



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1092905
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: _____

1092905

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

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

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

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

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	WALTER ET AL 1-32
Doc ID	1092905

All Electric Logs Run

DENSITY
INDUCTION
MICRO
SONIC
SPECTRAL GR

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	WALTER ET AL 1-32
Doc ID	1092905

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3174-3176	500 GAL 28% MCA W/ 3% MAS	3174-3176
4	3196-3200	500 GAL 28% MCA W/ 3% MAS	3196-3200
4	3208-3213		3208-3213
4	3266-3272		3266-3272
4	3337-3340	500 GAL 28% MCA W/ 3% MAS	3337-3340
4	3392-3396	500 GAL 28% MCA W/ 3% MAS	3392-3396
4	3411-3414	500 GAL 28% MCA W/ 3% MAS	3411-3414
	3438	CIBP	3438
6	3448-3454		3448-3454

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

Sam Brownback, Governor

September 07, 2012

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

Re: ACO1
API 15-167-23802-00-00
WALTER ET AL 1-32
NE/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: 5/22/2012
 Invoice # 14
 P.O.#:
 Due Date: 6/21/2012
 Division: Russell

Invoice

4/21

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

RECEIVED

Reference:
 WALTER ET AL 1-32

MAY 31 2012

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

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No	Baffle Plate Aluminum, 8 5/8"	1	\$95.00	Yes
Common-Class A	325	\$ 4,185.28	Yes				
8 5/8" Basket	3	\$ 1,000.67	Yes				
Bulk Truck Matl-Material Service Charge	343	\$ 724.11	No				
Calcium Chloride	12	\$ 477.03	Yes				
8 5/8" Centralizer	3	\$ 202.67	Yes				
Pump Truck Mileage-Job to Nearest Camp	19	\$ 200.15	No				
Flo Seal	81	\$ 171.00	Yes				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	19	\$ 117.12	No				
Premium Gel (Bentonite)	6	\$ 103.11	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 8,351.87

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,252.78)

SubTotal for Taxable Items: \$ 5,394.64

SubTotal for Non-Taxable Items: \$ 1,704.45

Total: \$ 7,099.09

Tax: \$ 447.75

8.30% Russell County Sales Tax

Amount Due: \$ 7,546.85

Applied Payments:

Balance Due: \$ 7,546.85

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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DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	
Description	

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. 014

Date	5-20-12	Sec.		Twp.		Range		County	Rs	State	Rs	On Location		Finish	12:00 PM
Lease	Walter ET AL			Well No.	A+1-32			Location	Corham S to CL IN IE S15						
Contractor	Val Drlg Rig 6							Owner	To Quality Oilwell Cementing, Inc.						
Type Job	Long Surface							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	12 3/4	T.D.	734		Charge To							Sam Gory J & Assoc.			
Csg.	8 3/4	Depth	734		Street										
Tbg. Size		Depth			City							State			
Tool		Depth			The above was done to satisfaction and supervision of owner agent or contractor.										
Cement Left in Csg.		Shoe Joint			Cement Amount Ordered							325 342 41 flow			
Meas Line		Displace	23# 44/BBL												

EQUIPMENT

Pumptrk	15	No.	Cement Helper	Dave	Common	325
Bulktrk	10	No.	Driver	Levi	Poz. Mix	1
Bulktrk	00	No.	Driver	Cady	Gel.	6
				Calcium 12		

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 8 1/4"
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
Est Cir	Sand
Mixed 325 342 41 Flow	Handling 343
	Mileage

FLOAT EQUIPMENT

Cement	Guide Shoe
Cir	Centralizer 3
	Baskets 3
	AFU Inserts
	Float Shoe
Thanks	Latch Down 1 Baffle plate
	8 3/8 Head & Man
	1 8 3/8 Rubber plug
	Pumptrk Charge Long Surface!
	Mileage 19

X Signature Randy D. M... ..

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: 5/30/2012
 Invoice # 400

P.O.#:
 Due Date: 6/29/2012
 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

JUN 05 2012

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

Reference:
 WALTER ET AL 1-32

Description of Work:
 PROD LONG STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 950.65	No	Salt (Fine)	19	\$276.14	Yes
Common-Class A	225	\$ 2,857.81	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$233.21	Yes
Gilsonite	1057	\$ 1,650.66	Yes	Pump Truck Mileage-Job to Nearest Camp	19	\$197.41	No
CFL 117	176	\$ 1,128.71	Yes	Flo Seal	56	\$116.60	Yes
5 1/2" Basket	3	\$ 718.36	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	19	\$115.52	No
Bulk Truck Mat-Material Service Charge	254	\$ 528.88	No	KCL	2	\$62.17	Yes
CD-110	117	\$ 487.23	Yes				
5 1/2" Turbolizer	8	\$ 483.07	Yes				
Mud Clear	500	\$ 385.21	Yes				
Defoamer A or CAF-38	50	\$ 364.38	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 318.58	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 10,874.58

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,631.19)

SubTotal for Taxable Items: \$ 7,719.81

SubTotal for Non-Taxable Items: \$ 1,523.59

Total: \$ 9,243.39

Tax: \$ 640.74

Amount Due: \$ 9,884.14

Applied Payments:

Balance Due: \$ 9,884.14

8.30% Russell 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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DRG COM W/O LCE GG

Account	2400-217
Well/Prospect	
Deck	
AFE	
Approval	AA
Description	

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. 400

Date	5-25-12	Sec.	32	Twp.	15	Range	15	County	RUSSELL	State	KANSAS	On Location		Finish	5:15pm
------	---------	------	----	------	----	-------	----	--------	---------	-------	--------	-------------	--	--------	--------

Lease WATERBETAL Well No. 1-32 Location GORHAM STO MICHAELS RD - 1 E - S INTO

Contractor VAL DETTLING #6 Owner SAM GARY JR & ASSOC.

Type Job PROD. STRING 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 T.D. 3565' Charge To SAM GARY JR & ASSOC.

