

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1266896
OIL & GAS CONSERVATION DIVISION

Form ACO-1

November 2016

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

1266896

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 Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	OLSON TRUST 1-19
Doc ID	1266896

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC

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. 1463

Date	6-18-15	Sec.	19	Twp.	3	Range	31	County	Rawlins	State	KS	On Location		Finish	9:15pm
Location								Atwood 9E 31R 3S Binto							
Lease	Olson Trust			Well No.	Owner										
Contractor	Murfin #7			To Quality Oilwell Cementing, Inc.											
Type Job	Surface			You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Hole Size	12 1/4			T.D.	303			Charge To	Sam Coard Jr & Associates						
Csg.	8 5/8			Depth	302			Street							
Tbg. Size				Depth								City	State		
Tool				Depth	The above was done to satisfaction and supervision of owner agent or contractor.										
Cement Left in Csg.	20'			Shoe Joint	Cement Amount Ordered										
Meas Line				Displace	18 BL			200com 3/11 2/62							
EQUIPMENT															
Pumptrk	20	No.		Cementer	Craig			Common	200						
				Helper	Nick			Poz. Mix							
Bulktrk		No.		Driver	Doug			Gel.	3						
Bulktrk	9	No.		Driver	Doug			Calcium	7						
JOB SERVICES & REMARKS															
Remarks:											Hulls				
Rat Hole											Salt				
Mouse Hole											Flowseal				
Centralizers											Kol-Seal				
Baskets											Mud CLR 48				
D/V or Port Collar											CFL-117 or CD110 CAF 38				
8 5/8 on bottom. Est. Circulation. Mix 200 SK + D 5/8															
Cement Circulated!															
FLOAT EQUIPMENT															
Guide Shoe															
Centralizer 1 8 5/8															
Baskets															
AFU Inserts															
Float Shoe															
Latch Down															
Pumptrk Charge Surface															
Mileage Surface 65															
Tax															
Discount															
Total Charge															
X Signature	Kelly Wilson														

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. 1002

Date	6-25-15	Sec.	19	Twp.	3	Range	31	County	Rawlins	State	KS	On Location		Finish	2:30 AM
Location								Atwood 9E to 31 Rd 3S							

Lease	Olsen Trust	Well No.	1-19	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.
Contractor	Martin 7				
Type Job	Plug				
Hole Size	7 7/8	T.D.			
Csg.	Drill Pipe	Depth			
Tbg. Size		Depth			
Tool		Depth			
Cement Left in Csg.		Shoe Joint	Cement Amount Ordered 255 @ 1/40 4% Gel 1/4 Flt		

Meas Line	Displace	
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EQUIPMENT			Common
Pumptrk	5	No. Cementer Helper David	153
Bulktrk	14	No. Driver Driver Chad	Poz. Mix 102
Bulktrk	PU	No. Driver Driver Brett	Gel. 9
			Calcium

JOB SERVICES & REMARKS

Remarks:	Salt
Rat Hole - 30 sx	Flowseal 56 ft
Mouse Hole - 15 sx	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
	Handling 264
1st Plug @ 2810 w/ 50 sx	Mileage 8 5/8
	FLOAT EQUIPMENT
2nd Plug @ 2110 w/ 100 sx	Guide Shoe
	Centralizer
3rd Plug @ 355 w/ 50 sx	Baskets
	AFU Inserts
4th Plug @ 40 w/ 10 sx	Float Shoe
	Latch Down
	Wood Plug - 1
	Pumptrk Charge
	Mileage 65 Plug

<input checked="" type="checkbox"/> Signature Kelly Wilson	Tax
	Discount
	Total Charge



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

19-3S-31W Rawlins, KS

1515 Wynkoop STE #700
Denver, CO 80202

Olson Trust #1-19

Job Ticket: 53435

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2015.06.21 @ 14:53:00

GENERAL INFORMATION:

Formation: **Lansing / Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:22:30

Time Test Ended: 22:31:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 3974.00 ft (KB) To 4040.00 ft (KB) (TVD)

Reference Elevations: 3015.00 ft (KB)

Total Depth: 4040.00 ft (KB) (TVD)

3008.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8874 Inside

Press @ Run Depth: 156.40 psig @ 3975.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.21

End Date:

2015.06.21

Last Calib.:

2015.06.21

Start Time: 14:54:00

End Time:

22:31:30

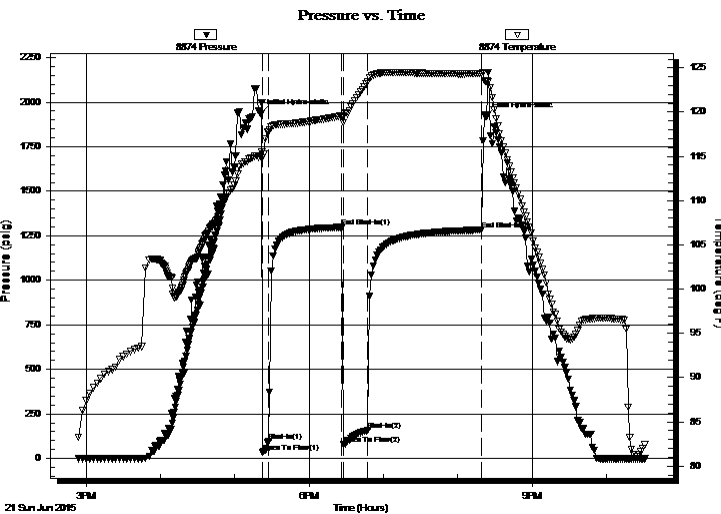
Time On Btm:

2015.06.21 @ 17:21:00

Time Off Btm:

2015.06.21 @ 20:22:30

TEST COMMENT: 5 - IF- 3/4" Blow built to 3 1/2"
60 - IS- No Return
20 - FF- Blow started at 1 1/2 Min. Built to 9"
90 - FS- No Return



PRESSURE SUMMARY

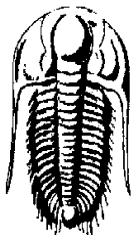
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1933.64	115.05	Initial Hydro-static
2	32.82	114.83	Open To Flow (1)
7	97.74	117.82	Shut-In(1)
66	1297.48	119.61	End Shut-In(1)
67	79.39	118.80	Open To Flow (2)
87	156.40	123.42	Shut-In(2)
178	1283.26	124.33	End Shut-In(2)
182	1918.14	123.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 10M 90W	0.30
60.00	MW 20M 80W	0.30
60.00	OSMW 10M 90W (oil spots)	0.30
50.00	OSM 100M (oil spots)	0.25

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

19-3S-31W Rawlins, KS

1515 Wynkoop STE #700
Denver, CO 80202

Olson Trust #1-19

Job Ticket: 53435

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2015.06.21 @ 14:53:00

GENERAL INFORMATION:

Formation: **Lansing / Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:22:30

Time Test Ended: 22:31:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 3974.00 ft (KB) To 4040.00 ft (KB) (TVD)

Reference Elevations: 3015.00 ft (KB)

Total Depth: 4040.00 ft (KB) (TVD)

3008.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8653 Outside

Press @ Run Depth: psig @ 3975.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.21

End Date:

2015.06.21

Last Calib.:

2015.06.21

Start Time: 14:54:00

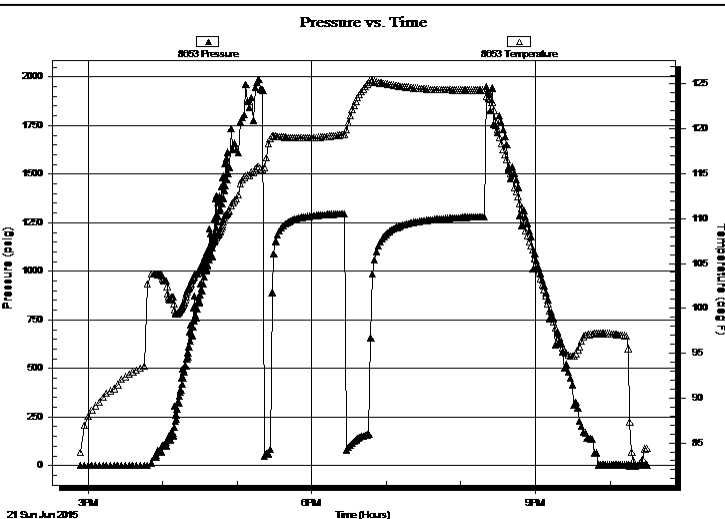
End Time:

22:30:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 - IF- 3/4" Blow built to 3 1/2"
60 - IS- No Return
20 - FF- Blow started at 1 1/2 Min. Built to 9"
90 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 10M 90W	0.30
60.00	MW 20M 80W	0.30
60.00	OSMW 10M 90W (oil spots)	0.30
50.00	OSM 100M (oil spots)	0.25

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

19-3S-31W Rawlins, KS

1515 Wynkoop STE #700
Denver, CO 80202

Olson Trust #1-19

Job Ticket: 53435

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2015.06.21 @ 14:53:00

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:

67000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	MW 10M 90W	0.295
60.00	MW 20M 80W	0.295
60.00	OSMW 10M 90W (oil spots)	0.295
50.00	OSM 100M (oil spots)	0.246

