

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1261118
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: _____

1261118

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC 063867

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Oakley 16

DATE <u>4/22/15</u>	SEC. <u>11</u>	TWP. <u>2</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION	JOB START <u>10:30</u>	JOB FINISH <u>10:00</u>
LEASE <u>Energy Trust</u> WELL #		LOCATION <u>McDonald w to CL 9 3/4 N</u>			COUNTY <u>Winkler</u>	STATE <u>TX</u>	
OLD OR NEW (Circle one) <u>NEW</u>		<u>Bl 4 East</u>					

CONTRACTOR <u>Murphy 8</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>302</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>302</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>18,28</u>	
EQUIPMENT	
PUMP TRUCK CEMENTER <u>Alan Ryan</u>	
# <u>422</u>	HELPER <u>Brandon Wilkinson</u>
BULK TRUCK	
# <u>891</u>	DRIVER <u>Brandon Kevin Ryan</u>
BULK TRUCK	
#	DRIVER
CEMENT	
AMOUNT ORDERED <u>250 cu 370cc</u>	
COMMON <u>250</u>	@ <u>17.90</u> <u>4475.00</u>
POZMIX	@
GEL	@
CHLORIDE <u>205</u>	@ <u>1.42</u> <u>292.10</u>
ASC	@
Material Total @ <u>5,250.50</u>	
HANDLING <u>262.5 CF</u> @ <u>2.48</u> <u>651.00</u>	
MILEAGE <u>227 mile 12.103700</u> @ <u>1164.21</u>	
TOTAL	

REMARKS:
Amalg, Circulate, Mix Cement, Alpha Cement, 5' test in
Cement Add Circulate

CHARGE TO: Sam Galy
 STREET _____
 CITY _____ STATE _____ ZIP _____

DEPTH OF JOB	
PUMP TRUCK CHARGE	<u>1512.25</u>
EXTRA FOOTAGE	@
MILEAGE <u>35</u>	@ <u>7.80</u> <u>269.50</u>
MANIFOLD <u>35</u>	@ <u>4.40</u> <u>154.00</u>
TOTAL <u>4,026.66</u>	

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 Travis Martin
 SIGNATURE Travis Martin

SALES TAX (If Any) _____
 TOTAL CHARGES 9,277.16
 DISCOUNT 4,453.03 (48%) IF PAID IN 30 DAYS
4,824.12 Net.



Cement Report

Customer	Samuel Cary Int Assoc	Lease No.		Date	4/30/15
Lease	Krueger Trust	Well #	3-6	Service Receipt	1717-05559A
Casing	5 1/2 95#	Depth	4649.21	County	Rawlins
Job Type	Production	Formation		State	KS
		Legal Description	6/2/36		

Pipe Data		Perforating Data		Cement Data
Casing size	5 1/2 15.5	Tubing Size		Lead
Depth	4649.21	Shots/Ft		4755# Accon @ 11.6
Volume	109.62	From	To	2.76 16.67
Max Press	2000 psi	From	To	Tail in 2005 # Accon @ 14.8
Well Connection	PC	From	To	
Plug Depth	4605.89	From	To	1.54 6.52

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
16:30					Caloc
22:30					Drop Brass Ball
22:34					Pump mid w/ Rig
22:39	900				Open Basket
22:40					Circulate on well
23:20					Safety mts w/ Rig crew + BFE Employees
23:28					Rig up to head
23:34					Pressure test 2000
23:35	100		12 BBL	3	Pump mid Flus
23:45			14.94		Pump Rat hole
23:50			9.8		Pump Mouse hole
23:53	400		233.48	6	Start Cementing Lead
00:27	200			6	Switch to tail
00:40					Shut Down Drop plug - Washup to Pit
00:45					Start Disp.
	250		18	5.9	
	250		20	5.9	
	380		30	5.8	
	608		40	7	
	608		50	7	
	700		60	6.9	
	810		70	7.0	
	1000		80	6.7	

Service Units	86573	27462	30464/37724	30463/19366
Driver Names	Tommy M.	Ed M.	Rojie M.	Hector R

Boomer Trace Davis Tommaso Lavelles

JOB LOG CONT

Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate			Press. (PSI)		Job Description / Remarks
				N2	CSG.	Tbg	CSG.	Tbg	
		6.5	90				1200		
5/1	1:05	6.4	100				1400		Slowly 2.3 @ 1200
	1:09	0	109.62				1300		Handed plug
							1800		Pressured up
	1:12		3B back						Released back & flea didn't hold
	1:13	3	3				2000		Run back into it 3BPM
	1:14						2000		Pressured up &
	1:20								Release back
									Flea hold
									Job complete

Samuel Gary Int Ass.
Krueger Post 3-6
5 1/2 Production
Tommy Marcell



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc. Inc.

6-2s-36w Rawlins, KS

1515 Wynkoop STE 700
Denver, CO, 80202

Krueger Trust #3-6

Job Ticket: 62206

DST#: 1

ATTN: Christopher Mitchell

Test Start: 2015.04.26 @ 23:05:00

GENERAL INFORMATION:

Formation: **LKC "D"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 02:21:00
 Tester: Donovan Baumann
 Time Test Ended: 08:45:30
 Unit No: 82
 Interval: **4336.00 ft (KB) To 4349.00 ft (KB) (TVD)**
 Reference Elevations: 3314.00 ft (KB)
 Total Depth: 4349.00 ft (KB) (TVD)
 3309.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

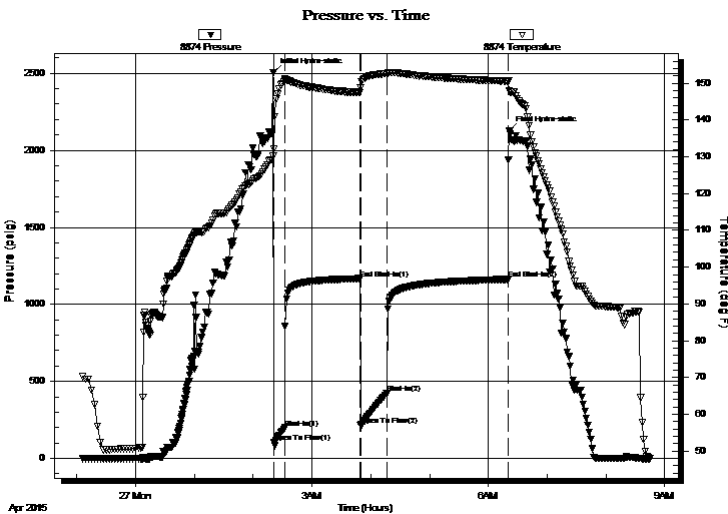
Serial #: 8874

Inside

Press@RunDepth: 422.57 psig @ 4337.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.04.26 End Date: 2015.04.27 Last Calib.: 2015.04.27
 Start Time: 23:06:00 End Time: 08:45:30 Time On Btm: 2015.04.27 @ 02:20:30
 Time Off Btm: 2015.04.27 @ 06:21:30

TEST COMMENT: 10 - IF - Strong surface blow built to 5 in. in 10 min.
 75 - ISI - No return
 30 - FF - Strong surface blow built to BOB in 10 min.
 120 - FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2506.34	130.24	Initial Hydro-static
1	102.63	132.03	Open To Flow (1)
12	198.13	150.70	Shut-In(1)
89	1163.10	147.52	End Shut-In(1)
89	213.69	148.85	Open To Flow (2)
116	422.57	152.60	Shut-In(2)
240	1162.07	150.53	End Shut-In(2)
241	2128.60	147.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
500.00	MCW - 5M - 95W	5.32
388.00	WCM - 30W - 70M	5.44

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc. Inc.

