



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1113164
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: _____



1113164

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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"/> Commingled <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	HOPKINS-FUNK 1-32
Doc ID	1113164

All Electric Logs Run

DENSITY-NEUTRON
INDUCTION
MICRO
SONIC
SPECTRAL GR

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

February 01, 2013

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

Re: ACO1
API 15-167-23830-00-00
HOPKINS-FUNK 1-32
SW/4 Sec.32-15S-15W
Russell 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: 10/18/2012
 Invoice # 6077

P.O.#:
 Due Date: 11/17/2012
 Division: Russell

Invoice

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

Reference:
 HOPKINS-FUNK 1-32

Description of Work:
 SURFACE JOB

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	WGS
Description	

Services / Items Included:	Quantity	Price	Taxable
Labor		\$ 963.85	No
Common-Class A	350	\$ 4,632.83	Yes
Bulk Truck Matl-Material Service Charge	370	\$ 781.11	No
8 5/8" Basket	2	\$ 667.11	Yes
Calcium Chloride	13	\$ 654.00	Yes
Pump Truck Mileage-Job to Nearest Camp	19	\$ 200.15	No
Flo Seal	87	\$ 183.67	Yes
8 5/8" Centralizer	2	\$ 135.11	Yes
Premium Gel (Bentonite)	7	\$ 120.29	Yes
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	19	\$ 117.12	No

Item	Quantity	Price	Taxable
Baffle Plate Aluminum, 8 5/8"	1	\$95.00	Yes

Invoice Terms:

Net 30

SubTotal: \$ 8,662.14
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,299.32)

SubTotal for Taxable Items:	\$ 5,609.92
SubTotal for Non-Taxable Items:	\$ 1,752.90
Total:	\$ 7,362.82
Tax:	\$ 423.55

7.55% Graham County Sales Tax

Thank You For Your Business!

Amount Due: \$ 7,786.37
Applied Payments:
Balance Due: \$ 7,786.37

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. 5240

Date	10-16-11	Sec.	32	Twp.	15	Range	15	County	Russell	State	KS	On Location		Finish	10,00th
Lease	Hopkins - Funk			Well No.	1-32			Location	Gutham 510 CL E & Vinto						
Contractor	Val Rig 6							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.						
Type Job	Surface							T.D.	729						
Hole Size	12 1/4							Depth	729.77						
Csg.	8 5/8							Depth							
Tbg. Size								Street							
Tool								City	State						
Cement Left in Csg.	42.19							Shoe Joint	42.19						
Meas Line								Displace	43.566L						
								Cement Amount Ordered	350 3%CL 2%gel						

EQUIPMENT

Pumptrk	9	No.	Cement	Heath	Common	350
Bulktrk	4	No.	Driver	Dave	Poz. Mix	
Bulktrk	4	No.	Driver	Heath	Gel.	7
					Calcium	13

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 87#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 370
	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	2 8 5/8
Baskets	2 8 5/8
AFU Inserts	
Float Shoe	
Latch Down	
	Perforate Plate
	Rubber Plug
Pumptrk Charge	Long Surface
Mileage	9

	Tax
	Discount
	Total Charge

X Signature 

Cement did Circulate
Hopkins - Funk # 1-32



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: 10/25/2012
 Invoice # 5417

P.O.#:

Due Date: 11/24/2012

Division: Russell

Invoice

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

Reference:
 HOPKINS-FUNK 1-32

Description of Work:
 PLUG JOB

RECEIVED

NOV 02 2012

SAMUEL GARY JR.
 & ASSOCIATES, INC.

DRLG COMP W/O LUG

Account	8200-145
Well/Prospect	
Deck	
ATE	
Approval	RG
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	Yes				
Common-Class A	147	\$ 2,001.38	Yes				
Bulk Truck Matl-Material Service Charge	254	\$ 551.54	Yes				
POZ Mix-Standard	98	\$ 489.44	Yes				
Pump Truck Mileage-Job to Nearest Camp	19	\$ 205.87	Yes				
Premium Gel (Bentonite)	9	\$ 159.08	Yes				
Flo Seal	61	\$ 132.46	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	19	\$ 120.47	Yes				
Dry Hole Plug	1	\$ 60.80	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,712.43
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (706.87)

SubTotal for Taxable Items: \$ 4,005.57
 SubTotal for Non-Taxable Items: \$ -

8.30% Russell County Sales Tax

Total: \$ 4,005.56
 Tax: \$ 332.46
Amount Due: \$ 4,338.02
Applied Payments:
Balance Due: \$ 4,338.02

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. 5417

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-22-12	32	15	15	RUSSELL	KANSAS		12:00 PM
Lease HOPKINS-FUNK		Well No. #1-32		Location GORHAM STO COUNTYLINE - E/INTO			
Contractor VAL #6				Owner SAM GARY JR.			
Type Job P.T.A				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.			
Hole Size 7 7/8"		T.D.		Charge To SAM GARY JR.			
Csg. 4 1/2"		Depth		Street 1515 WYNKOOP, STE 700			
Tbg. Size		Depth		City DENVER State CO, 80202			
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 60/40 20% 4% 5L			
Meas Line		Displace					
EQUIPMENT							
Pumptrk #5	No.	Cement Helper BRETT		Common 147			
Bulktrk #8	No.	Driver LONNIE		Poz. Mix 98			
Bulktrk D/U	No.	Driver CESCO		Gel. 9			
JOB SERVICES & REMARKS							
Remarks:				Calcium			
Rat Hole 30 SKS				Hulls			
Mouse Hole 15 SKS				Salt			
Centralizers				Flowseal 61#			
Baskets				Kol-Seal			
D/V or Port Collar				Mud CLR 48			
				CFL-117 or CD110 CAF 38			
				Sand			
1st @ 3,474'		25 SKS		Handling 254			
2nd @ 1,034'		25 SKS		Mileage			
3rd @ 780'		40 SKS		FLOAT EQUIPMENT			
4th @ 460'		100 SKS		Guide Shoe			
5th @ 40'		10 SKS		Centralizer			
RAT HOLE		30 SKS		Baskets			
MOUSE HOLE		15 SKS		AFU Inserts			
		245 SKS		Float Shoe			
				Latch Down			
				1-8 5/8" WOODEN PLUG			
				Pumptrk Charge plug			
				Mileage 19			
				Tax			
				Discount			
				Total Charge			
X Signature Rand J. ...							



