



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1089666
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: _____

1089666

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	SCURLOCK 3-21
Doc ID	1089666

All Electric Logs Run

DIL
MICRO
POR
SONIC
SPECTRAL

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



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 06, 2012

CLAYTON CAMOZZI
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-051-26283-00-00
SCURLOCK 3-21
NW/4 Sec.21-15S-16W
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 at 303-831-4673.

Respectfully,
CLAYTON CAMOZZI



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: 4/14/2012
 Invoice # 368

P.O.#:
 Due Date: 5/14/2012
 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:
 SCURLOCK 3-21

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	350	\$ 4,507.22	Yes				
8 5/8" Basket	3	\$ 1,000.67	Yes				
Bulk Truck Matl-Material Service Charge	370	\$ 781.11	No				
Calcium Chloride	13	\$ 516.78	Yes				
8 5/8" Centralizer	3	\$ 202.67	Yes				
Flo Seal	87	\$ 183.67	Yes				
Pump Truck Mileage-Job to Nearest Camp	17	\$ 179.09	No				
Premium Gel (Bentonite)	7	\$ 120.29	Yes				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	17	\$ 104.80	No				

Invoice Terms:

Net 30

SubTotal: \$ 8,767.02
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,315.05)

SubTotal for Taxable Items:	\$ 5,727.45
SubTotal for Non-Taxable Items:	\$ 1,724.51
Total:	\$ 7,451.97
Tax:	\$ 360.83

6.30% Ellis County Sales Tax

Amount Due: \$ 7,812.80
Applied Payments:
Balance Due: \$ 7,812.80

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	

RECEIVED

APR 24 2012

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

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. 368

Date	4-13-12	Sec.	21	Twp.	15	Range	16	County	ELLIS	State	KANSAS	On Location		Finish	3claim
Lease	Schuelock	Well No.	3-21			Location Victoria St. Chetola Gold Rd - E. 2 1/2 mi - Santo									
Contractor	DISCOVERY #2	Owner SAMUEL GARY JR. & ASSOC, INC.													
Type Job	LONG 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	12 1/4"	T.D.	818'												
Csg.	8 5/8" - 24LB	Depth	817'												
Tbg. Size		Depth													
Tool		Depth													
Cement Left in Csg.		Shoe Joint	49.4												
Meas Line		Displace	49 1/4 BLS												
										Charge To SAMUEL GARY JR. & ASSOC, INC					
										Street 1515 WYNKOP, STE 700					
										City DENVER State COLORADO					
										The above was done to satisfaction and supervision of owner agent or contractor.					
										Cement Amount Ordered 350 com - 3cc - 2cc 1/4 FLD					

EQUIPMENT

Pumptrk	15	No.	Cementer	raig	Common	350
			Helper			
Bulktrk		No.	Driver	C. SCD	Poz. Mix	
			Driver			
Bulktrk	12	No.	Driver	tonne	Gel.	7
			Driver			

JOB SERVICES & REMARKS

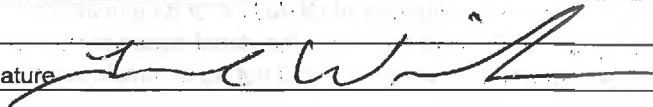
Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 87#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 370
	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	3 - 8 5/8" CENTRALIZERS
Baskets	3 - 8 5/8" BASKETS
AFU Inserts	
Float Shoe	
Latch Down	1 - 8 5/8" BAFFLE PLATE
	1 - 8 5/8" RUBBER PLLIG
	1 - 8 5/8" - HEAD & MANIFOLD
Pumptrk Charge	Long Surface Job
Mileage	17

CEMENT DID CIRCULATE!

THANK YOU!

X 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: 4/20/2012
 Invoice # 328

P.O.#:
 Due Date: 5/20/2012
 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:
 SCURLOCK 3-21

Description of Work:
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,005.76	No				
Common-Class A	123	\$ 1,652.83	Yes				
Bulk Truck Mat-Material Service Charge	212	\$ 467.01	No				
POZ Mix-Standard	82	\$ 415.47	Yes				
Pump Truck Mileage-Job to Nearest Camp	17	\$ 186.87	No				
Premium Gel (Bentonite)	7	\$ 125.52	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	17	\$ 109.35	No				
Dry Hole Plug	1	\$ 61.68	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,024.50
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (603.67)

SubTotal for Taxable Items: \$ 1,917.18
 SubTotal for Non-Taxable Items: \$ 1,503.64

Total: \$ 3,420.82
 Tax: \$ 120.78

6.30% Ellis County Sales Tax

Amount Due: \$ 3,541.61

Applied Payments:

Balance Due: \$ 3,541.61

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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RECEIVED

APR 27 2012

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

DRLG COMP W/O LOE GG

Account	8200.145
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. 328

Date	4.18.12	Sec.	21	Twp.	15	Range	16	County	Ellis	State	KS	On Location		Finish	6.30
Lease	Scribble		Well No.	321		Location Victoria 5 Chetelah Col? 2 1/2 E S into									
Contractor	Discovery #2							Owner							
Type Job	Repair Plus							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	2 7/8		T.D.		3630		Charge To								
Csg.								Sam Gault Jr & Assoc.							
Tbg. Size								Street							
Tool								City							
Cement Left in Csg.								State							
Meas Line								The above was done to satisfaction and supervision of owner agent or contractor.							
							Cement Amount Ordered 20.5 cu/40 4/26/12								

EQUIPMENT

Pumptrk	5	No.	Cement		Common	123
			Helper			
Bulktrk		No.	Driver	Brett	Poz. Mix	82
			Driver			
Bulktrk	10	No.	Driver	Lutz	Gel.	7
			Driver			

JOB SERVICES & REMARKS

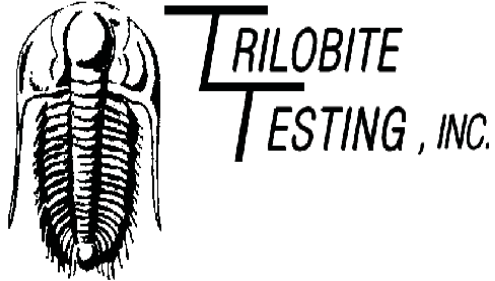
Remarks:	Calcium
Rat Hole 3094	Hulls
Mouse Hole 155K	Salt
Centralizers	Flowseal 50#
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
1st 3510 255K	CFL-117 or CD110 CAF 38
2nd 1100 255K	Sand
3rd 867 1005K	Handling 212
4th 40 105K	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets 8 3/8 wooden Plug
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge plug
	Mileage 17

X Signature Jane Wink

Tax
Discount
Total Charge



DRILL STEM TEST REPORT

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

1515 Wynkoop STE 700
Denver CO 80202

ATTN: Clayton Camozzi

Scurlock #3-21

21-15s-16w Ellis,KS

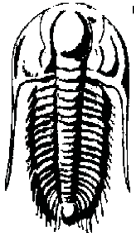
Start Date: 2012.04.16 @ 12:11:15

End Date: 2012.04.16 @ 18:22:45

Job Ticket #: 46496 DST #: 1

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

Printed: 2012.04.19 @ 11:11:53



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. Associates Inc

21-15s-16w Ellis,KS

1515 Wynkoop STE 700
Denver CO 80202

Scurlock #3-21

Job Ticket: 46496

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.04.16 @ 12:11:15

GENERAL INFORMATION:

Formation: **F- Middle G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:50:30

Time Test Ended: 18:22:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

Interval: 3280.00 ft (KB) To 3334.00 ft (KB) (TVD)

Reference Elevations: 1948.00 ft (KB)

Total Depth: 3334.00 ft (KB) (TVD)

1940.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6668 Outside

Press@RunDepth: 32.40 psig @ 3291.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.16

End Date: 2012.04.16

Last Calib.: 2012.04.16

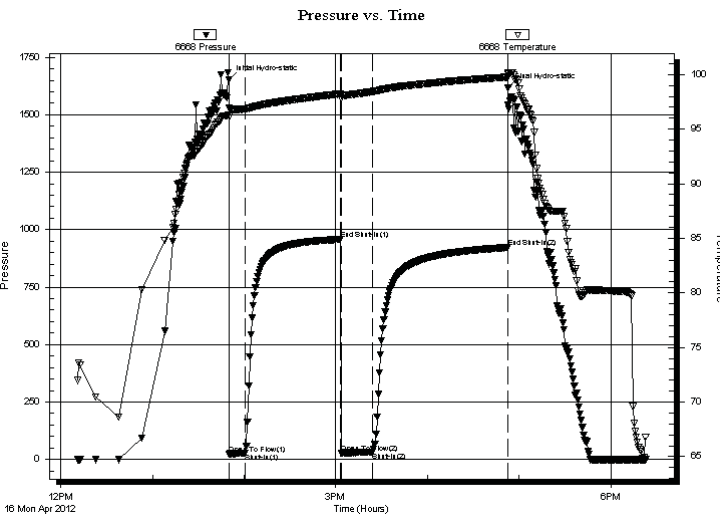
Start Time: 12:11:15

End Time: 18:22:45

Time On Btm: 2012.04.16 @ 13:50:15

Time Off Btm: 2012.04.16 @ 16:52:45

TEST COMMENT: IF: Built to 1" blow
IS: No return blow
FF: Built to weak surface blow
FS: No return blow Time: 10-60-20-90



PRESSURE SUMMARY

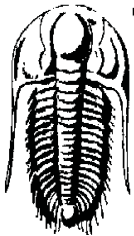
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1652.92	96.97	Initial Hydro-static
1	23.69	96.18	Open To Flow (1)
11	27.78	96.86	Shut-In(1)
73	958.38	98.24	End Shut-In(1)
74	27.65	97.78	Open To Flow (2)
94	32.40	98.44	Shut-In(2)
182	922.17	99.77	End Shut-In(2)
183	1616.77	100.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100% m	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. Associates Inc

21-15s-16w Ellis,KS

1515 Wynkoop STE 700
Denver CO 80202

Scurlock #3-21

Job Ticket: 46496

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.04.16 @ 12:11:15

GENERAL INFORMATION:

