Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1250558

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 # 31725
Name: Shelby Resources LLC
Address 1: 2717 Canal Blvd
Address 2: Suite C
City: HAYS State: KS Zip: 67601 + ____
Contact Person: Chris Gottschalk
Phone: (785) 623-1524
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Jeremy Schwartz
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 #:

04/14/2015	04/20/2015	04/20/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-145-21803-00-00
Spot Description:
__ - SE - SE - SW Sec. 3 Twp. 22 S. R. 16 ☐ East ☑ West
330 Feet from ☐ North / ☑ South Line of Section
2310 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Pawnee
Lease Name: Buster Well #: 2-3
Field Name:
Producing Formation: N/A
Elevation: Ground: 1992 Kelly Bushing: 2005
Total Vertical Depth: 4110 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1026 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: 62000 ppm Fluid volume: 1000 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Shelby Resources
Lease Name: Eakin #2-7 License #: 31725
Quarter NE Sec. 7 Twp. 22 S. R. 16 ☐ East ☑ West
County: Pawnee Permit #: D30939

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: 05/14/2015
☑ **Confidential Release Date:** 05/13/2017
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 05/15/2015

[redacted]

1250558

Operator Name: Shelby Resources LLC Lease Name: Buster Well #: 2-3

Sec. 3 Twp. 22 S. R. 16 ☐ East ☑ West County: Pawnee

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Heebner	3442	-1437
L-KC	3556	-1551
Stark Shale	3751	-1746
BKC	3801	-1796
Conglomerate	3838	-1833
Arbuckle	4014	-2009
LTD	4110	-2105

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	24	1026	60/40 Poz	450	2% gel/ 3% cc

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Buster 2-3
Doc ID	1250558

All Electric Logs Run

Dual Induction
Compensated Neutron
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Buster 2-3
Doc ID	1250558

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	1026	60/40 Poz	450	2% gel/ 3% cc

DRILL STEM TEST REPORT

Prepared For: **Shelby Resources L.L.C.**

2717 Canal Blvd Suite C
Hays Kansas 676-1

ATTN: Jeremy Schwartz

Buster #2

3-22s-16w

Start Date: 2015.04.18 @ 09:19:00
End Date: 2015.04.18 @ 14:45:00
Job Ticket #: 01027 DST #: 1

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2015.04.18 @ 15:06:44

DRILL STEM TEST REPORT

Shelby Resources L.L.C.

2717 Canal Blvd Suite C
Hays Kansas 676-1

ATTN: Jeremy Schwartz

3-22s-16w

Buster #2

Job Ticket: 01027 **DST#: 1**

Test Start: 2015.04.18 @ 09:19:00

GENERAL INFORMATION:

Formation: **Conglomerate**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:34:30
Time Test Ended: 14:45:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: 01-48 FROM GB

Interval: 3840.00 ft (KB) To 3904.00 ft (KB) (TVD)
Total Depth: 3904.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

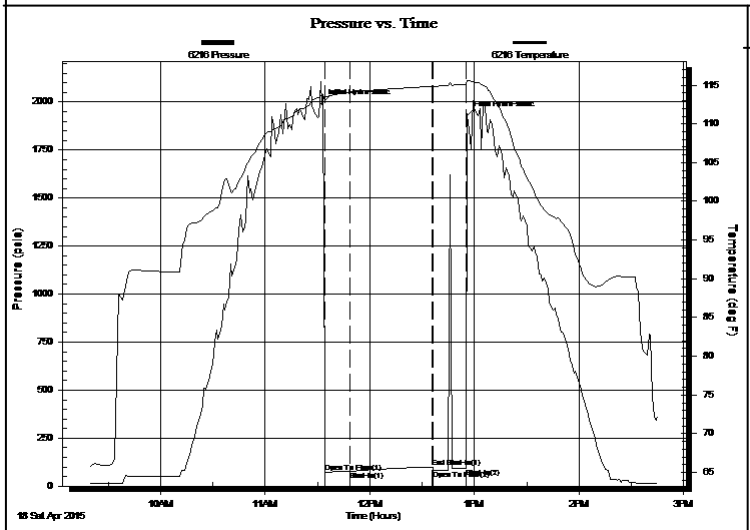
Reference Elevations: 2006.00 ft (KB)
1992.00 ft (CF)
KB to GR/CF: 14.00 ft

Serial #: 6216 **Outside**

Press@RunDepth: 77.58 psia @ 3899.14 ft (KB)
Start Date: 2015.04.18 End Date: 2015.04.18
Start Time: 09:19:00 End Time: 14:45:00

Capacity: 5000.00 psia
Last Calib.: 2015.04.18
Time On Btm: 2015.04.18 @ 11:32:30
Time Off Btm: 2015.04.18 @ 12:56:00

TEST COMMENT:
1st Opening 15 Minutes weak building blow built to 2 1/2 inches into the water
1st Shut-In 45 Minutes-No blow back
2nd Opening 20 Minutes-No blow flushed tool after 7 minutes good surge weak blow for 2 minutes and died
2nd Shut-In none taken



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1991.81	113.60	Initial Hydro-static
2	71.67	113.47	Open To Flow (1)
16	77.58	114.06	Shut-In(1)
63	100.34	114.84	End Shut-In(1)
64	80.83	114.84	Open To Flow (2)
83	94.03	115.07	Shut-In(2)
84	1930.71	115.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Drilling Mud	0.30

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources L.L.C.

2717 Canal Blvd Suite C
Hays Kansas 676-1

ATTN: Jeremy Schwartz

3-22s-16w

Buster #2

Job Ticket: 01027 **DST#: 1**

Test Start: 2015.04.18 @ 09:19:00

GENERAL INFORMATION:

Formation: **Conglomerate**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:34:30
Time Test Ended: 14:45:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: 01-48 FROM GB

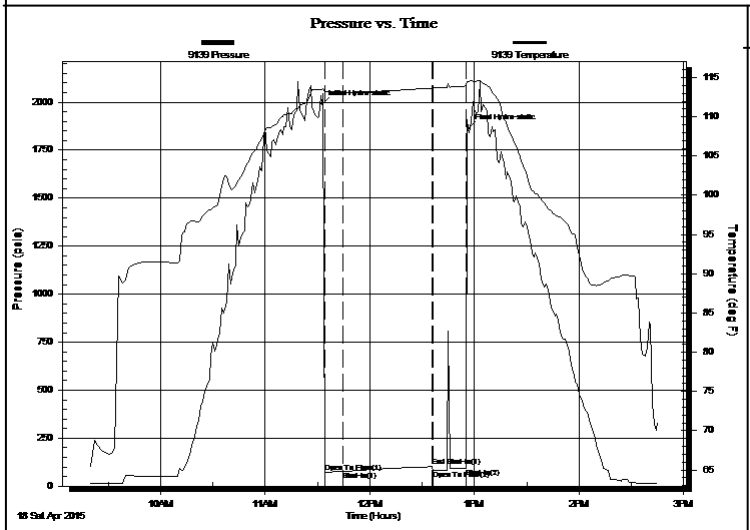
Interval: 3840.00 ft (KB) To 3904.00 ft (KB) (TVD)
Total Depth: 3904.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2006.00 ft (KB)
1992.00 ft (CF)
KB to GR/CF: 14.00 ft

Serial #: 9139 **Inside**
Press@RunDepth: 101.22 psia @ 3899.14 ft (KB)
Start Date: 2015.04.18 End Date: 2015.04.18
Start Time: 09:19:00 End Time: 14:45:00

Capacity: 5000.00 psia
Last Calib.: 2015.04.18
Time On Btm: 2015.04.18 @ 11:32:30
Time Off Btm: 2015.04.18 @ 12:56:30

TEST COMMENT: 1st Opening 15 Minutes weak building blow built to 2 1/2 inches into the water
1st Shut-In 45 Minutes-No blow back
2nd Opening 20 Minutes-No blow flushed tool after 7 minutes good surge weak blow for 2 minutes and died
2nd Shut-In none taken



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1988.22	113.50	Initial Hydro-static
2	71.32	113.19	Open To Flow (1)
12	77.97	113.11	Shut-In(1)
63	101.22	113.65	End Shut-In(1)
64	81.61	113.66	Open To Flow (2)
83	94.96	113.93	Shut-In(2)
84	1860.76	114.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Drilling Mud	0.30

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources L.L.C.