Csg. 5 1/2" - 15# LB NEW Depth 3557.49 Street 1515 WYNDKOOP, STE 700

Tbg. Size Depth City DENVER State COLORADO, 80202

Tool Depth Cement Left in Csg. Shoe Joint 43' The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line Displace 83 3/4 Cement Amount Ordered 2250 - PROD - 10% SALT 5% GUMS NITE

EQUIPMENT 4 EDITION - 3% CD 10 - 8% CFL - 117 - CDF 38

Pumptrk # 15 No. Cementer NECK Helper Common 225

Bulktrk # 14 No. Driver LONNIE Poz. Mix

Bulktrk # 11 No. Driver STEVE Driver STEVE Gel. KCL 2 gal

JOB SERVICES & REMARKS Calcium CD 116 117#

Remarks: Hulls

Rat Hole 30 SKS Salt 19

Mouse Hole 25 SKS Flowseal 56 #

Centralizers 1, 3, 5, 7, 9, 11, 13, 15 Kol-Seal 1057#

Baskets 3, 9, 15 Mud CLR 48 500 gal

D/V or Port Collar CFL-117 or CD110 CAF 38 - 50#

ESTABLISHED CIRCULATION 1 HOUR Sand 176#

PUMPED 500 GAL OF MUD CLR 48, PLUGGED Handling 254

RATHOLE 30 SKS, MOUSE HOLE 25 SKS, Mileage

PUMPED 180 SKS IN 5 1/2" DISCONNECTED FLOAT EQUIPMENT

WORKED UP, RE-CONNECTED, PUMPED Guide Shoe

PLUG DOWN 83 3/4 BLS PLUGGED Centralizer 8 - TURBOS

LANDED & HELD Baskets 3 5 1/2

AFU Inserts

Float Shoe 1 - 5 1/2"

LIFT PRESS. 800# Latch Down 1 - 5 1/2" WITH PLUG

LANDED @ 1400# 20 BBL - KCL

Pumptrk Charge PROD Long String

Mileage 19

Tax

Discount

Total Charge

X Signature 



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

Date: 6/6/2012
 Invoice # 970

P.O.#:
 Due Date: 7/6/2012
 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:
 WALTER ET AL 1-32

Description of Work:
 SQUEEZ JOB

RECEIVED
 JUN 12 2012
 SAMUEL GARY JR.
 & ASSOCIATES, INC.

<input type="checkbox"/> DRLG	<input checked="" type="checkbox"/> COMP	<input type="checkbox"/> W/O	<input type="checkbox"/> LOE	<input type="checkbox"/> GG
Account	8300.238			
Well/Prospect				
Deck				
AFE				
Approval	[Signature]			
Description				

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	200	\$ 2,649.14	Yes				
Bulk Truck Matl-Material Service Charge	202	\$ 438.63	No				
Pump Truck Mileage-Job to Nearest Camp	19	\$ 205.87	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	19	\$ 120.47	No				
Sand	2	\$ 36.61	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,442.11
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (666.32)

SubTotal for Taxable Items:	\$ 2,282.89
SubTotal for Non-Taxable Items:	\$ 1,492.91
Total:	\$ 3,775.80
Tax:	\$ 189.48
Amount Due:	\$ 3,965.28
Applied Payments:	
Balance Due:	\$ 3,965.28

8.30% Russell 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. 970

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-4-12				Russell	Kansas		3:00pm
Lease <i>Walker Et Al</i>	Well No. <i>1-32</i>	Location <i>Garham S. to Michaelis Rd IE</i>					
Contractor <i>ACE Well Service</i>				Owner			
Type Job <i>Squeeze</i>				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	T.D.		Charge To <i>Sambury Tr & Assoc</i>				
Csg. <i>5 1/2</i>	Depth		Street				
Tbg. Size <i>2 3/8</i>	Depth		City				
Tool	Depth		State				
Cement Left in Csg.	Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace <i>1838T 214C</i>		Cement Amount Ordered <i>200 Common</i>				
EQUIPMENT				<i>2 Sand on side</i>			
Pumptrk <i>15</i>	No.	Cementer	Common <i>200</i>				
		Helper					
Bulktrk <i>10</i>	No.	Driver	Poz. Mix				
		Driver					
Bulktrk	No.	Driver	Gel.				
		Driver					
JOB SERVICES & REMARKS				Calcium			
Remarks:				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
<i>Perks @ 3266-3272 & 3337-3340</i>				Sand <i>2</i>			
<i>RTP @ 3375</i>				Handling <i>202</i>			
<i>Spot sand @ 3354</i>				Mileage			
<i>Packer @ 3196 to squeeze</i>				FLOAT EQUIPMENT			
<i>Trk 3E BPM @ 500 psi</i>				Guide Shoe			
<i>Mix 200 ex Hold 1000 psi</i>				Centralizer			
<i>Wash Clean Full 2 sts &</i>				Baskets			
<i>Start in @ 500 psi</i>				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge			
				Mileage <i>Squeez 19</i>			
				Tax			
				Discount			
				Total Charge			
X Signature <i>[Signature]</i>							



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary, Jr & Associates

32-15s-15w-Russell

1515 Wynkoop St
Suite 700
Denver Co 80202
ATTN: Clayton Camozzi

Walter etal 1-32

Job Ticket: 44799

DST#: 1

Test Start: 2012.05.23 @ 14:28:09

GENERAL INFORMATION:

Formation: **Lansing A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:18:39

Time Test Ended: 22:25:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

Interval: 3148.00 ft (KB) To 3224.00 ft (KB) (TVD)

Total Depth: 3224.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1919.00 ft (KB)

1909.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8321

Inside

Press @ Run Depth: 78.76 psig @ 3153.00 ft (KB)

Start Date: 2012.05.23

End Date: 2012.05.23

Start Time: 14:28:10

End Time: 22:24:39

Capacity: 8000.00 psig

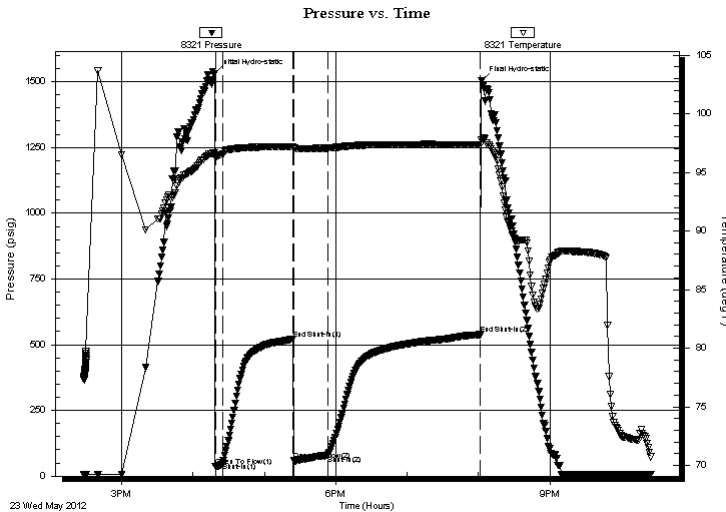
Last Calib.: 2012.05.23

Time On Btm: 2012.05.23 @ 16:18:09

Time Off Btm: 2012.05.23 @ 20:02:39

TEST COMMENT: IFP-5-min-Good blow BOB in 5 min
ISI-60-min-Dead no blow back
FFP-30-min-Strong blow BOB in 30 sec
FSI-120-min-Weak Blow built to 1 in Died out in 80 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1530.00	96.68	Initial Hydro-static
1	37.93	96.38	Open To Flow (1)
7	51.37	96.53	Shut-In(1)
66	521.69	97.20	End Shut-In(1)
67	59.25	97.11	Open To Flow (2)
95	78.76	97.07	Shut-In(2)
224	538.89	97.37	End Shut-In(2)
225	1504.03	97.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
146.00	GOCM 15%G 10%O 75%M	2.05
0.00	738-GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary, Jr & Associates