Total Length: 230.00 ft

Total Volume: 1.131 bbl

Num Fluid Samples: 0

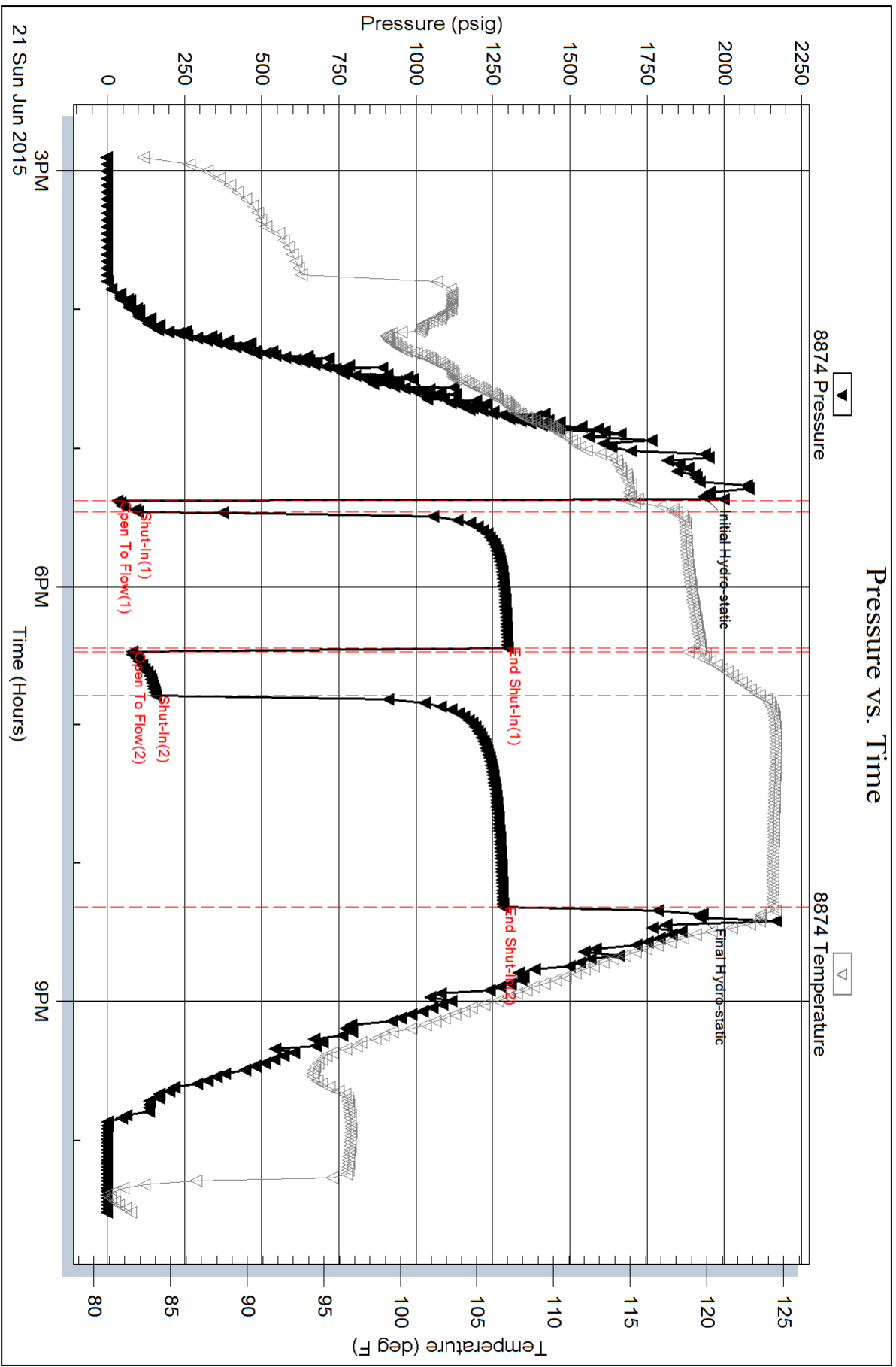
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .09 @ 88 = 67000ppm

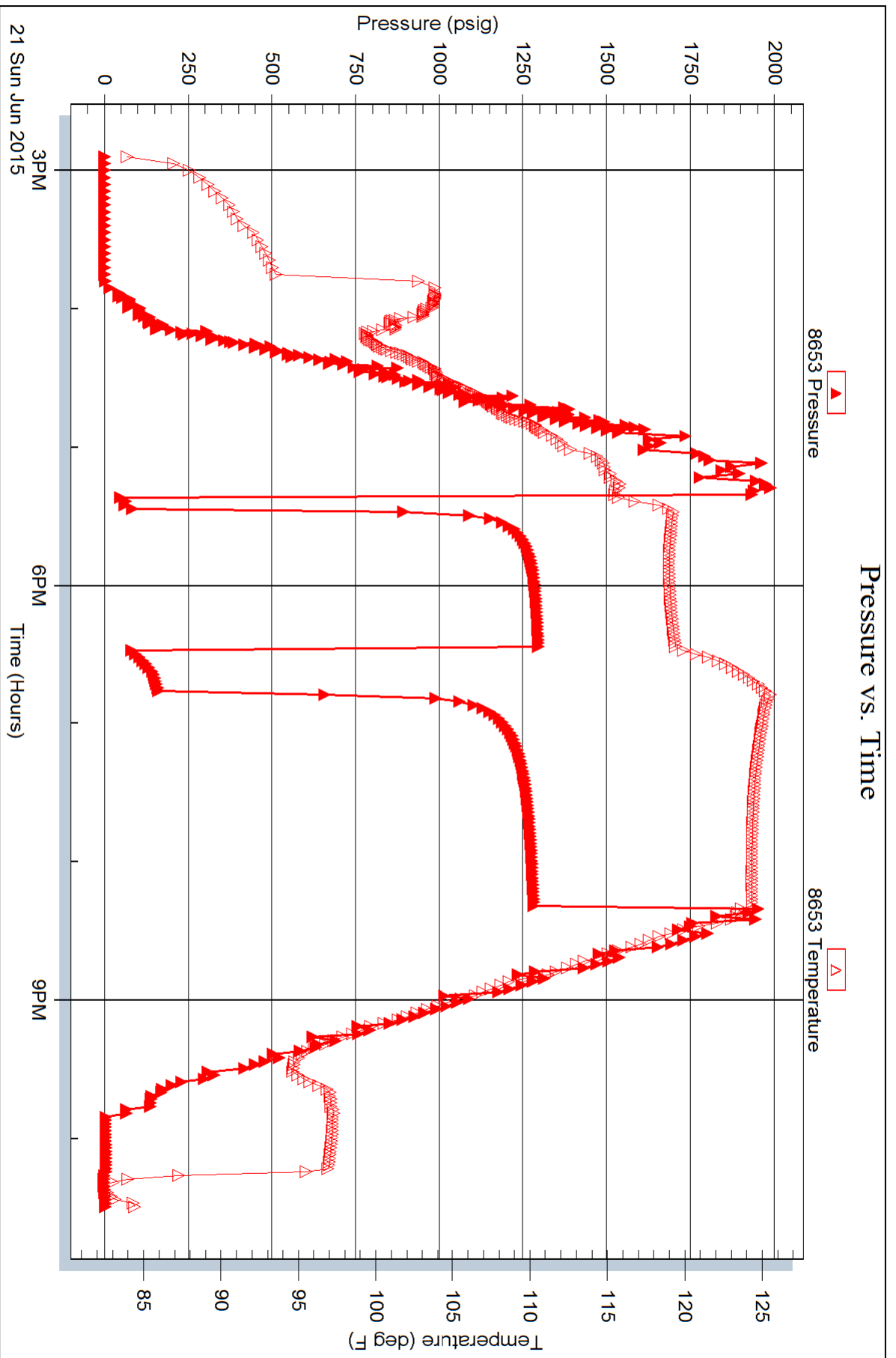


Serial #: 8653

Outside Samuel Gary Jr. & Associates, Inc.

Olson Trust #1-19

DST Test Number: 1



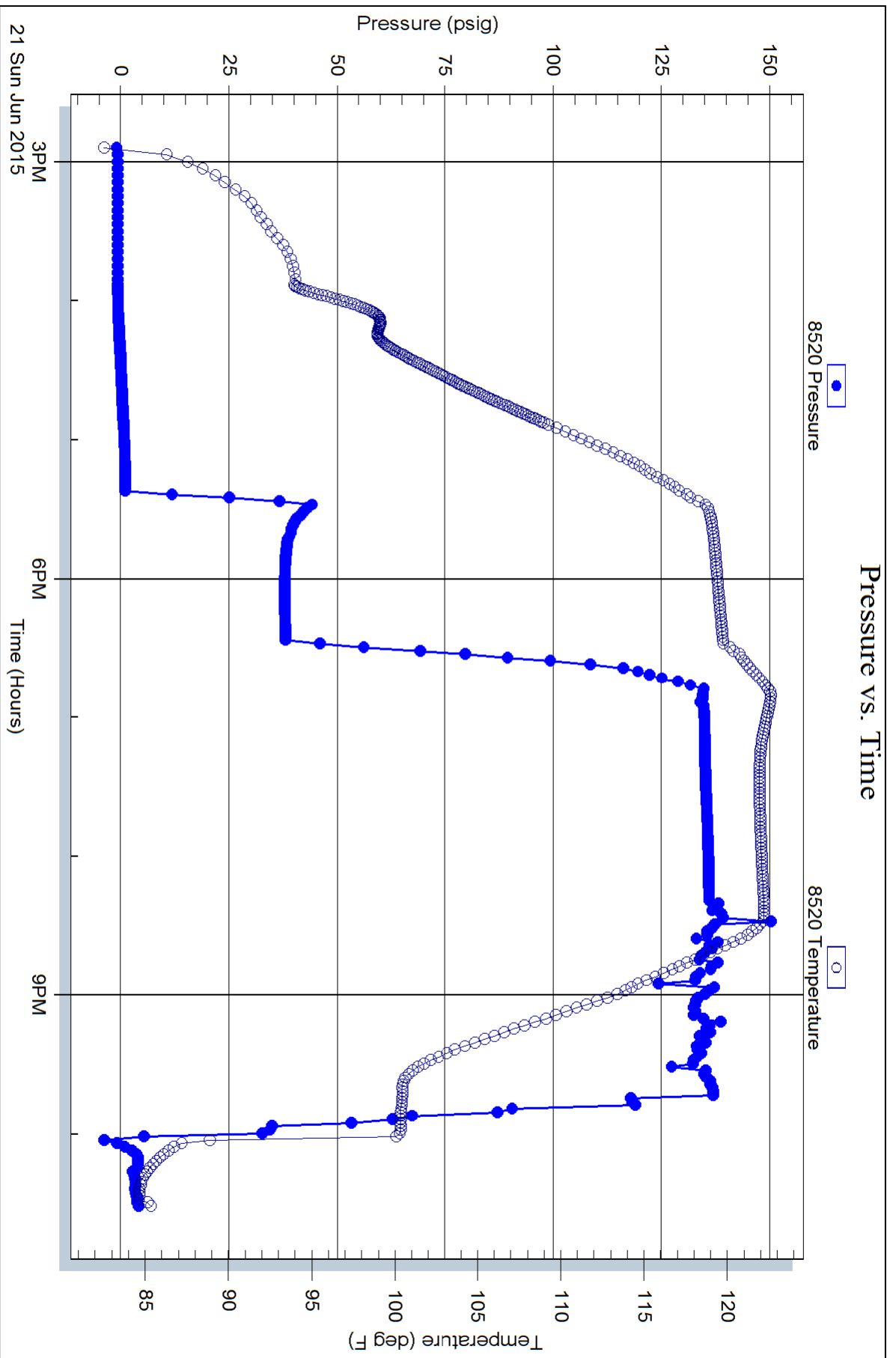
Serial #: 8520

Fluid

Samuel Gary Jr. & Associates, Inc.

