



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1106405
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
-----------------------------------	-----------------	---

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: _____



1106405

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	KOIRTH 1-35
Doc ID	1106405

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

January 02, 2013

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

Re: ACO1
API 15-051-26377-00-00
KOIRTH 1-35
NE/4 Sec.35-14S-18W
Ellis 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: 9/18/2012
 Invoice # 741

P.O.#:
 Due Date: 10/18/2012
 Division: Russell

Invoice

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

RECEIVED

SEP 24 2012

SAMUEL GARY JR.
 & ASSOCIATES, INC.

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	
Description	

Reference:
 KOIRTH 1-35

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	450	\$ 5,960.57	Yes				
8 5/8" Basket	3	\$ 1,029.26	Yes				
Bulk Truck Mat-Material Service Charge	475	\$ 1,031.43	No				
Calcium Chloride	16	\$ 827.92	Yes				
8 5/8" Centralizer	3	\$ 208.46	Yes				
Premium Gel (Bentonite)	9	\$ 159.08	Yes				
8 5/8" Top Rubber Plug	1	\$ 115.09	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 97.71	Yes				
Pump Truck Mileage-Job to Nearest Camp	8	\$ 86.68	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	8	\$ 50.72	No				

Invoice Terms:

Net 30

SubTotal: \$ 10,558.31
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (1,583.75)

SubTotal for Taxable Items:	\$ 7,138.37
SubTotal for Non-Taxable Items:	\$ 1,836.19
Total:	\$ 8,974.56
Tax:	\$ 449.72

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 9,424.28
Applied Payments:
Balance Due: \$ 9,424.28

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

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. 741

Date	9-13-12	Sec.	35	Twp.	14	Range	18	County	Ellis	State	KS	On Location		Finish	12/15
------	---------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	-------

Lease **NORTH** Well No. **1-35** Location **Comes park way 4 1/2 S W into**

Contractor **Discoby Png 2** Owner

Type Job **Surface** 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 **1 7/8** T.D. **1060** Charge To **Sam Garry**

Csg. **8 5/8** Depth **1060** To **Sam Garry Jr & Assoc.**

Tbg. Size Depth Street **Sam Garry Jr & Assoc.**

Tool Depth City State

Cement Left in Csg. **41.20** Shoe Joint **41.22** The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line Displace **64.3/4** Cement Amount Ordered **450 3% CC 2% gel**

EQUIPMENT **1/4 Flow**

Pumptrk **16** No. Cementer **Matt** Common **450**

Bulktrk **13** No. Driver **Finnis** Poz. Mix

Bulktrk **pw** No. Driver **Levi** Gel. **9**

JOB SERVICES & REMARKS Calcium **16**

Remarks: Hulls

Rat Hole Salt

Mouse Hole Flowseal **112#**

Centralizers **1, 11, 21** Kol-Seal

Baskets **2, 12, 22** Mud CLR 48

D/V or Port Collar CFL-117 or CD110 CAF 38

Sand

Cement did circulate Handling **475**

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer **3 8 5/8**

Baskets **3 8 5/8**

AFU Inserts **1 8 5/8 plug**

Float Shoe

Latch Down **Back plate**

Pumptrk Charge **Long Surface**

Mileage **8**

Signature  Tax Discount Total Charge



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: 9/21/2012
 Invoice # 744

P.O.#:
 Due Date: 10/21/2012
 Division: Russell

Invoice

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

RECEIVED

SEP 27 2012

SAMUEL GARY JR.
 & ASSOCIATES, INC.

Reference:
 KOIRTH 1-35

Description of Work:
 PLUG JOB

DRLG COMP W/O LOE GG

Account	8200-145
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,239.23	Yes				
Common-Class A	117	\$ 1,592.94	Yes				
Bulk Truck Matl-Material Service Charge	204	\$ 442.97	Yes				
POZ Mix-Standard	78	\$ 389.55	Yes				
Premium Gel (Bentonite)	7	\$ 123.73	Yes				
Pump Truck Mileage-Job to Nearest Camp	8	\$ 86.68	Yes				
Dry Hole Plug	1	\$ 60.80	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	8	\$ 50.72	Yes				

Invoice Terms:

Net 30

SubTotal:	\$	3,986.63
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(598.00)
SubTotal for Taxable Items:	\$	3,388.64
SubTotal for Non-Taxable Items:	\$	-

6.30% Ellis County Sales Tax

Thank You For Your Business!

Total:	\$	3,388.64
Tax:	\$	213.48
Amount Due:	\$	3,602.12
Applied Payments:		
Balance Due:	\$	3,602.12

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

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. 744

Date	9-18-12	Sec.	35	Twp.	14	Range	18	County	ELLIS	State	KS	On Location		Finish	11.45pm
------	---------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	---------

Lease	1101 Rth	Well No.	1-35	Location	Comchs parkway 4.55 WHTO
-------	----------	----------	------	----------	--------------------------

Contractor	Discory Rig 2	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	plug	Hole Size	T.D. 3730
Csg.		Depth	
Tbg. Size		Depth	
Tool		Depth	
Cement Left in Csg.		Shoe Joint	
Meas Line		Displace	
		Charge To	Sam Gary
		Street	Sam Gary Jr & Assoc.
		City	
		State	
		The above was done to satisfaction and supervision of owner agent or contractor.	
		Cement Amount Ordered	195 gal 490 gal

EQUIPMENT

Pumptrk #5 No.	Cementer			
	Helper	Mark		
Bulktrk #13 No.	Driver	Brett		
	Driver			
Bulktrk #4 No.	Driver	Levi		
	Driver			

JOB SERVICES & REMARKS

Remarks:		Hulls	
Rat Hole	30 SKS	Salt	
Mouse Hole	15 SKS	Flowseal	50PP
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	
		Mileage	

1st @ 3608 25 SKS
2nd @ 1250 25 SKS
3rd @ 1100 40 SKS
4th @ 525 50 SKS
5th @ 40 10 SKS

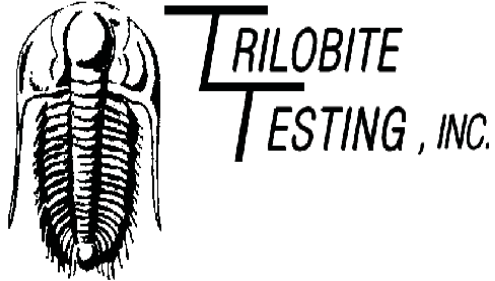
FLOAT EQUIPMENT

	Guide Shoe	
	Centralizer	
	Baskets	
	AFU Inserts	
	Float Shoe	
	Latch Down	

Pumptrk Charge plug
Mileage 8

Tax
Discount
Total Charge

X Signature



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Associates, Inc.**

1515 Wynkoop Ste. #700
Denver, CO 80202

ATTN: Tom Fertal

Koirth #1-35

35-14s-18w Ellis,KS

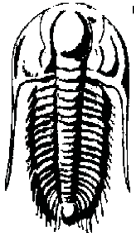
Start Date: 2012.09.16 @ 16:20:15

End Date: 2012.09.16 @ 22:25:45

Job Ticket #: 47929 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.09.27 @ 13:37:04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

35-14s-18w Ellis,KS

1515 Wynkoop Ste. #700
Denver, CO 80202

Koirth #1-35

Job Ticket: 47929

DST#: 1

ATTN: Tom Fertal

Test Start: 2012.09.16 @ 16:20:15

GENERAL INFORMATION:

Formation: **LKC "C&D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:53:35

Time Test Ended: 22:25:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3313.00 ft (KB) To 3363.00 ft (KB) (TVD)

Reference Elevations: 2030.00 ft (KB)

Total Depth: 3363.00 ft (KB) (TVD)

2022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 25.48 psig @ 3317.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.16

End Date: 2012.09.16

Last Calib.: 2012.09.16

Start Time: 16:30:15

End Time: 22:25:45

Time On Btm: 2012.09.16 @ 17:53:25

Time Off Btm: 2012.09.16 @ 20:40:15

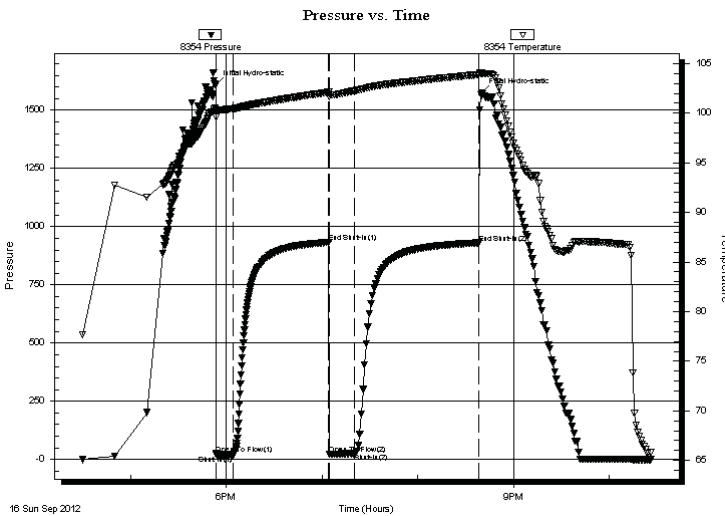
TEST COMMENT: IF-Very weak surface blow.

ISI-No Return.

FF-No Blow.

FSI-No Return. Flow times- 10-60-15-75

PRESSURE SUMMARY



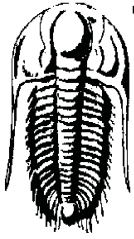
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1610.11	100.58	Initial Hydro-static
1	24.52	99.59	Open To Flow (1)
11	19.90	100.46	Shut-In(1)
71	932.10	102.11	End Shut-In(1)
72	22.97	101.65	Open To Flow (2)
87	25.48	102.26	Shut-In(2)
165	930.20	103.90	End Shut-In(2)
167	1575.79	104.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%Mud	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates, Inc.

