



1123544

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	GRABBE TRUST 1-30
Doc ID	1123544

All Electric Logs Run

INDUCTION
MICRO
NEUTRON-DENSITY
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

March 08, 2013

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

Re: ACO1
API 15-051-26424-00-00
GRABBE TRUST 1-30
NE/4 Sec.30-14S-17W
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: 11/21/2012
 Invoice # 6208
 P.O.#:
 Due Date: 12/21/2012
 Division: Russell

Invoice

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

Reference:
 GRABBE TRUST 1-30

Description of Work:
 LONG SURFACE JOB

RECEIVED

NOV 29 2012

**SAMUEL GARY JR.
 & ASSOCIATES, INC.**

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	425	\$ 5,786.31	Yes				
Bulk Truck Matl-Material Service Charge	448	\$ 972.80	No				
Calcium Chloride	15	\$ 776.18	Yes				
8 5/8" Basket	2	\$ 686.17	Yes				
Premium Gel (Bentonite)	8	\$ 141.40	Yes				
8 5/8" Centralizer	2	\$ 138.97	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	9	\$ 97.52	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	9	\$ 57.07	No				

SubTotal: \$ 9,860.61

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,479.09)

SubTotal for Taxable Items: \$ 6,580.56

SubTotal for Non-Taxable Items: \$ 1,800.96

Total: \$ 8,381.52

Tax: \$ 414.58

6.30% Ellis County Sales Tax

Amount Due: \$ 8,796.10

Applied Payments:

Balance Due: \$ 8,796.10

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

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

No. 6208

Phone 785-483-2025

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-18-12	30	14	17	Ellis	KS		3:15 PM
Location				Tulon + Hwy 410 1/2 S Minor Rd W into			

Lease	Well No.	Owner
Grabbe Trust	1-30	To Quality Oilwell Cementing, Inc.

Contractor	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Val #6		

Type Job	Charge To
Surface	Sam Gary Jr & Assoc

Hole Size	T.D.	Depth	Street
12 1/4	973	931	

Csg.	Depth	City	State
8 5/8			

Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	

Tool	Depth	Cement Amount Ordered
		425 com 3% 44 2066el

Cement Left in Csg.	Shoe Joint	
42	42	

Meas Line	Displace	Common
	5672	425

EQUIPMENT			Poz. Mix
Pumptrk	No.	Cement	
9		Craig	

JOB SERVICES & REMARKS			Hulls
Remarks:			Salt

Rat Hole			Flowseal
Mouse Hole			Kol-Seal

Centralizers			Mud CLR 48
Baskets			CFL-117 or CD110 CAF 38

D/V or Port Collar			Sand
8 5/8 Bon Bottom Est. Circulation.			Handling 4/8

Mix 425 SK + Displace Plug.			Mileage
Cement + Circulated			

			FLOAT EQUIPMENT
			Guide Shoe

			Centralizer
			2 8 5/8

			Baskets
			2

			AFU Inserts
			Baffle Plate

			Float Shoe
			Rubber Plug

			Latch Down

			Pumptrk Charge
			Long Surface

			Mileage
			9

			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: 11/28/2012
Invoice # 6199
P.O.#:
Due Date: 12/28/2012
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:
 GRABBE TRUST 1-30

Description of Work:
 PLUG JOB

RECEIVED
 DEC 07 2012
 SAMUEL GARY JR.
 & ASSOCIATES, INC.

GEL COMP W/O LOE GGS

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

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	Yes				
Common-Class A	138	\$ 1,878.85	Yes				
Bulk Truck Matl-Material Service Charge	238	\$ 516.80	Yes				
POZ Mix-Standard	92	\$ 459.47	Yes				
Premium Gel (Bentonite)	8	\$ 141.40	Yes				
Flo Seal	50	\$ 108.57	Yes				
Pump Truck Mileage-Job to Nearest Camp	9	\$ 97.52	Yes				
Dry Hole Plug	1	\$ 60.80	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	9	\$ 57.07	Yes				

Invoice Terms:

Net 30		SubTotal: \$ 4,311.87
	<i>Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:</i>	\$ (646.78)
<hr/>		
	SubTotal for Taxable Items:	\$ 3,665.09
	SubTotal for Non-Taxable Items:	\$ -
<hr/>		
	Total:	\$ 3,665.09
	Tax:	\$ 230.90
	Amount Due:	\$ 3,895.99
	Applied Payments:	
	Balance Due:	\$ 3,895.99

6.30% Ellis 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. 6199

Date	11-24-12	Sec.	30	Twp.	14	Range	17	County	Ellis	State	Ks	On Location		Finish	7:00AM	
Lease	Grabbe Trust							Well No.	1-30		Owner	Munipr, Ks - 1E, 1/2S, 1/4E				
Contractor	Wal Energy #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 Jr + Associates							
Hole Size	7 7/8"		T.D.	3620'			Street									
Csg.			Depth				City	State								
Tbg. Size	4 1/2" D.P.		Depth	3504'			The above was done to satisfaction and supervision of owner agent or contractor.									
Tool			Depth				Cement Amount Ordered	230 5x 60/40 4% Gel								
Cement Left in Csg.			Shoe Joint				Displace	H2O/mud								
Meas Line						V4 H Fl Seal										
EQUIPMENT							Common	138								
Pumptrk	9	No.	Cementer	Tavis			Poz. Mix	92								
Bulktrk	8	No.	Driver	Billy			Gel.	8								
Bulktrk	p.u.	No.	Driver	Rock			Calcium									
JOB SERVICES & REMARKS							Hulls									
Remarks:							Salt									
Rat Hole							Flowseal	50ft								
Mouse Hole							Kol-Seal									
Centralizers							Mud CLR 48									
Baskets							CFL-117 or CD110 CAF 38									
D/V or Port Collar							Sand									
	3504' - 25sx						Handling	238								
	1150' - 50sx						Mileage									
	520' - 100sx						FLOAT EQUIPMENT									
	40' - 10sx w/plug						Guide Shoe									
	Rathole - w/30sx						Centralizer									
	Mousehole - w/15sx						Baskets									
	Cement did Circulate						AFU Inserts									
							Float Shoe									
							Latch Down									
							1 - Dry hole plug									
							Pumptrk Charge	plug								
							Mileage	9								
X Signature							Padj Omata									
									Tax							
									Discount							
									Total Charge							



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

30-14s-17w-Ellis

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Chris Mitchell

Grabbe Trust #1-30

Job Ticket: 48735 **DST#: 1**

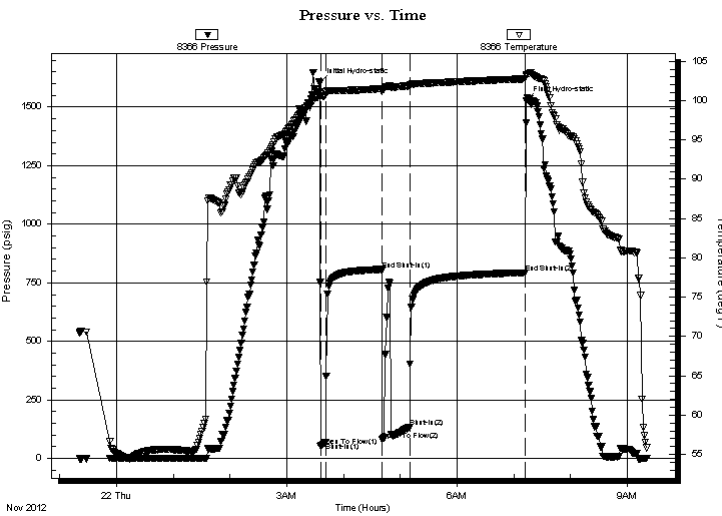
Test Start: 2012.11.21 @ 23:20:52

GENERAL INFORMATION:

Formation: **A-D**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 03:35:37
 Time Test Ended: 09:21:07
 Interval: **3214.00 ft (KB) To 3290.00 ft (KB) (TVD)**
 Total Depth: 3290.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 1946.00 ft (KB)
 1936.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8366 Inside
 Press @ Run Depth: 133.40 psig @ 3282.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.21 End Date: 2012.11.22 Last Calib.: 2012.11.22
 Start Time: 23:20:54 End Time: 09:21:07 Time On Btm: 2012.11.22 @ 03:34:52
 Time Off Btm: 2012.11.22 @ 07:13:07

TEST COMMENT: IFP-Weak Blow , Built to 3"
 ISI-Dead
 FFP-Good Blow , BOB in 30 Min
 FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1602.71	101.11	Initial Hydro-static
1	53.83	100.60	Open To Flow (1)
7	69.98	100.76	Shut-In(1)
66	806.97	101.52	End Shut-In(1)
66	80.02	101.14	Open To Flow (2)
95	133.40	101.87	Shut-In(2)
218	793.12	102.76	End Shut-In(2)
219	1526.18	103.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
165.00	Muddy Water-70%W-30%M	2.31