6-2s-36w Rawlins, KS

1515 Wynkoop STE 700
Denver, CO, 80202

Krueger Trust #3-6

Job Ticket: 62206

DST#: 1

ATTN: Christopher Mitchell

Test Start: 2015.04.26 @ 23:05:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:21:00

Time Test Ended: 08:45:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Donovan Baumann

Unit No: 82

Interval: 4336.00 ft (KB) To 4349.00 ft (KB) (TVD)

Total Depth: 4349.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3314.00 ft (KB)

3309.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8520 Fluid

Press@RunDepth: psig @ 4303.00 ft (KB)

Start Date: 2015.04.26

End Date: 2015.04.27

Start Time: 23:06:00

End Time: 08:14:43

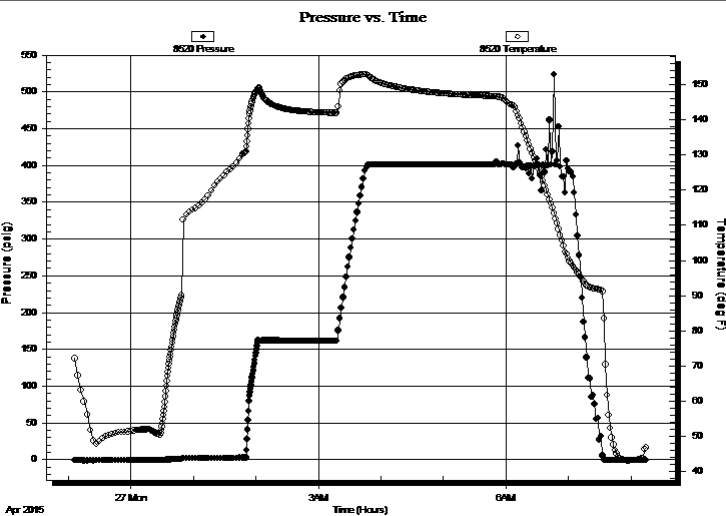
Capacity: 8000.00 psig

Last Calib.: 2015.04.27

Time On Btm:

Time Off Btm:

TEST COMMENT: 10 - IF - Strong surface blow built to 5 in. in 10 min.
75 - ISI - No return
30 - FF - Strong surface blow built to BOB in 10 min.
120 - FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
500.00	MCW - 5M - 95W	5.32
388.00	WCM - 30W - 70M	5.44

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc. Inc.

6-2s-36w Rawlins, KS

1515 Wynkoop STE 700
Denver, CO, 80202

Krueger Trust #3-6

Job Ticket: 62206

DST#: 1

ATTN: Christopher Mitchell

Test Start: 2015.04.26 @ 23:05:00

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:

30000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
500.00	MCW - 5M - 95W	5.323
388.00	WCM - 30W - 70M	5.443

Total Length: 888.00 ft Total Volume: 10.766 bbl

Num Fluid Samples: 0

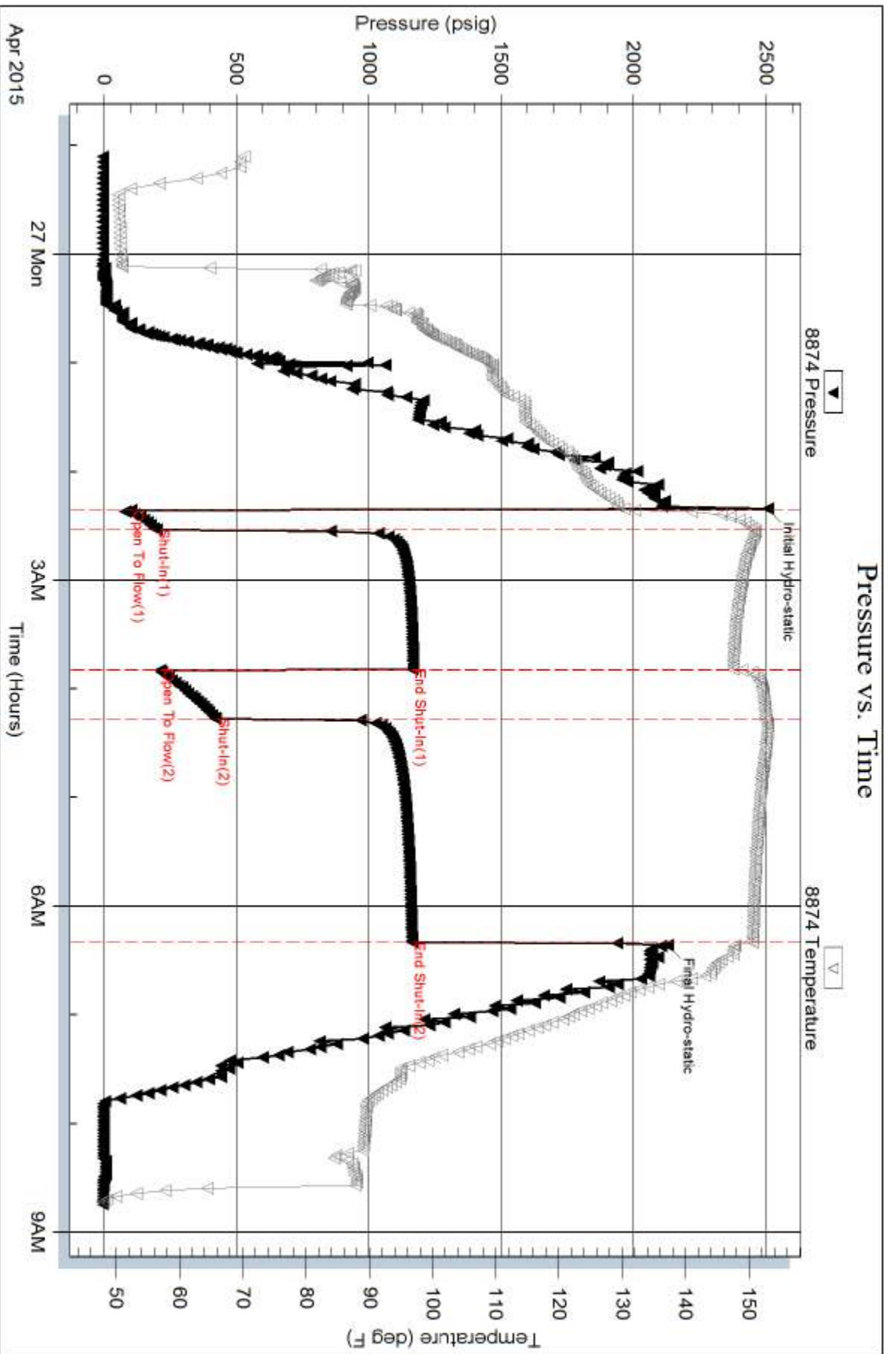
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API RW - .33 @ 50 DEG.