Formation: **F- Middle G**

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Time Tool Opened: 13:50:30

Time Test Ended: 18:22:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

Interval: **3280.00 ft (KB) To 3334.00 ft (KB) (TVD)**

Reference Elevations: 1948.00 ft (KB)

Total Depth: 3334.00 ft (KB) (TVD)

1940.00 ft (CF)

Hole Diameter: 7.88 inchesHole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8736 Inside

Press@RunDepth: psig @ 3291.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.16

End Date: 2012.04.16

Last Calib.: 2012.04.16

Start Time: 12:11:05

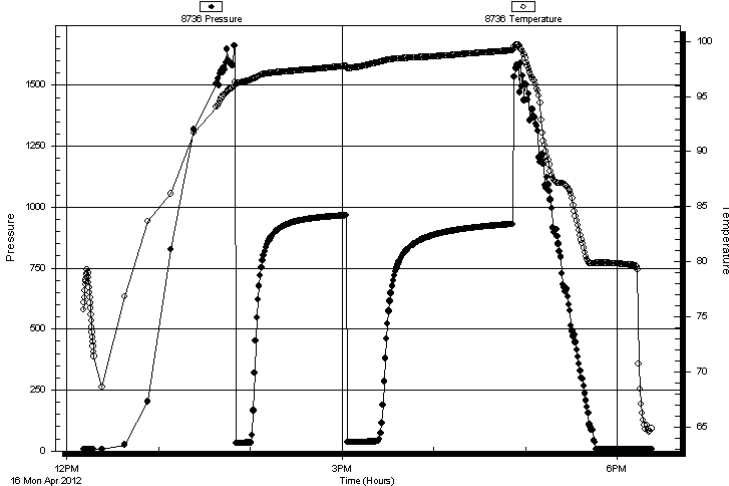
End Time: 18:22:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Built to 1" blow
IS:No return blow
FF:Built to weak surface blow
FS:No return blow Time: 10-60-20-90

Pressure vs. Time



PRESSURE SUMMARY

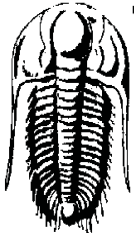
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100% m	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. Associates Inc

21-15s-16w Ellis,KS

1515 Wynkoop STE 700
Denver CO 80202

Scurlock #3-21

Job Ticket: 46496

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.04.16 @ 12:11:15

Tool Information

Drill Pipe:	Length: 3260.00 ft	Diameter: 3.80 inches	Volume: 45.73 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 45.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3280.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

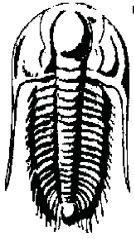
Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Recorder	0.00	8646	Fluid	3247.00		
Blank Spacing	5.00			3252.00		
Change Over Sub	1.00			3253.00		
Shut In Tool	5.00			3258.00		
Hydraulic tool	5.00			3263.00		
Jars	5.00			3268.00		
Safety Joint	3.00			3271.00		
Packer	5.00			3276.00	33.00	Bottom Of Top Packer
Packer	4.00			3280.00		
Stubb	1.00			3281.00		
Perforations	10.00			3291.00		
Recorder	0.00	8736	Inside	3291.00		
Recorder	0.00	6668	Outside	3291.00		
Change Over Sub	1.00			3292.00		
Drill Pipe	31.00			3323.00		
Change Over Sub	1.00			3324.00		
Perforations	5.00			3329.00		
Bullnose	5.00			3334.00	54.00	Bottom Packers & Anchor

Total Tool Length: 87.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. Associates Inc

21-15s-16w Ellis,KS

1515 Wynkoop STE 700
Denver CO 80202

Scurlock #3-21

Job Ticket: 46496

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.04.16 @ 12:11:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud 100% m	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

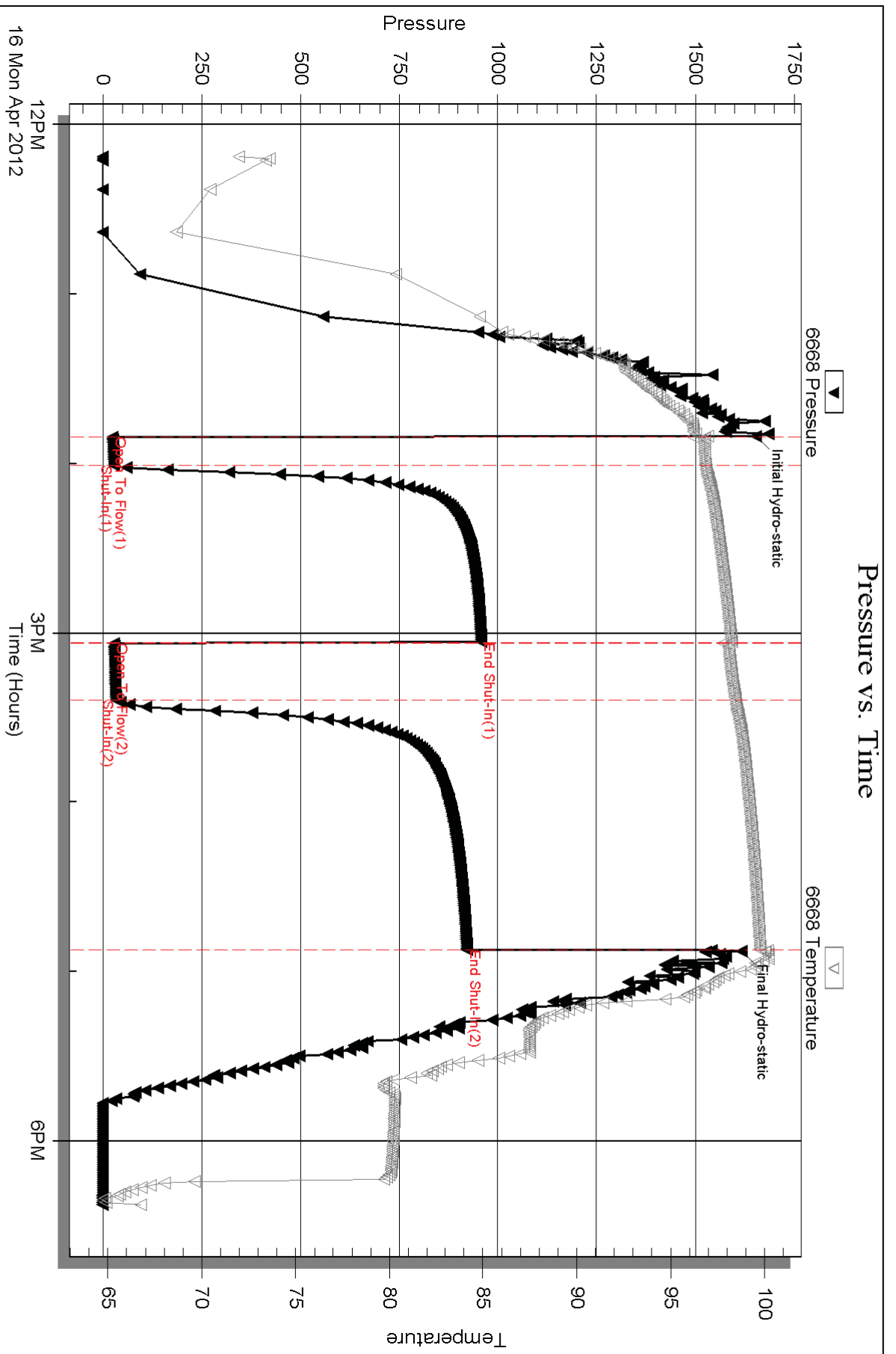
Recovery Comments:

Serial #: 6668

Outside Samuel Gary Jr. Associates Inc

Scurlock #3-21

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 46496

Printed: 2012.04.19 @ 11:11:56

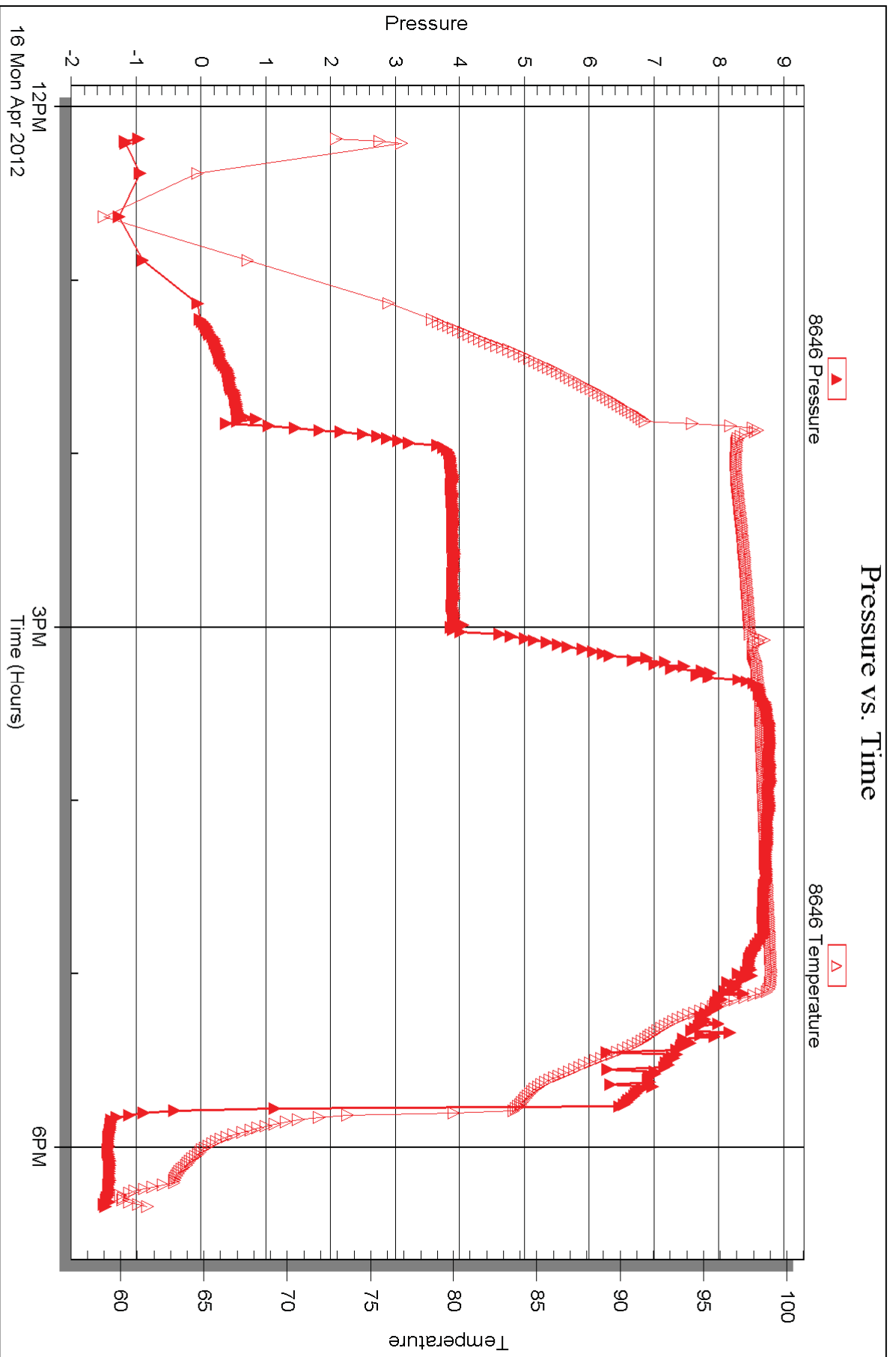
Serial #: 8646

Fluid

Samuel Gary Jr. Associates Inc

Scurlock #3-21

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 46496

Printed: 2012.04.19 @ 11:11:56

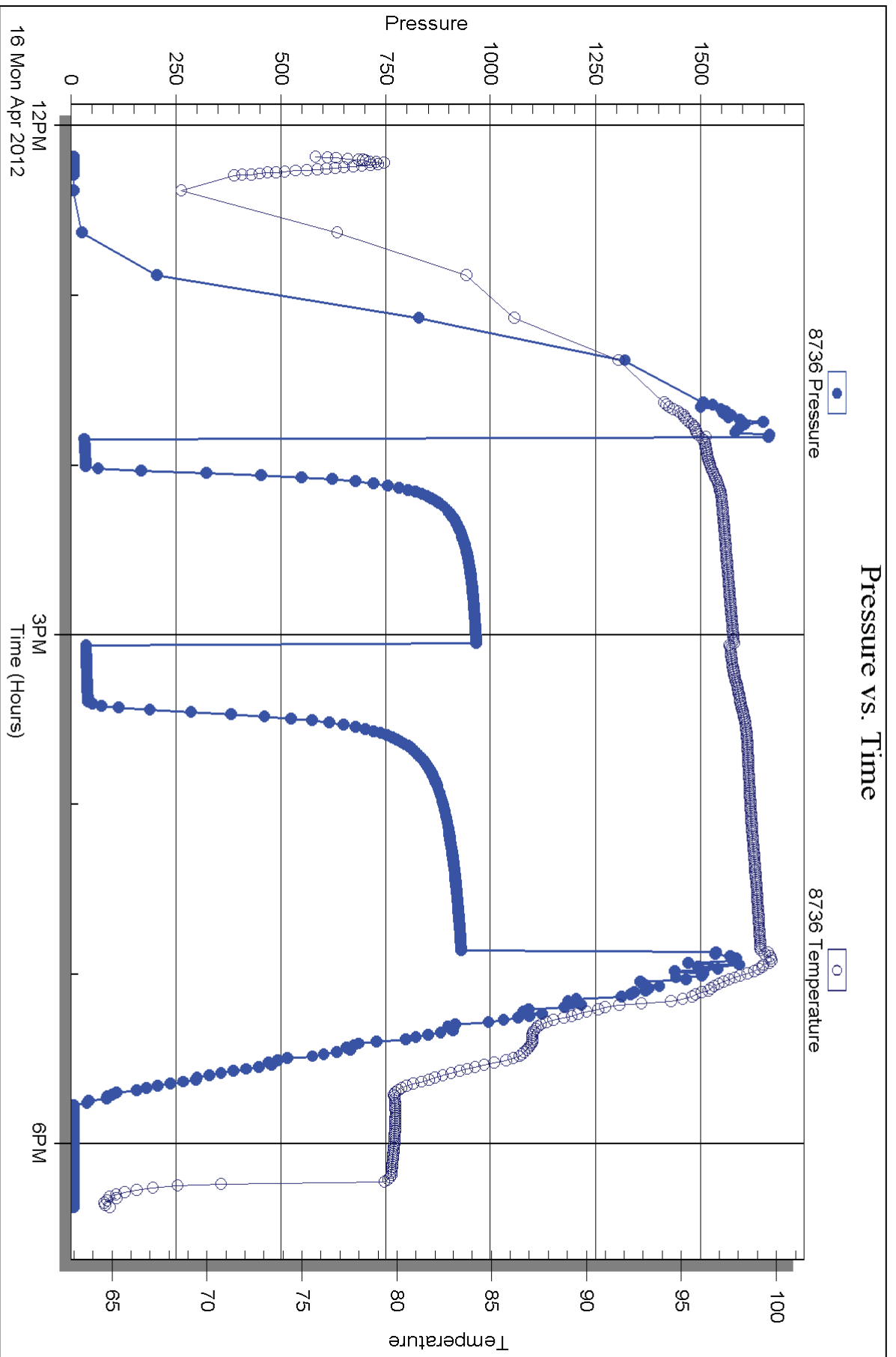
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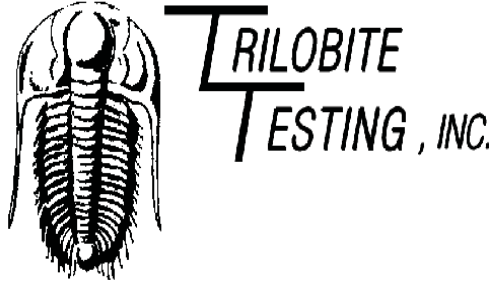
Inside

Samuel Gary Jr. Associates Inc

Scurlock #3-21

DST Test Number: 1





DRILL STEM TEST REPORT

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

1515 Wynkoop STE 700
Denver CO 80202

ATTN: Clayton Camozzi

Scurlock #3-21

21-15s-16w Ellis,KS

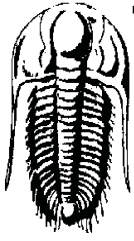
Start Date: 2012.04.17 @ 06:27:15

End Date: 2012.04.17 @ 13:12:15

Job Ticket #: 47217 DST #: 2

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

Printed: 2012.04.19 @ 11:03:43



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. Associates Inc

21-15s-16w Ellis,KS

1515 Wynkoop STE 700
Denver CO 80202

Scurlock #3-21

Job Ticket: 47217

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2012.04.17 @ 06:27:15

GENERAL INFORMATION:

Formation: **LKC "J-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:41:45

Time Test Ended: 13:12:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3398.00 ft (KB) To 3454.00 ft (KB) (TVD)

Reference Elevations: 1948.00 ft (KB)

Total Depth: 3454.00 ft (KB) (TVD)

1940.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 34.15 psig @ 3402.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.17

End Date:

2012.04.17

Last Calib.: 2012.04.17

Start Time: 06:37:15

End Time:

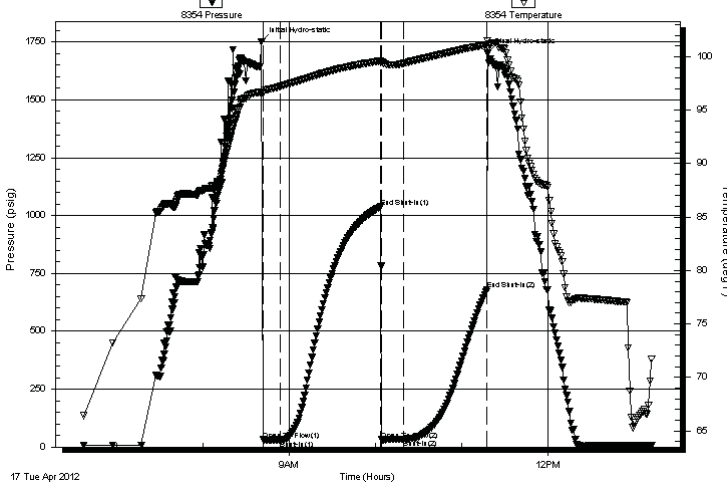
13:12:15

Time On Btm: 2012.04.17 @ 08:40:45

Time Off Btm: 2012.04.17 @ 11:17:45

TEST COMMENT: IF-Very weak building blow . Built to 1/4 inch.
ISI-No Return.
FF-Very weak surface blow . Died @ 6 minutes.
FSI-No Return. Times-10-60-15-60

Pressure vs. Time



PRESSURE SUMMARY

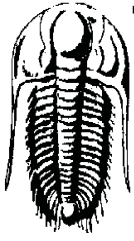
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1752.60	96.71	Initial Hydro-static
1	31.69	96.51	Open To Flow (1)
13	31.10	97.23	Shut-In(1)
83	1037.46	99.60	End Shut-In(1)
84	31.58	99.51	Open To Flow (2)
99	34.15	99.37	Shut-In(2)
157	679.75	101.12	End Shut-In(2)
157	1702.26	101.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
6.00	100%Mud	0.03

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. Associates Inc

21-15s-16w Ellis,KS

1515 Wynkoop STE 700
Denver CO 80202

Scurlock #3-21

Job Ticket: 47217

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2012.04.17 @ 06:27:15

GENERAL INFORMATION:

Formation: **LKC "J-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:41:45

Time Test Ended: 13:12:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: **3398.00 ft (KB) To 3454.00 ft (KB) (TVD)**

Reference Elevations: 1948.00 ft (KB)

