



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1200503
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: _____

1200503

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Barker 2-23
Doc ID	1200503

Tops

Name	Top	Datum
Heebner (base)	3924	-970
Lansing A	3966	-1012
Lansing B	4008	-1054
Lansing C	4046	-1092
Lansing D	4102	-1148
Lansing F	4182	-1228
Lansing G	4242	-1228
Lansing H	4270	-1316
KS City A	4392	-1438
KS City B	4452	-1498
KS City C	4492	-1538
KS City (base)	4522	-1568
Marmaton	4546	-1592
Marmaton B	4572	-1618
Pawnee	4632	-1678
Ft Scott	4674	-1720
Cherokee	4686	-1732
Atoka	4790	-1836
Morrow	4939	-1985
Chester	5072	-2118
St Gen	5150	-2196
St Louis	5215	-2261
RTD	5400	
LTD	5402	

ALLIED OIL & GAS SERVICES, LLC 052518

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Liberals KS

DATE <u>2-18-14</u>	SEC <u>23</u>	TWP <u>26S</u>	RANGE <u>24W</u>	CALLED OUT	ON LOCATION <u>8:00am</u>	JOB START <u>12:30pm</u>	JOB FINISH <u>2:00pm</u>
LEASE <u>Barker</u> WELL# <u>2-23</u> LOCATION <u>veg Garden City</u>				COUNTY <u>Finney</u>		STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR <u>Beredco #1</u>	
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>1795</u>
CASING SIZE <u>8 7/8</u>	DEPTH <u>1750</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>40.63</u>
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>108.8661</u>	
EQUIPMENT	
PUMP TRUCK CEMENTER <u>Lonny Baeza</u>	
# <u>599-880</u> HELPER <u>Jaime Maldonado</u>	
BULK TRUCK	
# <u>530-786 TB</u> DRIVER <u>Ricardo Landa</u>	
BULK TRUCK	
#	DRIVER

OWNER	
CEMENT	
AMOUNT ORDERED <u>625SK 65-BS 60gal</u>	
<u>30acc 14# flo</u>	
<u>150SK CLASS# 30acc 14# flo</u>	
COMMON <u>150SK</u>	@ <u>17.90</u> <u>2685.00</u>
POZMIX	@
GEL	@
CHLORIDE <u>27SK</u>	@ <u>64.00</u> <u>1728.00</u>
ASC	@
<u>flo seal 157#</u>	@ <u>2.97</u> <u>466.29</u>
<u>Allied light weight cement</u>	@ <u>16.80</u> <u>1032.50</u>
	@
	@
	@
	@
	@
	@
HANDLING <u>600.47</u>	@ <u>2.48</u> <u>2183.57</u>
MILEAGE <u>1848.70</u>	@ <u>2.60</u> <u>4806.62</u>
TOTAL <u>22181.98</u>	

REMARKS:

SERVICE

DEPTH OF JOB <u>1001-2000</u>	
PUMP TRUCK CHARGE <u>2213.75</u>	
EXTRA FOOTAGE	@
MILEAGE <u>50</u>	@ <u>7.70</u> <u>385.00</u>
MANIFOLD	@
	@
	@
TOTAL <u>2598.75</u>	

PLUG & FLOAT EQUIPMENT

Industrial Rubber			
<u>Guide Shoe</u>	<u>1</u>	@ <u>432.00</u>	<u>432.00</u>
<u>APU Float Valve</u>	<u>1</u>	@ <u>254.00</u>	<u>254.00</u>
<u>Centralizer</u>	<u>3</u>	@ <u>74.00</u>	<u>222.00</u>
<u>100 Rubber Plug</u>	<u>1</u>	@ <u>122.00</u>	<u>122.00</u>
		@	
			TOTAL <u>1030.00</u>

CHARGE TO: Berexco LLC
STREET _____
CITY _____ STATE _____ ZIP _____

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 Craig Weeks
SIGNATURE Craig Weeks

SALES TAX (If Any) _____
TOTAL CHARGES \$ 25910.73
DISCOUNT # _____ IF PAID IN 30 DAYS
Net \$ 18583.73



CEMENTING LOG

Date 2/18/2014 District Liberal # 21 Ticket No. 52518
 Company Berexco Rig Berexco # 1
 Lease Barker Well No 2-23
 County Finney State KS
 Location _____
 Field _____
 Casing Data Conductor PTA Squeeze Misc.
 Surface Intermediate Production Liner
 Size 8 5/8 Type _____ Weight 24# Collar _____

Casing Depths Top 0 Bottom 1750

Drill Pipe: BBLs/LIN. FT _____ LIN. FT/BBL _____
 Open Hole: BBLs/LIN. FT _____ LIN. FT/BBL _____
 Capacity Factors: BBLs/LIN. FT 0.0637 LIN. FT/BBL 15.7
 Casing BBLs/LIN. FT 0.0637 LIN. FT/BBL 15.7
 Open Holes BBLs/LIN. FT 0.1458 LIN. FT/BBL 6.85
 Drill Pipe BBLs/LIN. FT _____ LIN. FT/BBL _____
 Annulus BBLs/LIN. FT 0.0735 LIN. FT/BBL 13.6
 Perforations From _____ ft to _____ ft Amt _____

CEMENT DATA

Spacer Type _____ H2O
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 LEAD: Time _____ hrs. Type 65/35 6% gel 3% CC
.5# flo seal Excess _____
 Amt. 625 Sks Yield 1.97 ft³/sk Density 12.4 PPG
 TAIL: Time _____ hrs. Type Class A 3%CC .25# flo Seal
 Excess _____
 Amt. 150 Sks Yield 1.18 ft³/sk Density 15.6 PPG
 WATER Lead 10.9 Gal/sk Tail 5.3 Gal/sk Total _____ BBLs

Pump Trucks Used: 549-550
 Bulk Equipment 530-8670

Float Equipment: Manufacturer Weather Ford
 Shoe: Type Guide Shoe Depth 1742
 Float: Type AFU Insert Float Depth 1700
 Centralizers: Quantity 3 Plugs Top _____ Bottom _____
 Stage Collars _____
 Special Equipment Cement Basket
 Disp: Fluid Type H2O Amt 108.3 bbls Weight 8.33 PPG
 Mud Type _____ Weight _____

COMPANY REPRESENTATIVE

Craig Black

CEMENTER

Lenny Baeza

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLs/Min	
8:00pm						On location at 8:00pm
12:00pm						Rigging up to well head
12:35pm	2000					Safety meeting with rigg crew Pressure testing pumping lines to 2000 psi
12:40pm	200		10		5	10 bbls of H2O head of cement
1:23pm	220		229		5	Mixing lead cement @ 12.4#
1:30pm	180		265		4	Mixing Tail cement @ 15.6#
	0		0		0	End of cement shutting down to release plug
1:40pm	120		265		5	Plug left the head and started displacement of 108.3 bbls
1:48pm			315			50 bbls gone
1:56pm	600		365		5	100 bbls gone 5bpm @ 600 psi
2:00pm	1600		373		3	108 bbls gone and landed the plug bumped to 1200 psi and holding released the psi and float holding 45bbls of cement to surface rigging down iron
						leaving location @ 2:30pm
						THANK YOU !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

FINAL DISP. PRESS. 600 PSI BUMP PLUG TO 1200 PSI BLEEDBACK 1 BBLs THANK YOU

ALLIED OIL & GAS SERVICES, LLC 052391

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Liberol Ks.

DATE <u>02-19-14</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Barker</u>	WELL # <u>223</u>	LOCATION <u>Hwy 83 + Tr Rd, W. 7 1/2 Miles</u>	COUNTY <u>Finney</u>	STATE <u>Ks.</u>			
OLD OR <u>NEW</u> (Circle one)		S. 1/2 M. E 1/4 M. N 1/4					

CONTRACTOR Dredco FI OWNER Brexco Inc.

TYPE OF JOB Surface Top off 1"

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 5/8 2477 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 50 PSI MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT -

EQUIPMENT

PUMP TRUCK CEMENTER Robert Chavez
549-550 HELPER Jaine Torre
BULK TRUCK
774-744 DRIVER Alex Ayala
BULK TRUCK DRIVER

REMARKS:

CEMENT

AMOUNT ORDERED 160 sk 'A'

COMMON 'A' 160 sk @ 17.90 2,864.00
POZMIX @
GEL @
CHLORIDE @
ASC @

HANDLING 160 C. ft @ 2.48 396.80
MILEAGE 376 Ton M. @ 2.60 977.60
TOTAL 4238.40

SERVICE

DEPTH OF JOB 0-500 ft
PUMP TRUCK CHARGE 1,512.25
EXTRA FOOTAGE @
MILEAGE heavy 50 Mi. @ 7.70 385.00
MANIFOLD @
light Weibels 50 Mi. @ M.Ns 220.00

CHARGE TO: Brexco Inc.

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 2117.25

PLUG & FLOAT EQUIPMENT

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.

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES 6,355.65

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Craig Weeks

SIGNATURE Craig Weeks

NET = 4,576.07



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

TIME ON: 9-Mar 11:40 pm
 TIME OFF: 10-Mar 1:30 am

DRILL-STEM TEST TICKET
 FILE: **BARKER2DST1**

Company BEREXCO LLC Lease & Well No. BARKER #2-23
 Contractor BEREDCO RIG #1 Charge to BEREXCO LLC
 Elevation 2954' KB Formation MORROW SAND Effective Pay FIELD: WILDCAT Ft. Ticket No. F256
 Date 10-Mar-2014 Sec. 23 Twp. 26 S Range 34 W County FINNEY State KANSAS
 Test Approved By IAN BOSMEIJER Diamond Representative JAKE FAHRENBRUCH

Formation Test No. ONE Interval Tested from 4,934 ft. to 4,980 ft. Total Depth 4,980 ft.

