



Confidentiality Requested:

 Yes No**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:

- | | | | |
|------------------------------------------------|-----------------------------------------------------------|-------------------------------------|-------------------------------|
| <input type="checkbox"/> New Well | <input type="checkbox"/> Re-Entry | <input type="checkbox"/> Workover | |
| <input type="checkbox"/> Oil | <input type="checkbox"/> WSW | <input type="checkbox"/> SWD | <input type="checkbox"/> SIOW |
| <input type="checkbox"/> Gas | <input type="checkbox"/> D&A | <input type="checkbox"/> ENHR | <input type="checkbox"/> SIGW |
| <input type="checkbox"/> OG | <input type="checkbox"/> GSW | <input type="checkbox"/> Temp. Abd. | |
| <input type="checkbox"/> CM (Coal Bed Methane) | | | |
| <input type="checkbox"/> Cathodic | <input type="checkbox"/> Other (Core, Expl., etc.): _____ | | |

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- | | | | |
|------------------------------------------|---------------------------------------|--------------------------------------------|---------------------------------------|
| <input type="checkbox"/> Deepening | <input type="checkbox"/> Re-perf. | <input type="checkbox"/> Conv. to ENHR | <input type="checkbox"/> Conv. to SWD |
| <input type="checkbox"/> Plug Back | <input type="checkbox"/> Conv. to GSW | <input type="checkbox"/> Conv. to Producer | |
| <input type="checkbox"/> Commingled | Permit #: _____ | | |
| <input type="checkbox"/> Dual Completion | Permit #: _____ | | |
| <input type="checkbox"/> SWD | Permit #: _____ | | |
| <input type="checkbox"/> ENHR | Permit #: _____ | | |
| <input type="checkbox"/> 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 SWGPS 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

- | |
|------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Confidentiality Requested |
| Date: _____ |
| <input type="checkbox"/> Confidential Release Date: _____ |
| <input type="checkbox"/> Wireline Log Received |
| <input type="checkbox"/> Geologist Report Received |
| <input type="checkbox"/> UIC Distribution |
| ALT <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III Approved by: _____ Date: _____ |



1218536

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

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	HAGER TRUST 1-11
Doc ID	1218536

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL

Summary of Changes

Lease Name and Number: HAGER TRUST 1-11

API/Permit #: 15-137-20657-00-00

Doc ID: 1218536

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	10/28/2013	08/13/2014
Fracturing Question 1		No
LocationInfoLink	https://solar.kgs.ku.edu/kcc/detail/locationInformation.cfm?section=11&t3500-3504	https://kolar.kgs.ku.edu/kcc/detail/locationInformation.cfm?section=11&t3416-3419
Perf_Depth_1	3500-3504	3416-3419
Perf_Depth_2	3541-3544	3500-3504
Perf_Material_2	500 GAL 28% MCA W/ 3% MAS	250 GAL 28% MCA W/ 3% MAS
Perf_Record_1	3500-3504	3416-3419
Perf_Record_2	3541-3544	3500-3504
Producing Formation	LANSING	TORONTO, LANSING
Production Interval #1	3500-3504 OA	3416-3610 OA

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Save Link	../../kcc/detail/operatorEditDetail.cfm?docID=1165199	../../kcc/detail/operatorEditDetail.cfm?docID=1218536



CONFIDENTIAL

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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
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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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	HAGER TRUST 1-11
Doc ID	1165199

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	HAGER TRUST 1-11
Doc ID	1165199

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3500-3504	250 GAL 28% MCA W/ 3% MAS	3500-3504
4	3541-3544	500 GAL 28% MCA W/ 3% MAS	3541-3544
4	3574-3576		3574-3576
4	3604-3610	500 GAL 28% MCA W/ 3% MAS	3604-3610

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

October 25, 2013

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

Re: ACO1
API 15-137-20657-00-00
HAGER TRUST 1-11
SW/4 Sec.11-05S-23W
Norton 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,
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: 7/5/2013
 Invoice # 7410

P.O.#:
 Due Date: 8/4/2013
 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

JUL 12 2013

SAMUEL GARY JR.
 & ASSOCIATES, INC.