32-15s-15w-Russell

1515 Wynkoop St
Suite 700
Denver Co 80202

Walter etal 1-32

Job Ticket: 44799

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.05.23 @ 14:28:09

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 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
146.00	GOCM 15%G 10%O 75%M	2.048
0.00	738-GIP	0.000

Total Length: 146.00 ft Total Volume: 2.048 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

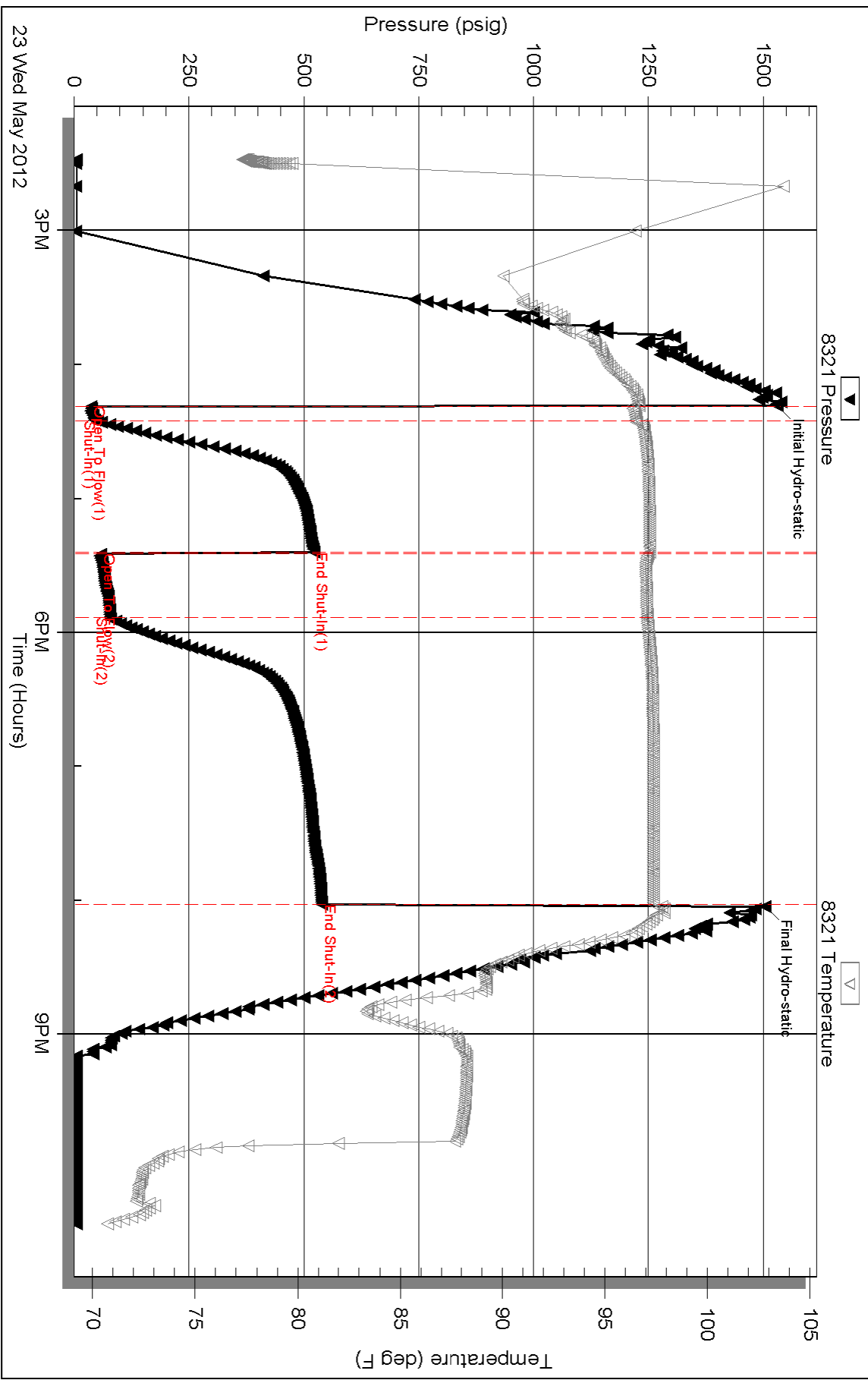
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



