Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1264410

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 # 3882
Name: Samuel Gary Jr. & Associates, Inc.
Address 1: 1515 WYNKOOP, STE 700
Address 2:
City: DENVER State: CO Zip: 80202 + __ __ __ __
Contact Person: GABE D'ARTHENAY
Phone: (303) 831-4673
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: IAN BOSMEIJER
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 #:

5/27/2015 Spud Date or Recompletion Date
6/7/2015 Date Reached TD
6/7/2015 Completion Date or Recompletion Date

API No.: 15-153-21145-00-00
Spot Description:
__ - NW - NW - SW Sec. 7 Twp. 5 S. R. 35 ☐ East ☑ West
2280 Feet from ☐ North / ☑ South Line of Section
330 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: Rawlins
Lease Name: FISHER Well #: 3-7
Field Name:
Producing Formation: N/A
Elevation: Ground: 3253 Kelly Bushing: 3258
Total Vertical Depth: 4720 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 305 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: 5600 ppm Fluid volume: 110 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: SAMUEL GARY JR. & ASSOCIATES, INC.
Lease Name: FISHER CATTLE CO 1-2 License #: 3882
Quarter SW Sec. 2 Twp. 4 S. R. 36 ☐ East ☑ West
County: RAWLINS Permit #: D32207

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: 09/16/2015
☑ **Confidential Release Date:** 09/15/2017
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 09/17/2015

[redacted]

1264410

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: FISHER Well #: 3-7

Sec. 7 Twp. 5 S. R. 35 ☐ East ☑ West County: Rawlins

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geolgist Report / Mud Logs	☐ Yes	☐ No

List All E. Logs Run:

DEN-NEUT
INDUCTION
MICRO

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

Name	Top	Datum
TOPEKA	3951	-693
HEEBNER	4103	-845
LANSING	4150	-892

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	23	305	COMMON CLASS A	250	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	-			
	-			

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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

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

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	FISHER 3-7
Doc ID	1264410

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	23	305	COMMON CLASS A	250	2% GEL, 3% CC

ALLIED OIL & GAS SERVICES, LLC

21540

Federal Tax I.D. #20-5975804

067761

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

SERVICE POINT: Oakley, KS

DATE 5/21/15	SEC. 2	TWP. 5	RANGE 35	CALLED OUT	ON LOCATION	JOB START 5:00pm	JOB FINISH 5:30pm
LEASE Fisher	WELL # 3-7		LOCATION Brewster N to CR (1/2 E) E to RR6 N to Tank Battery on E side			COUNTY Rawlins	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR Murfin 24
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 305
CASING SIZE 8 5/8 DEPTH 305
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT

OWNER Same

EQUIPMENT

PUMP TRUCK CEMENTER Tyler Ryan
#415-281 HELPER Kevin Ryan
BULK TRUCK
457 DRIVER Lakene Woetz
BULK TRUCK
DRIVER

CEMENT
AMOUNT ORDERED 250 Com 3%CC

COMMON	200	@ 17.50	4475.00
POZMIX		@	
GEL		@	
CHLORIDE	705	@ 1.50	225.50
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
TOTAL			5,250.50
DISCOUNT 48 %			2520.24

REMARKS:

Ran Csg Circulate, Mix Cement, Displace Cement
Shut In
Cement Did Circulate

Thank You
Tyler, Lakene

SERVICE

HANDLING	362.50	@ 2.40	651.00
MILEAGE 225 Tons/miles 105		Tons	1999.00
DEPTH OF JOB	305'		
PUMP TRUCK CHARGE			1512.25
EXTRA FOOTAGE		@ .20	
HV MILEAGE	60	@ 7.70	462.00
LV MILEAGE	60	@ 4.40	264.00
Surface		@	275.00
		@	
TOTAL			5161.25
DISCOUNT 46 %			2372.40

CHARGE TO: Sam Gary & Associates
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

		@	
		@	
		@	
		@	
		@	
TOTAL			
DISCOUNT %			

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 Anthony Martin

SIGNATURE Anthony Martin

SALES TAX (If Any)
TOTAL CHARGES 10,411.75
DISCOUNT 4,997.64 (48%) IF PAID IN 30 DAYS
NET TOTAL 5,414.11 IF PAID IN 30 DAYS

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. 1424

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-7-15	7	5	35	Rawlins	KS		7:00pm

Location Bruster & I-70, 16N to CL, 3E, 3¾N

Lease Fisher | Well No. 3-7 | Owner Enz

Contractor Murfin 24

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 Plug

Hole Size 7⅞ | T.D. 4713 | Charge To Sam Gary Jr & Associates

Csg. | Depth | 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. | Shoe Joint | Cement Amount Ordered 240 sx 60/40, 4%, ¼# Flo.

Meas Line | Displace

EQUIPMENT

Pumptrk 20	No.	Cementer Helper	Nick
Bulktrk 15	No.	Driver Driver	Doug
Bulktrk P4	No.	Driver Driver	Travis

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

50sx at 2960
100 sx at 1860
50 sx at 360
10 sx at 40 with plug

30sx Rat

Common ~~153~~	144
Poz. Mix ~~102~~	96
Gel.	9
Calcium	
Hulls	
Salt	
Flowseal	56#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling ~~264~~	249
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
1 wood plug	
Pumptrk Charge plug	
Mileage 65	
Tax	
Discount	
Total Charge	

X Signature Anthony Martin

Quality Oilwell Cementing

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

1515 Wynkoop STE #700
Denver, CO 80202

ATTN: Chris Mitchell

7-5S-35W Rawlins, KS

Fisher #3-7

Job Ticket: 62249 **DST#: 1**

Test Start: 2015.06.04 @ 21:26:00

GENERAL INFORMATION:

Formation: **LKC "J,K,L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:47:30
Time Test Ended: 07:19:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 82

Interval: 4330.00 ft (KB) To 4402.00 ft (KB) (TVD)
Total Depth: 4402.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

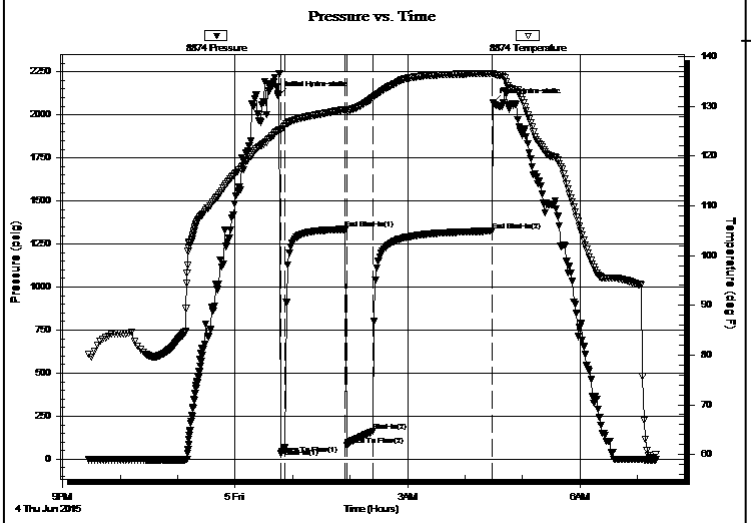
Reference Elevations: 3256.00 ft (KB)
3251.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 161.32 psig @ 4331.00 ft (KB)
Start Date: 2015.06.04 End Date: 2015.06.05
Start Time: 21:27:00 End Time: 07:19:00

Capacity: 8000.00 psig
Last Calib.: 2015.06.05
Time On Btm: 2015.06.05 @ 00:45:00
Time Off Btm: 2015.06.05 @ 04:29:30

TEST COMMENT: 5 - IF- 1/2" Blow built to 4 1/2"
60 - ISI- No Return
30 - FF- BoB in 22 min
120 - FSI- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.30	125.20	Initial Hydro-static
3	31.67	125.15	Open To Flow (1)
7	65.75	126.10	Shut-In(1)
70	1335.61	129.42	End Shut-In(1)
72	79.14	129.14	Open To Flow (2)
99	161.32	131.63	Shut-In(2)
223	1325.77	136.64	End Shut-In(2)
225	2068.70	136.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (heavy) 100M	0.02
53.00	MW 20M 80W	0.26
116.00	MW 10M 90W	0.57
63.00	MW 20M 80W	0.87
103.00	MW 50M 50W	1.44

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

1515 Wynkoop STE #700
Denver, CO 80202

ATTN: Chris Mitchell

7-5S-35W Rawlins, KS

Fisher #3-7

Job Ticket: 62249 **DST#: 1**

Test Start: 2015.06.04 @ 21:26:00

GENERAL INFORMATION:

Formation: **LKC "J,K,L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:47:30
Time Test Ended: 07:19:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 82

Interval: 4330.00 ft (KB) To 4402.00 ft (KB) (TVD)
Total Depth: 4402.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

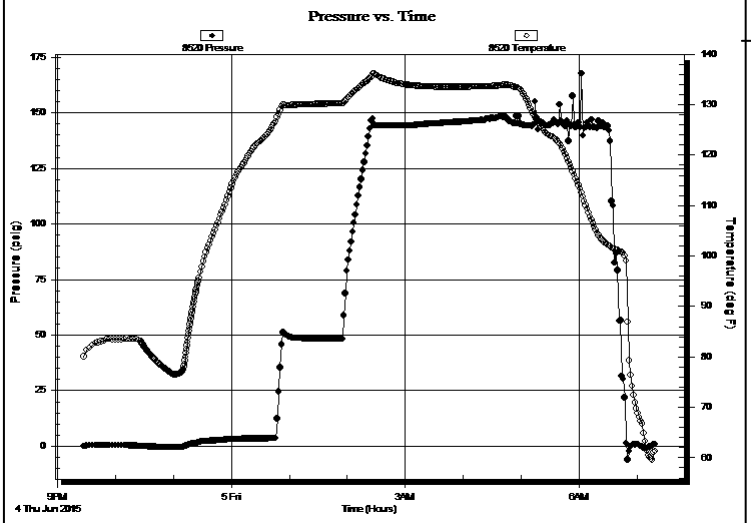
Reference Elevations: 3256.00 ft (KB)
3251.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8520 **Fluid**

