No blow
 60 - FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2068.10	115.28	Initial Hydro-static
1	15.24	114.66	Open To Flow (1)
10	16.16	114.96	Shut-in(1)
70	1226.30	117.47	End Shut-in(1)
70	16.92	117.08	Open To Flow (2)
100	18.41	118.74	Shut-in(2)
163	1034.00	120.05	End Shut-in(2)
164	2019.81	120.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
6.00	Mud 100%	0.03

* 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

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60069

DST#: 3

ATTN: Chris Mitchell

Test Start: 2014.09.07 @ 09:21:00

GENERAL INFORMATION:

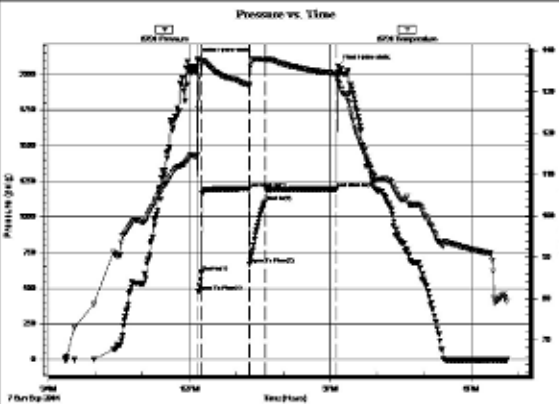
Formation: **LKC "C - D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:11:45
 Time Test Ended: 18:46:00
 Interval: **4185.00 ft (KB) To 4240.00 ft (KB) (TVD)**
 Total Depth: **4240.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 3257.00 ft (KB)
 3252.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 1107.13 psig @ 4186.00 ft (KB)
 Start Date: 2014.09.07 End Date: 2014.09.07
 Start Time: 09:21:05 End Time: 18:46:00
 Capacity: 8000.00 psig
 Last Callb.: 2014.09.07
 Time On Btm: 2014.09.07 @ 12:10:45
 Time Off Btm: 2014.09.07 @ 15:09:45

TEST COMMENT: 5 - F: Blow built to BOB (11") in 45 seconds
 60 - IS: Blow back built to 1 1/4"
 20 - FF: Blow built to BOB in 45 seconds
 90 - FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.20	114.69	Initial Hydro-static
1	474.80	125.82	Open To Flow (1)
5	613.95	137.06	Shut-in(1)
66	1197.56	131.63	End Shut-in(1)
66	666.72	131.59	Open To Flow (2)
86	1107.13	137.79	Shut-in(2)
178	1197.47	134.42	End Shut-in(2)
179	2056.68	132.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1895.00	Water w /slight trace oil 97%w , 3%o	24.89
470.00	MW w /trace oil 54%w , 46%o	6.59

* 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

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60070

DST#: 4

ATTN: Chris Mitchell

Test Start: 2014.09.08 @ 05:45:00

GENERAL INFORMATION:

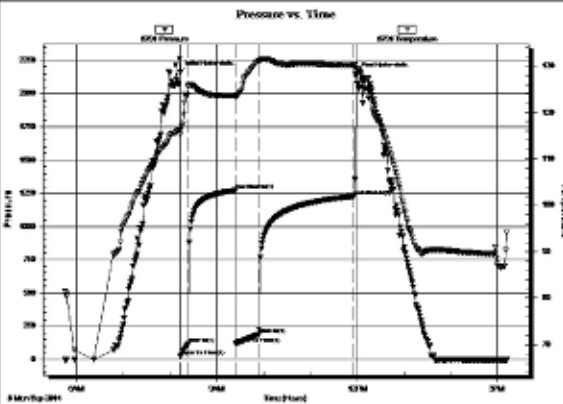
Formation: **LKC "F - G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:13:15
 Time Test Ended: 15:12:30
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Interval: **4236.00 ft (KB) To 4295.00 ft (KB) (TVD)**
 Total Depth: **4295.00 ft (KB) (TVD)**
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 Reference Elevations: 3257.00 ft (KB)
 3252.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 188.08 psig @ 4237.00 ft (KB)
 Start Date: 2014.09.08 End Date: 2014.09.08
 Start Time: 05:45:05 End Time: 15:12:30
 Capacity: 8000.00 psig
 Last Callb.: 2014.09.08
 Time On Btm: 2014.09.08 @ 08:13:00
 Time Off Btm: 2014.09.08 @ 11:58:00

TEST COMMENT: 10 - IF: Blow built to 7 1/2"
 60 - IS: No blow back
 30 - FF: Blow built to BOB (11") in 19 min.
 120 - FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2160.13	116.25	Initial Hydro-static
1	21.26	115.20	Open To Flow (1)
11	116.88	125.61	Shut-in(1)
71	1272.67	123.69	End Shut-in(1)
72	119.25	123.28	Open To Flow (2)
102	188.08	131.21	Shut-in(2)
223	1227.73	130.24	End Shut-in(2)
225	2150.17	129.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
191.00	MOW w /trace oil 78%w, 22%m	0.96
125.00	WOM w /trace oil 71%w, 29%w	1.75
60.00	SOCM 98%w, 2%o	0.84

* 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

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60071

DST#: 5

ATTN: Chris Mitchell

Test Start: 2014.09.09 @ 22:00:00

GENERAL INFORMATION:

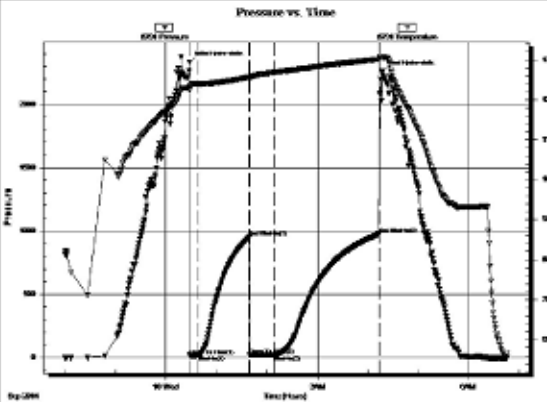
Formation: **Upper Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:28:30
 Time Test Ended: 06:45:15
 Interval: 4507.00 ft (KB) To 4570.00 ft (KB) (TVD)
 Total Depth: 4570.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 3257.00 ft (KB)
 3252.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 19.67 psig @ 4508.00 ft (KB)
 Start Date: 2014.09.09 End Date: 2014.09.10
 Start Time: 22:00:05 End Time: 06:45:15
 Capacity: 8000.00 psig
 Last Callb.: 2014.09.10
 Time On Btm: 2014.09.10 @ 00:28:15
 Time Off Btm: 2014.09.10 @ 04:17:00

TEST COMMENT: 10 - IF: Blow built to almost 1/4"
 60 - IS: No blow back
 30 - FF: No blow
 120 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2330.18	123.42	Initial Hydro-static
1	15.39	122.41	Open To Flow (1)
10	17.15	123.97	Shut-in(1)
71	952.15	125.66	End Shut-in(1)
72	17.45	125.32	Open To Flow (2)
101	19.67	126.86	Shut-in(2)
226	975.58	130.18	End Shut-in(2)
229	2258.86	130.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud 100%	0.02

* 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

35/3s/36w Rawlins KS

1515 Wynkoop STE 700
Denver, CO 80202

Fisher Cattle #2-35

Job Ticket: 60072 DST#: 6

ATTN: Chris Mitchell

Test Start: 2014.09.10 @ 17:45:00

GENERAL INFORMATION:

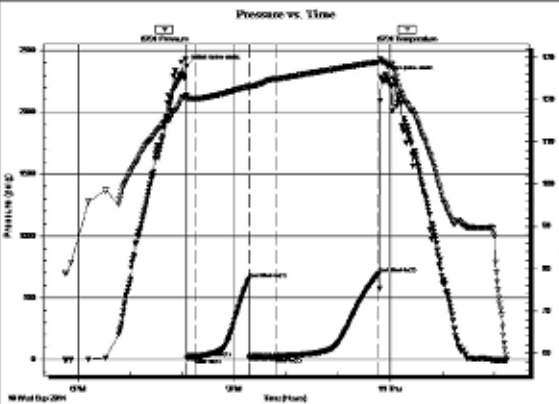
Formation: **Lower Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:05:30
 Time Test Ended: 02:14:45
 Interval: **4568.00 ft (KB) To 4598.00 ft (KB) (TVD)**
 Total Depth: **4598.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 3257.00 ft (KB)
 3252.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 17.34 psig @ 4569.00 ft (KB)
 Start Date: 2014.09.10 End Date: 2014.09.11
 Start Time: 17:45:05 End Time: 02:14:44
 Capacity: 8000.00 psig
 Last Callb.: 2014.09.11
 Time On Btm: 2014.09.10 @ 20:05:15
 Time Off Btm: 2014.09.10 @ 23:48:45

TEST COMMENT: 10 - IF: Blow built to 1/2"
 60 - IS: No blow back
 30 - FF: No blow
 120 - FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2373.65	120.98	Initial Hydro-static
1	13.35	119.91	Open To Flow (1)
10	16.44	120.20	Shut-in(1)
72	651.10	123.12	End Shut-in(1)
72	15.18	122.78	Open To Flow (2)
103	17.34	124.84	Shut-in(2)
222	694.87	128.87	End Shut-in(2)
224	2284.90	129.31	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