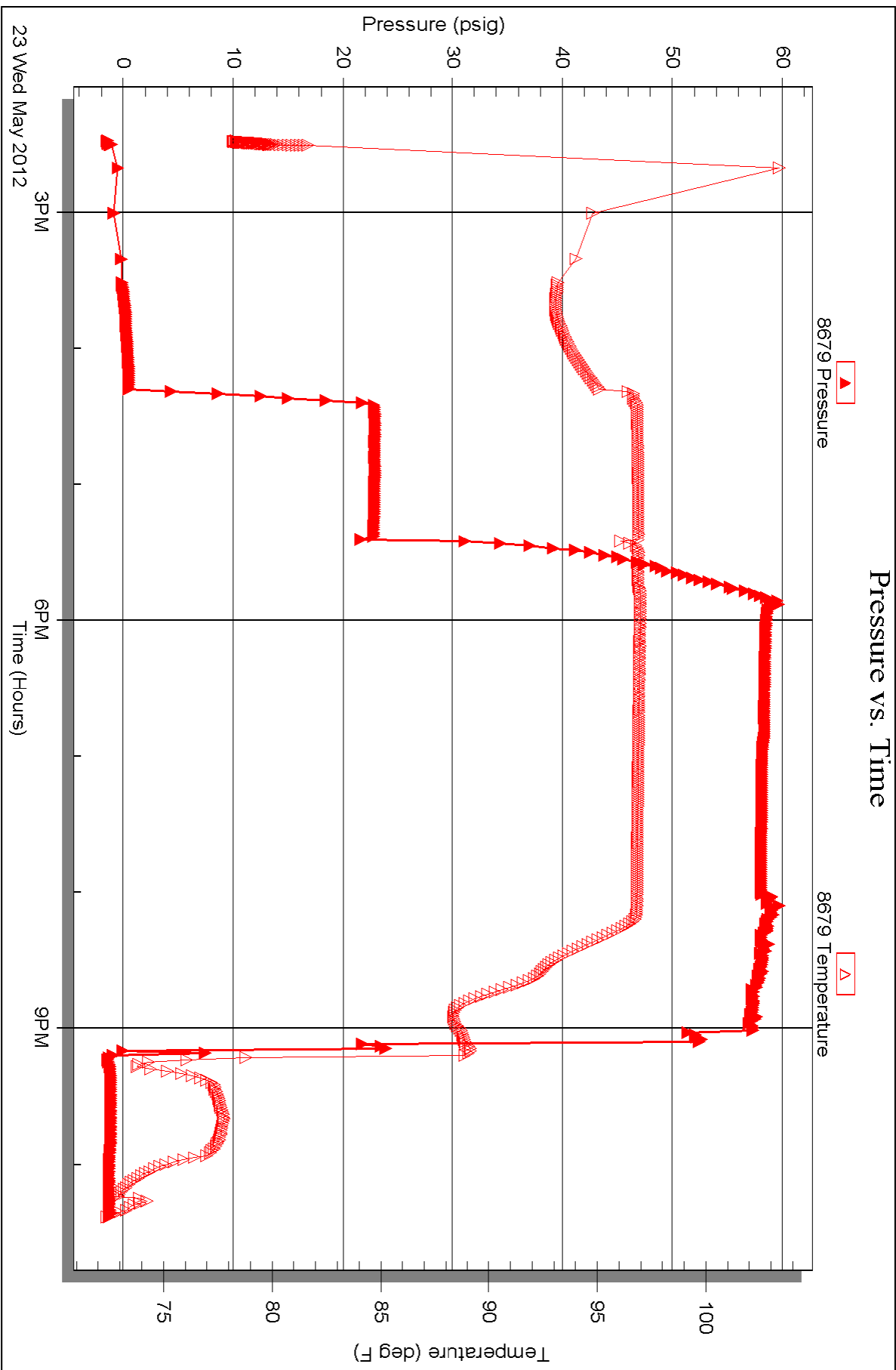
Serial #: 8679

Fluid

Samuel Gary, Jr & Associates

Waller etal 1-32

DST Test Number: 1



23 Wed May 2012 3PM

6PM Time (Hours)

9PM



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

Well Name: Walter et al 1-32
 Location: Sec. 32-15S-15W RUSSELL CO., KS
 License Number: 15-167-23802-0000
 Spud Date: 5/19/12
 Surface Coordinates: 110' FNL/ 765' FEL
 Region: Wildcat
 Drilling Completed: 5/24/12

Bottom Hole Coordinates:
 Ground Elevation (ft): 1909' K.B. Elevation (ft): 1919'
 Logged Interval (ft): 1800' To: 3565' Total Depth (ft): 3565'
 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 3148'-3224' 5-60-30-120
 IF- GD BLW BOB IN 5 MIN, ISI- DEAD NO BLW BACK, FF- STRNG BLW BOB IN 30 SEC, FSI- WK SURF. BLW
 BACK BUILT TO 1' DIED OUT IN 80 MIN
 IH- 1530, FH- 1504/ IF- 38 TO 51, FF- 59 TO 79/ ISI- 522, FSI- 539
 REC. 146' OF TF/ 146' OF GOCM 15% GAS, 10% OIL, 75% MUD/ 738' GIP/ BHT- 97, CHLOR.- 4400

ROCK TYPES

Anhy	Gyp	Shgy	Sandylms
Bent	Igne	Sltst	Shale
Brec	Lmst	Ss	Sltstn
Cht	Meta	Till	Shlysits
Clyst	Mrlst	Carb sh	Sitysh
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	Sltstn
Carb	Sand	Strom	
Chtdk	Sity	Fuss	
Chtlt		Oomold	
Dol	FOSSIL	STRINGER	TEXTURE
Feldspar	Algae	Anhy	Boundst
Ferrpel	Amph	Arg	Chalky
Ferr	Belm	Bent	Cryxln
Glau	Bioclst	Coal	Earthy
Gyp	Brach	Dol	Finexln
Hvymin	Bryozoa	Gyp	Grainst
Kaol	Cephal	Ls	Lithogr
Marl	Coral	Mrst	Microxln
Minxl	Crin	Sltstrg	Mudst
Nodule	Echin	Ssstrg	Packst
Phos	Fish	Carbsh	Wackest
Pyr	Foram		

OTHER SYMBOLS

POROSITY TYPE

- E Earthy
- B Fenest
- F Fracture
- X Inter
- A Moldic
- O Organic
- P Pinpoint
- V Vuggy