Packer Depth 4,929 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 4,934 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4,912 ft. Recorder Number 5,951 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4,938 ft. Recorder Number 5,584 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 56 sec/qt (LCM 2#/BBL) Drill Collar Length 625 ft. I.D. 2 1/4 in.

Weight 9.3 lb/gal Water Loss 5.6 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.

Chlorides 1,300 P.P.M. Drill Pipe Length 4,276 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number #5 J&Jt Test Tool Length 33 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 46 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: FAIRLY WEAK BLOW, INCREASED TO 9". NO BLOW-BACK.

2nd Open: FAIRLY WEAK BLOW, INCREASED TO 7". NO BLOW-BACK.

Recovered 25 ft. of OCM 20% OIL, 80% MUD

Recovered _____ ft. of 250' GAS IN PIPE

Recovered _____ ft. of TOOL SAMPLE: HOCM, 35% OIL, 65% MUD

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: No steps from catwalk to rig floor.

Tore-up a 26" packer rubber when pulled tool off bottom. Loading tools per Ken Wallace's orders.

Price Job	\$1,225.00
JARS, SAFETY JT.	
Other Charges	\$325.00
308 MILES R.T. @ \$1.40 / MILE	
Insurance	\$431.20
ACCESSIBILITY CHARGE \$150.00 (RUINED 26" PACKER \$250)	\$400.00
Total	\$2,381.20

Time Set Packer(s) 4:23 AM Time Started Off Bottom 8:53 AM Maximum Temperature 121 F

Initial Hydrostatic Pressure..... (A) 2,412 P.S.I.

Initial Flow Period..... 4:23-4:53 Minutes 30 (B) 18 P.S.I. to (C) 33 P.S.I.

Initial Closed In Period..... 4:53-5:53 Minutes 60 (D) 108 P.S.I.

Final Flow Period..... 5:53-6:53 Minutes 60 (E) 29 P.S.I. to (F) 37 P.S.I.

Final Closed In Period..... 6:53-8:53 Minutes 120 (G) 138 P.S.I.

Final Hydrostatic Pressure..... (H) 2,402 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	BEREXCO LLC	Well Name	BARKER #2-23
Well Operator	BEREXCO LLC	Unique Well ID	DST #1 MORROW SAND 4934'-4980'
Contact	EVAN MAHEW 316-265-3311	Surface Location	Sec23-26s-34w-FINNEY Co.-KS
Site Contact	IAN BOSMEIJER 580-754-0221	Test Unit	#5
Field	WILDCAT	Pool	WILDCAT
Well Type	Vertical	Job Number	F256
Prepared By	JAKE FAHRENBRUCH 620-282-8977	Qualified By	IAN BOSMEIJER

Test Information

Test Type	BOTTOM-HOLE W/ J & S.Jt.	Test Purpose	Initial Test
Formation	MORROW SAND 4934'-4980'	Gauge Name	INSIDE 5951
Start Test Date	2014/03/09	Start Test Time	23:40:00
Final Test Date	2014/03/10	Final Test Time	11:30:00

Test Results

30 MIN INITIAL FLOW PERIOD: FAIRLY WEAK BLOW, INCREASED TO 9".
60 MIN INITIAL SHUT-IN PERIOD: NO BLOW-BACK.
60 MIN FINAL FLOW PERIOD: FAIRLY WEAK BLOW, INCREASED TO 7".
120 MIN FINAL SHUT-IN PERIOD: NO BLOW-BACK.

RECOVERED:

25' OCM 20% OIL, 80% MUD

250' G.I.P.

TOOL SAMPLE: HOVM, 35% OIL, 65% MUD

PRESSURES:

IHP: 2412
IFP: 18-33
ISIP: 108
FFP: 29-37
FSIP: 138
FHP: 2402

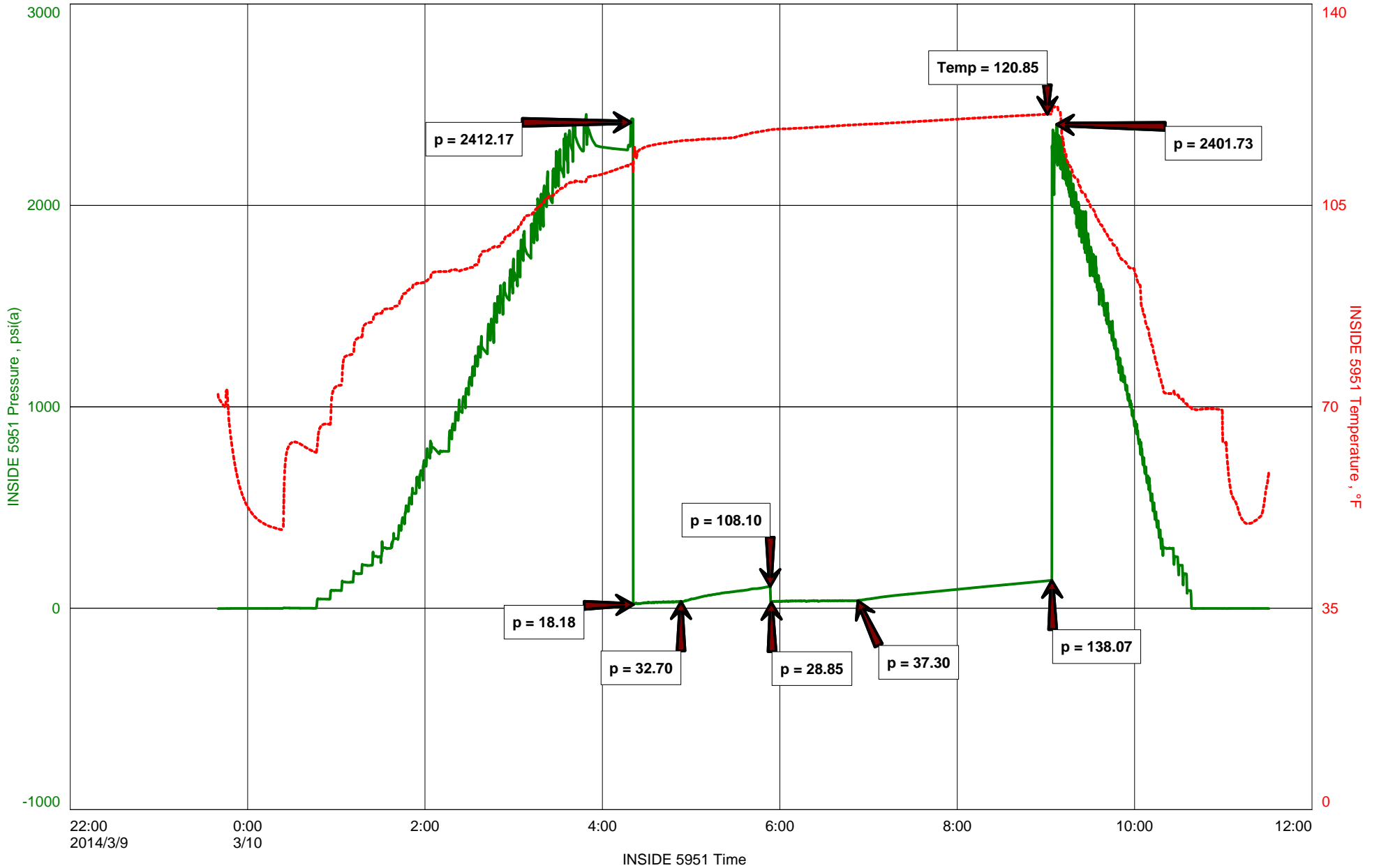
THANKS!

JF

BEREXCO LLC
DST #1 MORROW SAND 4934'-4980'
Start Test Date: 2014/03/09
Final Test Date: 2014/03/10

BARKER #2-23
Formation: MORROW SAND 4934'-4980'
Pool: WILDCAT
Job Number: F256

BARKER #2-23



DIAMOND TESTING

General Information Report

General Information

Company Name BEREXCO, LLC
Contact EVAN MAYHEW
Well Name BARKER #2-23
Unique Well ID DST #2, MORROW, 5037-5050
Surface Location SEC 23-26S-34W, FINNEY CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #2, MORROW, 5037-5050
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator BEREXCO, LLC
Report Date 2014/03/11
Prepared By TIM VENTERS
Qualified By IAN BOSMEIJER