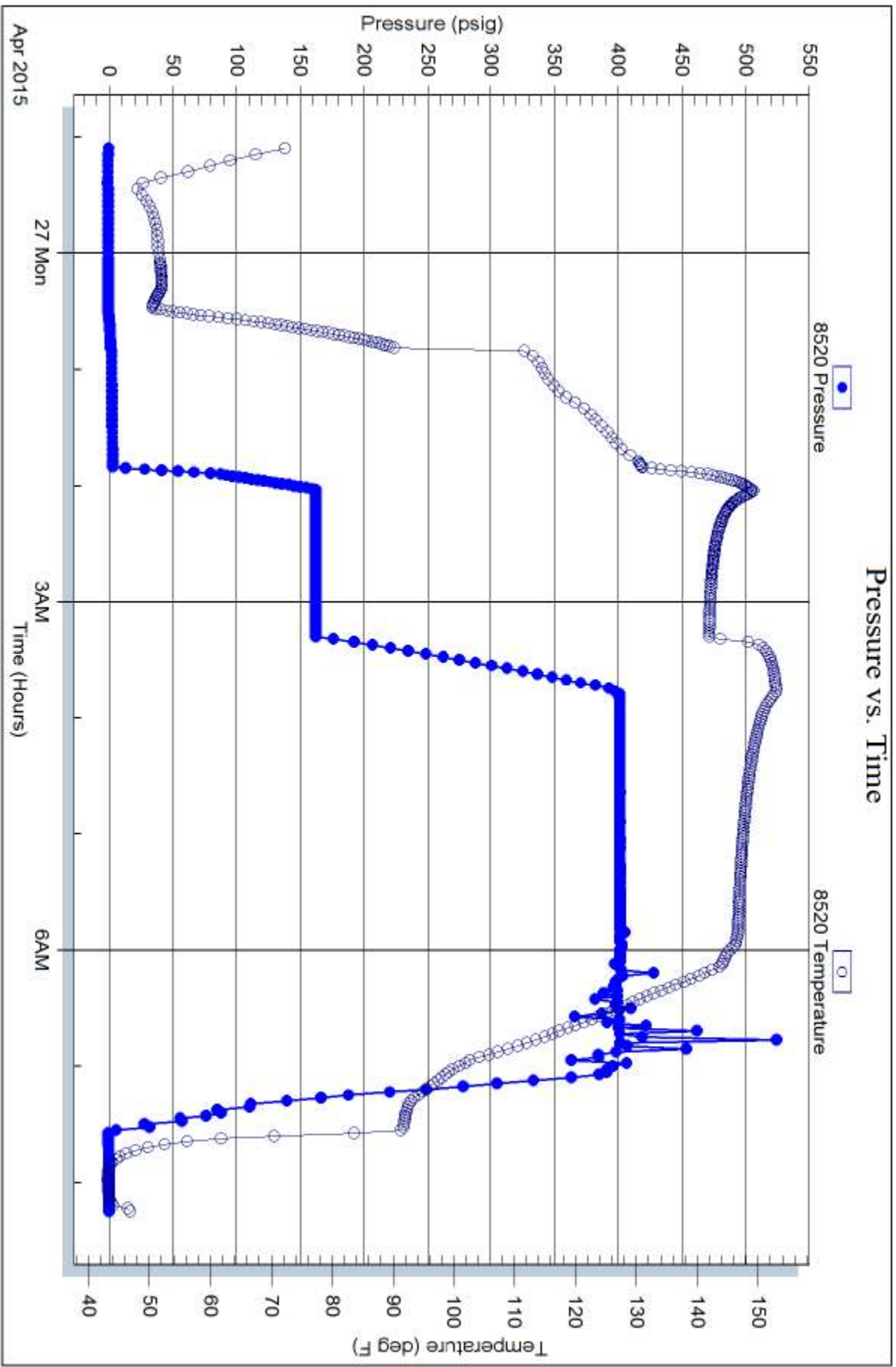
Serial #: 8520

Fluid

Samuel Gary Jr. & Assoc. Inc.

Krueger Trust #3-6

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62206

Printed: 2015.04.27 @ 09:59:37



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc. Inc.

6-2S-36W - Rawlins, KS

1515 Wynkoop STE 700
Denver, CO, 80202

Krueger Trust #3-6

Job Ticket: 62234

DST#: 2

ATTN: Christopher Mitchell

Test Start: 2015.04.27 @ 18:42:00

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:08:30

Time Test Ended: 03:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4362.00 ft (KB) To 4406.00 ft (KB) (TVD)

Reference Elevations: 3314.00 ft (KB)

Total Depth: 4406.00 ft (KB) (TVD)

3309.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874

Inside

Press@RunDepth: 405.25 psig @ 4363.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.04.27

End Date:

2015.04.28

Last Calib.:

2015.04.28

Start Time: 18:43:00

End Time:

03:25:00

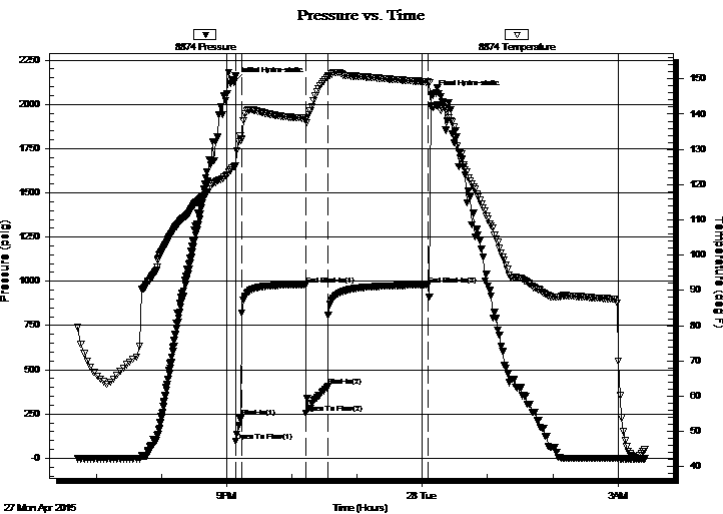
Time On Btm:

2015.04.27 @ 21:07:30

Time Off Btm:

2015.04.28 @ 00:08:30

TEST COMMENT: 5 - IF- BoB in 3 min.
60 - IS- No Return
20 - FF- BoB in 4 min.
90 - FS- Surface Return started at 7 min. Died at 40 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2127.03	125.14	Initial Hydro-static
1	96.43	125.41	Open To Flow (1)
6	230.86	132.64	Shut-In(1)
65	981.97	138.83	End Shut-In(1)
66	253.34	138.42	Open To Flow (2)
86	405.25	150.51	Shut-In(2)
178	980.34	149.10	End Shut-In(2)
181	2053.75	141.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCWO 5M 30W 65o	0.30
125.00	GMCWO 20G 5M 10W 65o	0.61
126.00	MCWO 10M 5W 75o	1.77
315.00	GMCO 40G 20M 40o	4.42
302.00	MCO 20M 80o	4.24

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc. Inc.

6-2S-36W - Rawlins, KS

1515 Wynkoop STE 700
Denver, CO, 80202

Krueger Trust #3-6

Job Ticket: 62234

DST#: 2

ATTN: Christopher Mitchell

Test Start: 2015.04.27 @ 18:42:00

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:08:30

Time Test Ended: 03:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4362.00 ft (KB) To 4406.00 ft (KB) (TVD)

Total Depth: 4406.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3314.00 ft (KB)

3309.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8520

Fluid

Press@RunDepth: psig @ 4329.00 ft (KB)

Start Date: 2015.04.27

End Date: 2015.04.28

Start Time: 18:43:00

End Time: 03:25:00

Capacity: 8000.00 psig

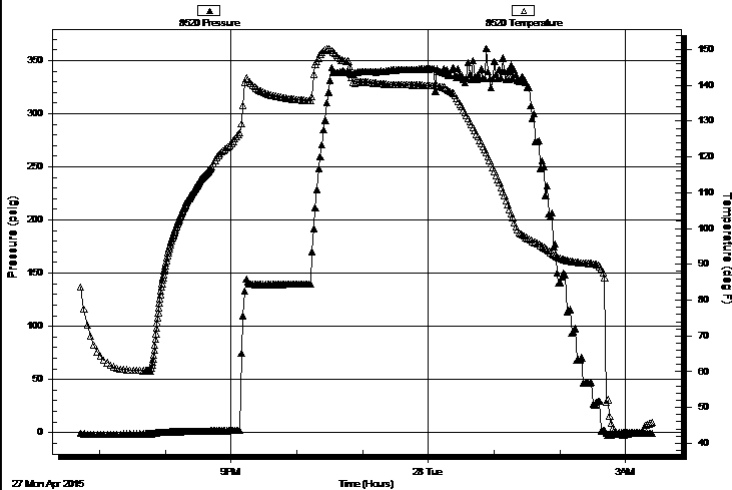
Last Calib.: 2015.04.28

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 - IF- BoB in 3 min.
60 - IS- No Return
20 - FF- BoB in 4 min.
90 - FS- Surface Return started at 7 min. Died at 40 min.

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
60.00	MCWO 5M 30W 65o	0.30
125.00	GMCWO 20G 5M 10W 65o	0.61
126.00	MCWO 10M 5W 75o	1.77
315.00	GMCO 40G 20M 40o	4.42
302.00	MCO 20M 80o	4.24

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc. Inc.