35-14s-18w Ellis,KS

1515 Wynkoop Ste. #700
Denver, CO 80202

Koirth #1-35

Job Ticket: 47929

DST#: 1

ATTN: Tom Fertal

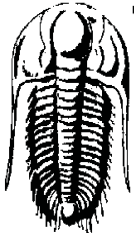
Test Start: 2012.09.16 @ 16:20:15

Tool Information

Drill Pipe:	Length: 3257.00 ft	Diameter: 3.80 inches	Volume: 45.69 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 45.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3313.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments: Sampler- 2000ML- 100%Mud				
Pressure- 200#				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8653	Fluid	3283.00	
Change Over Sub	1.00			3284.00	
Shut In Tool	5.00			3289.00	
Sampler	2.00			3291.00	
Hydraulic tool	5.00			3296.00	
Jars	5.00			3301.00	
Safety Joint	3.00			3304.00	
Packer	5.00			3309.00	30.00 Bottom Of Top Packer
Packer	4.00			3313.00	
Stubb	1.00			3314.00	
Perforations	3.00			3317.00	
Recorder	0.00	8354	Inside	3317.00	
Recorder	0.00	8520	Outside	3317.00	
Change Over Sub	1.00			3318.00	
Drill Pipe	31.00			3349.00	
Change Over Sub	1.00			3350.00	
Perforations	10.00			3360.00	
Bullnose	3.00			3363.00	50.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

35-14s-18w Ellis,KS

1515 Wynkoop Ste. #700
Denver, CO 80202

Koirth #1-35

Job Ticket: 47929

DST#: 1

ATTN: Tom Fertal

Test Start: 2012.09.16 @ 16:20:15

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100%Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

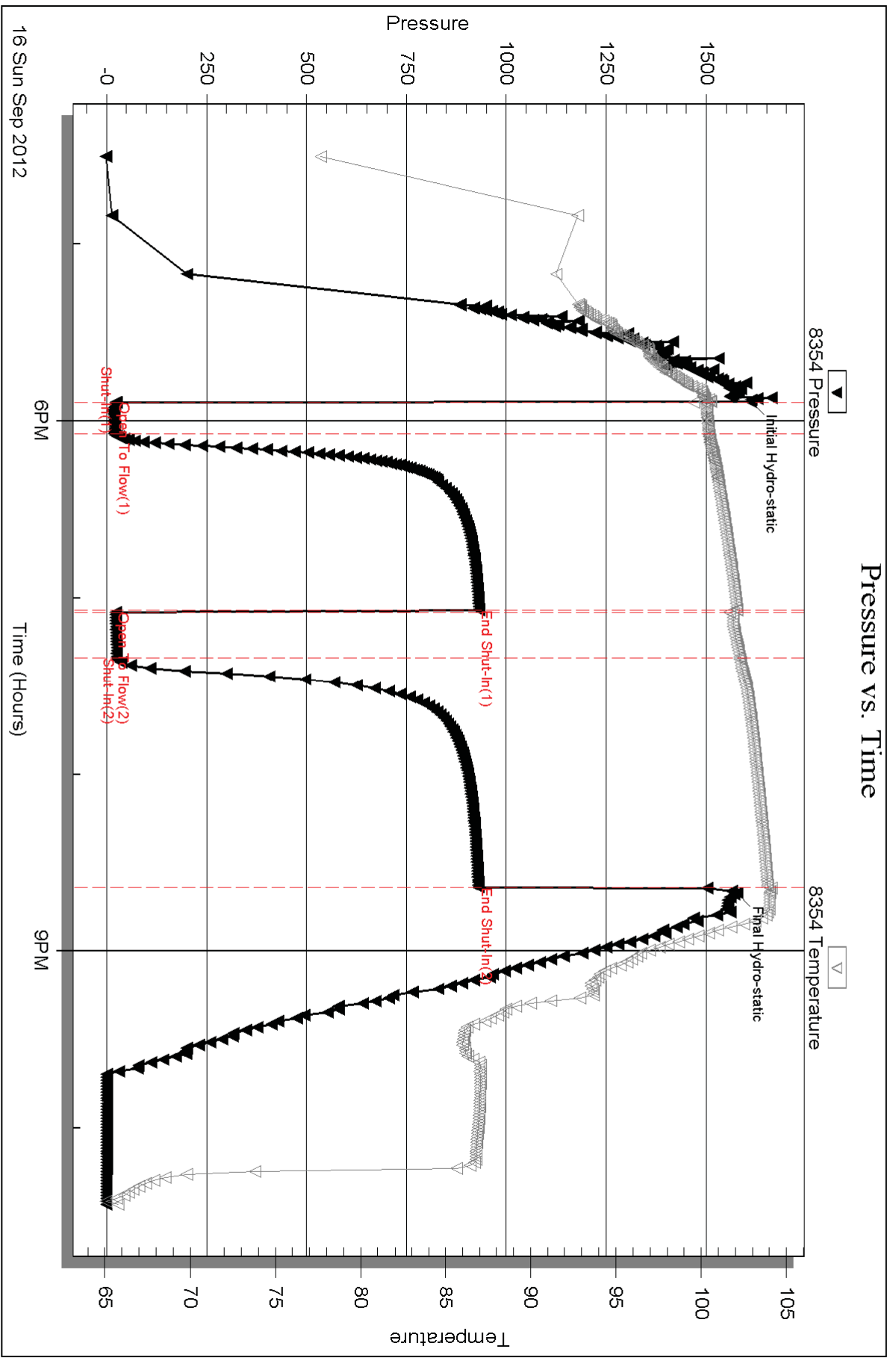
Serial #: 8354

Inside

Samuel Gary Jr. & Associates, Inc.

Koirth #1-35

DST Test Number: 1



Trilobe Testing, Inc

Ref. No: 47929

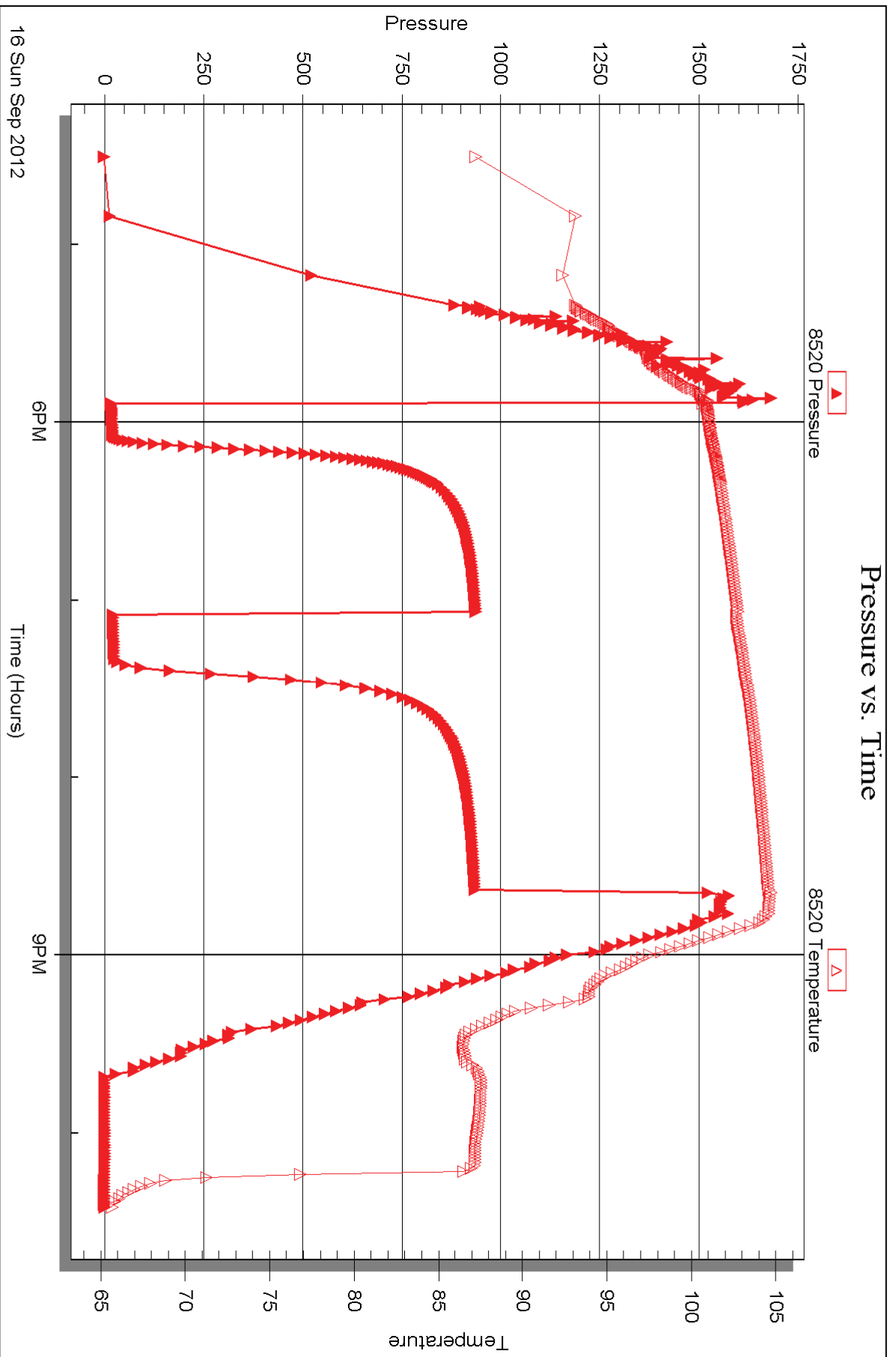
Printed: 2012.09.27 @ 13:37:09

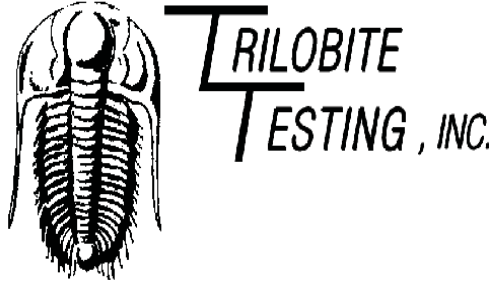
Serial #: 8520

Outside Samuel Gary Jr. & Associates, Inc.

Koirth #1-35

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Associates, Inc.**

1515 Wynkoop Ste. #700
Denver, CO 80202

ATTN: Tom Fertal

Koirth #1-35

35-14s-18w Ellis,KS

Start Date: 2012.09.17 @ 14:30:15

End Date: 2012.09.17 @ 21:48:45

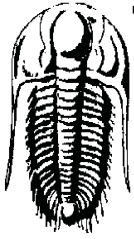
Job Ticket #: 4703- DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.09.27 @ 13:34:26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

35-14s-18w Ellis,KS

1515 Wynkoop Ste. #700
Denver, CO 80202

Koirth #1-35

Job Ticket: 4703-

DST#: 2

ATTN: Tom Fertal

Test Start: 2012.09.17 @ 14:30:15

GENERAL INFORMATION:

Formation: **LKC "J&K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:58:25

Time Test Ended: 21:48:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3470.00 ft (KB) To 3518.00 ft (KB) (TVD)

Reference Elevations: 2030.00 ft (KB)

Total Depth: 3518.00 ft (KB) (TVD)

2022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 47.45 psig @ 3474.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.17 End Date: 2012.09.17

Last Calib.: 2012.09.17

Start Time: 14:40:15 End Time: 21:48:45

Time On Btm: 2012.09.17 @ 15:58:15

Time Off Btm: 2012.09.17 @ 20:05:15

TEST COMMENT: IF-Weak building blow . Built to 1&1/2 inches.

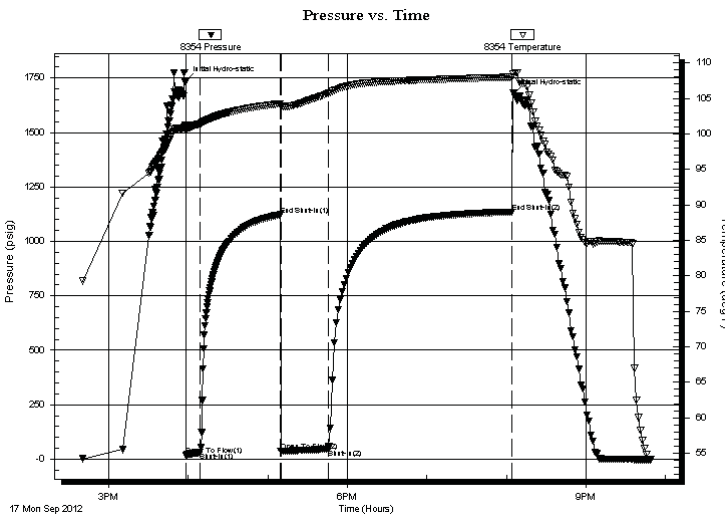
ISI-No Return.

FF-Weak building blow . Built to 2&1/4 inches.

FSI-No Return.