Olson Trust #1-19

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 53435

Printed: 2015.06.22 @ 05:52:42



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

19-3S-31W Rawlins, KS

1515 Wynkoop STE #700
Denver, CO 80202

Olson Trust #1-19

Job Ticket: 53436

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2015.06.22 @ 15:10:00

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:55:00

Time Test Ended: 21:26:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4150.00 ft (KB) To 4180.00 ft (KB) (TVD)

Reference Elevations: 3015.00 ft (KB)

Total Depth: 4180.00 ft (KB) (TVD)

3008.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8653 Outside

Press @ RunDepth: 19.05 psig @ 4151.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.22

End Date:

2015.06.22

Last Calib.:

2015.06.22

Start Time: 15:11:00

End Time:

21:26:00

Time On Btm:

2015.06.22 @ 17:54:00

Time Off Btm:

2015.06.22 @ 19:26:00

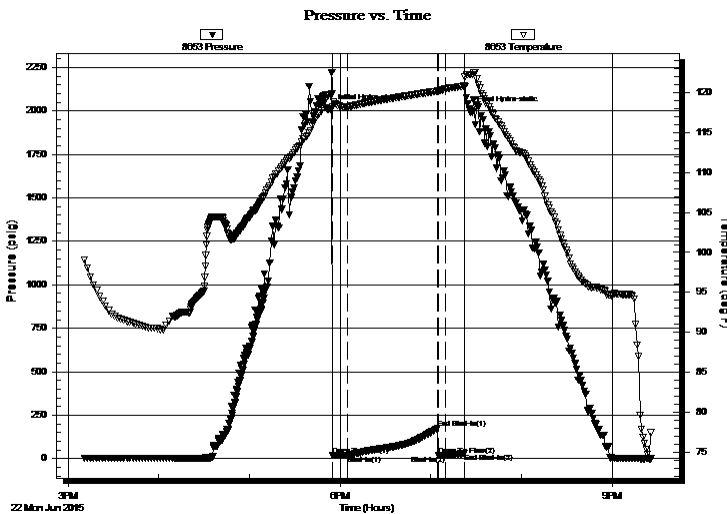
TEST COMMENT: 10 - IF- 1/8" Blow died in 8 minutes

60 - IS- No Return

5 - FF- No Blow

10 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2011.22	119.66	Initial Hydro-static
1	19.61	118.25	Open To Flow (1)
11	19.92	118.19	Shut-In(1)
71	175.69	120.16	End Shut-In(1)
71	20.82	120.14	Open To Flow (2)
76	19.05	120.45	Shut-In(2)
88	30.21	120.77	End Shut-In(2)
92	2000.90	122.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100M	0.02

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

19-3S-31W Rawlins, KS

1515 Wynkoop STE #700
Denver, CO 80202

Olson Trust #1-19

Job Ticket: 53436

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2015.06.22 @ 15:10:00

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:55:00

Time Test Ended: 21:26:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4150.00 ft (KB) To 4180.00 ft (KB) (TVD)

Reference Elevations: 3015.00 ft (KB)

Total Depth: 4180.00 ft (KB) (TVD)

3008.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8874 Inside

Press @ RunDepth: psig @ 4151.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.22

End Date:

2015.06.22

Last Calib.:

2015.06.22

Start Time: 15:11:00

End Time:

21:27:00

Time On Btm:

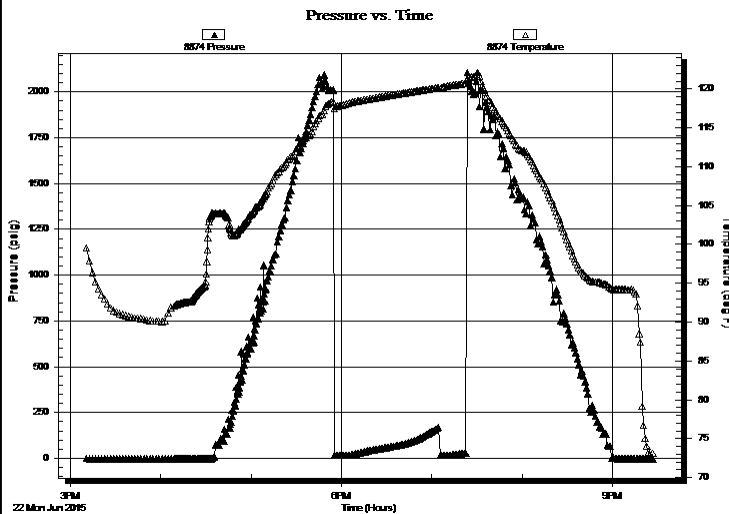
Time Off Btm:

TEST COMMENT: 10 - IF- 1/8" Blow died in 8 minutes

60 - IS- No Return

5 - FF- No Blow

10 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

19-3S-31W Rawlins, KS

1515 Wynkoop STE #700
Denver, CO 80202

Olson Trust #1-19

Job Ticket: 53436

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2015.06.22 @ 15:10:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

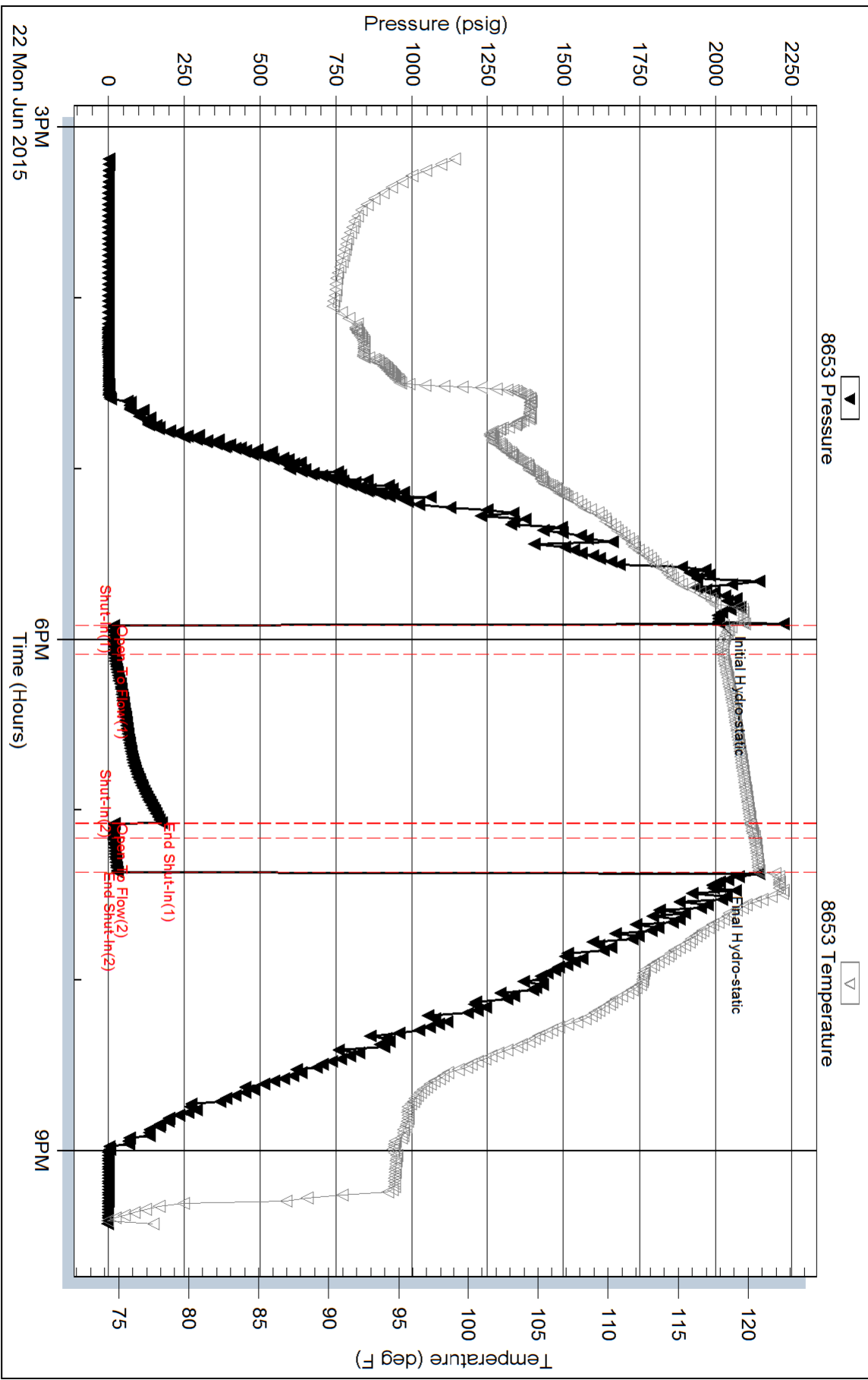
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



