



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1158864
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: _____



1158864

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
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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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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	BOB ET AL 1-32
Doc ID	1158864

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 18, 2013

CHRISTOPHER MITCHELL
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-009-25835-00-00
BOB ET AL 1-32
NE/4 Sec.32-16S-14W
Barton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
CHRISTOPHER MITCHELL



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 6/3/2013
 Invoice # 6862

P.O.#:

Due Date: 7/3/2013

Division: Russell

Invoice

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

RECEIVED

JUN 07 2013

SAMUEL GARY JR. & ASSOCIATES, INC.

Contact:

Samuel Gary Jr & Associates Inc
 Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

Reference:

BOB ET AL 1-32

Description of Work:

LONG SURFACE JOB

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	No				
Common-Class A	325	\$ 4,554.97	Yes				
8 5/8" Basket	3	\$ 1,059.53	Yes				
Bulk Truck Matl-Material Service Charge	343	\$ 766.71	No				
Calcium Chloride	12	\$ 639.20	Yes				
Pump Truck Mileage-Job to Nearest Camp	21	\$ 234.24	No				
8 5/8" Centralizer	3	\$ 214.59	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	21	\$ 137.07	No				
8 5/8" Top Rubber Plug	1	\$ 118.47	Yes				
Premium Gel (Bentonite)	6	\$ 109.17	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 100.59	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 8,955.08
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,343.26)

SubTotal for Taxable Items:	\$ 5,777.05
SubTotal for Non-Taxable Items:	\$ 1,834.77
Total:	\$ 7,611.82
Tax:	\$ 421.72

7.30% Barton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 8,033.54
Applied Payments:
Balance Due: \$ 8,033.54

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 6862

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

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

Date	5-30-13	Sec.	32	Twp.	16	Range	14	County	Barton	State	KS	On Location	Finish	12:45 PM
Location								281 & Galatia Rd, 2W, 14S, W n 2						

Lease	Bob ET Al	Well No.	1-32	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Contractor	Val #6				Charge To	Samuel Gary and Associates
Type Job	Surface	T.D.	863	Street		
Hole Size	12 1/4	Depth	863	City	State	
Csg.	8 5/8	Depth		The above was done to satisfaction and supervision of owner agent or contractor.		
Tbg. Size		Depth		Cement Amount Ordered 325 sx Com 3% cc 2% gel		
Tool		Depth				
Cement Left in Csg.	42.51	Shoe Joint	42.51			
Meas Line		Displace	52661			

EQUIPMENT

Pumptrk	15	No.	Cementor	
			Helper	Nick
Bulktrk	4	No.	Driver	Doug
Bulktrk	PU	No.	Driver	Travis

Common 325

Poz. Mix

Gel. 6

Calcium 12

Hulls

Salt

Flowseal

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling 343

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer 3

Baskets 3

AFU Inserts

Float Shoe

Latch Down

1 Baffle plate

1 Rubber plug

Pumptrk Charge Long Surface

Mileage 21

Tax

Discount

Total Charge

X Signature





QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone:785-324-1041 fax:785-483-1087
 Email: cementing@ruraltel.net

Date: 6/7/2013
 Invoice # 6864

P.O.#:
 Due Date: 7/7/2013
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

RECEIVED
 JUN 18 2013
 SAMUEL GARY JR.
 & ASSOCIATES, INC.

DRLG COMP W/O LOE GG

Account	8200.145
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Reference:
 BOB ET AL 1-32

Description of Work:
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	Yes				
Common-Class A	147	\$ 2,060.25	Yes				
Bulk Truck Matl-Material Service Charge	254	\$ 567.76	Yes				
POZ Mix-Standard	98	\$ 503.84	Yes				
Pump Truck Mileage-Job to Nearest Camp	21	\$ 234.24	Yes				
Premium Gel (Bentonite)	9	\$ 163.76	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	21	\$ 137.07	Yes				
Dry Hole Plug	1	\$ 62.59	Yes				

Invoice Terms:

Net 30

SubTotal:	\$	4,750.04
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(712.51)
<hr/>		
SubTotal for Taxable Items:	\$	4,037.54
SubTotal for Non-Taxable Items:	\$	-
<hr/>		
Total:	\$	4,037.53
Tax:	\$	294.74
<hr/>		
Amount Due:	\$	4,332.27
Applied Payments:		
Balance Due:	\$	4,332.27

7.30% Barton County Sales Tax

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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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. 6864

Date 6-5-13	Sec. 32	Twp. 16	Range 14	County Barton	State KS	On Location	Finish 9:30 PM
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Location 281 and Galatia RD, 2V, 1 1/4 S Wn 2

Lease Bob ETAL	Well No. 1-32	Owner
Contractor Val #6		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		Charge To Sam Gary J & Associates
Hole Size 7 7/8	T.D.	Street
Csg.	Depth	City State
Tbg. Size	Depth	
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered 245 sx 60/40 4% gel 1/4 flow

Meas Line	Displace	
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EQUIPMENT			Common 147
Pumptrk 16	No. Cementer/Helper Lonnie W.		Poz. Mix 98
Bulktrk 14	No. Driver Lonnie M.		Gel. 9
Bulktrk PU	No. Driver Travis		Calcium

JOB SERVICES & REMARKS

Remarks:	Salt
Rat Hole	Flowseal 61#
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
1 50 sx @ 3471	Handling 254
2 40 sx @ 913	Mileage

FLOAT EQUIPMENT

4 10 sx @ 40 with wood plug	Guide Shoe
5 30 sx Rat	Centralizer
6 15 sx Mouse	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

	1 wood plug
	Pumptrk Charge plug 21
	Mileage 63

	Tax
	Discount
	Total Charge

X Signature Randy A. Mark...



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

32 16s 14w Barton

1515 Wynkoop St. Ste 700
Denver, CO 80202

Bob et al 1-32

Job Ticket: 53809

DST#: 1

ATTN: Chris Mitchell

Test Start: 2013.06.02 @ 23:50:00

GENERAL INFORMATION:

Formation: **LKC " D "**

Deviated: No Whipstock: 2011.00 ft (KB)

Time Tool Opened: 01:28:30

Time Test Ended: 06:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 41

Interval: 3240.00 ft (KB) To 3296.00 ft (KB) (TVD)

Reference Elevations: 2011.00 ft (KB)

Total Depth: 3296.00 ft (KB) (TVD)

2001.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8322 Outside

Press @ Run Depth: 20.61 psig @ 3260.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.02

End Date:

2013.06.03

Last Calib.:

2013.06.03

Start Time: 23:50:01

End Time:

06:24:30

Time On Btm:

2013.06.03 @ 01:28:20

Time Off Btm:

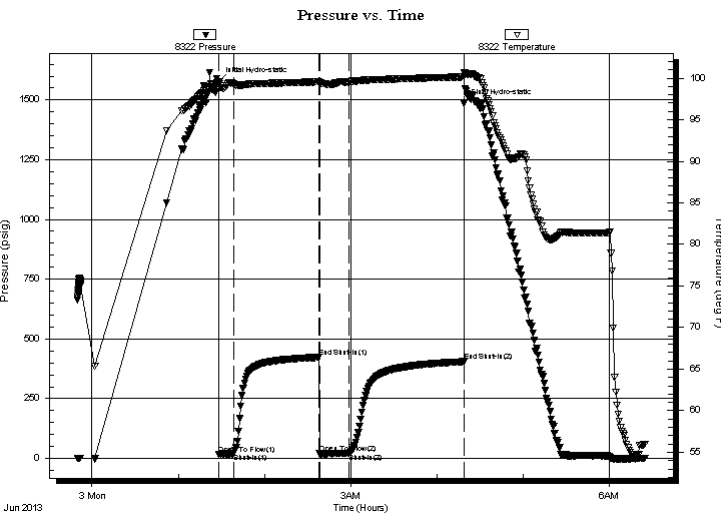
2013.06.03 @ 04:18:40

TEST COMMENT: 10-IFP-Good Surge on Open Weak Surface Blow

60-ISIP- No Blow

20-FFP- No Blow

80-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1575.18	99.38	Initial Hydro-static
1	17.92	98.76	Open To Flow (1)
10	20.82	99.31	Shut-In(1)
70	422.75	99.56	End Shut-In(1)
70	19.20	99.42	Open To Flow (2)
91	20.61	99.56	Shut-In(2)
171	404.99	100.15	End Shut-In(2)
171	1485.29	100.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
7.00	Mud 100%	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. and Associates, Inc.