Start Test Date 2014/03/11
Final Test Date 2014/03/11

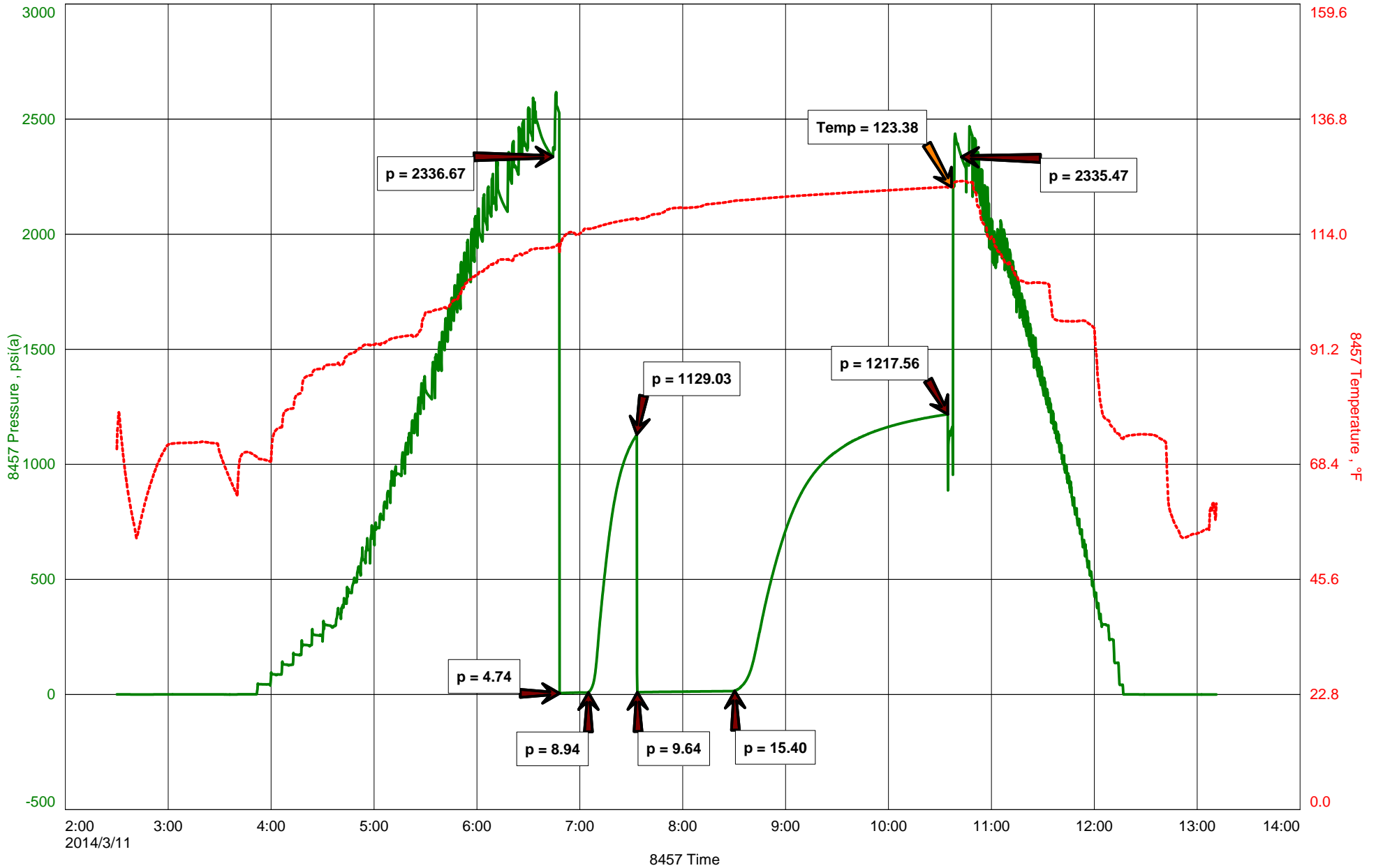
Start Test Time 02:30:00
Final Test Time 13:11:00

Test Recovery:

RECOVERED: 20' M W/TR. O, TRACE OIL, 100% MUD

TOOL SAMPLE: TRACE OIL, 100% MUD

BARKER #2-23





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BARKER2-23DST2

TIME ON: 02:30
TIME OFF: 13:11

Company BEREXCO, LLC Lease & Well No. BARKER #2-23
Contractor BEREDCO, LLC RIG #1 Charge to BEREXCO, LLC
Elevation 2954 KB Formation MORROW Effective Pay _____ Ft. Ticket No. T321
Date 3-11-14 Sec. 23 Twp. 26 S Range 34 W County FINNEY State KANSAS
Test Approved By IAN BOSMEIJER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 5037 ft. to 5050 ft. Total Depth 5050 ft.
Packer Depth 5032 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 5037 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5018 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 5047 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 46 Drill Collar Length 622 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3,000 P.P.M. Drill Pipe Length 4382 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 13 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW THROUGHOUT PERIOD. (NO BB)
2nd Open: VERY WEAK SURFACE BLOW LASTING 10-15 MIN. (NO BB)

Recovered <u>20</u> ft. of <u>M W/TR. O, TRACE OIL, 100% MUD</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>TRACE OIL, 100% MUD</u>	Total

Time Set Packer(s) 6:48 AM A.M. P.M. Time Started Off Bottom 10:33 AM A.M. P.M. Maximum Temperature 123 deg.
Initial Hydrostatic Pressure..... (A) 2337 P.S.I.
Initial Flow Period..... Minutes 15 (B) 5 P.S.I. to (C) 9 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1129 P.S.I.
Final Flow Period..... Minutes 60 (E) 10 P.S.I. to (F) 15 P.S.I.
Final Closed In Period..... Minutes 120 (G) 1218 P.S.I.
Final Hydrostatic Pressure..... (H) 2335 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

ALLIED OIL & GAS SERVICES, LLC 052531

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Liberall KS

DATE <u>3-14-14</u>	SEC <u>23</u>	TWP <u>26S</u>	RANGE <u>34W</u>	CALLED OUT	ON LOCATION <u>12:00am</u>	JOB START <u>4:00am</u>	JOB FINISH <u>8:00am</u>
LEASE <u>Barker</u>	WELL # <u>2-23</u>	LOCATION <u>Vec Garden City KS</u>			COUNTY <u>Finney</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Berexco #1

TYPE OF JOB PTA

HOLE SIZE 7 1/8 T.D. _____

CASING SIZE 8 5/8 DEPTH 1750

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER _____

CEMENT AMOUNT ORDERED 1100sk 68/40 4% gel

COMMON	<u>96sk</u>	@ <u>17.90</u>	<u>1716.40</u>
POZMIX	<u>64sk</u>	@ <u>9.35</u>	<u>598.40</u>
GEL	<u>10sk</u>	@ <u>23.40</u>	<u>234.00</u>
CHLORIDE		@	
ASC		@	
HANDLING	<u>166</u>	@ <u>2.48</u>	<u>411.68</u>
MILEAGE	<u>358</u>	@ <u>2.60</u>	<u>930.80</u>
			TOTAL 3799.68

EQUIPMENT

PUMP TRUCK CEMENTER Lenny Balza

549-550 HELPER Jame M.

BULK TRUCK DRIVER Gregory R.

472-550

BULK TRUCK DRIVER _____

REMARKS:

Thank You!!!

CHARGE TO: Berexco

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE 2249.84

EXTRA FOOTAGE @ _____

MILEAGE 50 @ 7.70 385.00

MANIFOLD @ _____

Additional hours 2 @ 440.00 880.00

TOTAL 3514.84

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 John Love

SIGNATURE [Signature]

SALES TAX (if Any) _____

TOTAL CHARGES \$ 7314.52

DISCOUNT Net \$ 5266.45 IF PAID IN 30 DAYS

CEMENTING LOG

Date 3/14/2014 District Liberal #21 Ticket No. 52531
 Company Berexco Rig Berexco # 1
 Lease Barker Well No 2-23
 County Finney State KS
 Location _____
 Field _____
 Casing Data Conductor PTA Squeeze Misc.
 Surface Intermediate Production Liner
 Size 8 5/8 Type _____ Weight 24# Collar _____

Casing Depths Top 0 Bottom 1750

Drill Pipe: BBLs/LIN. FT _____ LIN. FT/BBL _____
 Open Hole: BBLs/LIN. FT _____ LIN. FT/BBL _____
 Capacity Factors: BBLs/LIN. FT 0.0637 LIN. FT/BBL 15.7
 Casing: BBLs/LIN. FT 0.0637 LIN. FT/BBL 15.7
 Open Holes: BBLs/LIN. FT 0.1458 LIN. FT/BBL 6.85
 Drill Pipe: BBLs/LIN. FT _____ LIN. FT/BBL _____
 Annulus: BBLs/LIN. FT 0.0735 LIN. FT/BBL 13.6
 Perforations From _____ ft to _____ ft Amt _____

CEMENT DATA

Spacer Type _____
 Amt. _____ Skys Yield _____ ft/sk Density _____ PPG
 LEAD: Time _____ hrs. Type 60/40 4% Gel
 Excess _____
 Amt. 150 Skys Yield 1.5 ft/sk Density 13.5 PPG
 TAIL: Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Skys Yield _____ ft/sk Density _____ PPG
 WATER Lead 7.5 Gal/sk Tail _____ Gal/sk Total _____ BBLs
 Pump Trucks Used: 549-550
 Bulk Equipment 472-554

Float Equipment: Manufacturer Weather Ford
 Shoe: Type Guide Shoe Depth 1742
 Float: Type AFU Insert Float Depth 1700
 Centralizers: Quantity 3 Plugs Top _____ Bottom _____
 Stage Collars _____
 Special Equipment Cement Basket
 Disp: Fluid Type H2O Amt 106.3 bbls Weight 8.33 PPG
 Mud Type _____ Weight _____

COMPANY REPRESENTATIVE _____

CEMENTER _____

Lenny Boeza

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLs/MIN	
12:00am						On location at 12:00am
4:00am						Rigging up to well head
						Safety meeting with rig crew
4:37am	200		100		5	Pumping water ahead to clean hole out plug @ 1790'
5:00am	100		112		3	Mixing first plug of 50 sk total of 12.6 bbls of slurry
5:05am	100		134		5	Displacement of 22 bbls
6:00am	120		144		4	10 bbls of water ahead to get returns and fill hole
6:03am	100		154		4	mixing second plug @ 850' total of 10 bbls of slurry
6:55am	80		164		4	10 bbls of water ahead to get returns and fill hole
7:00am	80		169		4	mixing third plug @ 60' total of 5 bbls of slurry
7:25am	70		176.5		4	Plugging rat hole
7:32am	60		182		3	Plugging mouse hole
						leaving location @ 9:00am
						THANK YOU !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