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr & Assoc inc

32-15s-15w Russell

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

Hopkins-Funk 1-32

Job Ticket: 49359

DST#: 1

Test Start: 2012.10.19 @ 22:52:05

GENERAL INFORMATION:

Formation: **LKC " C-E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:48:20

Time Test Ended: 06:48:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 39

Interval: 3220.00 ft (KB) To 3270.00 ft (KB) (TVD)

Reference Elevations: 1940.00 ft (KB)

Total Depth: 3270.00 ft (KB) (TVD)

1930.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8372 Outside

Press @ Run Depth: 44.73 psig @ 3232.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.19 End Date: 2012.10.20

Last Calib.: 2012.10.20

Start Time: 22:52:05 End Time: 06:48:10

Time On Btm: 2012.10.20 @ 00:47:10

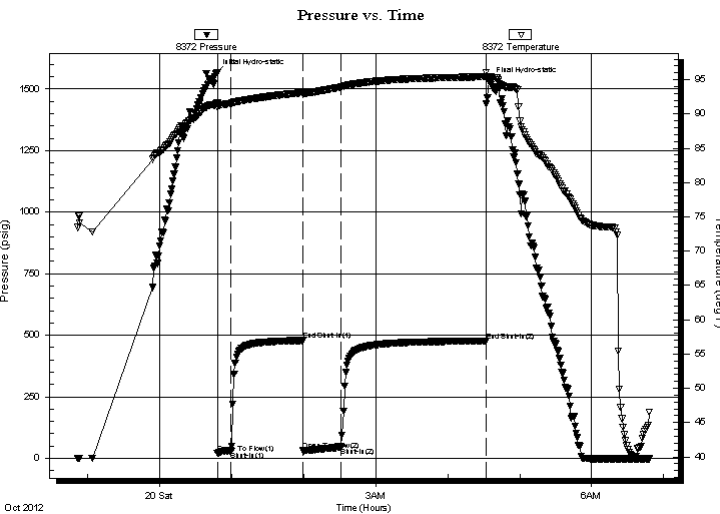
Time Off Btm: 2012.10.20 @ 04:34:29

TEST COMMENT: IF:(10min) 1" Blow in 3 min. 2" in 10 min.

IS:(60min) No Return

FF:(30min) 1.5" Blow

FS:(120min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1564.03	91.44	Initial Hydro-static
2	19.48	90.90	Open To Flow (1)
13	28.38	91.54	Shut-In(1)
73	478.45	93.09	End Shut-In(1)
73	31.46	92.89	Open To Flow (2)
104	44.73	93.91	Shut-In(2)
225	477.15	95.43	End Shut-In(2)
228	1531.27	95.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	MW m=20% w=80%	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr & Assoc inc

32-15s-15w Russell

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

Hopkins-Funk 1-32

Job Ticket: 49359

DST#: 1

Test Start: 2012.10.19 @ 22:52:05

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:

58000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	MW m=20% w=80%	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Resistivity- .20 @ 46 = 58000

Sampler Data- m=600ml w=2400ml pressure=155lbs



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr & Assoc inc

32-15s-15w Russell

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

Hopkins-Funk 1-32

Job Ticket: 49360 **DST#: 2**
Test Start: 2012.10.21 @ 01:45:05

GENERAL INFORMATION:

Formation: **LKC"K-L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:40:40
 Time Test Ended: 08:30:20
 Interval: **3400.00 ft (KB) To 3435.00 ft (KB) (TVD)**
 Total Depth: 3435.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Andy Carreira
 Unit No: 39
 Reference Elevations: 1940.00 ft (KB)
 1930.00 ft (CF)
 KB to GR/CF: 10.00 ft

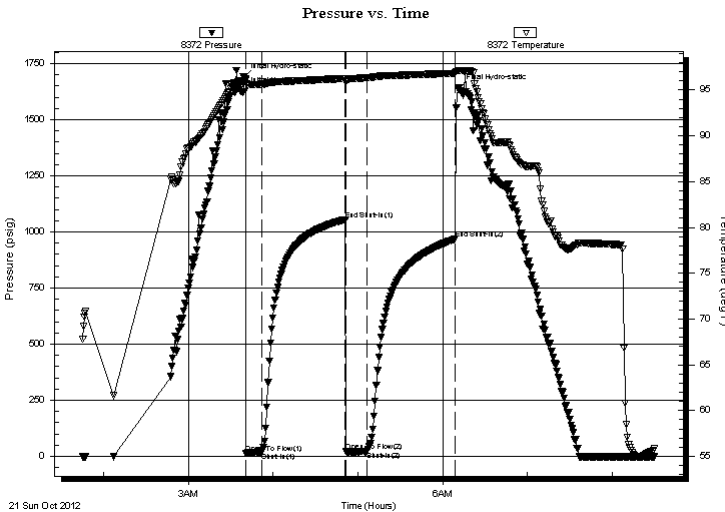
Serial #: 8372

Outside

Press @ RunDepth: 22.33 psig @ 3401.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.21 End Date: 2012.10.21 Last Calib.: 2012.10.21
 Start Time: 01:45:05 End Time: 08:30:20 Time On Btm: 2012.10.21 @ 03:38:40
 Time Off Btm: 2012.10.21 @ 06:11:09