Press@RunDepth: psig @ 4298.00 ft (KB)
Start Date: 2015.06.04 End Date: 2015.06.05
Start Time: 21:27:00 End Time: 07:19:00

Capacity: 8000.00 psig
Last Calib.: 2015.06.05
Time On Btm:
Time Off Btm:

TEST COMMENT: 5 - IF- 1/2" Blow built to 4 1/2"
60 - ISI- No Return
30 - FF- BoB in 22 min
120 - FSI- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (heavy) 100M	0.02
53.00	MW 20M 80W	0.26
116.00	MW 10M 90W	0.57
63.00	MW 20M 80W	0.87
103.00	MW 50M 50W	1.44

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

1515 Wynkoop STE #700
Denver, CO 80202

ATTN: Chris Mitchell

7-5S-35W Rawlins, KS

Fisher #3-7

Job Ticket: 62249 **DST#: 1**

Test Start: 2015.06.04 @ 21:26:00

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:	40000 ppm
Viscosity:	67.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud (heavy) 100M	0.025
53.00	MW 20M 80W	0.261
116.00	MW 10M 90W	0.570
63.00	MW 20M 80W	0.875
103.00	MW 50M 50W	1.445

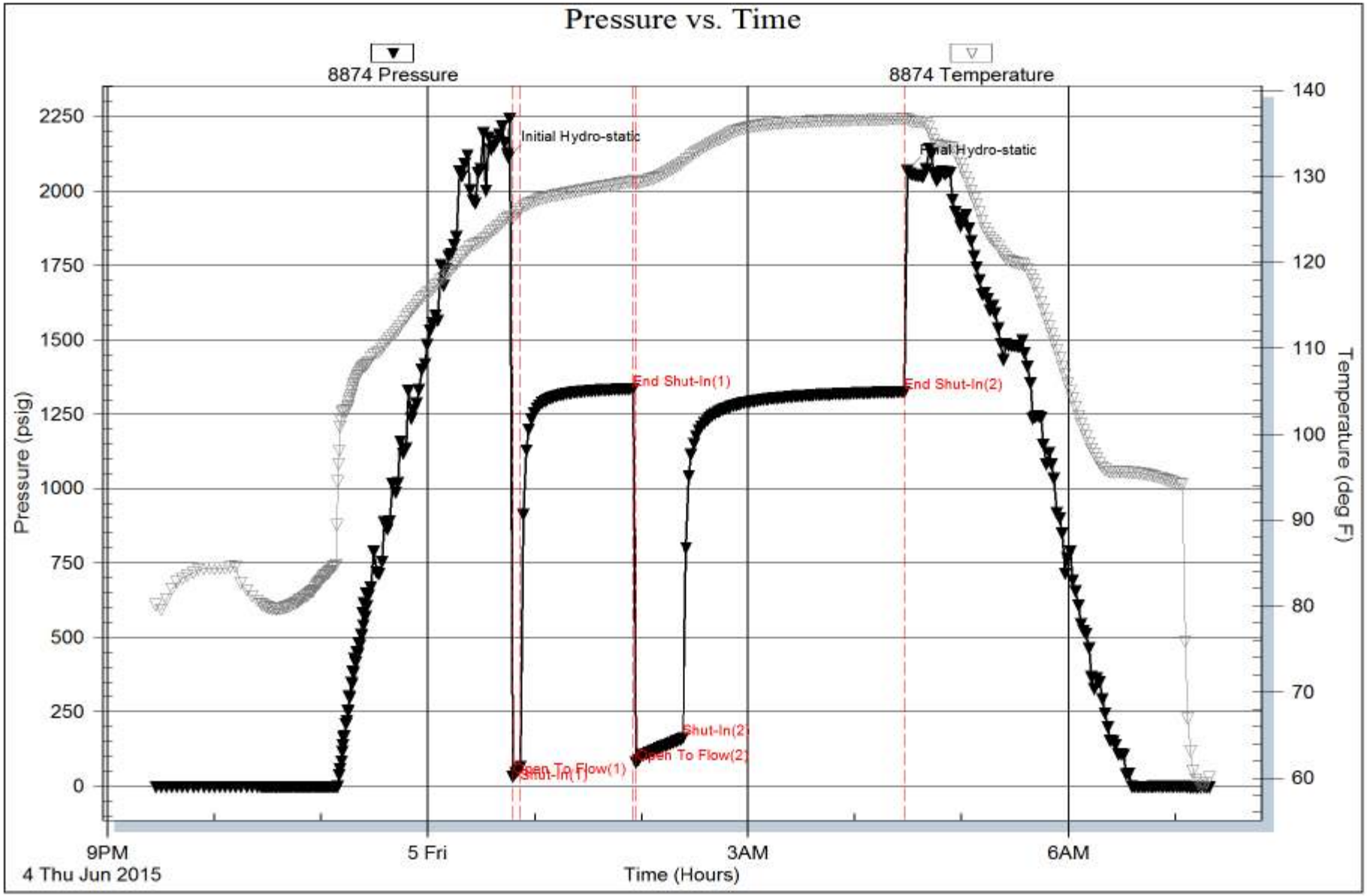
Total Length: 340.00 ft Total Volume: 3.176 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

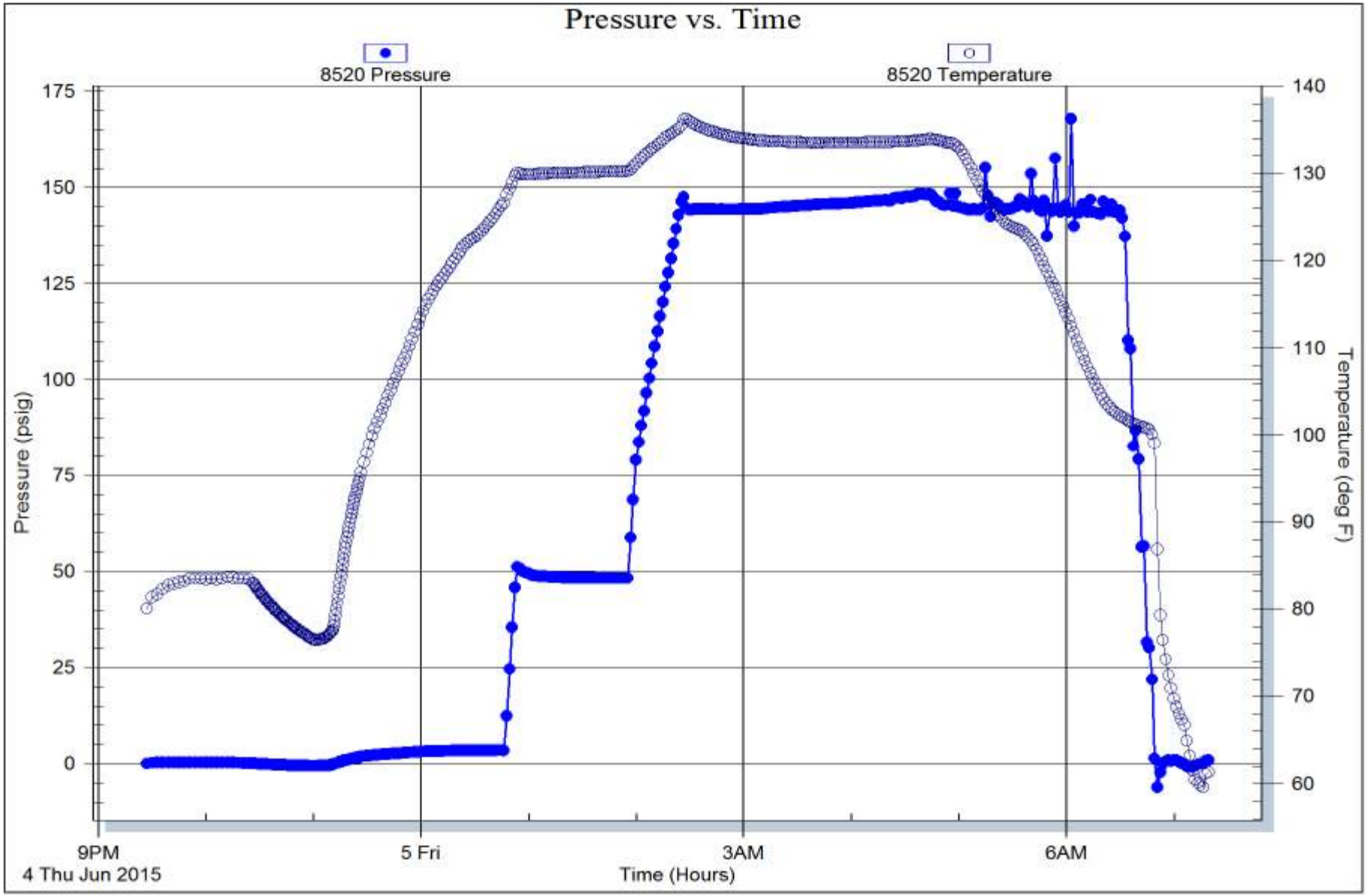
Recovery Comments: RW = .23 @ 65 deg = 40,000ppm

Serial #: 8874 **Inside** Samuel Gary Jr. & Associates, Inc. Fisher #3-7 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 62249 Printed: 2015.06.05 @ 08:10:39

Serial #: 8520 **Fluid** Samuel Gary Jr. & Associates, Inc. Fisher #3-7 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 62249 Printed: 2015.06.05 @ 08:10:39

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

1515 Wynkoop STE #700
Denver, CO 80202

ATTN: Chris Mitchell

7-5S-35W Rawlins, KS

Fisher #3-7

Job Ticket: 62250 **DST#: 2**

Test Start: 2015.06.06 @ 10:45:00

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:07:00
Time Test Ended: 17:29:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 82