FINAL DISP. PRESS. _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLs THANK YOU



EARTH TECH OGL, INC
 PO BOX 683 8918th st
 HOOKER, OK 73945 GREAT BEND, KANSAS 67531
 1-888-543-8378

COMPANY: Berexco LLC
 WELL: Barker #2-23
 FIELD: _____ COUNTY: Finney STATE: KS
 LOCATION: Sec 23. Twnp 26S. Rng 34W
2194 FNL, 988' FEL
 Interval Logged: 3700 To: 4980 G.L.: 2942 K.B: 2954
 Date Logged: 2/21/14 To: 3/13/14 Spud Date: 2/16/14
 Rig: Beredco Unit No.: 1
 Loggers: Ian Bosmeijer
 Api No.: 15-055-22283
 Filename: barker-2-23.mlw
 Geologist: Pete Wilson

Abbreviations:

NB...New Bit DST...Drill Stem Test
 CO...Circ Out DS...Directional Survey
 NR...No Returns CG...Connection gas
 TG...Trip Gas LAT...Logged After Trip
 WOB...Wt on Bit PP...Pump Pressure
 RPM...Rev/Min SPM...Strokes/Min
 SG...Survey Gas DTG...Down Time Gas

Mud Data

WT..Weight V..Viscosity
 PH..Acidity F..Filtrate
 CHL..Chlorides SC..Solids Content

Lithology Symbols:

Anhydrite	Salt	Granite
Siltstone	Chert	Sandstone
Dolomite	Conglomerate	Limestone
Coal	Shale	Bentonite
Carb Shale	Granite Wash	Quartz Wash
Red Sh	Org Sh	Green Sh
Cust Sh1	Cust Sh2	Cust Sh3
Cust Sh4	Cust Sh5	Cust Sh6

Gas Chromatograph Analysis:

HW HW
 C1 C1
 C2 C2
 C3 C3
 IC4 IC4
 NC4 NC4
 IC5 IC5

Accessories

Glauconite Pyrite Fossils Oolites
 Fractures Cement

Drilling Rate MIN/FT	Vis Por Tr / p f g	Lithology % OCut F <u>u</u> TrTr / p f pfg	Descriptions/Remarks	Total Gas/Chromatograph

3700

WOB 8-12
RPM 120
PP 800
SPM 56

WT 9.0
VIS 36
LCM 2#

LS- OFF WHT TO LT CRM, HD
DNS, F-XLN TO TT SUCRO IP,
SFT WHT CHLK IP, DLL YEL MIN
FLO IN 20%, NO VIS POR, NO
VIS SHOW

c

LS- WHT OFF WHT TO LT TN, HD
TO BRITT, F-XLN TO SUB CHLKY,
TR IMBD FOSS FRAG, DLL YEL
MIN FLO IN 20%, NO VIS POR,
NO VIS SHOW

50

c

LS- OFF WHT TO LT GY, HD TO
V/BRITT, F-XLN TO SUB-CHLKY,
IMBD SH IP, IMBD FOSS FRAG,
DLL YEL MIN FLO IN 15%, NO
VIS POR, NO VIS SHOW

c

SH- LT GY TO BLK, FRM BLKY,
CALC IP, SMTH TO SLI GRNY TXT

3800

LS - WHT TO LT TN, HD DNS TO
BRITT, F-XLN TO CRYPTO-XLN,
SFT WHT CHLK IP, TR IMBD SH,
DLL YEL MIN FLO IN 10%, NO
VIS POR, NO VIS SHOW

1 2 3 4 5

c

LS- OFF WHT TO LT GY, HD TO
BRITT, F-XLN, TR RE-XLN MTRX
IP, SCAT FOSS FRAG IP, DLL
YEL MIN FLO IN 10%, NO VIS
POR, NO VIS SHOW

NO SAMPLE CAUGHT BY RIG

50

c

LS- OFF WHT TO LT GY, HD TO
BRITT, MD-XLN TO F-XLN, ABTD
RE-XLN MTRX IP, SCAT SFT WHT
CHLK IP, ARG TO SHLY IP, NO
FLO, NO VIS POR, NO SHOW

c

LS- OFF WHT TO LT GYM, SFT
BRIT TO TR HD, F-XLN TO
SUB-CHLKY, IMBD BRN SH IP,

HW

52 U. POSSIBLE GAS SHOW

C3/C

49 U. SH GAS

36 U. SH GAS

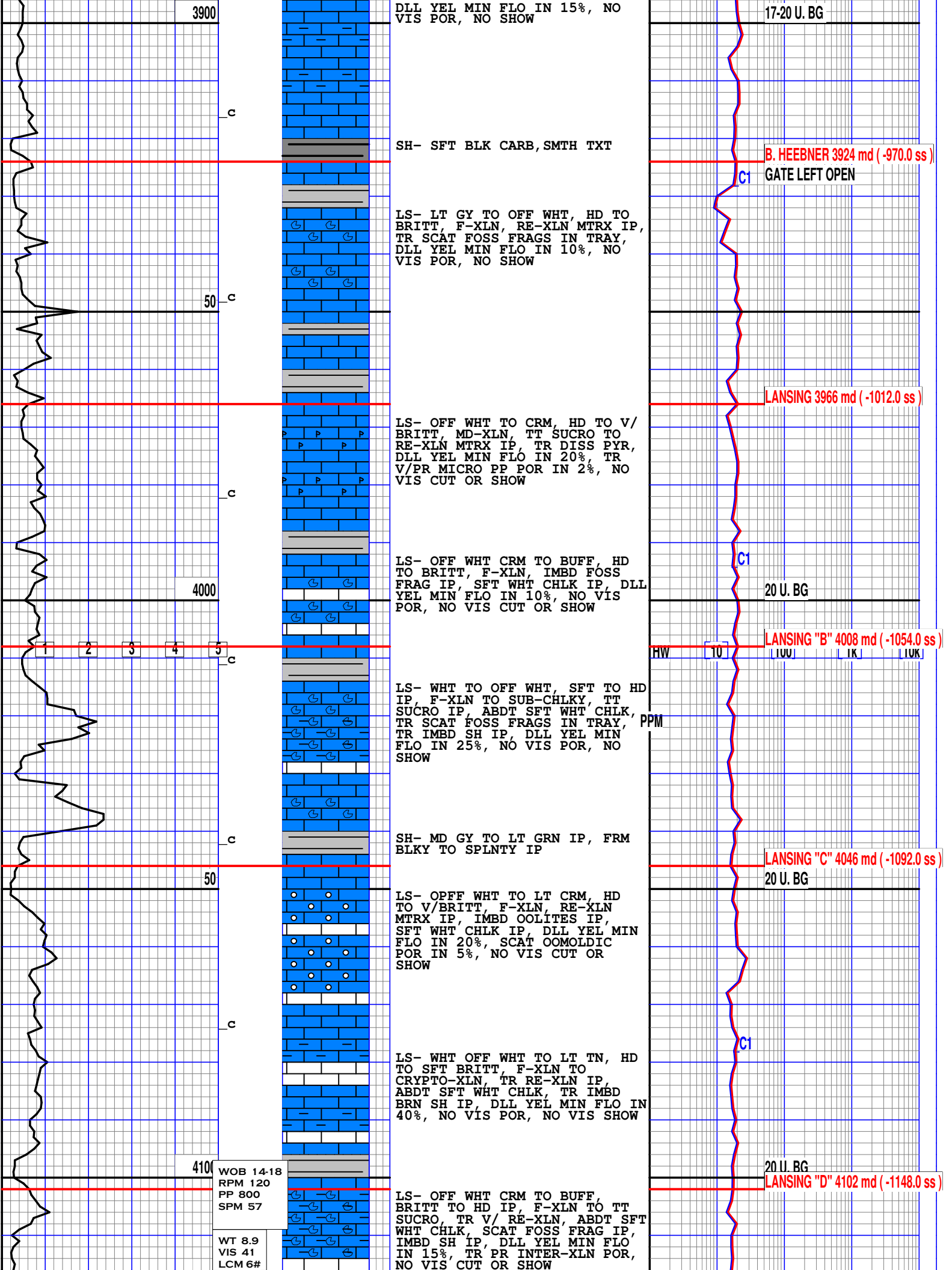
HW 10 100 1k 10k

20 U. BG

PPM

C1

26 U. SH GAS



3900

DLL YEL MIN FLO IN 15%, NO VIS POR, NO SHOW

17-20 U. BG

c

SH- SFT BLK CARB, SMTH TXT

B. HEEBNER 3924 md (-970.0 ss)
GATE LEFT OPEN

LS- LT GY TO OFF WHT, HD TO BRITT, F-XLN, RE-XLN MTRX IP, TR SCAT FOSS FRAGS IN TRAY, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

50 c

LANSING 3966 md (-1012.0 ss)

LS- OFF WHT TO CRM, HD TO V/BRITT, MD-XLN, TT SUCRO TO RE-XLN MTRX IP, TR DISS PYR, DLL YEL MIN FLO IN 20%, TR V/PR MICRO PP POR IN 2%, NO VIS CUT OR SHOW

c

LS- OFF WHT CRM TO BUFF, HD TO BRITT, F-XLN, IMBD FOSS FRAG IP, SFT WHT CHLK IP, DLL YEL MIN FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

4000

20 U. BG

1 2 3 4 5 c

LANSING "B" 4008 md (-1054.0 ss)