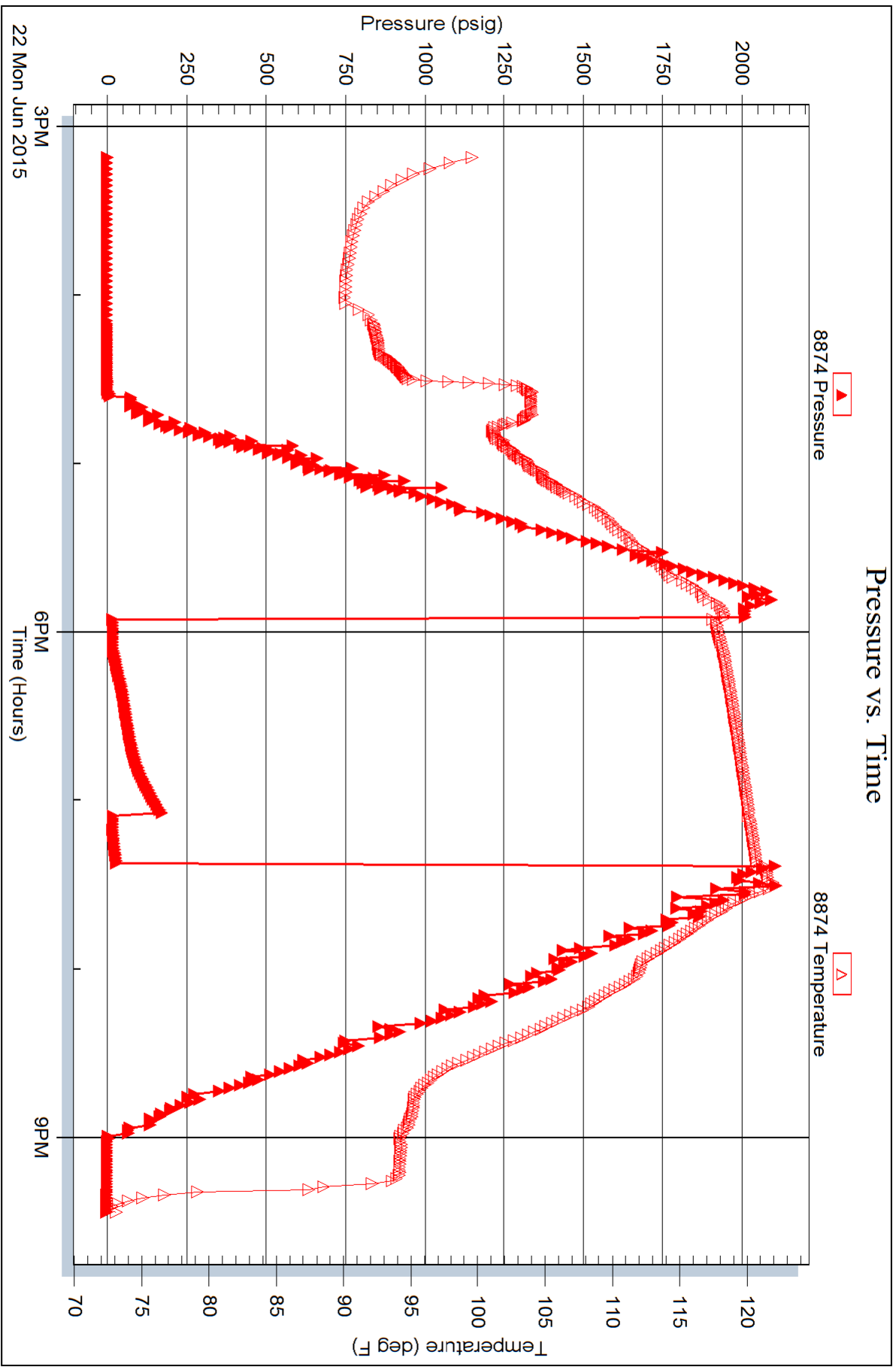
Serial #: 8874

Inside

Samuel Gary Jr. & Associates, Inc.

Olson Trust #1-19

DST Test Number: 2



Serial #: 8520

Fluid

Samuel Gary Jr. & Associates, Inc.

Olson Trust #1-19

DST Test Number: 2





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

Well Name: OLSON TRUST 1-19
Well Id:
Location: SEC. 19-3S-31W RAWLINS COUNTY, KANSAS
License Number: 15-153-21148-0000 Region: WILDCAT
Spud Date: 6/18/2015 Drilling Completed: 6/24/2015
Surface Coordinates: 340 FSL/ 1500 FWL

Bottom Hole
Coordinates:
Ground Elevation (ft): 3008' K.B. Elevation (ft): 3015'
Logged Interval (ft): 3830' To: 4670' Total Depth (ft): 4670'
Formation: Lansing, Kansas City, Pawnee, Cherokee
Type of Drilling Fluid: Natural Chemical

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

OPERATOR

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

GEOLOGIST

Name: Ian Bosmeijer
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: 580-754-0221



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

19-3S-31W Rawlins, KS

1515 Wyrkoop STE #700
Denver, CO 80202

Olson Trust #1-19

Job Ticket: 53435 **DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2015.06.21 @ 14:53:00

GENERAL INFORMATION:

Formation: **Lansing / Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:22:30

Time Test Ended: 22:31:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: **3974.00 ft (KB) To 4040.00 ft (KB) (TVD)**

Total Depth: 4040.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3015.00 ft (KB)

3008.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8874

Inside

Press@RunDepth: 156.40 psig @ 3975.00 ft (KB)

Start Date: 2015.06.21

Start Time: 14:54:00

End Date:

End Time:

2015.06.21

22:31:30

Capacity: 8000.00 psig

Last Calb.: 2015.06.21

Time On Btm: 2015.06.21 @ 17:21:00

Time Off Btm: 2015.06.21 @ 20:22:30

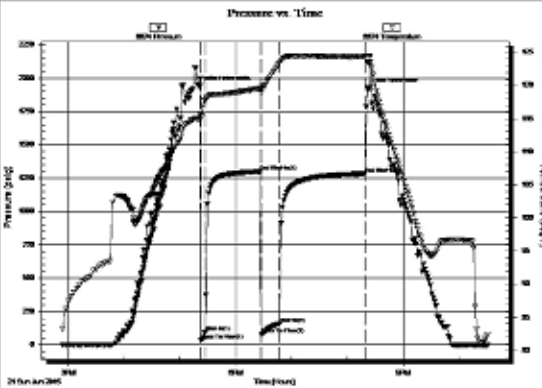
TEST COMMENT:

5 - F- 3/4" Blow built to 3 1/2"

60 - ISI- No Return

20 - FF- Blow started at 1 1/2 Min. Built to 9"

90 - FSI- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1933.64	115.05	Initial Hydro-static
2	32.82	114.83	Open To Flow (1)
7	97.74	117.82	Shut-In(1)
66	1297.48	119.61	End Shut-In(1)
67	79.39	118.80	Open To Flow (2)
87	156.40	123.42	Shut-In(2)
178	1283.26	124.33	End Shut-In(2)
182	1918.14	123.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 10M 90W	0.30
60.00	MW 20M 80W	0.30
60.00	OSMW 10M 90W (oil spots)	0.30
50.00	OSM 100M (oil spots)	0.25

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

19-3S-31W Rawlins, KS

1515 Wyrkoop STE #700
Denver, CO 80202

Olson Trust #1-19

Job Ticket: 53436

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2015.06.22 @ 15:10:00

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:55:00

Time Test Ended: 21:26:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: **4150.00 ft (KB) To 4180.00 ft (KB) (TVD)**

Total Depth: 4180.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3015.00 ft (KB)

3008.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8653

Outside

Press@RunDepth: 19.05 psig @ 4151.00 ft (KB)

Start Date: 2015.06.22

End Date: 2015.06.22

Start Time: 15:11:00

End Time: 21:26:00

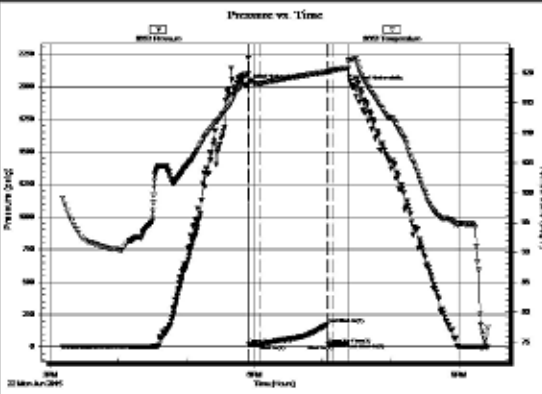
Capacity: 8000.00 psig

Last Calb.: 2015.06.22

Time On Btm: 2015.06.22 @ 17:54:00

Time Off Btm: 2015.06.22 @ 19:26:00

TEST COMMENT: 10 - F- 1/8" Blow died in 8 minutes
60 - IS- No Return
5 - FF- No Blow
10 - FSI- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2011.22	119.66	Initial Hydro-static
1	19.61	118.25	Open To Flow (1)
11	19.92	118.19	Shut-In(1)
71	175.69	120.16	End Shut-In(1)
71	20.82	120.14	Open To Flow (2)
76	19.05	120.45	Shut-In(2)
89	30.21	120.77	End Shut-In(2)
92	2000.90	122.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100M	0.02