2717 Canal Blvd Suite C
Hays Kansas 676-1

ATTN: Jeremy Schwartz

3-22s-16w

Buster #2

Job Ticket: 01027 **DST#: 1**

Test Start: 2015.04.18 @ 09:19:00

Tool Information

Drill Pipe:	Length:	3756.00 ft	Diameter:	3.80	inches	Volume:	52.69	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:		inches	Volume:	0.00	bbl	
Drill Collar:	Length:	63.00 ft	Diameter:	2.25	inches	Volume:	0.31	bbl	
						Total Volume:	53.00	bbl	

Drill Pipe Above KB:	8.00 ft
Depth to Top Packer:	3840.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	64.14 ft
Tool Length:	93.14 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		74000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	54000.00 lb
	Final	54000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3816.00		
Hydraulic tool	5.00			3821.00		
Jars	7.00			3828.00		
Safety Joint	2.00		Fluid	3830.00		
Top Packer	5.00			3835.00		
Packer	5.00			3840.00	29.00	Bottom Of Top Packer
Anchor	5.00			3845.00		
Change Over Sub	0.75		Inside	3845.75		
Drill Pipe	30.64			3876.39		
Change Over Sub	0.75			3877.14		
Anchor	22.00			3899.14		
Recorder	0.00	9139	Inside	3899.14		
Recorder	0.00	6216	Outside	3899.14		
Bullnose	5.00			3904.14	64.14	Anchor Tool
Total Tool Length:	**93.14**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources L.L.C.

2717 Canal Blvd Suite C
Hays Kansas 676-1

ATTN: Jeremy Schwartz

3-22s-16w

Buster #2

Job Ticket: 01027 **DST#: 1**

Test Start: 2015.04.18 @ 09:19:00

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:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.80 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	4000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

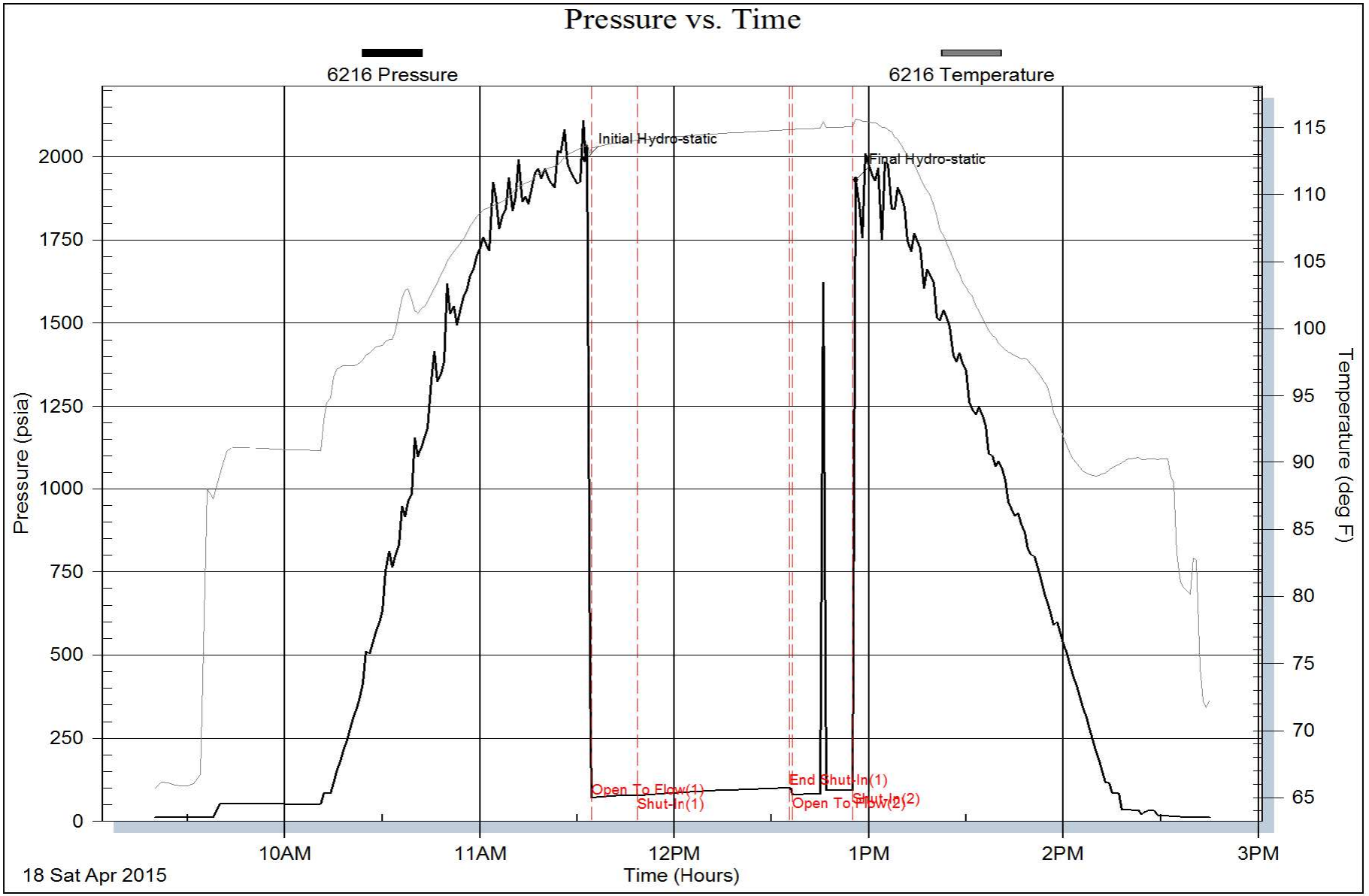
Recovery Table

Length ft	Description	Volume bbl
60.00	Drilling Mud	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