LS- WHT TO OFF WHT, SFT TO HD IP, F-XLN TO SUB-CHLKY, TT SUCRO IP, ABDT SFT WHT CHLK, TR SCAT FOSS FRAGS IN TRAY, TR IMBD SH IP, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW

PPM

c

SH- MD GY TO LT GRN IP, FRM BLKY TO SPLNTY IP

LANSING "C" 4046 md (-1092.0 ss)

50

20 U. BG

LS- OPFF WHT TO LT CRM, HD TO V/BRITT, F-XLN, RE-XLN MTRX IP, IMBD OOLITES IP, SFT WHT CHLK IP, DLL YEL MIN FLO IN 20%, SCAT OOMOLDIC POR IN 5%, NO VIS CUT OR SHOW

c

LS- WHT OFF WHT TO LT TN, HD TO SFT BRITT, F-XLN TO CRYPTO-XLN, TR RE-XLN IP, ABDT SFT WHT CHLK, TR IMBD BRN SH IP, DLL YEL MIN FLO IN 40%, NO VIS POR, NO VIS SHOW

410

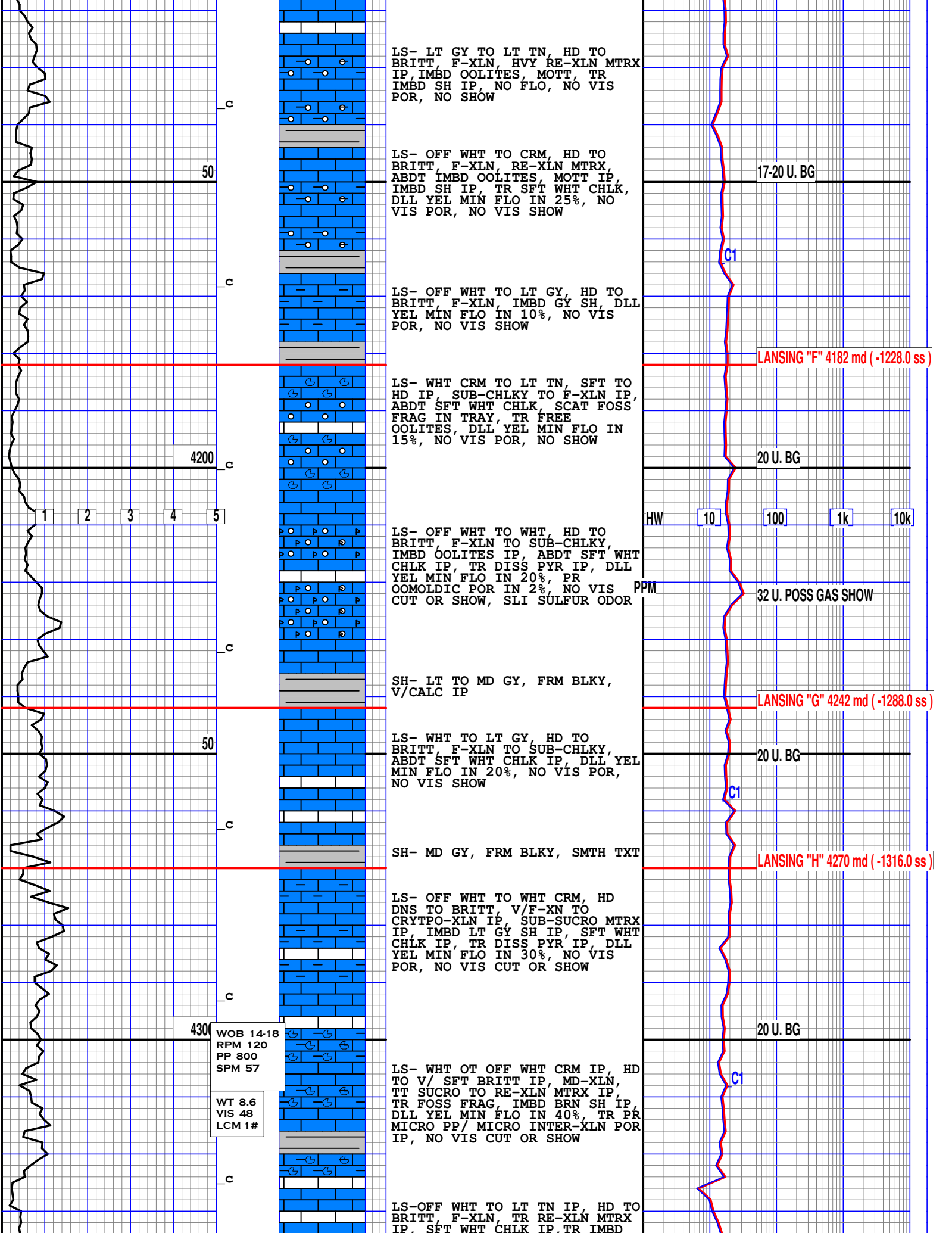
20 U. BG

LANSING "D" 4102 md (-1148.0 ss)

LS- OFF WHT CRM TO BUFF, BRITT TO HD IP, F-XLN TO TT SUCRO, TR V/ RE-XLN, ABDT SFT WHT CHLK, SCAT FOSS FRAG IP, IMBD SH IP, DLL YEL MIN FLO IN 15%, TR PR INTER-XLN POR, NO VIS CUT OR SHOW

WOB 14-18
RPM 120
PP 800
SPM 57

WT 8.9
VIS 41
LCM 6#



LS- LT GY TO LT TN, HD TO BRITT, F-XLN, HVY RE-XLN MTRX IP, IMBD OOLITES, MOTT, TR IMBD SH IP, NO FLO, NO VIS POR, NO SHOW

LS- OFF WHT TO CRM, HD TO BRITT, F-XLN, RE-XLN MTRX, ABDT IMBD OOLITES, MOTT IP, IMBD SH IP, TR SFT WHT CHLK, DLL YEL MIN FLO IN 25%, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO LT GY, HD TO BRITT, F-XLN, IMBD GY SH, DLL YEL MIN FLO IN 10%, NO VIS POR, NO VIS SHOW

LS- WHT CRM TO LT TN, SFT TO HD IP, SUB-CHLKY TO F-XLN IP, ABDT SFT WHT CHLK, SCAT FOSS, FRAG IN TRAY, TR FREE OOLITES, DLL YEL MIN FLO IN 15%, NO VIS POR, NO SHOW

LS- OFF WHT TO WHT, HD TO BRITT, F-XLN TO SUB-CHLKY, IMBD OOLITES IP, ABDT SFT WHT CHLK IP, TR DISS PYR IP, DLL YEL MIN FLO IN 20%, PR OOMOLDIC POR IN 2%, NO VIS CUT OR SHOW, SLI SULFUR ODOR

SH- LT TO MD GY, FRM BLKY, V/CALC IP

LS- WHT TO LT GY, HD TO BRITT, F-XLN TO SUB-CHLKY, ABDT SFT WHT CHLK IP, DLL YEL MIN FLO IN 20%, NO VIS POR, NO VIS SHOW

SH- MD GY, FRM BLKY, SMTH TXT

LS- OFF WHT TO WHT CRM, HD DNS TO BRITT, V/F-XN TO CRYPTO-XLN IP, SUB-SUCRO MTRX IP, IMBD LT GY SH IP, SFT WHT CHLK IP, TR DISS PYR IP, DLL YEL MIN FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

LS- WHT OT OFF WHT CRM IP, HD TO V/ SFT BRITT IP, MD-XLN, TT SUCRO TO RE-XLN MTRX IP, TR FOSS FRAG, IMBD BRN SH IP, DLL YEL MIN FLO IN 40%, TR PR MICRO PP/ MICRO INTER-XLN POR IP, NO VIS CUT OR SHOW

LS-OFF WHT TO LT TN IP, HD TO BRITT, F-XLN, TR RE-XLN MTRX IP, SFT WHT CHLK IP, TR IMBD GY SH IP, TR FOSS FRAG IN

c
50
c
c
4200
c
1 2 3 4 5
c
c
50
c
c
4300
c

WOB 14-18
RPM 120
PP 800
SPM 57

WT 8.6
VIS 48
LCM 1#

17-20 U. BG

LANSING "F" 4182 md (-1288.0 ss)

20 U. BG

HW 10 100 1k 10k

PPM 32 U. POSS GAS SHOW

LANSING "G" 4242 md (-1288.0 ss)

20 U. BG

LANSING "H" 4270 md (-1316.0 ss)

20 U. BG

C1

C1

C1

TRAY, DLL YEL MIN FLO IN 20%,
NO VIS POR, NO VIS CUT OR
SHOW

50

12-20 U. BG

LS- WHT TO OFF WHT, SFT
BRITT, F-XLN TO SUB-CHLKY,
ABDT SFT WHT CHLK IP, DLL YEL
MIN FLO IN 15%, NO VIS POR,
NO VIS CUT OR SHOW

C1

LS- CRM TO LT TN, HD TO
BRITT, F-XLN TO SLI SUCRO IP,
SCAT RE-XLN MTRX IP, TR IMBD
OOLITES, DLL YEL MIN FLO IN
20%, PR OOMOLDIC POR IN 1%,
NO VIS CUT OR SHOW

35 U. SH GAS
SAMPLE LAG OFF

KCA 4392 md (-1438.0 ss)

4400

SH- LT TO MD GY BLK IP, FRM
BLKY, SFT CARB IP, TR DISS
PYR GRNS

LS- OFF WHT TO LT CRM, HD TO
SFT BRITT, F-XLN TO
SUB-CHLKY, SCAT IMBD RE-XLN
FOSS FRAGS, ABDT SFT WHT
CHLK, DLL YEL MIN FLO IN 20%,
TR PR INTER-XLN POR, NO VIS
CUT OR SHOW