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

30-14s-17w-Ellis

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Chris Mitchell

Grabbe Trust #1-30

Job Ticket: 48735 **DST#: 1**

Test Start: 2012.11.21 @ 23:20:52

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:	16000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
165.00	Muddy Water-70%W-30%M	2.315

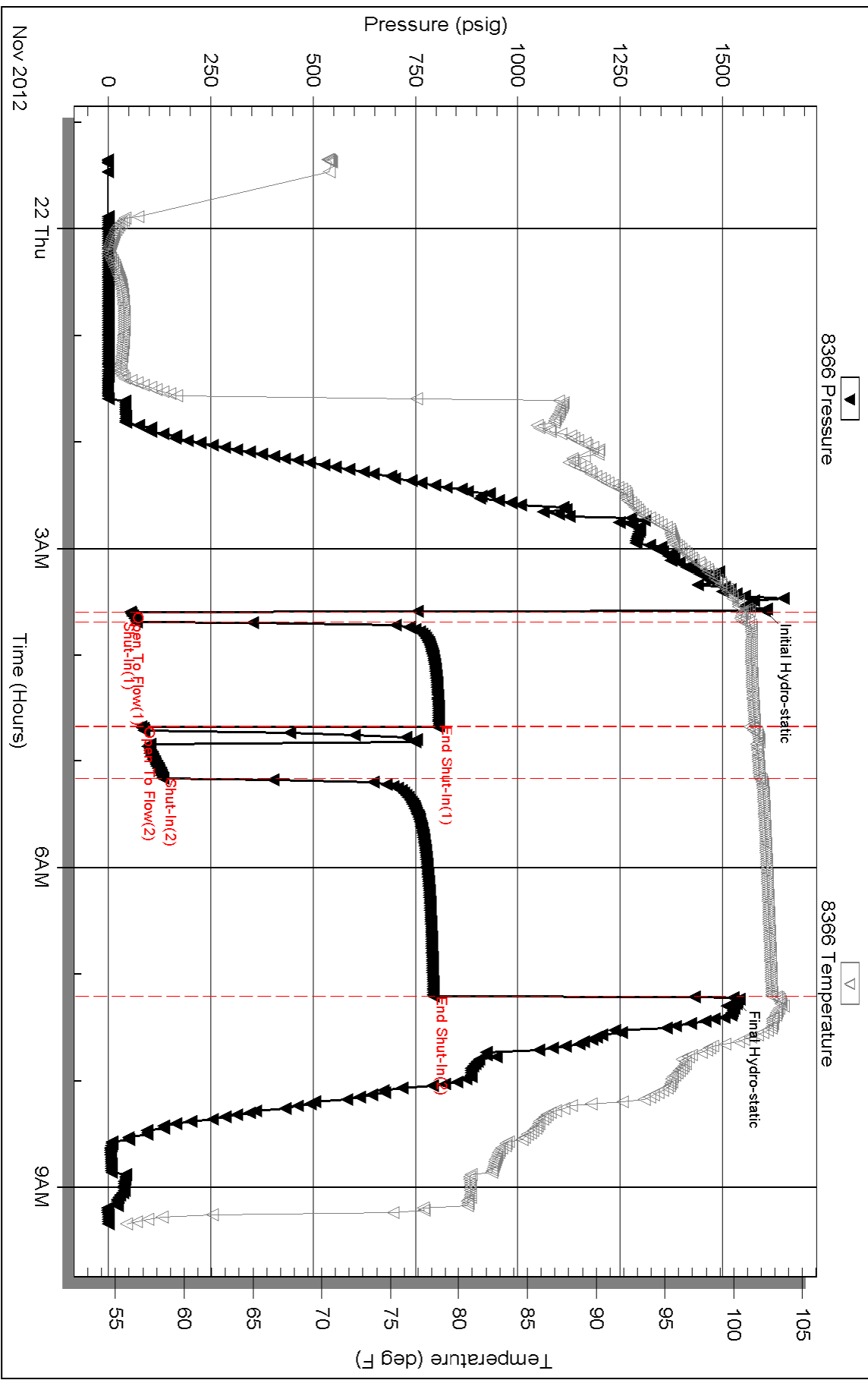
Total Length: 165.00 ft Total Volume: 2.315 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler-45#,3000ml Muddy Water