Interval: 4597.00 ft (KB) To 4635.00 ft (KB) (TVD)
Total Depth: 4635.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

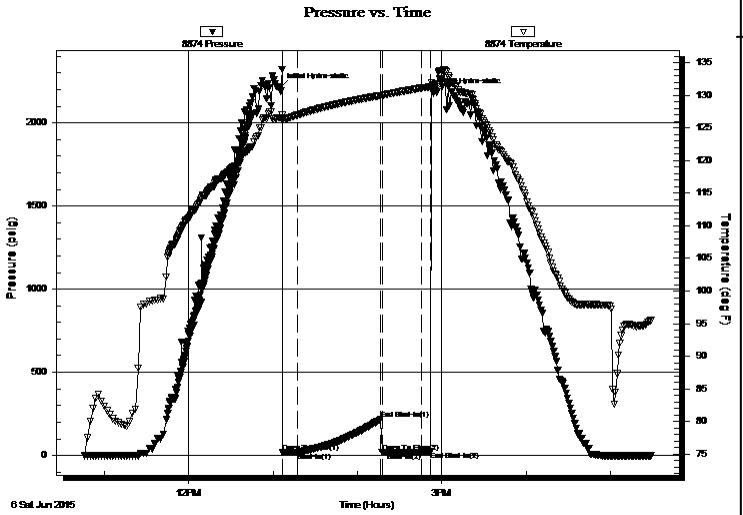
Reference Elevations: 3256.00 ft (KB)
3251.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 19.46 psig @ 4598.00 ft (KB)
Start Date: 2015.06.06 End Date: 2015.06.06
Start Time: 10:46:00 End Time: 17:29:00

Capacity: 8000.00 psig
Last Calib.: 2015.06.06
Time On Btm: 2015.06.06 @ 13:05:00
Time Off Btm: 2015.06.06 @ 14:54:00

TEST COMMENT: 10 - IF- Surface Blow built to 1/4"
60 - ISI- No Return
25 - FF- No Blow
0 - FSI- Pulled tools at end of FF



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2211.98	126.58	Initial Hydro-static
2	18.27	126.29	Open To Flow (1)
12	18.75	126.93	Shut-In(1)
72	217.06	129.95	End Shut-In(1)
73	19.41	129.98	Open To Flow (2)
101	19.46	131.09	Shut-In(2)
107	22.31	131.28	End Shut-In(2)
109	2178.82	131.64	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)

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

1515 Wynkoop STE #700
Denver, CO 80202

ATTN: Chris Mitchell

7-5S-35W Rawlins, KS

Fisher #3-7

Job Ticket: 62250 **DST#: 2**

Test Start: 2015.06.06 @ 10:45:00

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:07:00
Time Test Ended: 17:29:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 82

Interval: 4597.00 ft (KB) To 4635.00 ft (KB) (TVD)
Total Depth: 4635.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

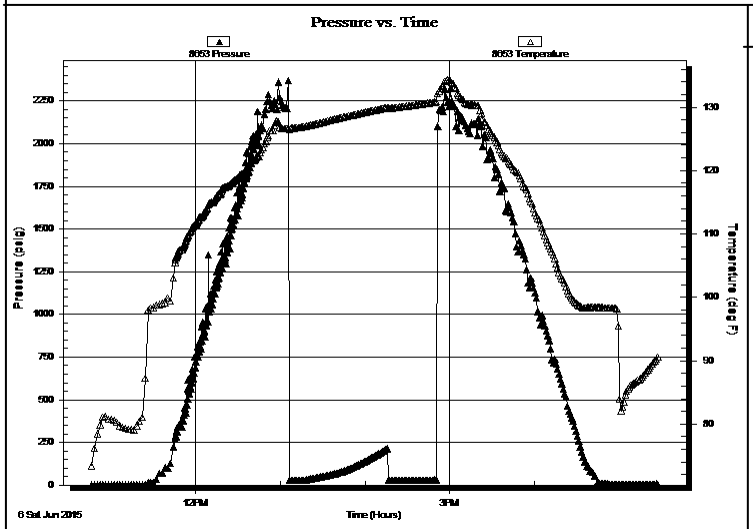
Reference Elevations: 3256.00 ft (KB)
3251.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8653 **Outside**

Press@RunDepth: psig @ 4598.00 ft (KB)
Start Date: 2015.06.06 End Date: 2015.06.06
Start Time: 10:46:00 End Time: 17:28:00

Capacity: 8000.00 psig
Last Calib.: 2015.06.06
Time On Btm:
Time Off Btm:

TEST COMMENT: 10 - IF- Surface Blow built to 1/4"
60 - ISI- No Return
25 - FF- No Blow
0 - FSI- Pulled tools at end of FF



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)

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

1515 Wynkoop STE #700
Denver, CO 80202

ATTN: Chris Mitchell

7-5S-35W Rawlins, KS

Fisher #3-7

Job Ticket: 62250 **DST#: 2**

Test Start: 2015.06.06 @ 10:45:00

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:07:00
Time Test Ended: 17:29:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 82

Interval: 4597.00 ft (KB) To 4635.00 ft (KB) (TVD)
Total Depth: 4635.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

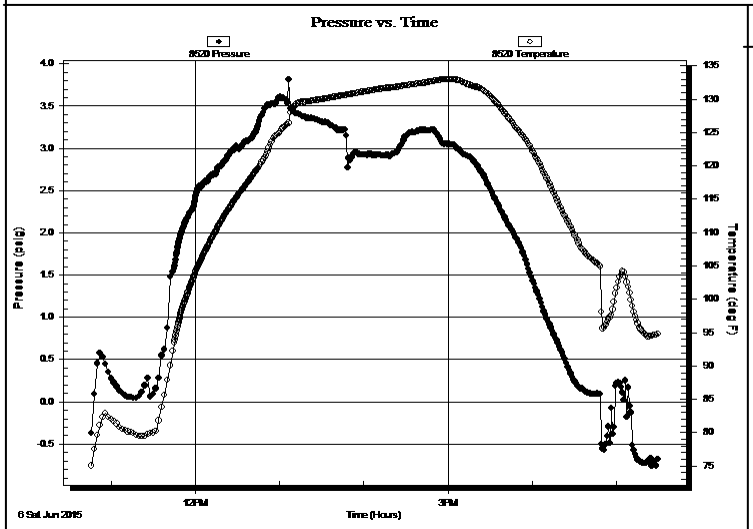
Reference Elevations: 3256.00 ft (KB)
3251.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8520 **Fluid**

Press@RunDepth: psig @ 4565.00 ft (KB)
Start Date: 2015.06.06 End Date: 2015.06.06
Start Time: 10:46:00 End Time: 17:29:30

Capacity: 8000.00 psig
Last Calib.: 2015.06.06
Time On Btm:
Time Off Btm:

TEST COMMENT: 10 - IF- Surface Blow built to 1/4"
60 - ISI- No Return
25 - FF- No Blow
0 - FSI- Pulled tools at end of FF



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)

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

1515 Wynkoop STE #700
Denver, CO 80202

ATTN: Chris Mitchell

7-5S-35W Rawlins, KS

Fisher #3-7

Job Ticket: 62250 **DST#: 2**

Test Start: 2015.06.06 @ 10:45:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	64.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.40 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2600.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

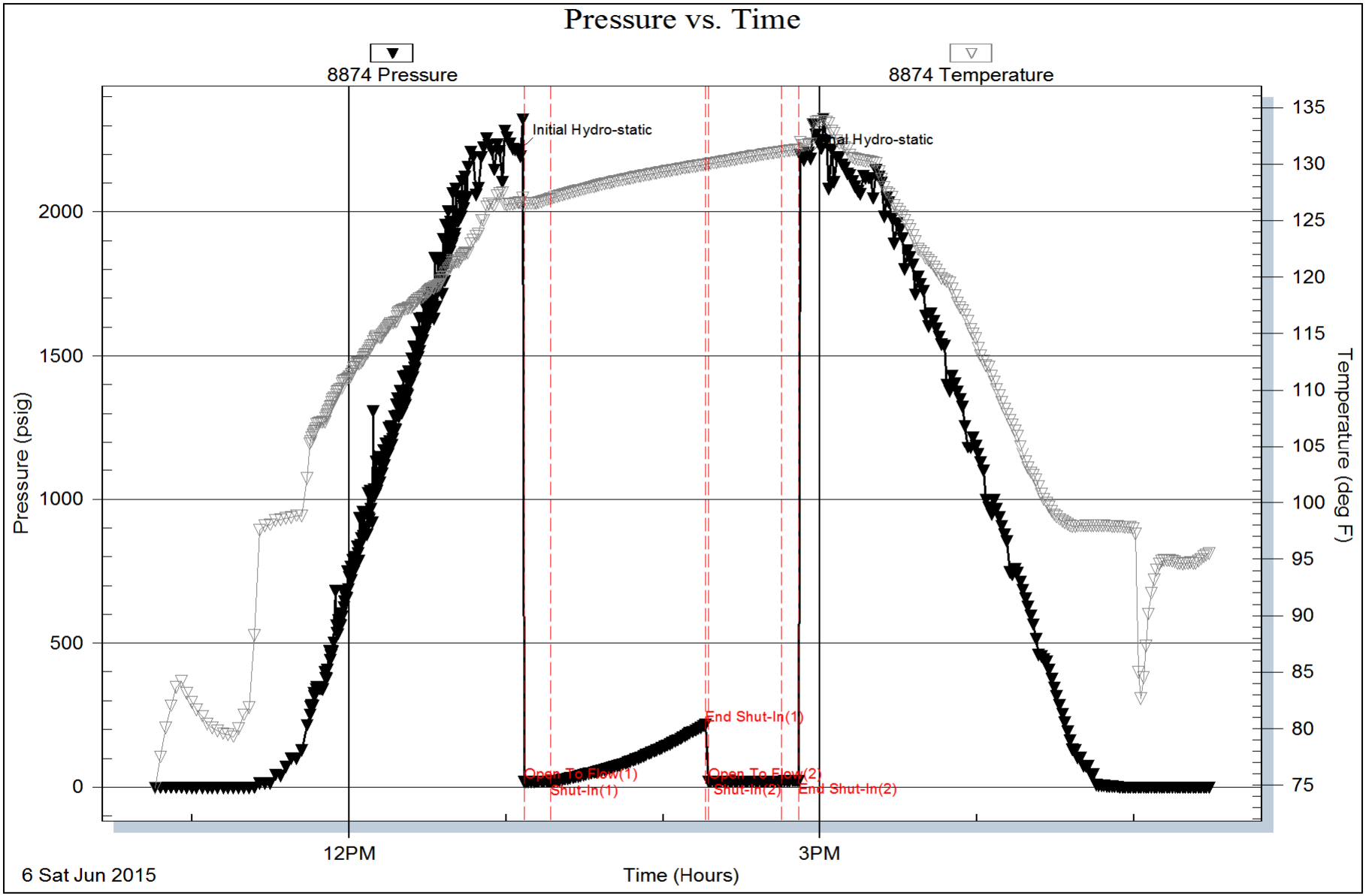
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