Reference:
 HAGER TRUST 1-11

Description of Work:
 LONG SURFACE JOB

DRLG COMP W/O LOE GG

Account	8210-138
Well/Prospect	
Deck	
AFE	
Approval	AG
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 977.42	No				
Common-Class A	275	\$ 3,691.35	Yes				
8 5/8" Basket	2	\$ 676.51	Yes				
Bulk Truck Matl-Material Service Charge	290	\$ 620.85	No				
Calcium Chloride	10	\$ 510.16	Yes				
Pump Truck Mileage-Job to Nearest Camp	51	\$ 544.82	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	51	\$ 318.81	No				
8 5/8" Centralizer	2	\$ 137.01	Yes				
8 5/8" Top Rubber Plug	1	\$ 113.46	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 96.34	Yes				
Premium Gel (Bentonite)	5	\$ 87.13	Yes				

Invoice Terms:

Net 30		SubTotal: \$ 7,773.88
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (1,166.08)
		SubTotal for Taxable Items: \$ 4,515.18
		SubTotal for Non-Taxable Items: \$ 2,092.62
		Total: \$ 6,607.80
		Tax: \$ 318.32
		Amount Due: \$ 6,926.12
		Applied Payments:
		Balance Due: \$ 6,926.12

7.05% Norton 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.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 7410

Date	7-5-13	Sec.	11	Twp.	5	Range	23	County	Norton	State	KS	On Location		Finish	1:00 AM
								Location							
								Hill City N to Jct. 2W, 1/2 N, E 2							

Lease	Hager Trust	Well No.	1-11	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Discovery 2				
Type Job	Surface				
Hole Size	12 1/4	T.D.	521	Charge To	Sam Gary & Associates
Csg.	8 5/8	Depth	520	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.	41.33	Shoe Joint	41.33	Cement Amount Ordered	275 com 3% cc 2% gel
Meas Line		Displace	30 1/4 bbl		

EQUIPMENT

Pumptrk	15	No.	Cementer		Common	275
			Helper	Nick	Poz. Mix	
Bulktrk	1	No.	Driver		Gel.	5
			Driver	David	Calcium	10
Bulktrk	PU	No.	Driver			
			Driver	Travis		

JOB SERVICES & REMARKS

Remarks:	Cement did circulate	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers	1, 10	Kol-Seal	
Baskets	2, 11	Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	290
		Mileage	

FLOAT EQUIPMENT

		Guide Shoe	
		Centralizer	2
		Baskets	2
		AFU Inserts	
		Float Shoe	
		Latch Down	
			1 baffal plate, 1 Rubber plug
		Pumptrk Charge	Long Surface
		Mileage	51

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: 7/12/2013
 Invoice # 7980

P.O.#:

Due Date: 8/11/2013

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

JUL 22 2013

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

Reference:

HAGER TRUST 1-11

Description of Work:

PROD LONG STRING

DRLG COMP W/O LOE GG

Account	8300. 238
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:

Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor	\$ 963.85	No	Defoamer A or CAF-38	50	\$369.44	Yes
Common-Class A	\$ 2,978.25	Yes	Auto Fill Float Shoe, 5 1/2"	1	\$323.00	Yes
Cement Port Collar, 5 1/2"	\$ 2,638.89	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	51	\$314.39	No
5 1/2" Basket	\$ 2,178.67	Yes	Salt (Fine)	19	\$279.98	Yes
Gilsonite	\$ 1,673.58	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$236.44	Yes
CFL 117	\$ 1,144.39	Yes	Flo Seal	56	\$118.22	Yes
5 1/2" Turbolizer	\$ 551.00	Yes	KCL	2	\$63.04	Yes
Pump Truck Mileage-Job to Nearest Camp	\$ 537.26	No				
Bulk Truck Matl-Material Service Charge	\$ 536.22	No				
CD-110	\$ 494.00	Yes				
Mud Clear	\$ 390.56	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 15,791.17
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (2,368.68)

SubTotal for Taxable Items:	\$ 11,423.54
SubTotal for Non-Taxable Items:	\$ 1,998.96
Total:	\$ 13,422.49
Tax:	\$ 805.36

7.05% Norton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 14,227.85
Applied Payments:
Balance Due: \$ 14,227.85

Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed.