Pressure vs. Time



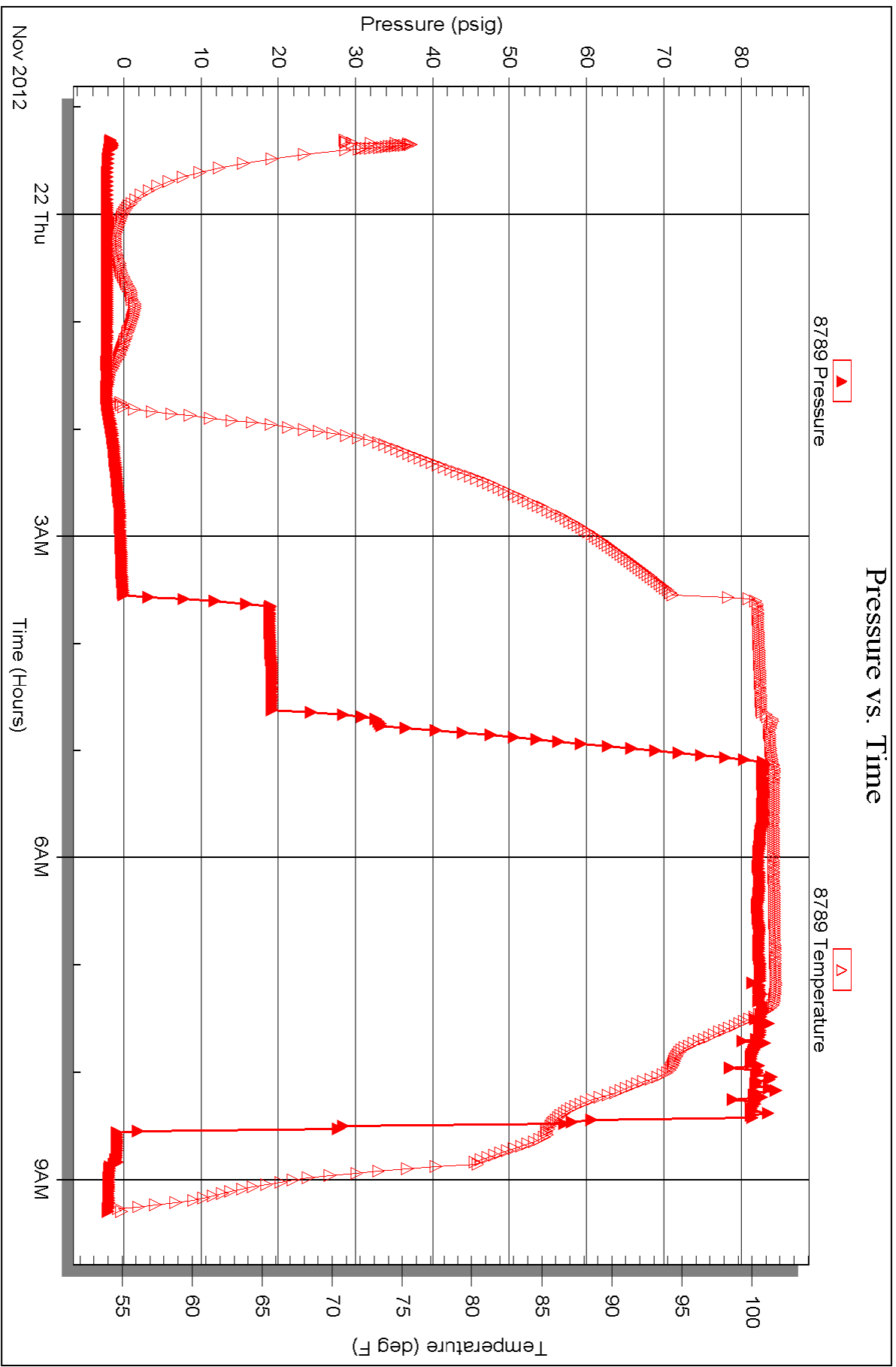
Serial #: 8789

Fluid

Samuel Gary Jr. & Associates

Grabbe Trust #1-30

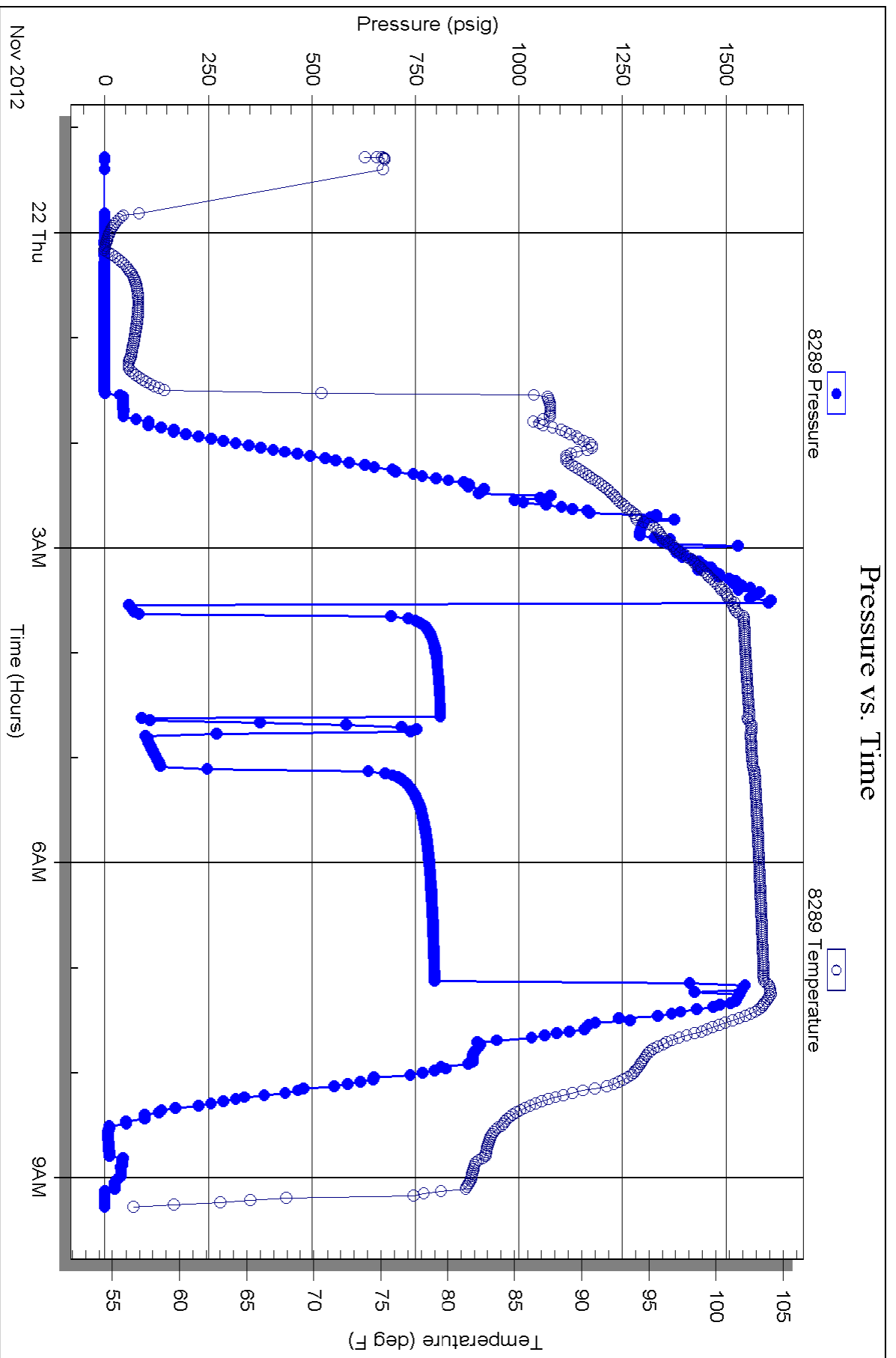
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 48735

Printed: 2012.11.22 @ 10:35:13





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

30-14s-17w-Ellis

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Chris Mitchell

Grabbe Trust #1-30

Job Ticket: 48736 **DST#: 2**

Test Start: 2012.11.23 @ 16:06:44

GENERAL INFORMATION:

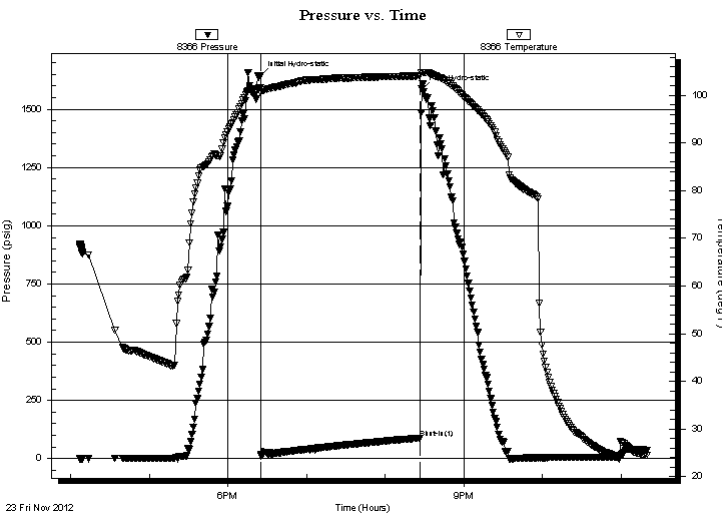
Formation: **C**
 Deviated: **No** Whipstock: **0.00 ft (KB)**
 Time Tool Opened: 18:24:59
 Time Test Ended: 23:19:29
 Interval: **3240.00 ft (KB) To 3261.00 ft (KB) (TVD)**
 Total Depth: **3619.00 ft (KB) (TVD)**
 Hole Diameter: **7.80 inches** Hole Condition: **Good**
 Test Type: **Conventional Straddle (Reset)**
 Tester: **Jason McLemore**
 Unit No: **54**
 Reference Elevations: **1946.00 ft (KB)**
1936.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8366

Inside

Press @ Run Depth: **psig @ 3242.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.11.23** End Date: **2012.11.23** Last Calib.: **2012.11.23**
 Start Time: **16:06:46** End Time: **23:19:29** Time On Btm: **2012.11.23 @ 18:24:44**
 Time Off Btm: **2012.11.23 @ 20:27:44**

TEST COMMENT: 120 Min. IFP-Weak Blow , Built to 4" , Pull Tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1645.48	101.57	Initial Hydro-static
1	12.45	100.58	Open To Flow (1)
122	88.57	104.10	Shut-In(1)
123	1586.47	104.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	Muddy Water	2.10

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

30-14s-17w-Ellis

1515 Wynkoop
Suite 700
Denver, CO. 80202
ATTN: Chris Mitchell

Grabbe Trust #1-30

Job Ticket: 48736

DST#: 2

Test Start: 2012.11.23 @ 16:06:44

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:

65000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
150.00	Muddy Water	2.104

Total Length: 150.00 ft Total Volume: 2.104 bbl

Num Fluid Samples: 0

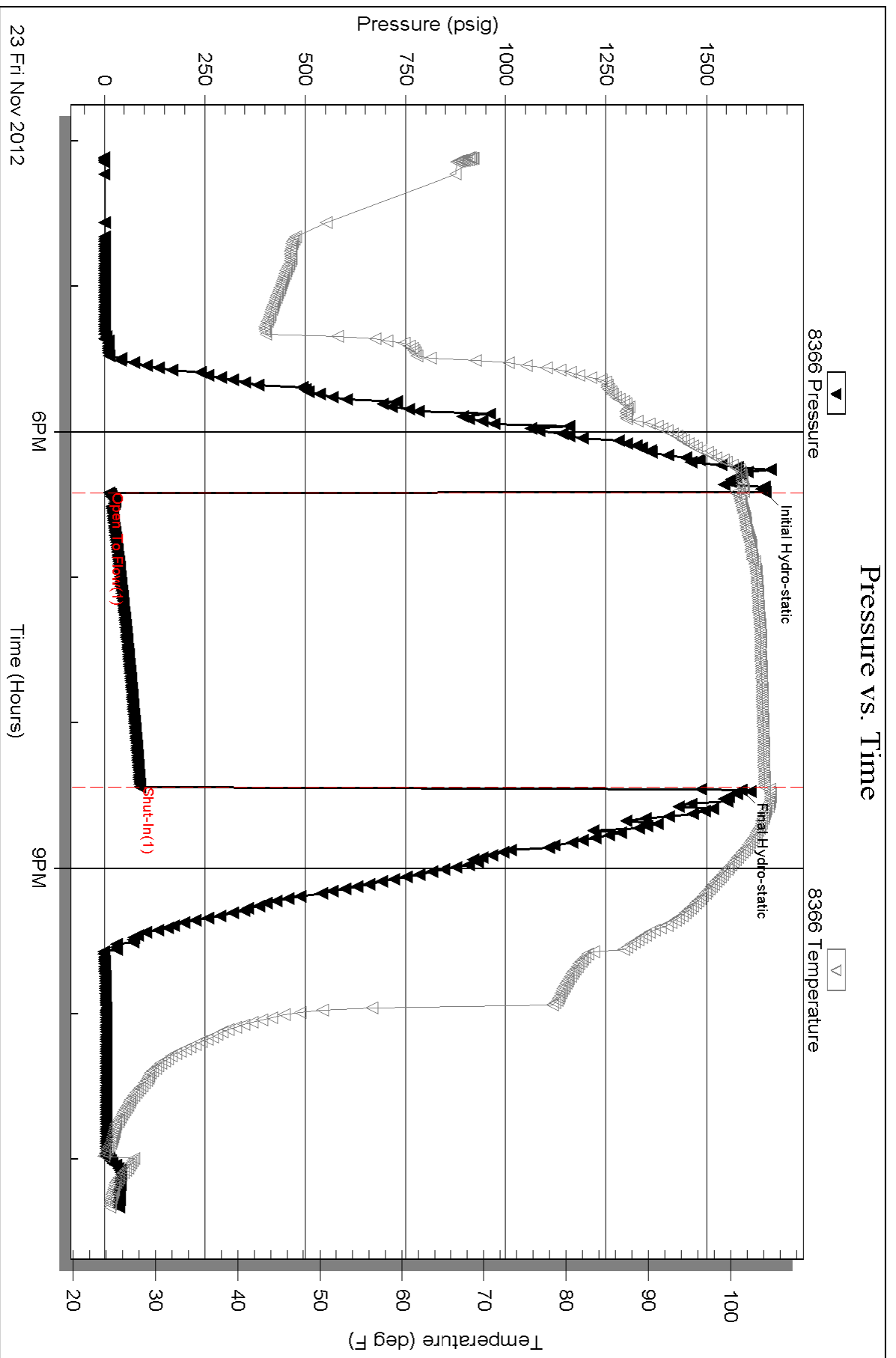
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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