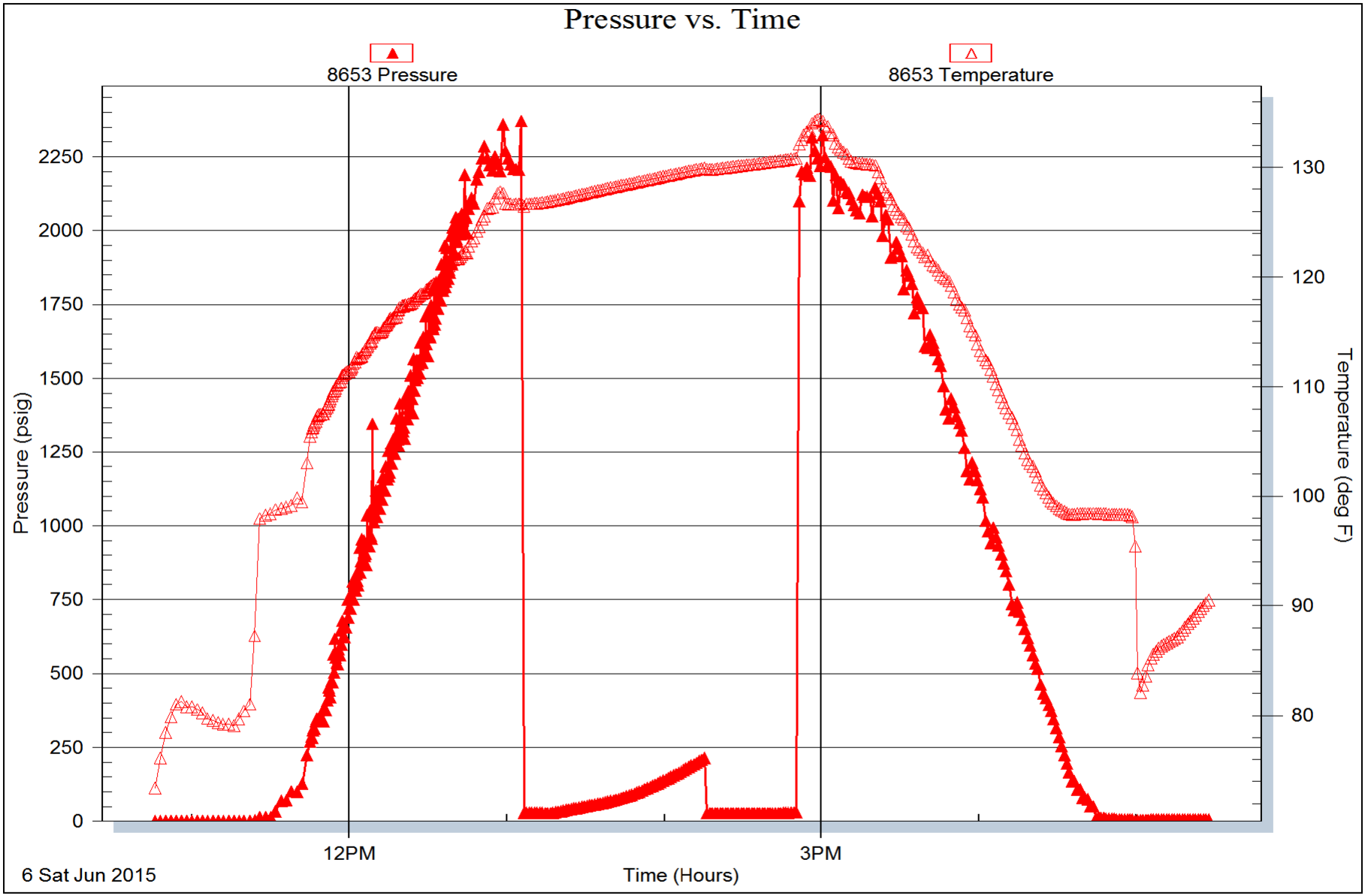
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8874 **Inside** Samuel Gary Jr. & Associates, Inc. Fisher #3-7 DST Test Number: 2



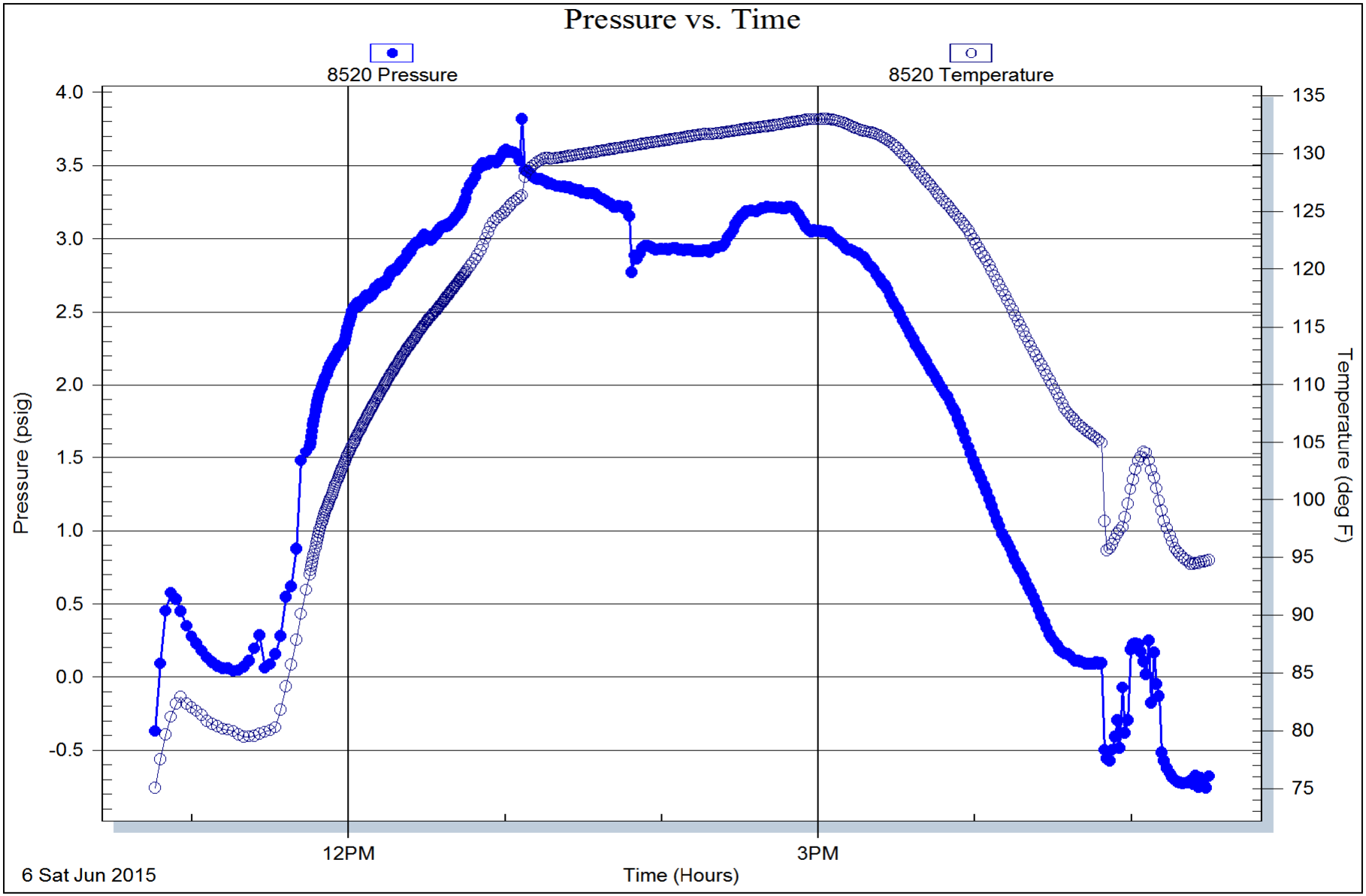
Trilobite Testing, Inc Ref. No: 62250 Printed: 2015.06.07 @ 22:47:32

Serial #: 8653 **Outside** Samuel Gary Jr. & Associates, Inc. Fisher #3-7 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 62250 Printed: 2015.06.07 @ 22:47:33

Serial #: 8520 **Fluid** Samuel Gary Jr. & Associates, Inc. Fisher #3-7 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 62250 Printed: 2015.06.07 @ 22:47:33

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

Well Name:	FISHER 3-7		
Well Id:			
Location:	SEC. 7-5S-35W	RAWLINS COUNTY, KANSAS	
License Number:	15-153-21145-0000	Region:	WILDCAT
Spud Date:	5/29/2015	Drilling Completed:	6/7/2015
Surface Coordinates:	2280' FSL/ 330' FWL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	3253'	K.B. Elevation (ft):	3258'
Logged Interval (ft):	3920' To: 4720'	Total Depth (ft):	4720'
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: 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.