Flow Times-10-60-35-135

PRESSURE SUMMARY



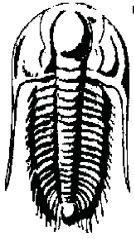
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1736.24	101.23	Initial Hydro-static
1	19.54	100.51	Open To Flow (1)
11	31.56	101.44	Shut-In(1)
71	1122.01	104.24	End Shut-In(1)
72	36.14	103.88	Open To Flow (2)
107	47.45	105.67	Shut-In(2)
246	1135.23	108.01	End Shut-In(2)
247	1679.35	108.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	50%Water/50%Mud	0.10
35.00	90%Water/10%Mud	0.39

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates, Inc.

35-14s-18w Ellis,KS

1515 Wynkoop Ste. #700
Denver, CO 80202

Koirth #1-35

Job Ticket: 4703-

DST#: 2

ATTN: Tom Fertal

Test Start: 2012.09.17 @ 14:30:15

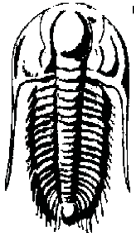
Tool Information

Drill Pipe:	Length: 3416.00 ft	Diameter: 3.80 inches	Volume: 47.92 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 48.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3470.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Recorder	0.00	8653	Fluid	3440.00	
Change Over Sub	1.00			3441.00	
Shut In Tool	5.00			3446.00	
Sampler	2.00			3448.00	
Hydraulic tool	5.00			3453.00	
Jars	5.00			3458.00	
Safety Joint	3.00			3461.00	
Packer	5.00			3466.00	30.00 Bottom Of Top Packer
Packer	4.00			3470.00	
Stubb	1.00			3471.00	
Perforations	3.00			3474.00	
Recorder	0.00	8354	Inside	3474.00	
Recorder	0.00	8520	Outside	3474.00	
Change Over Sub	1.00			3475.00	
Drill Pipe	31.00			3506.00	
Change Over Sub	1.00			3507.00	
Perforations	8.00			3515.00	
Bullnose	3.00			3518.00	48.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

35-14s-18w Ellis,KS

1515 Wynkoop Ste. #700
Denver, CO 80202

Koirth #1-35

Job Ticket: 4703-

DST#: 2

ATTN: Tom Fertal

Test Start: 2012.09.17 @ 14:30:15

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:

20500 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: 0.45 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	50%Water/50%Mud	0.098
35.00	90%Water/10%Mud	0.391

Total Length: 55.00 ft Total Volume: 0.489 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

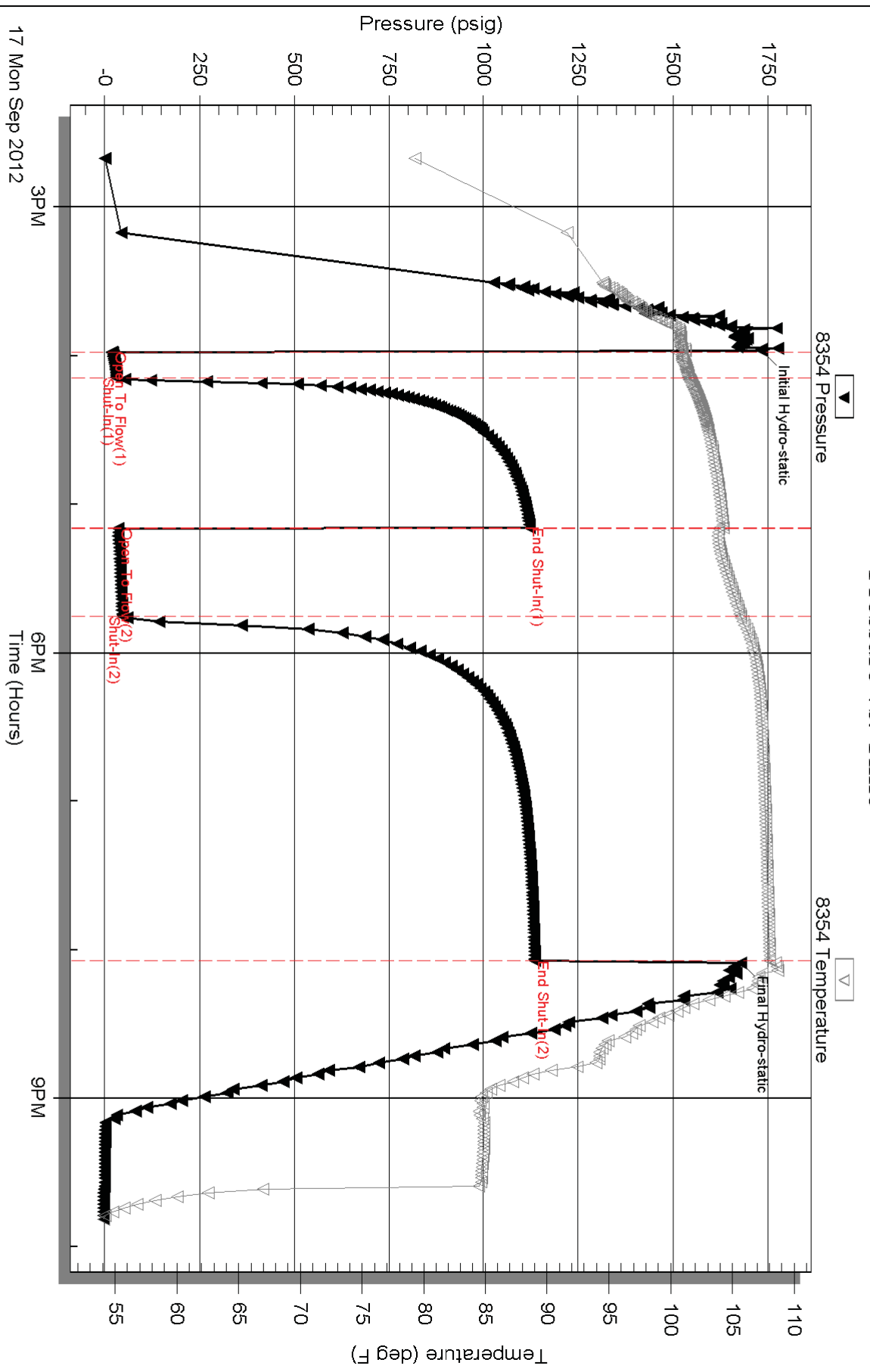
Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-2000ML total. 1600 ML Water. 400ML Mud.

Pressure-125# Chlorides- .456 @ 52 = 20000

Pressure vs. Time

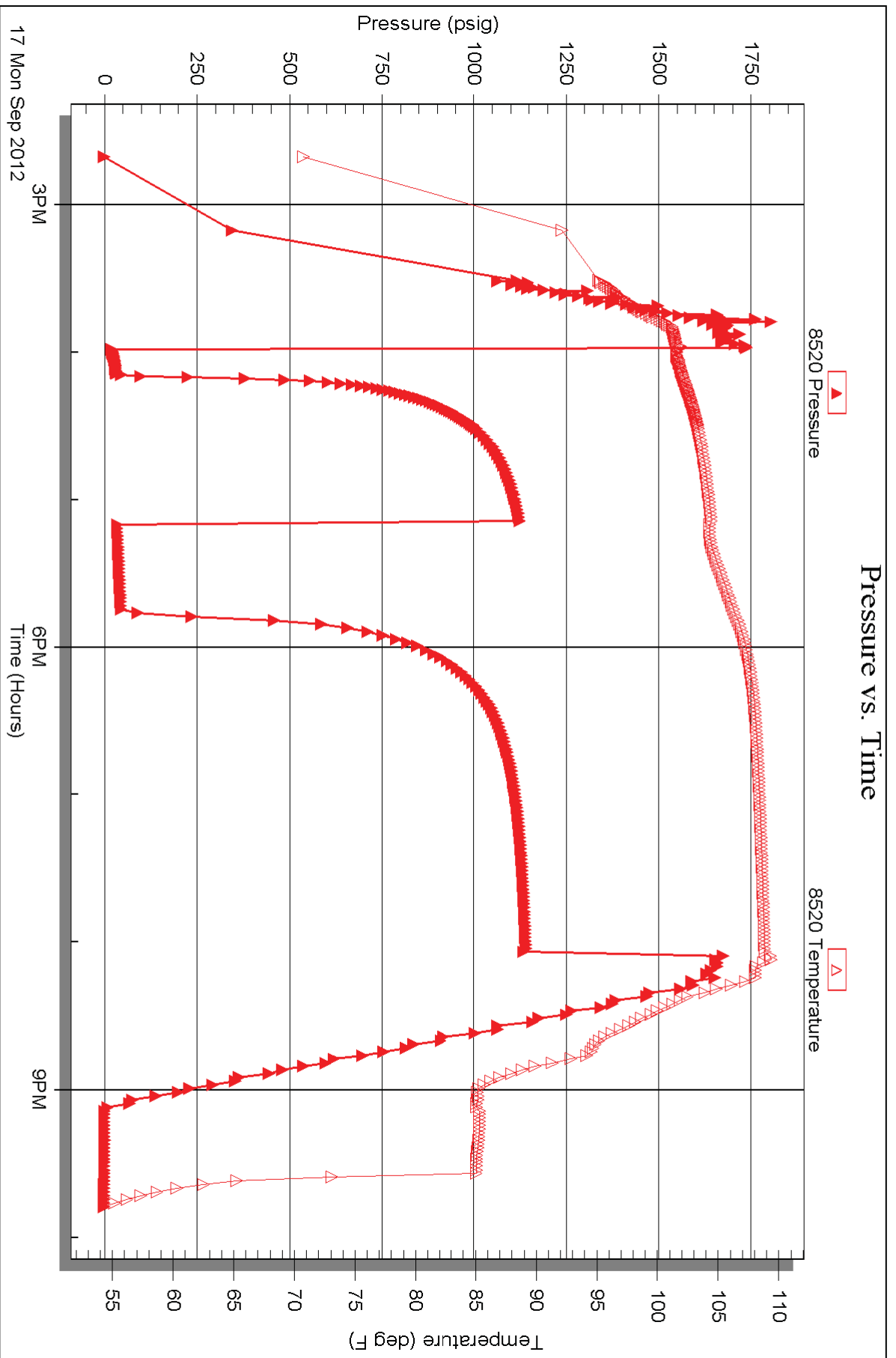


Serial #: 8520

Outside Samuel Gary Jr. & Associates, Inc.