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

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

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

FOSSIL

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

STRINGER

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

TEXTURE

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

OTHER SYMBOLS

POROSITY TYPE

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

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOWS

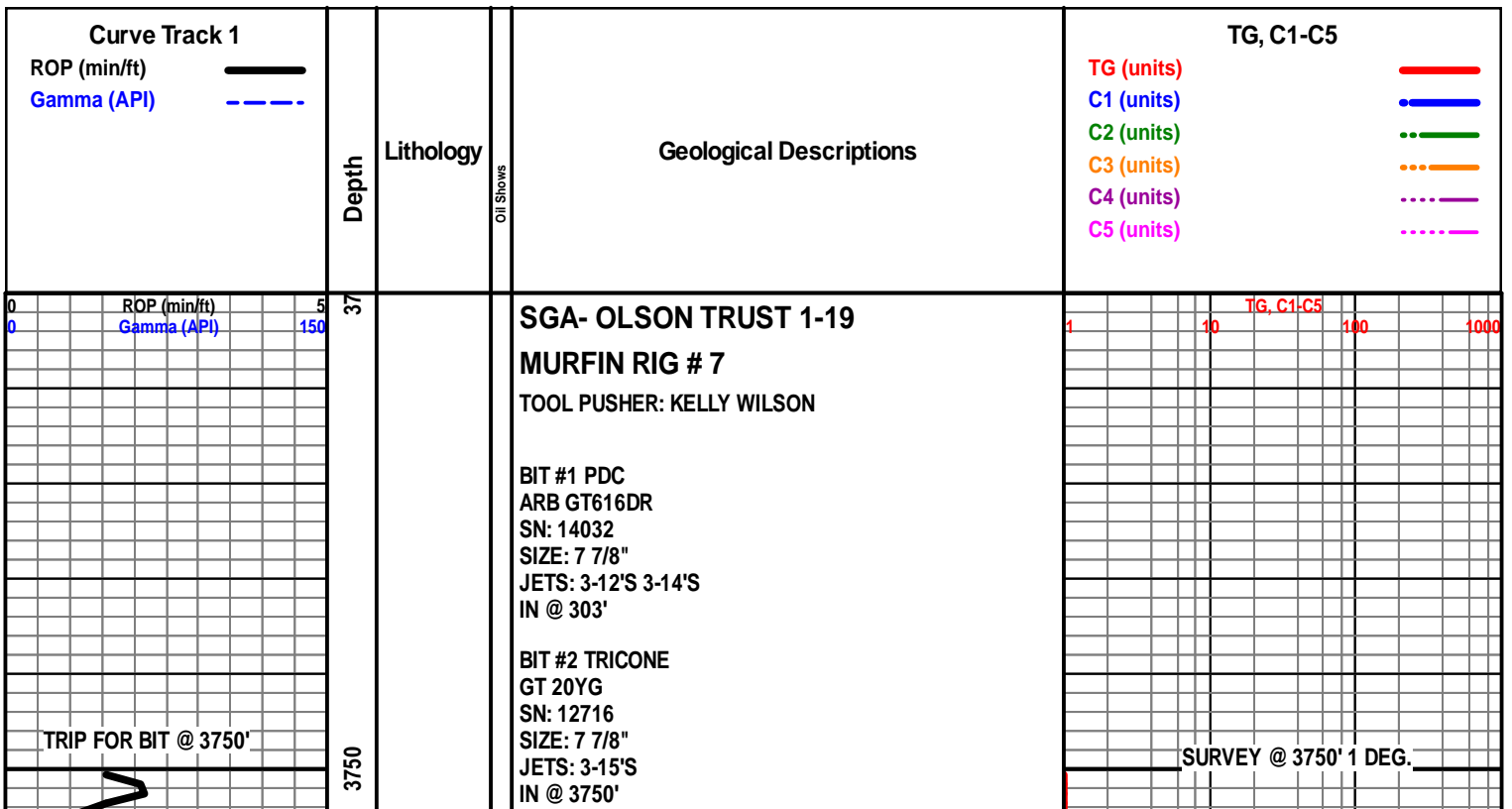
- Even
- Spotted
- Ques
- Dead
- Gas show

INTERVALS

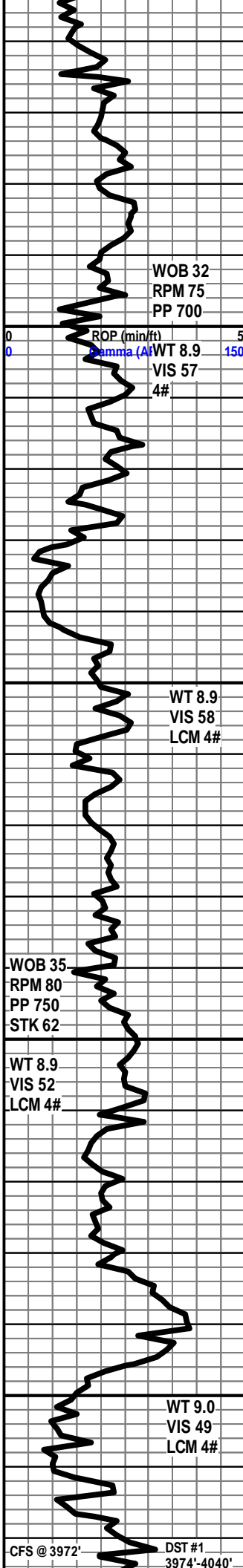
- Core
- Dst
- Dst

EVENTS

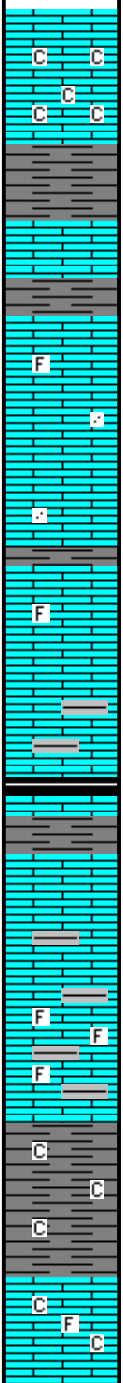
- Rft
- Sidewall



DISPLACE @ 3300' - COMPLETED @ 3355'



3800
3850
3900
3950



START 24 HR. MANNED UNIT 6/20/2015

LS- OFF WHT TO LT GY, BRITT TO SFT, CHLKY TO SUCRO, ABDT SFT WHT CHLK, SPTTD BRIT YEL MIN FLO IN 30%, NO VIS POR, NO SHOW

SH- GY TO GRN, FRM BLKY, SMTH TXT

LS- TN, HD DNS, V/F-FN XLN, TR DLL YEL MIN FLO, NO VIS POR, NO SHOW

SH- RD SFT GMMY, FRM BLKY IP, SMTH TO SLTY TXT

TOPEKA 3862' (-849')

LS- WHT TO OFF WHT, HD DNS, F-XLN, TT SUCRO TO SUB-CHLKY IP, TR IMBD FOSS FRAG, TR IMBD F-GRN QRTZ, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW

LS- WHT TO OFF WHT, HD DNS, V/FN-FN XLN, SUB-CHLKY IP, TR IMBD FOSS FRAG, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW

LS- OFF WHT TO LT GY, HD DNS, F-XLN, SUB-CHLKY IP, TR IMBD LT GY SH, TR IMBD FOSS FRAG, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

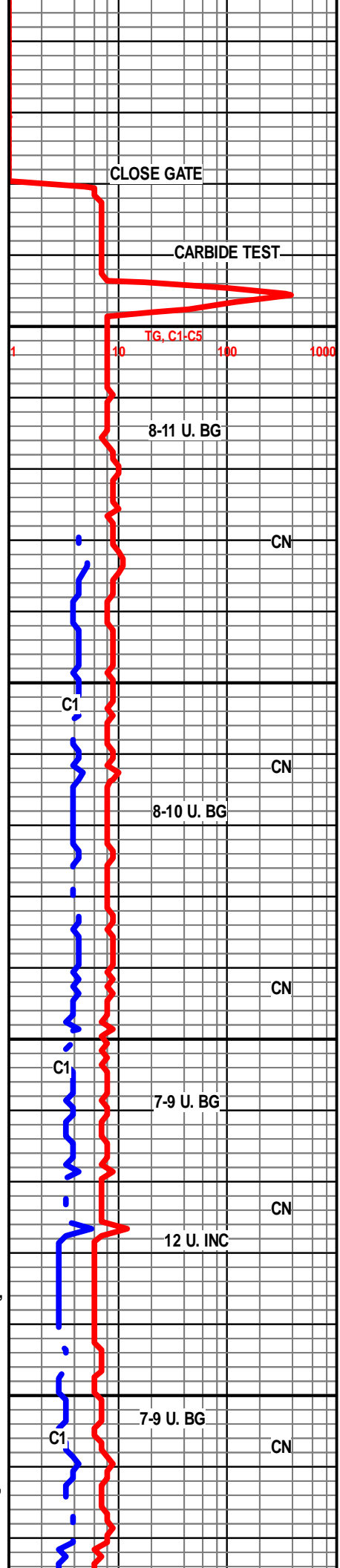
DEER CREEK 3918' (-905')

LS- OFF WHT TO LT GY, PINK IP, BRITT TO HD IP, F-XLN, TT SUCRO TO SUB-CHLKY IP, DISS RED SNDY SH IP, BRIT YEL MIN FLO IN 10%, PR INTER-GRN POR IP, NO VIS CUT OR SHOW

LS- OFF WHT TO PNK, HD TO BRITT, HD IP, V/FN - FN XLN, TT SUCRO IP, ABDT IMBD FOSS FRAG IP, ABDT DISS RD SH, RD TO GY SH IN TRAY, BRIT TO DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

SH- RD GY TO LT GRN, FRM BLKY, SFT GMMY IP, CHLKY TO GMMY LS IN TRAY, SMTH TXT

LS- OFF WHT TO TO CRM, HD DNS TO SFT IP, FN-MD XLN, SLI RE-XLN IP, ABDT SFT WHT CHLK, TR IMBD FOSS FRAG, DLL YEL MIN FLO IN 30%, BRIT YEL IP, PR INTER-XLN POR IN 5%, NO VIS CUT OR SHOW



HEEBNER 3976' (-963')

SH- BLK, GY, FRM BLKY TO SPLNTY, CARB IP, SFT GMMY IP

SH- LT GRN TO RD, FRM BLKY, DISS PYR IP, FN-MD GR SS LENS

3995'-3998' LS- CRM (TN OIL STN IN 15%, HVY BLK TAR 10%), HD DNS, FN-MD XLN, SLI RE-XLN IP, ABDT IMBD OODS IP, SPTTD BRIT YEL GLD IN 10%, PR INTER-XLN POR 4%, FR MICRO VUG POR IN 2%, FR FLSH CUT, GD SLW STRM CUT IN 15%, LT TN LCH ON DISH

SH- GY TO RD, SFT GMMY, FRM BLKY IP, SLI SNDY TO SLTY IP

LANSING 4018' (-1005')

LS- WHT TO OFF WHT, CRM IP, HD TO BRIT, F-XLN, SUB-SUCRO TO SLI RE-XLN MTRX, IMBD OODS/FOSS IP, TR FRM WHT CHLK, DLL SPTTD DLL YEL MIN FLO IN 25%, PR PPPOR IN 5%, TR V/LT RING CUT

4042'-4046' LS- OFF WHT (SPTTD TN OIL STN IN 30%, HD TO BRITT IP, ABDT IMBD OODS, RE-XLN TO TT SUCRO TO SUB- SUCRO MTRX, DLL YEL GLD FLO IN 35%, FR PP POR IN 10%, FR MICRO VUG POR IN 4%, FR-GD FLSH CUT, GD SLW STRM CUT 20%, LT TN LCH ON DISH, BLEEDING GAS/OIL BUBBLE ON SAMPLE, TR LIVE OIL ON SAMPLE