Ref. No: 60072

Printed: 2014.09.11 @ 10:19:27

ROCK TYPES

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol

- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol

- Shgy
- Slstt
- Ss
- Till
- Carb sh
- Dol
- Dtd
- Gry sh

- Sandylms
- Shale
- Slststn
- Shlyslts
- Sltysh
- Lms

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
- Sltly

FOSSIL

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

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

STRINGER

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

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

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

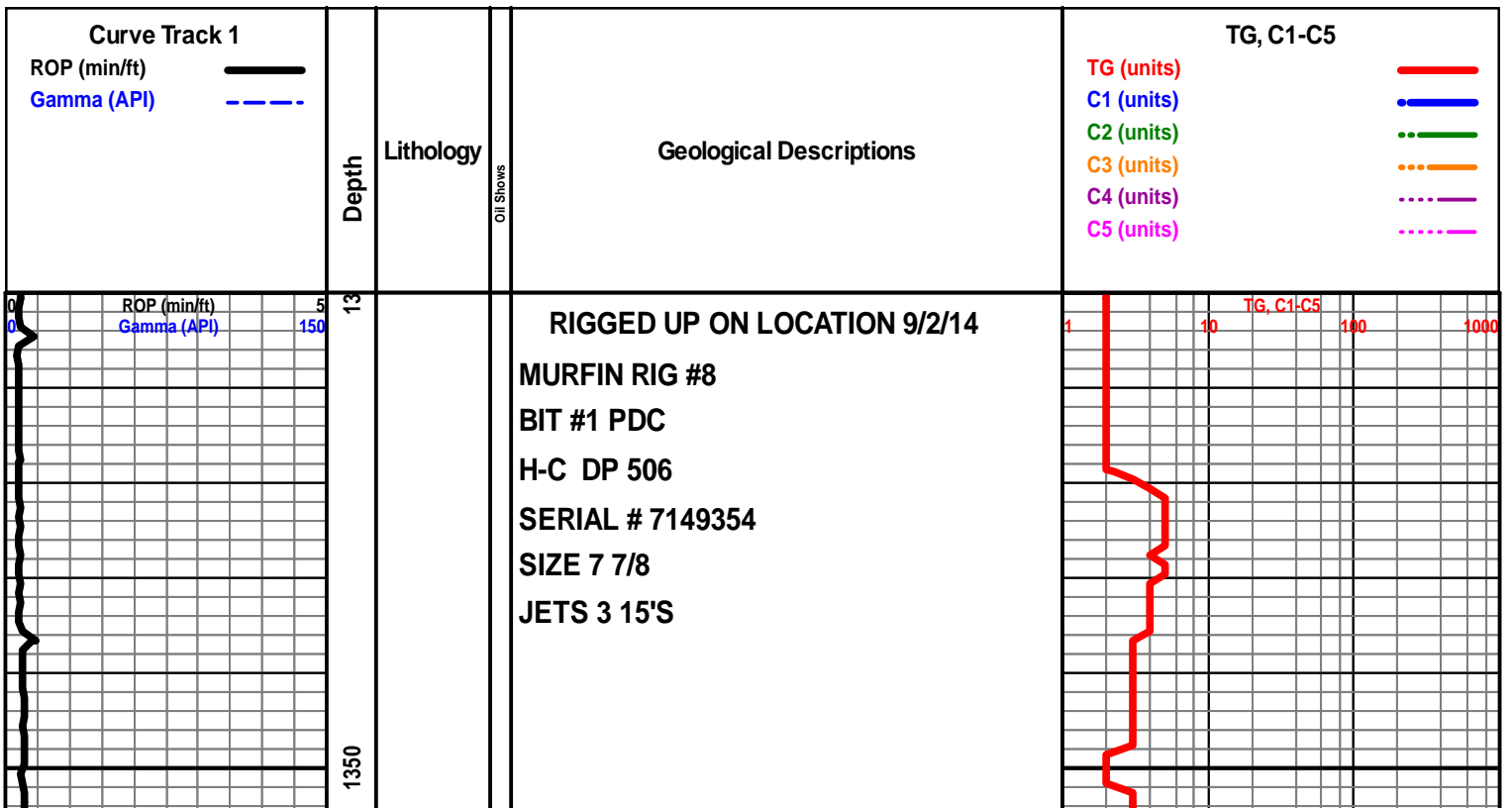
- Even
- Spotted
- Ques
- Dead
- Gas show

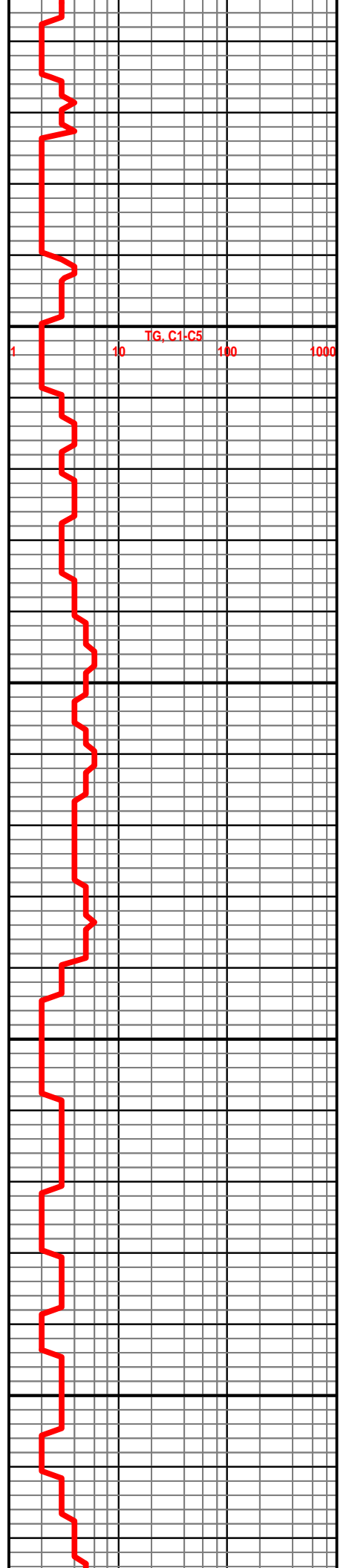
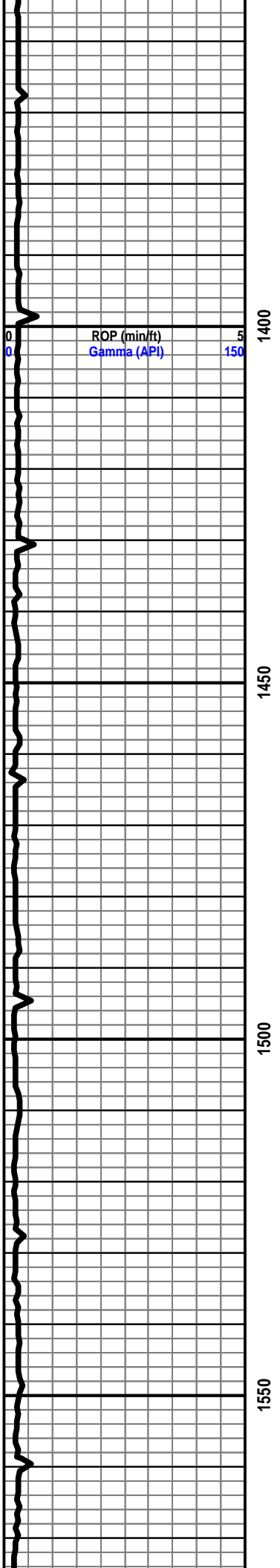
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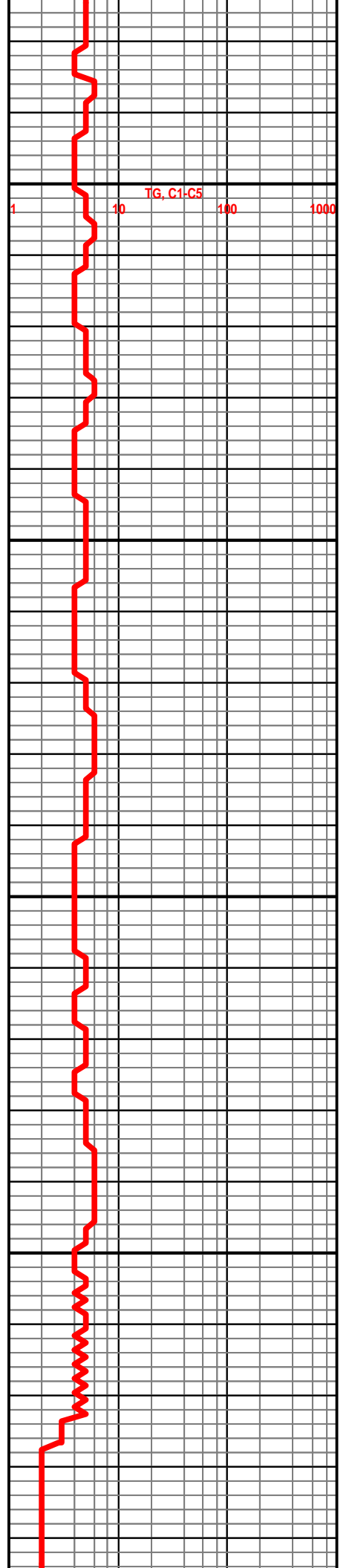
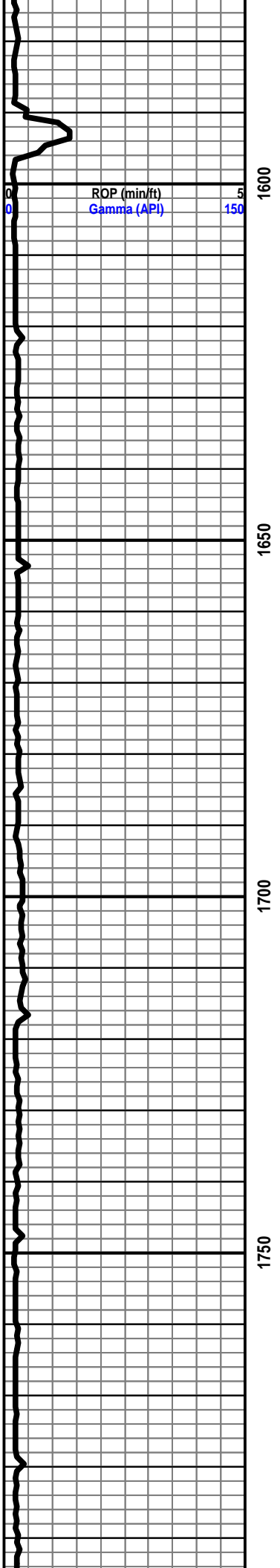
- Core
- Dst
- Dst