Total Depth: 3454.00 ft (KB) (TVD)

1940.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8520 **Outside**

Press@RunDepth: psig @ 3402.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.17 End Date: 2012.04.17

Last Calib.: 2012.04.17

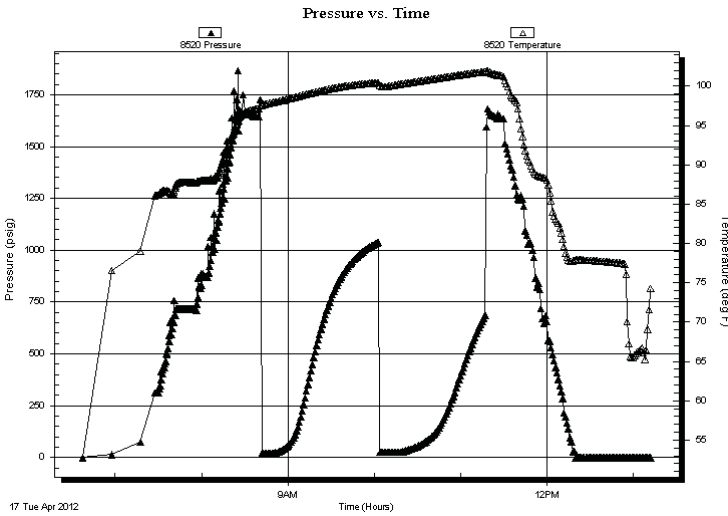
Start Time: 06:37:30 End Time: 13:12:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Very weak building blow . Built to 1/4 inch.
ISI-No Return.
FF-Very weak surface blow . Died @ 6 minutes.
FSI-No Return. Times-10-60-15-60

PRESSURE SUMMARY



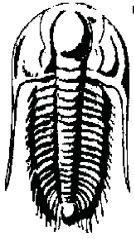
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
6.00	100%Mud	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. Associates Inc

21-15s-16w Ellis,KS

1515 Wynkoop STE 700
Denver CO 80202

Scurlock #3-21

Job Ticket: 47217

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2012.04.17 @ 06:27:15

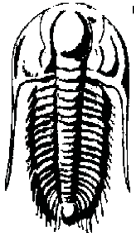
Tool Information

Drill Pipe:	Length: 3348.00 ft	Diameter: 3.80 inches	Volume: 46.96 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:	28000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	10000.00 lb
			<u>Total Volume: 47.11 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3398.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	86.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8653	Fluid	3368.00	
Change Over Sub	1.00			3369.00	
Shut In Tool	5.00			3374.00	
Sampler	2.00			3376.00	
Hydraulic tool	5.00			3381.00	
Jars	5.00			3386.00	
Safety Joint	3.00			3389.00	
Packer	5.00			3394.00	30.00 Bottom Of Top Packer
Packer	4.00			3398.00	
Stubb	1.00			3399.00	
Perforations	3.00			3402.00	
Recorder	0.00	8354	Inside	3402.00	
Recorder	0.00	8520	Outside	3402.00	
Change Over Sub	1.00			3403.00	
Drill Pipe	31.00			3434.00	
Change Over Sub	1.00			3435.00	
Perforations	16.00			3451.00	
Bullnose	3.00			3454.00	56.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. Associates Inc

21-15s-16w Ellis,KS

1515 Wynkoop STE 700
Denver CO 80202

Scurlock #3-21

Job Ticket: 47217

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2012.04.17 @ 06:27:15

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
6.00	100%Mud	0.030

Total Length: 6.00 ft Total Volume: 0.030 bbl

Num Fluid Samples: 0

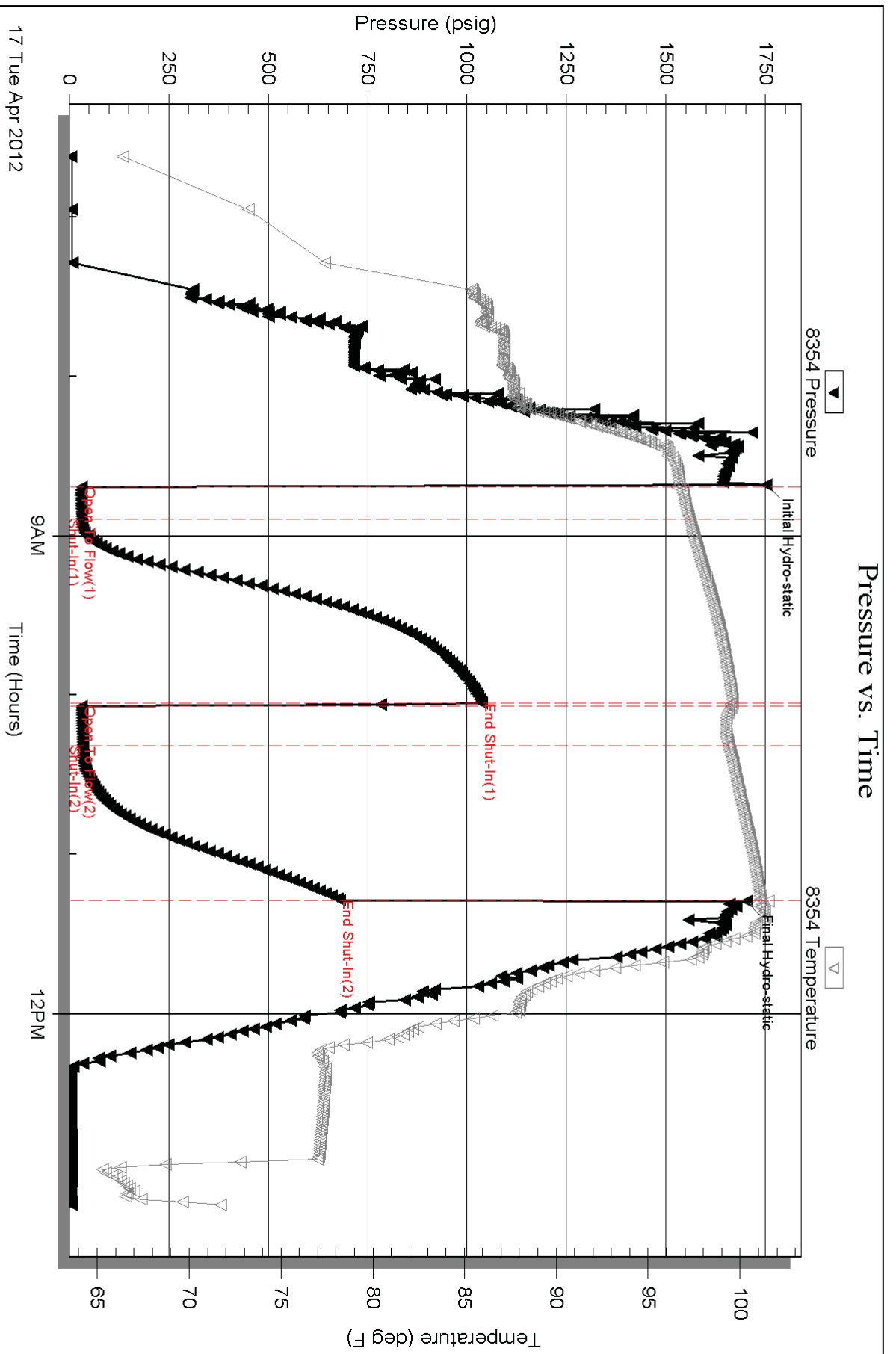
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler- 80# Pressure. 4000 ML total. 4000 ML 100%Mud.