©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 7980

Date	7-12-13	Sec.	11	Twp.	S	Range	23	County	Norton	State	KS	On Location		Finish	8:00pm
Location													Hwy 9 + 283 2nd E in +		

Lease	Hager Trust		Well No.	1-11		Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Contractor	D. S. Overholtz						Charge To	Sam Gay Jr + Assoc.								
Type Job	Production String						Street									
Hole Size	7 7/8		T.D.	3860		City										
Csg.	5 1/2		Depth	3858		State										
Tbg. Size			Depth			The above was done to satisfaction and supervision of owner agent or contractor.										
Tool	Port Collar		Depth	1864		Cement Amount Ordered 2250 Proc 10% Salt + 3% KCl on + 1/2 #10										
Cement Left in Csg.	43		Shoe Joint	43		3 1/2 CD-110 .8% CFL-117 .25% CAF 38 500 gal Mud Clear										
Meas Line			Displace	90 3/4 B L		Common 225 DBLKCL										

EQUIPMENT

Pumptrk	(1)	No.	Cementer	Craig		Poz. Mix									
			Helper			Gel.									
Bulktrk		No.	Driver	Coody		Calcium	CD-110 - 117#								
			Driver			Hulls	KCL 2 gal								
Bulktrk		No.	Driver	Heath		Salt	19								
			Driver			Flowseal	56#								

JOB SERVICES & REMARKS

Remarks:															
Rat Hole	30SK														
Mouse Hole	15SK														
Centralizers	Mud CLR 48 500 gal														
Baskets	CFL-117 or CD110 CAF 38 50#														
D/V or Port Collar	Sand 176#														
5 1/2 size 3858 Baffle 3815 Est			Handling 259 254												
Circulation Pump 500 gal mud flush &			Mileage												
10 BL spacer Cement Rat + mouse hole.															
Cement 5 1/2 with 180SK. Clear lines															
Displace Plug. Plug landed @ 1200#.															
Hold. Release Pressure.															
D.V.															

FLOAT EQUIPMENT

Guide Shoe	5 1/2														
Centralizer	7 Turbos														
Baskets	3 Blue 3 Red														
AFU Inserts	Port Collar														
Float Shoe	1														
Latch Down	1														

Pumptrk Charge *prod long string*
Mileage 51

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: 7/16/2013
 Invoice # 7419

P.O.#:
 Due Date: 8/15/2013
 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

JUL 24 2013

SAMUEL GARY JR.
& ASSOCIATES, INC.

Reference:
 HAGER TRUST 1-11

Description of Work:
 PORT COLLAR JOB

DRLG COMP W/O LOE GG

Account	8300-238
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
mon, MetsoBeads, Plater, Gel, FloSeal, Calcium)	260	\$ 5,397.30	Yes				
Bulk Truck Matl-Material Service Charge	300	\$ 651.43	No				
Pump Truck Mileage-Job to Nearest Camp	51	\$ 552.61	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	51	\$ 323.37	No				
Flo Seal	75	\$ 162.86	Yes				
Premium Gel (Bentonite)	2	\$ 35.35	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 8,114.30

Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (1,217.15)

SubTotal for Taxable Items:	\$ 4,756.18
SubTotal for Non-Taxable Items:	\$ 2,140.97
Total:	\$ 6,897.15
Tax:	\$ 335.31