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- r Subrnd
- a Subang

- A Angular

OIL SHOWS

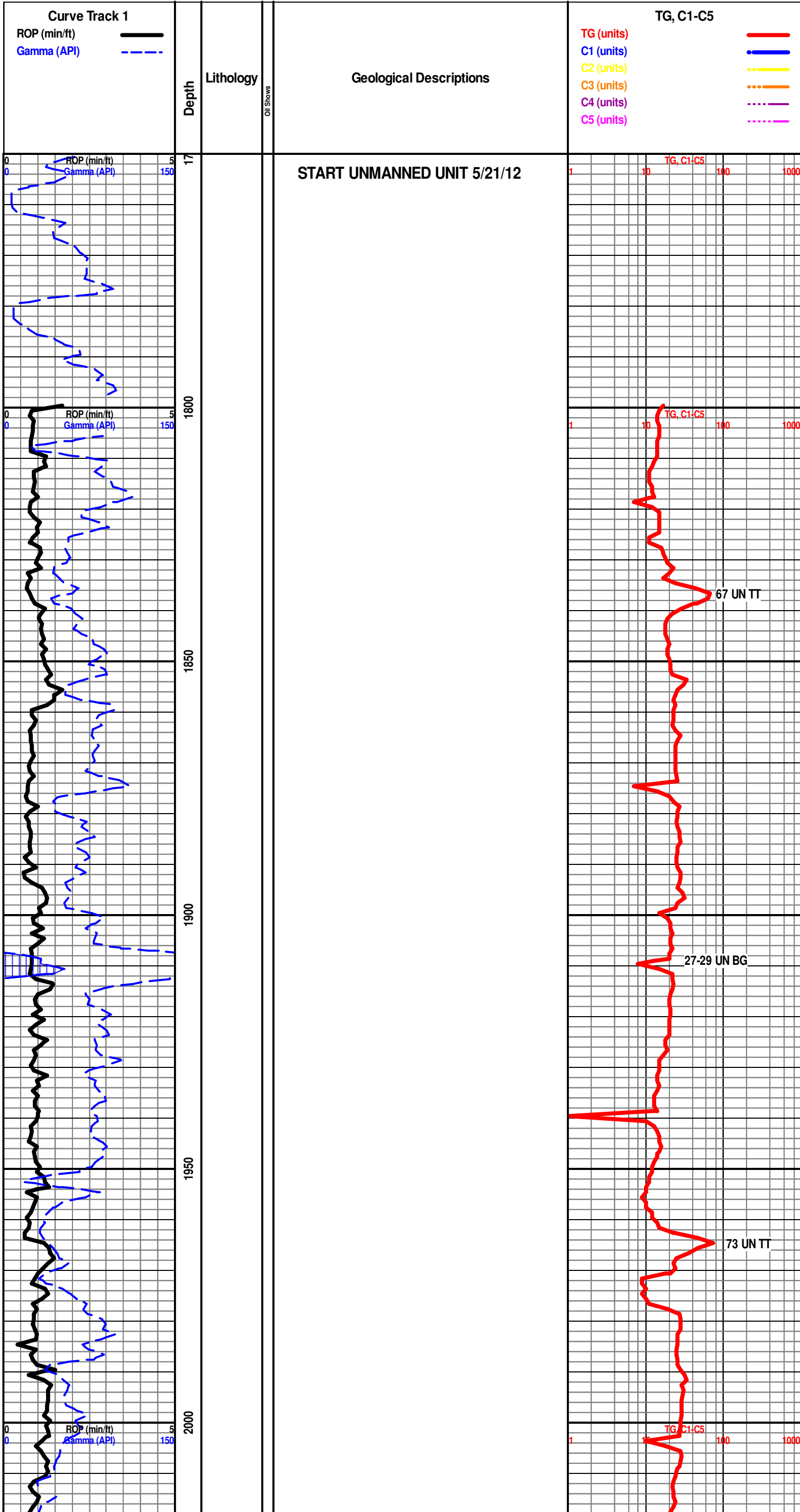
- Even
- ◐ Spotted
- ◑ Ques
- ◒ Dead
- ⊠ Gas show

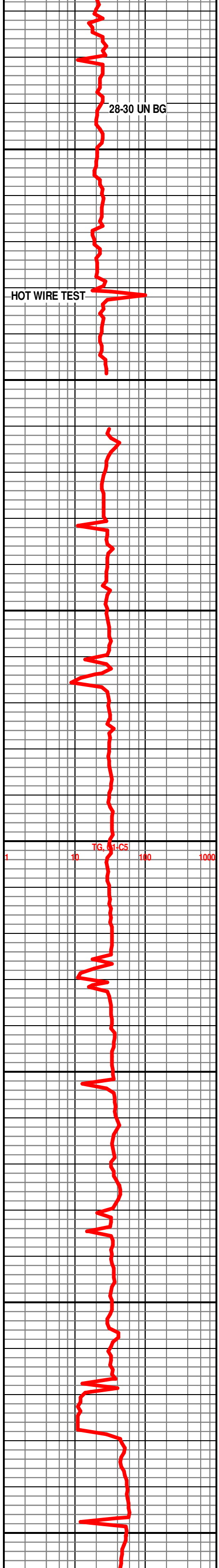
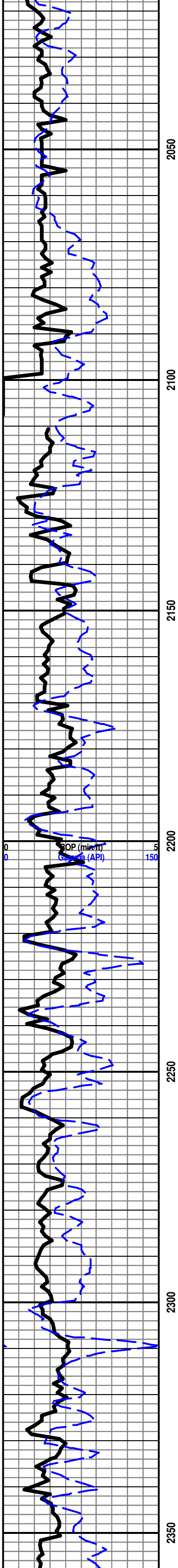
INTERVALS

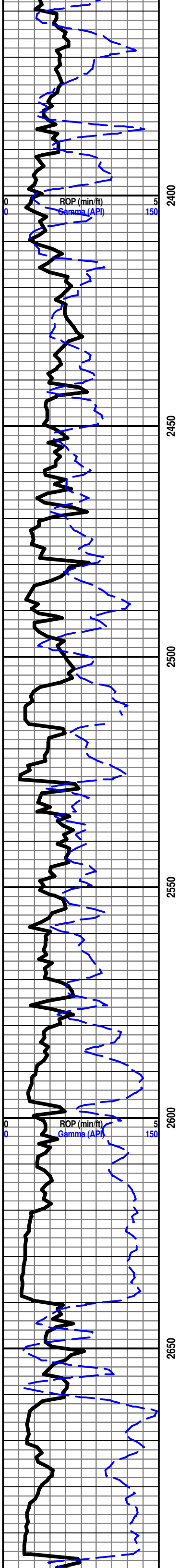
- Core
- Dst
- Dst

EVENTS

- ▤ Rft
- ▥ Sidewall







2400

2450

2500

2550

2600

2650

ROP (min/ft)
Gamma (API)

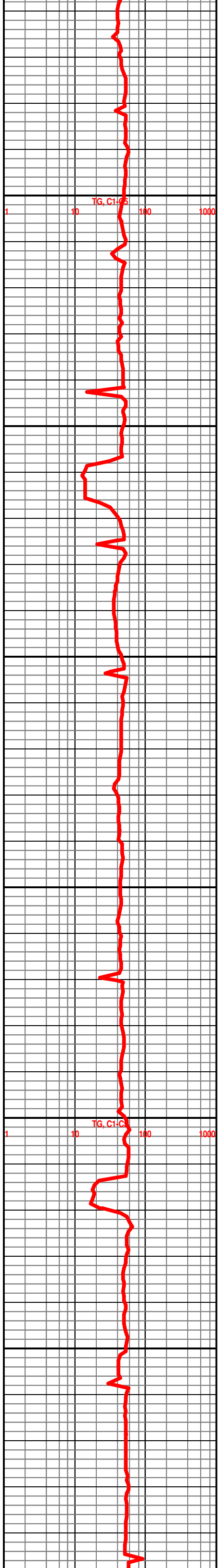
0
0

50
150

0
0

50
150

BRS 2639'-720'