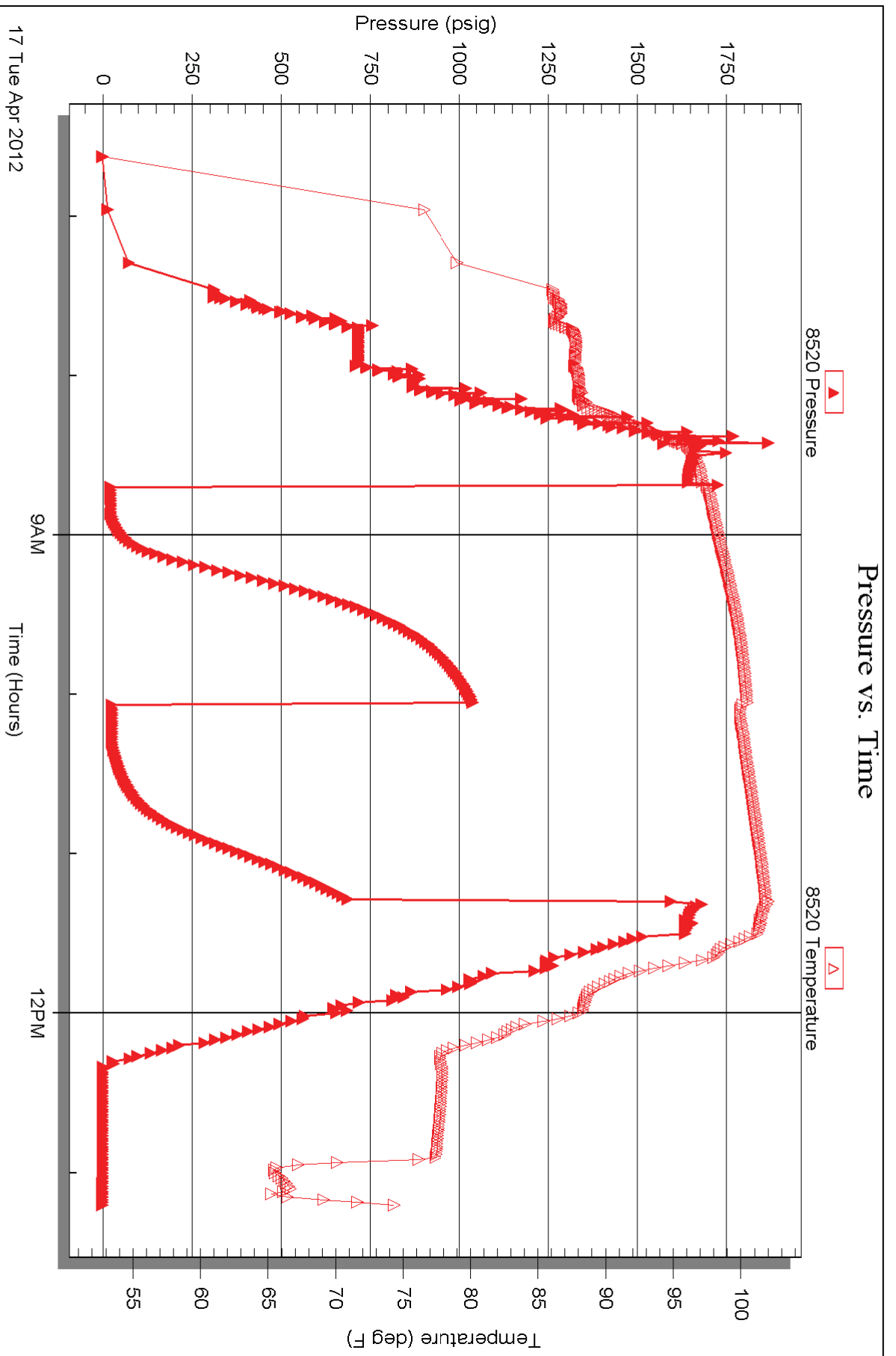


Serial #: 8520

Outside Samuel Gary Jr. Associates Inc

Scurlock #3-21

DST Test Number: 2



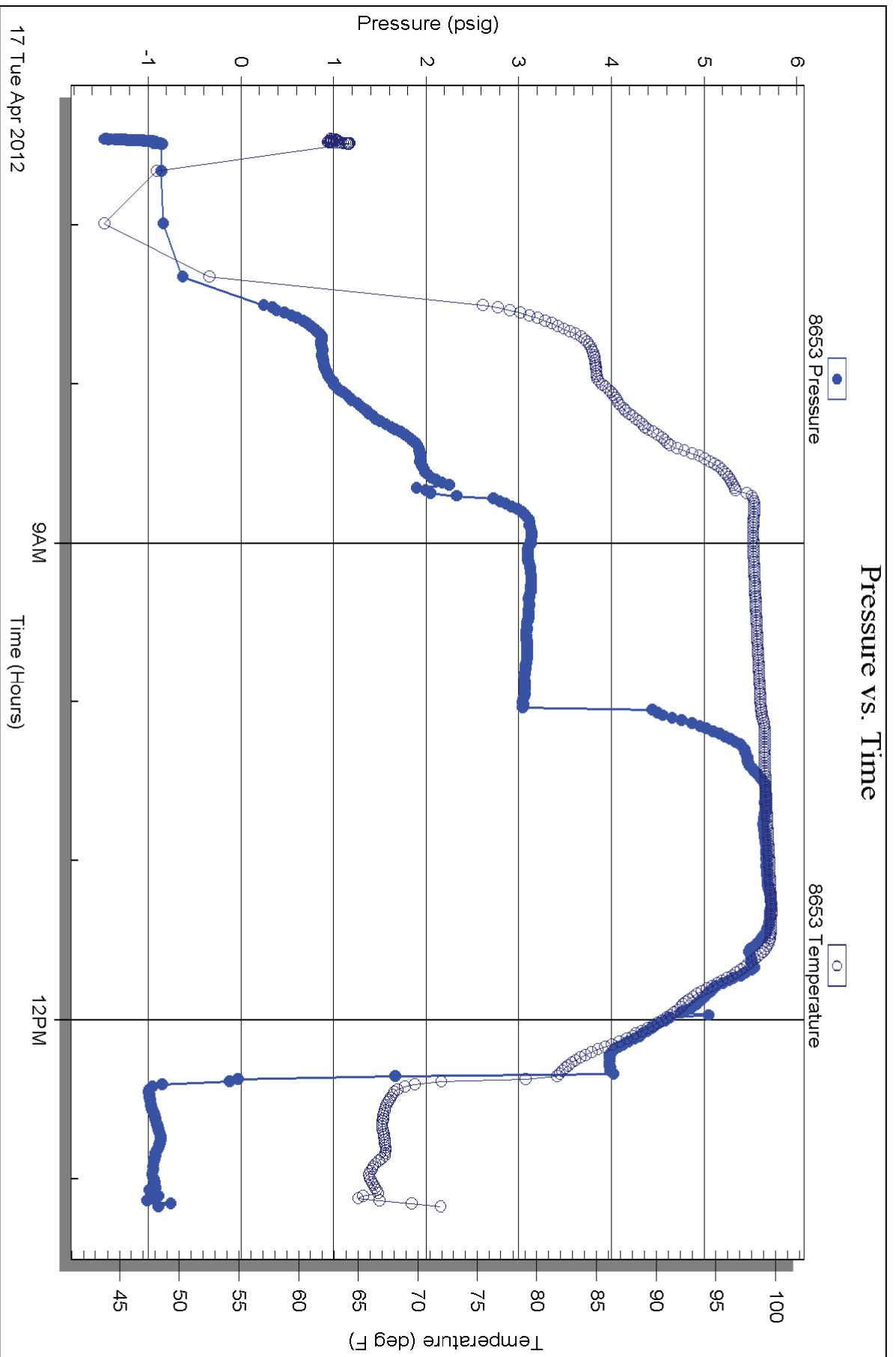
Serial #: 8653

Fluid

Samuel Gary Jr. Associates Inc

Scurlock #3-21

DST Test Number: 2





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

Well Name: SCURLOCK 3-21
 Location: Sec 21 15s 16w, Ellis County, Kansas
 License Number: 15-051-26283-0000
 Spud Date: 4/12/12
 Surface Coordinates: 500' FNL & 2295' FWL
 Region: WILDCAT
 Drilling Completed: 4/18/12

Bottom Hole Coordinates:
 Ground Elevation (ft): 1940' K.B. Elevation (ft): 1948'
 Logged Interval (ft): 2900' To: 3630' Total Depth (ft): 3630'
 Formation: Lansing, Kansas City
 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 ST, STE 700
 DENVER, COLORADO 80202
 CO. GEO; Clayton, Camozzi

GEOLOGIST

Name: SCHUYLER HEDRICK
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla . 73945
 Off. 888-543-8378



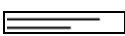

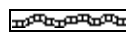



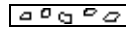



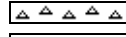


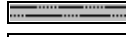

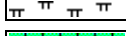

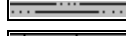



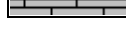

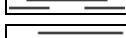



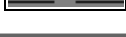
DST's Report

DST# 1 3280'-3334' 10-60-20-90
 IF- BUILT TO 1" BLOW, ISI- NO RETURN BLOW, FF- BUILT TO WEAK SURF. BLOW, FSI- NO RETURN BLOW
 IH- 1652, FH- 1616/ IF- 23 TO 27, FF- 27 TO 32/ ISI- 958, FSI- 922
 REC. 30' OF TF/ 30' OF MUD 100% MUD, BHT- 100, CHLOR.- 10,000

DST's Report

DST# 2 3398'-3454' 10-60-15-60
 IF- VERY WEAK BUILDING BLOW, BUILT TO 1/4", ISI- NO RETURN, FF- VERY WEAK SURFACE BLOW, DIED @ 6 MIN., FSI- NO RETURN
 IH- 1753, FH- 1702/ IF- 32 TO 31, FF- 32 TO 34/ ISI- 1037, FSI- 680
 REC. 6' OF TF/ 6' OF MUD W/ SLI OIL SPECS 100% MUD/ BHT-102, CHLOR.- 10,000

ROCK TYPES

 Anhy	 Gyp	 Shgy	 Sandylms
 Bent	 Igne	 Sltst	 Shale
 Brec	 Lmst	 Ss	 Sltstn
 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
- Sandyms
- Sh
- Sltstn