32 16s 14w Barton

1515 Wynkoop St. Ste 700
Denver, CO 80202

Bob et al 1-32

Job Ticket: 53809

DST#: 1

ATTN: Chris Mitchell

Test Start: 2013.06.02 @ 23:50:00

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.55 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8400.00 ppm			
Filter Cake: 0.00 inches			

Recovery Information

Recovery Table

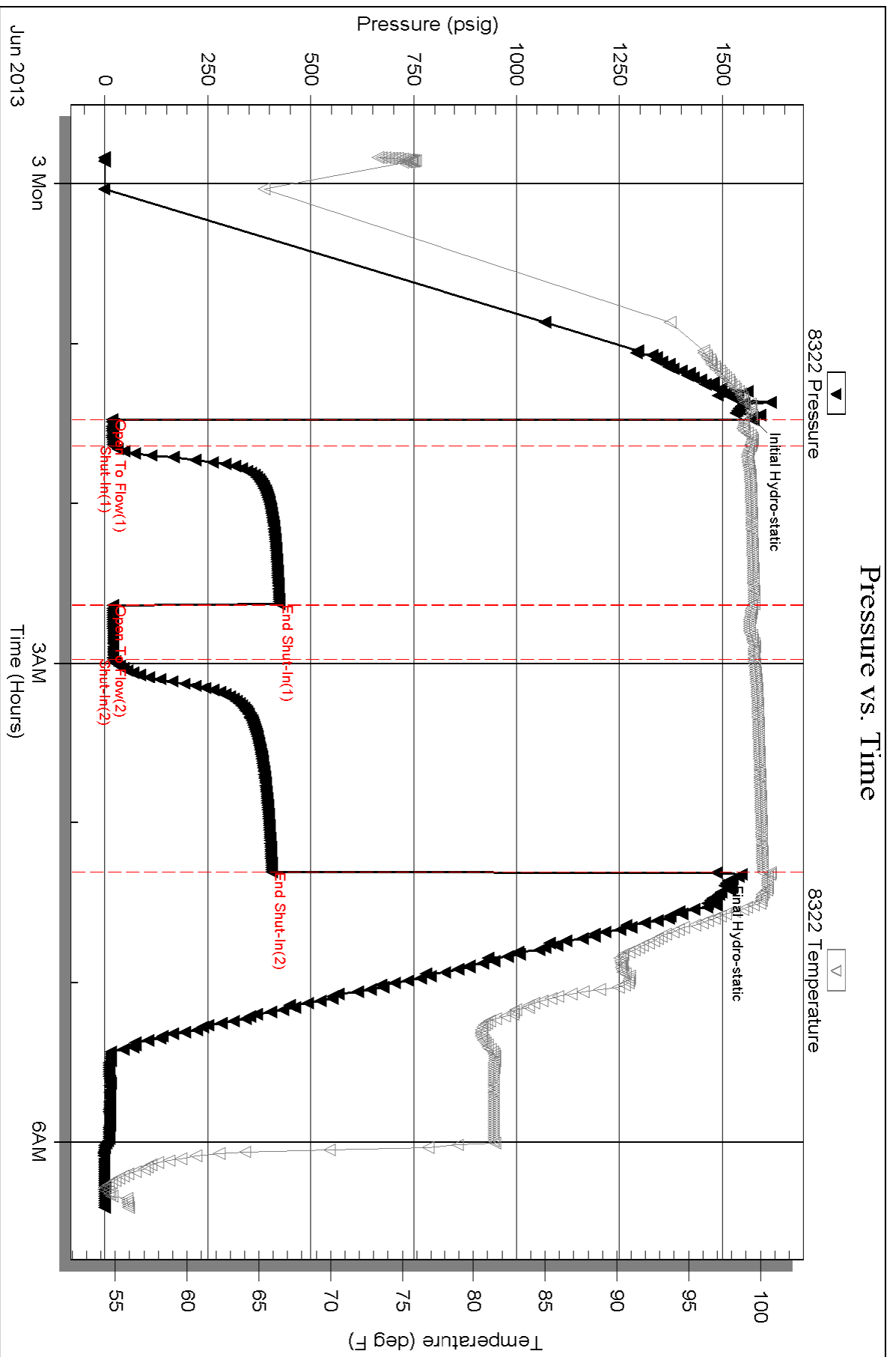
Length ft	Description	Volume bbl
7.00	Mud 100%	0.098

Total Length: 7.00 ft Total Volume: 0.098 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: SAMPLER 100ml Mud 100% - 165 psi



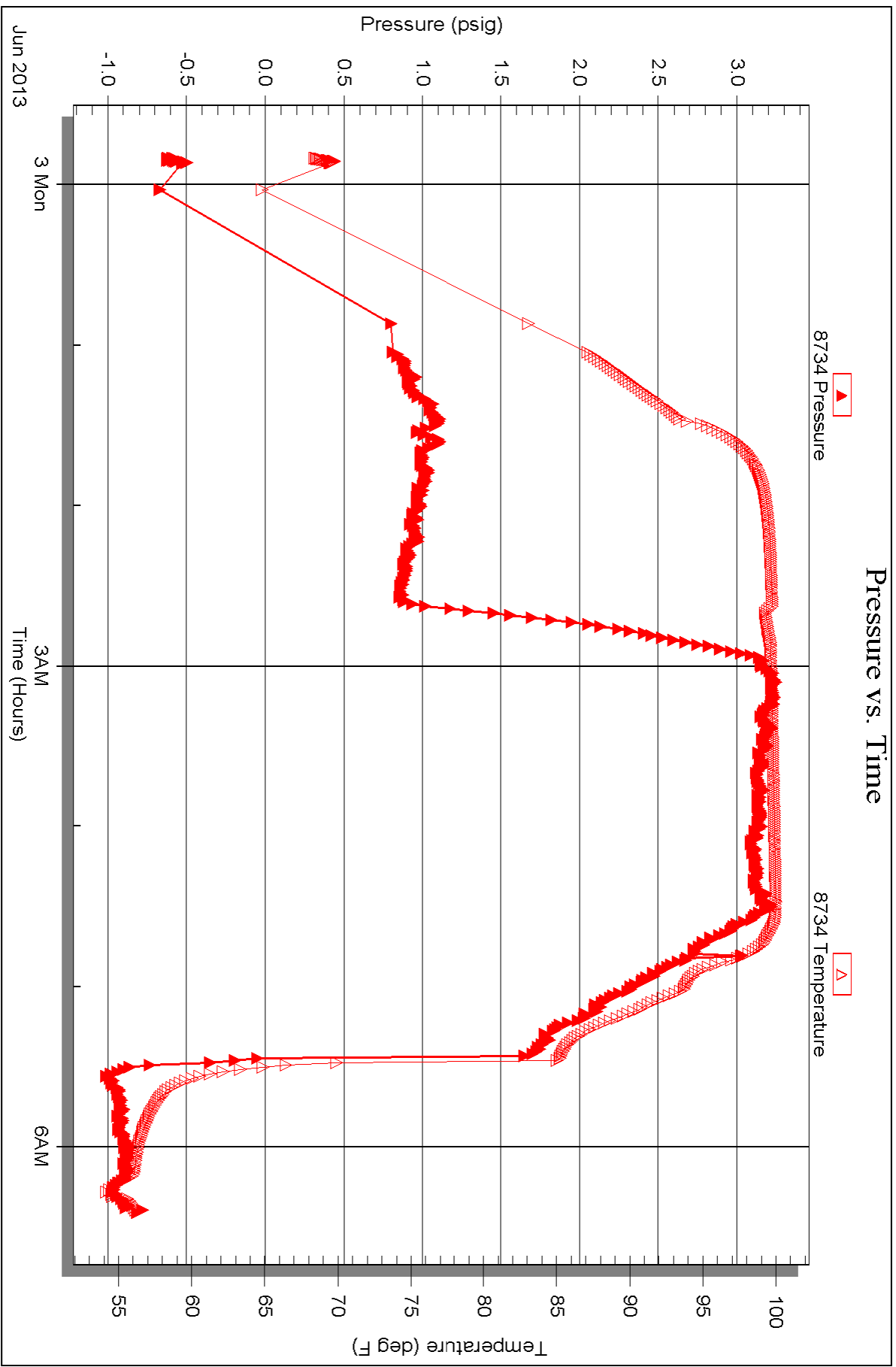
Serial #: 8734

Fluid

Samuel Gary Jr. and Associates, Inc.

Bob et al 1-32

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

32 16s 14w Barton

1515 Wynkoop St. Ste 700
Denver, CO 80202

Bob et al 1-32

ATTN: Chris Mitchell

Job Ticket: 53810

DST#: 2

Test Start: 2013.06.04 @ 16:00:00

GENERAL INFORMATION:

Formation: **LKC-J**

Deviated: No Whipstock: 2011.00 ft (KB)

Time Tool Opened: 17:39:40

Time Test Ended: 23:47:09

Test Type: Conventional Straddle (Initial)

Tester: RANDY WILLIAMS

Unit No: 41

Interval: 3374.00 ft (KB) To 3400.00 ft (KB) (TVD)

Reference Elevations: 2011.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

2001.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 727.53 psig @ 3375.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.04

End Date:

2013.06.04

Last Calib.: 2013.06.05

Start Time: 16:00:01

End Time:

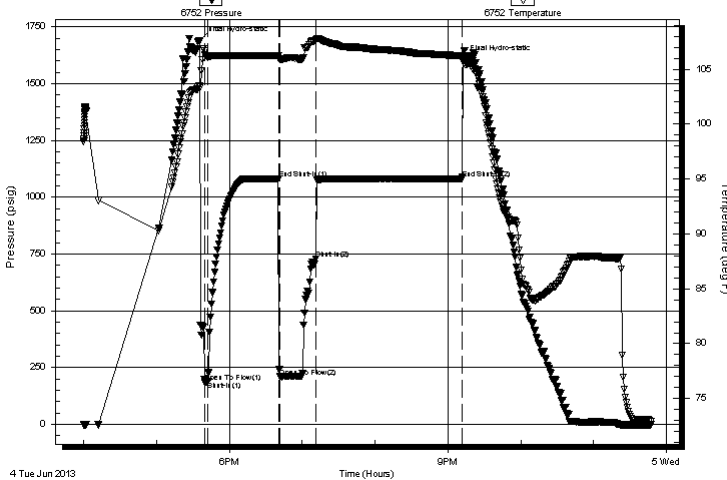
23:47:10

Time On Btm: 2013.06.04 @ 17:35:40

Time Off Btm: 2013.06.04 @ 21:12:20

TEST COMMENT: IF-5-, BUILT BOTTOM BUCKET 30 SEC'S
ISN-60- NBB
FF-30- WBB- BUILT BOTTOM BUCKET 20 MIN'S
FSN-120- NBB

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.04	103.51	Initial Hydro-static
4	186.13	106.33	Open To Flow (1)
7	190.38	106.09	Shut-In(1)
65	1081.90	106.21	End Shut-In(1)
67	208.81	105.92	Open To Flow (2)
96	727.53	107.66	Shut-In(2)
216	1082.24	106.19	End Shut-In(2)
217	1606.33	106.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
512.00	MUD 100%	7.18
640.00	MUDDY WATER 30% M, 70% W	8.98

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. and Associates, Inc.