Well Name: SGA Grabbe Trust 1-30
 Location: Sec. 30 14S-17W Ellis County, Kansas
 License Number: 15-051-26424-0000 Region: WILDCAT
 Spud Date: 11/17/12 Drilling Completed: 11/23/12
 Surface Coordinates: 1800' FNL/ 1680' FEL

Bottom Hole Coordinates:
 Ground Elevation (ft): 1936' K.B. Elevation (ft): 1946'
 Logged Interval (ft): 2900 To: 3620' Total Depth (ft): 3620'
 Formation: Lansing, Arbuckle
 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: Schuyler Hedrick
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla . 73945
 Off. 888-543-8378

DST's Report

DST# 1 3214'-3290' 5-60-30-120
 IF- WK BLW, BUILT TO 3", ISI- DEAD, FF- GD BLW, BOB IN 30 MIN, FSI- DEAD
 IH- 1603, FH- 1526/ IF- 54 TO 70, FF- 80 TO 133/ ISI- 807, FSI- 793
 REC. 165' OF TF/ 165' OF MUDDY WATER 70% WATER, 30% MUD/ API RW- .526 @ 50 DEG./ CHLOR.- 16,000

ROCK TYPES

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

ACCESSORIES

FOSSIL

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

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
- Sltly

- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn

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

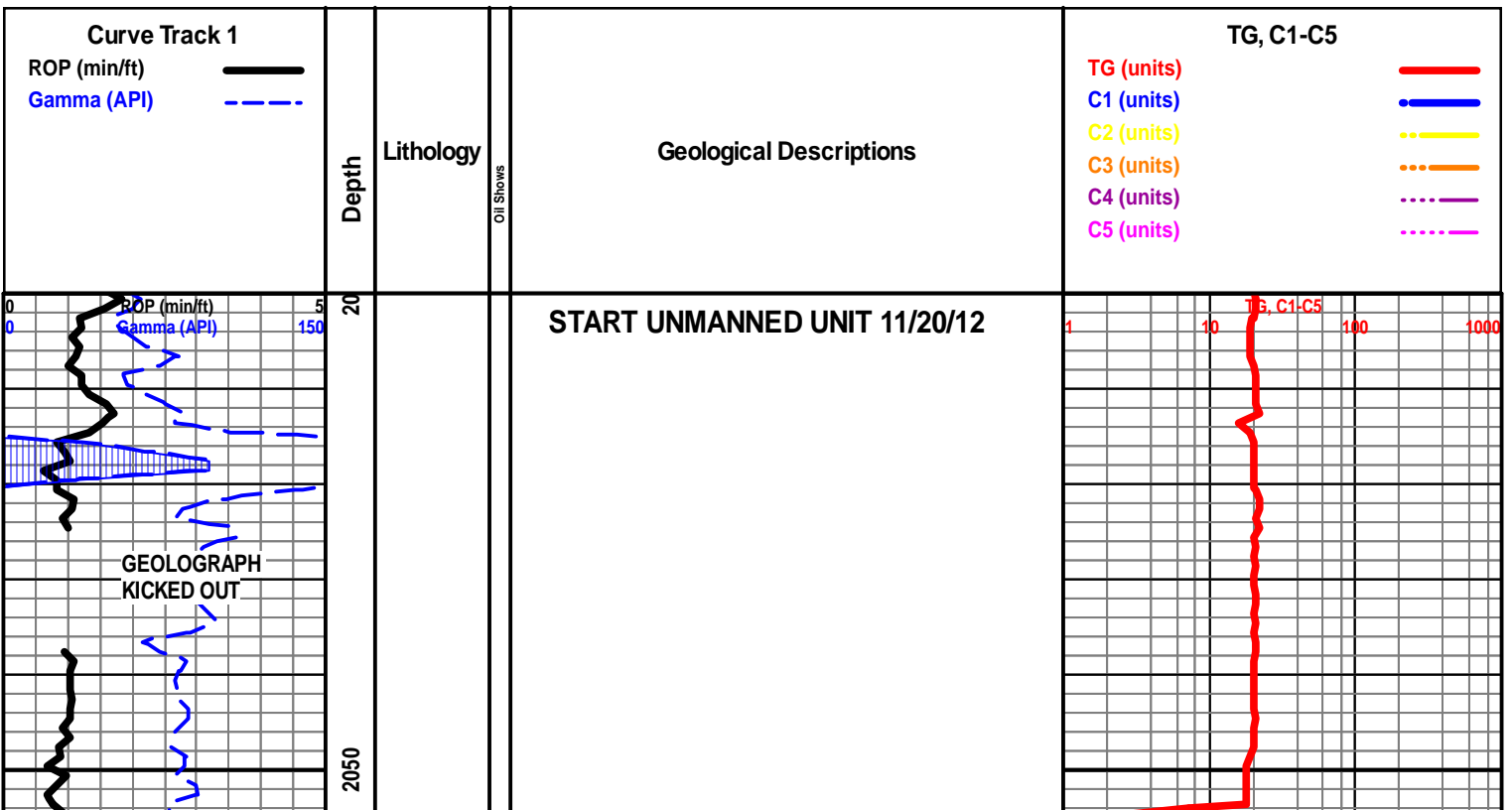
- Even
- Spotted
- Ques
- Dead
- Gas show