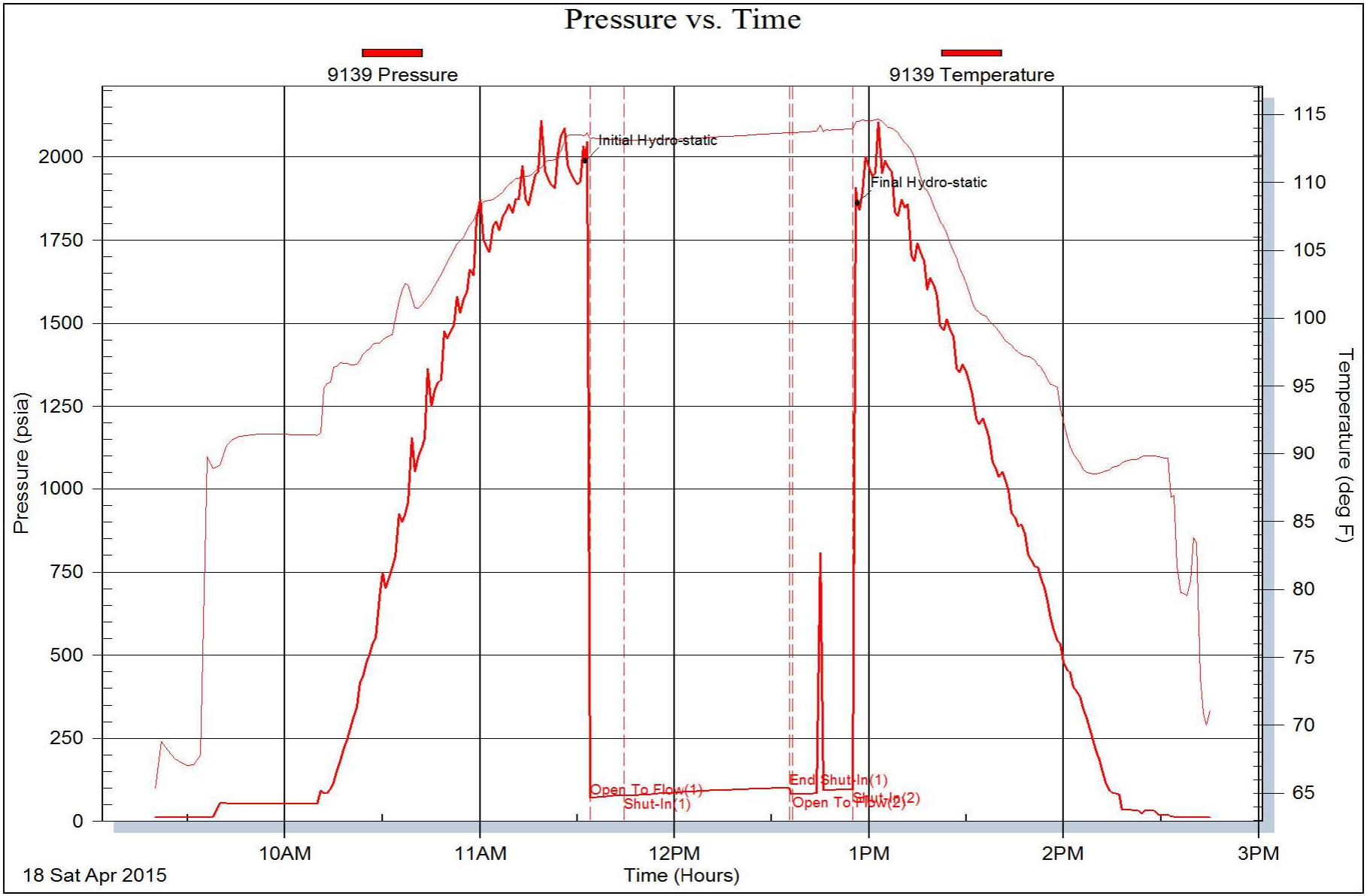
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6216 **Outside** Shelby Resources L.L.C. Buster #2 DST Test Number: 1



Eagle Testers Ref. No: 01027 Printed: 2015.04.18 @ 15:06:46

Serial #: 9139 **Inside** Shelby Resources L.L.C. Buster #2 DST Test Number: 1



Eagle Testers Ref. No: 01027 Printed: 2015.04.18 @ 15:06:46

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1150

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-15-15	3	22	16	Pawnee	KS		3:45 PM

Location Larned + K-19 - 2 1/4 E, S Into

Lease Busters Well No. 2-3

Contractor Sterling # 5

Type Job Surface

Hole Size 12 1/4" T.D. 1030'

Csg. 8 5/8" Depth 1030'

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 42' Shoe Joint 42'

Meas Line Displace 63 Bbls

EQUIPMENT

Pumptrk 16 No. Cementer Helper Billy

Bulktrk 21 No. Driver Driver Brett

~~Bulktrk~~ P.U. No. Driver Driver Rick

JOB SERVICES & REMARKS

Remarks: Cement did Circulate

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Owner

To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Shelby Resources

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 450 60/40 3% cc 2% Gel 1/2# Flo-seal

Common 270

Poz. Mix 180

Gel. 9

Calcium 18

Hulls

Salt

Flowseal 225

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling 477

Mileage

FLOAT EQUIPMENT

Guide Shoe 1 5 1/2" orn

~~Centralizer~~ Rubber plug

~~Baskets~~ Baffle plate

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge Long Surface

Mileage 20

Tax

Discount

Total Charge

X Signature Alan Loftin

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 1257

Cell 785-324-1041 4-20-2015

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-19-2015	13	22	16	Pawnee	Kansas		5:30 AM

Location Larned Ks. 2 1/4 E 1/8 S Into

Lease Buster Well No. 2-3 Owner

Contractor Sterling Drlg. Rig #5 To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job Rotary Plug Charge To Shelby Resources LLC.

Hole Size 7 7/8 T.D. 4110' Street

Csg. 8 5/8 Surface Depth 1030' City State

Tbg. Size Depth The above was done to satisfaction and supervision of owner agent or contractor.

Tool Depth Cement Amount Ordered 210 SX 60/40 4% gel 1/4# Flo-Seal

Cement Left in Csg. Shoe Joint

Meas Line Displace

EQUIPMENT

Pumptrk 18	No.	Cementer	Glenn G.
		Helper	Cody B.
Bulktrk 9	No.	Driver	Chad M.
		Driver	
Bulktrk	No.	Driver	
		Driver	

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

50 sx @ 4015'
50 sx @ 1050'
40 sx @ 270'
20 sx @ 60'
30 sx @ Rathole
20 sx @ Mousehole

THANK'S!

Common	126
Poz. Mix	84
Gel.	7
Calcium	
Hulls	
Salt	
Flowseal	50 ft
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	217
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	plug
Mileage 20	
Tax	
Discount	
Total Charge	

X Signature Alan Taylor

Scale 1:240 Imperial

Well Name:	Buster #2-3		
Surface Location:	330' FSL, 2310' FWL Sec. 3-22S-16W		
Bottom Location:			
API:	15-145-21803-00-00		
License Number:			
Spud Date:	4/14/2015	Time:	8:00 PM
Region:	Pawnee County		
Drilling Completed:	4/19/2015	Time:	8:55 AM
Surface Coordinates:			
Bottom Hole Coordinates:			
Ground Elevation:	1992.00ft		
K.B. Elevation:	2005.00ft		
Logged Interval:	3200.00ft	To:	4110.00ft
Total Depth:	4100.00ft		
Formation:	Simp/Cong Sand		
Drilling Fluid Type:	Chemical/Fresh Water Gel		

OPERATOR

Company:	Shelby Resources, LLC		
Address:	445 Union Blvd, Suite 208 Lakewood, CO 80228		
Contact Geologist:	Janine Sturdavant		
Contact Phone Nbr:	303-907-2209 / 720-274-4682		
Well Name:	Buster #2-3		
Location:	330' FSL, 2310' FWL Sec. 3-22S-16W	API:	15-145-21803-00-00
Pool:		Field:	Zook
State:	Kansas	Country:	USA

LOGGED BY

Company:	Shelby Resources, LLC		
Address:	445 UNION BLVD. Suite 208 LAKEWOOD, CO. 80228		
Phone Nbr:	203-671-6034		
Logged By:	Geologist	Name:	Jeremy Schwartz

NOTES

The Shelby Resources, LLC Buster #2-3 was drilled to a total depth of 4110', bottoming in the Arbuckle. A TookeDaq gas detector was employed in the drilling of said well.