TG, C1-C5

1

10

100

1000

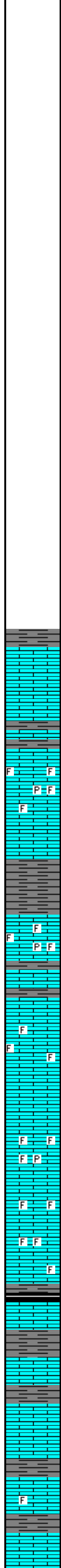
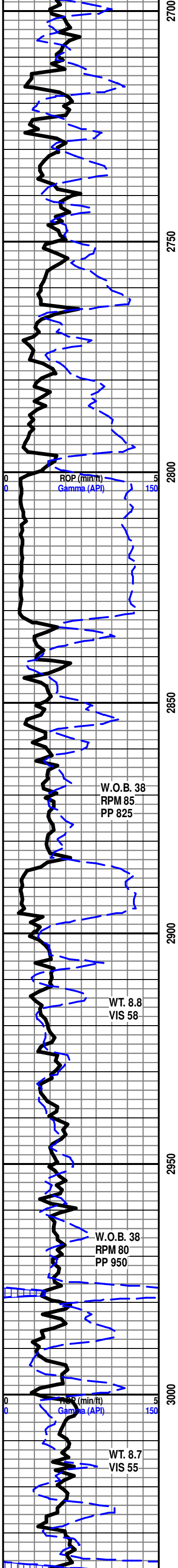
TG, C1-C5

1

10

100

1000



MUD DISPLACEMENT

HOWARD 2831'-912'

START 24HR. MANNED UNIT 5/22/12

LS- CRM TO LT TN, HD DNS TO BRIT, MD/F-XLN MTRX, S-SUCRO IP, IMB SM CALC-XLS IP, TR SCAT FREE CALC-XLS IP, DUL YEL FLO IN 60%, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN TO LT GY MOTT, HD DNS TO BRIT, MD/XLN MTRX, S-CHLKY IP, IMB LG FOSS FRAGS, TR SCAT SFT WHT CHLK IP, SLI TR DISS PYR IP, V DUL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

SEVERY 2884'-965'

SH- LT GY TO LT GRN IP, SFT TO V GMMY THRU, SMTH TXT

TOPEKA 2896'-977'

LS- LT TN TO TN, HD DNS TO BRIT, MD/F-XLN MTRX, RE-XLN IP, TR S-SUCRO IP, ABDT IMB FOSS FRAGS, IMB CALC-XLS IP, TR IMB PRY IP, DUL YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN TO LT GY MOTT, HD DNS TO V-BRIT, MD-XLN RE-XLN MTRX, S-CHLKY IP, IMB FOSS FRAGS IP, TR V DUL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BRIT IP, MD-XLN, RE-XLN IP, S-SUCRO, S-CHLKY IP, ABDT IMB FOSS FRAGS TRU, SCAT DISS PYR IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

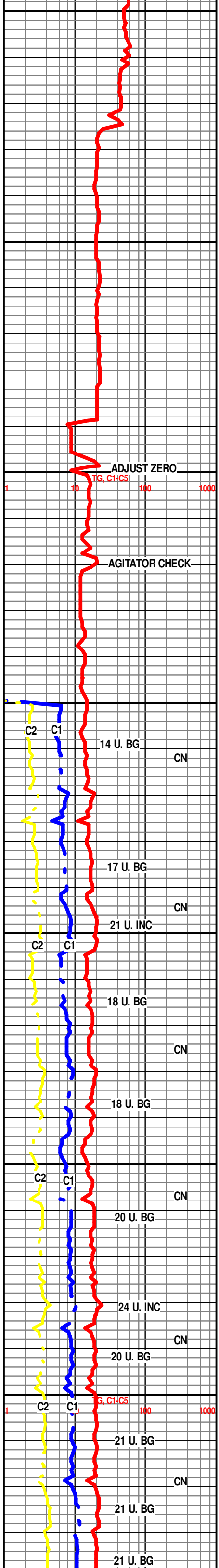
LS- LT GY TO GY, HD DNS TO BRIT IP, MD/F-XLN, RE-XLN MTRX, ABDT IMB FOSS THRU, TR SCAT FREE FOSSIL IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

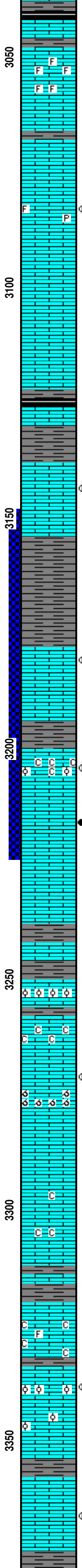
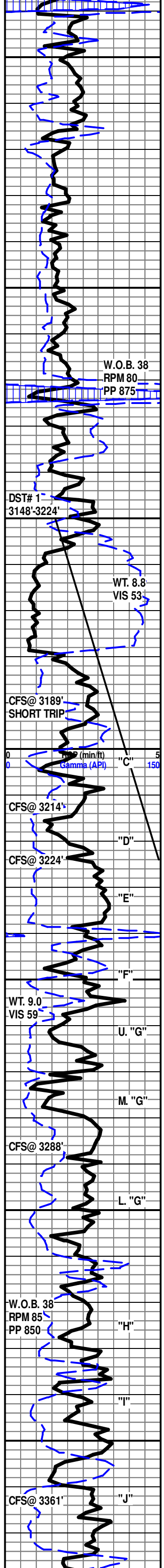
SH- BLCK SFT CARB, W/ GY, FRM SFT, BLCKY SMTH TXT

LE COMPTON 3000'-1081'

LS- OFF WHT TO CRM, V HD DNS TO TR BRIT IP, F/VF-XLN MTRX, RE-XLN IP, S-CHLKY IP, V DUL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BRIT IP, MD/F-XLN MTRX, S-CHLKY IP, IMB FOSS FRAGS IP, TR IMB CALC-XLS IP, TR V DUL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW