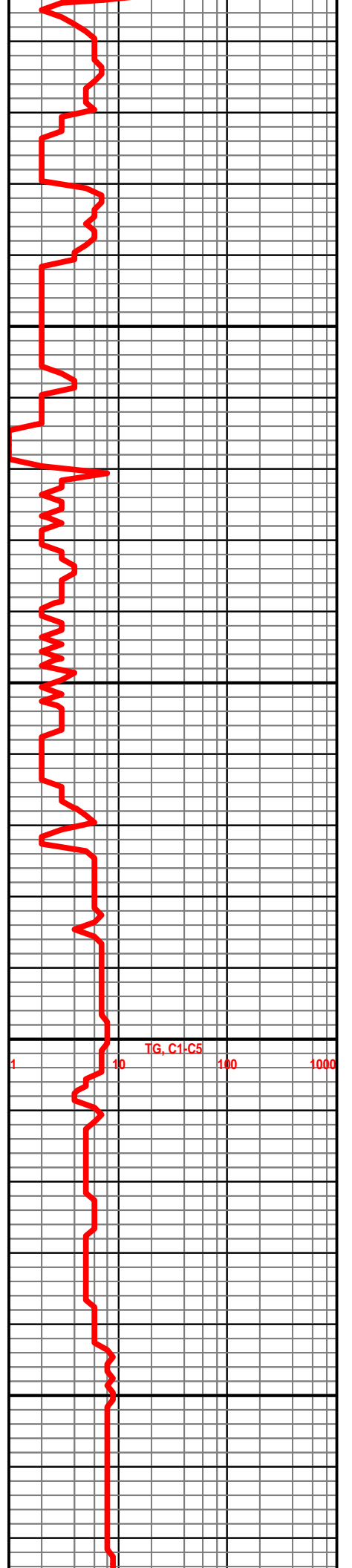
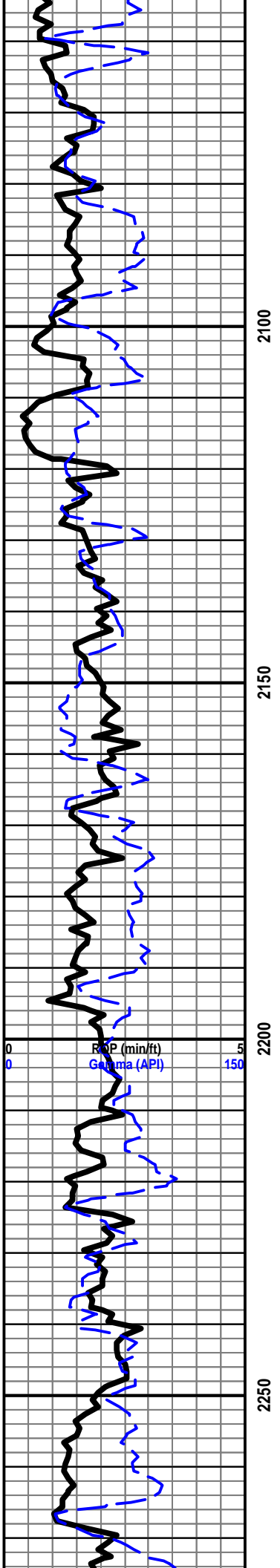
INTERVALS

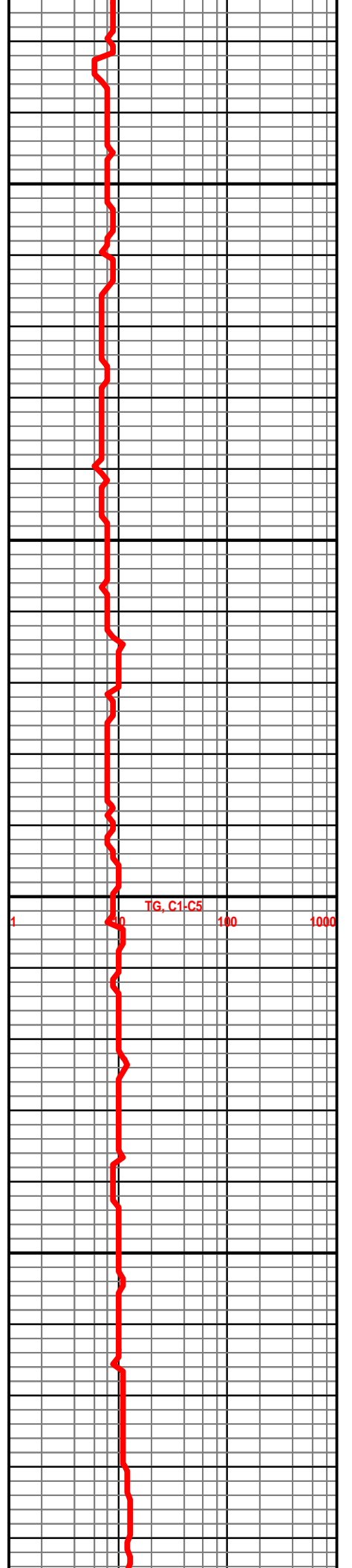
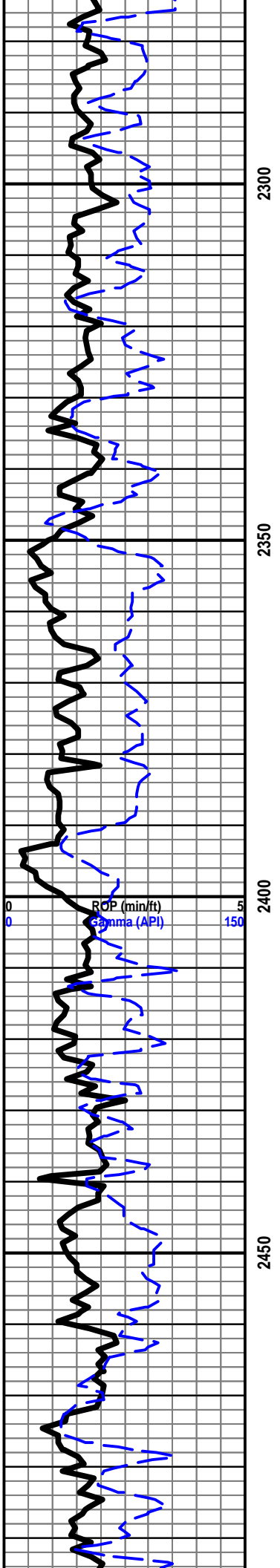
- Core
- Dst
- Dst

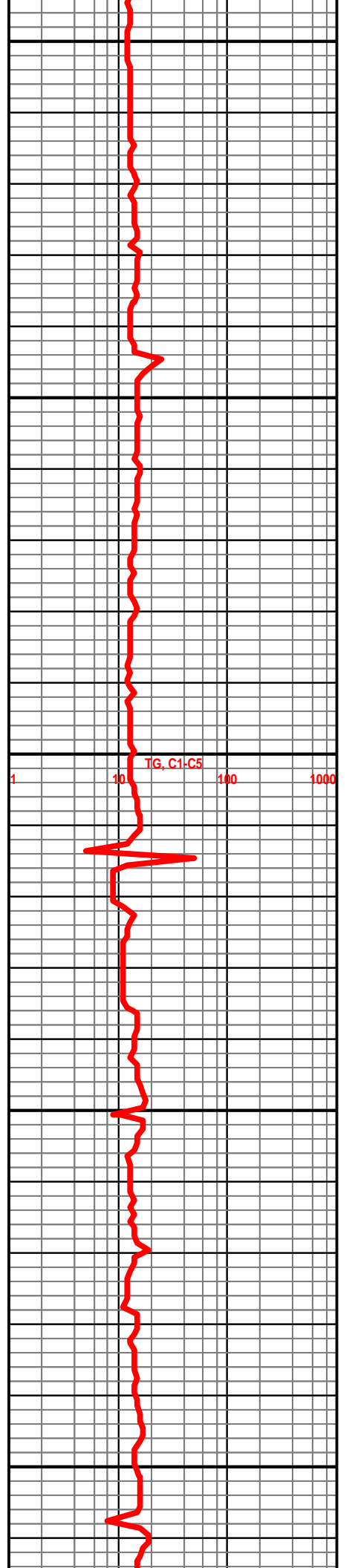
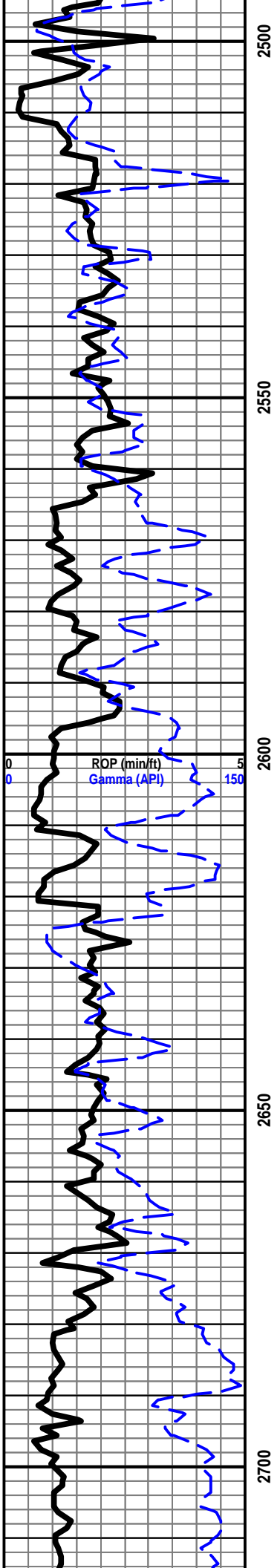
EVENTS