1 DST was conducted. The reports can be found at the bottom of this log.

Due to the DST results, gas kicks, sample shows, and log analysis, it was determined by all consenting parties to plug and abandon the well. The dry samples were saved and will be available for furthur review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

Respectfully Submitted,
Jeremy Schwartz
Geologist

CONTRACTOR

Contractor:	Sterling Drilling Co		
Rig #:	5		
Rig Type:	mud rotary		
Spud Date:	4/14/2015	Time:	8:00 PM

TD Date:	4/19/2015	Time:	8:55 AM
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation:	2005.00ft	Ground Elevation:	1992.00ft
K.B. to Ground:	13.00ft		

DATE	DEPTH	ACTIVITY
Friday, April 17, 2015	3430'	Geologist Jeremy Schwartz on location @ 1130hrs, ~3430', drilling ahead through
		Heebner, Toronto, Douglas Shale, Brown Lime, Lansing Kansas-City, Stark Shale,
		BKC, Marmaton, CFS @ 3818', Drop Survey, Strap Out, Conduct Bit Trip, Swap PDC
	3818'	for Button Bit,
Saturday, April 18, 2015	3818'	Successful Bit Trip, Resume DRLG ahead through Marmaton, Conglomerate,
	3904'	CFS @ 3904', Conduct DST #1 in the Conglomerate, Successful Test, Resume DRLG
		ahead through, Conglomerate, CFS @ 3944', Resume Drlg, CFS @ 3956',
		Resume Drlg ahead through conglomerate,
Sunday, April 19, 2015	3965'	Continue Drlg ahead throgh Conglomerate, Arbuckle, CFS @ 4022', Resume DRLG
	4029'	ahead , CFS @ 4029', Resume DRLG ahead to TD @ 4110', TD reached @ 0855hrs
	4110'	CTCH 1hr, Pipe Pulling Tight, Short Trip 10 stands, CTCH 1hr, OOH, Conduct
		Logging Operations, Logging Operations Complete @ 1830hrs,
		Geologist Jeremy Schwartz off location @ 1930hrs

CLIENT:	SHELBY RESOURCES, LLC
WELL NAME:	BUSTER #2-3
LEGAL:	SE SE SW 3-T22S-R16W
COUNTY:	PAWNEE COUNTY, KS
API :	15-145-21803-00-00
DRLG CONTRACTOR:	STERLING DRILLING CO.
RIG #:	5
DOGHOUSE #:	620-388-5433
TOOLPUSHER:	ALAN LOFTIS
CELL #:	620-388-2736

	D&A								D&A											
	CAPTIVA II								DAVIS-CHILD								SHELBY RESOURCES, LLC			
	BUSTER #1-10								BUSTER #1								ARKANSAS RIVER UNIT #1-3			
	BUSTER #2-3				SW-NE-SW-NE 10-22S-16W				C-NE-NE-SW								CS/2S/2 NE/4 3-22S-16W			
	KB	2005			KB	2018			KB	2003							KB	1999		
	LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.	
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.		CORR.		DEPTH	DATUM	CORR.		CORR.		DEPTH	DATUM	CORR.		CORR.	
ANHYDRITE TOP	1002	1003	998	1007	1013	1005	-	2	+	2	1000	1003	+	0	+	4	1000	999	+	4	+	8
BASE	1029	976	1024	981	1038	980	-	4	+	1	1025	978	-	2	+	3	1024	975	+	1	+	6
TOPEKA	3171	-1166	3172	-1167	3193	-1175	+	9	+	8							3160	-1161				
HEEBNER SHALE	3442	-1437	3443	-1438	3466	-1448	+	11	+	10	3436	-1433	-	4	-	5	3430	-1431	-	6	-	7
TORONTO	3460	-1455	3460	-1455	3478	-1460	+	5	+	5	3450	-1447	-	8	-	8	3446	-1447	-	8	-	8
DOUGLAS SHALE	3477	-1472	3478	-1473	3504	-1486	+	14	+	13	3470	-1467	-	5	-	6	3463	-1464	-	8	-	9
BROWN LIME	3548	-1543	3549	-1544	3572	-1554	+	11	+	10	3544	-1541	-	2	-	3	3540	-1541	-	2	-	3
LKC	3556	-1551	3557	-1552	3578	-1560	+	9	+	8	3562	-1559	+	8	+	7	3549	-1550	-	1	-	2
STARK SHALE	3751	-1746	3752	-1747	3776	-1758	+	12	+	11	3746	-1743	-	3	-	4	3735	-1736	-	10	-	11
BKC	3801	-1796	3804	-1799	3833	-1815	+	19	+	16	3798	-1795	-	1	-	4	3787	-1788	-	8	-	11
MARMATON	3823	-1818	3817	-1812	3846	-1828	+	10	+	16	3820	-1817	-	1	+	5	3810	-1811	-	7	-	1
CONGLOMERATE	3838	-1833	3842	-1837	3880	-1862	+	29	+	25	3870	-1867	+	34	+	30	3824	-1825	-	8	-	12
CONG. SAND											3906	-1903					3857	-1858				
SIMPSON SHALE	3942	-1937	3939	-1934	3979	-1961	+	24	+	27	3947	-1944	+	7	+	10	3917	-1918	-	19	-	16
SIMPSON SAND					3984	-1966					3967	-1964					3934	-1935				
ARBUCKLE	4014	-2009	4015	-2010	4031	-2013	+	4	+	3	4033	-2030	+	21	+	20	3991	-1992	-	17	-	18
RTD			4110	-2105	4130	-2112			+	7	4065	-2062			-	43	4100	-2101			-	4
LTD	4110	-2105			4117	-2099	-	6			4064	-2061	-	44			4101	-2102	-	3		