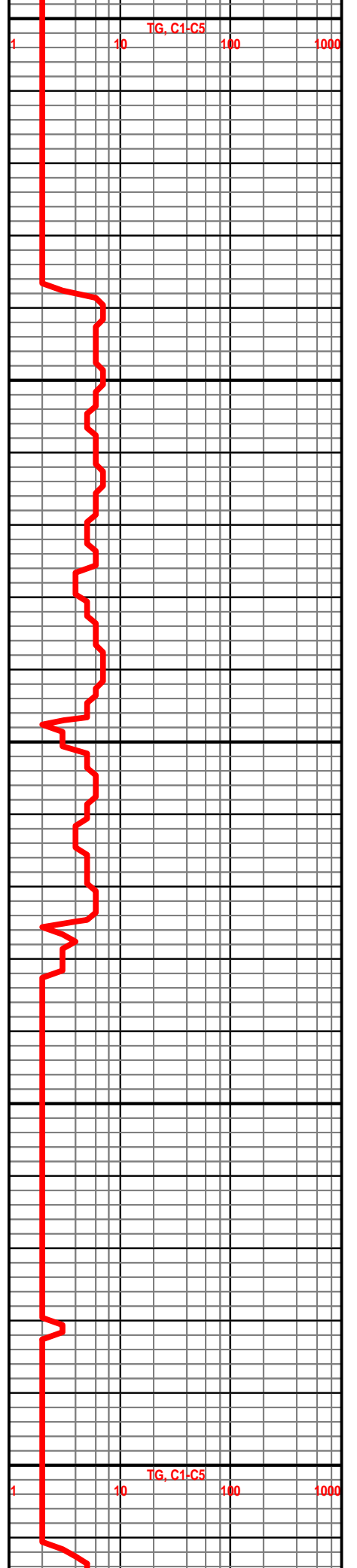
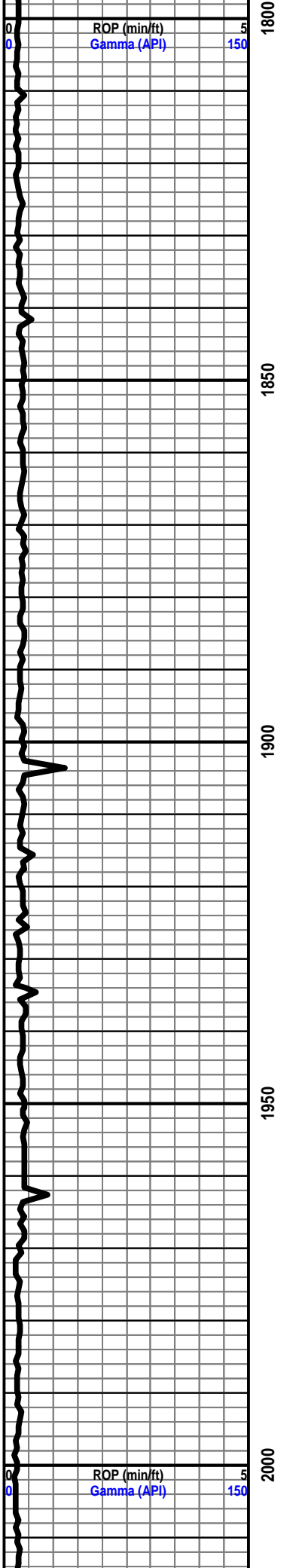
EVENTS

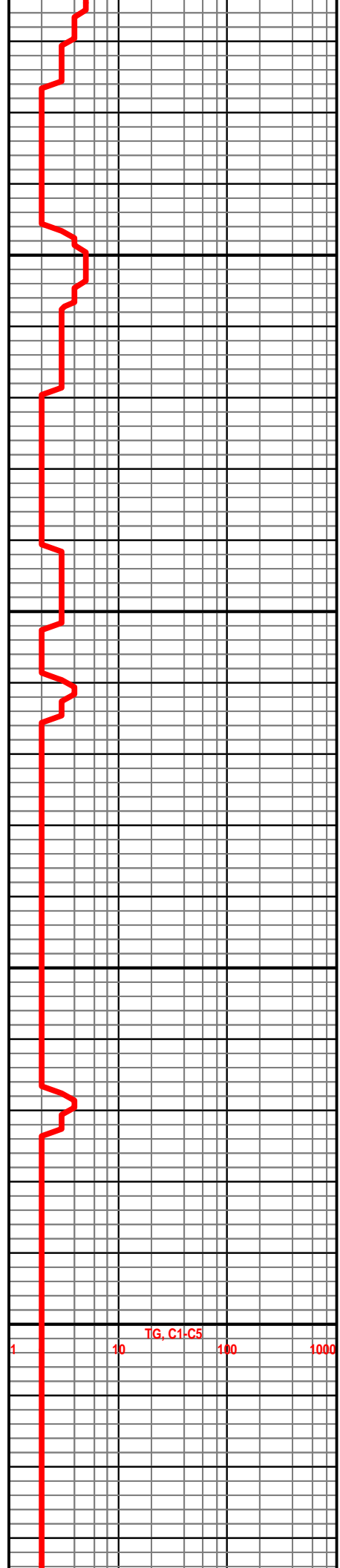
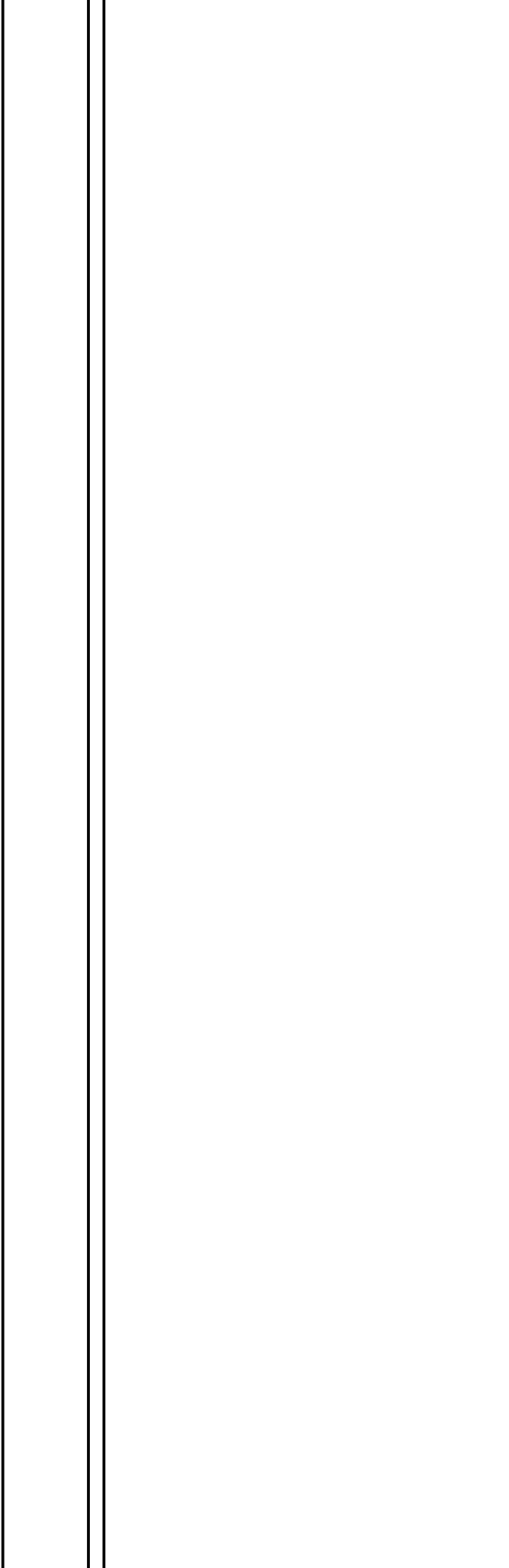
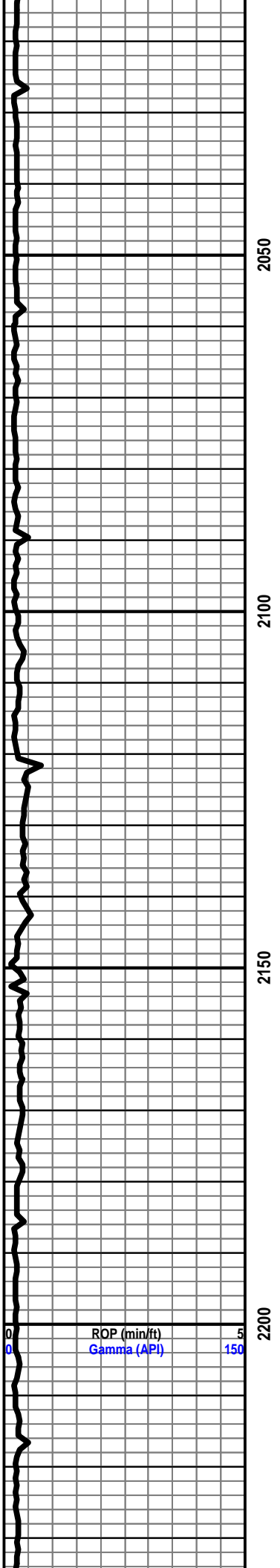
- Rft
- Sidewall

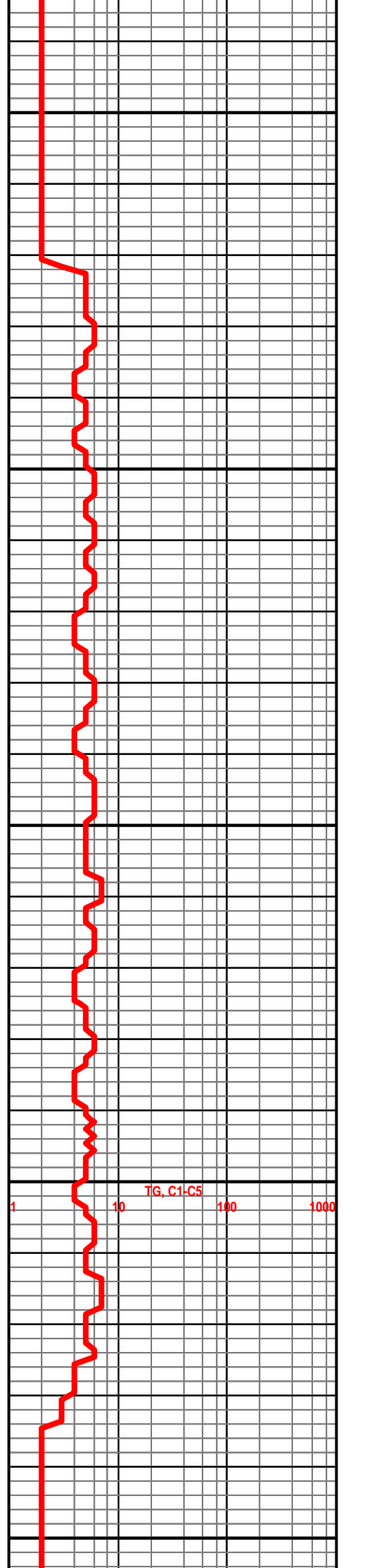
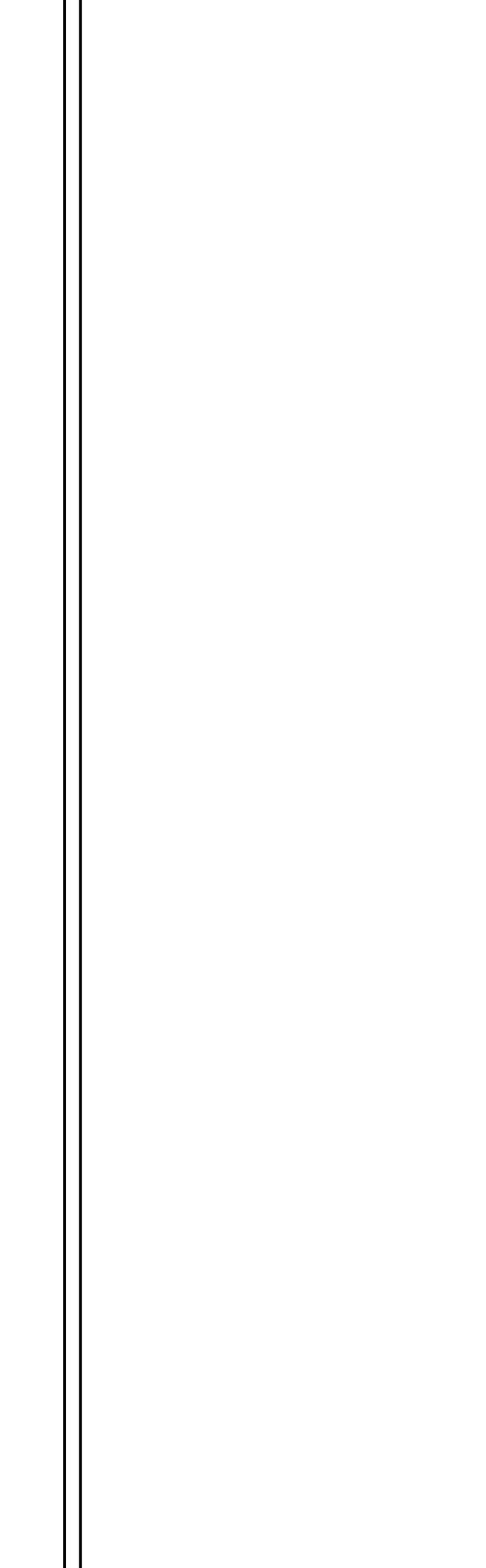
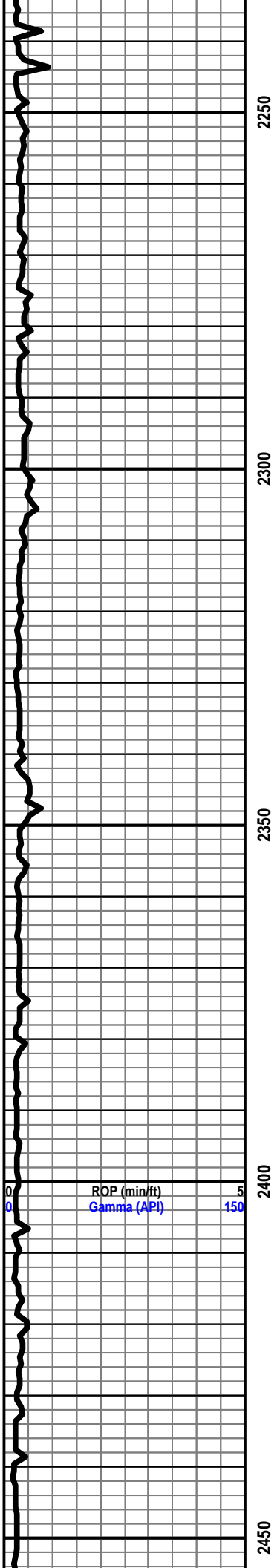