TEST COMMENT: IF:(10min) Weak surface blow
 IS:(60min) No Return
 FF:(15min) No Blow
 FS:(60min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1626.08	95.96	Initial Hydro-static
1	1686.65	96.01	Initial Hydro-static
2	14.30	95.22	Open To Flow (1)
13	19.95	95.63	Shut-In(1)
73	1055.11	96.26	End Shut-In(1)
73	21.34	95.86	Open To Flow (2)
88	22.33	96.34	Shut-In(2)
151	968.44	96.84	End Shut-In(2)
153	1636.93	97.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
7.00	SOSM o=tr m=100%	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr & Assoc inc

32-15s-15w Russell

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

Hopkins-Funk 1-32

Job Ticket: 49360

DST#: 2

Test Start: 2012.10.21 @ 01:45:05

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: 60.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
7.00	SOSM o=tr m=100%	0.098

Total Length: 7.00 ft Total Volume: 0.098 bbf

Num Fluid Samples: 0

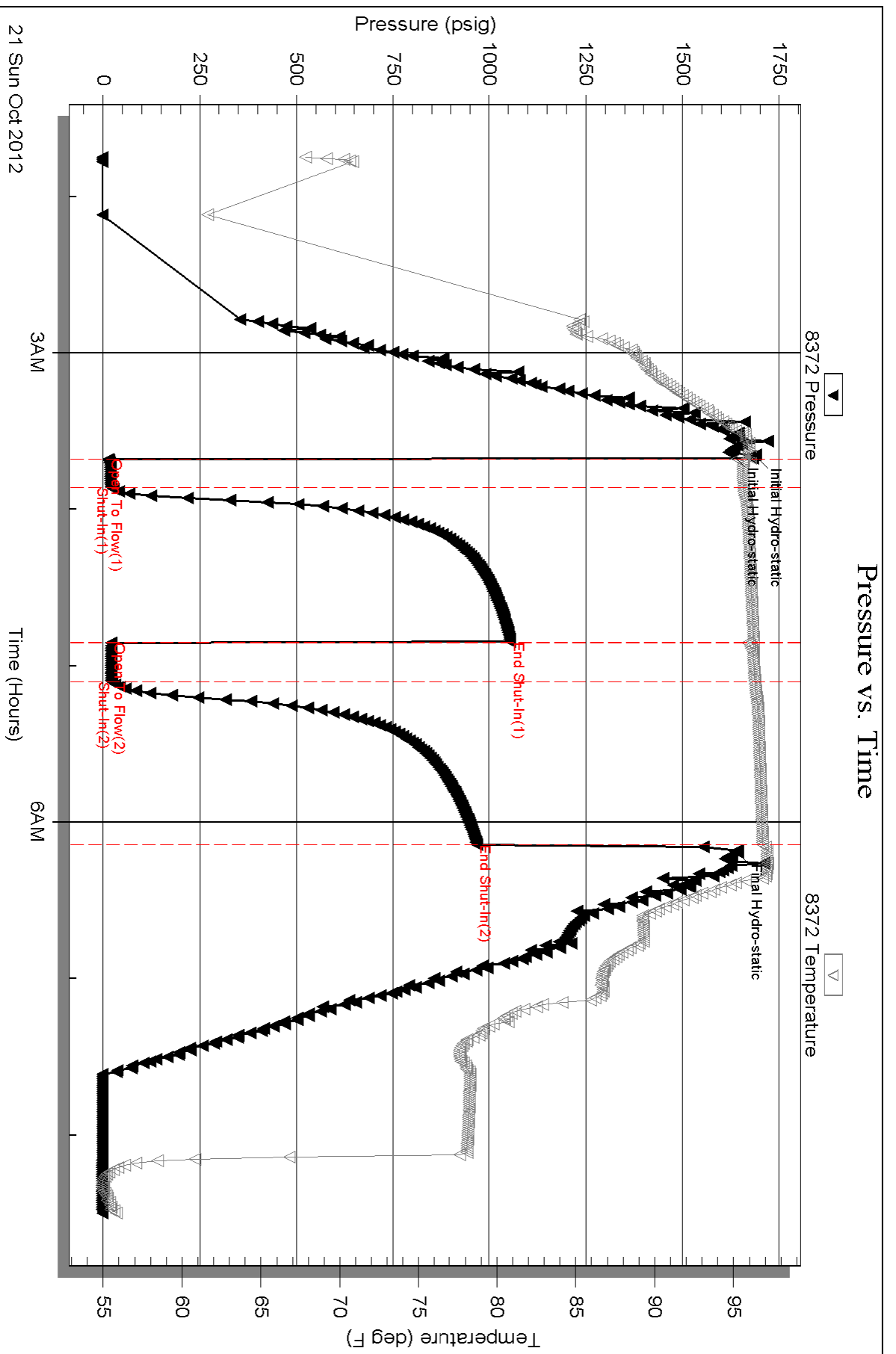
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data- o=tr m=3000ml press=30lbs