32 16s 14w Barton

1515 Wynkoop St. Ste 700
Denver, CO 80202

Bob et al 1-32

Job Ticket: 53810

DST#: 2

ATTN: Chris Mitchell

Test Start: 2013.06.04 @ 16:00:00

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:

37000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.75 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9300.00 ppm

Filter Cake: 0.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
512.00	MUD 100%	7.182
640.00	MUDDY WATER 30% M, 70% W	8.978

Total Length: 1152.00 ft Total Volume: 16.160 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

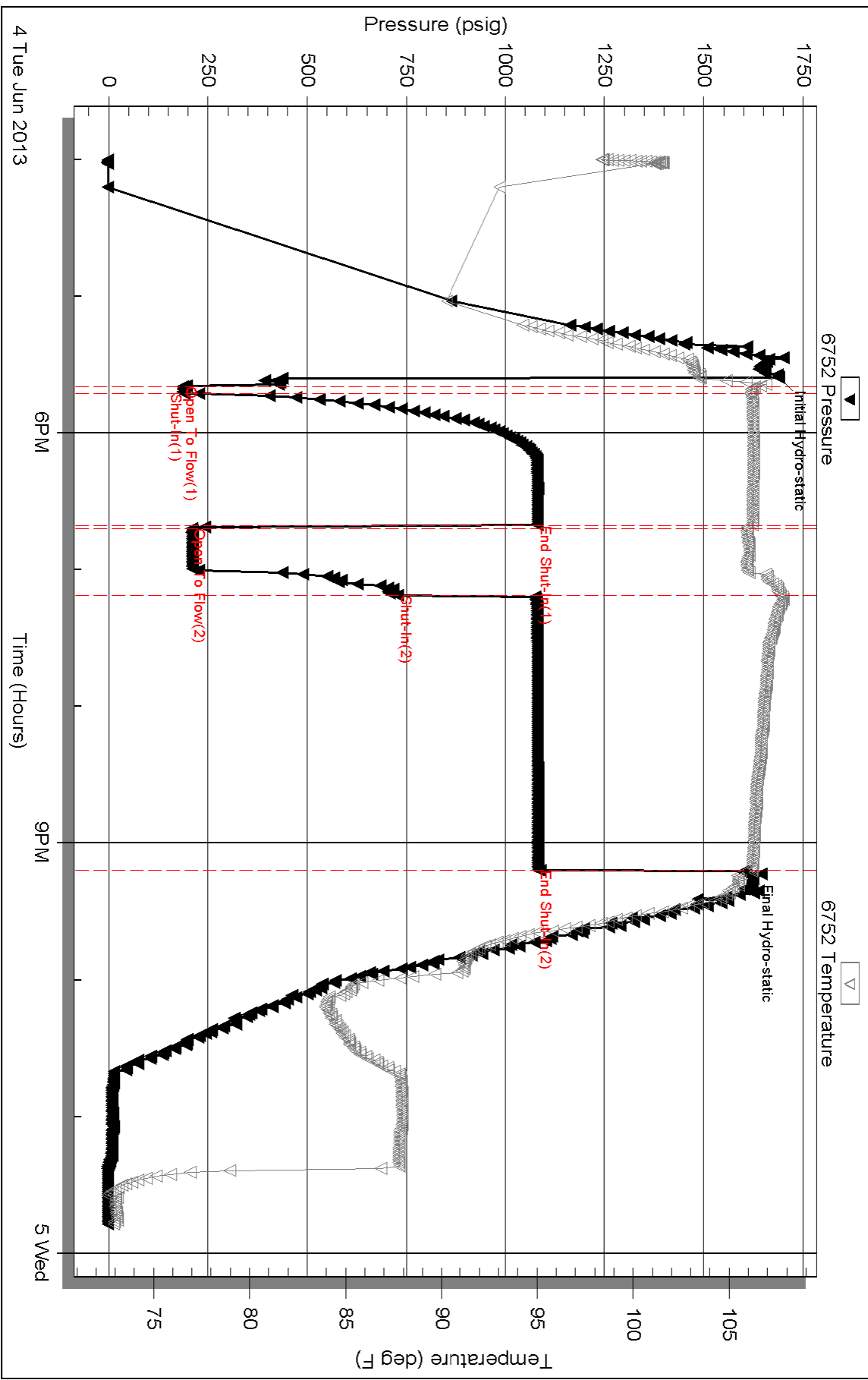
Laboratory Name:

Laboratory Location:

Recovery Comments: SAMPLER-200ML WATER 100% - 200 PSI

WATER= .217 @ 75 DEG = 37000.0 CHLORIDES

Pressure vs. Time



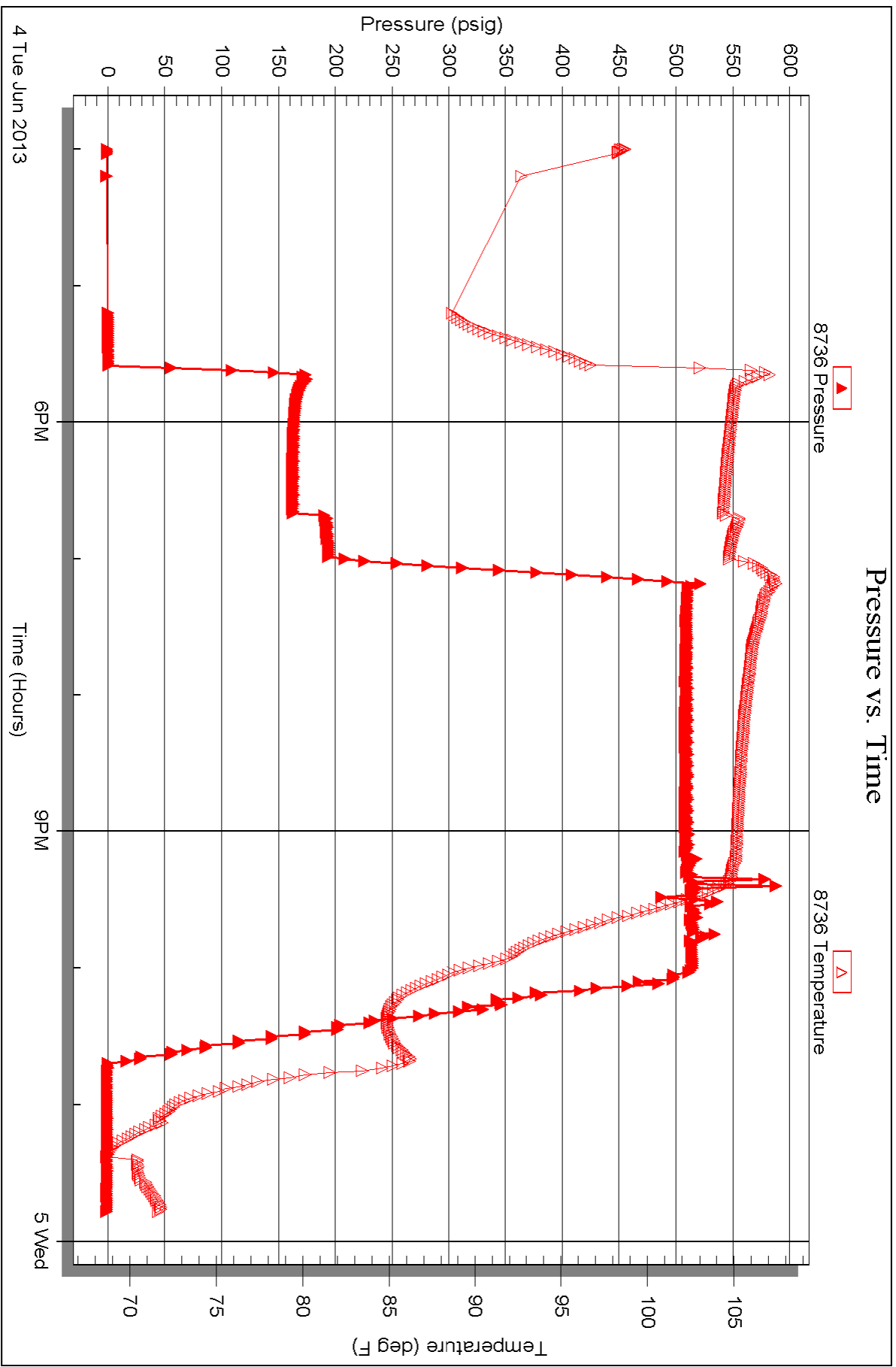
Serial #: 8736

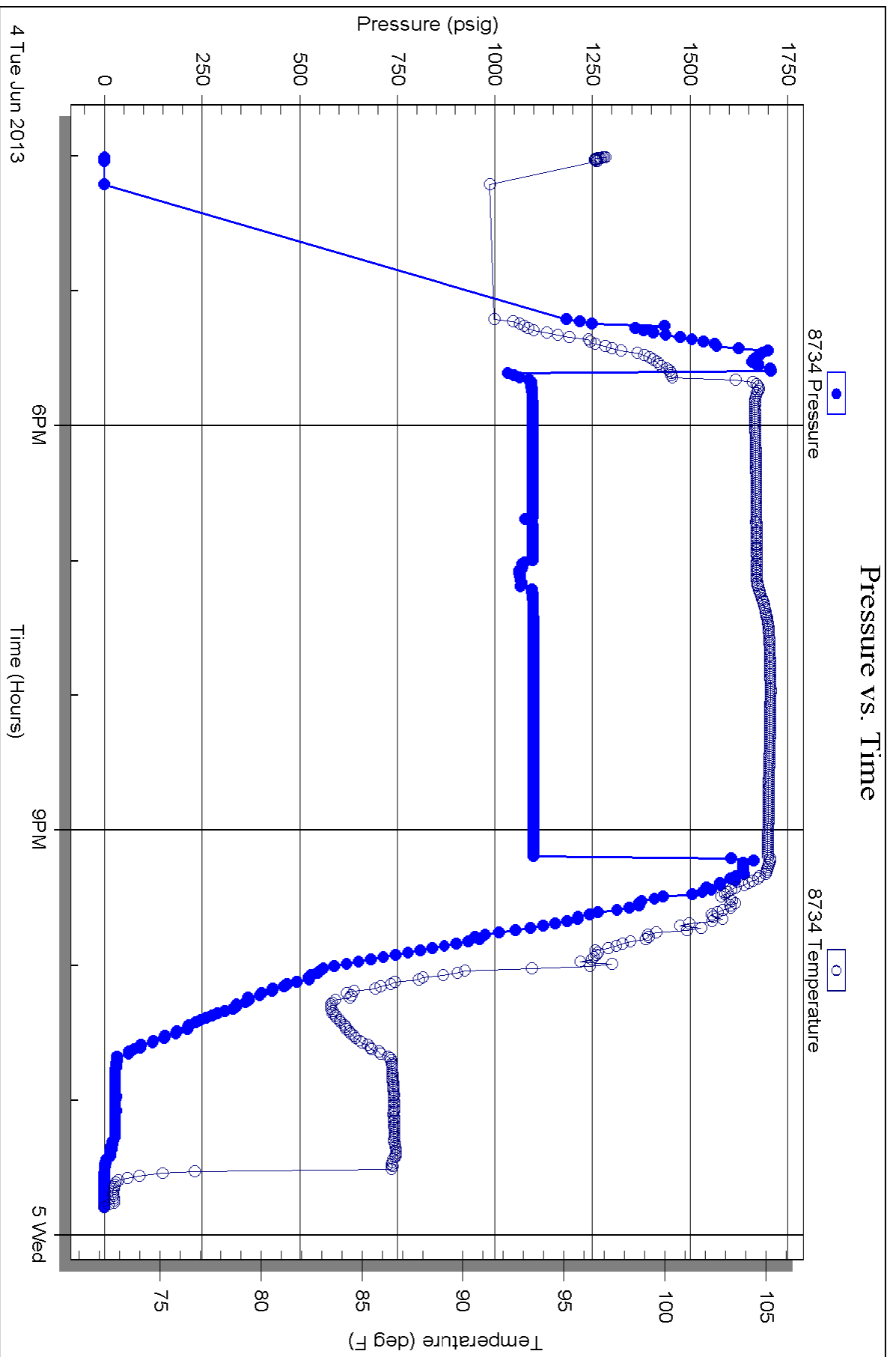
Fluid

Samuel Gary Jr. and Associates, Inc.

Bob et al 1-32

DST Test Number: 2







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

32 16s 14w Barton

1515 Wynkoop St. Ste 700
Denver, CO 80202

Bob et al 1-32

Job Ticket: 53811

DST#: 3

ATTN: Chris Mitchell

Test Start: 2013.06.05 @ 06:00:00

GENERAL INFORMATION:

Formation: **LKC- J**

Deviated: No Whipstock: 2011.00 ft (KB)

Time Tool Opened: 08:18:30

Time Test Ended: 14:22:50

Test Type: Conventional Straddle (Initial)

Tester: Randy Williams

Unit No: 41

Interval: 3374.00 ft (KB) To 3400.00 ft (KB) (TVD)

Reference Elevations: 2011.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

2001.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 64.74 psig @ 3375.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.05

End Date:

2013.06.05

Last Calib.: 2013.06.05

Start Time: 06:00:01

End Time:

14:22:50

Time On Btm: 2013.06.05 @ 08:18:10

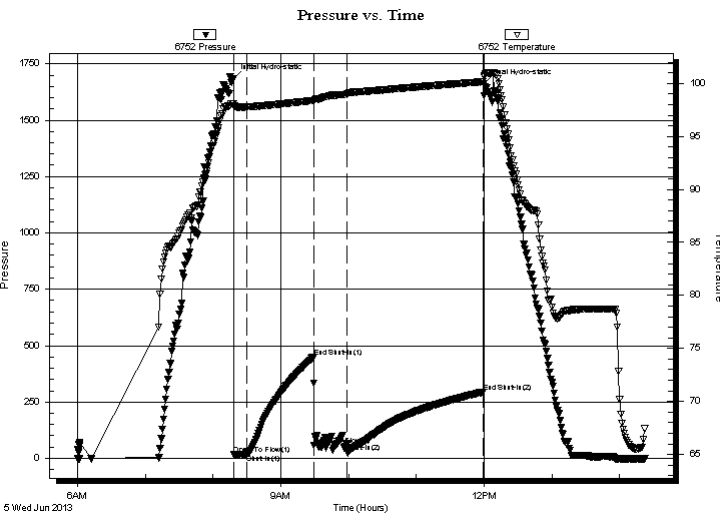
Time Off Btm: 2013.06.05 @ 11:59:50

TEST COMMENT: IF-10- WSBB,Built to 1"

ISN-60- NBB

FF-30- No blow

FSN-120- NBB



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.95	98.13	Initial Hydro-static
1	16.46	97.87	Open To Flow (1)
12	18.99	97.79	Shut-In(1)
71	450.15	98.38	End Shut-In(1)
71	56.12	98.32	Open To Flow (2)
101	64.74	98.98	Shut-In(2)
221	294.14	100.17	End Shut-In(2)
222	1661.90	100.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%	0.14
0.00	3 SPECS OF OIL ON TOOL	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. and Associates, Inc.

32 16s 14w Barton

1515 Wynkoop St. Ste 700
Denver, CO 80202

Bob et al 1-32

Job Ticket: 53811

DST#: 3

ATTN: Chris Mitchell

Test Start: 2013.06.05 @ 06:00:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	MUD 100%	0.140
0.00	3 SPECS OF OIL ON TOOL	0.000

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

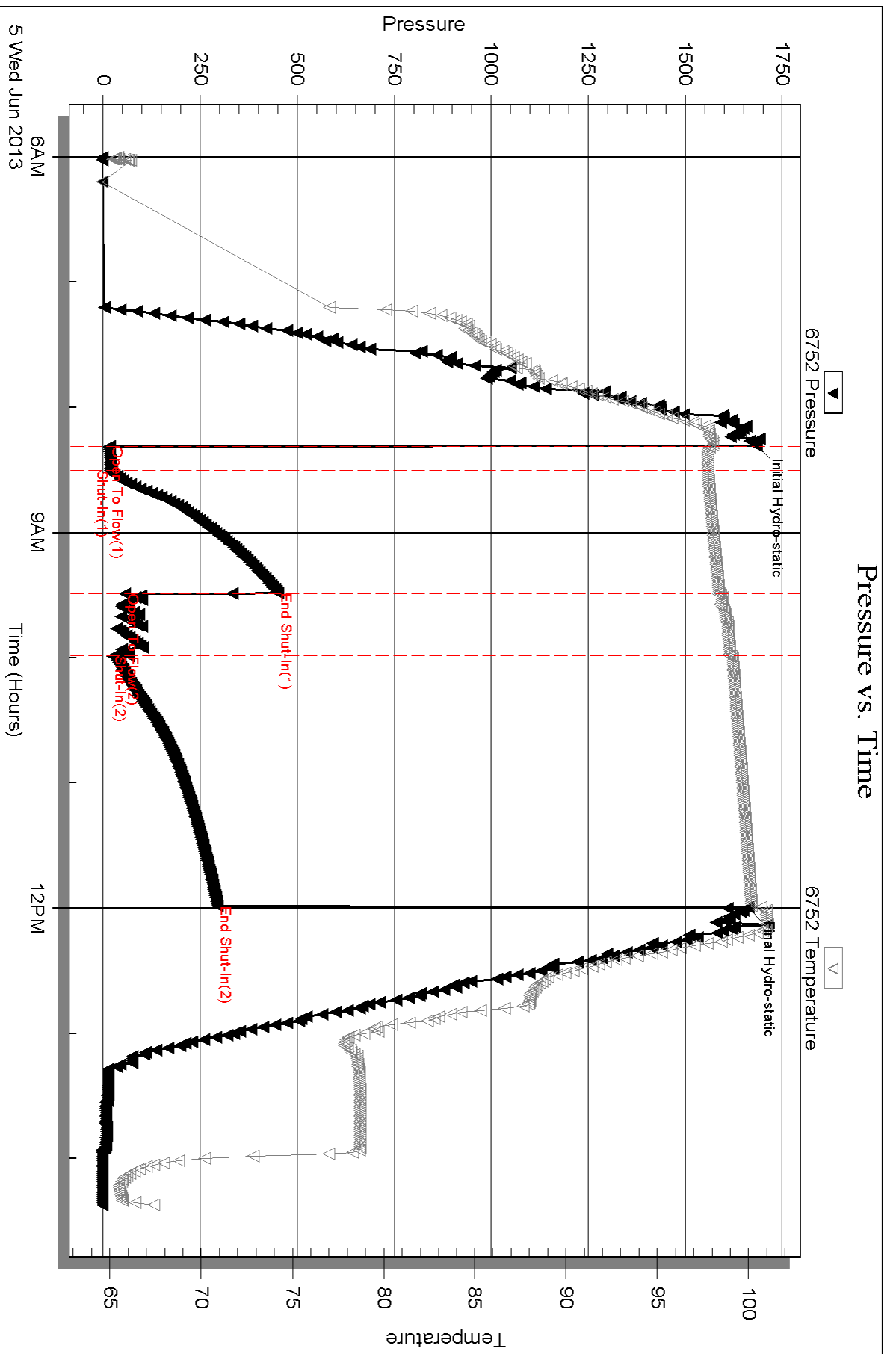
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: SAMPLER= 220 ML GAS 100 %, 175 PSI