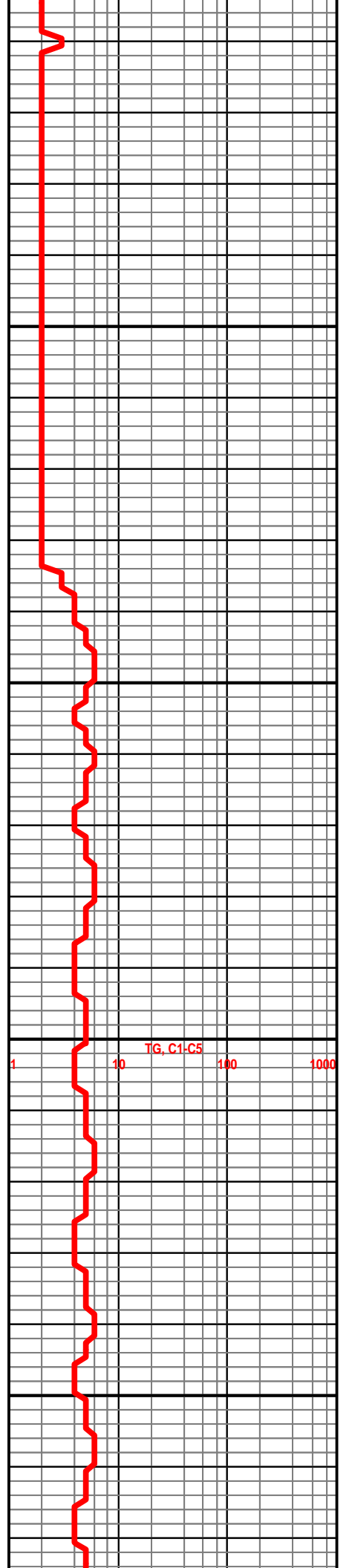
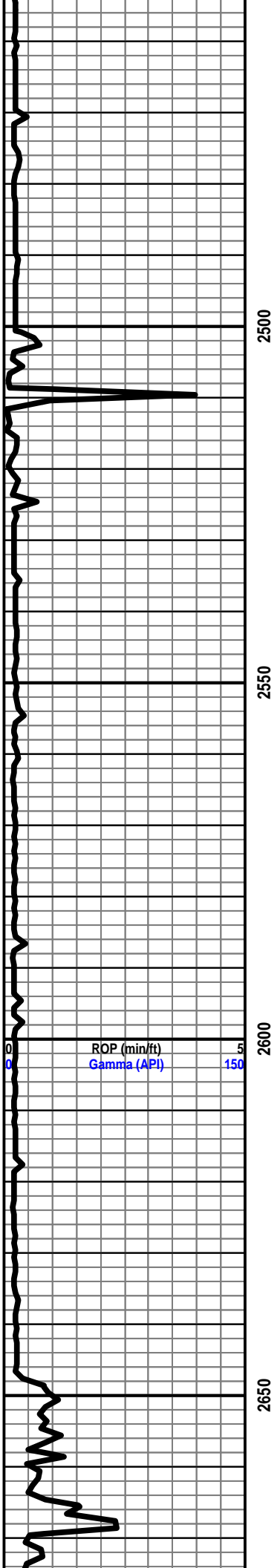


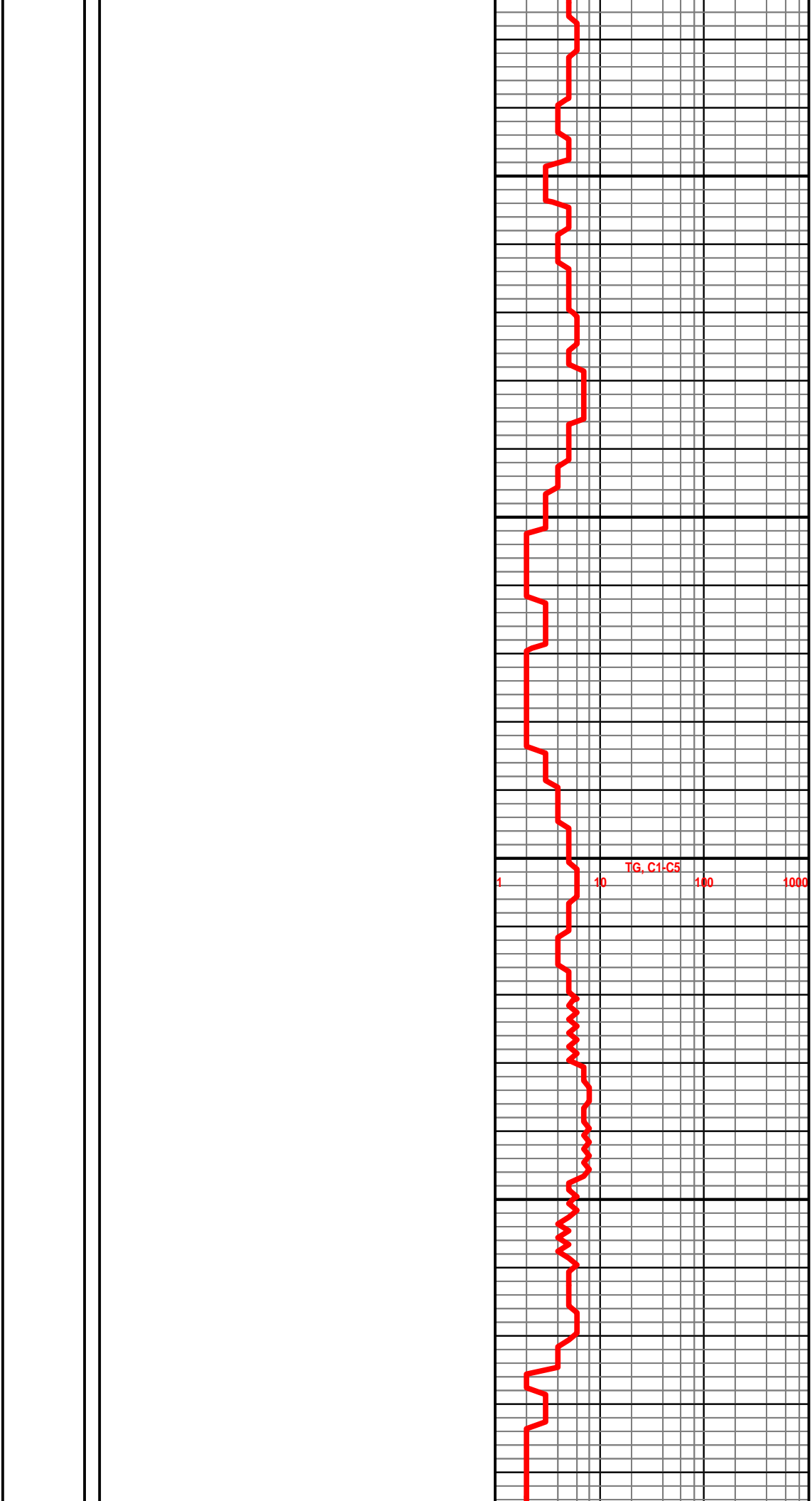
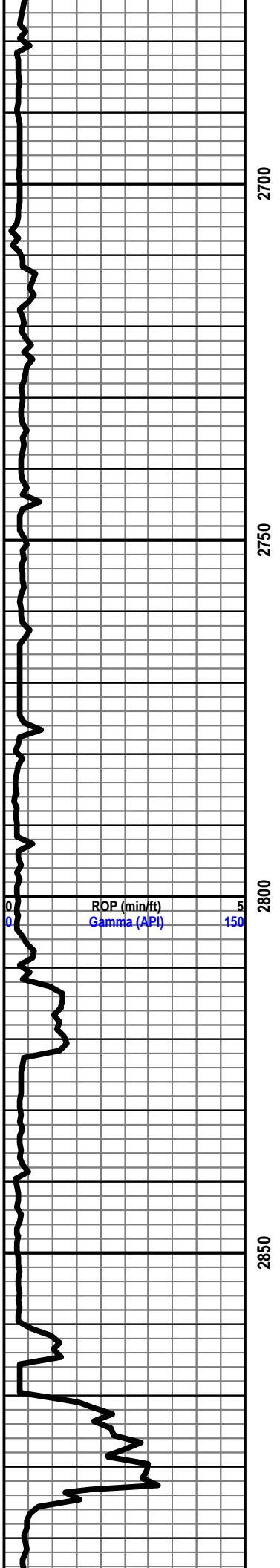