Koirth #1-35

DST Test Number: 2



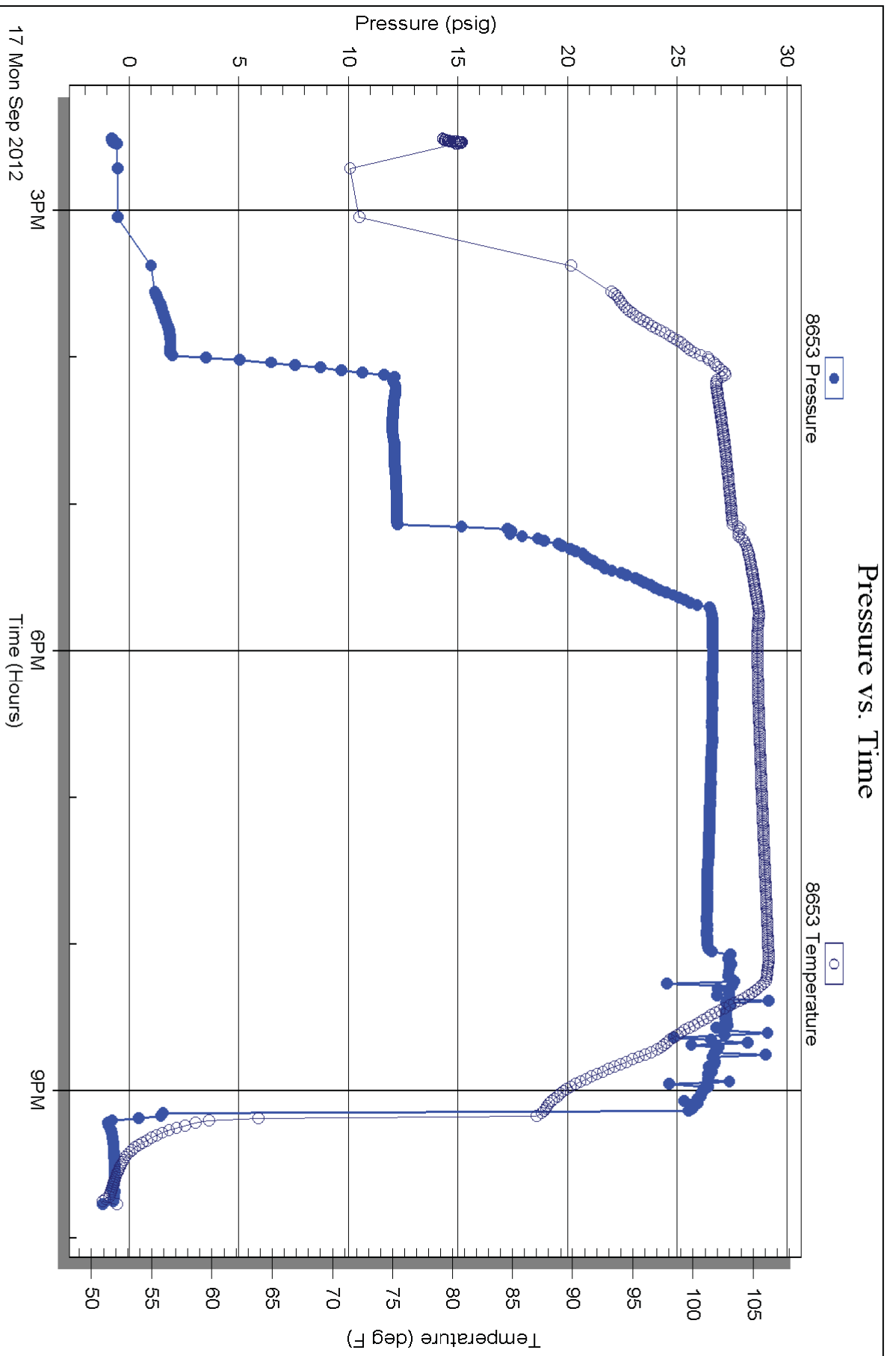
Serial #: 8653

Fluid

Samuel Gary Jr. & Associates, Inc.

Koith #1-35

DST Test Number: 2





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

Well Name: KOIRTH # 1-35
Location: Sec 35 14s 18w, Ellis County,kansas
License Number: 15-051-26377-0000
Spud Date: Sept. 12,2012
Surface Coordinates: 1625' Fnl & 900' Fel
Region: Wildcat
Drilling Completed: Sept.18,2012

Bottom Hole
Coordinates:
Ground Elevation (ft): 2022' K.B. Elevation (ft): 2030'
Logged Interval (ft): 1800' To: 3730' Total Depth (ft): 3730'
Formation: Lansing
Type of Drilling Fluid: Natural Chemical

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.co

OPERATOR

Company: Samuel Gary Jr.& Assoc.
Address: 1515 Wynkoop St., #700
Denver, Co. 80202
Geo: Chris Mitchell

GEOLOGIST

Name: Tim Hedrick
Company: Earth Tech OGL,Inc.
Address: PO Box 683 8918 5th St.
Hooker ,Okla. 73945 Great bend,Kansas 67530
888-543-8378 580-754-0062

DST#1

3313- 3363' 10 60 15 75
IF- WK SRFC BLO/ ISI- NB / FF- NB/ FSI-NB
IH- 1610, FH- 1575/ IF- 24 TO 19, FF- 22-25 / ISI-932, FSI-930
RECOVERED 10' TF- 10' DRILL MUD 100% MUD

DST#2



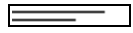

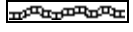



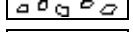

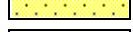
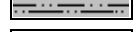
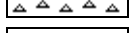


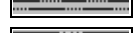
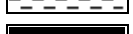
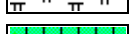

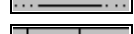



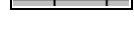
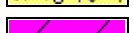
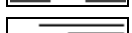




3470- 3518' 10 60 35 135

IF- BLT TO 11/2"/ ISI NB/ FF- BLT TO 2 1/4"/ FSI-NB























































































IH- 1736, FH-1679/ IF- 20 TO 32, FF-36 TO 47/ ISI- 1122, FSI- 1135, RECOVERED- 55' TF- 35' MW, 90%W., 10%M., 20' WM, 50% W., 50% M., BHT 108 DEG., RW .450@ 51 DEG. , CHL 20500

SAMPLER- 400 ML MUD, 1600 ML MUD, 125 PSI, 2000 ML TOTAL


























ROCK TYPES

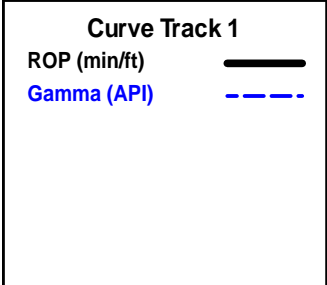
 Anhy	 Gyp	 Shgy	 Sandylms
 Bent	 Igne	 Slstst	 Shale
 Brec	 Lmst	 Ss	 Slststn
 Cht	 Meta	 Till	 Shlyslts
 Clyst	 Mrlst	 Carb sh	 Sltysh
 Coal	 Salt	 Dol	 Lms
 Congl	 Shale	 Dtd	
 Dol	 Shcol	 Gry sh	

ACCESSORIES

MINERAL	 Salt	 Fossil	 Clystn
 Anhy	 Sandy	 Gastro	 Dol
 Arggrn	 Silt	 Oolite	 Grysh
 Arg	 Sil	 Ostra	 Gryslt
 Bent	 Sulphur	 Pelec	 Lms
 Bit	 Tuff	 Pellet	 Sandylms
 Brecfrag	 Chlorite	 Pisolite	 Sh
 Calc	 Dol	 Plant	 Slststn
 Carb	 Sand	 Strom	
 Chtdk	 Slty	 Fuss	TEXTURE
 Chtlt	FOSSIL	 Oomold	 Boundst
 Dol	 Algae	STRINGER	 Chalky
 Feldspar	 Amph	 Anhy	 Cryxln
 Ferrpel	 Belm	 Arg	 Earthy
 Ferr	 Bioclst	 Bent	 Finexln
 Glau	 Brach	 Coal	 Grainst
 Gyp	 Bryozoa	 Dol	 Lithogr
 Hvymin	 Cephal	 Gyp	 Microxln
 Kaol	 Coral	 Ls	 Mudst
 Marl	 Crin	 Mrst	 Packst
 Minxl	 Echin	 Slststrg	 Wackest
 Nodule	 Fish	 Ssstrg	
 Phos	 Foram	 Carbsh	
 Pyr			

OTHER SYMBOLS

POROSITY TYPE	SORTING	 Angular	INTERVALS
 Earthy	 Well	OIL SHOWS	 Core
 Fenest	 Moderate	 Even	 Dst
 Fracture	 Poor	 Spotted	 Dst
 Inter	ROUNDING	 Ques	EVENTS
 Moldic	 Rounded	 Dead	 Rft
 Organic	 Subrnd	 Gas show	 Sidewall
 Pinpoint	 Subang		
 Vuggy			

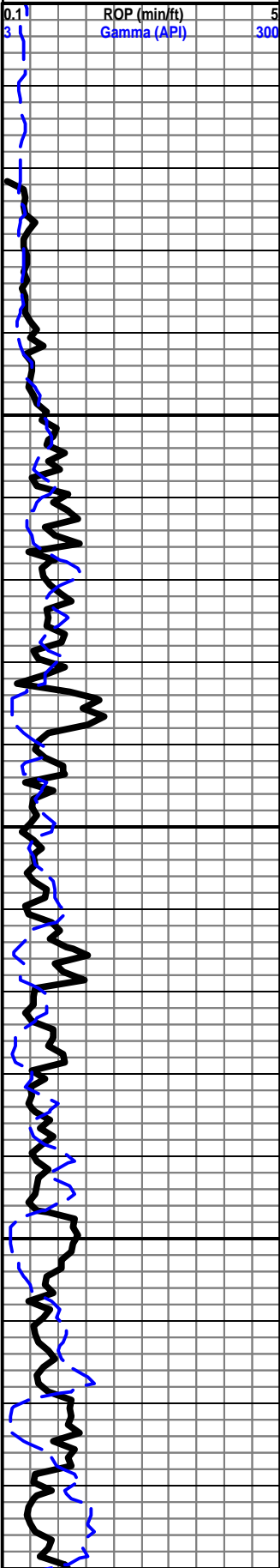
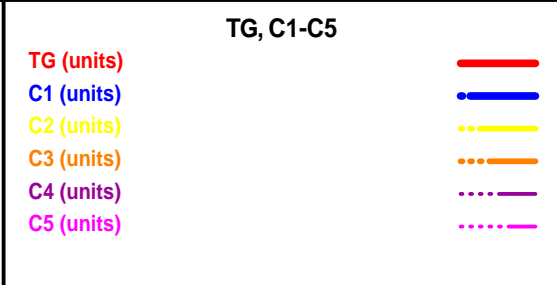