HW 10 100 1k 10k

PPM

LS- CRM TO LT TN, HD TO BRITT
IP, F-XLN, TR IMBD SH IP, SFT
WHT CHLK IP, NO FLO, NO VIS
POR, NO VIS SHOW

20 U. BG

C1

50

KCB 4452 md (-1498.0 ss)

LS- WHT TO LT GY CRM IP, HD
TO V/ BRITT, F-XLN, TR RE-XLN
MTRX, MOTT IP, ARG TO SHLY
IP, SFT WHT CHLK IP, DLL YEL
MIN FLO IN 20%, NO VIS POR,
NO VIS CUT OR SHOW

NO SAMPLE CAUGHT BY RIG

C1

KCC 4492 md (-1538.0 ss)

4500

WOB 14-18
RPM 110
PP 900
SPM 57

WT 9.0
VIS 45
LCM 4#

LS- OFF WHT TO CRM LT GY, HD
TO BRITT, F-XLN TO TT SUCRO
IP, ABDT IMBD OOL THRU, IMBD
SH IP, DLL YEL MIN FLO IN
25% FR TO TR GD OOMOLDI POR
IN 5%, NO VIS CUT OR SHOW

39 U. POSSIBLE GAS SHOW

BKC 4522 md (-1568.0 ss)

SH- LT GY TO BLK, FRM
BLKY, SLI CALC IP, SMTH TO SLI
SLTY TXT

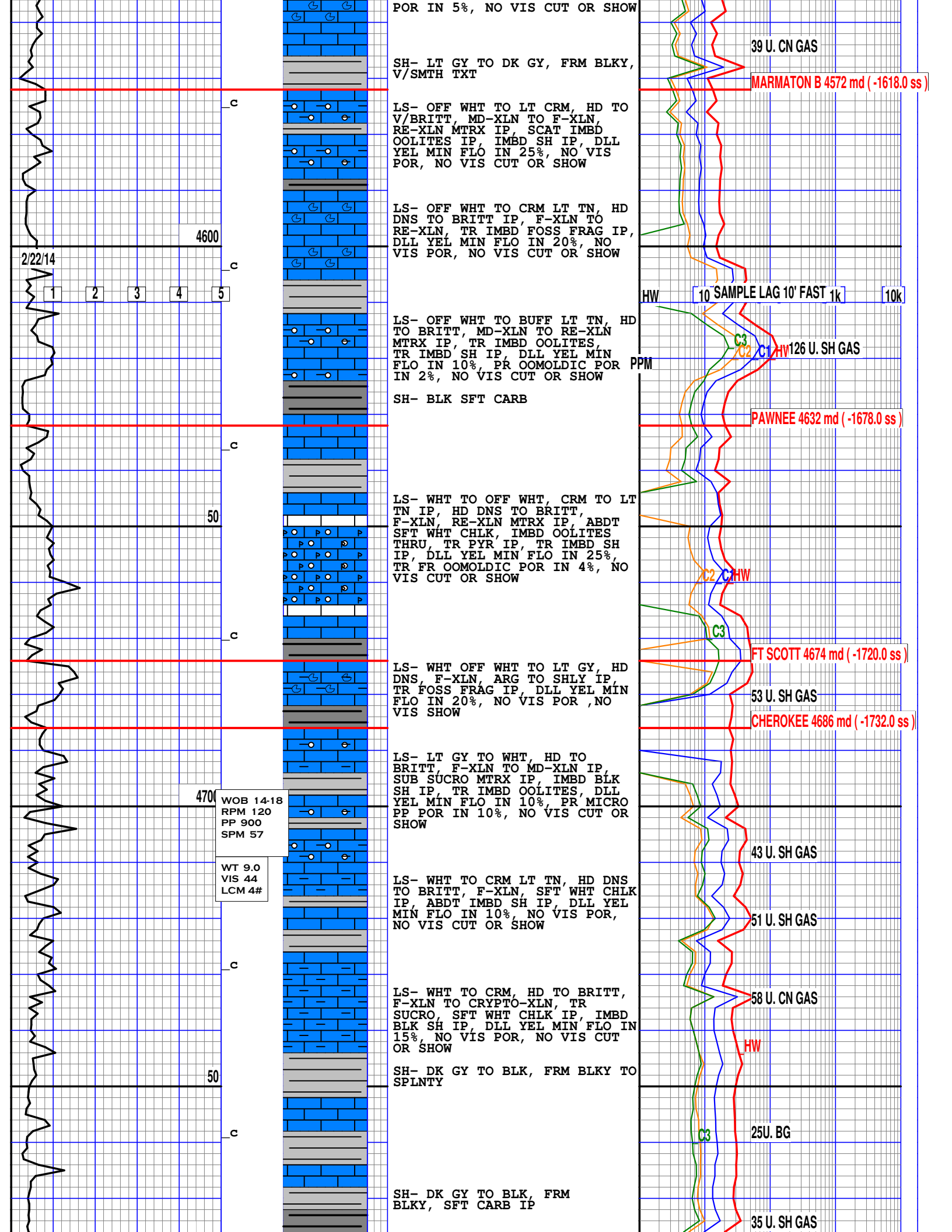
C2 C1 HW
C3

MARMATON 4546 md (-1592.0 ss)

50

20 U. BG

LS- LT CRM TO OFF WHT, HD TO
BRITT, F-XLN TO V/ TT SUCRO
IP, RE-XLN MTRX IP, IMBD FOSS
FRAG IP, DLL YEL MIN FLO IN
35%, PR TO TR FR INTER-XLN



POR IN 5%, NO VIS CUT OR SHOW

SH- LT GY TO DK GY, FRM BLKY, V/SMTH TXT

LS- OFF WHT TO LT CRM, HD TO V/BRITT, MD-XLN TO F-XLN, RE-XLN MTRX IP, SCAT IMBD OOLITES IP, IMBD SH IP, DLL YEL MIN FLO IN 25%, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO CRM LT TN, HD DNS TO BRITT IP, F-XLN TO RE-XLN, TR IMBD FOSS FRAG IP, DLL YEL MIN FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO BUFF LT TN, HD TO BRITT, MD-XLN TO RE-XLN MTRX IP, TR IMBD OOLITES, TR IMBD SH IP, DLL YEL MIN FLO IN 10%, PR OOMOLDIC POR IN 2%, NO VIS CUT OR SHOW

SH- BLK SFT CARB

LS- WHT TO OFF WHT, CRM TO LT TN IP, HD DNS TO BRITT, F-XLN, RE-XLN MTRX IP, ABDT SFT WHT CHLK, IMBD OOLITES THRU, TR PYR IP, TR IMBD SH IP, DLL YEL MIN FLO IN 25%, TR FR OOMOLDIC POR IN 4%, NO VIS CUT OR SHOW

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

LS- LT GY TO WHT, HD TO BRITT, F-XLN TO MD-XLN IP, SUB SUCRO MTRX IP, IMBD BLK SH IP, TR IMBD OOLITES, DLL YEL MIN FLO IN 10%, PR MICRO PP POR IN 10%, NO VIS CUT OR SHOW

LS- WHT TO CRM LT TN, HD DNS TO BRITT, F-XLN, SFT WHT CHLK IP, ABDT IMBD SH IP, DLL YEL MIN FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

LS- WHT TO CRM, HD TO BRITT, F-XLN TO CRYPTO-XLN, TR SUCRO, SFT WHT CHLK IP, IMBD BLK SH IP, DLL YEL MIN FLO IN 15%, NO VIS POR, NO VIS CUT OR SHOW

SH- DK GY TO BLK, FRM BLKY TO SPLNTY

SH- DK GY TO BLK, FRM BLKY, SFT CARB IP

39 U. CN GAS

MARMATON B 4572 md (-1618.0 ss)

126 U. SH GAS

PAWNEE 4632 md (-1678.0 ss)

FT SCOTT 4674 md (-1720.0 ss)

53 U. SH GAS

CHEROKEE 4686 md (-1732.0 ss)

43 U. SH GAS

51 U. SH GAS

58 U. CN GAS

25U. BG

35 U. SH GAS

2/22/14

4600

50

4700

50

WOB 14-18
RPM 120
PP 900
SPM 57

WT 9.0
VIS 44
LCM 4#

1 2 3 4 5

10 SAMPLE LAG 10' FAST 1k 10k

PPM

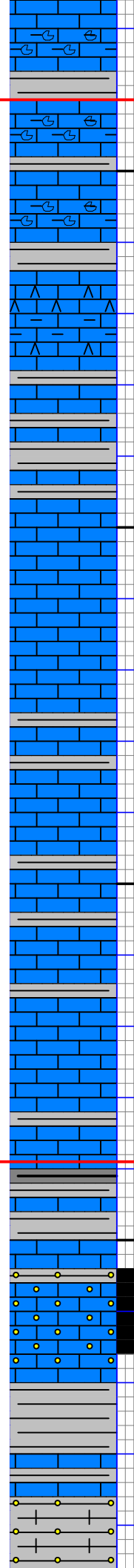
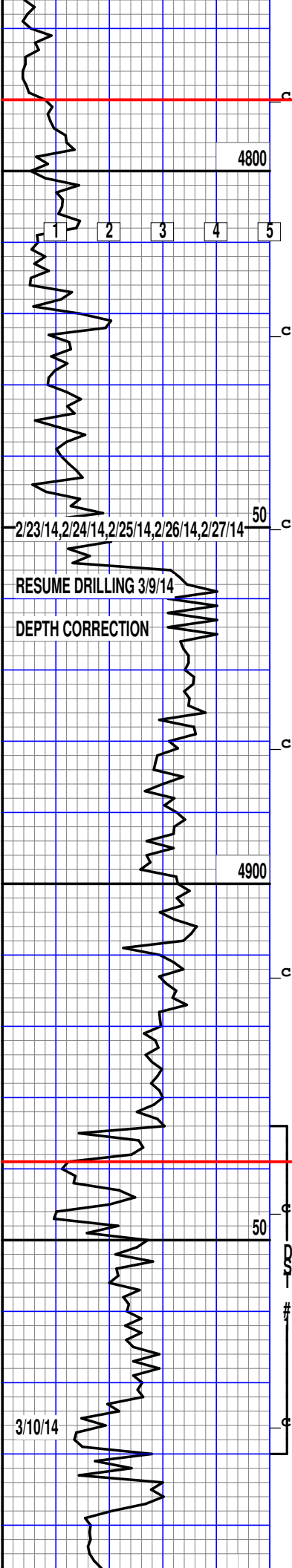
C3 C2 C1 HW