SH- BLCK SFT CARB

LS- LT TN TO TN, HD DNS TO BRTT IP, MD/F-XLN MTRX, RE-XLN IP, S-SUCRO IP, ABDT IMB FOSS FRAGS THRU, SCAT IMB CALC-XLS IP, TR SCAT FREE FOSSILS, DUL YEL FLO IN 70%, NO VIS POR, NO VIS CUT OR SHOW

3082'-3083' LS- OFF WHT TO CRM, W/ LIVE OIL STN SCAT IN 30%, HD DNS TO BRTT IP, MD-XLN MTRX, RE-XLN IP, S-SUCRO, SCAT PYR IP, TR SCAT FREE FOSSIL IP, V DUL YEL FLO IN 5%, PR TO TR FR MICRO-VUG POR SCAT IN 10%, PR VUG POR IN 5%, GD FLUSH CUT IN 40%, GD SLOW STRM CUT IN 60%, TN LCH ON DSH, FR OIL ODOR

HEEBNER 3121'-1202'

SH- SFT BLCK CARB

3143'-3145' LS- OFF WHT TO TN (DUE TO OIL STN IN 50%, HD DNS TO BRTT THRU RE-XLN MTRX, S-SUCRO THRU, YEL GLD FLO IN 70%, BRT YEL GLD FLO IN 20%, FR INTER-XLN POR IN 10%, PR MICRO VUG POR IN 5%, GD FLUSH CUT IN 60%, GD SLOW STRM CUT IN 60%, TN LCH ON DSH, TR SCAT OIL SPECS IN TRAY, NO OIL ODOR

DOUGLAS 3153'-1234'

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

LANSING 3179'-1260'

3180'-3181' LS- LT TN TO TN, W/ DK TN OIL STN IN 30%, V HD DNS TO TR BRTT IP, MD/F-XLN MTRX, S-SUCRO THRU, S-CHLKY IP, SCAT IMB CALC-XLS THRU, IMB SH IP, DUL YEL GLD FLO IN 20%, PR TO FR INTER-XLN POR IN 5%, PR VUG POR IP, POSS FRACT POR, GD FLSH CUT IN 50%, GD SLW STRM CUT IN 50%, TN LCH ON DSH, GD OIL ODOR

LANSING "C" 3201'-1282'

3203'-3205' LS- CRM TO LT TN W/ TN OIL STN IN 20%, HD DNS TO BRTT, MD-XLN, RE-XLN, S-CHLKY THRU, ABDT SFT WHT CHLKY IN TRAY, SCAT IMB OOLITES IP, DUL YEL GLD FLO IN 40%, BRT YEL GLD FLO IN 30%, FR TO TR GD VUG POR IN 20%, PR MICRO VUG POR IN 5%, FR FLSH CUT IN 40%, GD SLOW STRM CUT IN 60%, TN LCH ON DSH, LT OIL ODOR, W/ STRNG SULPHUR ODOR

3215'-3217' LS- LT TN TO TN, W/ DK TN OIL STN IN 30%, W/ BLEEDING LIVE OIL STN SCAT IN 20%, HD DNS TO V BRTT, RE-XLN MTRX, S-SUCRO THRU, S-CHLKY IP, DUL YEL GLD FLO IN 60%, SPTD BRT YEL GLD FLO IN 10%, GD VUG POR IN 30%, FR SCAT MICRO-VUG POR IN 5%, GD FLSH CUT THRU, EXCEL SLW STRM MILKY BLUE CUT IN 80%, DK TN LCH ON DSH, GD STRNG OIL ODOR

LANSING "F" 3249'-1330'

LS- LT TN TO TN, V HD DNS TO TR BRTT IP, MD/F-XLN, ABDT IMB OOLITES THRU, V OOLITIC, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO CRM, HD DNS TO V BRTT, MD/XLN, CHLKY MTRX, ABDT SFT WHT CHLK THRU TRAY, BRT YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

3271'-3272' LS- OFF WHT TO TN DUE TO OIL STN IN 30%, HD DNS TO BRTT IP, MD/F-XLN MTRX, S-CHLKY THRU, S-SUCRO IP, TR SCAT IMB CALC-XLS IP, BRT YEL GLD FLO IN 40%, DUL YEL GLD FLO IN 20%, FR MICRO-VUG POR SCAT IN 15%, TR PR VUG POR IP, POSS FRACT POR, FR FLSH CUT IN 30%, FR SLW STRM CUT IN 40%, LT TN LCH ON DSH, LT OIL ODOR

LS- CRM TO LT TN, HD DNS TO BRTT, F/XLN MTRX, RE-XLN IP, S-CHLKY, SCAT SFT WHT CHLK, IMB PYR IP, DUL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

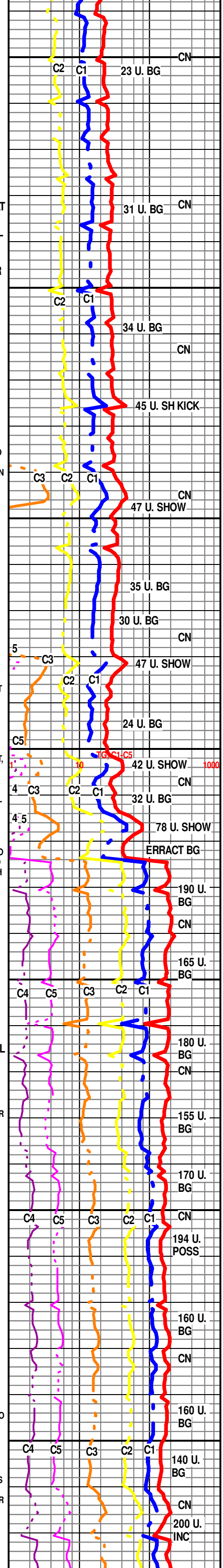
LANSING "H" 3318'-1399'