- Rft
- Sidewall

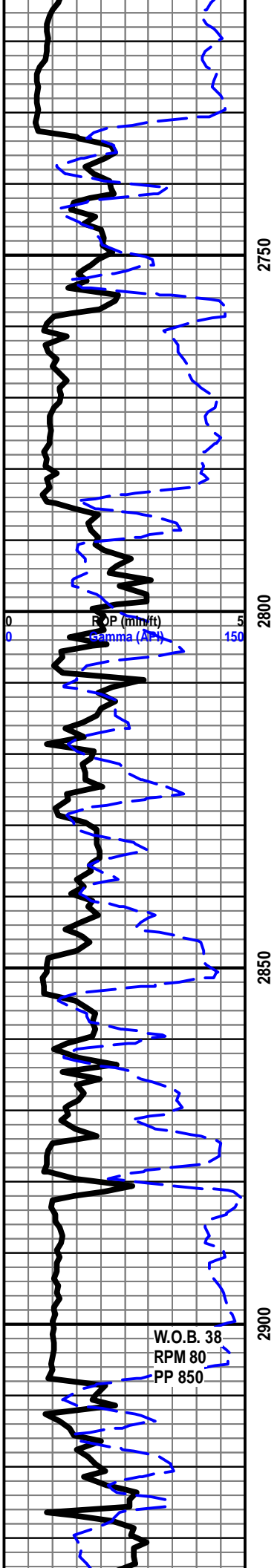








BRS 2733'-787'



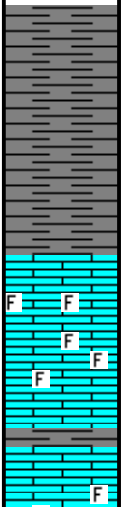
2750

2800

2850

2900

W.O.B. 38
RPM 80
PP 850

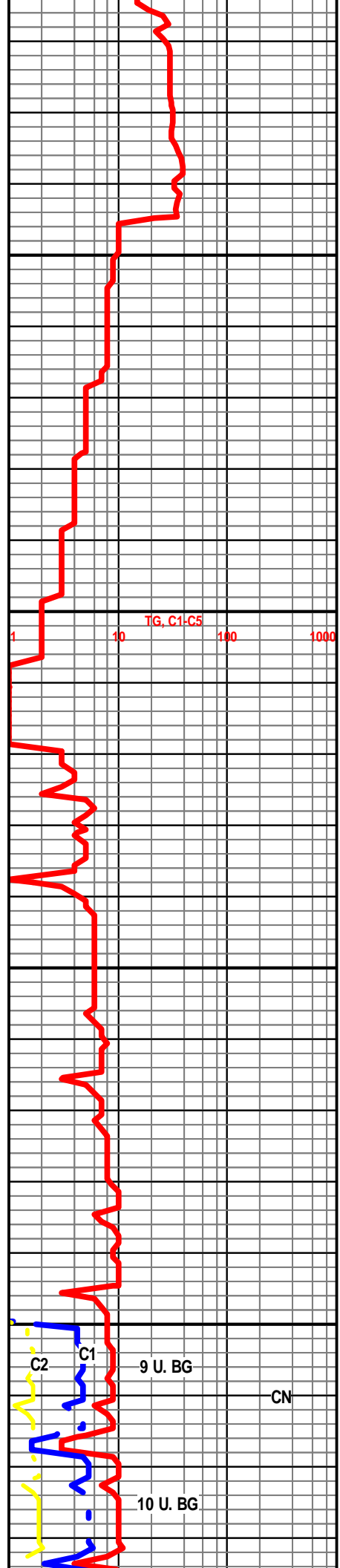


START 24HR. MANNED UNIT 11/20/12

HOWARD 2908'-962'

LS- CRM TO LT TN, HD DNS TO BRIT, MD-XLN, R-XLN
MTRX, S-CHLKY IP, ABDT IMB FOSS FRAGS THRU, SCAT
IMB CALC-XLS IP, TR SFT WHT CHLK IN TRAY, DUL YEL
FLO IN 30%, YEL FLO IN 10%, TR V PR TO PR
MICRO-VUG POR IP, NO VIS CUT OR SHOW

LS- LT GY TO GY, HD DNS TO BRIT IP, MD-XLN, RE-XLN,



TIG, C1-C5

1

10

100

1000

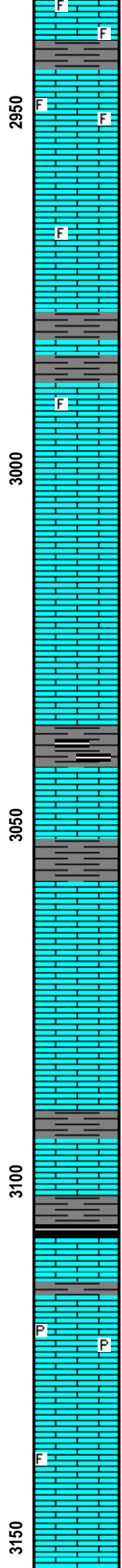
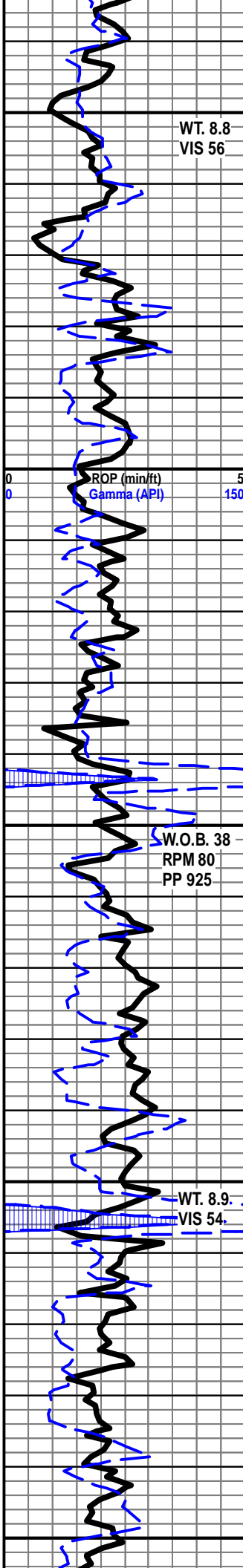
C2

C1

9 U. BG

CN

10 U. BG



S-SUCRO IP, ABDT IMB LG FOSS FRAGS THRU, SCAT FREE FOSSIL IN TRAY, DUL YEL FLO SCAT IN 30%, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN TO TN, HD DNS TO BR TT, MD-XLN, V-S-CHLKY, ABDT IMB CALC-XLS THRU, TR IMB FOSS FRAGS, ABDT SFT WHT CHLK IN TRAY, DUL YEL FLO IN 40%, NO VIS POR, NO VIS CUT OR SHOW

TOPEKA 2963'-1017'

LS- LT TN TO TN, HD DNS TO V-BR TT, MD-XLN, S-SUCRO, TR S-CHLKY IP, SCAT IMB SM TO MD CALC-XLS THRU, SLI TR IMB FOSS FRAGS IP, ABDT SFT WHT CHLK IN TRAY, NO VIS FLO, PR TO TR FR MICRO-VUG POR SCAT IN 3-4%, NO VIS CUT OR SHOW

LS- LT TN TO TN, HD DNS TO BR TT IP, MD/F-XLN MTRX, RE-XLN IP, SLI TR S-CHLKY, SCAT IMB FOSS FRAGS, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHITE TO CRM TO LT TN IP, HD DNS TO V-BR TT, MD-XLN, CHLKY MTRX, ABDT SFT WHT CHLK THRU TRAY, DUL YEL FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BR TT, MD-XLN, V-S-CHLKY THRU, ABDT SFT TO GMMY WHT CHLK IN TRAY, SLI TR IMB CALC-XLS IP, DUL YEL FLO IN 40%, YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

SH- LT GY TO GY, FRM TO V SFT, BLCKY SMTH TXT

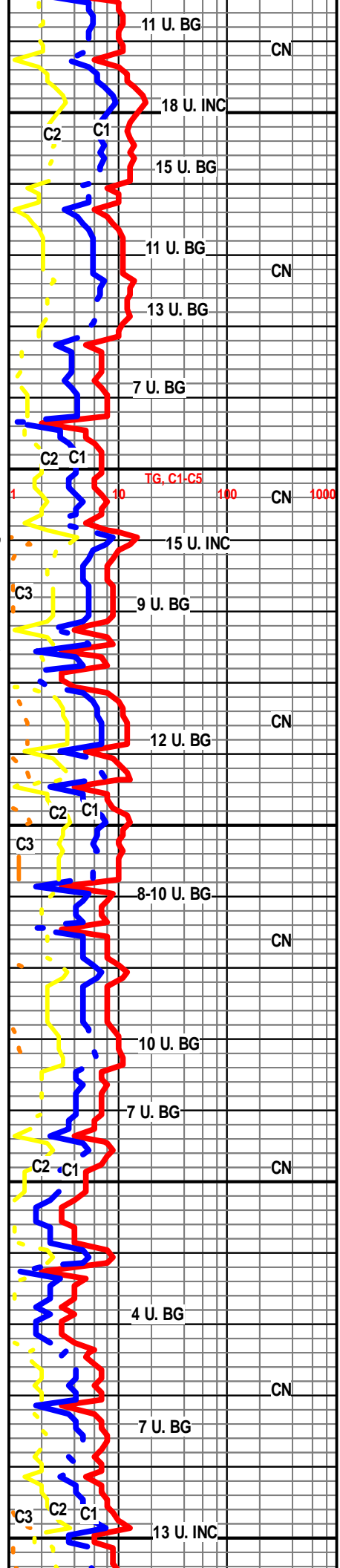
LE COMPTON 3068'-1122'