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

STRINGER

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

OTHER SYMBOLS

INTERVALS

- Core
- Dst
- Dst

EVENTS

- Rft
- Sidewall

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

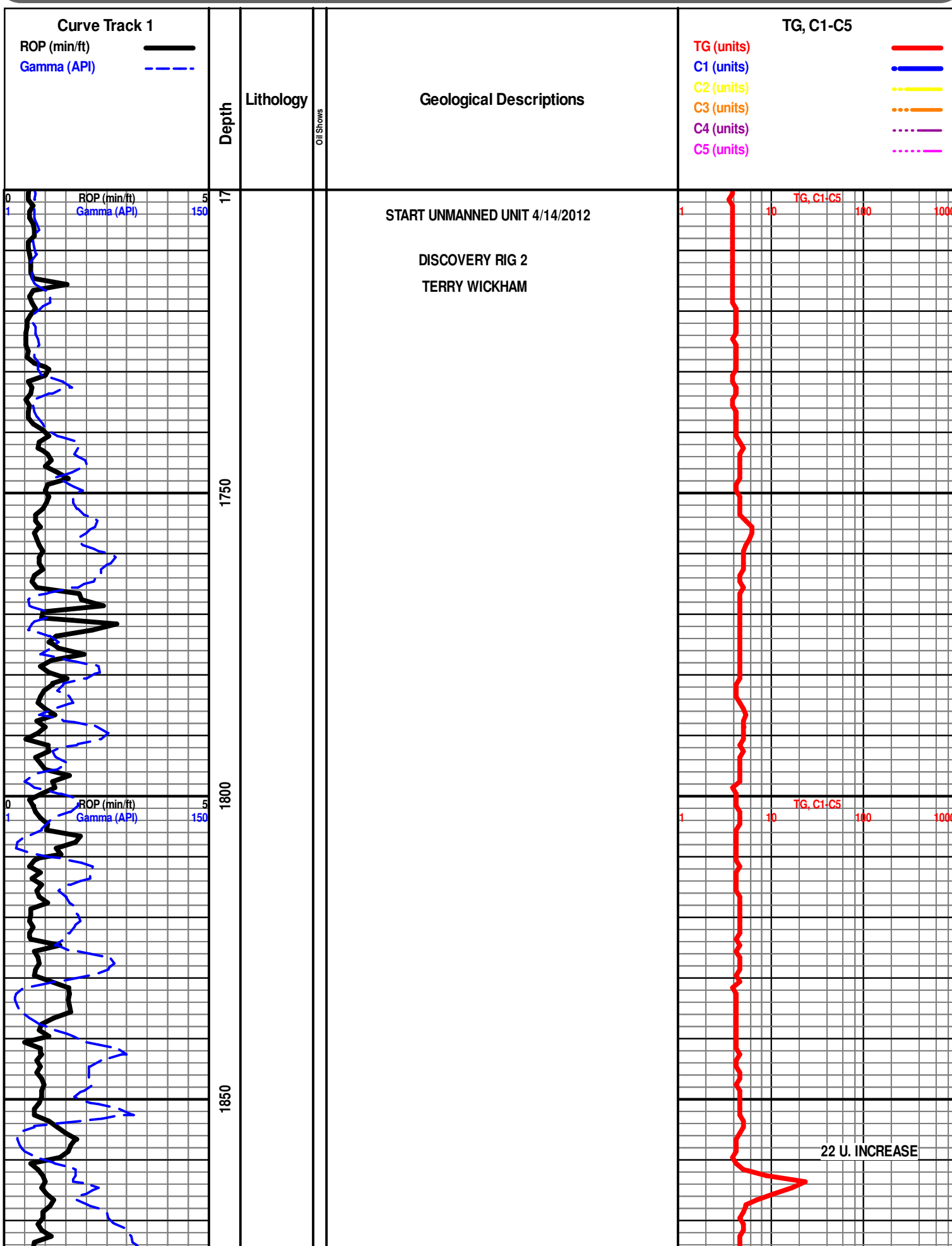
ROUNDING

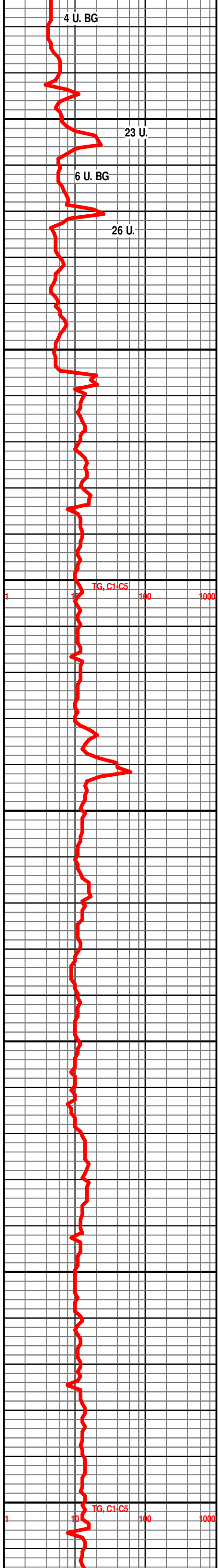
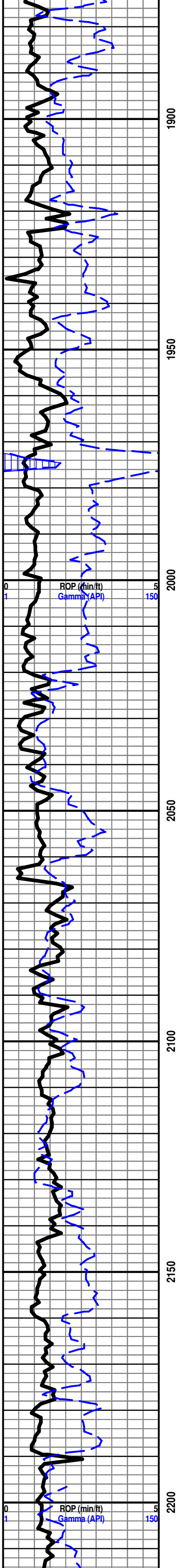
- Rounded
- Subrnd
- Subang

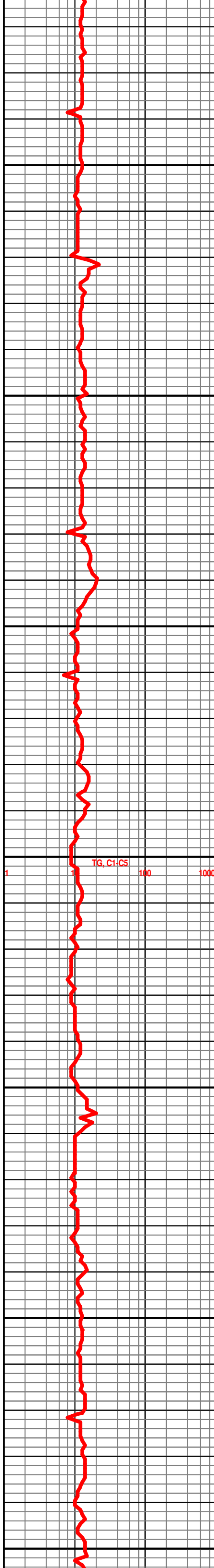
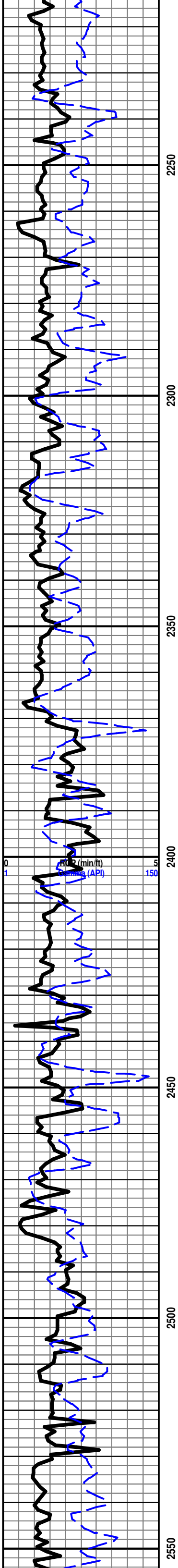
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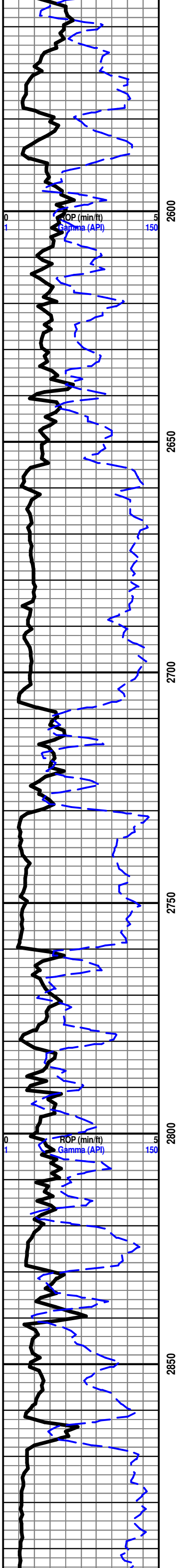
OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show









2600

2650

2700

2750

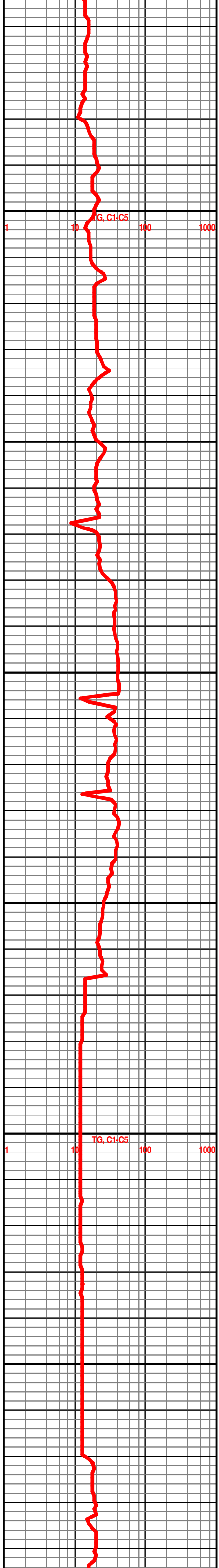
2800

2850

BRS 2707'-759'

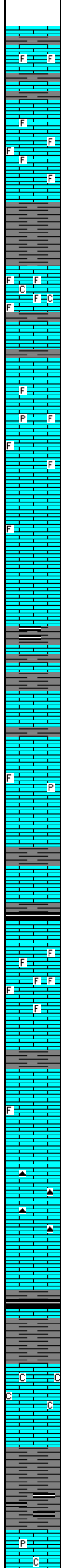
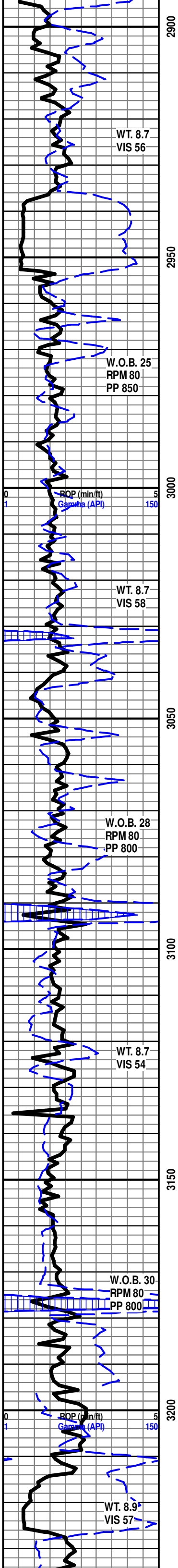
MUD DISPLACEMENT

HOWARD 2895'-947'



1 10 100 1000

1 10 100 1000



LS- LT TN TO TN, HD DNS TO BRTT IP, F-XLN MTRX, RE-XLN IP, S-SUCRO IP, IMB FOSS FRAGS THRU, TR FREE FOSSIL IP, V DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN TN, HD DNS TO BRTT THRU, MD/F-XLN MTRX, S-SUCRO IP, IMB FOSS FRAGS THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