6-2S-36W - Rawlins, KS

1515 Wynkoop STE 700
Denver, CO, 80202

Krueger Trust #3-6

Job Ticket: 62234

DST#: 2

ATTN: Christopher Mitchell

Test Start: 2015.04.27 @ 18:42:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	MCWO 5M 30W 65o	0.295
125.00	GMCWO 20G 5M 10W 65o	0.615
126.00	MCWO 10M 5W 75o	1.767
315.00	GMCO 40G 20M 40o	4.419
302.00	MCO 20M 80o	4.236

Total Length: 928.00 ft Total Volume: 11.332 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

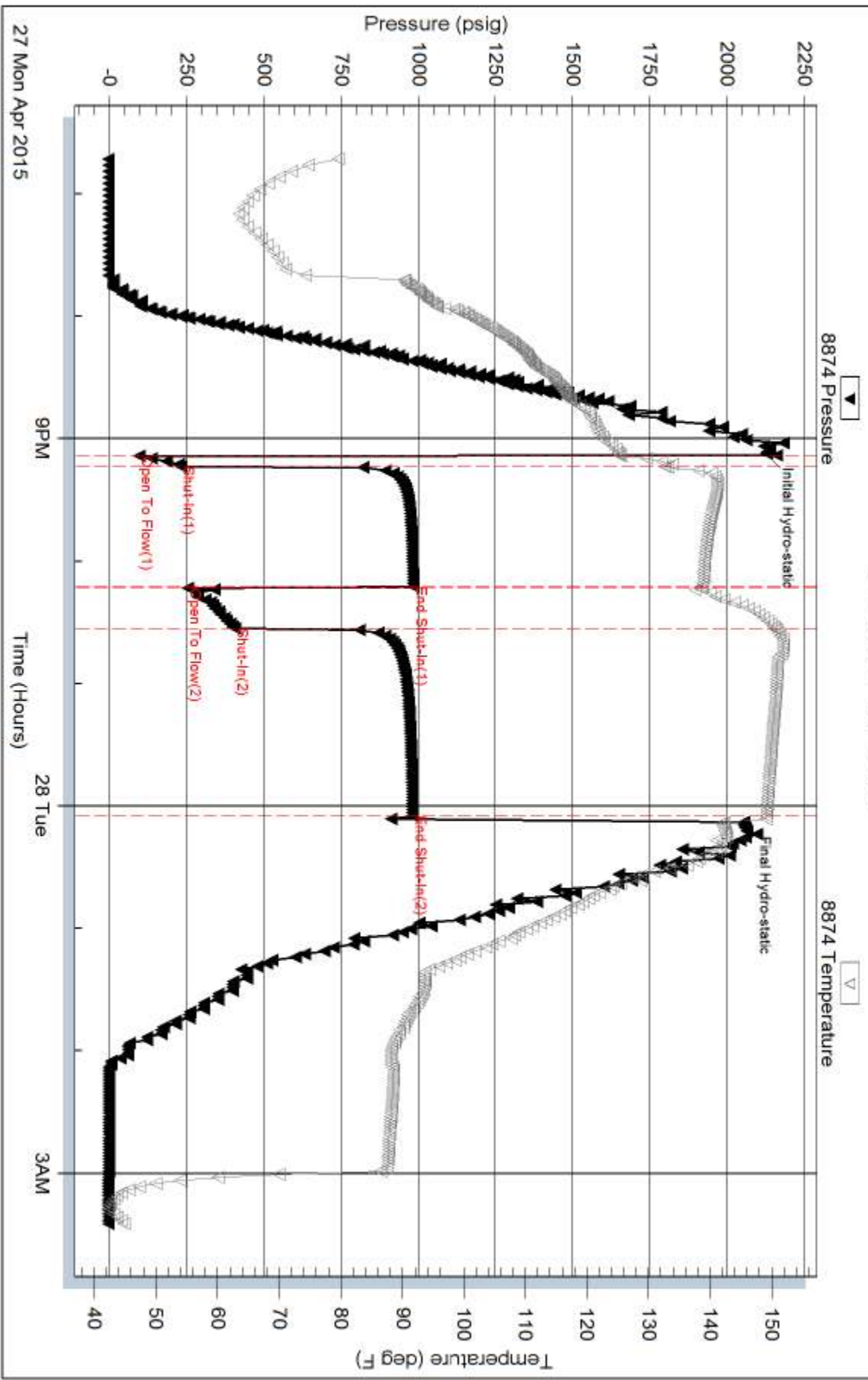
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API = 30 @ 70 deg = 29 corrected

Pressure vs. Time



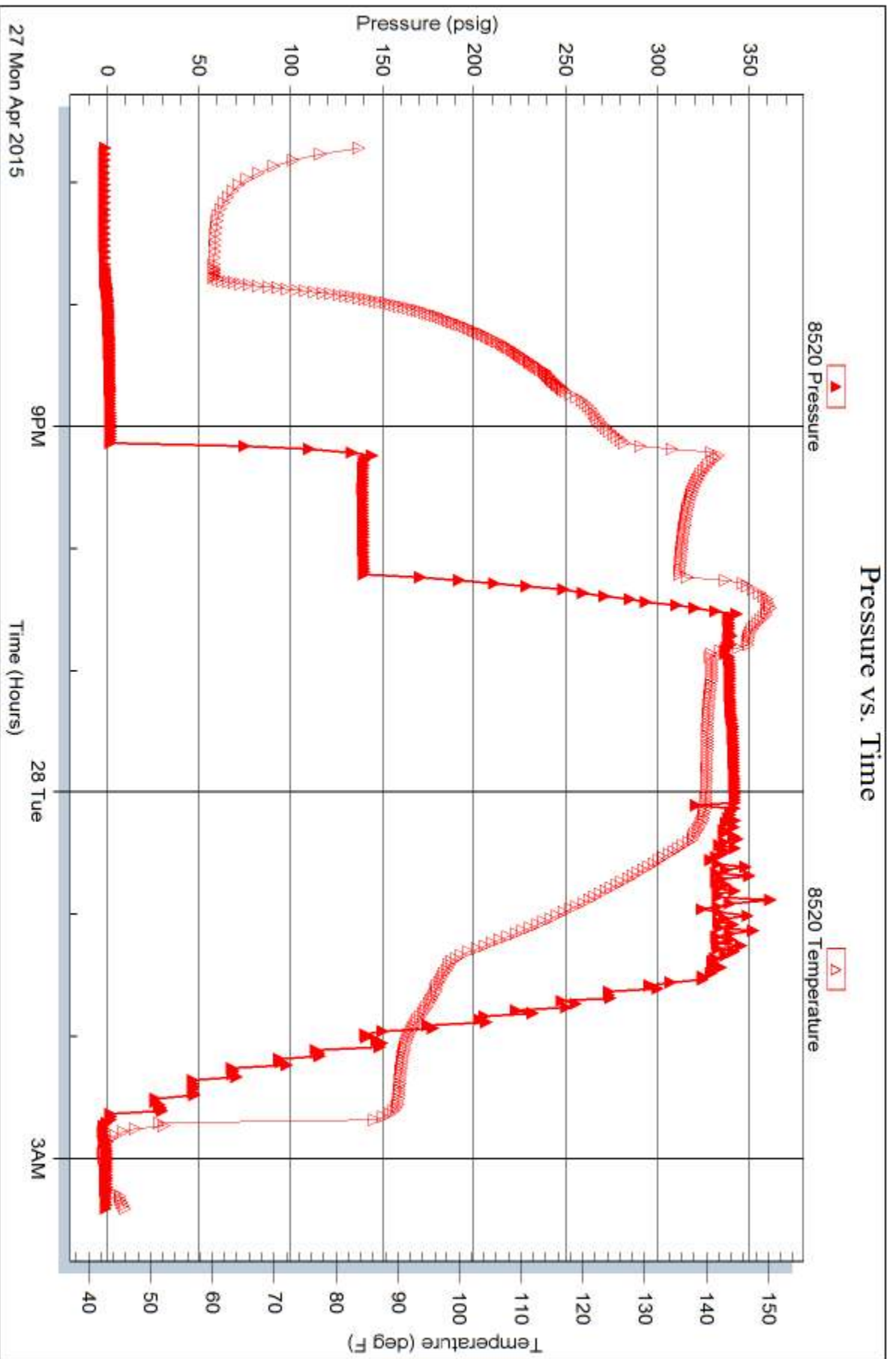
Serial #: 8520

Fluid

Samuel Gary Jr. & Assoc. Inc.