C2 C1 HW

C3

HW

C3



LS- LT TO MD TN GY IP, HD TO BRITT, V/F-XLN TO CRYPTO-XLN, TR FOSS FRAG, V/SHLY IP, TR SFT WHT CHLK, SPOTTED DLL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO CRM, HD DNS TO BRITT IP, F-XLN, RE-XLN MTRX IP, ABDT' BLK SH, TR FOSS FRAG, DLL YEL MIN FLO IN 15%, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN, HD DNS, F-XLN, IMBD SH IP, TR LT GY CHRT IN TRAY, NO FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- LT GY TO TN, HD DNS TO BRITT, CRYPTO-XLN TO F-XLN TR SUCRO, ABDT' IMBD BLK SH, TR FOSS FRAG IP, NO FLO, V/PR INTER-FOSS POR IN 1%, NO VIS CUT OR SHOW

LS- LT GY TO LT TN, HD DNS TO BRITT IP, F-MD XLN, TR V/RE-XLN MTRX IP, ARG TO SHLY IP, NO FLO, NO VIS POR, NO SHOW

LS- OFF WHT LT GY TO LT TN, HD DNS TO BRITT, F-XLN, RE-XLN MTRX IP, ARG TO SHLY IP, TR FOSS FRAG, SFT WHT CHLK IP, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

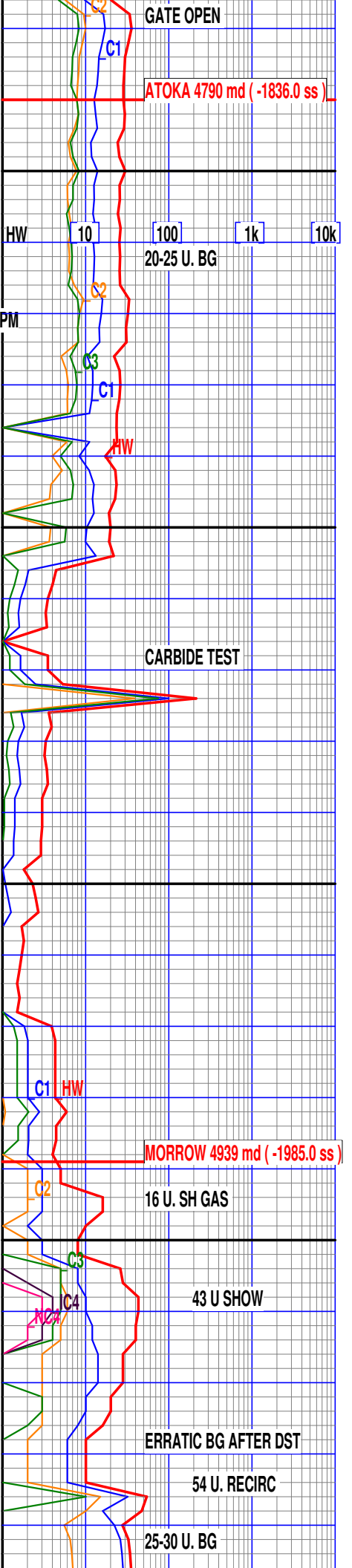
LS- LT GY TO LT TN, HD DNS TO BRITT IP, F-MD XLN, TR TT-SUCRO TO RE-XLN MTRX IP, TR FOSS FRAG, SFT WHT CHLK IP, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW

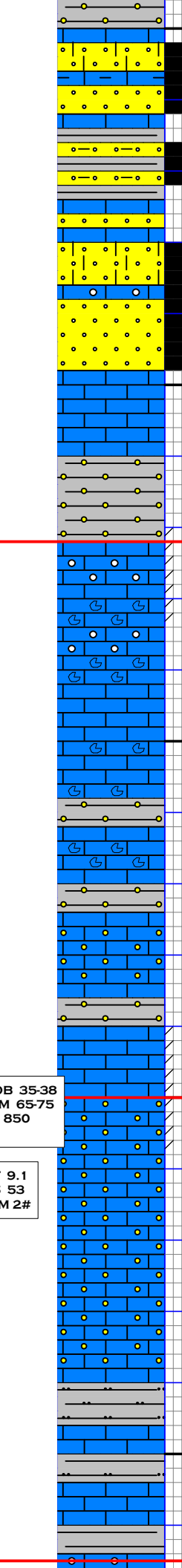
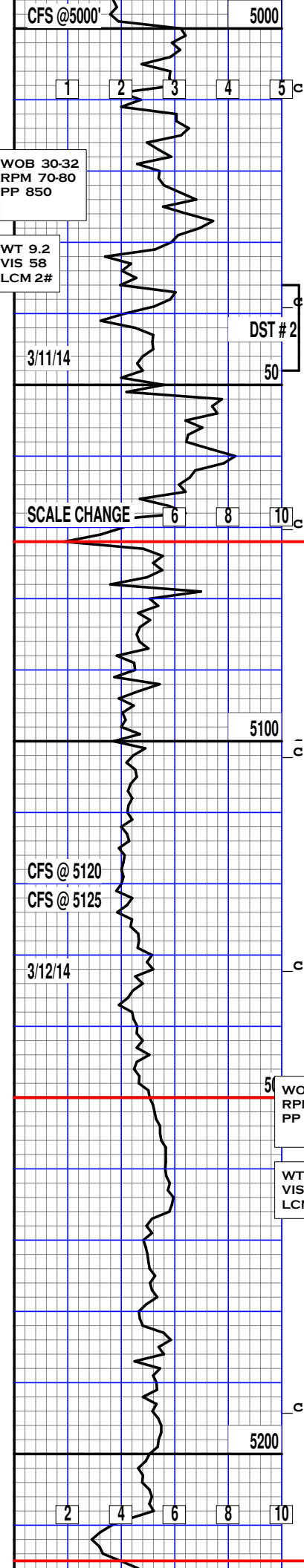
SH- BLK TO LT GRN, FRM BLKY TO SLI SPLNTY IP, ERTHY TXT

LS- LT GY TO LT TN, HD DNS TR BRITT, F-MD XLN, V/ RE-XLN MTRX IP, SCAT FOSS FRAG, TR GLAUC, DLL YEL MIN FLO IN 10%, NO VIS CUT OR SHOW

4954'-4965' LS- OFF WHT TO LT TN (OIL STN IN 40%), HD TO BRITT, MD-XLN TO SUCRO, V/RE-XLN MTRX IP, IMBD AND SCAT FREE MD-CRS GRN ORTZ & CALC XLS THRU, SCAT GLAUC SPTTD GLD FLO IN 25%, FR-GD INTER-XLN POR IN 10%, SCAT FR MICRO PP POR IN 10% FR-GD FLSSH CUT, FR-GD SLW STRM IN

SH- DK GY TO BLK GRN IP, FRM TO SFT, IMBD F-GRN ORTZ IP, SLI CALC IP, SMTH TO SLTY TXT





SS- FRSTY TO LT TN WHT IP, ORTZ GRNS, HD TT TO SLI FRI IP, FN-MD GRNS, S-ANG TO S-RND, WLL SRT, ABLT CALC CMNT IP, SCAT IMBD GLAUC, V/CALC TO LMY IP, IMBD SH IP, SPTTD DLL GLD FLO IN 30%, PR INTER-GRN POR THRU, GD FLSH CUT, GD SLW STRM IN 50%, LT TN LCH ON DISH, LT OIL ODOR

SS-FRSTY TO LT TN (OIL STN THRU) ORTZ GRNS, HD TT TO FRI IP, FN-MD GRN, S-ANG TO S-RND, WLL - TR FR SRT, SIL CMNT SLI TR CALC CMNT, SLI SHLY TO CHLKY IP, SPTTD GLD FLO IN 70%, PR-FR INTER-GRN POR THRU, GD FLSH CUT, GD-EXCEL SLW STRM IN 20%, LT OIL ODOR

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

SH- LT TO MD GY, FRM BLKY, FOSS IP, TR IMBD ORTZ, SMTH TXT

LS- OFF WHT TO LT GY (TR SPTTD LT TN OIL STN), HD DNS, F-XLN TO MD-XLN V/RE-XLN IP, SCAT IMBD FOSS FRAG, SCAT IMBD OOL, TR IMBD F-GRN ORTZ IP, SLI TR WHT TO LT GY CHRT IP, DLL YEL FLO IN 10%, TR MICRO-PP POR, PR FLSH CUT, FR SLW STRM IN 1%,

LS- OFF WHT TO LT GY, HD DNS, F-XLN TO TR MD-XLN, TR RE-XLN, SCAT FOSS FRAG IP, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW