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

Well Name: Hopkins-Funk 1-32
 Location: Sec. 32-15S-15W Russell County, Kansas
 License Number: 15-167-23830-0000
 Spud Date: Oct. 15, 2012
 Surface Coordinates: 1240 FSL/ 145 FWL
 Region: WILDCAT
 Drilling Completed: Oct. 21, 2012

Bottom Hole Coordinates:
 Ground Elevation (ft): 1930' K.B. Elevation (ft): 1940'
 Logged Interval (ft): 2850' To: 3600' Total Depth (ft): 3600'
 Formation:
 Type of Drilling Fluid:

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: Aaron Suelter
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla . 73945
 Off. 888-543-8378 Cell: 620-600-0777



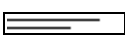

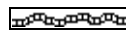



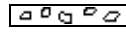



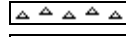



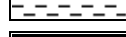
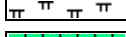

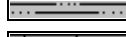



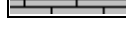

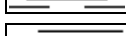


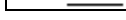

DST's Report

DST#1 3220'-3270' 10 60 30 120
 IF- 1" BLOW IN 3 MIN, 2" IN 10 MIN/ ISI- NO RETURN/ FF- 1 1/2" BLOW/ FSI- NO RETURN
 IH- 1564, FH-1531/ IF- 19 TO 31/ FF- 28 TO 44/ ISI- 478, FSI- 477
 RECOVERY- 20' MW 80% WATER, 20% MUD
 SAMPLER- 600 ML MUD, 2400 ML WATER

DST's Report

DST#2 3400'-3435' 10 60 15 60
 IF- WEAK SURFACE BLOW/ ISI- NO RETURN/ FF- NO BLOW/ FSI- NO RETURN
 IH- 1686, FH- 1636/ IF- 14 TO 21/ FF- 19 TO 22/ ISI- 1055, FSI- 968
 RECOVERY- 7' SLIGHTLY OIL SPOTTED MUD
 SAMPLER- 3000 ML MUD

ROCK TYPES

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

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brefracg
- 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
- Bryzoa
- 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

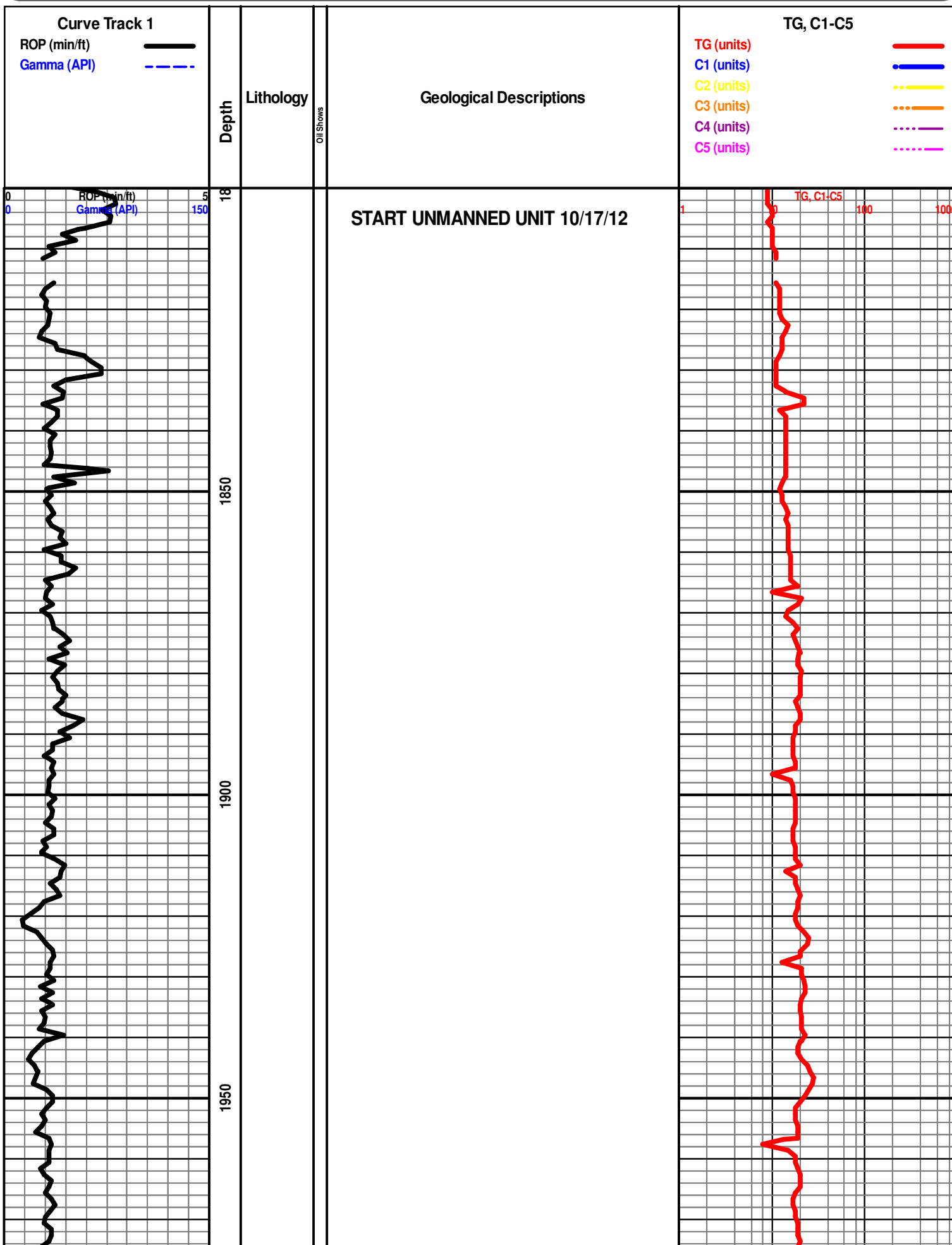
- Even
- Spotted
- Ques
- Dead
- Gas show