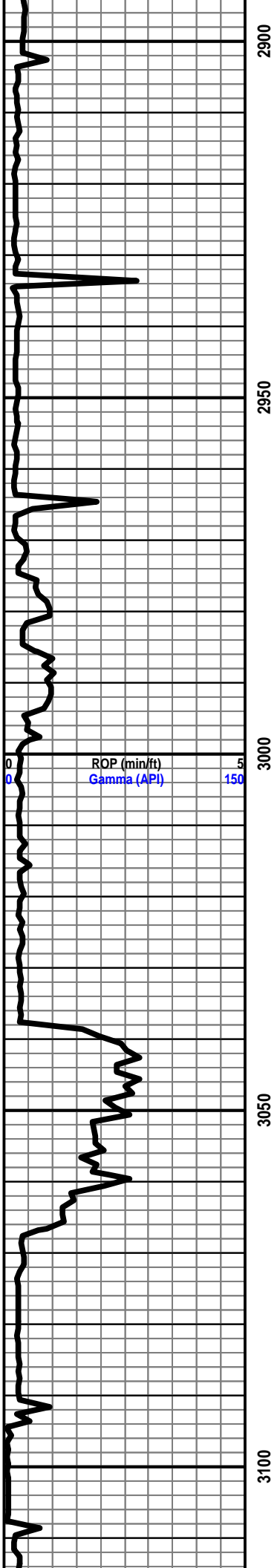












2900

2950

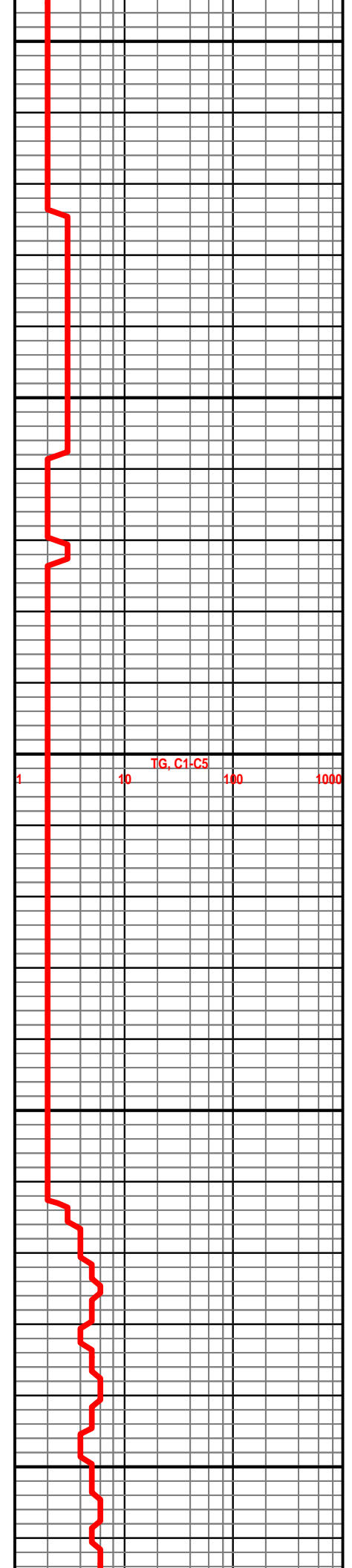
3000

3050

3100

STONE CORRAL 3038' (219')

DISPLACEMENT @ 3102'

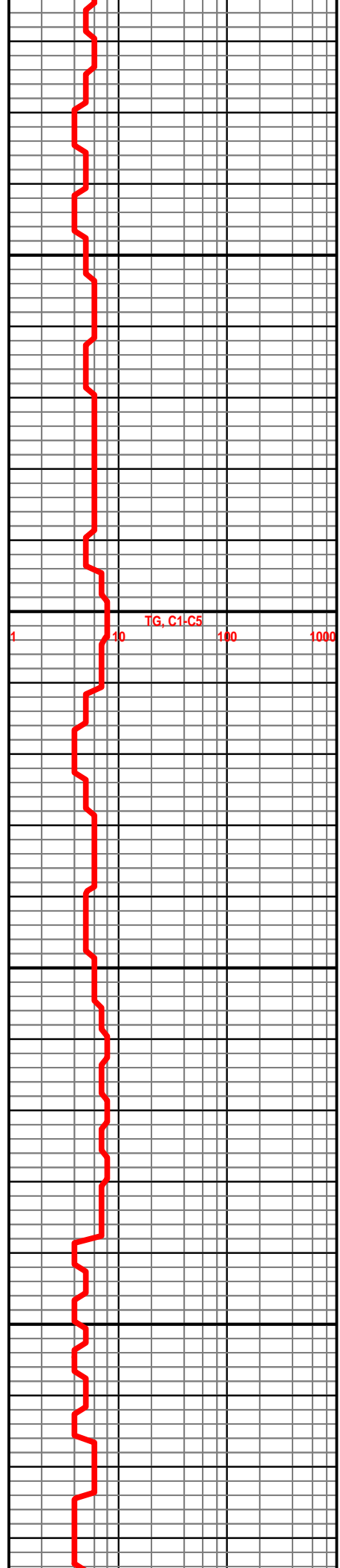
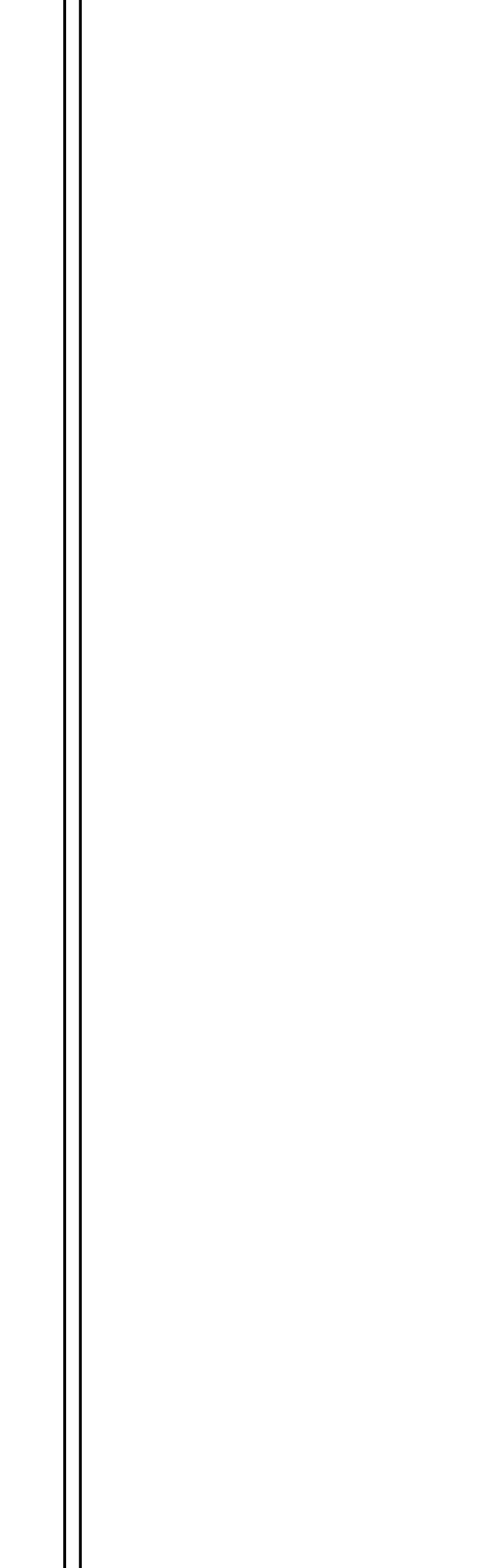
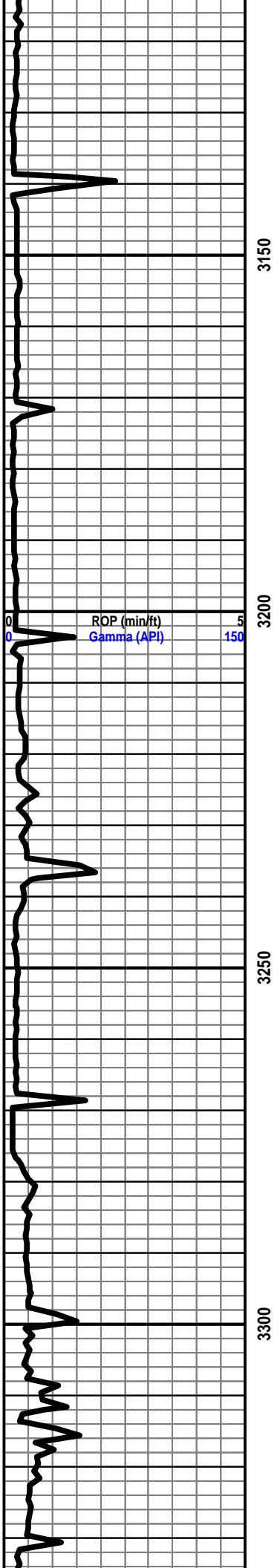


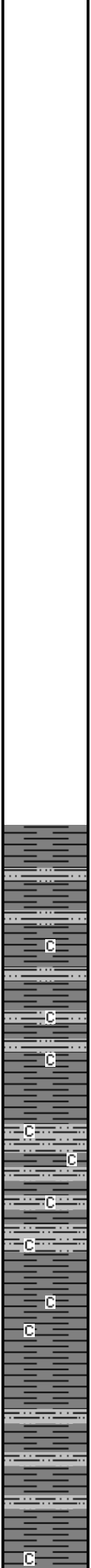
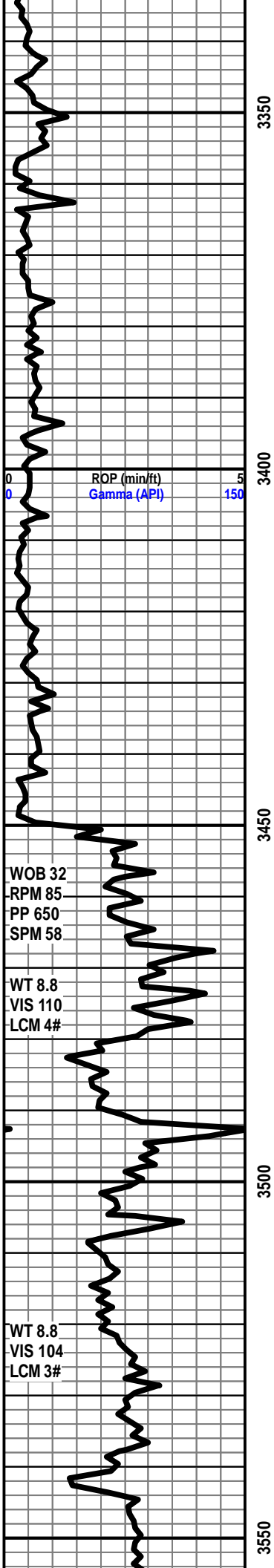
1