Krueger Trust #3-6

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 62234

Printed: 2015.04.28 @ 08:35:00



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

Well Name: KRUEGER TRUST 3-6
 Well Id:
 Location: SEC. 6-2S-36W RAWLINS COUNTY, KANSAS
 License Number: 15-153-21128-0000 Region: WILDCAT
 Spud Date: APRIL 22, 2015 Drilling Completed: APRIL 29, 2015
 Surface Coordinates: 2280' FNL/ 2151' FEL

Bottom Hole Coordinates:
 Ground Elevation (ft): 3320' K.B. Elevation (ft): 3325'
 Logged Interval (ft): 4000' To: 4801' Total Depth (ft): 4801'
 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: Chris Mitchell

GEOLOGIST

Name: TIM HEDRICK
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla . 73945
 Off. 888-543-8378 Cell: 580-754-0062

ROCK TYPES

Anhy
 Bent
 Brec
 Cht
 Clyst
 Coal
 Congl
 Dol

Gyp
 Igne
 Lmst
 Meta
 Mrlst
 Salt
 Shale
 Shcol

Shgy
 Slstst
 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

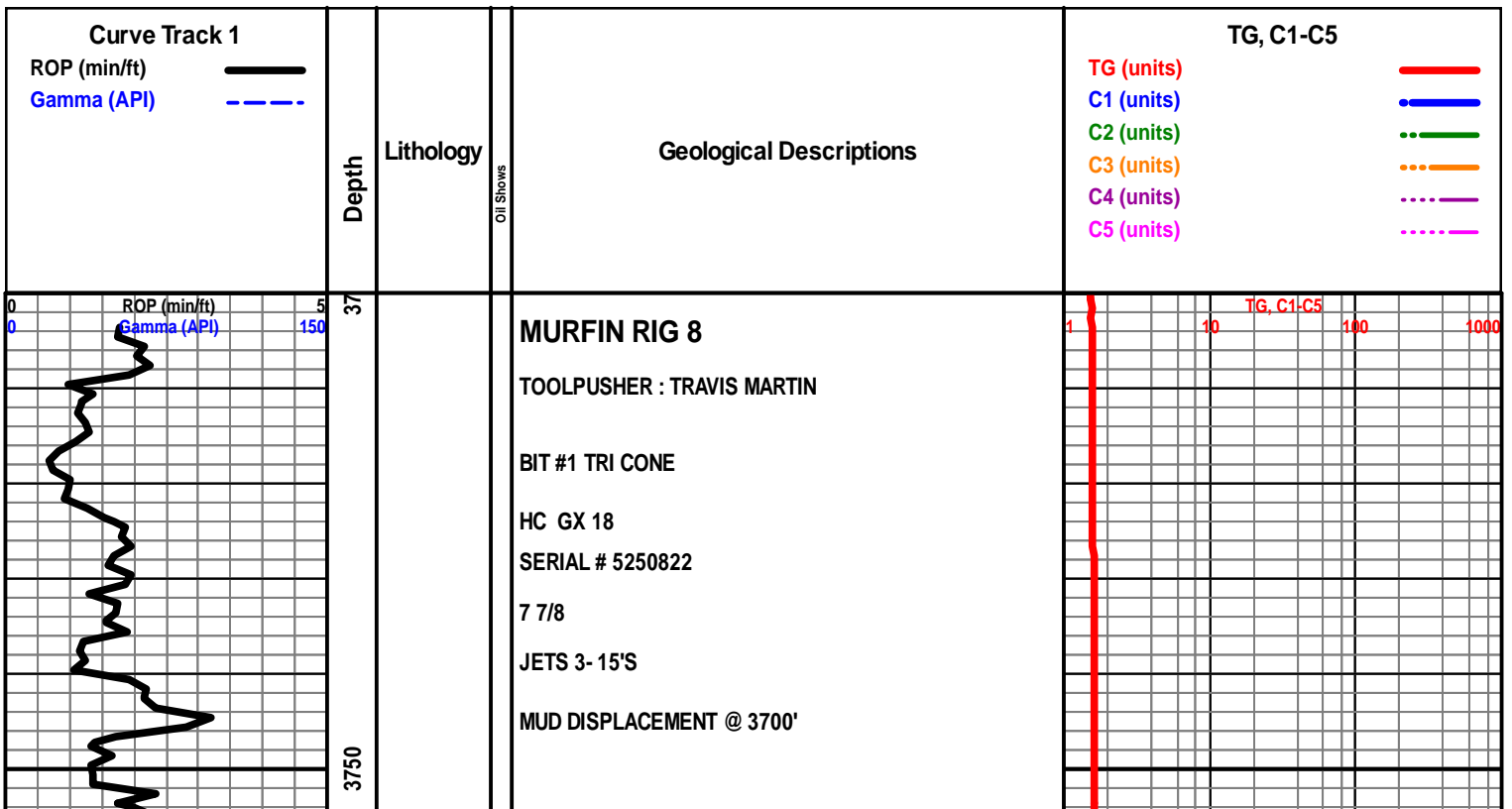
- Even
- Spotted
- Ques
- Dead
- Gas show

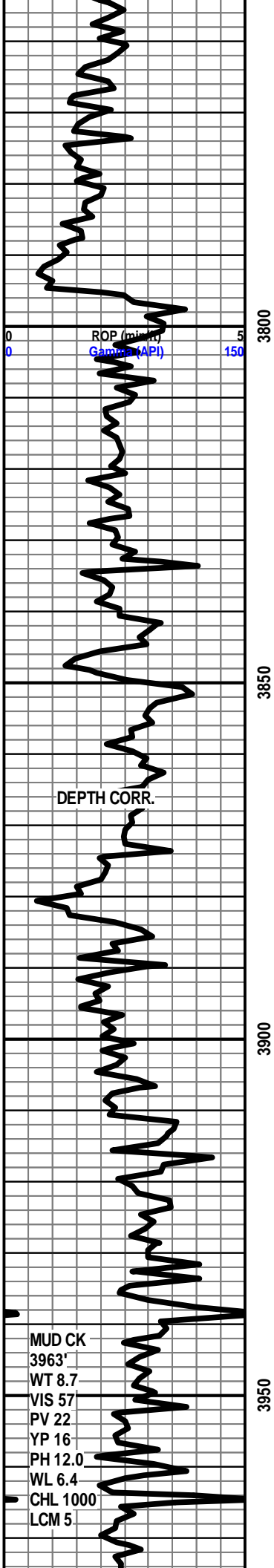
INTERVALS

- Core
- Dst
- Dst

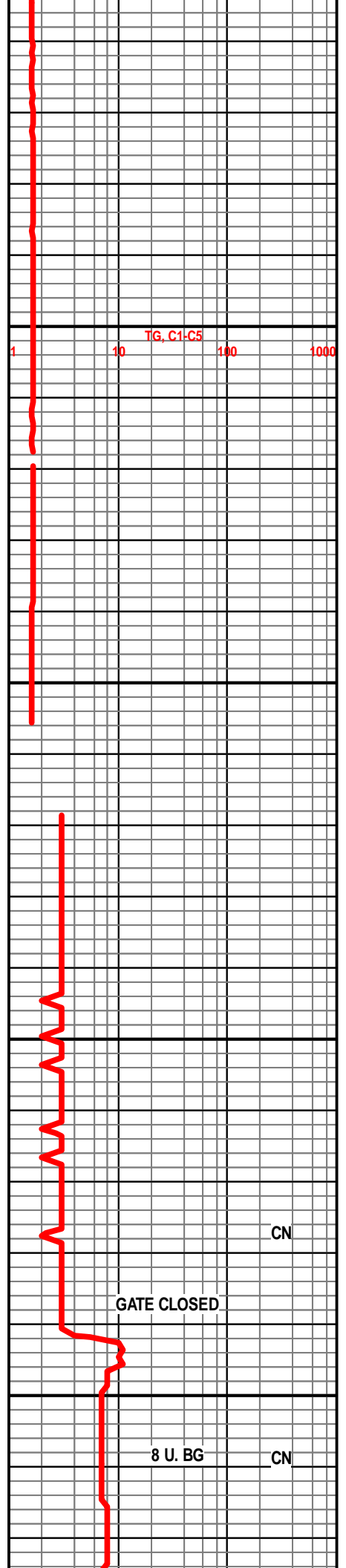
EVENTS

- Rft
- Sidewall





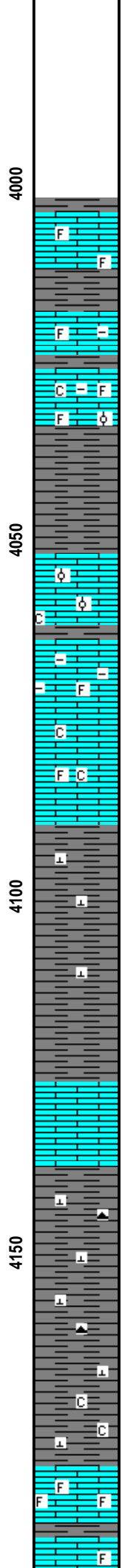
FORAKER 3833' - 508'