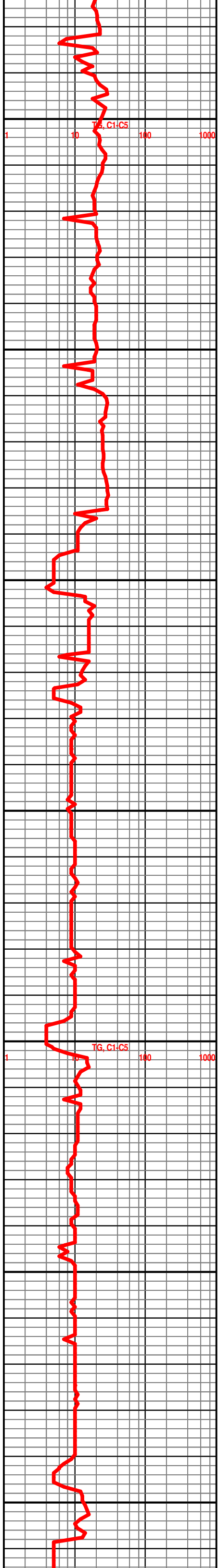
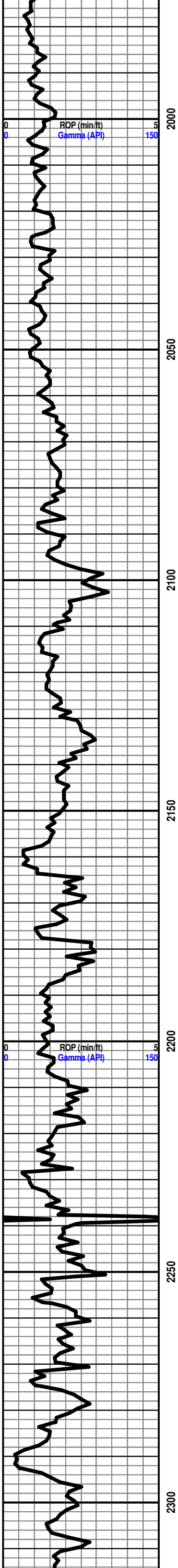
INTERVALS

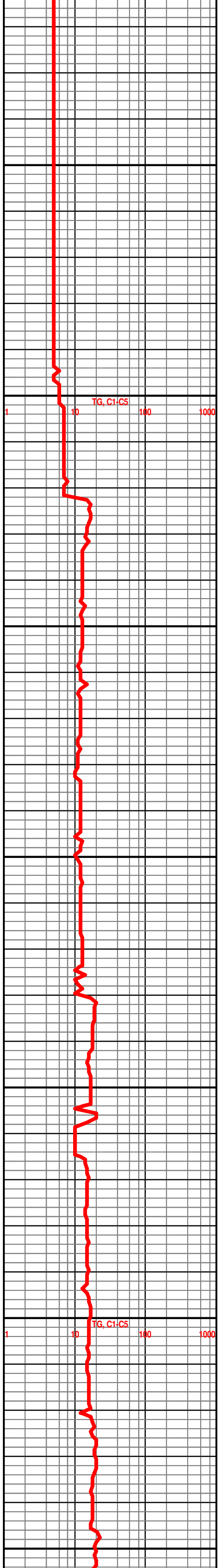
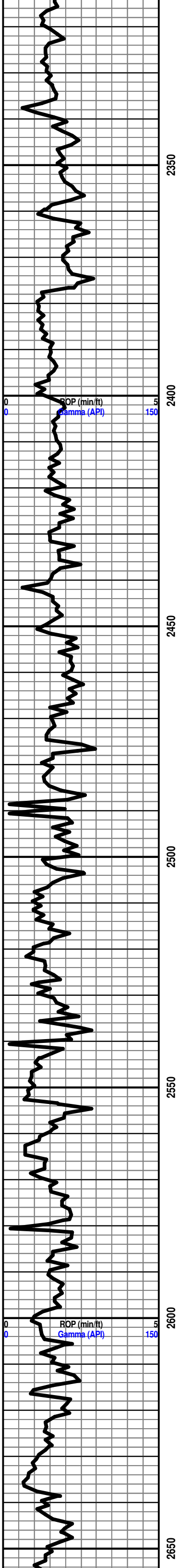
- Core
- Dst
- Dst

EVENTS

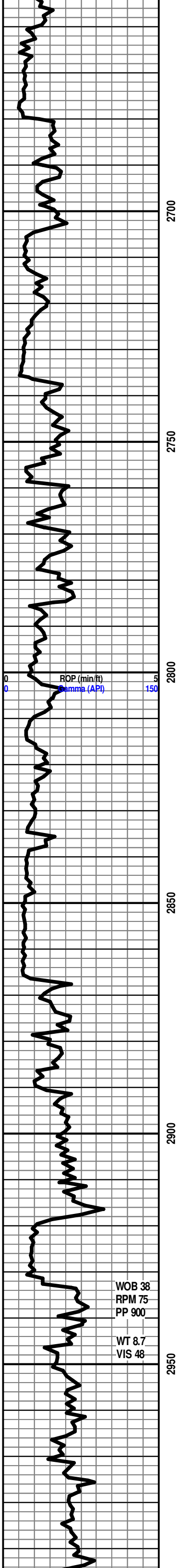
- Rft
- Sidewall







BRS 2680' -740'