ROCK TYPES

Congl
Dolprim
Lmst fw<7
shale, grn
shale, gry
Carbon Sh
shale, red

ACCESSORIES

MINERAL
- Chert White
- Chert, tripolitic

FOSSIL
- Bioclastic or Fragmental
- F Fossils < 20%

STRINGER
- Chert
- Limestone
- Sandstone
- Siltstone

TEXTURE
- C Chalky

OTHER SYMBOLS

MISC
- DR Daily Report

DST
- DST Int

DST alt

Digital Photo

Document

Folder

Link

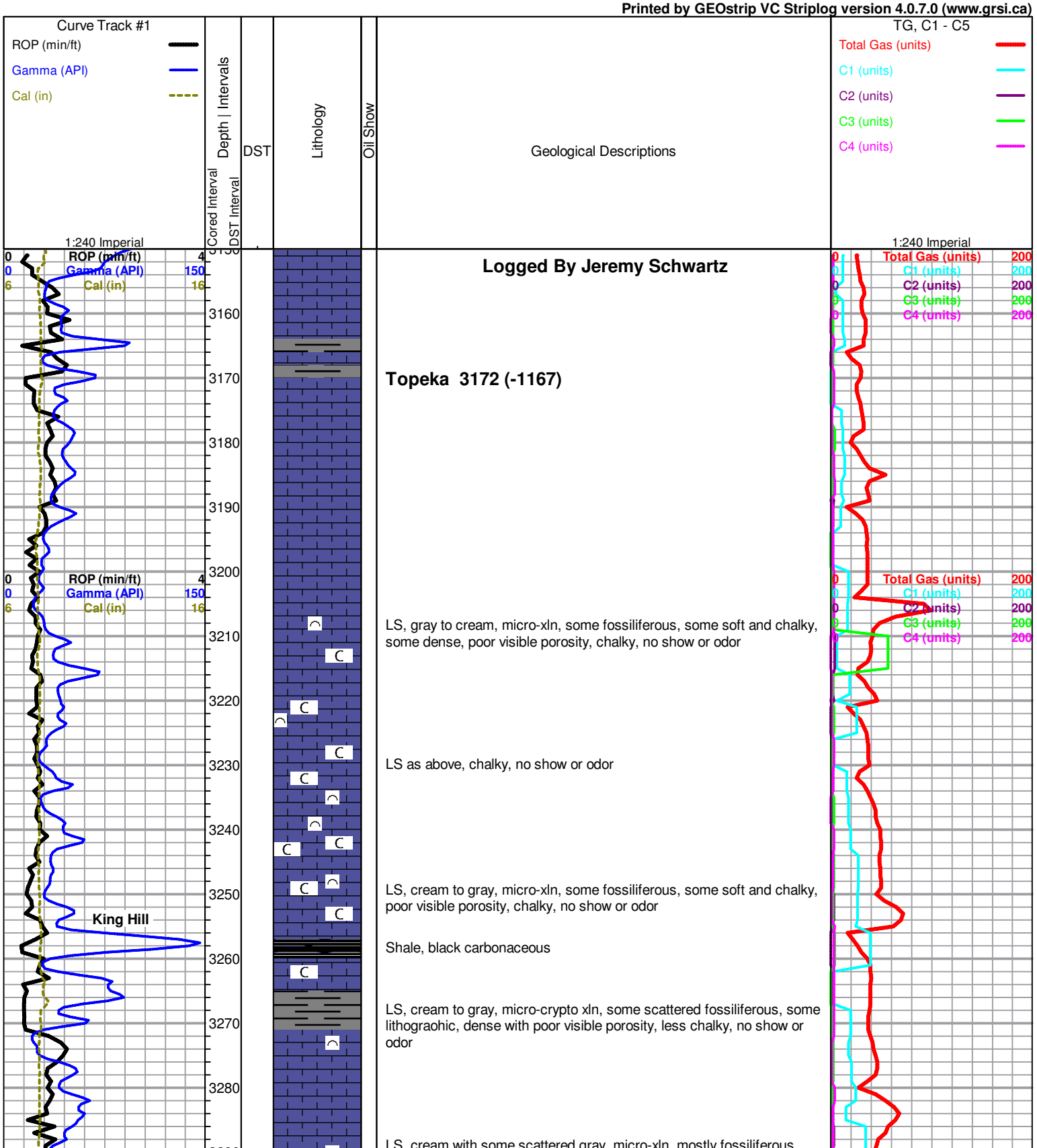
Vertical Log File

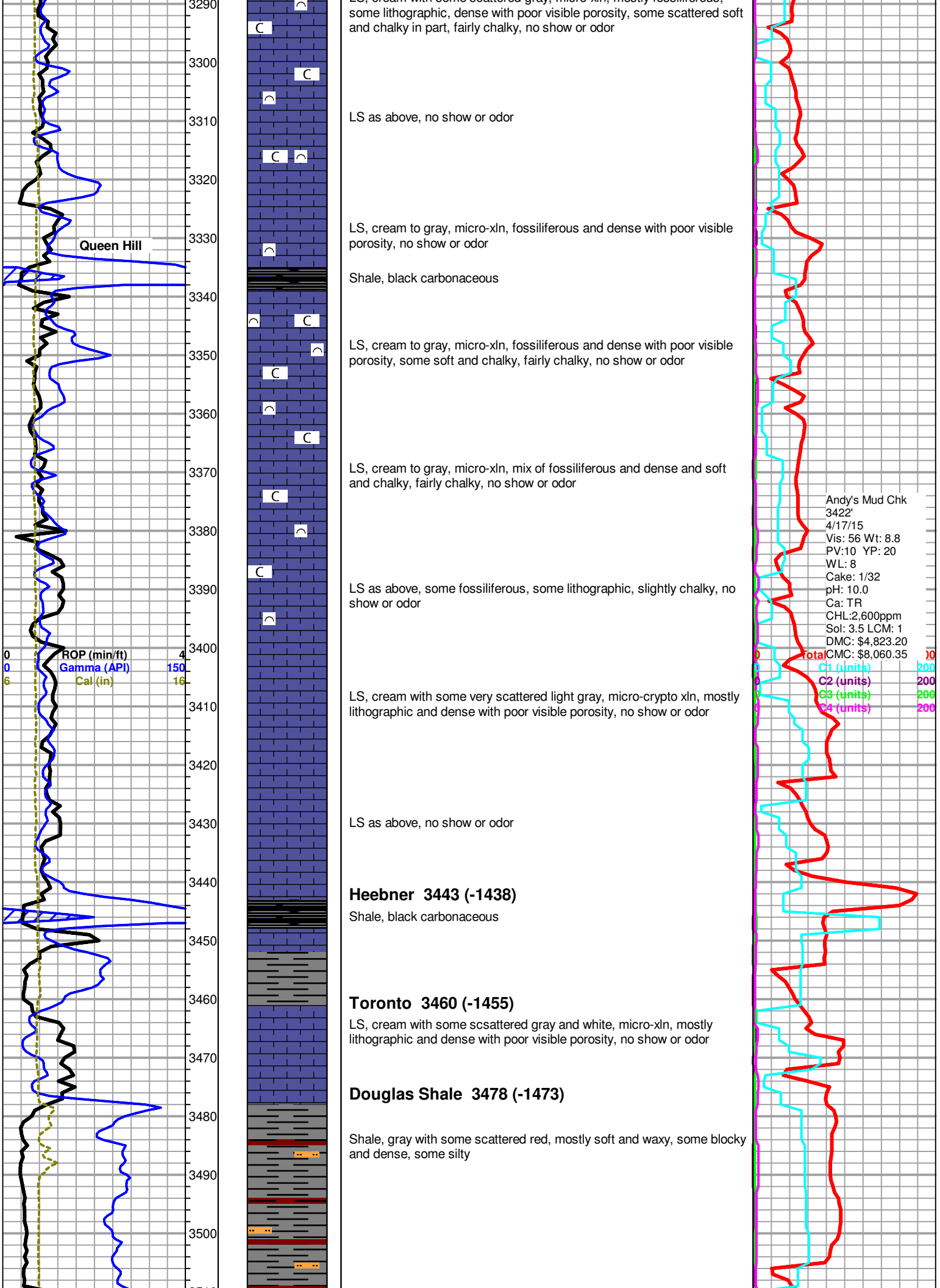
Horizontal Log File

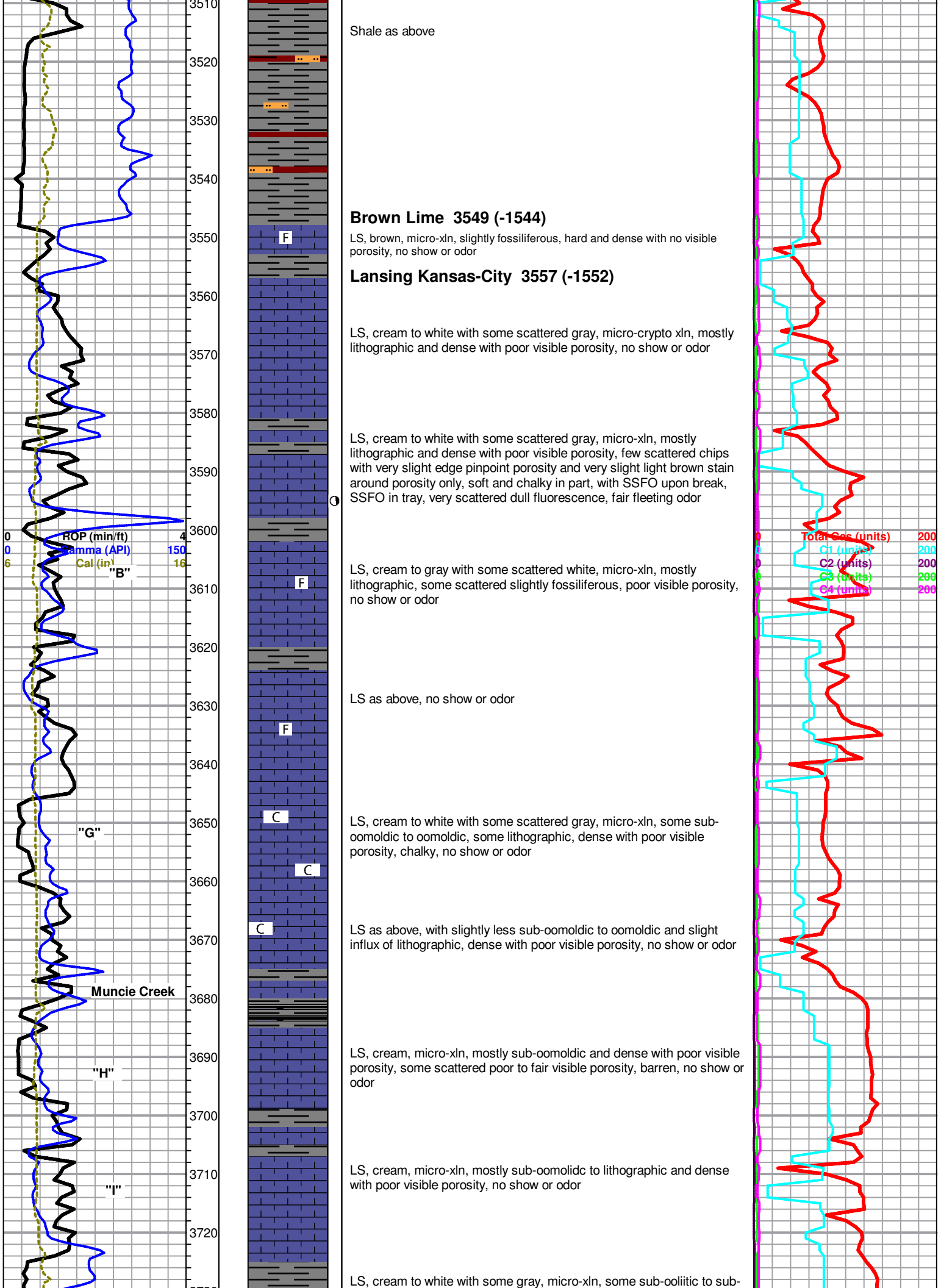
Core Log File

Drill Cuttings Rpt

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)




Queen Hill
0 ROP (min/ft) 4
0 Gamma (API) 150
6 Cal (in) 16
3290
3300
3310
3320
3330
3340
3350
3360
3370
3380
3390
3400
3410
3420
3430
3440
3450
3460
3470
3480
3490
3500
LS, cream with some scattered gray, micro-xln, mostly fossiliferous, some lithographic, dense with poor visible porosity, some scattered soft and chalky in part, fairly chalky, no show or odor
LS as above, no show or odor
LS, cream to gray, micro-xln, fossiliferous and dense with poor visible porosity, no show or odor
Shale, black carbonaceous
LS, cream to gray, micro-xln, fossiliferous and dense with poor visible porosity, some soft and chalky, fairly chalky, no show or odor
LS, cream to gray, micro-xln, mix of fossiliferous and dense and soft and chalky, fairly chalky, no show or odor
LS as above, some fossiliferous, some lithographic, slightly chalky, no show or odor
LS, cream with some very scattered light gray, micro-crypto xln, mostly lithographic and dense with poor visible porosity, no show or odor