MUD CK
3963'
WT 8.7
VIS 57
PV 22
YP 16
PH 12.0
WL 6.4
CHL 1000
LCM 5

CN

CN



SAMPLES START @ 4000'
 STARTED MANNED UNIT APRIL 25,2015

LS- CRM BFF- HD DNS MD-FXLN , RE-XLN IP, ABDT IMBD SCAT FOSS FRGS THRU, SLI TR IMBD CALC XLS IP, KT YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW OR CUT

4020-4031' LS- OFF WHT CRM LT RED- HD DNS MOTT IP, MD-XLN TO SUCRO IP TR FOSS FRGS IP, HVY TR SFT WHT CHLK IP, TR LMNTD RD SH IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

4031-4034 LS-CRM TN GY BLK DUE TO DOSAND TAR STN SCAT THRU MOTT, HD DNS F-XLN TO V/TT SUCRO MTRX,SCAT IMBD FOSS FRGS THRU, TR SMLL OOL IP,IMBD SMLL ANG LM GRNS IP, NO FLO TO TR V/ DLL YEL GLD FLO SCAT IN 30%, TR BRIT YEL MIN FLO IP, NO VIS POR, FR FL SH CUT IN 10%, GD SLO STRM CUT IN 30%, NO ODOR, LT TN LCH ON DISH

TOPEKA 4052' - 727'

LS- OFF WHT CRM LT TN - HD DNT TO BRITT IP, MD-F-XLN, RE-XLN MTRX, TR MICRO OOL IP, HVY TR SFT WHT CHLK IP, V/ DLL YEL FLO SCAT IP TO NO FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT CRM LT PINK- HD DNS TR BRITT, MD-F-XLN, RE-XLN MTRX IP, TR FOSS FRGS IP, SLI TR IMBD SFT WHT CHLK, HVY TR IMBD LT RED SH IP, DLL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

SH- RED TO DK RED GRN - MOTT FRM BLKY GRNY TXT TO SFT GMMY TXT IP, TR HD SPLNTY ,CALC IP

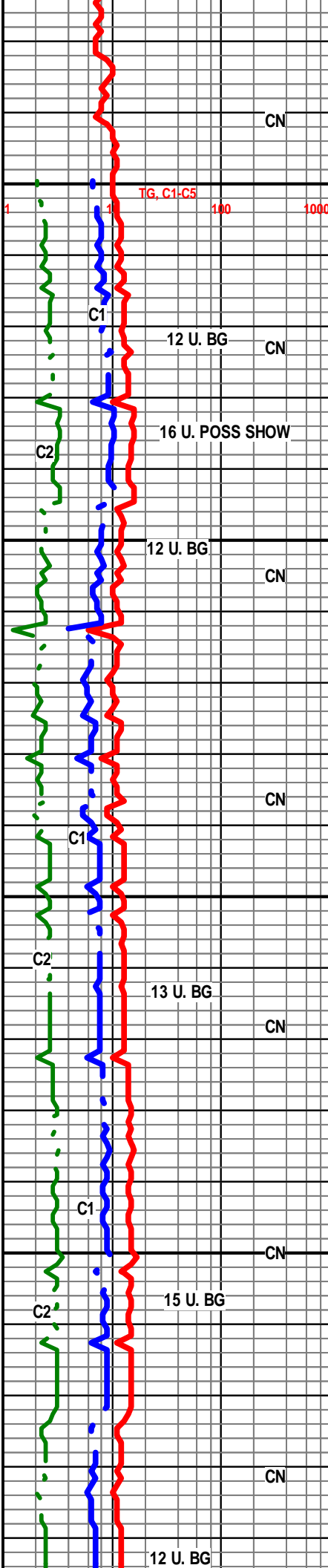
LS- CRM LT TN LT GY , HD DNS F-V/F-XLN , SLI TR MD -XLN IP RE-XLN IP, SCAT IMBD MD CALC XLS IP, DLL YEL MIN FLO IN 40%, TR MICRO PP POR IN LESS THAN 1% TO NO POR IN 99%, NO CUT OR SHOW

SH- PRPLE RED BLK GY- MOTT, FRM BLKY SMTH TO GRNY TXT, V/ CALC IP, HVY TR BRIT ORANGE TRANSLCNT CHRT

SH-GY DK GY PRPLE BLK, MOTT, FRM BLKY SMTH TO GRNY TXT CALC IP, SLI TR SFT CHLK IP

LS- CRM LT TN TN , HD DNS F-V/F-XLN, RE-XLN MTRX, SCAT IMBD FOSS FRGS THRU, TR MICRO OOL, DLL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

4190-4196' LS- LT TN TN OFF WHT TR BLK(DUE TO ASPHLT STN SCAT IP, TR LIVE OIL IN 1%) HD V/ BRITT, MD-XLN RE-XLN MTRX, ABDT IMBD SMLL ANG LM GRNS THRU, SCAT IMBD FOSS FRGS IP, HVY TR SFT



CN

TIG, C1-C5

C1

12 U. BG

CN

C2

16 U. POSS SHOW

12 U. BG

CN

C1

CN

C2

13 U. BG

CN

C1

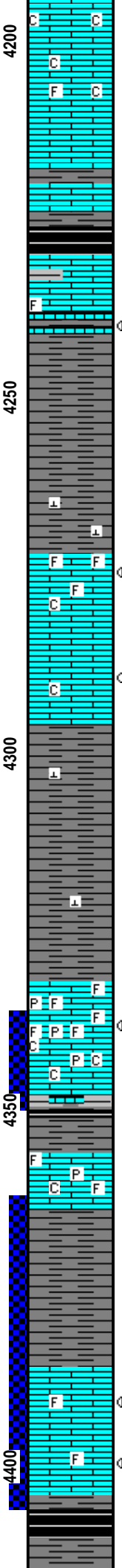
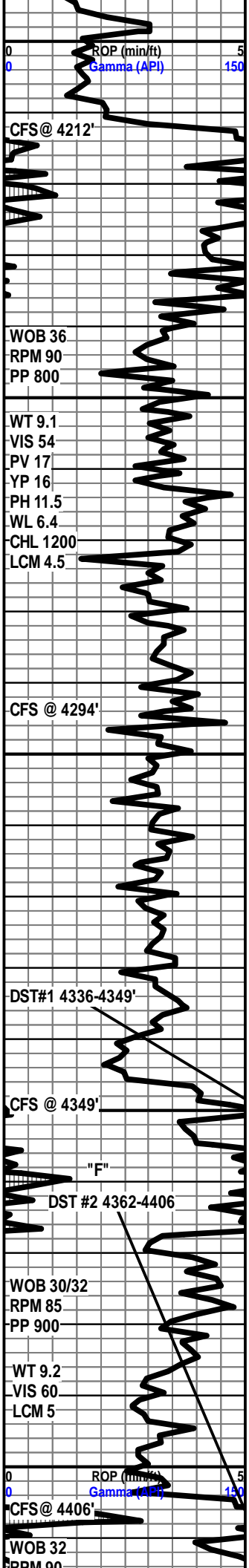
CN

C2

15 U. BG

CN

12 U. BG



SMALL ANG LM GRNS TRAY, SCAT IMBD FOSS FRGS IP, HVY TR SFT GMMY CHLK IN TRAY, DLL YEL FLO IN 10%, DLL YEL GLD FLO IN 1%, NO FLO IN 80%, PR TO FR TO TR GD MICRO VUG POR SCAT THRU 40%, TR PR INTER-FOSS POR IN 2%, FR FL SH CUT IN 1 ROCK, PR TO FR SLO STRM CUT IN 2%, NO ODOR, NO STN ON DISH

4200-4215'- LS- HD DNS TO BRITT, MD-XLN RE-XLN MTRX IP, TR IMBD FOSS FRGS IP, SLI S-CHLKY IP GRDNG TO LT GY HD DNS V/F-CRYPTO-XLN W/ IMBD LT GY SH IP, DLL YEL MIN FLO, SLI TR SCAT V/ PR MICRO PP POR IP, NO VIS CUT OR SHOW

HEEBNER 4226' - 901'
SH- BLK SFT CARB, V/ CALC
LS- TN LT BRN GY- HD DNS MOTT V/F-CRYPTO-XLN, S-LITHO IP, SLI TR IMBD SH IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

4238-40' LS-CRM LT TN GY-SCAT ASPHLTIC STN IN 5%, HD DNS F-XLN TO SUCRO IP, RE-XLN, FOSS FRGS IMBD IP, IMBD GY SH IP, DLL YEL GLD SPTTD FLO IN 2%, DLL YEL FLO IN 20%, NO VIS POR, NO FL SH CUT, V/ WK SLO STRM CUT IN 5%, NO ODOR, NO STN ON DISH