10

100

1000





BIT #2 TRICONE
SERIAL # 5242088
SIZE 7 7/8
JETS 3 15'S

BIT TRIP @ 3450'
START 24 HR. MANNED UNIT 9/4/14

WOB 32
RPM 85
PP 650
SPM 58

WT 8.8
VIS 110
LCM 4#

WT 8.8
VIS 104
LCM 3#

SH- RD, V GMMY TO SFT, V GRNY TXT

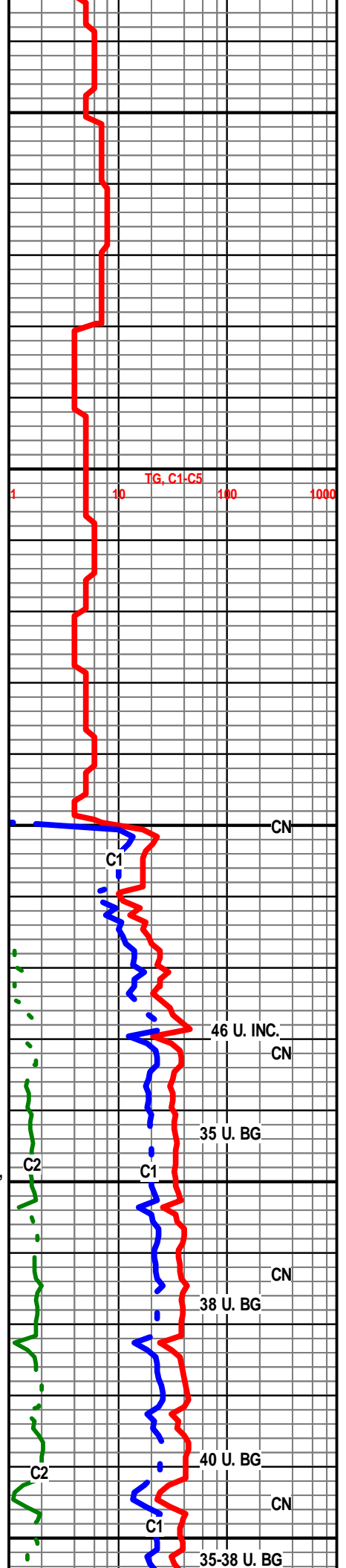
SH- RD TO DK RD GRN, SFT TO V GMMY, SLTY TXT, IMBD V/V/F-GRNS THRU, HVY TR SFT WHT CHLK, TR GRN CLY

SLSTN- OFF WHT TO LT RD, SFT, IMBD V/V/F-GRNS THRU, HVY TR SFT WHT CHLK, ABDT LT RD TO RD SH THRU, V GMMY, SLTY TXT

SH- LT RD TO RD GRN, SFT TO V GMMY THRU, V SLTY TXT, IMBD V/V/F-GRNS THRU, TR SFT WHT CHLK

SH- RD TO DK RD, V GMMY TO SFT FRM IP, V SLTY TXT, IMBD V/V/F-GRNS, TR INTERBD SLTSTN

SH- DK RD TO RD GRN, SFT TO GMMY FRM IP, V SLTY



TXI, IMBD V/V/F-GRNS THRU, HVY TR SFT TO FRM WHT
CHLK, TR GRN CLY

NEVA 3569' (-312')

LS- OFF WHT TO CRM, HD DNS TO TR BRTT IP, VF/F-XLN,
MD-XLN IP, S-SUCRO IP, SCAT IMBD CALC-XLS, HVY TR
SFT WHT CHLK, SLI TR IMBD RD SH, V SLI TR IMBD PYR,
TR DLL YEL TO YEL MIN FLO IP, NO VIS POR, NO VIS
CUT OR SHOW,

SH- RD TO LT BRN GY MOTT, SFT TO FRM IP, V SLTY TXT
TO SLI SMTH IP, IMBD V/V/F-GRNS IP, SLI TR SFT WHT
CHLK

SLTSTN- OFF WHT TO GY, HD TT TO FRI, IMBD
V/V/F-GRNS THRU, CALC-IP, HVY TR SFT WHT CHLK, TR
INTERBD RD GMMY SH

SLSTN & SH- OFF WHT TO LT GY RD, HD TT, IMBD
V/V/F-GRNS THRU, HVY TR INTER-BD RD SH'S

LS- OFF WHT TO LT GY, HD DNS TO TR BRTT IP,
VF/F-XLN, S-SUCRO, WHTRD IP, HVY TR TN & ORNG
CHRT THRU TRAY, HVY TR SFT WHT CHLK THRU, NO VIS
FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- RD TO LT RD BRN, SFT TO FRM IP, V SLTY TXT, HVY
TR SFT WHT CHLK, TR GRN CLY

SH- RD TO LT RD, SFT TO FRM IP TR GMMY, V SLTY TXT,
TR INTERBD SLTS

SLTSTN- LT GY TO GY OFF WHT RD, HD TT, IMBD
V/V/F-GRNS THRU, CALC-IP, HVY TR RD SH THRU

FORAKER 3694' (-437')

LS- OFF WHT TO CRM LT GY IP, HD DNS, VF/F-XLN,
S-CHLKY IP, IMBD CALC-XLS, SLI DOLO IP, HVY TR SFT
WHT CHLK THRU, TR DLL YEL MIN FLO IN 20%, NO VIS
POR, NO VIS CUT OR SHOW

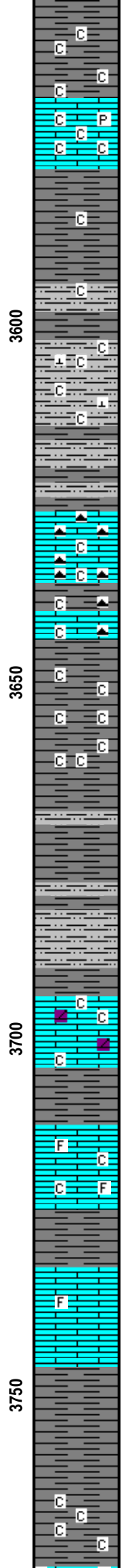
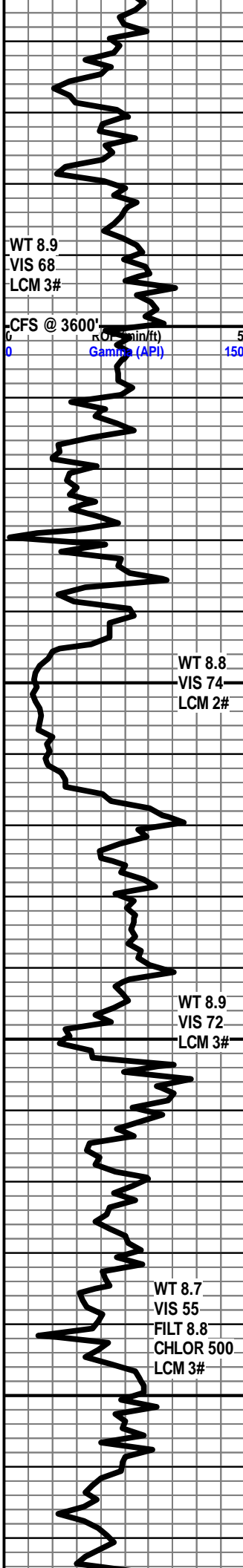
LS- LT GY TO GY OFF WHT, HD DNS TO BRTT IP,
VF/F-XLN, S-CHLKY, TR IMBD SM FOSS FRGS IP, V DLL
YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- WHT TO OFF WHT GY, HD DNS, VF/F-XLN,
CRYPTO-XLN IP, TR IMBD LG CALC-XLS, SLI TR IMBD SM
FOSS FRGS IP, DLL YEL MIN FLO IP, NO VIS POR, NO VIS
CUT OR SHOW

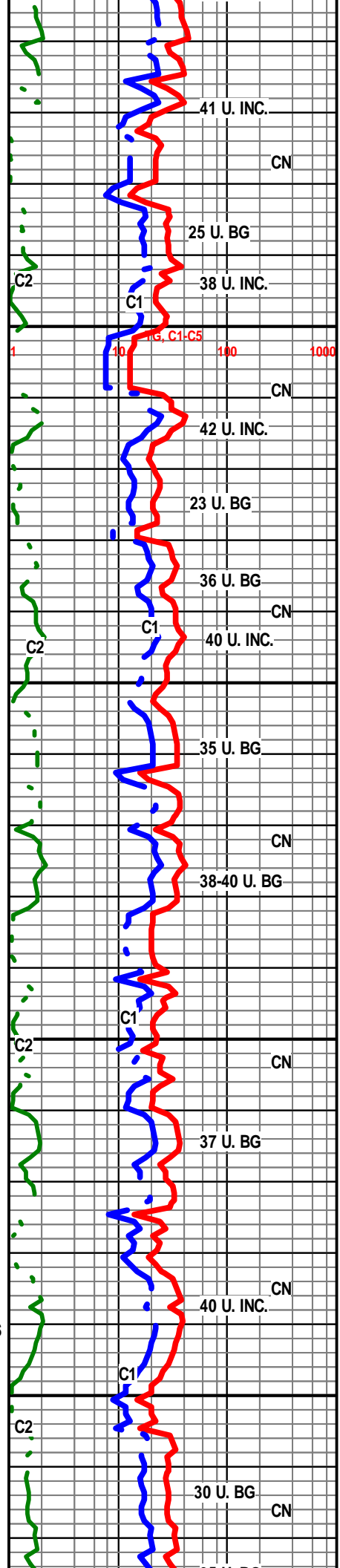
SH- GY TO DK GY RD, V FRM TO SFT IP GMMY, BLKCY
SLTY TXT