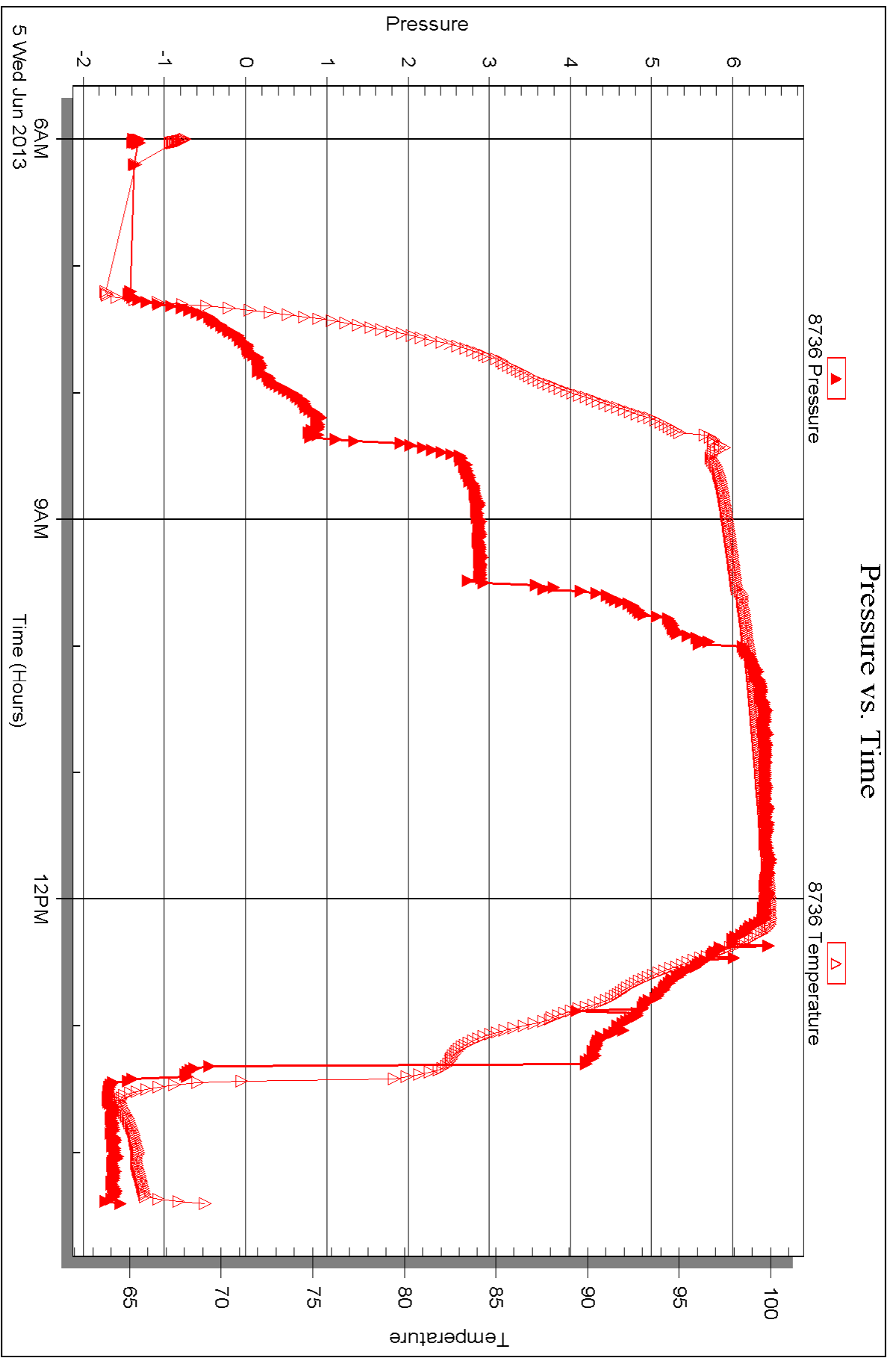
Serial #: 8736

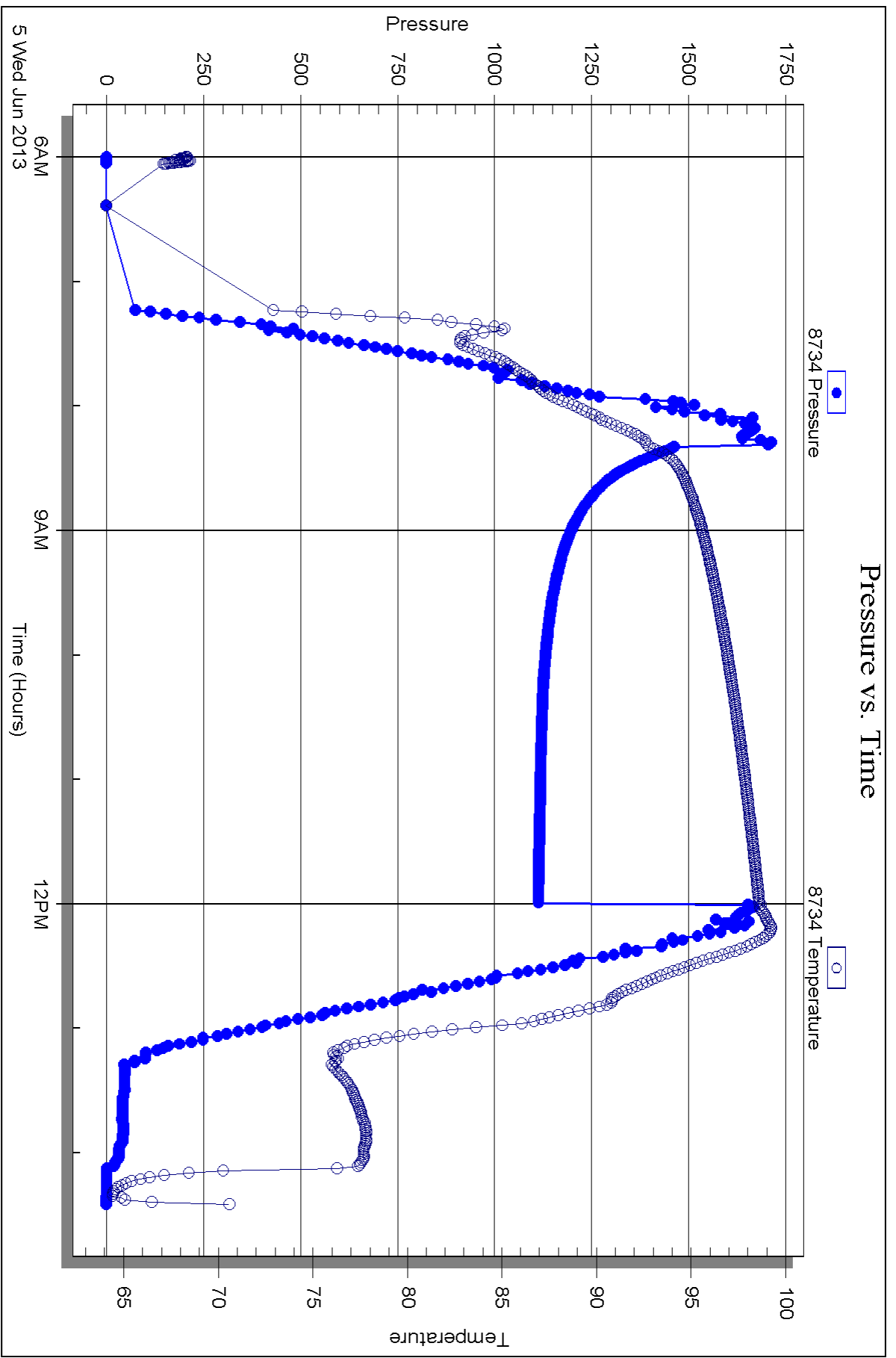
Fluid

Samuel Gary Jr. and Associates, Inc.

Bob et al 1-32

DST Test Number: 3







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

Well Name: Bob et al 1-32
 Location: Sec. 32-16S-14W Barton County, Kansas
 License Number: 15-009-25835-0000
 Spud Date: Apr. 26, 2013
 Surface Coordinates: 1460 FNL/ 850 FEL
 Region: WILDCAT
 Drilling Completed: June 4, 2013

Bottom Hole
 Coordinates:
 Ground Elevation (ft): 2001' K.B. Elevation (ft): 2011'
 Logged Interval (ft): 1600' To: 3600' Total Depth (ft): 3600'
 Formation: Lansing
 Type of Drilling Fluid: Natural Chemical

Printed by WellSight Log Viewer 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, Rich Osborn, Jeff Quimby
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla . 73945
 Off. 888-543-8378 Cell: 620-600-0777

DST's Report

DST #1 3240'-3296' 10 60 20 80
 IF-WK SRFC BLO/ ISI- NB /FF- NB /FSI- NB
 IH- 1575, FS- 1485 /IF-17 TO 20,FF- 19 TO 20 /ISI- 422,FSI- 404
 RECOVERY -7' OF MUD, 100% MUD BHT 100 DEG
 PIT CLHLORIDES 8400/SAMPLER 100 ML MUD,165 PSI TOTAL 100 ML

DST's Report

DST #2 3374'-3400' 5 60 30 120
 IF- BBB 30 SEC /ISN NBB /FF WBB BBB 20 MIN /FSN NBB
 RECOVERY- 512' MUD 100% 7.18 BBL, 640' MUDDY WATER 30% M 70% W 8.98 BBL
 PIT CLHORIDES 37000.0/ SAMPLER 200ML WATER 100%- 200 PSI TOTAL 16.160 BBL

DST's Report

ROCK TYPES

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

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
- 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
- Sandyms
- 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