LS- OFF WHT TO WHT, HD DNS, V/FN-MD XLN, IMBD MD GRN QRTZ/CALC XLS IP, TR IMBD RD SH, DLL YEL MIN FLO IN 30%, TR ISOLATED VIS & MICRO-VUG POR, NO SHOW

SH- LT GY TO LT GRN, FRM BLKY, HD CALC IP, SLTY TO WXY TXT IP,

LANSING "D" 4060' (-1047')

LS- WHT, CRM TO TN IP, HD DNS TO SFT BRITT, F-XLN, SUB-CHLKY MTRX IP, WHT CHRT IP, CLR QRTZ GRNZ IP, SFT WHT CHLK, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW

4080'-4081' LS-WHT (TN TO BLK OIL STN IN 5%), HD TO BRITT IP, F-XLN, SLI SUCRO IP, SPTTD BRIT YEL GLD FLO IN 5%, PR INTER-XLN POR IN 2%, TR FR ISOLATED VIS & MICRO VUG, FR FLSH CUT, GD SLW STRM CUT IN 5%

LS- GY BRN TO BLK, GRN IP, FRM BLKY, CALC TO LMY IP, SMTH TO SLTY/SNDY TXT

LANSING "G" 4102' (-1089')

LS- WHT TO OFF WHT, HD TO BRITT, SFT IP, FN-MD XLN, RE-XLN IP, TR IMBD FOSS FRAG, SFT GMMY WHT CHLK IP, DLL YEL MIN FLO IN 40%, TR PR-FR MICRO VUG POR, NO VIS CUT OR SHOW

LS- OFF WHT TO LT GY, HD DNS, V/FN-MD XLN, TT SUCRO IP, ABDT IMBD OODS IP, TR IMBD & FREE WHT CHRT, SFT GMMY WHT CHLK IP, DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW

SH RD GRN TO BLK, FRM TO SFT GMMY, DISS PYR IP, WHT GMMY CHLK TO SLI SUCRO LS IP

LS- OFF WHT CRM TO LT GY, HD DNS, V/FN-FN XLN, SUB-CHLKY IP, ABDT IMBD FOSS FRAG IP, ARG TO SHLY IP, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW

LS- WHT TO OFF WHT, F-XLN, SUB-CHLKY IP, TT SUCRO MTRX IP, ABDT IMBD FOSS FRAG IP, FRM CHLK IP, DLL YEL MIN FLO IN 25%, TR PR INTER-FOSS POR, NO VIS CUT OR SHOW

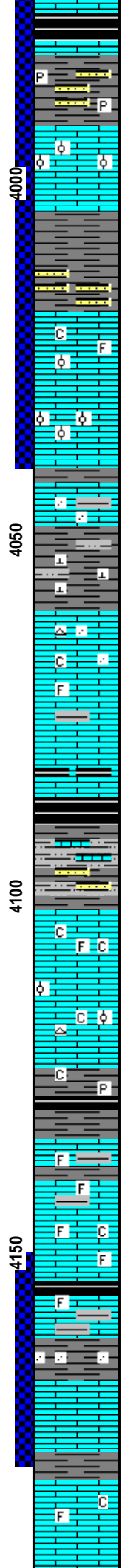
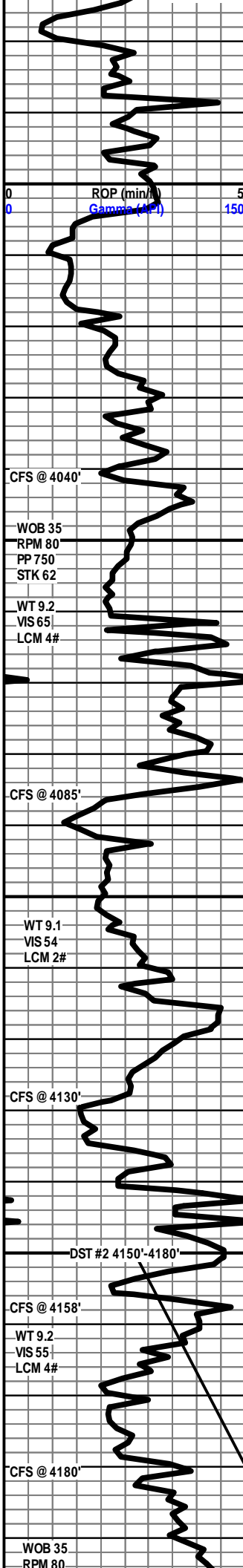
LS- WHT TO OFF WHT, HD DNS, F-XLN, TT SUCRO IP, IMBD FOSS FRAG IP, ARG TO SHLY IP, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW

SH- BRN, GY, FRM TO SFT, IMBD F-MD GRN QRTZ

LS- CRM (TN OIL STN 20%), HD TO BRITT, F-XLN IP, V/RE-XLN MTRX IP, SPTTD DLL YEL GLD FLO IN 30%, FR INTER-XLN POR IN 5%, FR-GD VIS & MICRO VUG POR IN 3%, GD FLSH CUT, GD SLW STRM CUT IN 15%, LT TN LCH ON DISH, FEW BLEEDING OIL/GAS BUBBLES, TR OIL ON SAMPLE CUP

LANSING "J" 4183' (-1170')

LS- OFF WHT WHT TO LT GY, HD DNS, F-XLN, SLI SUB-CHLKY IP, TR ABDT IMBD MICRO FOSS, DLL YEL MIN FLO IN 50%, NO VIS POR, NO SHOW



SH- BLK, GY, FRM BLKY TO SPLNTY, CARB IP, SFT GMMY IP

SH- LT GRN TO RD, FRM BLKY, DISS PYR IP, FN-MD GR SS LENS

3995'-3998' LS- CRM (TN OIL STN IN 15%, HVY BLK TAR 10%), HD DNS, FN-MD XLN, SLI RE-XLN IP, ABDT IMBD OODS IP, SPTTD BRIT YEL GLD IN 10%, PR INTER-XLN POR 4%, FR MICRO VUG POR IN 2%, FR FLSH CUT, GD SLW STRM CUT IN 15%, LT TN LCH ON DISH

SH- GY TO RD, SFT GMMY, FRM BLKY IP, SLI SNDY TO SLTY IP

LANSING 4018' (-1005')

LS- WHT TO OFF WHT, CRM IP, HD TO BRIT, F-XLN, SUB-SUCRO TO SLI RE-XLN MTRX, IMBD OODS/FOSS IP, TR FRM WHT CHLK, DLL SPTTD DLL YEL MIN FLO IN 25%, PR PPPOR IN 5%, TR V/LT RING CUT

4042'-4046' LS- OFF WHT (SPTTD TN OIL STN IN 30%, HD TO BRITT IP, ABDT IMBD OODS, RE-XLN TO TT SUCRO TO SUB- SUCRO MTRX, DLL YEL GLD FLO IN 35%, FR PP POR IN 10%, FR MICRO VUG POR IN 4%, FR-GD FLSH CUT, GD SLW STRM CUT 20%, LT TN LCH ON DISH, BLEEDING GAS/OIL BUBBLE ON SAMPLE, TR LIVE OIL ON SAMPLE

LS- OFF WHT TO WHT, HD DNS, V/FN-MD XLN, IMBD MD GRN QRTZ/CALC XLS IP, TR IMBD RD SH, DLL YEL MIN FLO IN 30%, TR ISOLATED VIS & MICRO-VUG POR, NO SHOW

SH- LT GY TO LT GRN, FRM BLKY, HD CALC IP, SLTY TO WXY TXT IP,

LANSING "D" 4060' (-1047')

LS- WHT, CRM TO TN IP, HD DNS TO SFT BRITT, F-XLN, SUB-CHLKY MTRX IP, WHT CHRT IP, CLR QRTZ GRNZ IP, SFT WHT CHLK, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW

4080'-4081' LS-WHT (TN TO BLK OIL STN IN 5%), HD TO BRITT IP, F-XLN, SLI SUCRO IP, SPTTD BRIT YEL GLD FLO IN 5%, PR INTER-XLN POR IN 2%, TR FR ISOLATED VIS & MICRO VUG, FR FLSH CUT, GD SLW STRM CUT IN 5%

LS- GY BRN TO BLK, GRN IP, FRM BLKY, CALC TO LMY IP, SMTH TO SLTY/SNDY TXT

LANSING "G" 4102' (-1089')

LS- WHT TO OFF WHT, HD TO BRITT, SFT IP, FN-MD XLN, RE-XLN IP, TR IMBD FOSS FRAG, SFT GMMY WHT CHLK IP, DLL YEL MIN FLO IN 40%, TR PR-FR MICRO VUG POR, NO VIS CUT OR SHOW

LS- OFF WHT TO LT GY, HD DNS, V/FN-MD XLN, TT SUCRO IP, ABDT IMBD OODS IP, TR IMBD & FREE WHT CHRT, SFT GMMY WHT CHLK IP, DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW

SH RD GRN TO BLK, FRM TO SFT GMMY, DISS PYR IP, WHT GMMY CHLK TO SLI SUCRO LS IP

LS- OFF WHT CRM TO LT GY, HD DNS, V/FN-FN XLN, SUB-CHLKY IP, ABDT IMBD FOSS FRAG IP, ARG TO SHLY IP, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW

LS- WHT TO OFF WHT, F-XLN, SUB-CHLKY IP, TT SUCRO MTRX IP, ABDT IMBD FOSS FRAG IP, FRM CHLK IP, DLL YEL MIN FLO IN 25%, TR PR INTER-FOSS POR, NO VIS CUT OR SHOW