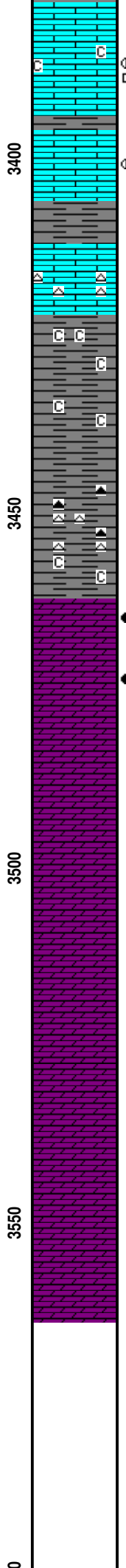
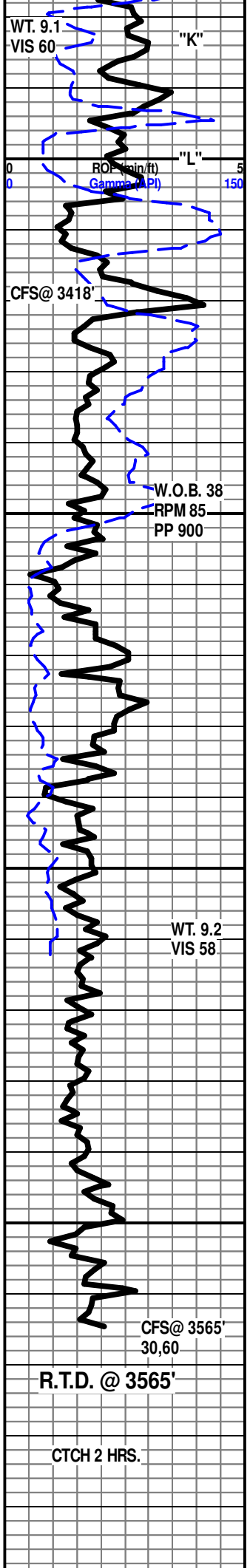
LS- LT TN TO TN, HD DNS TO BRTT, MD-XLN, CHLKY MTRX, ABDT SFT WHT CHLK THRU TRAY, IMB FOSS FRAGS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

3338'-3340' LS- CRM TO LT TN, W/ LT TN OIL STN IN 50%, HD DNS TO BRTT THRU, V RE-XLN MTRX, S-SUCRO, ABDT IMB OOLITES THRU, V OOLITIC, OOLITES @ POINT MTRX, YEL GLD FLO IN 70%, BRT YEL GLD FLO IN 20%, FR INTER-OOLITIC POR IN 20%, FR FLSH CUT IN 40%, FR TO TR GD SLW STRM CUT IN 60%, FR OIL ODOR

3365'-3367' LS- OFF WHT TO CRM, W/ V LT TN OIL STN IN 20%, HD DNS TO BRTT IP, MD/F-XLN MTRX, RE-XLN IP, ABDT IMB CALC-XLS THRU, BRT YEL GLD FLO IN 15%, NO FLO IN 85%, PR TO TR FR INTER-XLN POR IN 5%, TR MICRO-VUG POR IP, NO FLSH CUT, V PR SLW STRM CUT IN 10%, NO LCH ON DSH, NO OIL ODOR

3387'-3389' LS- CRM TO LT TN, W/ D.O.S IN 60%, LIVE OIL STN IN 20%,





HD DNS TO BRIT IP, MD-XLN, S-SUCRO, S-CHLKY IP, SCAT IMB
CACL-XLS, SCAT SFT WHT CHLK IP, DUL YEL GLD FLO IN 30%, BRT YEL
GLD FLO IN 10%, FR VUG POR IN 15%, PR MICRO VUG POR IN 5%, PR TO
FR FLSH CUT IN 30%, FR SLW STRM CUT IN 50%, V LT TN LCH ON DSH,
NO OIL ODOR

3399'-3401' LS- LT TN TO TN, W/ DK TN OIL STN IN 40%, V HD DNS TO
TR BRIT IP, MD/F-XLN MTRX, RE-XLN IP, S-SUCRO IP, DUL YEL GLD FLO
IN 60%, SCAT BRT YEL GLD FLO IN 20%, PR TO FR MICRO-VUG POR IN
10%, FR INTER-XLN POR IN 5%, TR PR VUG POR IP, FR TO GD FLSH
THRU, GD SLW STRM CUT IN 70%, TN LCH ON DSH, FR OIL ODOR

BKC 3406'-1387'

LS- OFF WHT TO CRM, V HD DNS TO TR BRIT IP,
F/VF-XLN MTRX, SCAT WHT CHRT THRU, NO VIS FLO, NO
VIS POR, NO VIS SHOW

SH- RD TO DK RD, SFT TO V GMMY, ABTD SFT WHT CHLK
THRU

SH- RD, SFT TO V GMMY THRU, ABTD MOTT CHRT THRU

ARBUCKLE 3463'-1544'

3464'-3465' DOLO- TN TO DK TN (DUE TO OIL STN IN 90%), HD DNS TO
V BRIT, V RE-XLN MTRX, S-SUCRO THRU, ABTD IMB SM TO MD S-ANG
DOLO GRNS THRU, SCAT IMB SM S-ANG CLR QRTZ GRNS IP, DUL YEL
GLD FLO IN 100%, PR INTER-GRN POR IN 10%, EXCEL FLSH CUT IN 90%,
EXCEL SLW STRM CUT IN 90%, V DK TN LCH ON DSH, V GD STRNG OIL
ODOR

3472'-3473' DOLO- LT TN TO TN, W/ DK TN OIL STN SCAT IN 40%, HD
DNS TO BRIT, RE-XLN MTRX, ABTD IMB ANG TO S-ANG DOLO GRNS
THRU, DUL YEL GLD FLO IN 80%, TR SPTTD BRT YEL GLD FLO IN 5%, V
PR TO PR INTER-GRN POR IN 5%, GD FLSH CUT IN 70%, EXCEL SLW
STRM CUT IN 80%, DK TN LCH ON DSH, GD STRNG OIL ODOR

DOLO- OFF WHT TO CRM, HD DNS TO BRIT IP, F-XLN
MTRX, RE-XLN, ABTD IMB SM RND DOLO GRNS THRU,
SCAT WHT CHRT THRU, DUL YEL FLO IN 40%, NO VIS
POR, NO VIS CUT OR SHOW

DOLO- WHT TO OFF WHT, HD DNS TO BRIT IP, MD-XLN,
RE-XLN MTRX, S-CHLKY IP, ABTD IMB SM TO MD S-ANG
TO RND DOLO GRNS THRU, DUL YEL FLO IN 80%, NO VIS
POR, NO VIS CUT OR SHOW

DOLO- WHT TO OFF WHT, V HD DNS TO BRIT IP, RE-XLN
MTRX, S-CHLKY IP, ABTD IMB SM TO MD S-ANG DOLO
GRNS THRU, SCAT IMB SM RND CLR QRTZ GRNS, DUL
YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

R.T.D. @ 6:00 P.M. 5/24/12

DROP SURVEY

T.O.F.L @ 9:00 P.M.

WEATHERFORD/ LIBERAL, KS