LS as above, no show or odor
Heebner 3443 (-1438)
Shale, black carbonaceous
Toronto 3460 (-1455)
LS, cream with some scsattered gray and white, micro-xln, mostly lithographic and dense with poor visible porosity, no show or odor
Douglas Shale 3478 (-1473)
Shale, gray with some scattered red, mostly soft and waxy, some blocky and dense, some silty
Andy's Mud Chk
3422'
4/17/15
Vis: 56 Wt: 8.8
PV:10 YP: 20
WL: 8
Cake: 1/32
pH: 10.0
Ca: TR
CHL:2,600ppm
Sol: 3.5 LCM: 1
DMC: $4,823.20
CMC: $8,060.35
Total
C1 (units)
C2 (units)
C3 (units)
C4 (units)



Shale as above

Brown Lime 3549 (-1544)

LS, brown, micro-xln, slightly fossiliferous, hard and dense with no visible porosity, no show or odor

Lansing Kansas-City 3557 (-1552)

LS, cream to white with some scattered gray, micro-crypto xln, mostly lithographic and dense with poor visible porosity, no show or odor

LS, cream to white with some scattered gray, micro-xln, mostly lithographic and dense with poor visible porosity, few scattered chips with very slight edge pinpoint porosity and very slight light brown stain around porosity only, soft and chalky in part, with SSFO upon break, SSFO in tray, very scattered dull fluorescence, fair fleeting odor

LS, cream to gray with some scattered white, micro-xln, mostly lithographic, some scattered slightly fossiliferous, poor visible porosity, no show or odor

LS as above, no show or odor

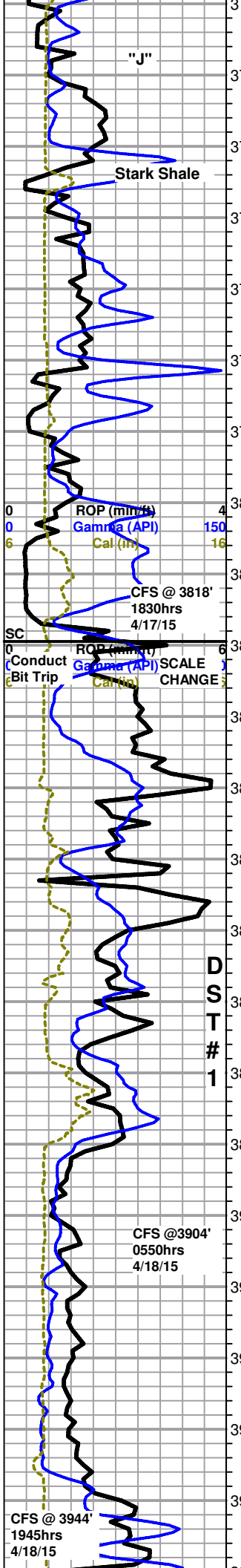
LS, cream to white with some scattered gray, micro-xln, some sub-oomoldic to oomoldic, some lithographic, dense with poor visible porosity, chalky, no show or odor