Depth

Lithology

Oil Shows

Geological Descriptions



1850

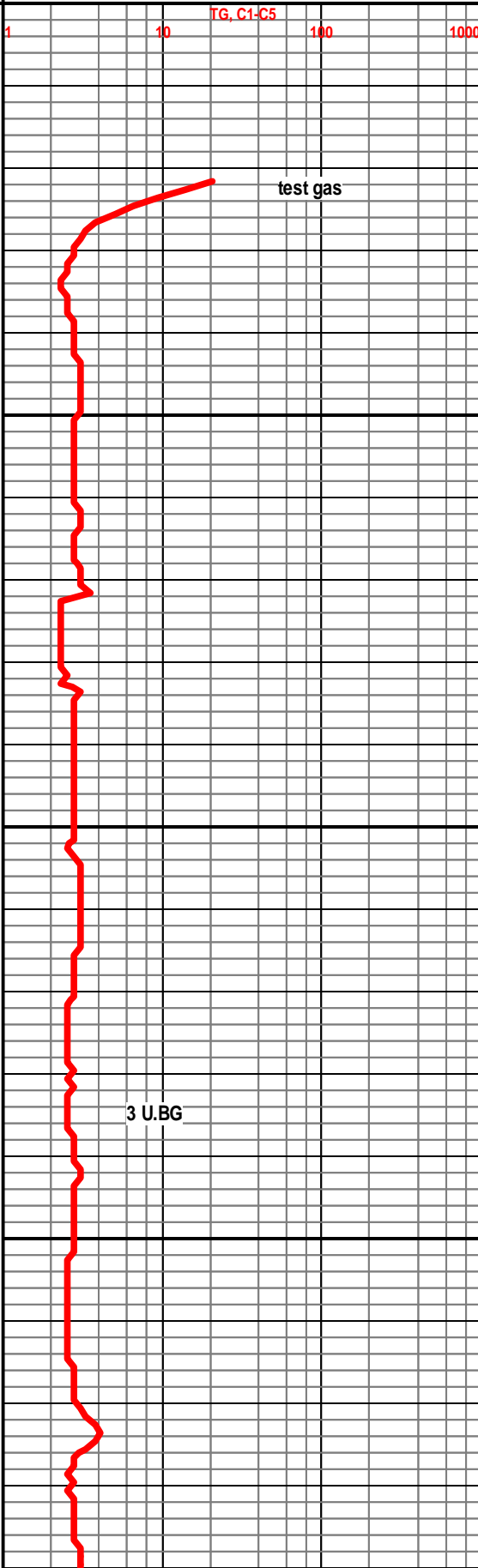
1900

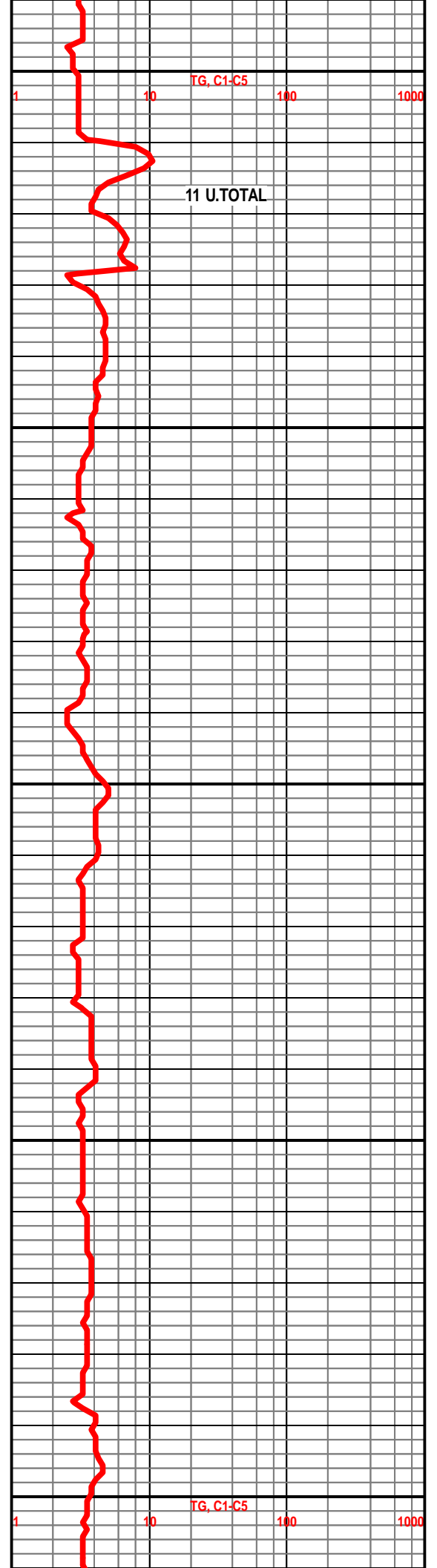
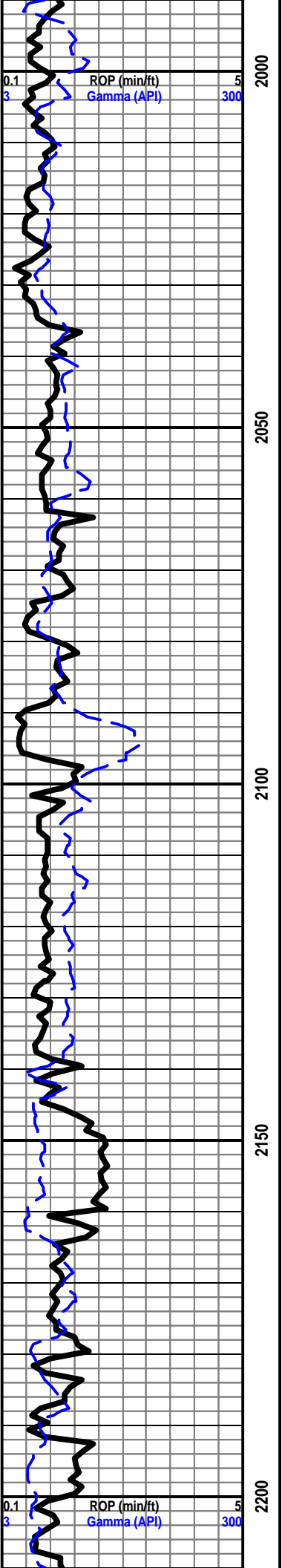
1950

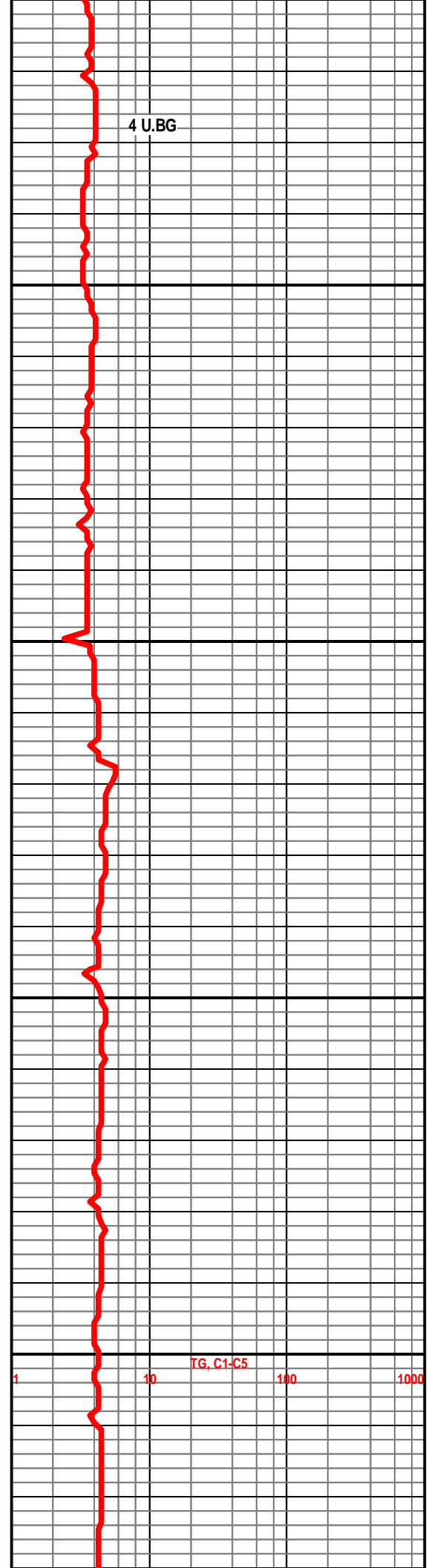
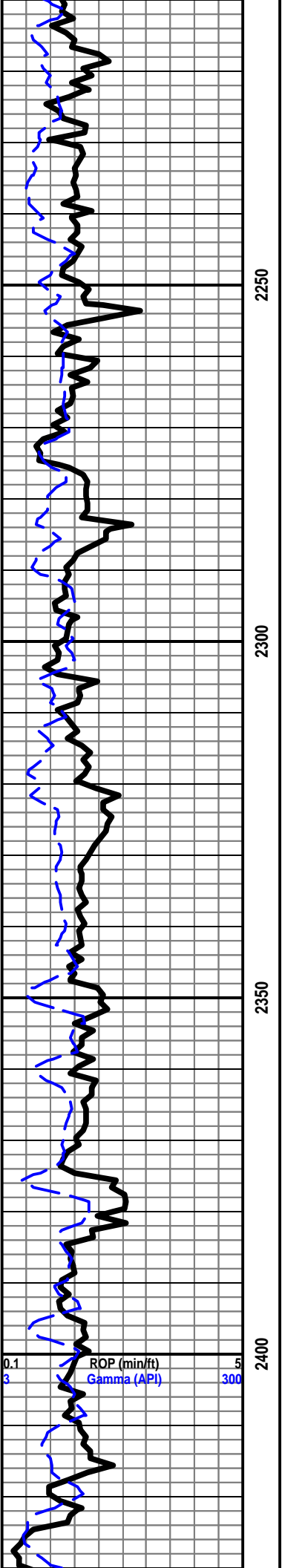
START UNMANNED UNIT
SEPT. 14, 2012

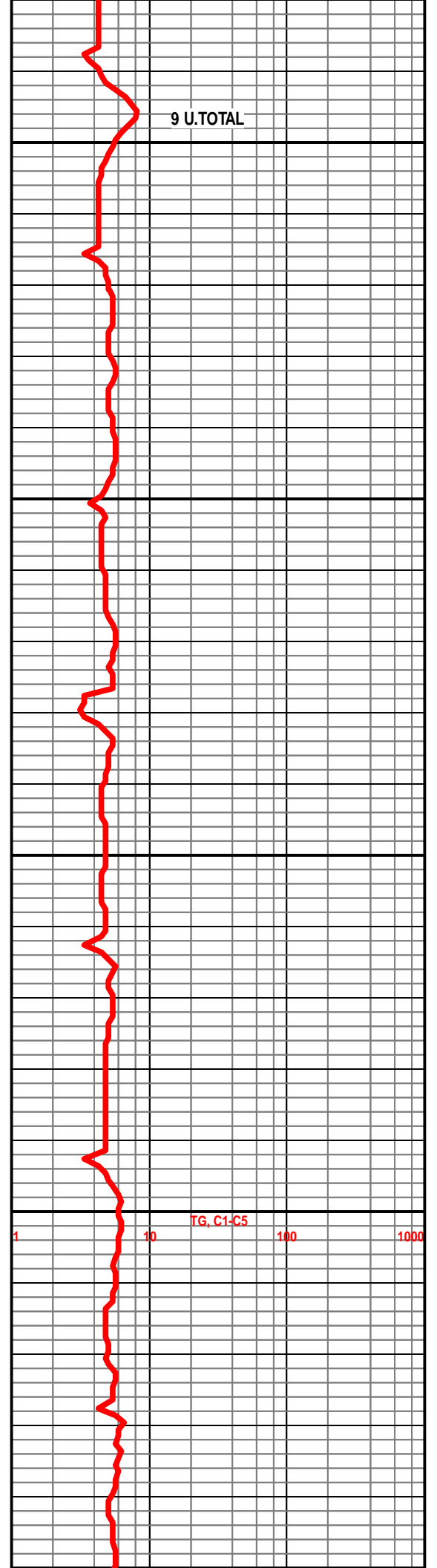
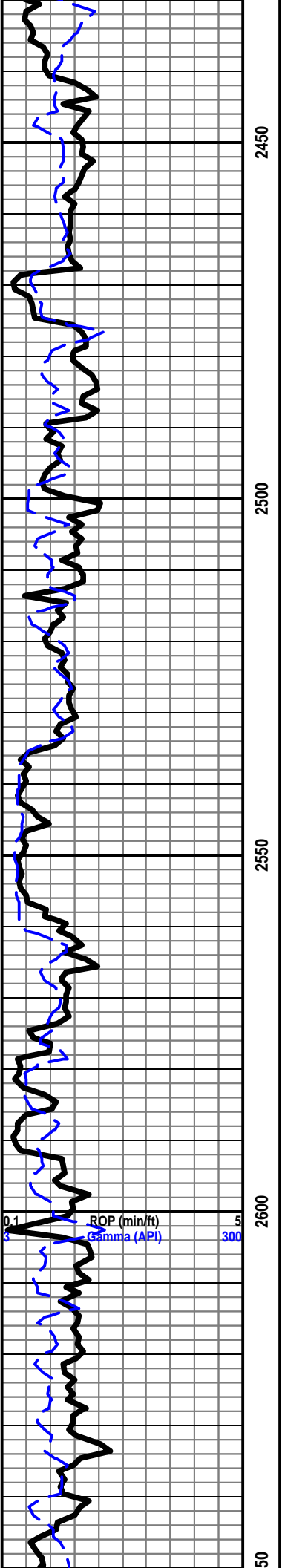
DISCOVERY RIG 2