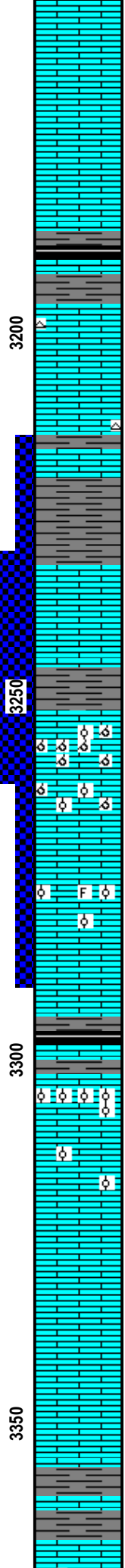
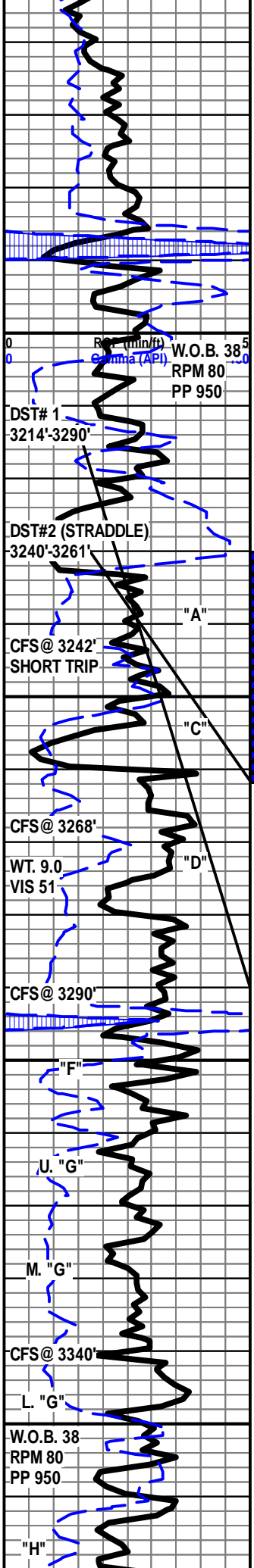
LS- OFF WHT TO CRM, V HD DNS TO TR BR TT IP, F/VF-XLN MTRX, SLI TR S-SUCRO IP, TR IMB CALC-XLS IP, DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

SH- BLCK SFT CARB, W/ GY TO DK GY, FRM TO SFT, SPLNTY

LS- OFF WHT TO CRM, HD DNS TO BR TT, MD/F-XLN MTRX, S-CHLKY, SCAT SFT WHT CHLK IN TRAY, IMB PYR IP, SLI TR IMB CALC-XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, HD DNS TO BR TT IP, MD/F-XLN MTRX, SLI TR S-CHLKY, SCAT PYR IN TRAY, SLI TR IMB FOSS FRAGS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW





LS- OFF WHT TO CRM LT TN IP, HD DNS TO BR TT, MD-XLN, RE-XLN IP, S-CHLKY, IMB SFT WHT CHLK IP, V SLI TR IMB CALC-XLS IP, DULYEL FLO IN 20%, NO VIS POR, NO VIS FLO

HEEBNER 3186'-1240'

SH- BLCK SFT CARB

LS- OFF WHT TO CRM, HD DNS TO TR BR TT IP, F/VF-XLN MTRX, TR S-CHLKY IP, TR WHT CHRT IP, V DUL YEL FLO IN 20%, NO VIS POR, NO VIS SHOW

DOUGLAS 3220'-1274'

LANSING 3234'-1288'

3234-3237' LS- CRM TO LT TN (W/ LT TN TO TN OIL STN IN 30%), V HD DNS TO SLI TR BR TT IP, MD/F-XLN MTRX, RE-XLN IP, S-SUCRO, TR S-CHLKY IP, SCAT IMB SM CALC-XLS THRU, SCAT IMB SFT WHT CHLK IP, YEL GLD FLO IN 40%, BRT YEL GLD FLO IN 20%, PR TO FR TO TR GD MICRO-VUG POR IN 2%, FR INTER-XLN POR IN 1%, TR FR VUG POR IP, PR TO FR FL SH CUT IN 20%, FR TO TR GD SLW STRM CUT IN 30%, TR LT TN LCH ON DSH, FR OIL ODOR

LANSING "C" 3252'-1306'

3255'-3260' LS- CRM TO LT TN (W/ TN TO DK TN OIL STN IN 40%), DNS TO V-BR TT, MD/XLN, RE-XLN MTRX, S-SUCRO, V-OOLMOLDIC, SCAT IMB SM OOLITES IP, TR SCAT SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 40%, SPTTD BRT YEL GLD FLO IN 10%, FR TO TR GD OOLMODIC POR IN 20%, PR TO TR FR VUG POR IN 3%, PR TO FR FL SH CUT IN 30%, FR SLW STRM CUT IN 30%, LT TN LCH ON DSH, GD OIL ODOR

3275'-3279' LS- CRM TO LT TN (W/ TN OIL STN IN 30%), HD DNS TO BR TT, MD-XLN, V S-CHLKY, IMB SFT WHT CHLK THRU, SCAT IMB OOLITES IP, TR IMB FOSS FRAGS, YEL GLD FLO IN 20%, BRT YEL GLD FLO IN 10%, PR TO TR FR INTER-XLN POR IN 3%, V PR TO PR VUG POR IN 1%, FR FL SH CUT IN 20%, FR TO SLI TR GD SLW STRM CUT IN 30%, TR LT TN LCH ON DSH, GD OIL ODOR

LANSING "F" 3301'-1355'

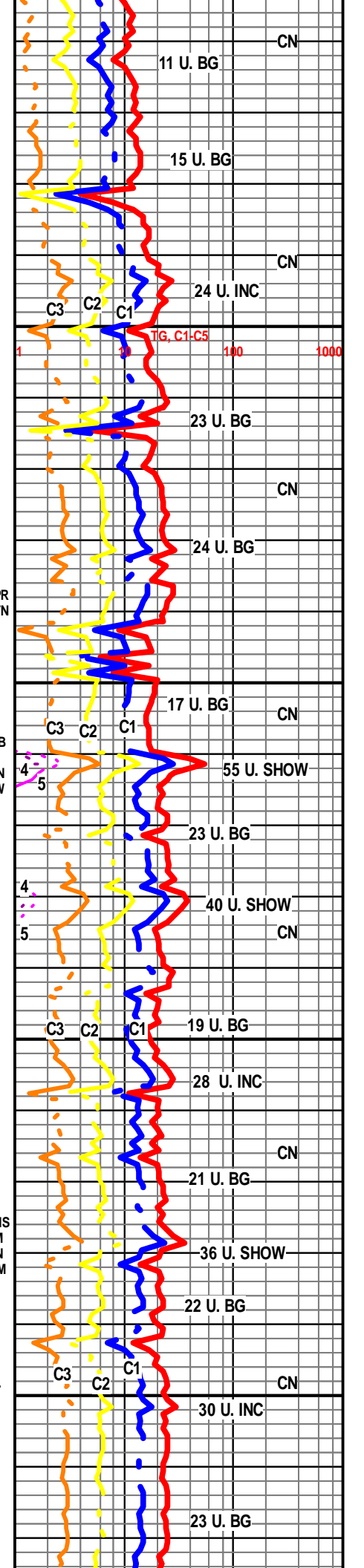
3303'-3305' LS- CRM TO LT TN (W/ TN TO DK TN OIL STN SCAT IN 30-40%), HD DNS TO BR TT IP, MD-XLN, RE-XLN MTRX, IMB SM TO MD OOLITES THRU, OOLITIC THRU, SCAT IMB SM CALC-XLS IP, V DUL YEL GLD FLO IN 20%, V PR TO PR INTER-OOLITIC POR IN 1-2%, FR TO GD FL SH CUT IN 40%, FR SLW STRM CUT IN 40%, LT TN TO TN LCH ON DSH, PR TO FR OIL ODOR