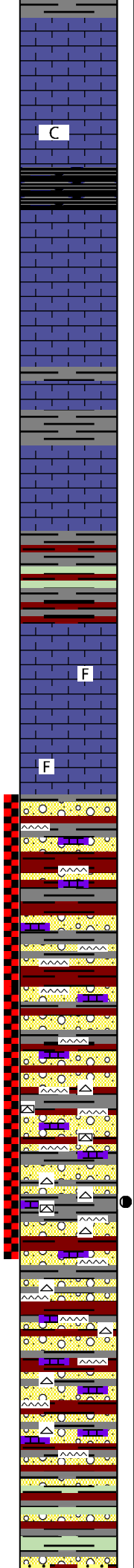
LS as above, with slightly less sub-oomoldic to oomoldic and slight influx of lithographic, dense with poor visible porosity, no show or odor

LS, cream, micro-xln, mostly sub-oomoldic and dense with poor visible porosity, some scattered poor to fair visible porosity, barren, no show or odor

LS, cream, micro-xln, mostly sub-oomolidc to lithographic and dense with poor visible porosity, no show or odor

LS, cream to white with some gray, micro-xln, some sub-ooliitic to sub-





oomoldic, some scattered with poor to fair visible porosity, barren, also with some lithographic, dense with poor visible porosity, no show or odor

LS as above, wiyth influx of white lithographic, some soft and chalky in part, no show or odor

LS, cream to white with some scattered gray, micro-crypto xln, mostly lithographic and dense with poor visible porosity, some very scattered sub-oomoldic, dense and barren with poor visible porosity, no show or odor

LS as above, no show or odor

BKC 3804 (-1799)

Shale, mostly gray and red with trace green

Marmaton 3817 (-1812)

LS, mostly cream to off white with some light gray and trace pale green, micro-crypto xln, lithographic and dense with poor visible porosity, no show or odor

LS as above, also with some scattered slightly fossiliferous and very scattered sub-oolitic to sub-oomoldic, dense and barren with poor visible porosity, no show or odor

Conglomerate 3842 (-1837)

Mixed cream to gray LS with trace pale green as above, with influx gray shale with some red and trace green, with some scattered tan to orange chert, sharp and vitreous, slight red wash, no show or odor

Conglomerate as above, no show or odor, heavy red wash

Buster 2-3 DST#1.jpg

3904' 30" Conglomerate with some scattered cream to white chert, mostly sub-rounded edges, tripoloitic with fair visible porosity, few chips with several small vugs and good visible porosity, with mostly saturated to saturated dark brown stain, with trace very fine sub-rounded quartz grains in bottom of tray, SSFO in tray, poor fleeting odor in cup

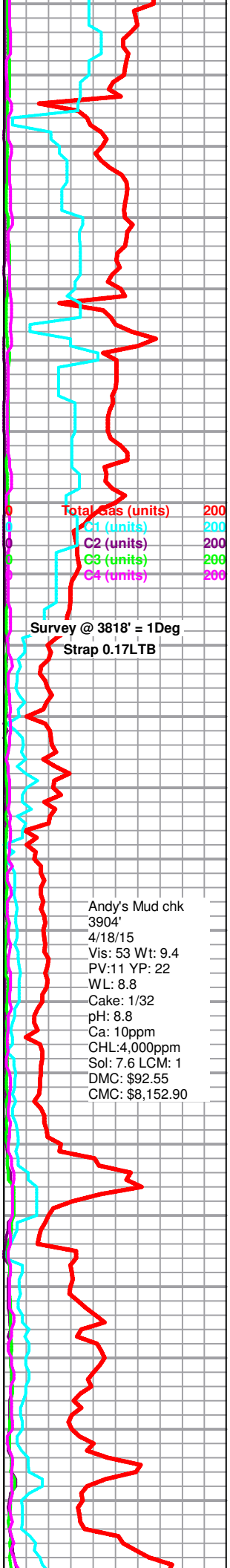
3904' 60" Conglomerate and tripolitic chert as above, VSSFO in tray, no odor

Mixed cream to gray with trace pale green LS, gray and red shale, and tan to brown and yellow to off white cherts, some with tripolitic edges and brown to black stain around porosity only, NSFO, no odor

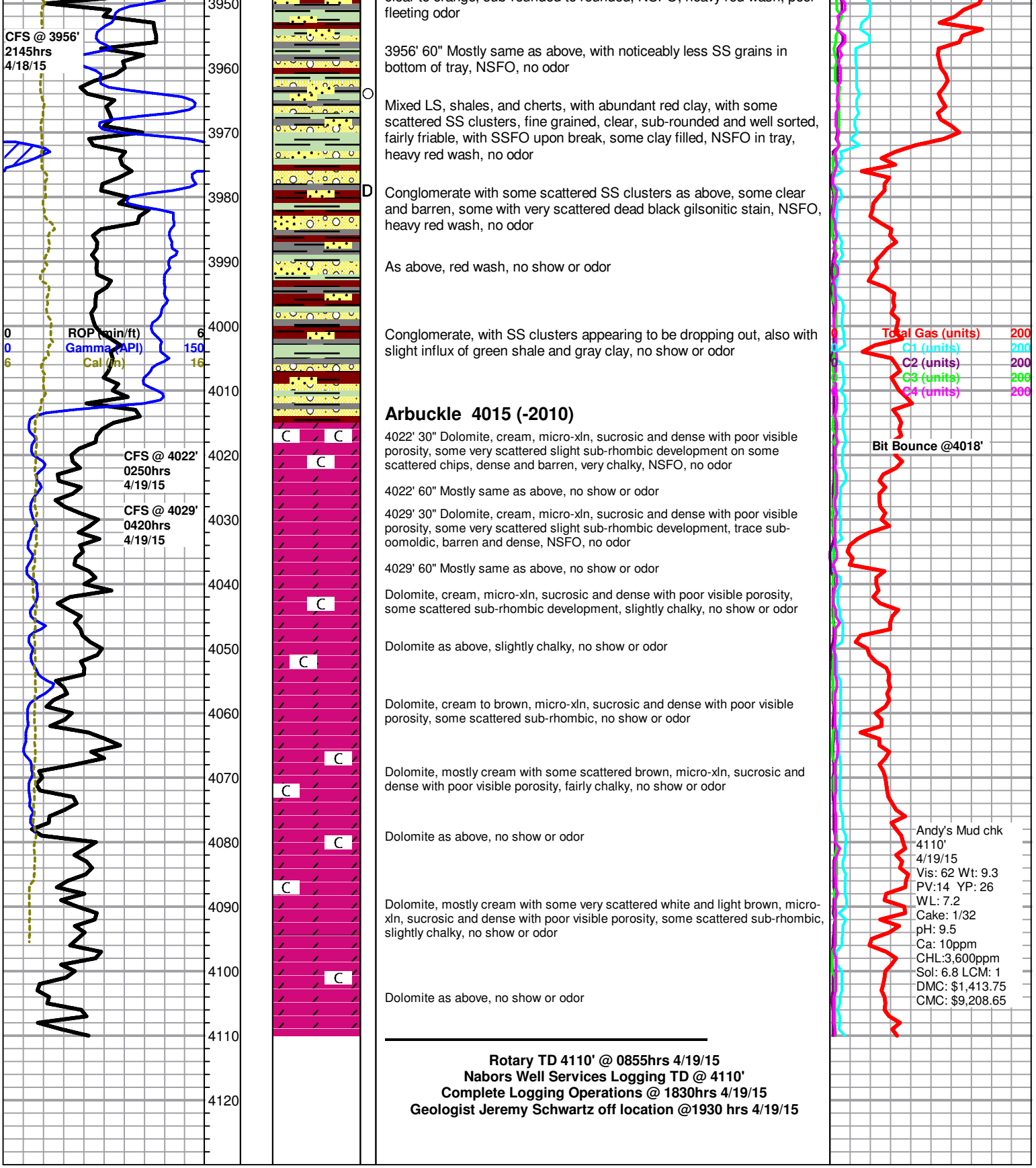
3944' 30" Conglomerate with slight influx white to off white and some scattered yellow cherts, weathered and dense with sub-rounded edges, no visible porosity, some scattered tripolitic to tripolitic edges with scattered stain and slight show gas bubbles in porosity, NSFO, no odor