1515 Wynkoop STE #700
Denver, CO 80202

ATTN: Chris Mitchell

7-5S-35W Rawlins, KS

Fisher #3-7

Job Ticket: 62249 **DST#: 1**

Test Start: 2015.06.04 @ 21:26:00

GENERAL INFORMATION:

Formation: **LKC "J,K,L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:47:30
Time Test Ended: 07:19:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 82

Interval: 4330.00 ft (KB) To 4402.00 ft (KB) (TVD)
Total Depth: 4402.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

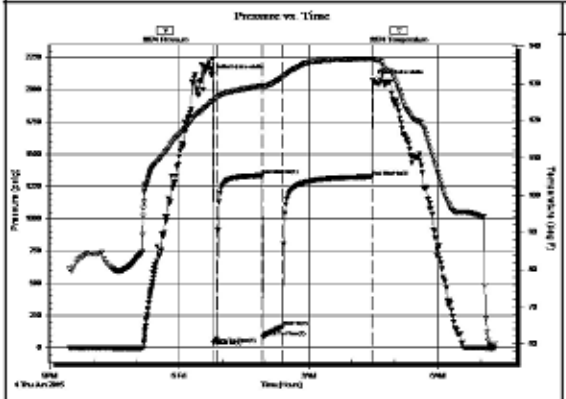
Reference Elevations: 3256.00 ft (KB)
3251.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 161.32 psig @ 4331.00 ft (KB)
Start Date: 2015.06.04 End Date: 2015.06.05
Start Time: 21:27:00 End Time: 07:19:00

Capacity: 8000.00 psig
Last Calib.: 2015.06.05
Time On Btm: 2015.06.05 @ 00:45:00
Time Off Btm: 2015.06.05 @ 04:29:30

TEST COMMENT: 5 - IF- 1/2" Blow built to 4 1/2"
60 - ISI- No Return
30 - FF- BoB in 22 min
120 - FSI- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.30	125.20	Initial Hydro-static
3	31.67	125.15	Open To Flow (1)
7	65.75	126.10	Shut-In(1)
70	1335.61	129.42	End Shut-In(1)
72	79.14	129.14	Open To Flow (2)
99	161.32	131.63	Shut-In(2)
223	1325.77	136.64	End Shut-In(2)
225	2068.70	136.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (heavy) 100M	0.02
53.00	MW 20M 80W	0.26
116.00	MW 10M 90W	0.57
63.00	MW 20M 80W	0.87
103.00	MW 50M 50W	1.44

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Samuel Gary Jr. & Associates, Inc.

1515 Wynkoop STE #700
Denver, CO 80202

ATTN: Chris Mitchell

7-5S-35W Rawlins, KS

Fisher #3-7

Job Ticket: 62250 **DST#: 2**

Test Start: 2015.06.06 @ 10:45:00

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:07:00
Time Test Ended: 17:29:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 82

Interval: 4597.00 ft (KB) To 4635.00 ft (KB) (TVD)
Total Depth: 4635.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

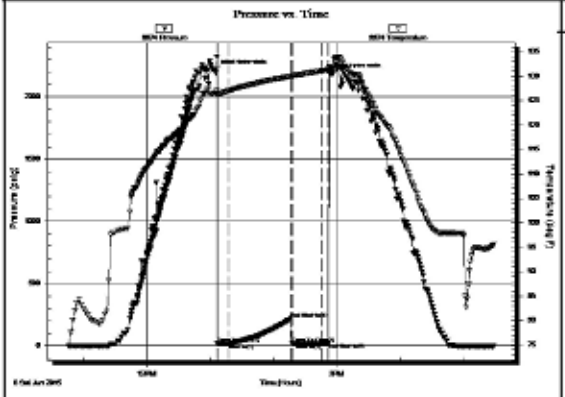
Reference Elevations: 3256.00 ft (KB)
3251.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 19.46 psig @ 4598.00 ft (KB)
Start Date: 2015.06.06 End Date: 2015.06.06
Start Time: 10:46:00 End Time: 17:29:00

Capacity: 8000.00 psig
Last Calib.: 2015.06.06
Time On Btm: 2015.06.06 @ 13:05:00
Time Off Btm: 2015.06.06 @ 14:54:00

TEST COMMENT: 10 - IF- Surface Blow built to 1/4"
60 - ISI- No Return
25 - FF- No Blow
0 - FSI- Puled tools at end of FF



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2211.98	126.58	Initial Hydro-static
2	18.27	126.29	Open To Flow (1)
12	18.75	126.93	Shut-In(1)
72	217.06	129.95	End Shut-In(1)
73	19.41	129.98	Open To Flow (2)
101	19.46	131.09	Shut-In(2)
107	22.31	131.28	End Shut-In(2)
109	2178.82	131.64	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)

ROCK TYPES

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol
- Shgy
- Sltst
- Ss
- Till
- Carb sh
- Dol
- Dtd
- Gry sh
- Sandylms
- Shale
- Sltstn
- Shlyslts
- Sltysh
- Lms

ACCESSORIES

MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- 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
- Slty

FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

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

OTHER SYMBOLS

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

SORTING
- Well
- Moderate
- Poor

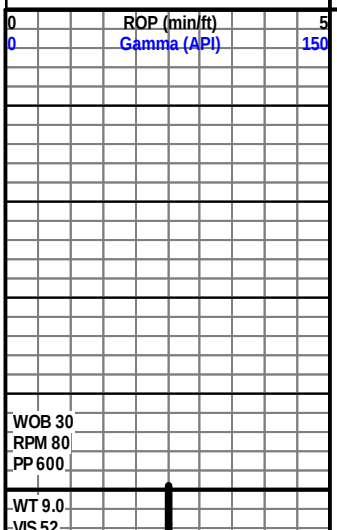
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS
- Even
- Spotted
- Ques
- Dead
- Gas show

INTERVALS
- Core
- Dst
- Dst

EVENTS
- Rft
- Sidewall

Curve Track 1	Depth	Lithology	Oil Shows	Geological Descriptions	TG, C1-C5
ROP (min/ft) Gamma (API)					TG (units) C1 (units) C2 (units) C3 (units) C4 (units) C5 (units)