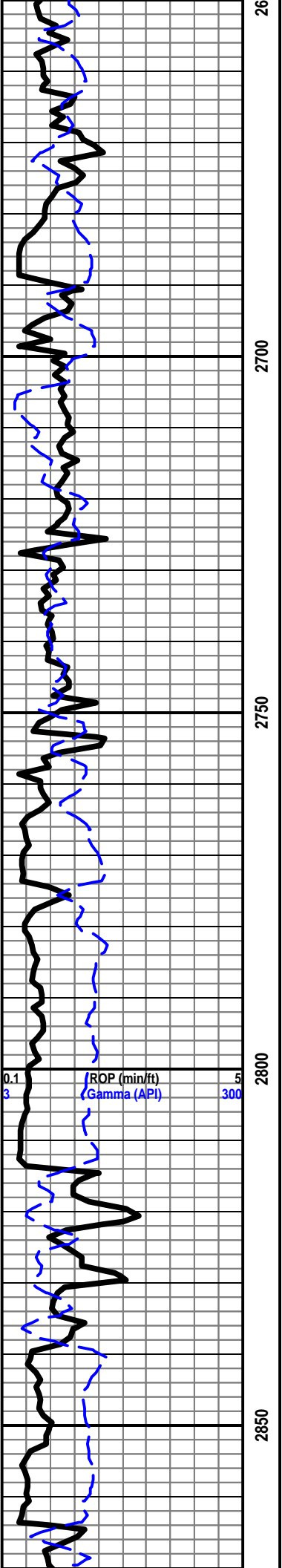
TERRY WICKHAM











26

2700

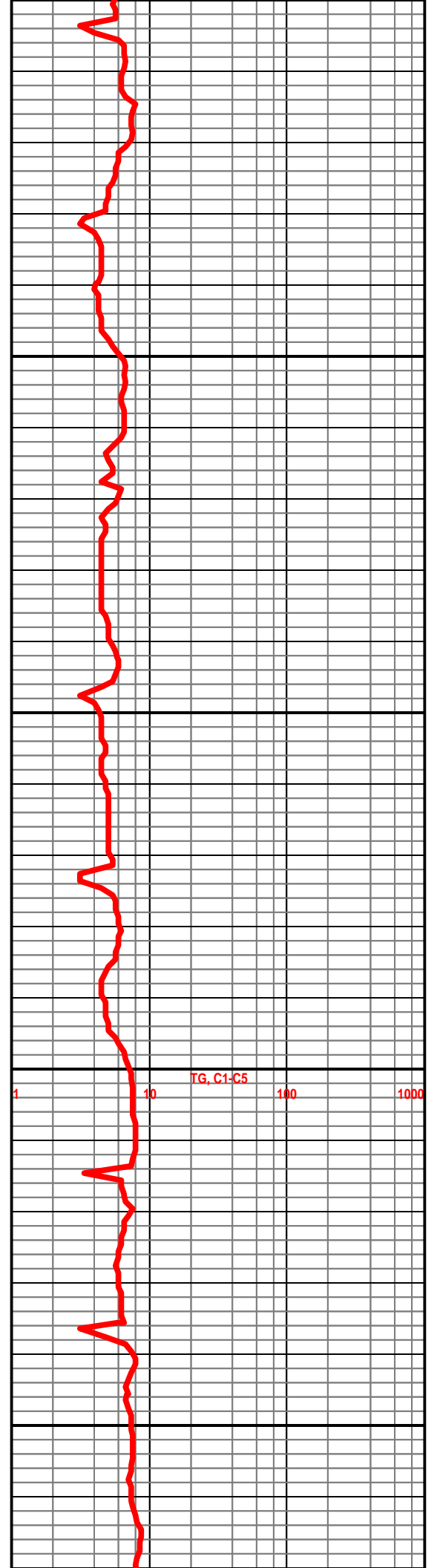
2750

2800

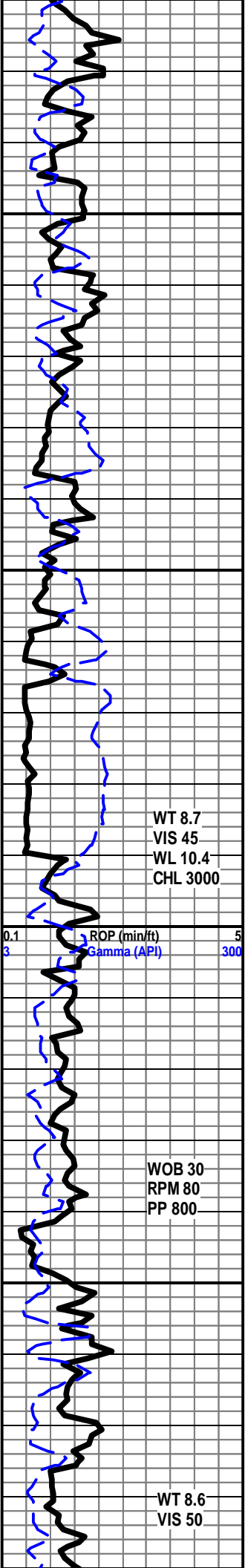
2850

0.1 (ROP (min/ft)) 5
3 (Gamma (API)) 300

BASE ROOT SH. 2814' - 784'



1 TG, C1-C5 10 100 1000



2900

2950

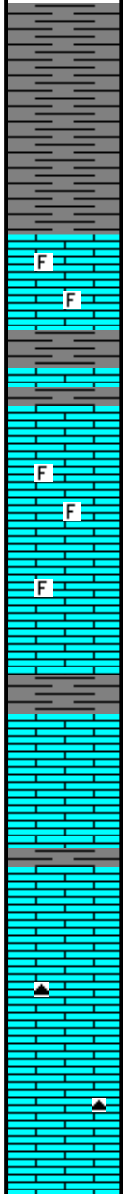
3000

3050

WT 8.7
VIS 45
WL 10.4
CHL 3000

WOB 30
RPM 80
PP 800

WT 8.6
VIS 50



START 24 HR MANNED UNIT 9/15/2012

SH- LT TO MD GY-FRM BLKY SMTH TXT TO SLI GMMY IP

HOWARD 2989' - 959'

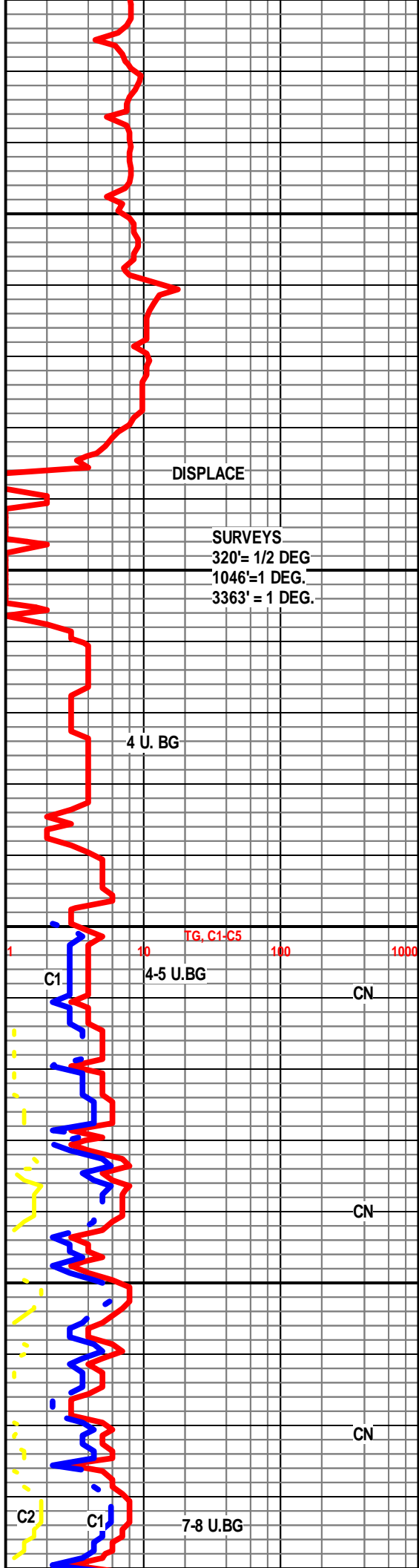
LS- OFF WHT CRM - HD TO MD HD -F-XLN TO SUCRO SLI S-CHLKY IP, TR FOSS FRGS IP, LT YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW OR CUT

LS- CRM LT TN LT GY IP, HD DNS MOTT IP, TR IMBD FOSS IP, TR IMBD SH, LT BRIT YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW OR CUT

TOPEKA 3042' - 1012'

LS-OFF WHT CRM - HD TO SFT IP, V/ SUCRO MTRX TO SUCRO S- CHLKY TO CHLKY IP, TR ABDT SFT WHT CHLKY IP, LT BRIT YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT CRM BFF- HD DNS TO BRITT, F-MD-XLN TO TT SUCRO IP, SLI TR WHT CHLKY IP, HVY TR IMBD CALC XLS IMBD THRU, SLI TR TN CHRT IP, BRIT YEL MIN FLO SCAT THRU, TR PR MICRO PP POR IP, NO VIS SHOW OR CUT



DISPLACE

SURVEYS
320' = 1/2 DEG
1046' = 1 DEG.
3363' = 1 DEG.