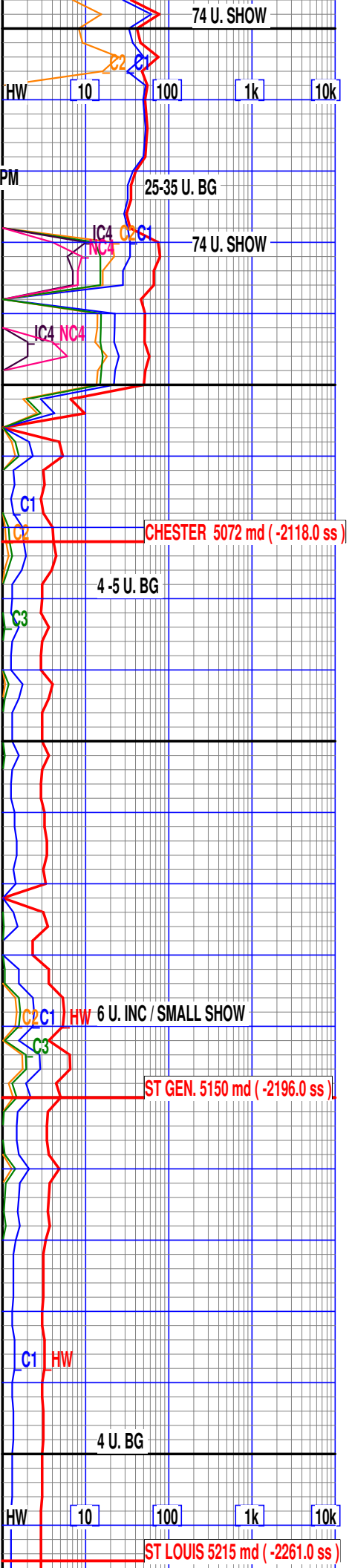
LS- LT GY TO CRM, HD DNS, F-XLN TO SLI SUCRO, RE-XLN IP, SCAT IMBD F-GRN ORTZ IP, IMBD GLAUC IP, DLL YEL MIN FLO IN 10%, PR INTER-XLN POR IN 5%, NO VIS CUT OR SHOW

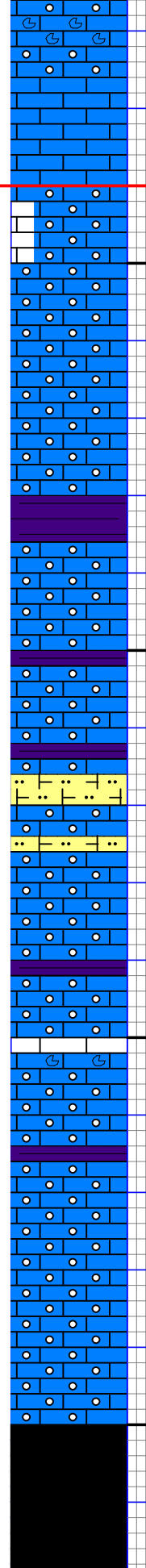
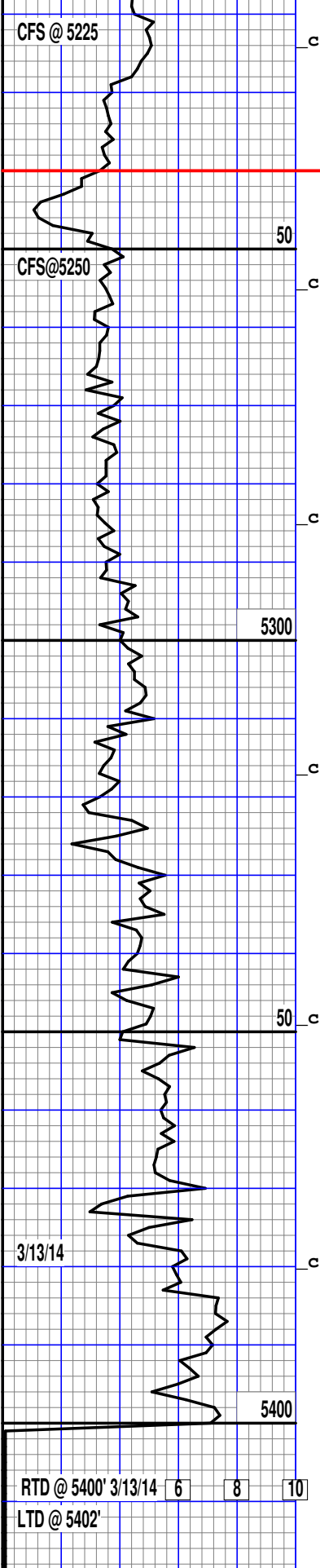
LS- WHT TO OFF WHT, HD DNS, F-XLN TO TT-SUCRO, ABLT IMBD F-GRN ORTZ, IMBD GLAUC IP, TR SFT WHT CHLK, DLL YEL MIN FLO IN 40%, PR INTER-XLN POR IN 15%, TR PR FLSH CUT, NO SLW STRM

LS- WHT TO OFF WHT, HD DNS, F-XLN TO TT SUCRO, ABLT IMBD F-GRN ORTZ, TR SFT WHT CHLK, TR IMBD SH IP, DLL YEL MIN FLO IN 30%, NO VIS POR, NO VIS SHOW

SH- MD GY TO BLK, FRM BLKY TO SLI SPLNTY, IMBD F-GRN SLT IP

LS- WHT OFF WHT TO LT TN (TR





OIL STN), HD DNS, F-XLN, TR RE-XLN MTRX IP, ABDT IMBD OOLITES, ABDT IMBD FOSS FRAG, DLL YEL MIN FLO IN 30%, TR PR FLSH CUT, NO SLW STRM, NO OIL ODOR

LS- WHT TO OFF WHT, BRITT TO TR HD, F-XLN TO SUB-CHLKY, ABDT IMBD AND FREE OOL, ABDT SFT WHT CHLK IP, DLL YEL MIN FLO IN 70%, SCAT GD INTER-OOL POR THRU, TR FR OOMOLDIC POR IN 2%, NO VIS CUT OR SHOW

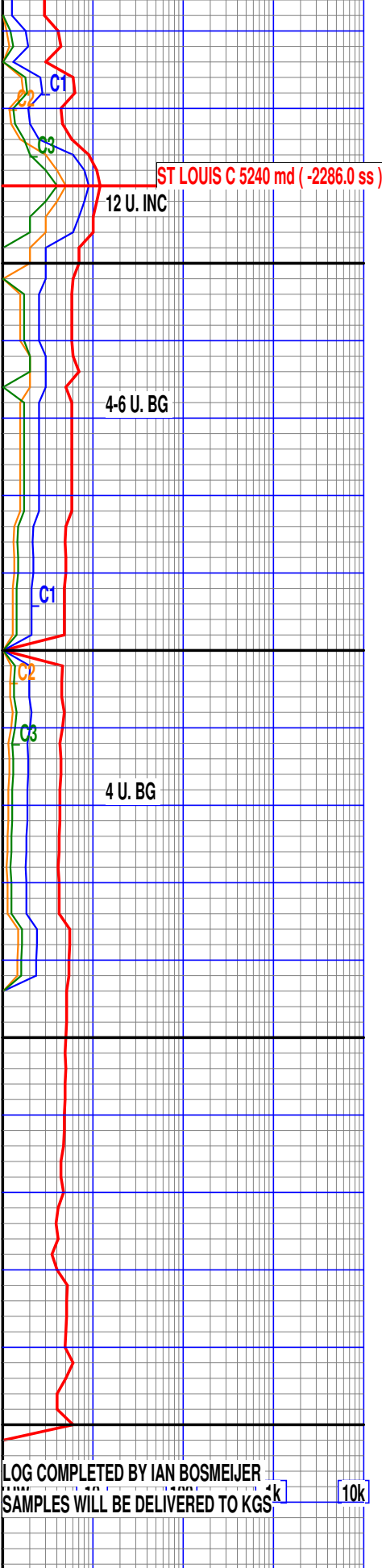
DOLO- GRY, HD TO V/BRITT, F-XLN, SCAT IMBD DOLO XLS, V/ CALC IP, DLL YEL MIN FLO THRU, NO VIS POR, NO SHOW

LS- OFF WHT TO CRM, HD TO BRITT, F-XLN IP, TT SUCRO TO SUB-CHLKY IP, ABDT IMBD MICRO-OOL, SLI DOLO IP, DLL YEL MIN FLO IN 60%, NO VIS POR, NO SHOW, V/F SAMPLES

SLTSTN- GY, FRM TO BRITT, V/CALC, IMBD ANG ORTZ GRNS, IMBD ANG LS GRNS, TR DOLO GRNS, NO FLO, NO VIS POR, NO SHOW

LS- OFF WHT TO CRM, TN IP, HD DNS, F-XLN TO SLI SUCRO, SUB-CHLKY IP, ABDT IMBD OOL IP, TR FOSS FRAG, SLI DOLO IP, DLL YEL MIN FLO IN 50%, NO VIS POR, NO SHOW

LS- CRM TO LT TN, HD DNS, F-XLN TO CRYPTO-XLN, TR RE-XLN IP, SCAT IMBD OOLITES IP, TR IMBD SH, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW



RTD @ 5400' 3/13/14 6 8 10
LTD @ 5402'

RTD @ 5400 AT @3:00 AM 3/13/14
CTCH, SHRT TRIP, CTCH

LOG COMPLETED BY IAN BOSMEIJER
SAMPLES WILL BE DELIVERED TO KGS

PPM