38

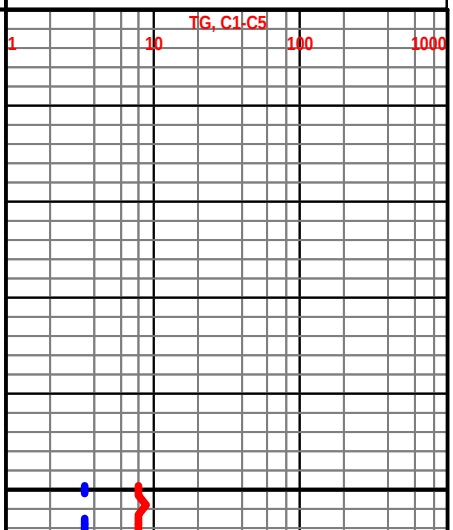
3900

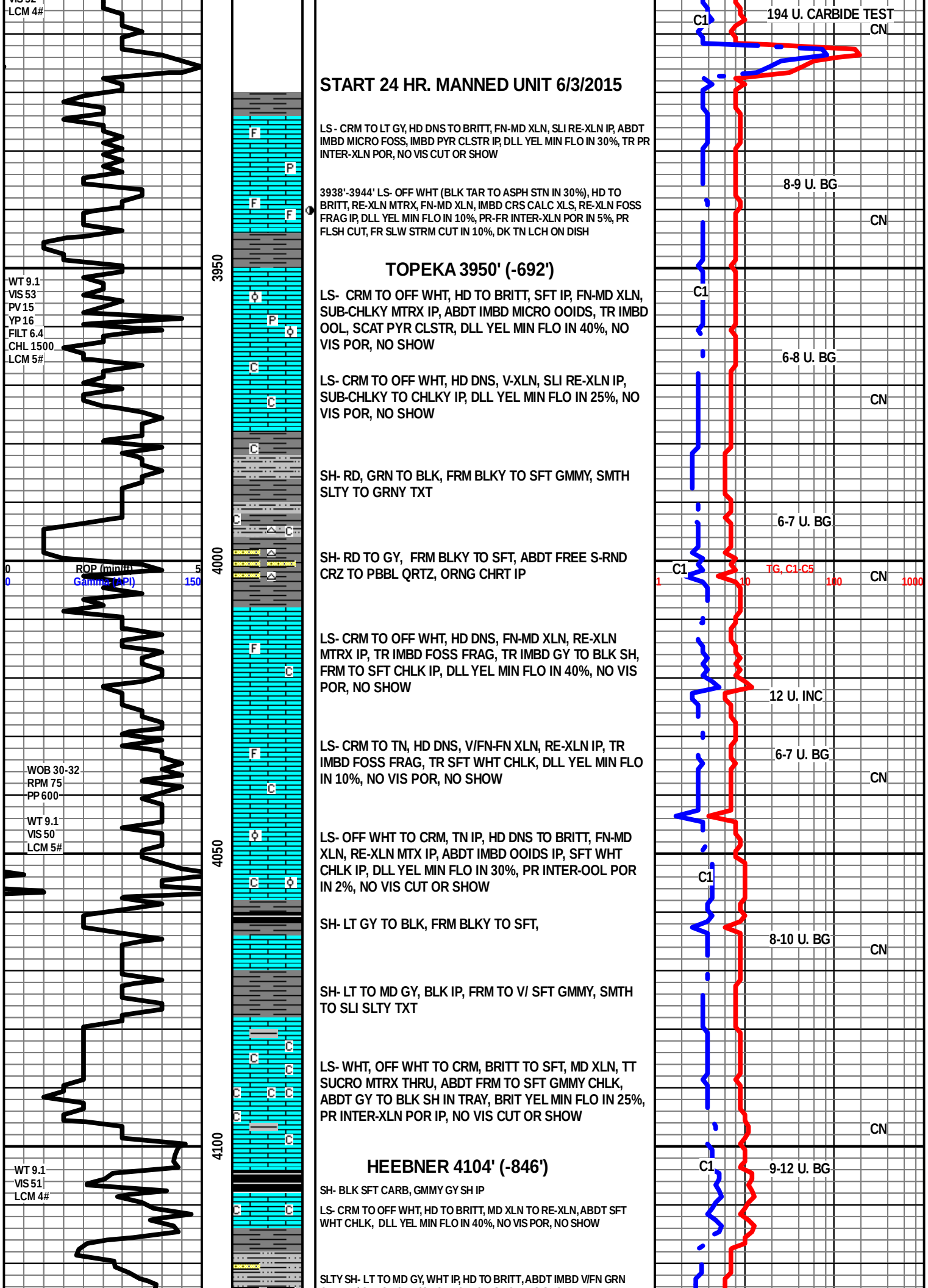
MURFIN RIG #24

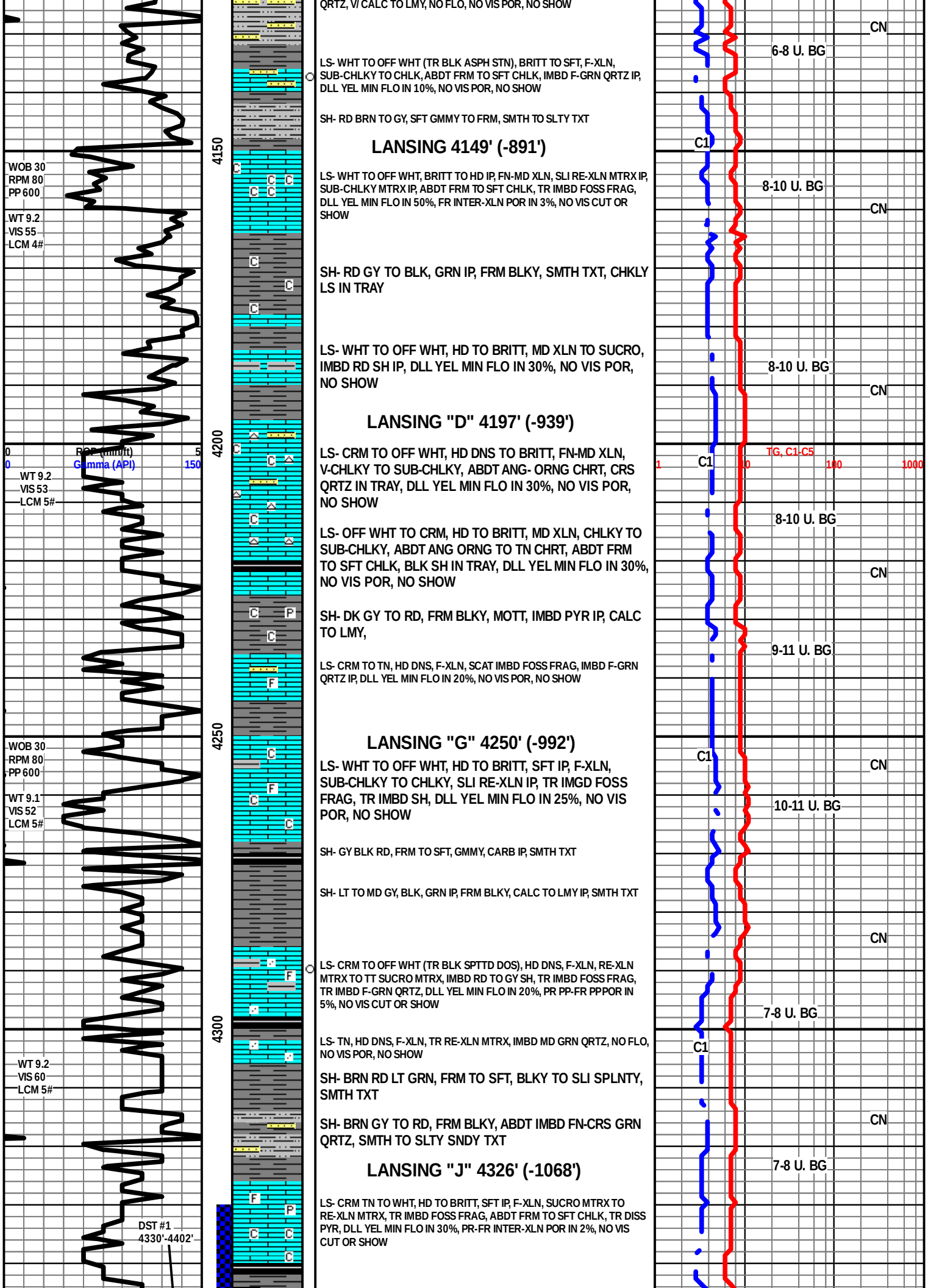
TOOL PUSHER: TONY MARTIN

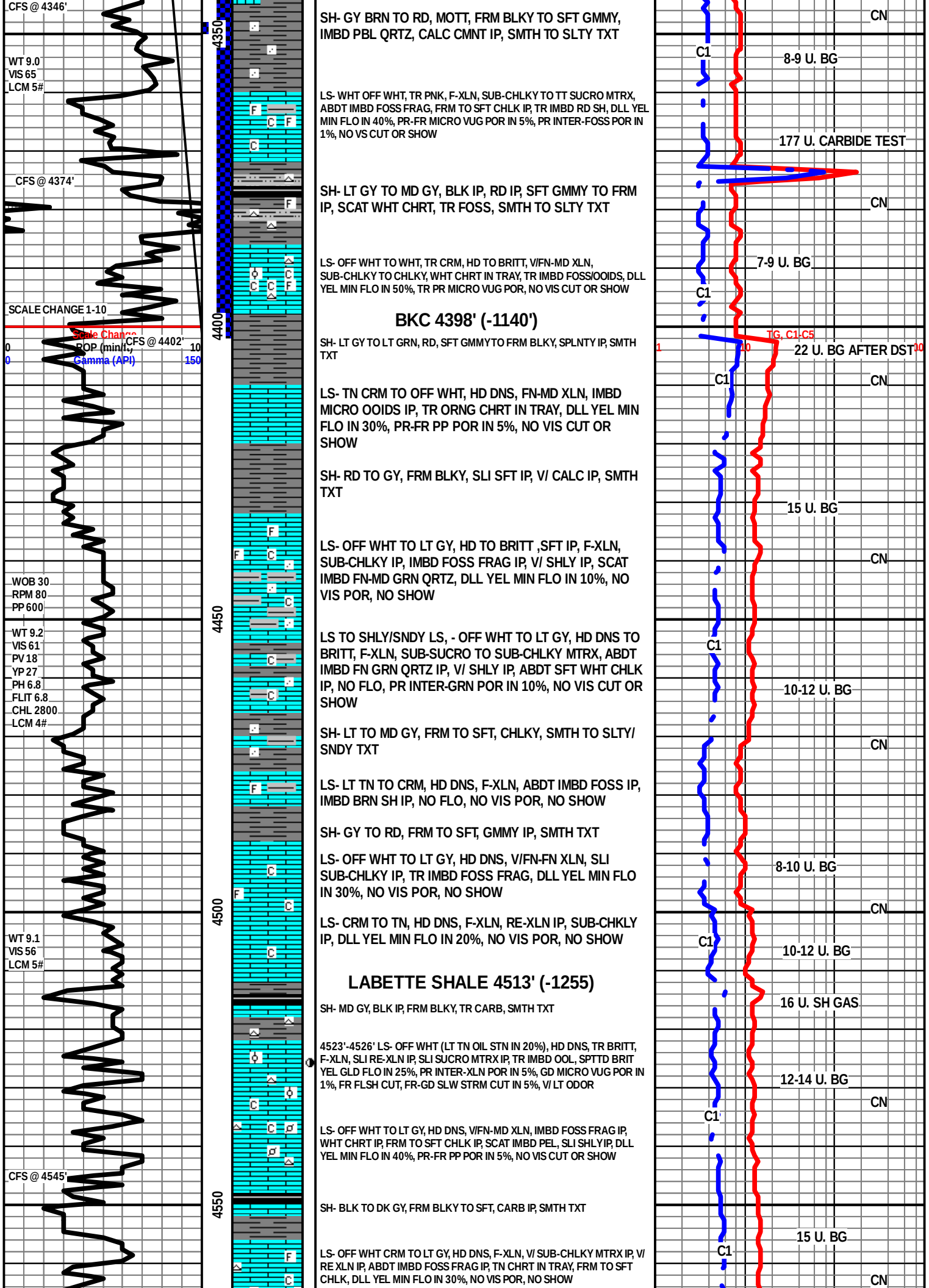
BIT #2 TRICONE
H-C GX 20C
SERIAL # 5251837
SIZE 7 7/8 "
JETS 3-20'S
IN @ 350'