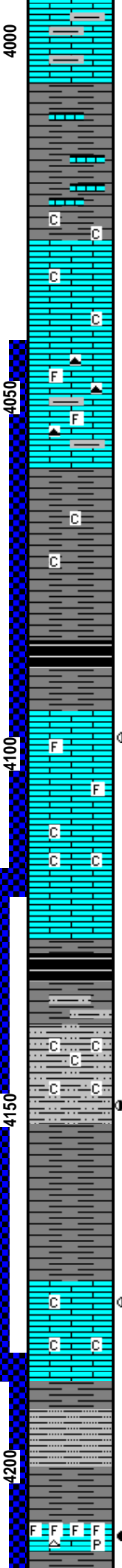
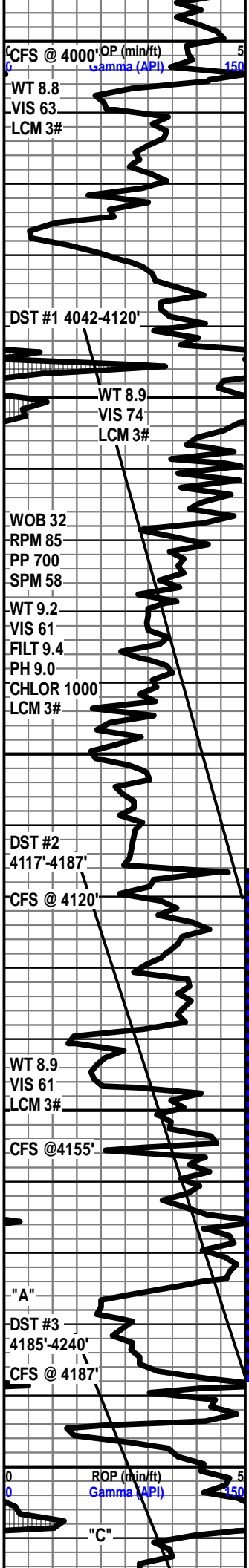
SH- DK RD TO RD, V SFT TO V GMMY THRU, BLKCY, V
SLTY TXT, HVY TR SFT WHT CHLK THRU

LS- OFF WHT TO CRM, HD DNS TO BRTT IP, VF/F-XLN,



Textual descriptions of geological units and lithology, including lithological symbols (C, P, F, G) and stratigraphic labels (C1, C2).





DLL YEL TO YEL MIN FLO IN 40%, NO VIS POR, NO VIS CUT OR SHOW

SH- RD TO DK RD, V SFT TO FRM IP, BLCKY SLTY TXT, TR INTER-BD LS

LS- OFF WHT TO CRM LT GY IP, V HD DNS, CRYPTO/VF-XLN, S-CHLKY IP, TR IMBD SFT WHT CHLK, V DLL YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO WHT LT GY IP, V HD DNS, CRYPTO/VF-XLN, TR IMBD SM FOSS FRGS IP, TR TN CHRT, TR IMBD LMNT SH IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- MD GY TO DK GY, SFT TO FRM, BLCKY, GRNY TXT TO SMTH IP, TR SFT WHT CHLK IP

SH- BLCK SFT CARB, W/ GY TO DK GY, FRM TO SFT, BLCKY, SMTH TXT TO SLTY IP

4095'-4101' LS- OFF WHT TO WHT (W/ DK TN TO BRN OIL STIN IN 20%-30%), HD DNS TO BRTT IP, MD/F-XLN, RE-XLN, S-SUCRO IP, SCAT IMBD LM GRNS, TR IMBD SM CALC-XLS IP, SLI TR IMBD FOSS FRGS, YEL GLD FLO IN 20%, SPTTD BRT YEL GLD FLO IP, V PR TO PR TR FR VIS MICRO VUG POR IN 1%-2%, TR FR INTER-XLN POR IN 1%, GD FLSH CUT, GD SLW STRM IN 40%, DK TN TO BRN LCH ON DSH, NO OIL ODOR

LS- OFF WHT TO WHT LT GY IP, HD DNS, VF/F-XLN, S-CHLKY IP, TR ORNG & CLR CHRT IN TRAY, DLL YEL TO YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

HEEBNER 4125' (-868')

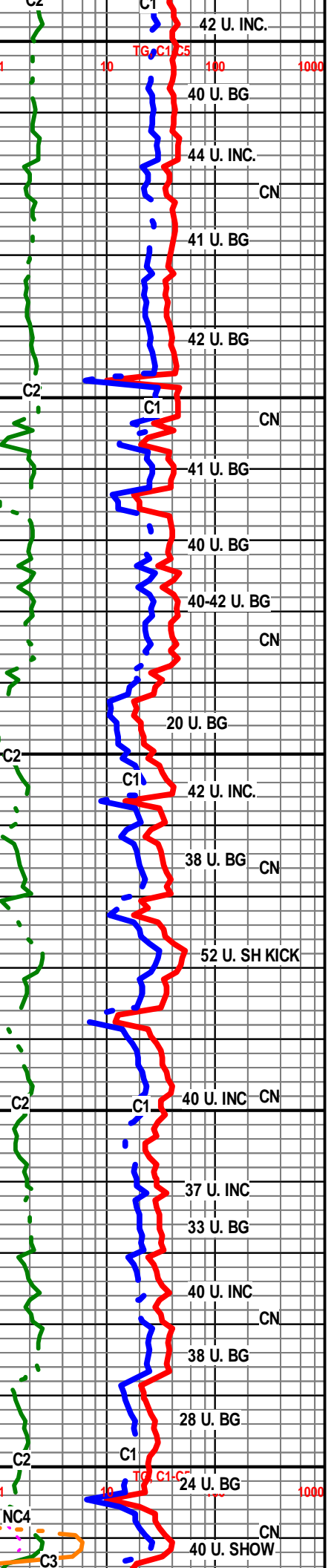
SH- BLCK SFT CARB

4149'-4151' SLTSTN- OFF WHT TO WHT (W/ BLCK TAR STAIN IN 20%), HD TT, ABDT IMBD V/V/F-GRNS THRU, RND GRNS, V CALC, TR IMBD SFT WHT CHLK, TR FREE CALC-XLS IN TRAY, SLI TR PYR, NO VIS FLO, TR V PR INTER-GRN POR IP, GD INST FLSH CUT, GD SLW STRM IN 30%, NO VIS LCH ON DSH, NO OIL ODOR

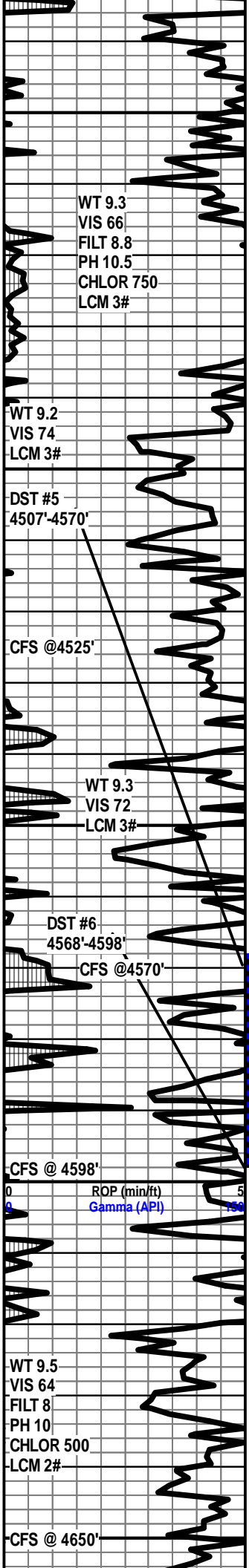
LANSING 4175' (-918')

4176'-4179' LS- CRM TO LT TN OFF WHT IP (W/ BRN TO BLCK OIL STN IN 40%), HD DNS TO BRTT IP, F/MD-XLN, RE-XLN IP, TR IMBD SM CLR QRTZ GRNS, IMBD LM GRNS IP, SLI TR SFT WHT CHLK, DLL YEL GLD FLO IN 40%, YEL GLD FLO SCAT IN 10%, PR TO FR FR MICRO-VUG POR IN 2%-3%, PR INTER-XLN POR IN 2%, GD INST FLSH CUT, EXCEL SLW STRM THRU, BRN LCH ON DSH, NO OIL ODOR

4209'-4212' LS- LT BRN TO BRN WHT IP (DUE TO OIL STN IN 80%), HD DNS TO TR BRTT IP, MD-XLN, RE-XLN MTRX, SUCRO, ABDT IMBD FOSS FRGS THRU, TR IMBD CALC-XLS IP, SLI TR IMBD WHT CHRT IP, TR IMBD PYR CLSTRS IP, YEL GLD FLO IN 40%, BRT YEL GLD FLO IN 10%, PR VIS INTER-FOSS POR IN 3%, FR TO GD VIS INTER-FOSS POR IN 1%, FR MICRO-VUG POR IN 1%, INST RNG CUT, EXCEL SLW STRM THRU, BRN LCH ON DSH, V STRNG OIL ODOR, FREE FLOATING OIL IN SAMP CUP



LANSING "D" ZONE 4216' (-950')



S-CHLKY, HVY TR SFT WHT CHLK THRU, TR IMBD FOSS FRGS IP, SLI TR IMBD SM CALC-XLS, DLL YEL TO YEL MIN FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

SH- RD TO DK RD GRN, GMMY TO SFT, BLCKY TO SPLNTY, SMTH TXT, TR SFT WHT CHLK IN TRAY

LS- OFF WHT TO LT GY RD, HD DNS, VF/F-XLN, TR IMBD RD & GY SH IP, TR SFT WHT CHLK, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- MD GY TO GY, V FRM TO SFT IP, BLCKY, SLTY TXT, IMBD SFT WHT CHLK, V CALC

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

SH- RD GRN GY MOTT, SFT TO FRM IP, BLCKY TO SPLNTY IP, SLTY TXT, TR PYR CLSTRS, CALC-IP

LS- OFF WHT TO CRM LT TN IP, HD DNS TO BRTT, MD-XLN, RE-XLN, S-CHLKY, ABTD IMBD SM FOSS FRGS THRU, TR SCAT IMBD CALC-XLS IP, TR SFT TO FRM WHT CHLK IN TRAY, DLL YEL MIN FLO SCAT IN 30%, TR PR INTER-XLN POR IP, NO VIS CUT OR SHOW

LS- LT GY TO OFF WHT, HD DNS TO BRTT IP, VF/F-XLN, S-CHLKY, IMBD GY SH THRU, SCAT IMBD V//F-GRNS IP, HVY TR GMMY WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR. NO VIS CUT OR SHOW

LABETTE SHALE 4534' (-1277')

4553'-4556' LS- WHT TO OFF WHT (LT BRN TO BRN OIL STN IN 40%), HD DNS TO BRTT, MD/F-XLN, RE-XLN, S-SUCRO, HVY TR IMBD FOSS FRGS THRU, TR IMBD SFT WHT CHLK IP, BRT YEL GLD FLO IN 30%, DLL YEL FLO IN 20%, PR TO TR FR INTER-FOSS POR IN 2%, SCAT FR VUG POR IN 1%, GD FLSH CUT, GD SLW STRM IN 50%, DK TN LCH ON DSH, NO OIL ODOR

LS- CRM TO LT TN, HD DNS TO BRTT, MD-XLN, V S-CHLKY, ABTD SFT WHT CHLK THRU TRAY, HVY TR IMBD FOSS FRGS THRU, TR PYR IN TRAY, DLL YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