SEVERY 2935'-987'

SH- LT GY TO GY, FRM TO V-SFT TR GMMY IP, SLTY TXT THRU, SMTH BLCKY TXT IP

TOPEKA 2953'-1005'

LS- CRM TO LT TN, HD DNS TO V BRTT, MD-XLN RE-XLN MTRX, S-SUCRO THRU, S-CHLKY IP, ABDT IMB FOSS FRAGS THRU, SCAT IMB SM CALC-XLS THRU, SCAT SFT WHT CHLK, TR FREE FOSSIL IP, V DUL YEL FLO IP, V PR INTER-XLN POR SCAT IN 10%, NO VIS CUT OR SHOW

LS- CRM TO LT TN LT GY MOTT, V HD DNS TO TR BRTT IP, F/VF-XLN MTRX, S-SUCRO IP, IMB FOSS FRAGS THRU, SLI TR SCAT PYR IP, DUL YEL FLO THRU, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, HD DNS TO BRTT THRU, MD/F-XLN MTRX, S-SUCRO IP, SCAT IMB CALC-XLS THRU, TR FREE FOSSIL IP, SPTTD DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

SH- GY, FRM TO V SFT GMMY IP, SLTY BLCKY TXT, W/ BLCK SFT CARB

LE COMPTON 3055'-1107'

LS- CRM TO LT TN, V HD DNS TO TR BRTT, F/VF-XLN MTRX, CRYPTO-XLN IP, SUCRO IP, S-CHLKY IP, SCAT SFT WHT CHLK, TR FREE FOSSIL IP, SLI TR SCAT PYR IP, DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

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

SH- BLCK SFT CARB

LS- CRM TO LT TN TN, HD DNS TO BRTT, MD/F-XLN MTRX, RE-XLN IP, S-CHLKY IP, ABDT IMB FOSS FRAGS THRU, TR SCAT SFT WHT CHLK IP, DUL YEL FLO THRU, NO VIS POR, NO VIS SHOW

SH- GY TO DK GY, V FRM TO SFT IP, SLTY BLCKY TXT

LS- CRM TO LT TN, HD DNS TO BRTT, MD/F-XLN MTRX, S-SUCRO IP, SCAT IMB SM-CALC-XLS THRU, FREE FOSSIL IP, DUL YEL FLO THRU, NO VIS POR, NO VIS SHOW

LS- CRM BFF TO LT TN LT GY MOTT, V HD DNS TO TR BRTT IP, VF-XLN MTRX, TR RE-XLN IP, S-CHLKY IP, SCAT DK CHRT THRU, V DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

HEEBNER 3175'-1227'

SH- BLCK SFT CARB

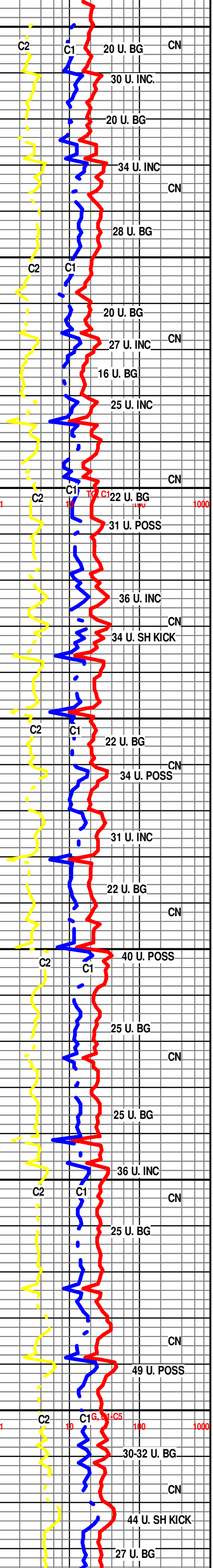
LS- CRM TO LT TN TN, HD DNS TO TR BRTT IP, MD/F-XLN MTRX, S-CHLKY THRU, ABDT SCAT SFT WHT CHLK THRU, TR PYR IP, DUL YEL FLO THRU, NO VIS POR, NO VIS SHOW

DOUGLAS 3209'-1261'

SH- LT GRN TO LT GY GY MOTT, SFT TO V GMMY, W/ BLCK SFT CARB

LANSING 3227'-1279'

LS- CRM BFF TO LT TN, HD DNS TO BRTT, MD/XLN RE-XLN MTRX, S-SUCRO THRU, S-CHLKY IP, ABDT IMB FOSS FRAGS THRU, SCAT IMB SM CALC-XLS THRU, SCAT SFT WHT CHLK THRU, NO VIS POR, NO VIS SHOW



20 U. BG CN

30 U. INC.

20 U. BG

34 U. INC

CN

28 U. BG

TOPEKA 2953'-1005'

20 U. BG

27 U. INC

CN

16 U. BG

25 U. INC

LS- CRM TO LT TN LT GY MOTT, V HD DNS TO TR BRTT IP, F/VF-XLN MTRX, S-SUCRO IP, IMB FOSS FRAGS THRU, SLI TR SCAT PYR IP, DUL YEL FLO THRU, NO VIS POR, NO VIS SHOW

22 U. BG

31 U. POSS

LS- CRM TO LT TN, HD DNS TO BRTT THRU, MD/F-XLN MTRX, S-SUCRO IP, SCAT IMB CALC-XLS THRU, TR FREE FOSSIL IP, SPTTD DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

36 U. INC

SH- GY, FRM TO V SFT GMMY IP, SLTY BLCKY TXT, W/ BLCK SFT CARB

34 U. SH KICK

LE COMPTON 3055'-1107'

22 U. BG

34 U. POSS

CN

31 U. INC

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

22 U. BG

SH- BLCK SFT CARB

CN

LS- CRM TO LT TN TN, HD DNS TO BRTT, MD/F-XLN MTRX, RE-XLN IP, S-CHLKY IP, ABDT IMB FOSS FRAGS THRU, TR SCAT SFT WHT CHLK IP, DUL YEL FLO THRU, NO VIS POR, NO VIS SHOW

40 U. POSS

25 U. BG

SH- GY TO DK GY, V FRM TO SFT IP, SLTY BLCKY TXT

CN

LS- CRM TO LT TN, HD DNS TO BRTT, MD/F-XLN MTRX, S-SUCRO IP, SCAT IMB SM-CALC-XLS THRU, FREE FOSSIL IP, DUL YEL FLO THRU, NO VIS POR, NO VIS SHOW

25 U. BG

LS- CRM BFF TO LT TN LT GY MOTT, V HD DNS TO TR BRTT IP, VF-XLN MTRX, TR RE-XLN IP, S-CHLKY IP, SCAT DK CHRT THRU, V DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

36 U. INC

25 U. BG

HEEBNER 3175'-1227'

SH- BLCK SFT CARB

CN

LS- CRM TO LT TN TN, HD DNS TO TR BRTT IP, MD/F-XLN MTRX, S-CHLKY THRU, ABDT SCAT SFT WHT CHLK THRU, TR PYR IP, DUL YEL FLO THRU, NO VIS POR, NO VIS SHOW

49 U. POSS

DOUGLAS 3209'-1261'

SH- LT GRN TO LT GY GY MOTT, SFT TO V GMMY, W/ BLCK SFT CARB

30-32 U. BG

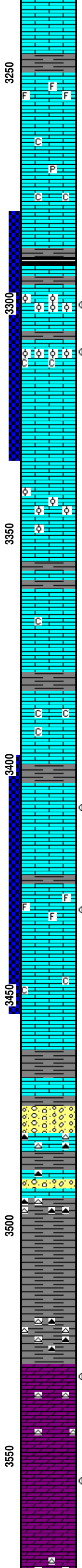
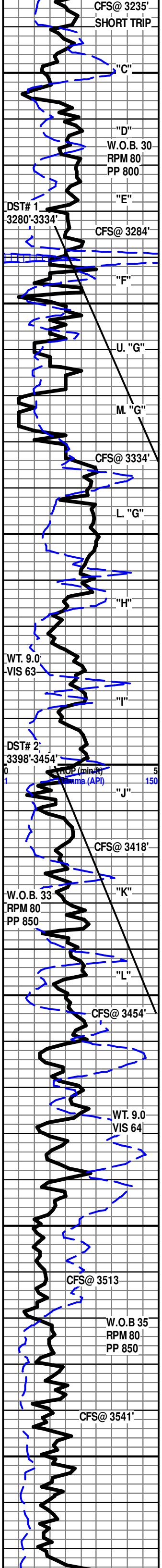
CN

LANSING 3227'-1279'

LS- CRM BFF TO LT TN, HD DNS TO BRTT, MD/XLN RE-XLN MTRX, S-SUCRO THRU, S-CHLKY IP, ABDT IMB FOSS FRAGS THRU, SCAT IMB SM CALC-XLS THRU, SCAT SFT WHT CHLK THRU, NO VIS POR, NO VIS SHOW

44 U. SH KICK

27 U. BG



LANSING "C" 3250'-1302'
 LS- CRM TO LT TN, HD DNS TO BRTT THRU, MD-XLN MTRX, RE-XLN IP, S-SUCRO IP, IMB FOSS FRAGS IP, TR SFT WHT CHLK IP, V DUL YEL FLO SCAT IN 60%, FR TO TR GD VUG POR SCAT IN 30%, TR V PR MICRO VUG POR SCAT IP, NO VIS CUT OR SHOW

LANSING "F" 3296'-1348'
 3298'-3300' LS- CRM TO LT TN TN, W/ TN OIL STN SCAT IN 50%, HD TO V BRTT THRU, V RE-XLN MTRX, S-SUCRO IP, ABDT IMB OOLITES @ PP MTRX, SLI TR SFT WHT CHLK IP, DUL YEL GLD FLO IN 70%, BRT YEL GLD FLO IN 20%, FR TO TR GD INTER-OOLITIC POR SCAT IN 30%, PR TO FR FLSH CUT IN 50%, GD SLW STRM CUT IN 40%, TN LCH ON DSH, FR OIL ODOR