7.05% Norton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 7,232.46

Applied Payments:

Balance Due: \$ 7,232.46

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. 7419

Date	7-16-13	Sec.		Twp.		Range		County	Norton	State	KS	On Location		Finish	2:30PM
Location								Hillcity N to Hwy 9, 2 W, 1/2 N, E N 2							
Lease	Hager Trust			Well No.	1-11			Owner							
Contractor	Alliance			To Quality Oilwell Cementing, Inc.											
Type Job	Port Collar			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											
Csg.	Depth			Sam Gary Jr & Associates											
Tbg. Size	Depth			Street											
Tool	Depth			City											
Cement Left in Csg.	Shoe Joint			State											
Meas Line	Displace			The above was done to satisfaction and supervision of owner agent or contractor.											
EQUIPMENT				Cement Amount Ordered 300 sx QMDC											
Pumptrk 16	No.	Cementer		Used 200 200											
		Helper	Lonnjew.	Common											
Bulktrk 13	No.	Driver		Poz. Mix											
		Driver	Heath	Gel. 2											
Bulktrk P4	No.	Driver		Calcium											
		Driver	Travis	Hulls											
JOB SERVICES & REMARKS				Salt											
Remarks:				Flowseal 75#											
Rat Hole				Kol-Seal											
Mouse Hole				Mud CLR 48											
Centralizers				CFL-117 or CD110 CAF 38											
Baskets				Sand											
D/V or Port Collar	1867			Handling 300											
Tested tool to 1000 psi held				Mileage											
opened Port collar mixed 2sx gel.				FLOAT EQUIPMENT											
and 200 sx QMDC. closed Port collar				Guide Shoe											
tested to 1000 psi held Ran 5 Joints				Centralizer											
washed clean.				Baskets											
cement did circulate				AFU inserts											
				Float Shoe											
				Latch Down											
				Pumptrk Charge port collar Job											
				Mileage 51											
				Tax											
				Discount											
				Total Charge											
X Signature															



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc, Inc

11 5s 23w Norton, Ks

1315 Wynkoop, STE 700
Denver, Co 80202

Hager Trust 1-11

ATTN: Clayton Camozzi

Job Ticket: 52876

DST#: 1

Test Start: 2013.07.09 @ 12:39:00

GENERAL INFORMATION:

Formation: **LKC - D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:32:00

Time Test Ended: 21:04:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 3444.00 ft (KB) To 3476.00 ft (KB) (TVD)

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3476.00 ft (KB) (TVD)

2247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8678 Outside

Press @ Run Depth: 420.73 psig @ 3445.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.09

End Date:

2013.07.09

Last Calib.:

2013.07.09

Start Time: 12:39:05

End Time:

21:03:59

Time On Btm:

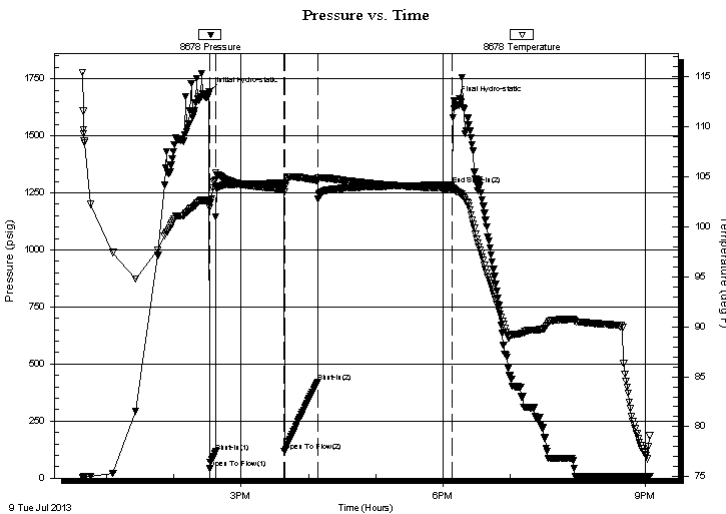
2013.07.09 @ 14:31:45

Time Off Btm:

2013.07.09 @ 18:10:00

TEST COMMENT: IF: BOB @ 3 min.
IS: No return.
FF: BOB @ 3 min.
FS: No return.