4 U. BG

TG, C1-C5

4-5 U.BG

CN

CN

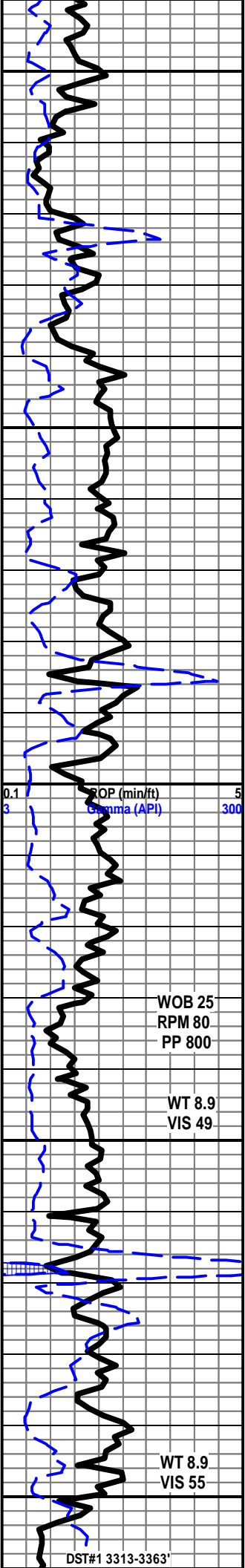
CN

7-8 U.BG

C1

C2

C1



3100
3150
3200
3250
3300

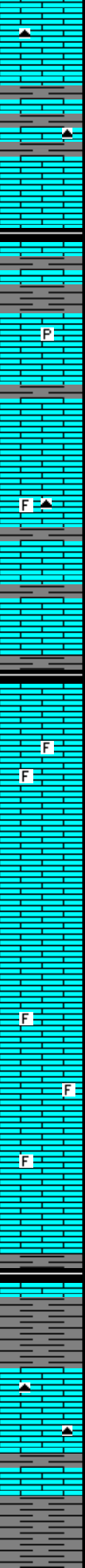
ROP (min/ft)
Gamma (API)

WOB 25
RPM 80
PP 800

WT 8.9
VIS 49

WT 8.9
VIS 55

DST#1 3313-3363'



LS- CRM LT TN LT GY TO GY IP, HD DNS MOTT,
F-V/F-XLN TO SUCRO IP, ARG TO SHLY IP,
HVY TR TN GY CHRT IP, BRIT YEL MIN FLO,
NO VIS POR, NO VIS SHOW OR CUT

SH- BLK SFT CARB

LS- OFF WHT TO CRM BFF- HD DNS TO BRITT
IP, V/ SUCRO MTRX TO F-XLN IP, HVY TR
ABDT SFT WHT CHLK, SLI TR PYR CLSTRS, LT
BRIT YEL MIN FLO IP, NO VIS POR, NO VIS
CUT OR SHOW

LS- OFF WHT CRM BFF- HD DNS TO BRITT,
F-V/F-XLN, SUCRO IP, TR IMBD FOSS FRGS IP,
SLI TR TN CHRT, SCAT TR BRIT YEL MIN FLO
IP, NO VIS POR, NO VIS SHOW OR CUT

SH- BLK SFT CARB

LS- OFF WHT CRM- HD DNS TO BRITT,
MD-F-XLN IP TO SUCRO SLI S-CHLKY IP, TR
IMBD FOSS FRGS IP, LT YEL MIN FLO IP, NO
VIS POR, NO VIS SHOW OR CUT

LS- CRM BFF- HD DNS F-V/F-XLN, SLI RE-XLN
MTRX IP, TR SUCRO S-CHLKY IP, LT YEL MIN
FLO, NO VIS SHOW

LS- OFF WHT CRM LT TN (DUE TO SLI STN IP)
HD DNS IP TO BRITT, MD-F-XLN IP, SUCRO IP,
V S-CHLKY IP. TR SCAT FOSS FRGS IP, LT
BRIT YEL GLD FLO IN 10%, PR VIS INTER-XLN
POR IN 5%, FLEETING OIL ODOR, V/ WK SLO
STRM CUT IN 2%, NO STN ON DISH

HEEBNER 3266' - 1236'

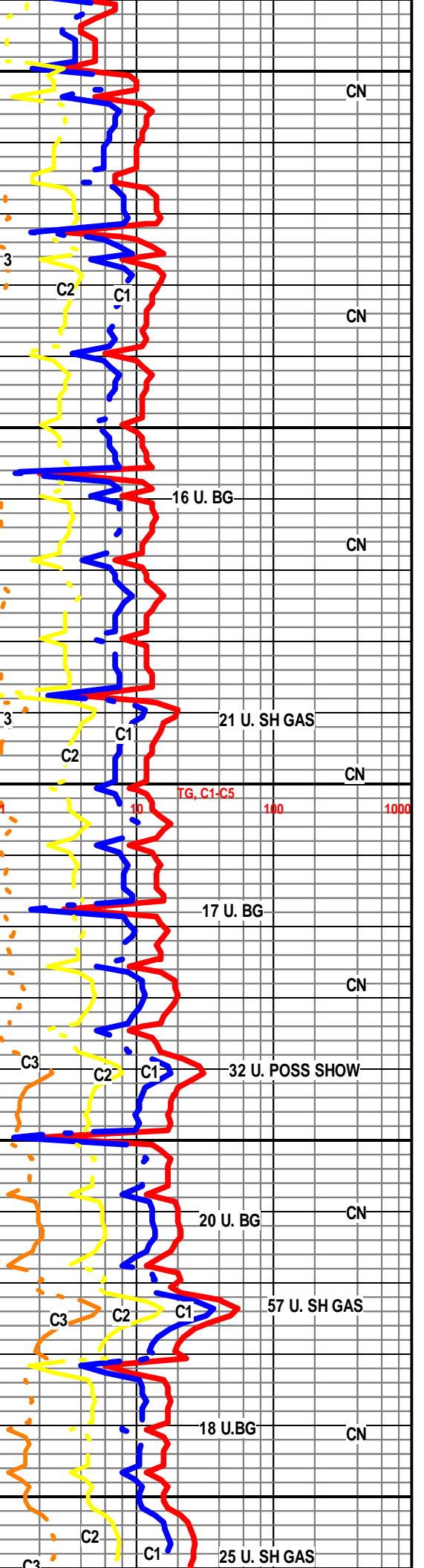
SH- BLK SFT CARB

LS- OFF WHT CRM- HD DNS TO BRITT IP,
F-XLN TO SUCRO IP, TR WHT CHRT, NO FLO,
NO VIS POR, NO VIS SHOW OR CUT

DOUGLAS 3300' - 1270'

SH- RED GRN- FRM IP TO V/ SFT PLTY TXT

LANSING 3341' - 1281'



CN
CN
CN
CN
CN
CN
CN
CN
CN
CN
CN
CN

3
C2
C1

3
C2
C1

C3
C2
C1

C3
C2
C1

C3
C2
C1

16 U. BG

21 U. SH GAS

17 U. BG

32 U. POSS SHOW

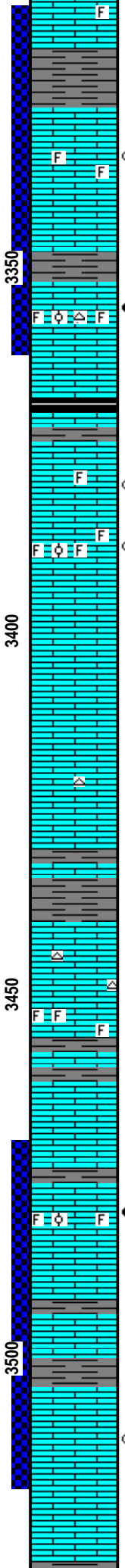
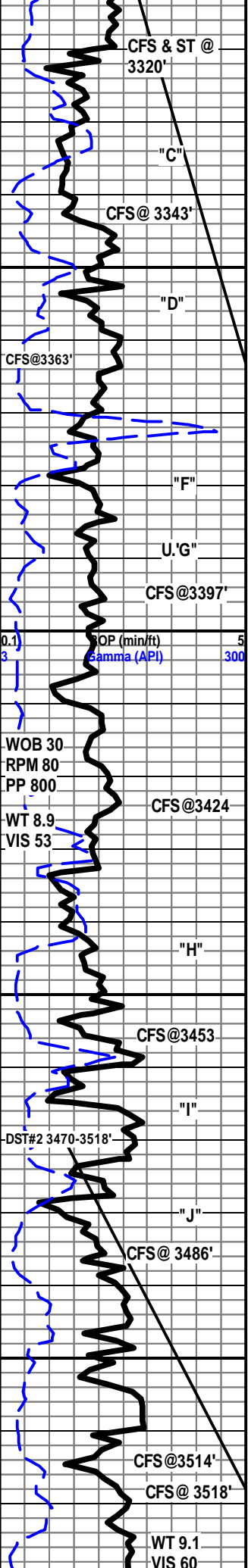
20 U. BG

57 U. SH GAS

18 U. BG

25 U. SH GAS

TG, C1-C5
10
100
1000



LS- TN LT BRN -HD DNS MD-F-XLN, SLI RE-XLN IP, SLI SUCRO IP, TR FOSS FRGS IP, SLI TR IMBD SH IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

LANSING "C" 3330' - 1300'

3330-3336' LS- CRM LT TN TN (SCAT DK TN STN THRU) HD DNSIP TO BRITT, F-MD-XLN RE-XLN MTRX TO SUCRO IP, SCAT IMBD FOSS FRGS IP, BRIT YEL GLD FLO IN 50% ON ONE FACES OF ROCK, DLL YEL GLD FLO IN 30%, NO FLO IN 20%, PR TO FR VIS INTER-FOSS POR IN 10-15%, POSS FRACT POR IP, LT FLSH CUT IN 40%, FR SLO STM CUT ON 40%, GD OIL ODOR, LT STN ON DISH

3353'3357' LS- OFF WHT CRM LT TN (SCAT LT TN OIL STN SCAT THRU, DK TN OIL STN IN 5%) HD DNS TO BRITT IP, MD-F-XLN, RE-XLN MTRX, V FOSS, SME IMBD MD OOL IP, SMLL CALC XLS IMBD IP,TR IMBD TN CHRT, BRIT YEL GLD SPTTD FLO IN 30%, DLL YEL FLO IN 50%, PR TO FR VIS INTER-FOSS POR IN 30%, TR FR INTER-OOL POR IP, EXCEL INST FLSH CUT THRU, V GD SLO STRM MLKY BLU CUT THRU, FR TO GD OIL ODOR, LT BRN LCH ON DISH

LANSING "F" 3376' - 1346'

3377-3380' LS- CRM LT TN (TN STN IN 10%), HD DNS F-VF-XLN RE-XLN IP, IMBD SMLL CALC XLS IP, TR FOSS FRGS IP, BRIT YEL GLD FLO IN 10%, DLL YEL MIN FLO IP, TR V PR INTER-XLN POR IN 5%, GD FLSH CUT IN 5%, GD SLO STRM CUT IN 10%, NO ODOR, NO STN ON DISH

3384-3387- LS- LT TN TN LT BRN DUE TO LT BRN OIL STN THRU, HD DNS TR BRITT, MD-XLN, V/RE-XLN MTRX, V FOSS, SMLL CALC XLS IMBD THRU, TR SMLL OOL IP, BRIT YEL GLD FLO IN 30%, DLL YEL GLD FLO IN 60%, PR TO TR FR VIS INTER-FOSS POR IN 20%, PR VIS MICROVUG POR IN 10%, GD STRNG FLSH CUT IN 40%, GD SLO STRM MLKY BLUE CUT IN 50%, GD OIL ODOR, TN STN ON DISH

3406-3410 LS- OFF WHT CRM BFF- MDHD TO SFT, V SUCRO S-CHLKY TO CHLKY MTRX, TR IMBD FOSS FRGS IP,LT YEL MIN FLO, NO VIS POR,NO VIS SHOW OR CUT

LANSING "H" 3441' - 1411'