3308'-3311' LS- OFF WHT TO CRM LT TN, W/ LT TN OIL STN IN 30%, HD TO V BRTT THRU, MD/XLN RE/XLN MTRX, S-CHLKY THRU, ABDT IMB OOLITE THRU, SCAT IMB SM CALC-XLS THRU, SCAT SFT WHT CHLK THRU, DUL YEL GLD FLO IN 60%, SPTTD BRT YEL GLD FLO SCAT IN 10%, PR TO TR FR INTER-OOLITIC POR IN 20%, TR V PR INTER-XLN POR SCAT IP, V PR FLSH CUT IN 30%, PR SLW STRM CUT IN 20%, V LT TN LCH ON DSH, NO OIL ODOR

LS- CRM TO LT TN, V HD TO TR BRTT IP, MD-XLN MTRX, S-SUCRO IP, ABDT IMB OOLITES THRU, SCAT PYR IP, V U DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

LANSING "H" 3363'-1415'
 LS- OFF WHT TO CRM BFF, HD DNS TO BRTT, MD/F-XLN MTRX, S-SUCRO THRU, S-CHLKY IP, ABDT IMB SM CALC-XLS THRU, TR SFT WHT CHLK IP, V DUL YEL FLO THRU, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO CRM, HD DNS TO BRTT THRU, F-XLN MTRX, S-CHLKY THRU, SCAT IMB SM CALC-XLS THRU, ABDT SCAT SFT WHT CHLK THRU, TR V DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

3409'-3411' LS- OFF WHT TO CRM, W/ LT TN OIL STN IN 60%, HD TO V BRTT THRU, MD-XLN, SUCRO MTRX, S-CHLKY IP, ABDT IMB SM-CALC-XLS THRU, TR SFT WHT CHLK IP, BRT YEL GLD FLO IN 70%, DUL YEL GLD FLO IN 20%, PR TO TR FR VUG POR SCAT IN 15%, POSS FRACT POR, TR V PR INTER-XLN POR IP, PR FLSH CUT IN 30%, FR SLW STRM CUT IN 30%, V LT TN LCH ON DSH, FNT OIL ODOR

3432'-3433' LS- CRM TO LT TN, W/ TN TO DK TN OIL STN SCAT IN 50%, HD TO V BRTT THRU, MD-XLN V RE-XLN MTRX, S-SUCRO THRU, S-CHLKY IP, IMB FOSS FRAGS THRU, SCAT IMB SM CALC-XLS, BRT YEL GLD FLO SCAT IN 40%, YEL GLD FLO IN 30%, PR VUG POR SCAT IN 10%, POSS FRACT POR, PR FLSH CUT IN 40%, PR TO TR FR SLW STRM CUT IN 30%, V LT TN LCH ON DSH, NO OIL ODOR

LS- OFF WHT TO CRM BFF, HD DNS TO BRTT IP, MD/F-XLN MTRX, RE-XLN IP, S-CHLKY THRU, S-SUCRO IP, SCAT SFT WHT CHLK, TR IMB SM CALC-XLS IP, DUL YEL FLO THRU, NO VIS POR, NO VIS SHOW

BKC 3465'-1517'
 SH- LT GY TO GY DK RD, FRM TO V-SFT GMMY IP, SMTH SPLNTY TXT

CONG- LMS, SH'S W/ TR MOTT CHRTS, LS- CRM TO LT TN, HD DNS TO TR BRTT, MD/F-XLN, RE-XLN IP, S-CHLKY, ABDT WHT SFT CHLK THRU, SCAT IMB CLR QTRZ GRNS THRU, V DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

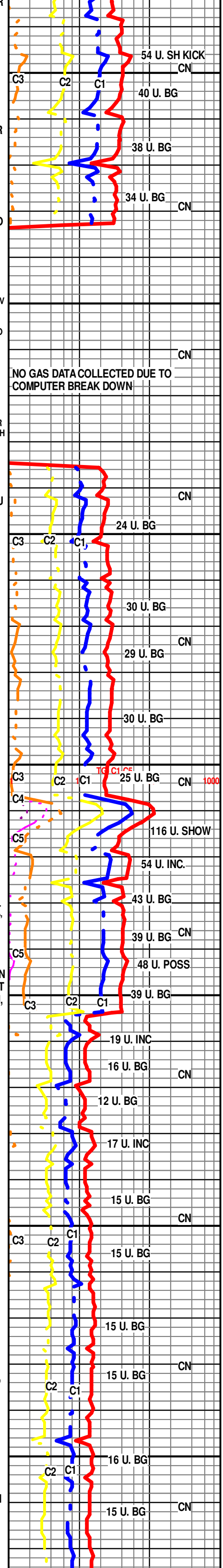
ALOT OF TRASH IN SAMPLES & GROUND UP ROCK

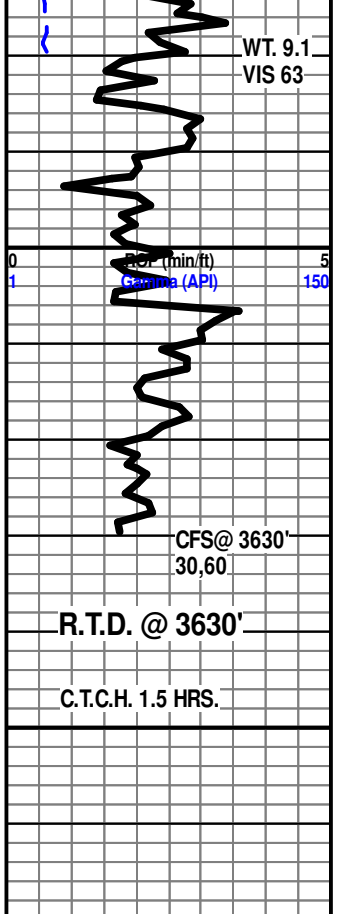
SH- RD TO DK RD, V-SFT TO GMMY THRU, SMTH BLCKY TXT

SH- RD TO DK RD, V GMMY THRU, W/ ABDT MOTT CHRT

ARBUCKLE 3530'-1582'
 3532'-3534' DOLO- TN TO DK TN, W/ D.O.S. SCAT IN 15%, V HD DNS TO SLI TR BRTT IP, S-SUCRO IP MD/F-XLN RE-XLN MTRX, ABDT IMB SM S-ANG TO RND DOLO GRNS THRU, SCAT WHT CHLK THRU, MOTT CHRT, SPTD V DUL YEL FLO IP, TR V PR INTER-XLN POR IP, FR FLSH CUT IN 30%, FR TO TR GD SLW STRM CUT IN 30%, TN LCH ON DSH, NO OIL ODOR

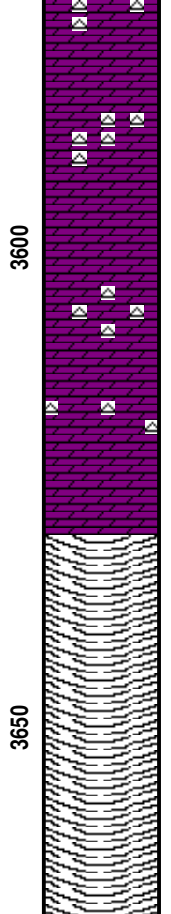
3555'-3557' DOLO- OFF WHT TO CRM, W/ TN OIL SCAT IN 20%, V HD DNS TO TR BRTT, F-XLN RE-XLN MTRX, S-CHLKY IP, S-SUCRO IP, ABDT IMB SM S-ANG TO RND DOLO GRNS THRU, DUL YEL FLO IN 70%, NO FLO IN 30%, V PR TO PR INTER-XLN POR IN 10%, V PR FLSH CUT IN 30%, FR SLW STRM CUT IN 40%, LT TN LCH ON





R.T.D. @ 3630'

C.T.C.H. 1.5 HRS.



DSH, NO OIL ODOR

DOLO- WHT TO OFF WHT, HD DNS TO BRTT, MD/F-XLN RE-XLN MTRX, S-SUCRO IP, ABDT IMB RND TO S-RND DOLO GRNS THRU, TR SFT WHT CHLK IP, DUL YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW

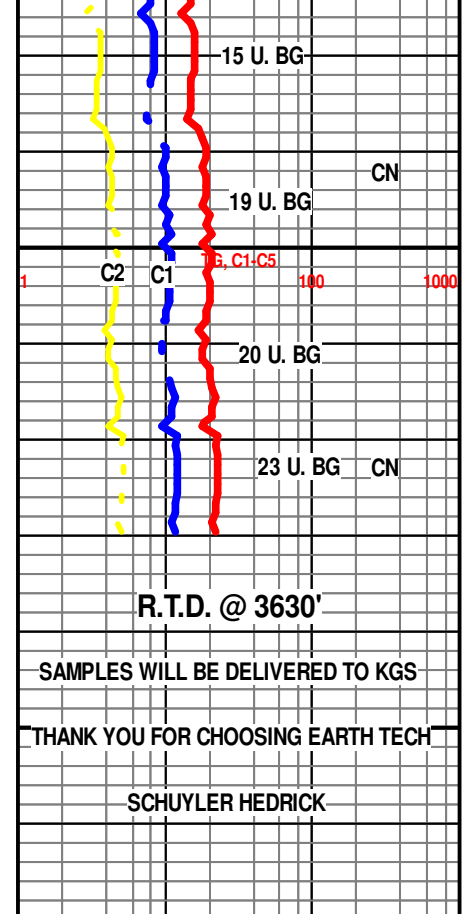
DOLO- WHT TO OFF WHT, V HD DNS, F/VF-XLN MTRX, RE-XLN, S-SUCRO IP, ABDT IMB S-RND DOLO GRNS THRU, WHT CHRT THRU, TR SFT WHT CHLK IP, V DUL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

R.T.D. @ 12:30 A.M. 4/18/12

DROP SURVEY

T.O.F.L. @ 2:00 A.M.

WEATHERFORD/ LIBERAL, KANSAS



R.T.D. @ 3630'

SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

SCHUYLER HEDRICK