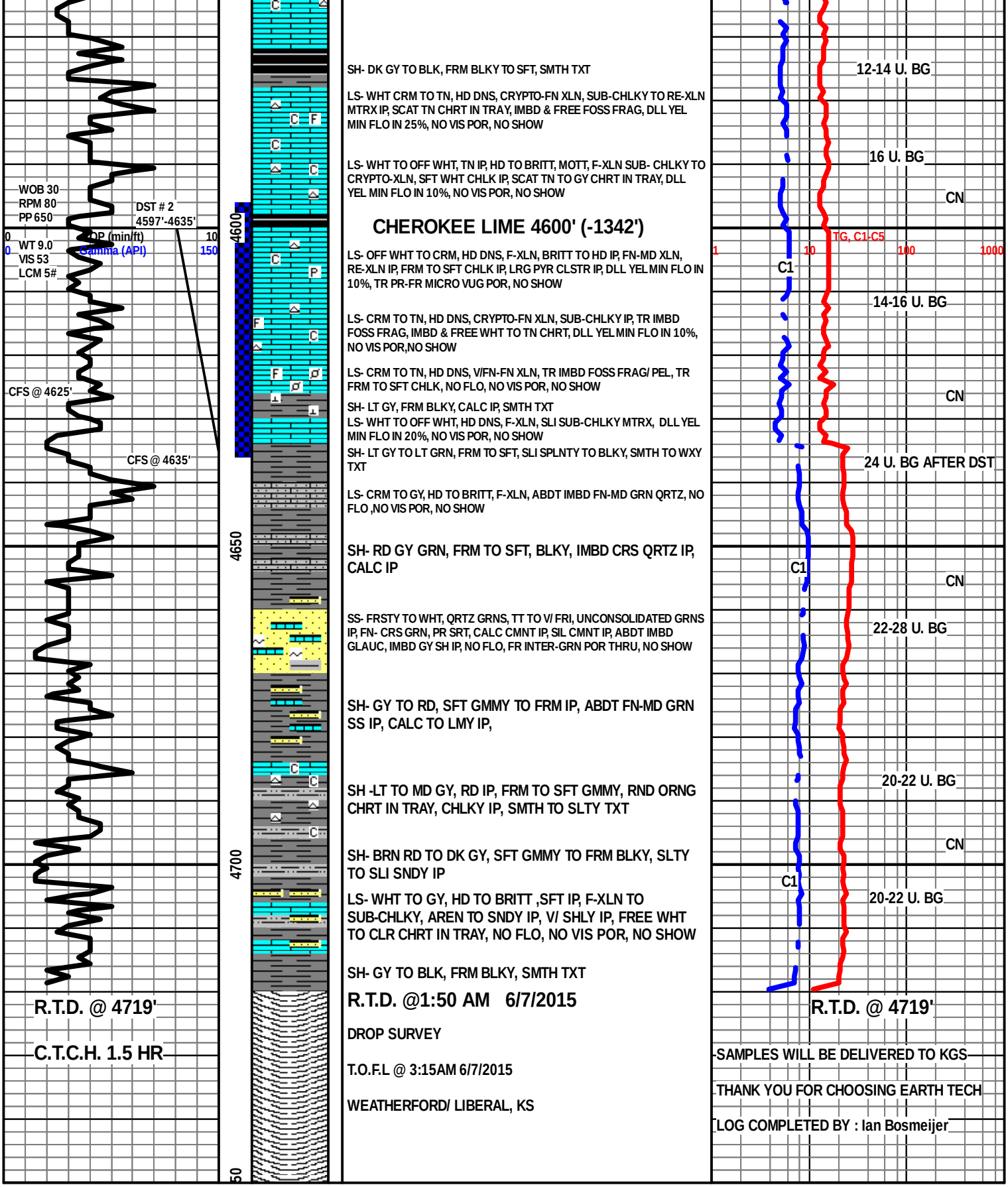
GEOLOGIST ON LOCATION 6/2/2015




LCM 4#
WT 9.1
VIS 53
PV 15
YP 16
FILT 6.4
CHL 1500
LCM 5#
3950
0
ROP (min/ft)
5
0
Gamma (API)
150
4000
WOB 30-32
RPM 75
PP 600
WT 9.1
VIS 50
LCM 5#
4050
WT 9.1
VIS 51
LCM 4#
4100
START 24 HR. MANNED UNIT 6/3/2015
LS - CRM TO LT GY, HD DNS TO BRITT, FN-MD XLN, SLI RE-XLN IP, ABDT IMBD MICRO FOSS, IMBD PYR CLSTR IP, DLL YEL MIN FLO IN 30%, TR PR INTER-XLN POR, NO VIS CUT OR SHOW
3938'-3944' LS- OFF WHT (BLK TAR TO ASPH STN IN 30%), HD TO BRITT, RE-XLN MTRX, FN-MD XLN, IMBD CRS CALC XLS, RE-XLN FOSS FRAG IP, DLL YEL MIN FLO IN 10%, PR-FR INTER-XLN POR IN 5%, PR FLSH CUT, FR SLW STRM CUT IN 10%, DK TN LCH ON DISH
TOPEKA 3950' (-692')
LS- CRM TO OFF WHT, HD TO BRITT, SFT IP, FN-MD XLN, SUB-CHLKY MTRX IP, ABDT IMBD MICRO OOIDS, TR IMBD OOL, SCAT PYR CLSTR, DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW
LS- CRM TO OFF WHT, HD DNS, V-XLN, SLI RE-XLN IP, SUB-CHLKY TO CHLKY IP, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW
SH- RD, GRN TO BLK, FRM BLKY TO SFT GMMY, SMTH SLTY TO GRNY TXT
SH- RD TO GY, FRM BLKY TO SFT, ABDT FREE S-RND CRZ TO PBBL QRTZ, ORNG CHRT IP
LS- CRM TO OFF WHT, HD DNS, FN-MD XLN, RE-XLN MTRX IP, TR IMBD FOSS FRAG, TR IMBD GY TO BLK SH, FRM TO SFT CHLK IP, DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW
LS- CRM TO TN, HD DNS, V/FN-FN XLN, RE-XLN IP, TR IMBD FOSS FRAG, TR SFT WHT CHLK, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW
LS- OFF WHT TO CRM, TN IP, HD DNS TO BRITT, FN-MD XLN, RE-XLN MTX IP, ABDT IMBD OOIDS IP, SFT WHT CHLK IP, DLL YEL MIN FLO IN 30%, PR INTER-OOL POR IN 2%, NO VIS CUT OR SHOW
SH- LT GY TO BLK, FRM BLKY TO SFT,
SH- LT TO MD GY, BLK IP, FRM TO V/ SFT GMMY, SMTH TO SLI SLTY TXT
LS- WHT, OFF WHT TO CRM, BRITT TO SFT, MD XLN, TT SUCRO MTRX THRU, ABDT FRM TO SFT GMMY CHLK, ABDT GY TO BLK SH IN TRAY, BRIT YEL MIN FLO IN 25%, PR INTER-XLN POR IP, NO VIS CUT OR SHOW
HEEBNER 4104' (-846')
SH- BLK SFT CARB, GMMY GY SH IP
LS- CRM TO OFF WHT, HD TO BRITT, MD XLN TO RE-XLN, ABDT SFT WHT CHLK, DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW
SLTY SH- LT TO MD GY, WHT IP, HD TO BRITT, ABDT IMBD V/FN GRN
194 U. CARBIDE TEST
CN
C1
8-9 U. BG
6-8 U. BG
6-7 U. BG
TG, C1-C5
1
10
100
1000
12 U. INC
8-10 U. BG
9-12 U. BG


QRTZ, V/ CALC TO LMY, NO FLO, NO VIS POR, NO SHOW
LS- WHT TO OFF WHT (TR BLK ASPH STN), BRITT TO SFT, F-XLN, SUB-CHLKY TO CHLK, ABDT FRM TO SFT CHLK, IMBD F-GRN QRTZ IP, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW
SH- RD BRN TO GY, SFT GMMY TO FRM, SMTH TO SLTY TXT
LANSING 4149' (-891')
LS- WHT TO OFF WHT, BRITT TO HD IP, FN-MD XLN, SLI RE-XLN MTRX IP, SUB-CHLKY MTRX IP, ABDT FRM TO SFT CHLK, TR IMBD FOSS FRAG, DLL YEL MIN FLO IN 50%, FR INTER-XLN POR IN 3%, NO VIS CUT OR SHOW
SH- RD GY TO BLK, GRN IP, FRM BLKY, SMTH TXT, CHKLY LS IN TRAY
LS- WHT TO OFF WHT, HD TO BRITT, MD XLN TO SUCRO, IMBD RD SH IP, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW
LANSING "D" 4197' (-939')
LS- CRM TO OFF WHT, HD DNS TO BRITT, FN-MD XLN, V-CHLKY TO SUB-CHLKY, ABDT ANG- ORNG CHRT, CRS QRTZ IN TRAY, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW
LS- OFF WHT TO CRM, HD TO BRITT, MD XLN, CHLKY TO SUB-CHLKY, ABDT ANG ORNG TO TN CHRT, ABDT FRM TO SFT CHLK, BLK SH IN TRAY, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW
SH- DK GY TO RD, FRM BLKY, MOTT, IMBD PYR IP, CALC TO LMY,
LS- CRM TO TN, HD DNS, F-XLN, SCAT IMBD FOSS FRAG, IMBD F-GRN QRTZ IP, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW
LANSING "G" 4250' (-992')
LS- WHT TO OFF WHT, HD TO BRITT, SFT IP, F-XLN, SUB-CHLKY TO CHLKY, SLI RE-XLN IP, TR IMGD FOSS FRAG, TR IMBD SH, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW
SH- GY BLK RD, FRM TO SFT, GMMY, CARB IP, SMTH TXT
SH- LT TO MD GY, BLK, GRN IP, FRM BLKY, CALC TO LMY IP, SMTH TXT
LS- CRM TO OFF WHT (TR BLK SPTTD DOS), HD DNS, F-XLN, RE-XLN MTRX TO TT SUCRO MTRX, IMBD RD TO GY SH, TR IMBD FOSS FRAG, TR IMBD F-GRN QRTZ, DLL YEL MIN FLO IN 20%, PR PP-FR PPPOR IN 5%, NO VIS CUT OR SHOW
LS- TN, HD DNS, F-XLN, TR RE-XLN MTRX, IMBD MD GRN QRTZ, NO FLO, NO VIS POR, NO SHOW
SH- BRN RD LT GRN, FRM TO SFT, BLKY TO SLI SPLNTY, SMTH TXT
SH- BRN GY TO RD, FRM BLKY, ABDT IMBD FN-CRS GRN QRTZ, SMTH TO SLTY SNDY TXT
LANSING "J" 4326' (-1068')
LS- CRM TN TO WHT, HD TO BRITT, SFT IP, F-XLN, SUCRO MTRX TO RE-XLN MTRX, TR IMBD FOSS FRAG, ABDT FRM TO SFT CHLK, TR DISS PYR, DLL YEL MIN FLO IN 30%, PR-FR INTER-XLN POR IN 2%, NO VIS CUT OR SHOW
WOB 30
RPM 80
PP 600
WT 9.2
VIS 55
LCM 4#
WT 9.2
VIS 53
LCM 5#
WOB 30
RPM 80
PP 600
WT 9.1
VIS 52
LCM 5#
WT 9.2
VIS 60
LCM 5#
DST #1
4330'-4402'
4150
4200
4250
4300
0
Gamma (API)
150
ROP (min/ft)
5
TG, C1-C5
1
10
100
1000
C1
CN
6-8 U. BG
8-10 U. BG
9-11 U. BG
10-11 U. BG
7-8 U. BG