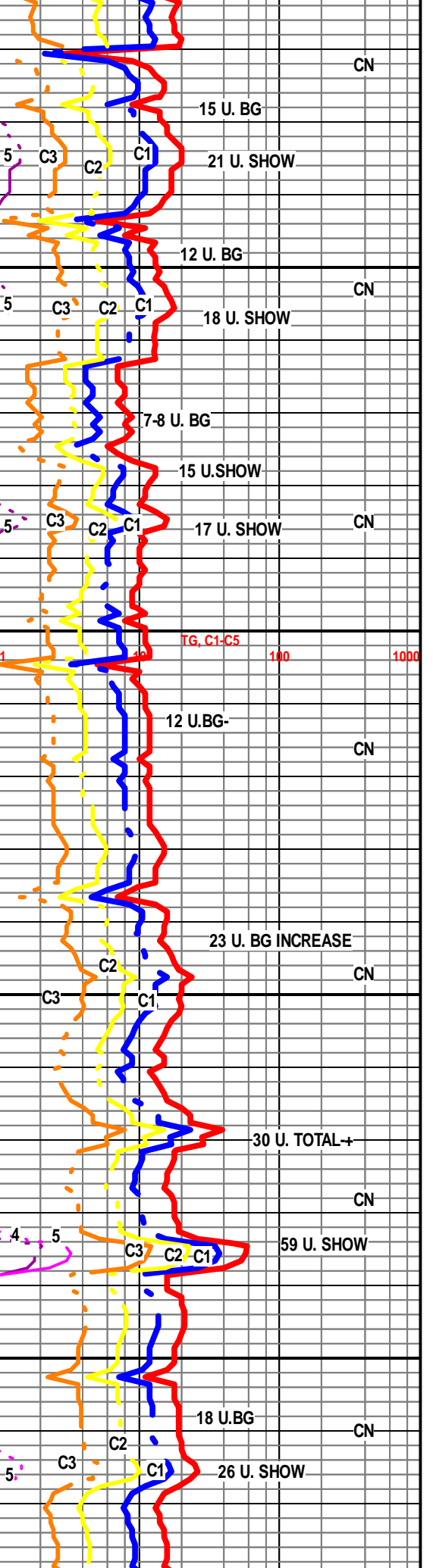
LS- CRM BFF LT TN HD DNS TO TR BRITT, MD-FXLN TO SUCRO SLI S-CHLKY IP, TR WHT CHRT, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

3452-3454- LS- CRM LT TN- HD BRITT, MD-XLN RE-XLN MTRX, V/ SUCRO SLI S-CHLKY IP, ABDT IMBD FOSS FRGS THRU, LT YELMIN FLO,NO VIS POR,NO VIS CUT

3463-3467' LS- OFF WHT CRM, MD HD TO SFT IP, V/ SUCRO S-CHLKY MTRX,SLI TR ABDT WHT CHLK IP, NO FLO, NO VIS POR NO VIS SHOW

3478-3481- LS- CRM LT TN LT BRN(DUE TO LT TN TO DK BRN OIL STN THRU) HD VBRITT, MD-F-XLN RE-XLN MTRX, FOSS IP, TR IMBD SMLL OOL IP, TR SMLL CALC IMBD IP, BRIT YEL GLD SPTTD FLO IN 60%, V DLL YEL GLD FLO IN 20%, PR TO FR TR GD INTER-FOSS POR IN 5%, SCAT FR VIS MICRO VUG POR IN 10%, POSS SLI OOLMLD, EXCEL FLSH CUT THRU, EXCEL SLO STRM MLKY BLU CUT THRU, GD OIL ODOR, TN STN ON DISH

3510-3516' LS- OFF WHT LT TN TN(DUE TO LT BRN OIL STN SCAT IN 30%) HD V BRITT, V/ SUCRO MTRX IP GRDNG TO ABDT FRM TO SFT WHT CHLK IP, BRIT YEL GLD FLO IN 40%, NO FLO IN 50%, V PR VIS INTER-XLN MICRO PP POR IN 10%, TO NO POR IN 80%, GD FLSH CUT IN 40%, GD SLO STRM MLKY BLU CUT IN 30%, FR OIL ODOR, V LT TN LCH ON DISH



3540-3546' LS- OFF WHT TO WHT - HD IP TO V/ FRM , V/ SUCRO S-CHLKY TO FRM CHLKY MTRX, TR WHT TRNLSCT CHRT, NO FLO, NO VIS POR, NO VIS SHOW

BKC 3545' - 1515'

SH-RED- FRM BLKY IP TO V/ SFT GMMY TXT

3570-3572' LS- OFF WHT CRM BRN DUE TO GMMY HVY DK BRN TO BLK OIL STN SCAT THRU, HD DNS MD-F-XLN , RE-XLN ,FOSS FRGS IMBD IP, BRIT YEL GLD FLO IN 30%, V/ DLL YEL FLO IN 20%, TR V/ PR SCAT INTER-XLN PP POR IN 10%, V/ PR SCAT ISOLATED MICROVUG POR IP, EXCEL INST FLSH CUT THRU, EXCEL SLO STRM CUT THRU, NO OIL ODOR, DK TN LCH ON DISH

SH- RED GY GRN- FRM BLKY TO V/ SFT GMMY TXT, ABDT RED GY TRNSLCNT WHT CHRT

ARBUCKLE 3627' - 1597'

3627-3640' DOLO- WHT OFF WHT LT TN BLK, DUE TO OIL STN , HD DNS TO BRITT, MD-XLN TO CRS SUCRO MTRX, ABDT IMBD SMLL TO MD ANG DOLO GRNS THRU, BRIT YEL GLD FLO IN 10%, DLL YEL GLD FLO IN 80%, PR TO FR TR GD INTER-XLN POR IN 50%, EXCEL INST FLSH CUT THRU, EXCEL SLO STRM MLKY BLU CUT THRU, FR OIL ODOR, BRN LCH ON DISH

3640-3652' DOLO- WHT OFF WHT TN BLK, DUE TO ABDT LV & HVY OIL STN THRU, HD DNS IP TO V/BRITT, V/ CRS SUCRO MTRX, ABDT IMBD MD ANG DOLO WHT GRNS, SLI TR WHT CHLK IN 1%, BRIT YEL GLD FLO IN 80%, DLL YEL FLO IN 10%, PR TO FR TR GD INTER-XLN POR, TR SCAT MICROVUG POR IP, FR OIL ODOR, EXCEL INST FLSH CUT TO EXCEL SLO STRM MLKY BLU CUT THRU, BRN LCH ON DISH

3652-3670' DOLO- WHT OFF WHT- F-V/F-XLN TO MD-XLN, SUCRO SLI S-CHLKY IP, HVY TR IMBD SMLL CLR RND QURTZ GRNS IP, SCAT IMBD MD ANG DOLO GRNS IP, HVY TR WHT CHRT, HVY TR IMBD SFT WHT CHLK IP, DLL YEL MIN FLO THRU, PR VIS INTER-XLN POR IN 2%, NO VIS CUT OR SHOW

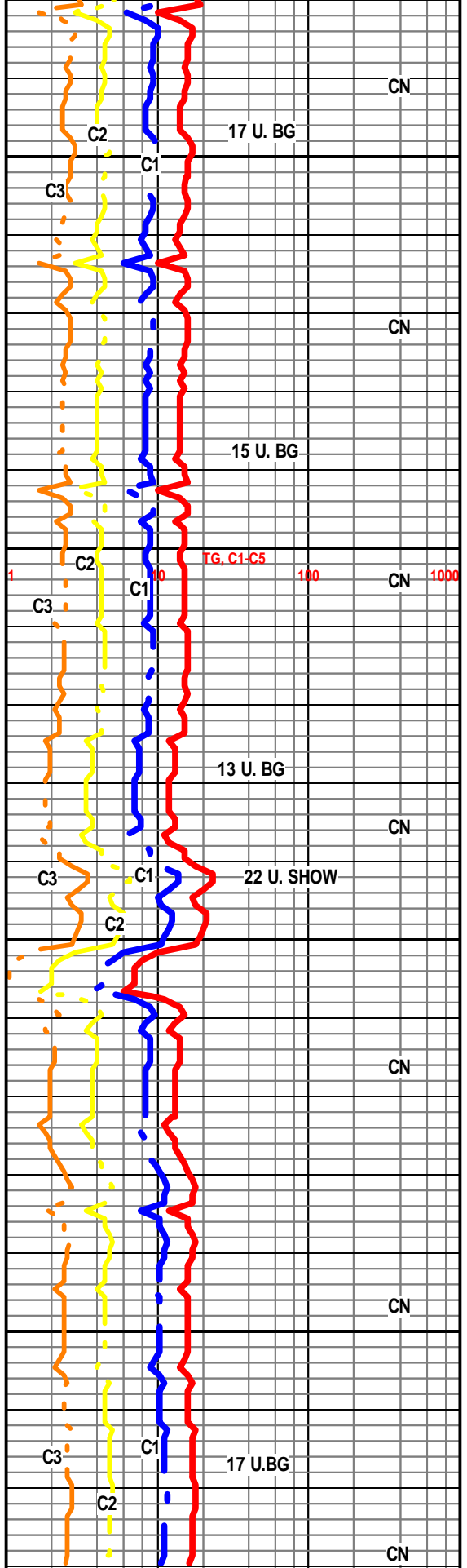
3670-3700- DOLO- OFF WHT WHT TO CRM, HD DNS IP TO V/BRITT, F-XLN TO MD-XLN IP RE-XLN MTRX S-SUCRO IP, TR IMBD FOSS FRGS IP, SLI TR IMBD RND CLR QURTZ GRNS IP, SCAT IMBD PYR AND TR PYR CLSTRS IP, HVY TR IMBD SFT CHLK IP, DLL YEL MIN FLO THRU, SLI TR V/PR INTER-XLN POR IP, NO VIS CUT OR SHOW

3700- TD, DOLO- WHT OFF WHT- HD DNS IPTO V/ BRITT, F-XLN IP TO V/ SUCRO MTRX ABDT IMBD SMLL TO MD ANG DOLO GRNS IP, HVY TR FLDSPR SCAT THRU, , SLI TR IMBD GRN CLAY, SLI TR MD CLR RND QURTZ GRNS SCAT THRU, SFT WHT CHLK IP, LT YEL MIN FLO IP, TR PR VIS INTER-XLN POR, IP, NO VIS SHOW OR CUT

R.T.D. @ 9:37 AM 9/18/2012

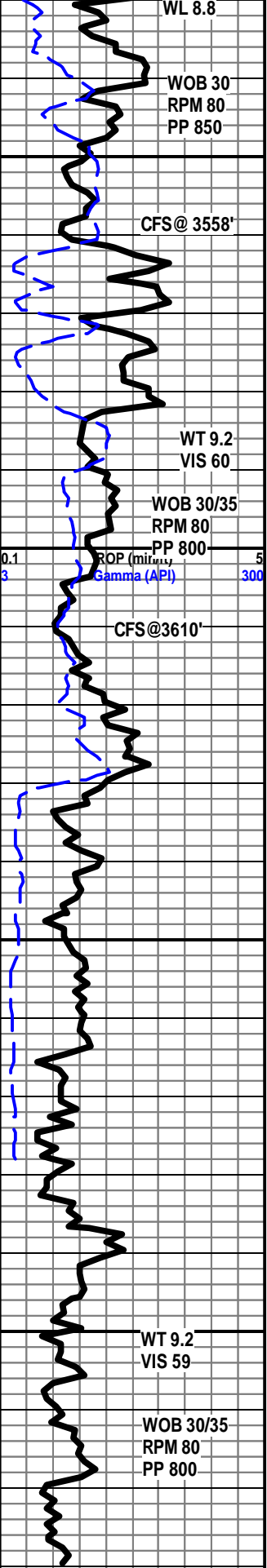
CTCH 1.5 HRS

TRIP OUT F/ LOGS



R.T.D. @ 3730'

SAMPLES WILL BE DELIVERED TO KGS



R.T.D. @3730'

WOB 30
RPM 80
PP 850

CFS@ 3558'

WT 9.2
VIS 60

WOB 30/35
RPM 80
PP 800

ROP (min)
Gamma (API)

CFS@3610'

WT 9.2
VIS 59

WOB 30/35
RPM 80
PP 800

3550
3600
3650
3700
50