2700

2750

2800

2850

2900

2950

WOB 38
RPM 75
PP 900

WT 8.7
VIS 48

START 24 HOUR MANNED UNIT 10/18/12

SH- GRN BRWN RED TO GY, FRM BLKY, SMTH TO SLTY TXT

HOWARD 2866' -926'

LS- LT TN TO TN, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S-SUCRO, SCAT IMBD FOSS FRG THRU, IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S-SUCRO IP, SCAT IMBD FOSS FRG IP, TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, S-CHLKY IP, ABDT IMBD FOSS FRG THRU, SCAT IMBD CALC XLS IP, TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

SEVERY 2918' -978'

SH- GY, FRM BLKY, SMTH TXT

TOPEKA 2932' -992'

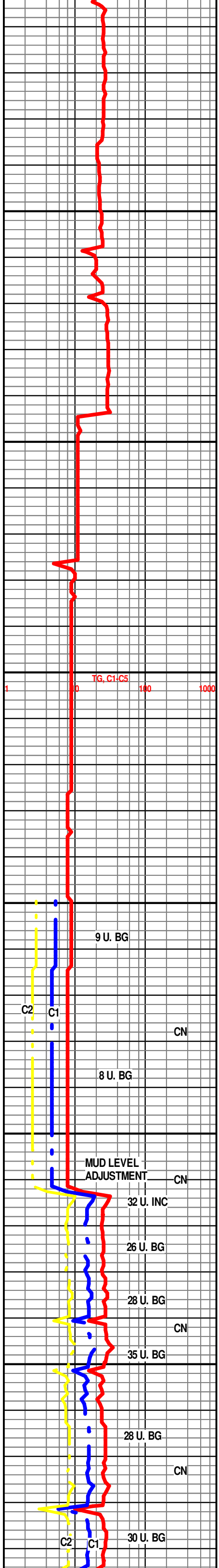
LS- LT GY TO TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, TR SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- TN TO LT GY, HD DNS TO BRIT IP, F XLN SUCRO MTRX, SCAT IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, TR IMBD DISS PYR IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, SLI TR IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO GY, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, SCAT IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT, F XLN CHLKY MTRX, S-SUCRO IP, ABDT IMBD FOSS FRG THRU, NO VIS FLO,



1 0 100 1000

9 U. BG

C2 C1

CN

8 U. BG

MUD LEVEL ADJUSTMENT CN

32 U. INC

26 U. BG

28 U. BG

CN

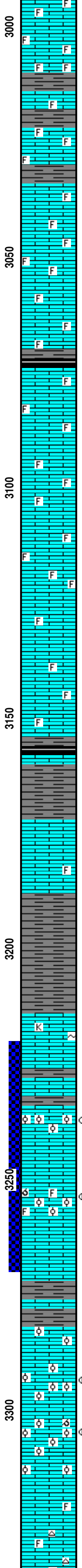
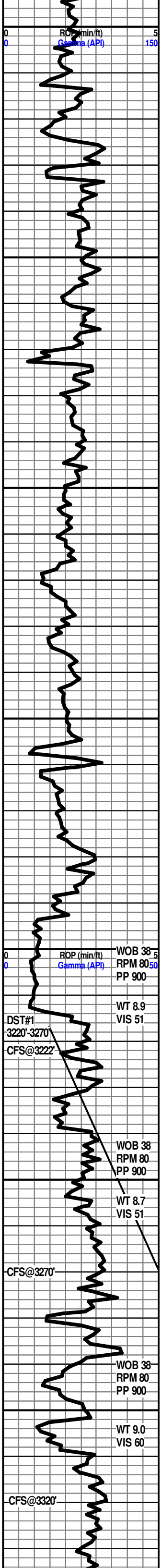
35 U. BG

28 U. BG

CN

30 U. BG

C2 C1



NO VIS POR, NO VIS SHOW

LS- GY LT TN TO TN, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY, ABDT IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

LS- OFF WHT TO TN, HD DNS TO BRIT IP, F XLN RE-XLN MTRX, S-CHLKY IP, IMBD CALC XLS THRU, TR SCAT IMBD FOSS FRG IP, TR FREE CALC XLS IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LE COMPTON 3033' -1093'

LS- LT TN TO TN, HD DNS TO BRIT IP, F XLN RE XLN MTRX, S-SUCRO, SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY IP, SCAT IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, SCAT IMBD FOSS FRG THRU, TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- BLCK, SFT, CARB

LS- CRM TO LT TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, SCAT IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY IP, IMBD FOSS FRG THRU, TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, F XLN SUCRO MTRX, IMBD FOSS FRG THRU, TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, SCAT IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, HD DNS TO BRIT, F XLN CHLKY MTRX, TR IMBD FOSS FRG IP, TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY, SLI TR IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO LT TN, HD DNS TO BRIT, F XLN SUCRO MTRX, SCAT IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

HEEBNER 3156' -1216'

SH- BLCK, SFT, CARB

SH- GRN GY TO DK GY, FRM BLKY, SMTH TXT

LS- OFF WHT TO CRM, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, TR IMBD FOSS FRG IP, TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

DOUGLAS 3188' -1248'

SH- GRN BRWN TO GY, FRM BLKY, SMTH TXT

LANSING 3214' -1274

LS- OFF WHT TO CRM, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, TR S-CHLKY IP, TR IMBD CALC XLS IP, TR IMBD KAOL OR GLAUC IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GRN GY, FRM SPLNTY, SMTH TXT