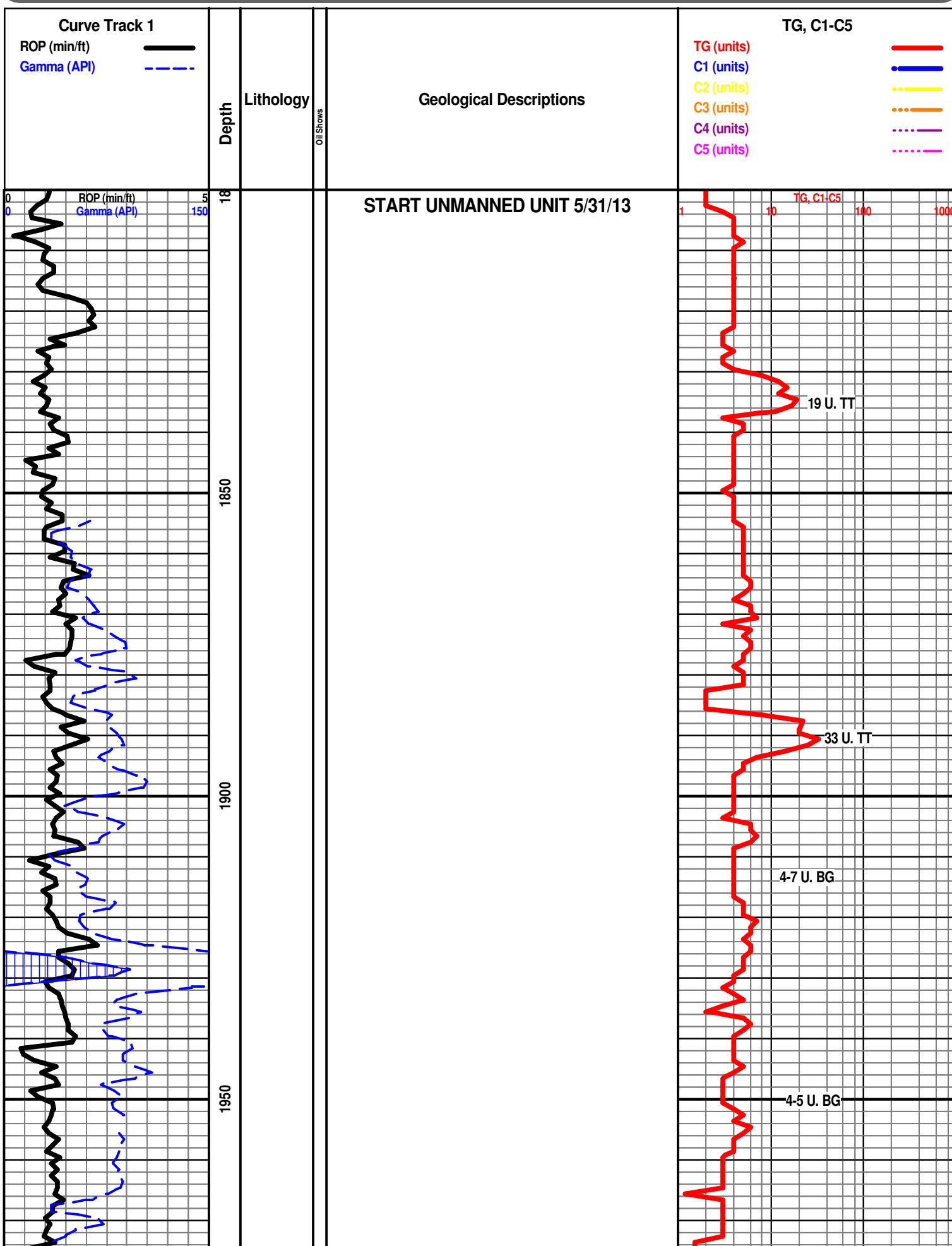
- Even
- Spotted
- Ques
- Dead
- Gas show

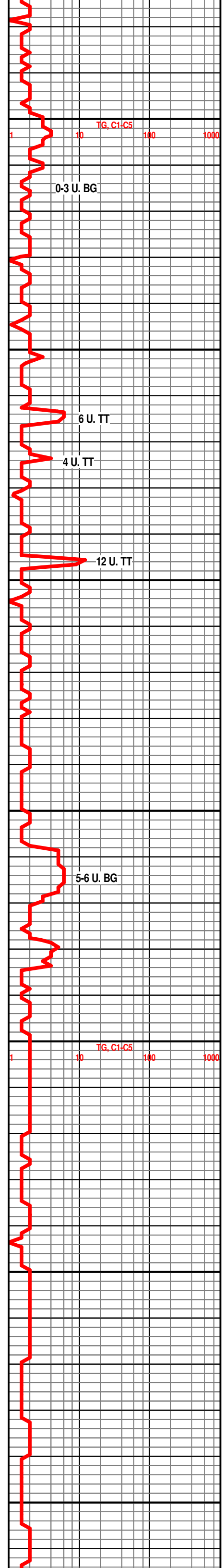
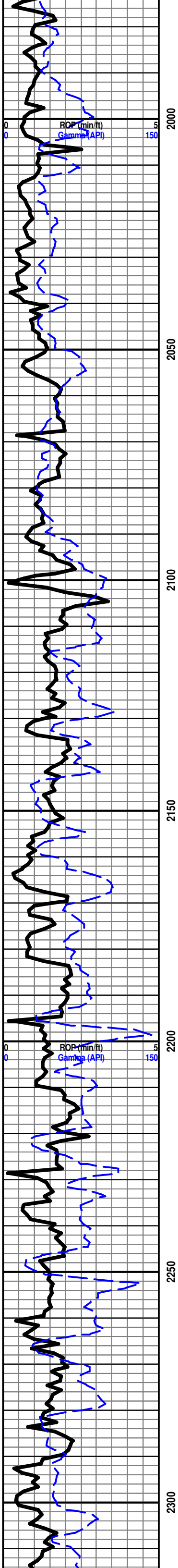
INTERVALS

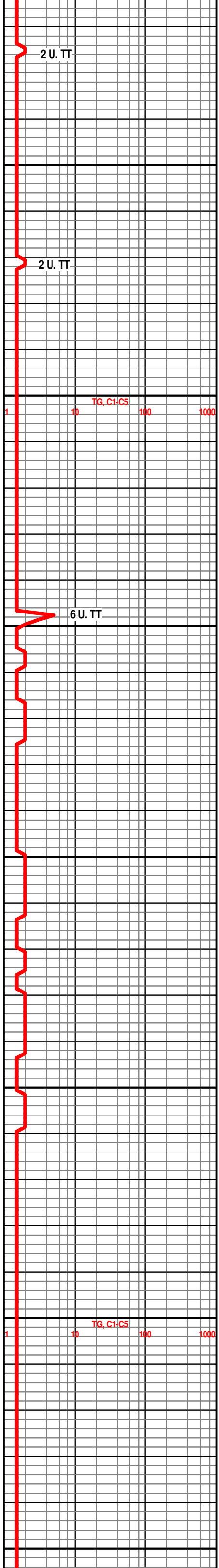
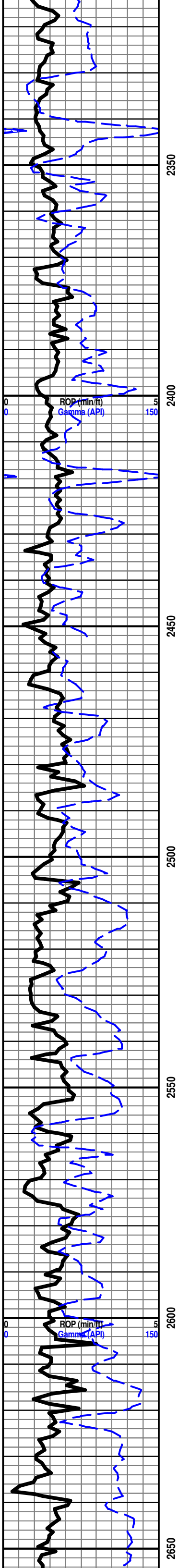
- Core
- Dst
- Dst

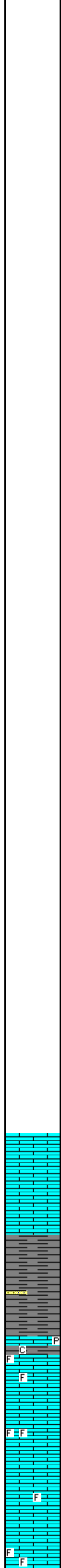
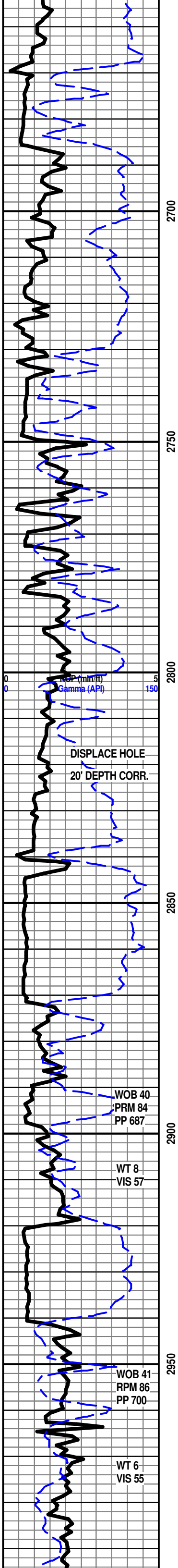
EVENTS

- Rft
- Sidewall









BASE ROOT SHALE 2686' -675'

HOWARD 2872' -861'

SEVERY 2921' -910'

TOPEKA 2942' -931'

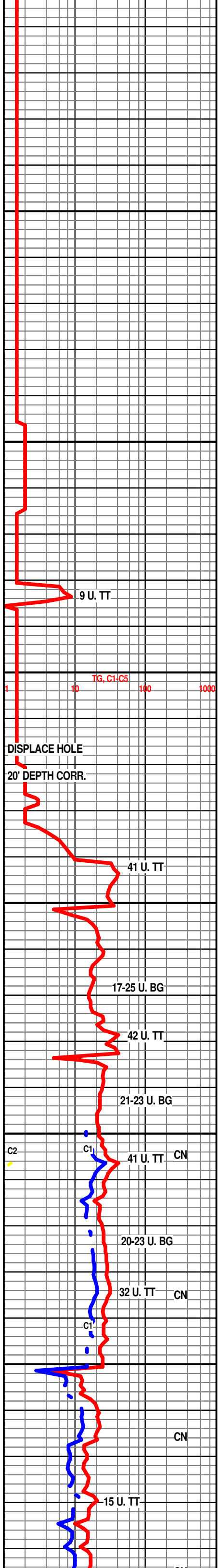
LS- LT GRY TO SLI CRMMY IP, HD TO BRITT, FN-XLN RE-XLN MTRX IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- GRY TO LT GRY, V/SFT V/BRITT, STRNGER FRI SAND, BLKY

LS- CRM TO LT TN, HD DNSE TO BRITT, FN-MD-XLN TO FN-XLN, ABDT IMBD FOSS FRGS IP, SFT V/GMMY CHLK IN TRAY, TRS IMBD PYR IP, TRS DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO LT TN, HD DNSE TO BRITT, FN-MD-XLN RE-XLN MTRX IP, SCATT TRS IMBD FOSS FRGS, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN TO SLI LT GRY, HD DNSE, FN-XLN TO



DISPLACE HOLE
20' DEPTH CORR.