SH- RED DK RED GY IP, FRM BLKY, GRNY TXT, CALC IP

LANSING 4273' - 948'
4273-4278- LS CRM TN BRN- HD DNS W/ SCAT BLK TARRY OIL STN IN 5%, F-XLN IP TO TT SUCRO IP, TR IMBD FOSS FRGS IP, TR SFT WHT CHLK IP, BRIT YEL GLD FLO SPTTD IN 5%, DLL YEL FLO IN 10%, TR PR MICROVUG POR IN 1%, GD FL SH CUT IN 5%, GD SLO STRM CUT IN 15%, NO ODOR, TR LIVE OIL IN CUP,

4280-4292 LS- OFF WHT CRM LT TN- TR DOS ON 1 ROCK, HD DNS F- V/F-XLN, SLI TR VRGTD CALC XLS ON ONE FACES, TR FREE SFT WHT CHLK, BRIT YEL GLD FLO IN 1%, NO VIS POR, POSS FRACT POR, V/ SLI GASSY CUT IN 5%, NO ODOR, NO STN ON DISH

SH- RED DK RED GY - FRM BLKY, GRNY TXT TO SMTH IP, TR HD SPLNTY, CALC IP

SRVY @ 4349' = 3 DEG / WE BACKED OFF WOB

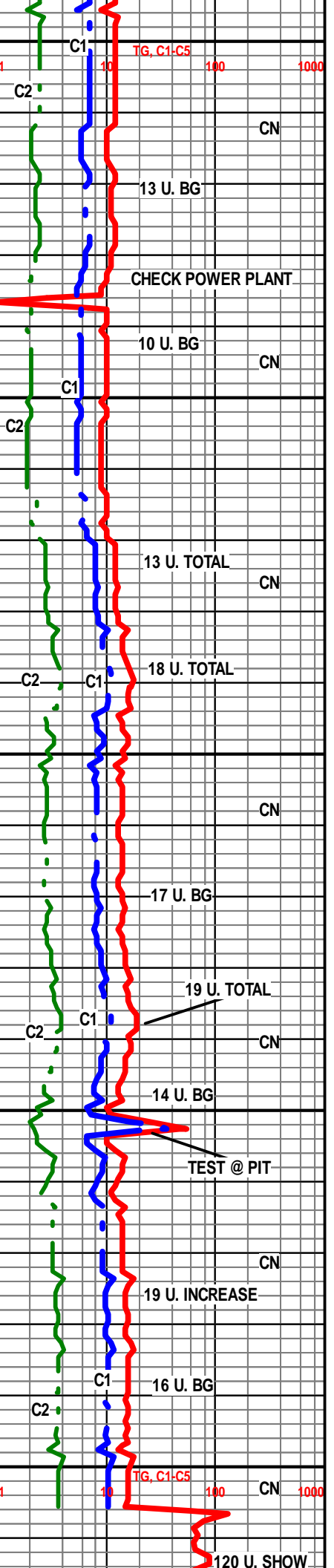
LANSING "D" 4333' - 1008'
LS- OFF WHT CRM BLK (DUE TO SCAT TARRY OIL STN SCAT IN 50%) HD DNS TO TR BRITT, MD-F-XLN RE-XLN MTRX, LRG IMBD FOSS FRGS SCAT IP, TR IMBD PYR CLSTR IP, GRDNG TO V/ SUCRO S-CHLKY W/ ABDT SFT WHT CHLK IP, ABDT IMBD DISS PYR SCAT THRU, DLL YEL GLD FLO IN 70%, SCAT BRIT YEL GLD FLO IN 5%, PR ISOLATED INTER-FOSS POR IN 10%, V/ GD FL SH CUT IN 40%, V/ GD SLO STREAM MLKY BLU CUT IN 40-50%, NO ODOR, DK TN LCH ON DISH, HVY TR LIVE OIL IN CUP

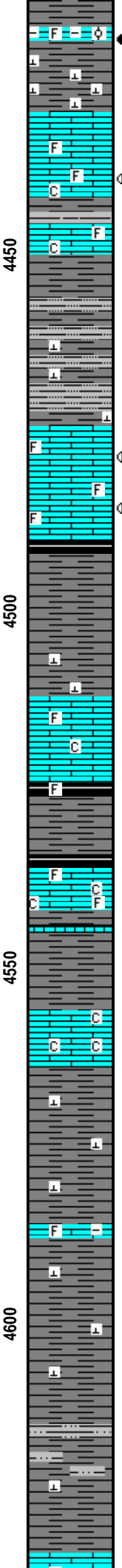
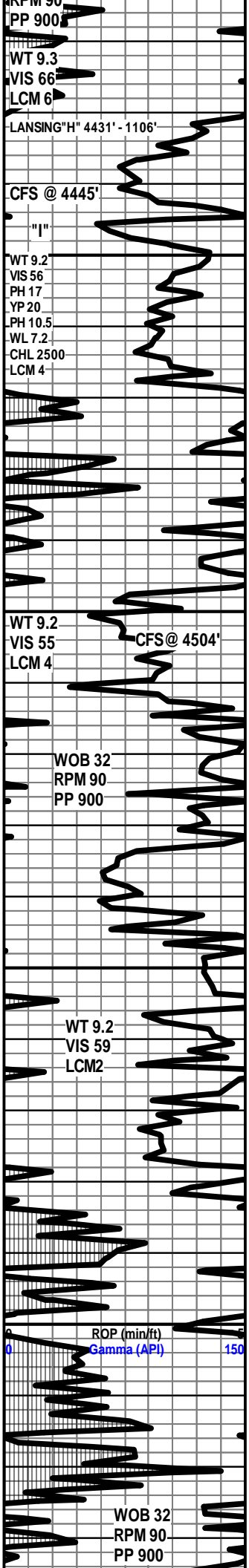
4356- 4364'-LS- CRM LT TN HD DNS TO BRITT IP MD-XLN TO F-XLN IP, TR TT SUCRO IP, IMBD FOSS FRGS SCAT THRU, SLI S-CHLKY, TR FREE PYR CLSTRS, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

SH- RED GRN GY, MOTT, FRM BLKY, V/ GRNY TXT GRDNG TO SMTH TXT IP

LANSING "G" 4387' - 1062'
4387'- 4394 LS- CRM LT TN (DUE TO LT OIL STN IN 40%) HD DNS TO BRITT IN 20%, F-V/F-XLN TP MD -XLN IP, RE-XLN, IMBD SMLL ANG LM GRNS IP, TR FOSS FRGS IP TR SMLL CALC XLS IP BRIT YEL GLD FLO IN 40%, FR VIS INTER-XLN POR IN 5-7%, FR FL SH CUT IN 20%, FR SLO STRM CUT IN 40%, LT OIL ODOR, OIL DROPLETS ON WATER IN CUP

4396-4404 LS- CRM BFF LT TN(W/ LT TN OIL STN IN 30%)- HD DNS IP TO V/ BRITT, MD-F-XLN RE-XLN MTRX, CALC OR POSS QURTZ XLS CLSTRS IMBD AND FREE(W/ LT OIL STN), TR FREE FOSS IP(W/ LT OIL STN), DLL YEL GLD FLO IN 40-50%, PR TO FR TR GD INTER-XLN POR IN 10%, TR PR SCAT MICRO VUG POR SCAT IN 30%, FR TO GD FL SH CUT IN 30%, FR SLO STRM CUT IN 40%





4418-4420' LS- CRM BRN GY- (DK BRN OIL STN THRU) MOTT- HD DNS F-XLN TO TT SUCRO MTRX, RE-XLN , IMBD FOSS FRGS IP, ABDT IMBD DISS SH IP,TR IMBD SCAT MICRO OOL , VV/DLL YEL GLD FLO IN 40%, NO VIS POR, , V/GD FL SH CUT THRU, V/ GD SLO STRM CUT THRU, NO ODOR, TN LCH ON DISH (3-4 ROCKS)