LANSING "C" 3233' -1293'

3236'-3237' LS- OFF WHT TO CRM W/ LT TN OIL STN IN 3%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD OOL THRU, TR SFT WHT CHLK IN TRAY, TR PYR IN TRAY, NO VIS FLO, V/PR INTRO OOL POR IN 5%, NO FLSH CUT, V/V/ WK SLW STRM IN 3%

3252'-3254' LS- CRM TO LT TN W/ DK TN OIL STN IN 40%, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD OOL THRU, TR IMBD FOSS FRG IP, TR OOLMLD IP, DUL YEL GLD FLO IN 50%, PR TO FR INTR OOL POR IN 5%, FR OOLMLD POR IN 3%, FR TO GD VUG POR IN 3%, FR TO GD FLSH CUT IN 50%, FR TO GD SLW STRM IN 60%, TN LCH ON DISH, GD OIL ODOR

SH- BRWN TO GY, FRM BLKY, SMTH TO SLTY TXT

LANSING "F" 3281' -1341'

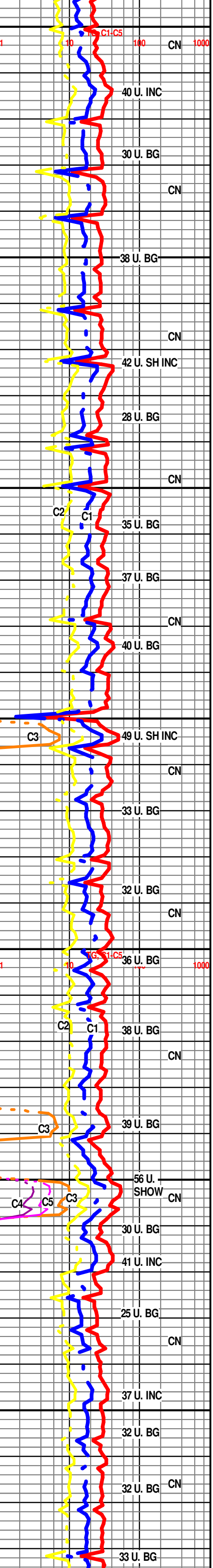
LS- CRM TO LT TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, IMBD OOL THRU, TR IMBD DISS PYR IP, NO VIS FLO, TR V/PR TO PR INTR OOL POR IN 3%, NO VIS CUT OR SHOW

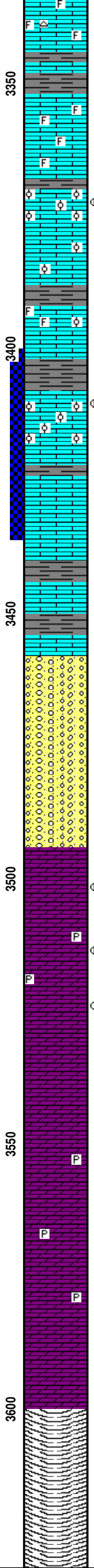
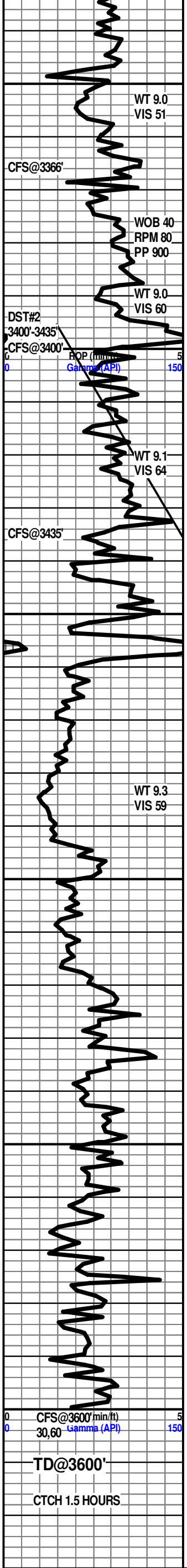
3293'-3295' LS- CRM TO LT TN W/ TN OIL STN IN 40%, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, ABDT IMBD OOL THRU, TR IMBD CALC XLS IP, DUL YEL GLD FLO IN 35%, BRT YEL GLD FLO IN 1% PR INTR OOL POR IN 5%, FR FLSH CUT IN 40%, FR TO GD SLW STRM IN 40%, LT TN LCH ON DISH

3303'-3304' LS- OFF WHT TO CRM W/ TN OIL STN IN 25%, HD DNS TO BRIT, F XLN SUCRO MTRX, ABDT IMBD OOL THRU, TR OOLMLD IP, ABDT SFT WHT CHLK IN TRAY, SLI TR CHRT IN TRAY, DUL YEL GLD FLO IN 20%, PR INTR OOL POR IN 3%, PR OOLMLD POR IN 1%, PR VUG POR IN 2%, FR FLSH CUT IN 30%, FR TO GD SLW STRM IN 30%

LS- LT TN TO TN, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY IP, TR SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT, V/F TO F XLN MTRX,





S-CHLKY IP, SCAT IMBD FOSS FRG THRU, TR WHT CHRT IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GRN BRWN GY, FRM SPLNTY, SLTY TXT
LANSING "H" 3352' -1412'

LS- CRM TO LT TN, FRM TO BRIT, F XLN CHLKY MTRX, SLI TR IMBD FOSS FRG IP, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GRN TO GY, SFT GMMY