SH- RD TO GRN GY MOTT, SFT TO FRM IP, SPLNTY, SLTY TXT IP, HVY TR PYR THRU

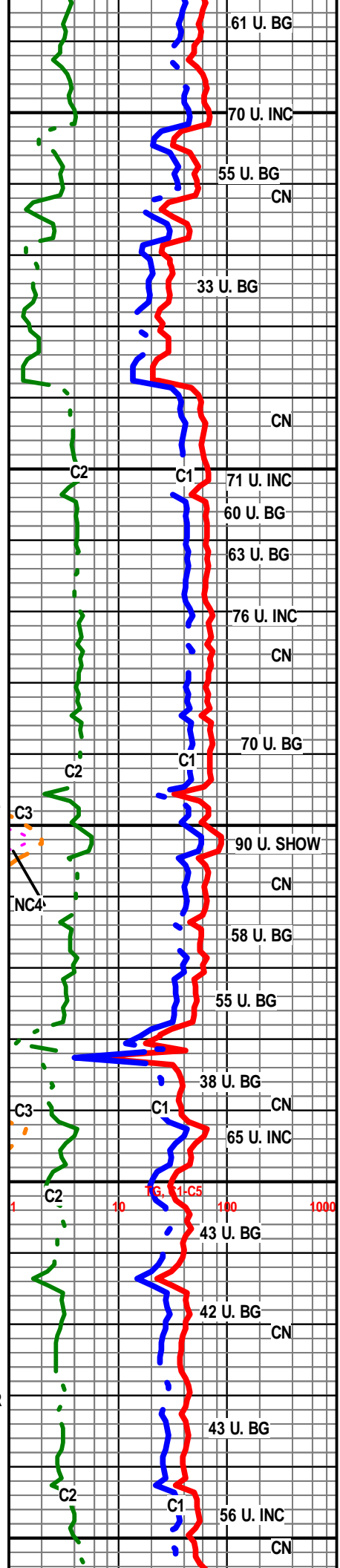
4591'-4593' LS- OFF WHT TO CRM (W/LT TN OIL STN IN 10% & DK BRN OIL STN IN 20%), HD DNS, VF/F-XLN, S-SUCRO, TR IMBD CALC-XLS IP, SLI TR TN CHRT IN TRAY, YEL TO BRT YEL GLD FLO IP, PR INTER-XLN POR IN 1%, TR FR MICRO VUG POR IP, WK FLSH CUT, FR SLW STRM IN 20%, NO LCH ON DSH, NO OIL ODOR (3 ROCKS)

FORT SCOTT 4603' (-1346')

LS- OFF WHT TO LT GY, HD DNS, VF/F-XLN, RE-XLN IP, S-CHLKY, TR IMBD SM FOSS FRGS IP, HVY TR SFT TO FRM WHT CHLK IN TRAY, DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO LT TN OFF WHT IP, HD DNS TO TR BRTT IP, VF/F-XLN, S-CHLKY, ABTD SFT WHT CHLK THRU TRAY, TR IMBD CALC-XLS IP, SLI TR CLR & ORNG TRANS CHRT IN TRAY, DLL YEL TO YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN TO CRM, V HD DNS, VF/F-XLN, S-CHLKY, IMBD FOSS FRGS IP, TR CLR CHRT, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW



CHEROKEE SHALE 4655' (-1398')

SH- BLCK SFT CARB, W/ DK GY TO GY GRN, SFT TO GMMY, SPLNTY, SMTH TXT

SH- RD TO DK RD GRN GY IP, GMMY TO SFT, TR PYR CLSTRS, TR LS INTER-BDS

SH- GRN TO GY MOTT, SFT TO FRM IP, SPLNTY SMTH TXT, ABDT UNCONSOLIDATED CLR TO FRSTY S-RND TO S-ANG MD TO LG QRTZ GRNS, IMBD FN QRTZ GRNS IP

SHLYSLTS- RD TO DK RD, GMMY TO SFT, V SLT TXT, TR PRED UNCONSOLIDATED V/V/F-GRNS IN TRAY, TR SS CLSTRS, TR CLR CHRT IP

SHLYSLTS- RD TO LT BRN, V GMMY THRU, HVY TR PRED UNCONSOLIDATED V/V/F-GRNS THRU TRAY

SHLYSLTS- RD LT BRN PRP GRN YEL MOTT, SFT TO FRM, BLCKY, V SLTY TXT, IMBD V/V/F-GRNS THRU, TR PRED UNCONSOLIDATED FRSTY S-RND MD QRTZ GRNS, TR GRN & YEL CLY

SH- RD TO DK RD BRN IP, FRM TO SFT, BLCKY, SMTH TO SLTY IP, TR SS CLSTRS IP

SLTST- WHT TO OFF WHT LT GY, HD TT, IMBD V/V/F-GRNS THRU, TR IMBD VF/F S-RND TO RND CLR QRTZ GRNS IP, TR IMBD GY SH, HVY TR SFT WHT CHLK, TR PRED UNCONSOLIDATED CLR TO FRST S-RND TO S-ANG MD TO LG QRTZ GRNS IN TRAY

SH & SLTS, LT GY TO RD OFF WHT, SFT TO GMMY, ABDT IMBD V/V/F-GRNS THRU, TR PRED UNCONSOLIDATED CLR TO FRSTY S-RND MD QRTZ GRNS, HVY TR SFT WHT CHLK, TR PYR IN TRAY

MISSISSIPPIAN 4819' (-1562)

LS- CRM TO LT TN, HD DNS TO BRTT IP, F-XLN, TT SUCRO, WTHRD, TR IMBD FOSS FRGS, TR FREE FOSS IN TRAY, HVY TR SFT WHT CHLK THRU, SCAT IMBD CHLORITE IP, SLI TR CLR FRSTY & ORNG CHRT IN TRAY, DLL YEL MIN FLO IN 30%-40%, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO LT GY, HD DNS, V TT SUCRO MTRX, F-XLN, WTHRD, HVY TR GMMY WHT CHLK THRU TRY, TR IMBD GY SH IP, TR GRN CLY IP, DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN TO TN, HD DNS TO BRTT IP, F/MD-XLN, SUCRO, WTHRD, HVY TR CLR TO GY CHRT THRU, TR IMBD V/V/F-GRNS IP, TR GMMY WHT CHLK, DLL YEL MIN FLO

WOB 38K
RPM 85
PP 850
SPM 58

WT 9.4
VIS 77
LCM 3#

WT 9.4
VIS 80
LCM 3#

ROP (min/ft) 5
Gamma (API) 150

4700

4750

4800

4850

69 U. INC

60 U. BG

70 U. BG

CN

35 U. BG

45 U. BG

CN

58 U. BG

50 U. BG

CN

45 U. BG

42 U. BG

CN

46 U. BG

43 U. BG

CN

41 U. BG

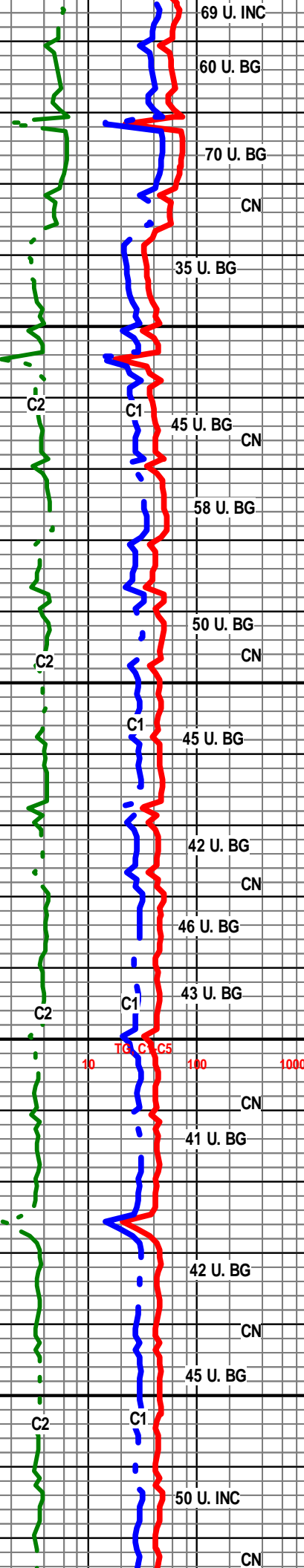
42 U. BG

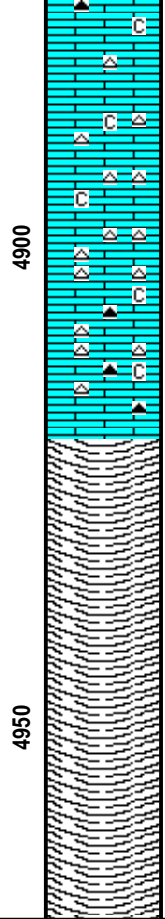
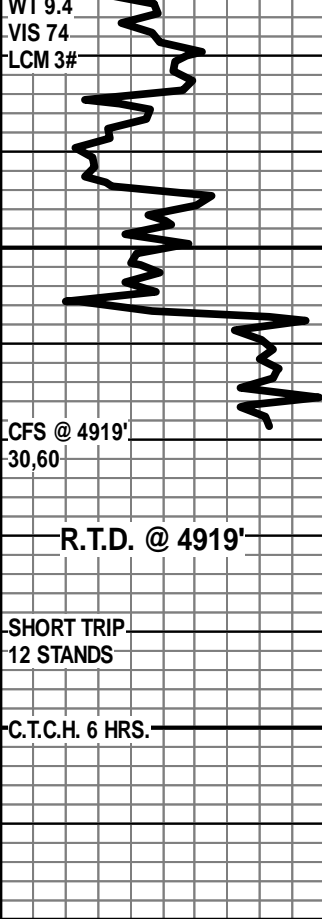
CN

45 U. BG

50 U. INC

CN





WV CRNSH, TR GMMY WHT GRN, DEEPL MINTEL
IN 50%, NO VIS POR, NO VIS CUT OR SHOW

LS- TN TO LT TN WHT, HD DNS, F-XLN, TT SUCRO MTRX,
WTHRD, ABDT WHT TO CLR FRSTY CHRT THRU TRAY, TR
SFT TO GMMY WHT CHLK, NO VIS FLO, NO VIS POR, NO
VIS CUT OR SHOW

LS- BRN TO DK TN, HD DNS, VF-XLN, CRYTPO-XLN IP, TR
SUCRO, HVY TR CLR TO WHT & ORNG CHRT IN TRAY, NO
VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

R.T.D. @ 12:30 9/1214

DROP SURVEY

T.O.F.L. @ 9:00 A.M. 9/12/14

WEATHERFORD/ LIBERAL, KANSAS

LOGGERS T.D.