4436-4443 LS- OFF WHT CRM DK TN(DUE TO DK TN OIL STN IN 30%, SCAT DOS IN 20%) HD DNS TO BRITT MD-XLN RE-XLN MTRX TO SUCRO SLI S-CHLKY IP, ABDT SMLL TO MD CALC XLS IMBD IP, SCAT IMBD FOSS FRGS IP, DLL YEL GLD FLO IN 30%, DLL YEL FLO IN 20%, PR TO TR FR MICRO PP POR IN 10-15%, PR SCAT MICRO VUG POR IN 5%, WK FL SH CUT IN 10%, FR SLO STRM CUT IN 30%, NO ODOR, NO LEACH ON DISH

4446-4448' LS- CRM BFF- HD DNS SLI BRITT IP, MD-XLN TO SUCRO S-CHLKY MTRX, TR FREE FRM WHT CHLK, TR FOSS FRGS IMBD IP, SCAT LT BRIT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

SH- RD DK RED DK GY - FRM BLKY , V/ CRS GRNY TXT, V/ SLTY, V/ CALC IP

LANSING "J" 4474' - 1149'

4474-4490- LS- OFF WHT LT TN BLK(BLK DOS SCAT IN 40-50%, LT TN OIL STN IN 10%) HD DNS F-V/F-XLN TO TT SUCRO IP, FOSS FRGS IMBD IP, BRIT YEL GLD FLO IN 50%, NO VIS POR, WK FL SH CUT IN 3%, FR TO GD SLO STRM CUT IN 50-60%, NO ODOR, LT TN LCH ON DISH

SH- RED DK RED DK GY IP , FRM BLKY TO SFT SLTY IP, SLI CALC IP

LS- OFF WHT CRM BFF- HD DNS IP V/F-CRYPTO-XLN TO BRITT IP , SUCRO S-CHLKY TR, FOSS FRGS IP, DLL YEL MIN FLO IP , NO VIS POR, NO VIS SHOW OR CUT

SH- BLK SFT CARB W/ TR FREE FOSS
SH- RED GRN SFT GMMY TXT TO GRNY TXT

LS- OFF WHT CRM - HD DNS TO BRITT, MD-XLN XLN IP , IMBD FOSS FRGS IP, TO ABDT SFT TO FRM WHT CHLK, SCAT LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

BKC 4542' - 1217'

LS- OFF WHT CRM LT GY-HD DNS IP F-XLN TO BRITT V/ SUCRO S-CHLKY TO CHLKY MTX, TR IMBD MD S-RND QURTZ GRNS IP, ABDT SFT CHLK , V/ DLL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

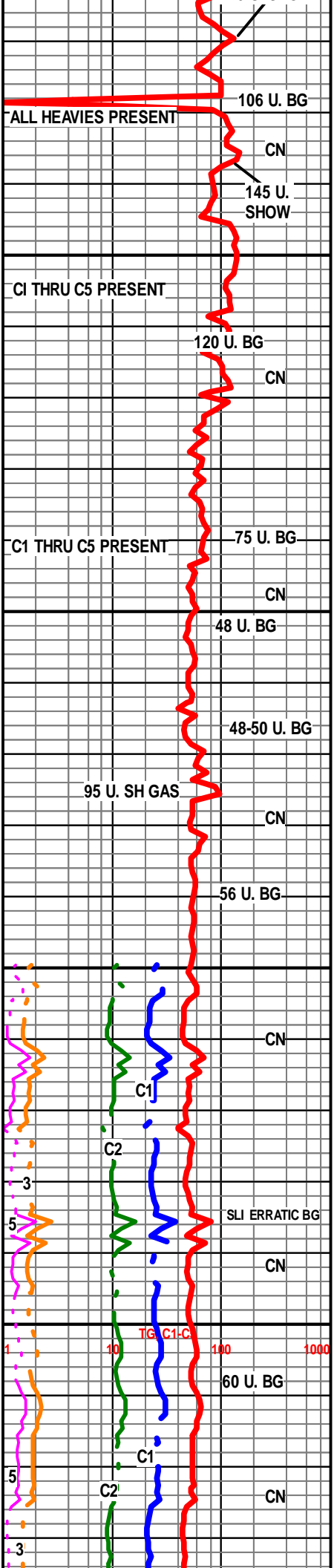
SH - RED DK RED GRN, SFT TO GMMY, FRM BLKY GRNY TXT IP , V/ CALC

LS- CRM LT G LT PRPLE- MOTT , HD DNS - F-V/F-XLN, TR IMBD PRPLE SH IP, TR FREE FOSS, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

SH-RED DK RED GY IP, FRM BLKY , GRNY TXT, V/ CALC IP

SH- RED TO DK RED - FRM BLKY GRNY TXT, CALC IP TO V/ SFT SLTY IP, TR V/V/F-SLTST IP

LS- OFF WHT CRM BFF I T GY- MOTT HD DNS IP F-XLN TO



WT 9.2
VIS 61
LCM 2.5

WT 9.2
VIS 71
PV 23
YP 22
PH 10.0
WL 8.8
CHL 2000
LCM 3

WOB 32
RPM 90
PP 900

WT 9.0
VIS 64

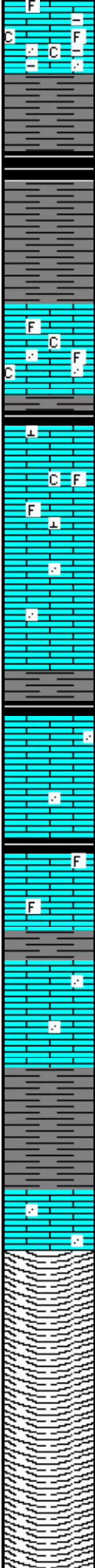
LOST CIRC @ 4801'
R.T.D. @ 4801'
SHORT TRIP
C.T.C.H. 1.5 HRS
T.O.F.L.

4650

4700

4750

4800



LS - OFF WHT CRM BFF LT GY - HD DNS IP TO BRITT, V/ SUCRO SLI S-CHLKY IP, IMBD FOSS FRGS IP TO ABDT DISS LT GY SH IP, W/ IMBD V/F-QUARTZ GRNS IP, HVY TR FREE SFT WHT CHLK, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

LABETTE SH 4654' -1329'

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

LS - OFF WHT CRM BFF LT GY - HD DNS IP TO BRITT, F-V-F-XLN IP, V/ SUCRO S-CHLKY IP, IMBD FOSS FRGS SCAT IP, SMLL IMBD CLR QUARTZ GRNS IMBD IP, TR FREE SFT WHT CHLK IP, V/ DLL YEL FLO IP, NO VIS POR, NO VIS SHOW OR CUT

PAWNEE 4688' - 1363'

LS - OFF WHT TO WHT, CRM IP, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, IMBD CALC-XLS, TR IMBD FOSS FRAGS, LT TR FREE SFT WHT CHLK, DLL YEL MIN FLO IN 10%, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO LT GRY, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, LT TR IMBD FN CLR QRTZ GRNS, DLL YEL MIN FLO IN 10%, NO VIS POR, NO CUT OR SHOW

FT. SCOTT 4729' -1404'

LS - OFF WHT TO LT GRY, MOTT IP, HD DNS, BRTT IP, FN TO VF-XLN, S-SUCRO, LT TR IMBD FN S-RND CLR QRTZ GRNS, NO VIS FLO, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO LT GRY, CRM IP, HD DNS, FN TO VF-XLN, MD-XLN IP, S-SUCRO, LT TR IMBD FOSS FRAGS, DLL YEL MIN FLO IN 20%, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO CRM, LT GRY IP, HD DNS TO BRTT, FN TO MD-XLN, V TT SUCRO MTRX, ABDT IMBD FN S-RND CLR QUARTZ GRNS, TR IMBD GRN SH, DLL YEL MIN FLO IN 10%, NO VIS POR, NO CUT OR SHOW

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

LS - LT GRY TO OFF WHT, HD DNS TO MD DNS, BRTT IP, MD-XLN TO FN-XLN, IMBD FN S-RND CLR QUARTZ GRNS, DLL YEL MIN FLO IN 20%, NO POR, NO CUT OR SHOW

LOST CIRC @ 4801' AT 6:00 PM CST

R.T.D. @ 6:00 PM CST

LOGGING SERVICES COMPLETED BY: WEATHERFORD

45 U. BG

CN

50 U. BG

CN

70 U. BG

CN

CN

CN

R.T.D. @ 4801'

SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

LOG COMPLETED BY: TIM HEDRICK AND JEFF KAMPS