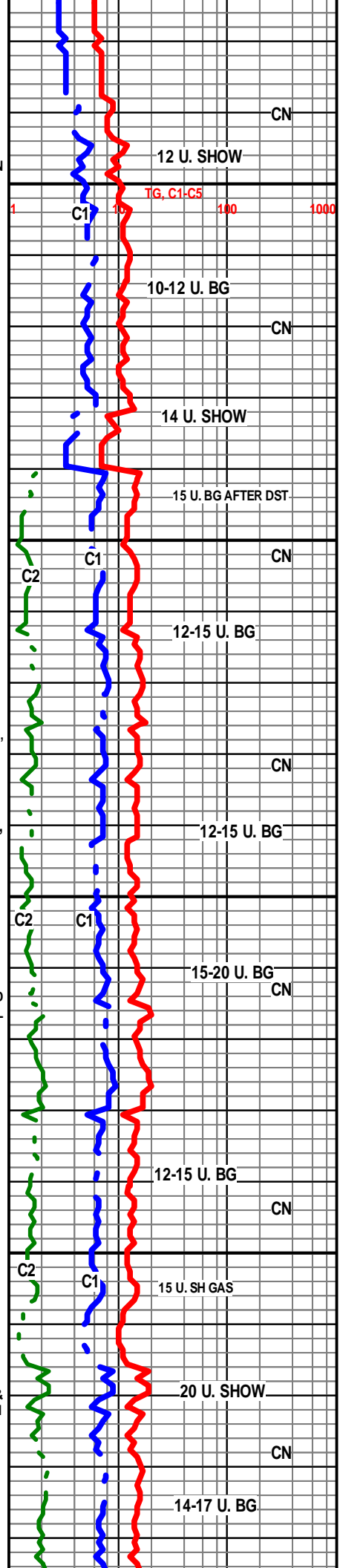
LS- WHT TO OFF WHT, HD DNS, F-XLN, TT SUCRO IP, IMBD FOSS FRAG IP, ARG TO SHLY IP, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW

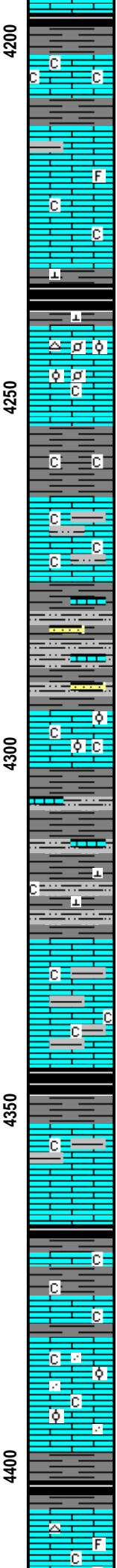
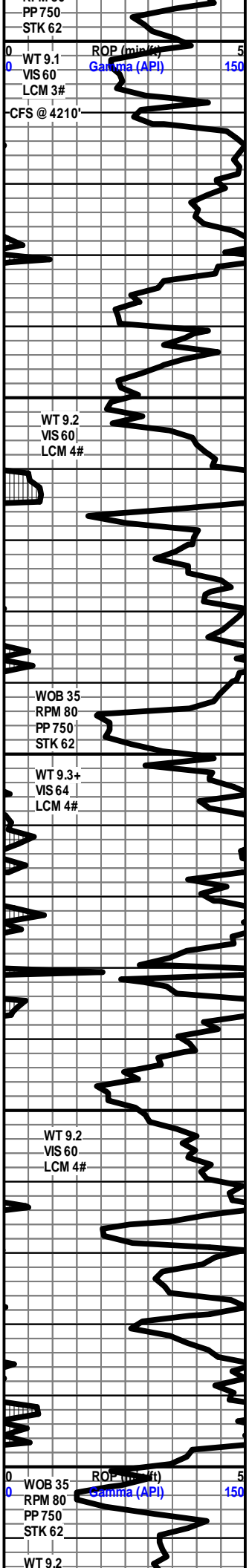
SH- BRN, GY, FRM TO SFT, IMBD F-MD GRN QRTZ

LS- CRM (TN OIL STN 20%), HD TO BRITT, F-XLN IP, V/RE-XLN MTRX IP, SPTTD DLL YEL GLD FLO IN 30%, FR INTER-XLN POR IN 5%, FR-GD VIS & MICRO VUG POR IN 3%, GD FLSH CUT, GD SLW STRM CUT IN 15%, LT TN LCH ON DISH, FEW BLEEDING OIL/GAS BUBBLES, TR OIL ON SAMPLE CUP

LANSING "J" 4183' (-1170')

LS- OFF WHT WHT TO LT GY, HD DNS, F-XLN, SLI SUB-CHLKY IP, TR ABDT IMBD MICRO FOSS, DLL YEL MIN FLO IN 50%, NO VIS POR, NO SHOW





SH- GY TO BLK, FRM BLKY, SFT IP, CARB IP, SMTH TXT

LS- WHT TO OFF WHT, HD TO BRITT, SFT IP, F-XLN, SUB-CHLKY TOABDT SFT WHT CHLK, BRIT YEL MIN FLO IN 30%, NO VIS POR, NO SHOW

LS- OFF WHT TO LT GY, HD DNS, TR BRITT, V/FN-FN XLN, SUB-SUCRO TO SUB-CHLKY IP, TR IMBD LT GY SH, TR IMBD FOSS FRAG, DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW

LS- OFF WHT TO TN , HD DNS, F-XLN, SUB-SUCRO TO SUB-CHLKY, FRM TO SFT CHLK IP, DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW

SH- LT TO MD GY, BLK, PRPL, FRM BLKY, HD IP, CALC IP, TR CARB

LS-CRM OFF WHT TO LT GY, HD DNS, TR BRITT, ABDT IMBD OOL/PELLETS, IMBD CLR TO WHT CHRT, FRM CHLK IP, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW

BKC 4253' (-1240')

SH- LT TO MD GY, RD TO YEL, SFT GMMY TO FRM IP, SLI CHLKY IP, SMTH TO SLTY TXT

LS-WHT CRM TO LT GY, HD TO BRITT SFT, F-XLN TO V/ CHLKY, SLI SLTY TO SHLY IP, DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW

SH- BRN GY TO RD, LT GRN, FRM BLKY TO SFT GMMY, DISS PYR IP, CALC TO LMY IP, SNDY TO SLTY IP

LS- OFF WHT TO CRM, HD DNS, F-XLN, SUB-SUCRO TO SUB-CHLKY IP, ABDT IMBD OODS IP, SFT WHT CHLK IP, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW

SH- RD BRN GRN TO GY, SFT GMMY TO FRM, SLI SPNTY TO BLKY IP, CHLKY LS IP, SMTH TO SLTY TXT

SH- RD BRN, LT GRN, FRM TO SFT GMMY, CALC IP, SLTY TXT

LS- WHT TO LT GY, HD TO BRITT, SFT, F-XLN, SUB-CHLKY TO SUB-SUCRO, IMBD LT RD TO BRN SH, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

LABETTE SHALE 4344' (-1331')

SH- GY, BLKY, BRN, FRM TO SFT, SPLNTY IP, BLKY IP, TR CARB, SMTH TXT

LS- OFF WHT TO CRM, HD DNS, F-XLN, SUB-SUCRO TO SLI RE-XLN IP, SFT WHT CHLK IP, TR IMBD LT GY SH, TR IMBD OODS, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

SH- LT TO MD GY, FRM BLKY TO SPLNTY, SMTH TXT

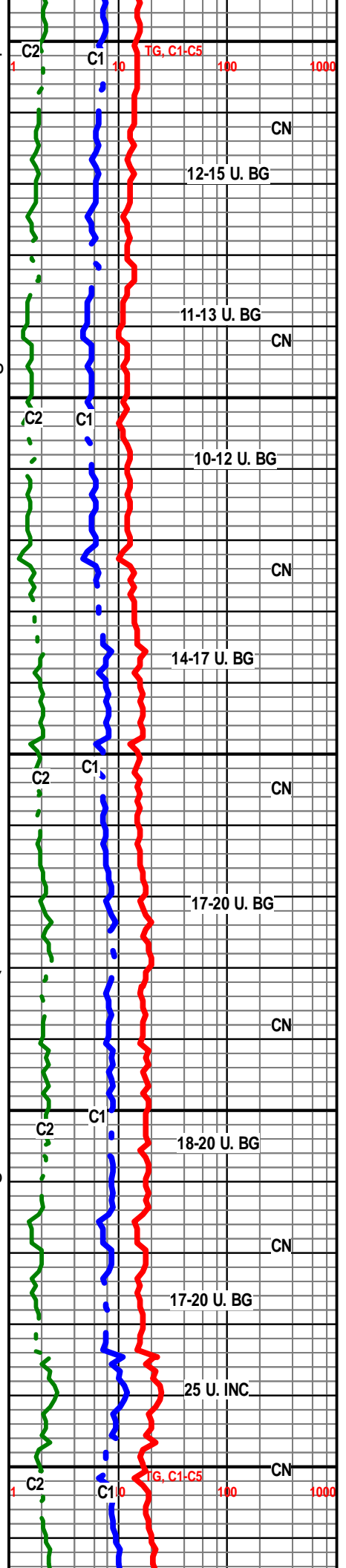
LS- OFF WHT TO LT GY, HD TO BRITT, SFT IP, F-XLN, SUB-SUCRO TO SUB-CHLKY, SFT GMMY CHLK, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW

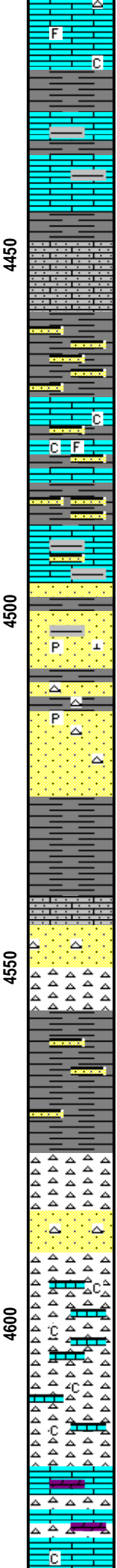
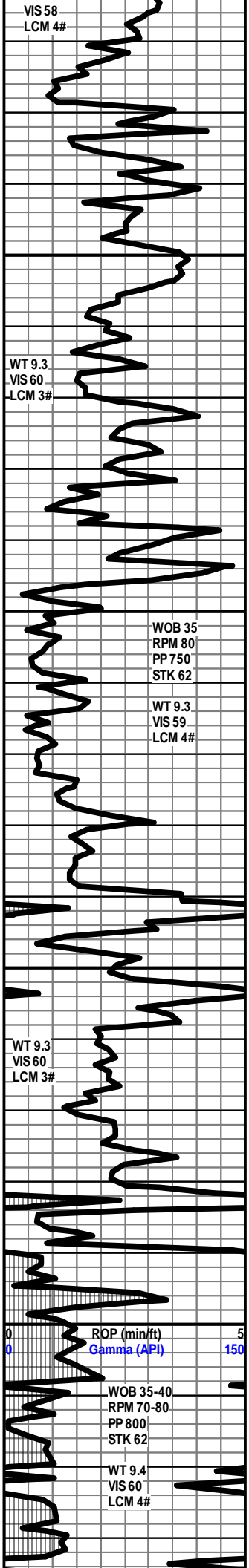
LS- OFF WHT TO CRM, HD TO BRITT, SFT IP, F-XLN, SUB-SUCRO TO SUB-CHLKY MTRX, IMBD F-GRN QRTZ, TR IMBD OODS, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW

SH- LT TO MD GY, BLK IP, RD, FRM, SPLNTY, SFT GMMY IP, TR CARB

FT SCOTT 4408' (-1395')

LS- OFF WHT TO LT GY, HD DNS, F/FN-FN XLN, TR RE-XLN MTRX, SUB-CHLKY IP, ABDT TN CHRT IN TRAY, TR IMBD FOSS & FREE FOSS FRAG, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW





LS- WHT TO OFF WHT, HD TO BRITT, SFT IP, F-XLN, SUB-SUCRO TO SUB-CHLKY, SFT WHT CHLK IP, TR IMBD MICRO FOSS DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW

SH- LT TO MD GY, BRN, FRM, SPLNTY, BLKY IP, TN CHRT IN TRAY, SMTH TXT

LS- CRM TO OFF WHT, LT GY, HD DNS, F-XLN, SUB-CHLKY IP, IMBD MD GRN CALC XLS, TR IMBD LT GY SH, DLL YEL MIN FLO IN 30%, TR PR MICRO VUG POR, NO VIS CUT OR SHOW

SNDY LS- CRM TO OFF WHT, HD DNS, F-XLN, RE-XLN MTRX IP, TT SCURO IP, ABDT IMBD FN-MD GRN QRTZ, S-RND QRTZ, FR SRT, DLL YEL MIN FLO IN 20%, PR INTER-GRN POR IP, NO VIS CUT OR SHOW

SH- BRN RD LT GY, FRM TO SFT GMMY IP, SPLNTY IP, MD GRN CALC CMNT SS LENS IP

LS- TN, HD DNS, V/FN-FN XLN, TR IMBD FOSS FRAG, ABDT SS CLSTR, SFT WHT CHLK IP, IMBD FOSS FRAG IP, ARGIL TO SHLY, NO FLO, NO VIS POR, NO SHOW

SH- GY TO RD, FRM BLKY, FN-MD GRN SS LENS IP

LS- CRM TO TN, HD DNS, F-XLN, ABDT IMBD F-GRN QRTZ IP, IMBD GY SH IP, NO FLO, NO VIS POR, NO SHOW

SS- FRSTY CLR, PNK IP, QRTZ GRNS, HD TO V/ FRI, UNCONSOLIDATED GRNS IP, FN-MD GRN, CRS TO PBBLE IP, S-RND GRNS, PR SRT, CALC CMNT, ABDT RD TO GY GMMY SH IN TRAY, GLAUC IP, DISS PYR IP, FR INTER-GRN POR IN 30%, NO VIS CUT OR SHOW

SS- PNK TO FRSTY, ORNG, QRTZ GRNS, HD, UNCONSOLIDATED GRNS, CRS TO PBBLE GRNS, S-RND GRNS, PR SRT, SIL CMNT IP, ABDT ORNG CHRT, DISS PYR IP, FR-GD INTER-GRN POR THRU , NO VIS CUT OR SHOW

SH- LT TO MD GY, BRN TO RD IP, FRM SPLNTY, BLKY IP, SMTH TXT

LS- WHT TO OFF WHT, HD DNS, F-XLN, ABDT IMBD FN-MD GRN QRTZ, NO FLO, TR PR INTER-GRN POR, NO SHOW

SS- FRSTY TO PNK, QRTZ GRNS, UNCONSOLIDATED GRNS, CRS TO PBBL, S-RND GRNS, PR SRT, SIL CMNT IP, ABDT FREE CHRT, NO FLO, GD INTER-GRN POR THRU, NO SHOW

SH- RD BRN TO GRN, FRM BLKY TO SPLNTY IP, FN-MD GRN WHT SS LENS

CHRT- WHT TO OFF WHT, ORNG, HD DNS, CRYPTO-XLN, ANG TO SUB-ANG, NO FLO, NO VIS POR, NO SHOW

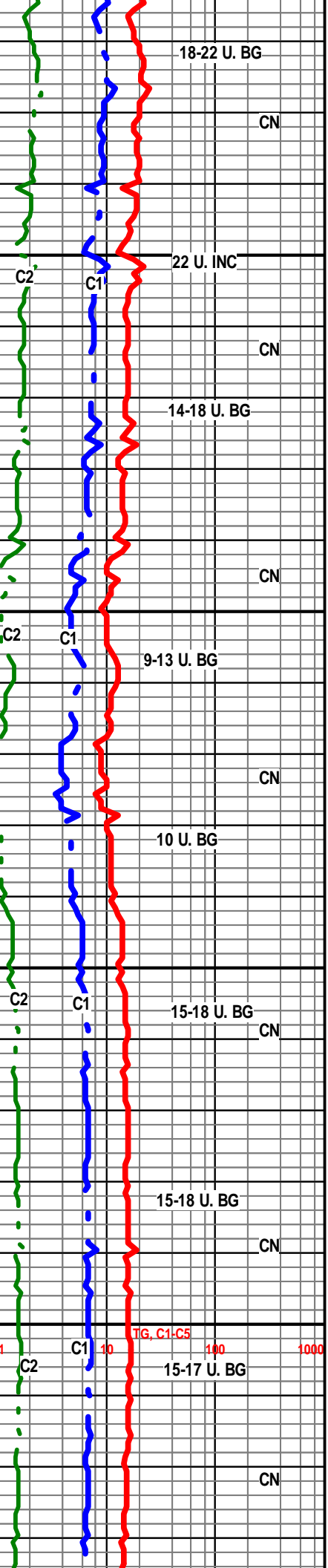
SS- PNK, FRSTY, CLR IP, QRTZ GRNS, UNCONSOLIDATED GRNS, CRS TO PBBL, S-RND GRNS, SIL CMNT IP, ABDT ANG WHT TO ORNG CHRT, TR DISS PYR, NO FLO, FR-GD INTER-GRN POR, NO SHOW

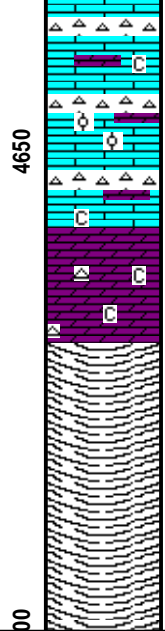
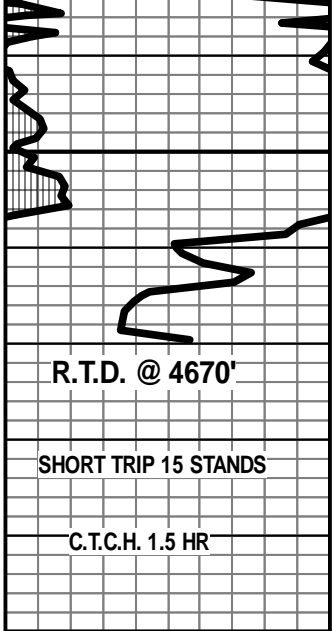
MISSISSIPPIAN 4590' (-1577')

CHRT- CRM WHT ORNG, CLR IP, HD DNS, CRYPTO-XLN, ANG GRNS, WHT SUB-CHLKY LS IP, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

CHRT - WHT CRM ORNG, HD DNS, CRYPTO-XLN, ANG GRNS, WHT CHLKY LS IP, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

LS- WHT TO OFF WHT, HD DNS, BRITT IP, F-XLN, TT SUCRO TO SUB-CHLKY IP, SLI DOLO IP, ABDT S-ANG WHT TO CRM CHRT IN TRAY, DLL YEL MIN FLO IN 60%, PR INTER-XLN POR IP, NO VIS CUT OR SHOW





LS- WHT TO OFF WHT, HD DNS, BRITT IP, TR SFT, F-XLN, TT SUCRO IP, RE-XLN OIDS IP, IMBD & FREE WHT TO CRM CHRT, SLI DOLO IP, SFT WHT CHLK IP, DLL YEL MIN FLO IN 60%, PR-FR INTER-XLN POR IP, NO VIS CUT OR SHOW

DOLO- CRM TO BRN, BRITT TO SFT IP, F-XLN TO SUCRO, SCAT WHT TO CRM CHRT IN TRAY, SFT WHT CHLK IP, DLL YEL MIN FLO IN 40%, FR INTER-XLN POR IN 5%, NO VIS CUT OR SHOW

R.T.D. @ 4670'

SHORT TRIP 15 STANDS

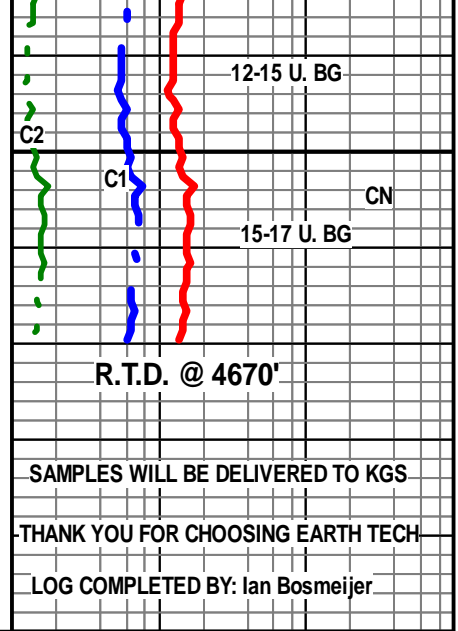
C.T.C.H. 1.5 HR

R.T.D. @ 9:30 AM 6/24/2015

DROP SURVEY

T.O.F.L. @ 12:00 PM 6/24/2015

WEATHERFORD/ LIBERAL, KS



12-15 U. BG

C2

C1

CN

15-17 U. BG

R.T.D. @ 4670'

SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

LOG COMPLETED BY: Ian Bosmeijer