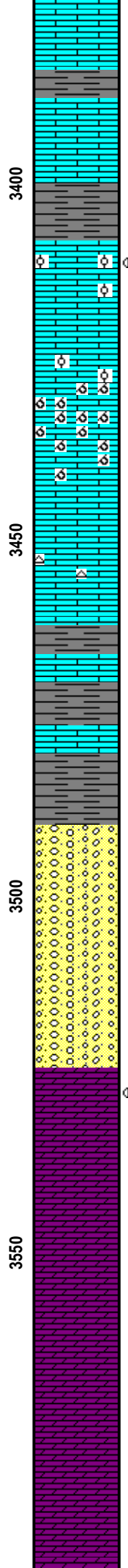
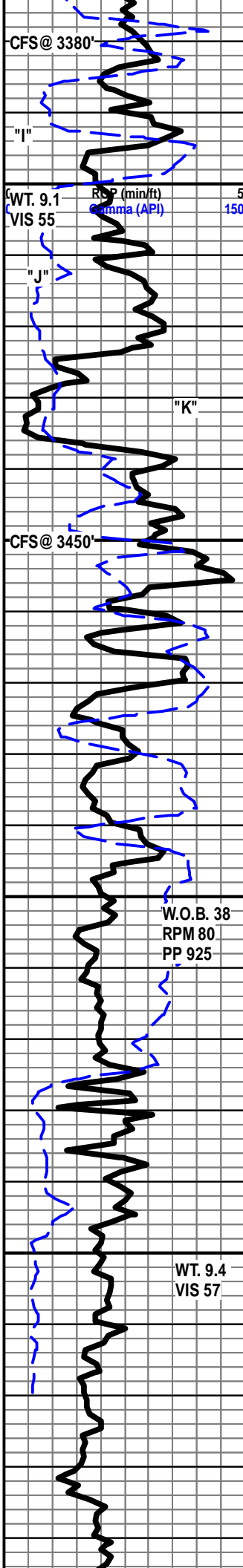
3325'-3328' LS- OFF WHT TO CRM (W/ LIVE OIL STN IN 20-30%), HD DNS TO BR TT IP, MD/F-XLN MTRX, SCAT SFT WHT CHLK IN TRAY, TR IMB SM CALC-XLS IP, SCAT BRT YEL GLD FLO IN 20%, PR TO TR FR VUG POR IN 1%, TR PR INTER-XLN POR IP, GD INST FL SH CUT IN 60%, GD SLW STRM CUT IN 60%, TN LCH ON DSH, GD OIL ODOR

LS- OFF WHT TO CRM, V HD DNS TO TR BR TT IP, F/VF-XLN MTRX, SLI TR IMB SM CALC-XLS IP, V DUL YEL FLO IN 70%, NO VIS POR, NO VIS CUT OR SHOW

LANSING "H" 3366'-1420'

LS- LT TN TO TN, V HD DNS, F/VF-XLN MTRX, TR S-SUCRO IP, SCAT SFT WHT CHLK IN TRAY, TR WHT





CHRT IN TRAY, SLI TR V DUL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN TO LT GY MOTT, V HD DNS TO TR BRIT IP, F/VF-XLN MTRX, S-CHLKY IP, SCAT SFT WHT CHLK IN TRAY, SLI TR IMB SM CALC-XLS, NO VIS FLO, NO VIS POR, NO VIS SHOW

3410'-3412' LS- LT TN TO LT GY MOTT (W/ DK TN OIL STN IN 20% ON ONE FACES OF ROCK & LIVE OIL STN IP), V HD DNS TO TR BRIT IP, MD/F-XLN MTRX, S-CHLKY, IMB SM CALC-XLS ON ONE FACES, SLI TR IMB SM OOLITES, DUL YEL GLD FLO IN 30%, SPTTD BRT YEL GLD FLO IN 10% ON ONE FACES, PR TO TR FR INTER-XLN POR IN 2%, POSS FRACT POR, FR FLSH CUT IN 40%, PR TO FR TO TR GD SLW STRM CUT IN 40%, LT TN TO TR TN LCH ON DSH, PR OIL ODOR

LS- CRM TO LT TN, DNS TO V BRIT, V-RE-XLN MTRX, S-SUCRO, S-CHLKY, V-OOLMOLDIC, SCAT SFT WHT CHLK THRU TRAY, YEL FLO IN 40%, BRT YEL FLO SCAT IN 20%, FR TO GD OOLMOLDIC POR IN 20%, NO VIS CUT OR SHOW

LS- OFF WHT TO CRM, V HD DNS, F/VF-XLN MTRX, CRYPTO-XLN IP, SCAT WHT CHRT IN TRAY, V DUL YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

BKC 3470'-1524'

SH- RD TO DK RD, FRM TO V SFT, BLCKY SMTH TXT

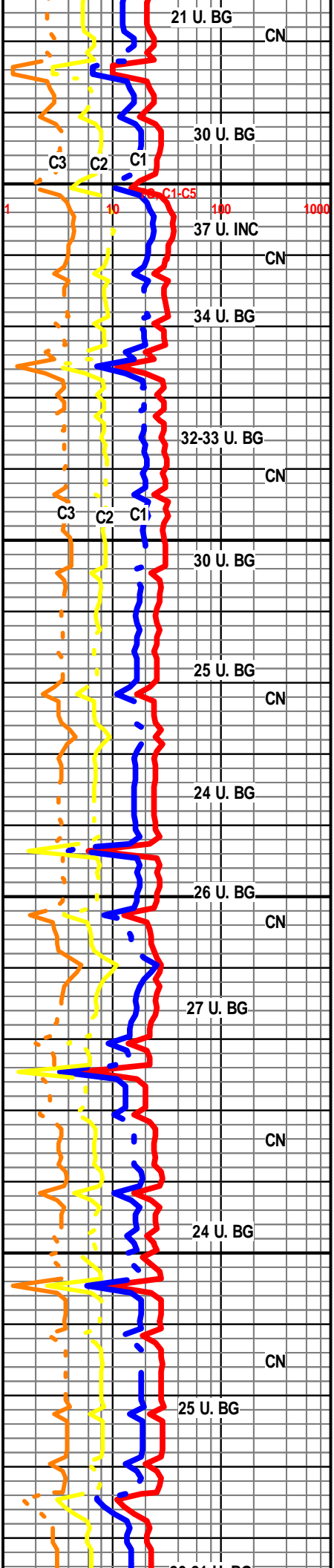
CONG- MOTTLS LS'S, W/ ABDT WHT & ORANGE CHRT, ABDT RD GMMY SH

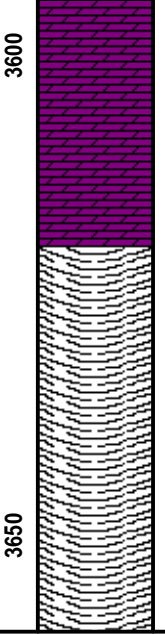
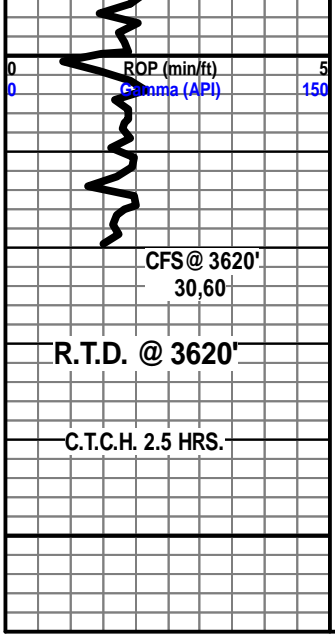
ARBUCKLE 3524'-1578'

3526'-3528' DOLO- OFF WHT TO CRM (W/ BLCK TAR STN IN 30% & D.O.S. IP, HD DNS TO TR BRIT IP, MD/FX-XLN MTRX, SLI TR S-SUCRO IP, SCAT IMB V SM S-ANG TO RND DOLO GRNS THRU, TR SFT WHT CHLK IP, NO VIS FLO, PR INTER-GRN POR IN 1%, PR TO FR FLSH CUT IN 20%, FR SLW STRM CUT IN 30%, TR DK TN LCH ON DSN, WK OIL ODOR

DOLO- WHT TO OFF WHT CRM IP, HD DNS TO BRIT IP, MD/F/VF-XLN MTRX, RE-XLN, S-SUCRO IP, ABDT IMB SM S-ANG TO RND DOLO GRNS THRU, SLI TR SFT WHT CHLK IN TRAY, V DUL YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

DOLO- OFF WHT TO CRM, HD DNS TO BRIT IP, MD/F-XLN, RE-XLN, S-CHLKY IP, ABDT IMB SM S-ANG DOLO GRNS





THRU, SCAT IMB SM TO MD RND CLR QRTZ GRNS THRU,
DUL YEL FLO IN 40%, YEL FLO IN 20%, NO VIS POR, NO
VIS CUT OR SHOW

R.T.D. @ 5:30 A.M. 11/23/12

DROP SURVEY

T.O.F.L. @ 9:15 A.M.

WEATHERFORD/ LIBERAL, KANSAS