3944' 60" Conglomerate as above, NSFO, no odor

3956' 30" Mixed LS, shales, and cherts, with slight influx green shale, with abundant loose quartz SS grains in bottom of tray, f-med grained, clear to orange, sub-rounded to rounded, NSFO, heavy red wash, poor



Andy's Mud chk
3904'
4/18/15
Vis: 53 Wt: 9.4
PV:11 YP: 22
WL: 8.8
Cake: 1/32
pH: 8.8
Ca: 10ppm
CHL:4,000ppm
Sol: 7.6 LCM: 1
DMC: $92.55
CMC: $8,152.90



fleeting odor

3956' 60" Mostly same as above, with noticeably less SS grains in bottom of tray, NSFO, no odor

Mixed LS, shales, and cherts, with abundant red clay, with some scattered SS clusters, fine grained, clear, sub-rounded and well sorted, fairly friable, with SSFO upon break, some clay filled, NSFO in tray, heavy red wash, no odor

Conglomerate with some scattered SS clusters as above, some clear and barren, some with very scattered dead black gilsonitic stain, NSFO, heavy red wash, no odor

As above, red wash, no show or odor

Conglomerate, with SS clusters appearing to be dropping out, also with slight influx of green shale and gray clay, no show or odor

Arbuckle 4015 (-2010)

4022' 30" Dolomite, cream, micro-xln, sucrosic and dense with poor visible porosity, some very scattered slight sub-rhombic development on some scattered chips, dense and barren, very chalky, NSFO, no odor

4022' 60" Mostly same as above, no show or odor

4029' 30" Dolomite, cream, micro-xln, sucrosic and dense with poor visible porosity, some very scattered slight sub-rhombic development, trace sub-oomoldic, barren and dense, NSFO, no odor

4029' 60" Mostly same as above, no show or odor

Dolomite, cream, micro-xln, sucrosic and dense with poor visible porosity, some scattered sub-rhombic development, slightly chalky, no show or odor

Dolomite as above, slightly chalky, no show or odor

Dolomite, cream to brown, micro-xln, sucrosic and dense with poor visible porosity, some scattered sub-rhombic, no show or odor

Dolomite, mostly cream with some scattered brown, micro-xln, sucrosic and dense with poor visible porosity, fairly chalky, no show or odor

Dolomite as above, no show or odor

Dolomite, mostly cream with some very scattered white and light brown, micro-xln, sucrosic and dense with poor visible porosity, some scattered sub-rhombic, slightly chalky, no show or odor

Dolomite as above, no show or odor

Rotary TD 4110' @ 0855hrs 4/19/15
Nabors Well Services Logging TD @ 4110'
Complete Logging Operations @ 1830hrs 4/19/15
Geologist Jeremy Schwartz off location @1930 hrs 4/19/15

Buster 2-3 DST#1.jpg

DRILL STEM TEST REPORT

Shelby Resources L.L.C.

2717 Canal Blvd Suite C
Hays Kansas 676-1

ATTN: Jeremy Schwartz

3-22s-16w

Buster #2

Job Ticket: 01027 **DST#: 1**

Test Start: 2015.04.18 @ 09:19:00

GENERAL INFORMATION:

Formation: **Conglomerate**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:34:30
Time Test Ended: 14:45:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: 01-48 FROM GB

Interval: 3840.00 ft (KB) To 3904.00 ft (KB) (TVD)
Total Depth: 3904.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

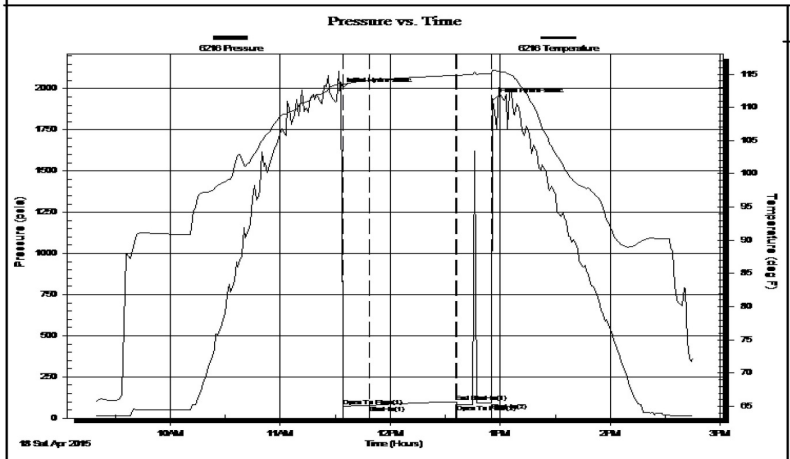
Reference Elevations: 2006.00 ft (KB)
1992.00 ft (CF)
KB to GR/CF: 14.00 ft

Serial #: 6216 **Outside**

Press@RunDepth: 77.58 psia @ 3899.14 ft (KB)
Start Date: 2015.04.18 End Date: 2015.04.18
Start Time: 09:19:00 End Time: 14:45:00

Capacity: 5000.00 psia
Last Calib.: 2015.04.18
Time On Btm: 2015.04.18 @ 11:32:30
Time Off Btm: 2015.04.18 @ 12:56:00

TEST COMMENT: 1st Opening 15 Minutes weak building blow built to 2 1/2 inches into the water
1st Shut-In 45 Minutes-No blow back
2nd Opening 20 Minutes-No blow flushed tool after 7 minutes good surge weak blow for 2 minutes and died
2nd Shut-In none taken



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1991.81	113.60	Initial Hydro-static
2	71.67	113.47	Open To Flow (1)
16	77.58	114.06	Shut-In(1)
63	100.34	114.84	End Shut-In(1)
64	80.83	114.84	Open To Flow (2)
83	94.03	115.07	Shut-In(2)
84	1930.71	115.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Drilling Mud	0.30

Gas Rates

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