DISPLACE HOLE
20' DEPTH CORR.

WOB 40
PRM 84
PP 687

WT 8
VIS 57

WOB 41
RPM 86
PP 700

WT 6
VIS 55

9 U. TT

TG, C1-C5

41 U. TT

17-25 U. BG

42 U. TT

21-23 U. BG

41 U. TT CN

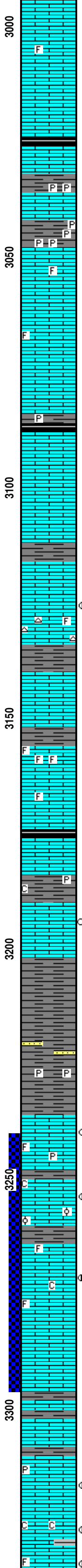
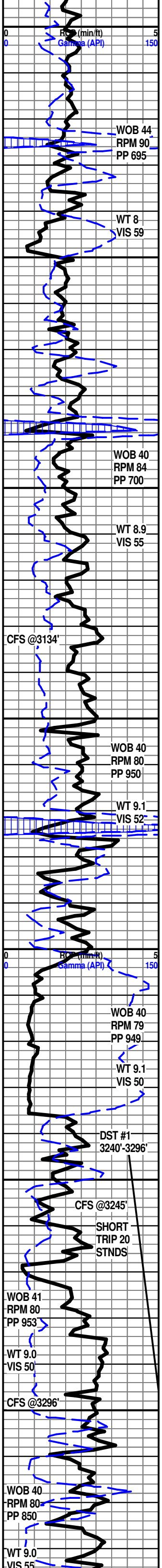
20-23 U. BG

32 U. TT CN

C1

CN

15 U. TT



MD-FN-XLN, SLI RE-XLN, SCATT IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN TN, HD DNSE, FN-XLN V/FN-XLN, RE-XLN MTRX IP, IMBD FOSS FRGS, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- BLK SFT CARB

SH- MD TO LT GRY, FRM TO SLI SFT BRITT, ABTD IMBD PYR THRU IP, BLKY TO SLI SMTH BLKY

SH- MD GRY TO DRK GRY, ABTD IMBD PYR, SMTH BLKY TO BLKY

Le COMPTON 3049' -1038'

LS- LT TN TN TO SLI LT GRY, HD DNSE, FN-XLN TO MD-FN-XLN, RE-XLN MTRX, SCATT IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- BLK SFT CARB W/ IMBD PYR IP

LS- TN TO CRM LT GRY, HD DNSE, V/FN-XLN TO FN-XLN, RE-XLN MTRX, SCATT IMBD CALC XLS, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN CRM, HD DNSE, V/FN-XLN TO SLI MD-XLN, RE-XLN MTRX, ABTD IMBD CALC XLS, ABTD IMBD PYR IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- GRY LT TN TO BRWN (DUE TO OIL STAIN), V/ HD DNSE, MD-XLN W/IMBD FOSS FRGS IP TO TRS FN-XLN IP TO V/SUCRO IP, IMBD WHT CHRT, TRS WHT FRSTY CHRT IN TRAY, SCATT IMBD CALC XLS IP, V/V/DLL YEL FLO, TRS PR TO FR MICRO PP POR TRHU IN 30%, V/GD TO EXCL FLUSH CUT IN 10% EXCL SLW STRM CUT IN 10% PR TO FR SLW STRM CUT IN 30% NO CUT IN 60%, BRWN LEECH ON DISH

LS- OFF WHT CRM TO LT TN, HD DNSE TO BRITT IP, MD-FN-XLN RE-XLN MTRX, ABTD IMBD FOSS FRGS, V/DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

HEEBNER 3173' -1162'

SH- BLK SFT CARB

SH- GRY TO MD GRY, FRM TO SFT V/BRITT, TRS GMMY CHLK IP, TRS IMBD PYR, BLKY TO SMTH BLKY

LS- OFF WHT CRM TO LT TN BRWN IP, HD TO BRITT, MD-XLN RE-XLN MTRX IP, ABTD IMBD CALC XLS IP, V/DLL YEL FLO IN 30% NO FLO IN 70%, INTER XLN POR IN 30%, PR TO FR FLUSH CUT IN 10%, GD SLW STRM CUT IN 15%

DOUGLAS 3204' -1193'

SH- LT GRY TO LT GRN, SFT V/SFT V/GMMY, TRS IMBD PYR, BLKY

SH- RED GRN TO LT GRY, V/SFT V/BRITT V/GMMY, IMBD PYR IP, TRS SAND STRNGER, BLKY

LANSING 3236' -1225'

LS- LT TN CRM, HD DNSE, MD-XLN TO FN-XLN IP, RE-XLN MTRX, SLI SUCRO IP, ABTD IMBD CALC XLS IP, TRS IMBD FOSS FRGS IP, DLL YEL MIN FLO IN 10%, INTER-XLN POR IP (W/OIL STAIN), NO VIS CUT

LANSING "C" 3251' -1240'

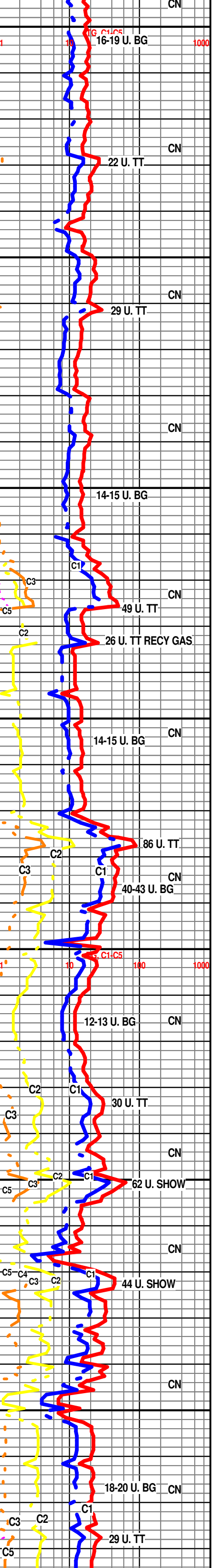
3254'-3258' LS- OFF WHT CRM TO LT TN TN (W/ TN TO LT BRWN OIL STAIN IN 80%), HD DNSE TO SLI BRITT IP, MD-FN-XLN TO MD-XLN, RE-XLN MTRX, IMBD CALC XLS IP, ABTD IMBD SML OOL IP, SLI TRS IMBD WHT CHALK, BRIT YEL GLD FLO IN 20%, PR TO FR VUG POR IP TO TRS PR INTER OOLITIC POR, FR FLUSH CUT IN 35% FR TO GD SLW STRM CUT IN 40%, SLI ODOR

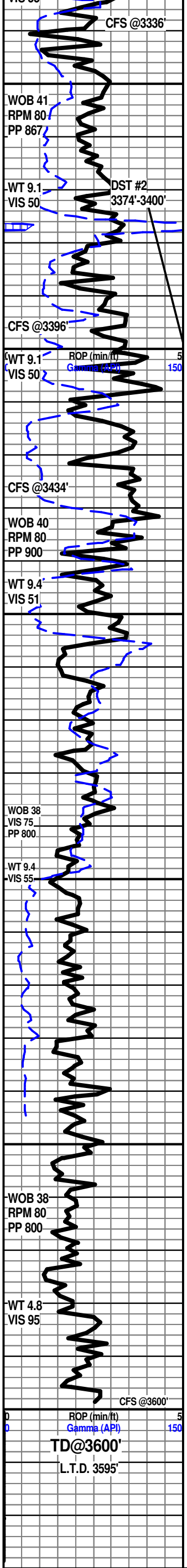
3268'-3271' LS- OFF WHT CRM LT TN TO TN (DUE TO OIL STAIN IN 60%) HD DNSE IP TO V/ BRIT, MD-XLN V/RE-XLN MTRX, SLITY SUB-CHLKY IP, IMBD FOSS IP, ABTD IMBD SMLL CALC XLS THRU, DLL YEL FLO IN 50% YEL GLD FLO IN 30%, FR TO GD VIS MICRO VUG POR IN 30% HVY TRS OOLMLDIC POR IP, LT FLUSH CUT IN 20% FR TO GD SLW STRM CUT IN 30% LT GASSY CUT IN 20%, NO ODOR

LANSING "F" 3313' -1302'

3308'-3312' LS- OFF WHT WHT CRM (W/ TN LT TN OIL STAIN IN 30%), HD DNSE, MD-XLN RE-XLN MTRX, SLI SUCRO IP, TRS IMBD PYR IP, TRS IMBD CALC XLS IP, BRIT YEL GLD IN 10% DLL YEL GLD IN 30%, PR SCATT VUG POR THRU (W/ HVY TAR STAIN IN VUG) GD FLUSH CUT IN 15% GD TO EXCL SLW STRM CUT IN 25%