3371'-3375' LS- OFF WHT TO LT TN W/ LT TN OIL STN IN 10%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD OOL THRU, ABDT SFT WHT CHLK IN TRAY, BRT YEL GLD FLO IN 10%, V/PR TO PR INTR OOL POR IN 5%, PR MICRO VUG POR IN 2%, PR FLSH CUT IN 15%, FR SLW STRM IN 20%, V/ LT TN LCH ON DISH

SH- BRWN TO GY, FRM BLKY, SLTY TXT

LS- CRM TO LT TN, HD DNS, V/F TO F XLN MTRX, SCAT IMBD FOSS FRG THRU, TR SCAT IMBD OOL IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GRN RED TO GY, FRM BLKY, SMTH TXT

3409'-3411' LS- OFF WHT TO LT TN W/ LT TN TO TN OIL STN IN 40%, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, ABDT IMBD OOL THRU, SFT WHT CHLK IN TRAY DUL YEL GLD FLO IN 40%, BRT YEL GLD FLO IN 5%, PR INTR OOL POR IN 3%, PR TO FR MICRO VUG POR IN 3%, FR TO GD VUG POR IN 3%, WK FLSH CUT IN 40%, FR SLW STRM IN 40%, LT TN LCH ON DISH

LS- OFF WHT TO LT TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, SCAT IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

BKC 3440' -1500'

SH- GRN GY TO DK GY, FRM BLKY, SMTH TO SLTY TXT

SH- GRN BRWN TO GY, FRM BLKY TO SFT GMMY

LS- LT TN, HD DNS TO BRIT IP, V/F TO FN XLN MTRX, TR IMBD WHT CHRT IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

CONG- LS- OFF WHT TO LT TN, HD DNS, F XLN MTRX, ABDT IMBD OOL IP, TR IMBD FOSS FRG IP, SH- RED BRWN GRN TO GY, FRM BLKY TO SFT GMMY, SMTH TO SLTY TXT, CHRT- OFF WHT YEL ORNG TO RED

ARBUCKLE 3494' -1563'

3500'-3501' DOLO- OFF WHT TO CRM W/ TN OIL STN IN 20%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, ABDT IMBD F TO MD S-ANG TO ANG DOLO GRNS THRU, DUL YEL GLD FLO IN 10%, BRT YEL GLD FLO IN 10%, PR TO FR INTR GRN POR IN 10%, FR FLSH CUT IN 20%, FR TO GD SLW STRM IN 20%, LT TN LCH ON DISH

3514'-3516' DOLO- OFF WHT TO CRM W/ TN OIL STN IN 25%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, ABDT IMBD F TO CRS S-ANG TO ANG DOLO GRNS THRU, DUL YEL GLD FLO IN 20%, BRT YEL GLD FLO IN 5%, FR TO GD INTR GRN POR IN 15%, WK FLSH CUT IN 25%, FR GASSY SLW STRM IN 25%, V/LT TN LCH ON DISH

3524'-3525' DOLO - OFF WHT TO CRM W/ LT TN OIL STN IN 10%, HD DNS, F XLN SUCRO MTRX, ABDT IMBD F TO MD S-ANG TO ANG DOLO GRNS THRU, TR IMBD DISS PYR IP, DUL YEL GLD FLO IN 15%, PR TO FR INTR GRN POR IN 10%, WK FLSH CUT IN 10%, PR TO FR SLW STRM IN 10%, NO LCH ON DISH

DOLO- OFF WHT TO LT TN, HD DNS, F XLN SUCRO MTRX, ABDT IMBD F TO MD S-ANG TO ANG DOLO GRNS THRU, NO VIS FLO, PR TO FR INTR GRN POR IN 5%, NO VIS SHOW

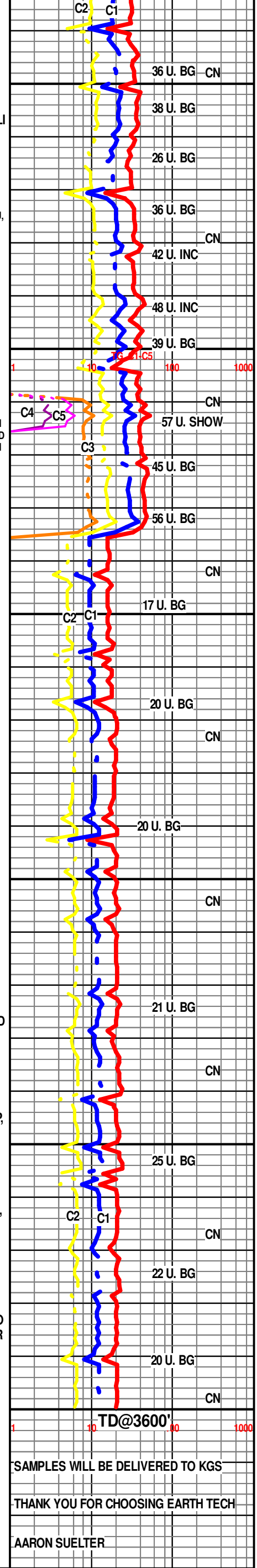
DOLO- OFF WHT TO LT TN, HD DNS TO BRIT IP, F XLN SUCRO MTRX, ABDT IMBD F TO MD S-ANG TO ANG DOLO GRNS THRU, TR IMBD DISS PYR IP, NO VIS FLO, PR INTR GRN POR IN 5%, NO VIS SHOW

R.T.D. @ 7:30 PM 10/21/12

DROP SURVEY

TOFL @ 9:00 PM

WEATHERFORD/LIBERAL



SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

AARON SUELTER