CFS @ 4346'
WT 9.0
VIS 65
LCM 5#
CFS @ 4374'
SCALE CHANGE 1-10
Scale Change
CFS @ 4402'
0
ROP (min/ft)
10
0
Gamma (API)
150
WOB 30
RPM 80
PP 600
WT 9.2
VIS 61
PV 18
YP 27
PH 6.8
FLIT 6.8
CHL 2800
LCM 4#
WT 9.1
VIS 56
LCM 5#
CFS @ 4545'
4350
4400
4450
4500
4550
SH- GY BRN TO RD, MOTT, FRM BLKY TO SFT GMMY, IMBD PBL QRTZ, CALC CMNT IP, SMTH TO SLTY TXT
LS- WHT OFF WHT, TR PNK, F-XLN, SUB-CHLKY TO TT SUCRO MTRX, ABDT IMBD FOSS FRAG, FRM TO SFT CHLK IP, TR IMBD RD SH, DLL YEL MIN FLO IN 40%, PR-FR MICRO VUG POR IN 5%, PR INTER-FOSS POR IN 1%, NO VS CUT OR SHOW
SH- LT GY TO MD GY, BLK IP, RD IP, SFT GMMY TO FRM IP, SCAT WHT CHRT, TR FOSS, SMTH TO SLTY TXT
LS- OFF WHT TO WHT, TR CRM, HD TO BRITT, V/FN-MD XLN, SUB-CHLKY TO CHLKY, WHT CHRT IN TRAY, TR IMBD FOSS/OOIDS, DLL YEL MIN FLO IN 50%, TR PR MICRO VUG POR, NO VIS CUT OR SHOW
BKC 4398' (-1140')
SH- LT GY TO LT GRN, RD, SFT GMMY TO FRM BLKY, SPLNTY IP, SMTH TXT
LS- TN CRM TO OFF WHT, HD DNS, FN-MD XLN, IMBD MICRO OOIDS IP, TR ORNG CHRT IN TRAY, DLL YEL MIN FLO IN 30%, PR-FR PP POR IN 5%, NO VIS CUT OR SHOW
SH- RD TO GY, FRM BLKY, SLI SFT IP, V/ CALC IP, SMTH TXT
LS- OFF WHT TO LT GY, HD TO BRITT ,SFT IP, F-XLN, SUB-CHLKY IP, IMBD FOSS FRAG IP, V/ SHLY IP, SCAT IMBD FN-MD GRN QRTZ, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW
LS TO SHLY/SNDY LS, - OFF WHT TO LT GY, HD DNS TO BRITT, F-XLN, SUB-SUCRO TO SUB-CHLKY MTRX, ABDT IMBD FN GRN QRTZ IP, V/ SHLY IP, ABDT SFT WHT CHLK IP, NO FLO, PR INTER-GRN POR IN 10%, NO VIS CUT OR SHOW
SH- LT TO MD GY, FRM TO SFT, CHLKY, SMTH TO SLTY/ SNDY TXT
LS- LT TN TO CRM, HD DNS, F-XLN, ABDT IMBD FOSS IP, IMBD BRN SH IP, NO FLO, NO VIS POR, NO SHOW
SH- GY TO RD, FRM TO SFT, GMMY IP, SMTH TXT
LS- OFF WHT TO LT GY, HD DNS, V/FN-FN XLN, SLI SUB-CHLKY IP, TR IMBD FOSS FRAG, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW
LS- CRM TO TN, HD DNS, F-XLN, RE-XLN IP, SUB-CHKLY IP, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW
LABETTE SHALE 4513' (-1255)
SH- MD GY, BLK IP, FRM BLKY, TR CARB, SMTH TXT
4523'-4526' LS- OFF WHT (LT TN OIL STN IN 20%), HD DNS, TR BRITT, F-XLN, SLI RE-XLN IP, SLI SUCRO MTRX IP, TR IMBD OOL, SPTTD BRIT YEL GLD FLO IN 25%, PR INTER-XLN POR IN 5%, GD MICRO VUG POR IN 1%, FR FLSH CUT, FR-GD SLW STRM CUT IN 5%, V/ LT ODOR
LS- OFF WHT TO LT GY, HD DNS, V/FN-MD XLN, IMBD FOSS FRAG IP, WHT CHRT IP, FRM TO SFT CHLK IP, SCAT IMBD PEL, SLI SHLY IP, DLL YEL MIN FLO IN 40%, PR-FR PP POR IN 5%, NO VIS CUT OR SHOW
SH- BLK TO DK GY, FRM BLKY TO SFT, CARB IP, SMTH TXT
LS- OFF WHT CRM TO LT GY, HD DNS, F-XLN, V/ SUB-CHLKY MTRX IP, V/ RE XLN IP, ABDT IMBD FOSS FRAG IP, TN CHRT IN TRAY, FRM TO SFT CHLK, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW
CN
C1
8-9 U. BG
177 U. CARBIDE TEST
7-9 U. BG
TG, C1-C5
1
10
22 U. BG AFTER DST
100
15 U. BG
10-12 U. BG
8-10 U. BG
16 U. SH GAS
12-14 U. BG


WOB 30
RPM 80
PP 650
DST # 2
4597'-4635'
0
WT 9.0
VIS 53
LCM 5#
ROP (min/ft)
10
0
Gamma (API)
150
CFS @ 4625'
CFS @ 4635'
R.T.D. @ 4719'
C.T.C.H. 1.5 HR
4600
4650
4700
50
SH- DK GY TO BLK, FRM BLKY TO SFT, SMTH TXT
LS- WHT CRM TO TN, HD DNS, CRYPTO-FN XLN, SUB-CHLKY TO RE-XLN MTRX IP, SCAT TN CHRT IN TRAY, IMBD & FREE FOSS FRAG, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW
LS- WHT TO OFF WHT, TN IP, HD TO BRITT, MOTT, F-XLN SUB- CHLKY TO CRYPTO-XLN, SFT WHT CHLK IP, SCAT TN TO GY CHRT IN TRAY, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW
CHEROKEE LIME 4600' (-1342')
LS- OFF WHT TO CRM, HD DNS, F-XLN, BRITT TO HD IP, FN-MD XLN, RE-XLN IP, FRM TO SFT CHLK IP, LRG PYR CLSTR IP, DLL YEL MIN FLO IN 10%, TR PR-FR MICRO VUG POR, NO SHOW
LS- CRM TO TN, HD DNS, CRYPTO-FN XLN, SUB-CHLKY IP, TR IMBD FOSS FRAG, IMBD & FREE WHT TO TN CHRT, DLL YEL MIN FLO IN 10%, NO VIS POR,NO SHOW
LS- CRM TO TN, HD DNS, V/FN-FN XLN, TR IMBD FOSS FRAG/ PEL, TR FRM TO SFT CHLK, NO FLO, NO VIS POR, NO SHOW
SH- LT GY, FRM BLKY, CALC IP, SMTH TXT
LS- WHT TO OFF WHT, HD DNS, F-XLN, SLI SUB-CHLKY MTRX, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW
SH- LT GY TO LT GRN, FRM TO SFT, SLI SPLNTY TO BLKY, SMTH TO WXY TXT
LS- CRM TO GY, HD TO BRITT, F-XLN, ABDT IMBD FN-MD GRN QRTZ, NO FLO ,NO VIS POR, NO SHOW
SH- RD GY GRN, FRM TO SFT, BLKY, IMBD CRS QRTZ IP, CALC IP
SS- FRSTY TO WHT, QRTZ GRNS, TT TO V/ FRI, UNCONSOLIDATED GRNS IP, FN- CRS GRN, PR SRT, CALC CMNT IP, SIL CMNT IP, ABDT IMBD GLAUC, IMBD GY SH IP, NO FLO, FR INTER-GRN POR THRU, NO SHOW
SH- GY TO RD, SFT GMMY TO FRM IP, ABDT FN-MD GRN SS IP, CALC TO LMY IP,
SH -LT TO MD GY, RD IP, FRM TO SFT GMMY, RND ORNG CHRT IN TRAY, CHLKY IP, SMTH TO SLTY TXT
SH- BRN RD TO DK GY, SFT GMMY TO FRM BLKY, SLTY TO SLI SNDY IP
LS- WHT TO GY, HD TO BRITT ,SFT IP, F-XLN TO SUB-CHLKY, AREN TO SNDY IP, V/ SHLY IP, FREE WHT TO CLR CHRT IN TRAY, NO FLO, NO VIS POR, NO SHOW
SH- GY TO BLK, FRM BLKY, SMTH TXT
R.T.D. @1:50 AM 6/7/2015
DROP SURVEY
T.O.F.L @ 3:15AM 6/7/2015
WEATHERFORD/ LIBERAL, KS
12-14 U. BG
16 U. BG
CN
TG, C1-C5
1
10
100
1000
C1
14-16 U. BG
CN
24 U. BG AFTER DST
C1
CN
22-28 U. BG
20-22 U. BG
CN
C1
20-22 U. BG
R.T.D. @ 4719'
SAMPLES WILL BE DELIVERED TO KGS
THANK YOU FOR CHOOSING EARTH TECH
LOG COMPLETED BY : Ian Bosmeijer