3322-3326 LS-OFF WHT TN TO LT BRWN (W/ OIL STAIN IN 70%, W/ SCATT DOS), HD DNSE, MD-XLN RE-XLN MTRX IP, SUCRO IP, SCATT IMBD CALC XLS, SCATT IMBD OOL IP, HVY TRS FRM TO MD SFT CHLK IN TRAY, TRS LMND LT GRY SH, SCATT BRIT YEL GLD FLO IN 45%, SCATT TRS PR INTER XLN POR 10%, GD FLUSH CUT IN 40% EXCEL SLW STRM CUT IN 50% LT BRWN OIL ON DISH





3330'-3334' LS- OFF WHT CRM (W/ LT TN LT BRWN IN 25% SCATT DOS IN TRAY) HD DNSE SLI TRS BRIT, MD-FN-XLN TO V/ SUB-SUCRO IP, TRS IMBD FOSS FRGS, NO VIS FLO TO DLL YEL GLD FLO IN 20%, NO VIS POR, FR FLUSH CUT IN 30% FR SLW STRM CUT IN 30%, SLI LT BRWN LCH

3340'-3345' LS- OFF WHT CRM TO V/ LT TN (W/ OIL STAIN ON 20%), HD DNSE TO V/BRITT IP, FN-XLN TO SUB-SUCRO, SCATT TRS IMBD SMLL CALC XLS, DLL YEL FLO IN 40%, TRS INTER XLN POR IN 10%, PR FLUSH CUT IN 10% FR TO GD SLW STRM CUT IN 15%

3358'-3361' LS-OFF WHT LT TN (W/ TRS TN OIL STAIN), HD TO BRITT IP, MD-XLN TRS RE-XLN MTRX IP SUB-SUCRO IP, BRIT YEL GLD FLO IN 10%, NO VIS POR, NO VIS FLUSH CUT TRS V/PR SLW STRM CUT

3371'-3375' LS- OFF WHT WHT CRM TO SLI LT TN, HD DNSE TO SLI BRIT, MD-XLN SUB-SUCRO IP, ABTD IMBD SMLL TO MD OOLMLDS THRU, DLL YEL FLO IN 30%, TRS OOLMLDIC POR (W/ TRS LT TN OIL STAIN) TO NO VIS POR, NO VIS CUT PR SLW STRM CUT IN 5%

LANSING "H" 3384' -1373'

3387'-3390' LS- OFF WHT CRM TO LT TN IP (W/ TN OIL STAIN IN 45%) HD TO V/BRITT, MD-XLN RE-XLN MTRX TRS SUB-SUCRO, TRS IMBD SMLL CALC XLS IP, DLL YEL GLD FLO IN 30% BRIT YEL GLD IN 25%, POSS FRACT POR TO NO VIS POR, NO VIS FLUSH CUT PR TO FR SLW STRM CUT IN 10%, "SAMPLES WERE VERY FINE GROUND UP"

3403'-3405' LS- OFF WHT CRM TO SLI LT TN (W/ LT TN OIL STAIN), HD DNSE TO V/BRITT, MD-XLN TO SLI FN-XLN, ABTD IMBD FOSS FRGS W/ OOL, DLL YEL FLO IN 80%, TRS MICRO PP POR IN 10% TO NO VIS POR, TRS PR FLUSH CUT IN 5% V/PR SLW STRM CUT IN 6%

3419'-3423' LS- CRM TO LT TN SLI LT GRY (W/ 50% DOS 5% LIVE OIL STAIN) HD V/BRITT, MD-XLN V/RE-XLN MTRX TO V/SUB-SUCRO IP, ABTD IMBD FOSS FRGS, SCATT IMBD CALC XLS, DLL YEL GLD FLO IN 50% BRIT YEL GLD IN 5%, PR TO TRS FR VIS INTER FOSS POR IN 9%, PR TO FR FLUSH CUT IN 16% PR SLW STRM CUT IN 10% GD SLW STRM CUT IN 4%, "SAMPLES WERE VERY FINE GROUND UP"

3438'-3441' LS- OFF WHT CRM TO LT TN (W/ SLI TRS DOS OIL STAIN IN 10%), HD TO BRITT, MD-XLN SLI RE-XLN MTRX IP, ABTD IMBD OOLMLDS IP, TRS IMBD PYR IP, FREE CALC XLS IN TRAY W/ DOS, DLL YEL GLD FLO IN 40%, POSS FRACT POR, PR FLUSH CUT IN 5% GD SLW STRM CUT IN 12%

3347'-3351' LS- CRM LT TN (W. OIL STAIN IN 45% DOS IN 5%), HD DNSE TO SLI BRIT, MD-XLN SUB-SUCRO TO SCATT RE-XLN MTRX IP, ABTD IMBD CALC XLS THRU IP, TRS IMBD PYR IP, SCATT DLL YEL GLD FLO IN 80%, SMLL TO MD VUG POR IN 30% W/ OIL STAIN TO SCATT INTER XLN POR IN 20%, FR FLUSH CUT IN 26% GD SLW STRM CUT IN 40%

BKC 3456' -1445'

3467'-3471' LS- CRM TO LT TN TN (W/ OIL STAIN ON 18%), HD DNSE TO SLI BRITT IP, MD-XLN RE-XLN MTRX IP TO SLI SUB-SUCRO IP, IMBD FOSS FRGS THRU IP, SCATT IMBD CALC XLS, DLL YEL GLD FLO IN 65% BRIT YEL GLD IN 11%, TRS INTER XLN POR IN 13%, PR TO FR FLUSH CUT IN 13% GD SLW STRM CUT IN 33%

SH- RED DRK RED, V/ SFT GMMY, W/ ABTD IMBD RED GRY CLR CHRT, BLKY

ARBUCKLE 3491' -1480'

3481'-3490' CONGL- CLR BRWN BLK DUE TO OIL STAIN, HD DNSE, W/ INTERBEDS OF CHRT, IMBD LS IP, ABTD IMBD CLR TO FRSTY QRTZ GRNS IP, ANG TO SUB-ANG, IMBD SH IP, IMBD SMLL OOL, TRS SCATT IMBD CHLK IP, TRS BIT SH, TRS DLL YEL GLD FLO IN 2%, HVY TRS LIVE OIL IP, TRS SCATT INTER XLN POR IP, EXCEL FLUSH CUT IN 85% EXCEL SLW STRM CUT IN 63%, BRWN LCH ON DISH GD OIL ODOR

3491' DOL- OFF WHT TO CRM LT TN IP (DUE TO STAIN IN 5%), HD DNSE, V/ FN-XLN RE-XLN MTRX, IMBD SMLL OOL IP, TRS CORS SURCRO IP, HVY TRS SFT WHT CHLK IMBD IN 30%, DLL YEL GLD IN 53% BRIT YEL GLD IN 4%, PR VIS INTER XLN POR 1%, NO FLUSH CUT TO FR SLW STRM CUT IN 20%

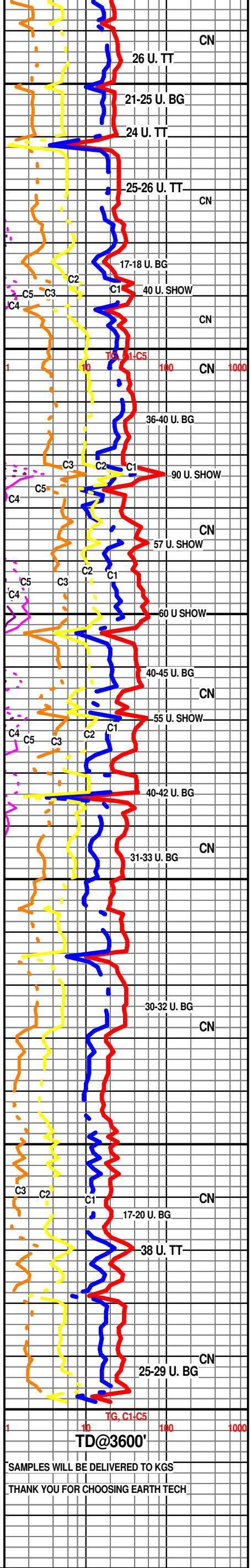
DOL- OFF WHT WHT TO CRM, HD DNSE, V/ FN-XLN RE-XLN MTRX, IMBD SMLL OOL THRU IP, DLL YEL GLD IN 53%, NO VIS POR, NO VIS CUT OR SHOW

DOL- WHT OFF WHT IP, HD DNSE, FN-XLN TO MD-XLN, ABTD IMBD SUB-RND DOL GRNS THRU IP, DLL YEL GLD FLO IN 24%, NO VIS POR, NO VIS CUT OR SHOW

DOL- SLI LT CRM TO WHT OFF WHT, HD DNSE, FN-XLN TO MD-XLN, ABTD IMBD SUB-RND TO SUB-ANG DOL GRNS THRU IP, DLL YEL FLO IN 26%, NO VIS POR, NO VIS CUT OR SHOW

DOL- OFF WHT WHT, HD DNSE, FN-MD-XLN, ABTD IMBD SMLL TO MD SUB-RND TO SLI SUB-ANG DOL GRNS THRU, DLL YEL FLO IN 37% NO VIS POR, NO VIS CUT OR SHOW

DOL- WHT, HD DNSE, MD-XLN TO FN-XLN, ABTD SMLL TO MD SUB-RND TO SUB-ANG IP DOL GRNS THRU, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW



SAMPLES WILL BE DELIVERED TO KGS
THANK YOU FOR CHOOSING EARTH TECH

R.T.D. 6:25AM @ 6/4/13

CTCH 1 HR

TOFL/ WEATHERFORD/ LIBERAL