PRESSURE SUMMARY



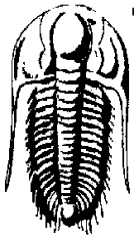
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1692.61	102.66	Initial Hydro-static
1	41.64	101.89	Open To Flow (1)
6	114.80	104.70	Shut-In(1)
67	1292.18	103.79	End Shut-In(1)
67	116.41	103.49	Open To Flow (2)
97	420.73	104.61	Shut-In(2)
217	1284.16	103.80	End Shut-In(2)
219	1653.26	103.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
625.00	mcw 5m 95w	8.48
145.00	mcw 20m 80w (oil spots)	2.03
1.00	oil 100o	0.01

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc, Inc

11 5s 23w Norton, Ks

1315 Wynkoop, STE 700
Denver, Co 80202

Hager Trust 1-11

Job Ticket: 52876

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2013.07.09 @ 12:39:00

GENERAL INFORMATION:

Formation: **LKC - D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:32:00

Time Test Ended: 21:04:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: **3444.00 ft (KB) To 3476.00 ft (KB) (TVD)**

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3476.00 ft (KB) (TVD)

2247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8677 Inside

Press @ Run Depth: psig @ 3445.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.09

End Date: 2013.07.09

Last Calib.: 2013.07.09

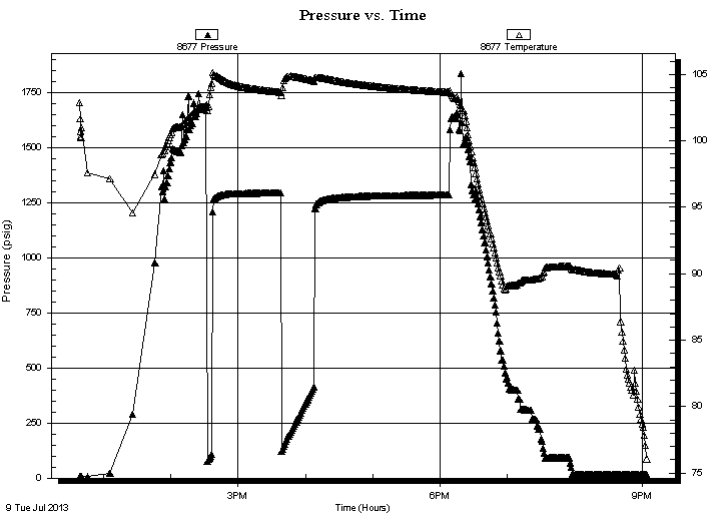
Start Time: 12:39:05

End Time: 21:03:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 3 min.
IS: No return.
FF: BOB @ 3 min.
FS: No return.



PRESSURE SUMMARY

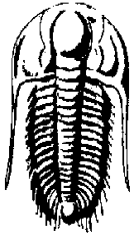
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
625.00	mcw 5m 95w	8.48
145.00	mcw 20m 80w (oil spots)	2.03
1.00	oil 100o	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc, Inc

11 5s 23w Norton, Ks

1315 Wynkoop, STE 700
Denver, Co 80202

Hager Trust 1-11

ATTN: Clayton Camozzi

Job Ticket: 52876

DST#: 1

Test Start: 2013.07.09 @ 12:39:00

GENERAL INFORMATION:

Formation: **LKC - D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:32:00

Time Test Ended: 21:04:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: **3444.00 ft (KB) To 3476.00 ft (KB) (TVD)**

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3476.00 ft (KB) (TVD)

2247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8522 Fluid

Press @ Run Depth: psig @ 3410.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.09

End Date: 2013.07.09

Last Calib.: 2013.07.09

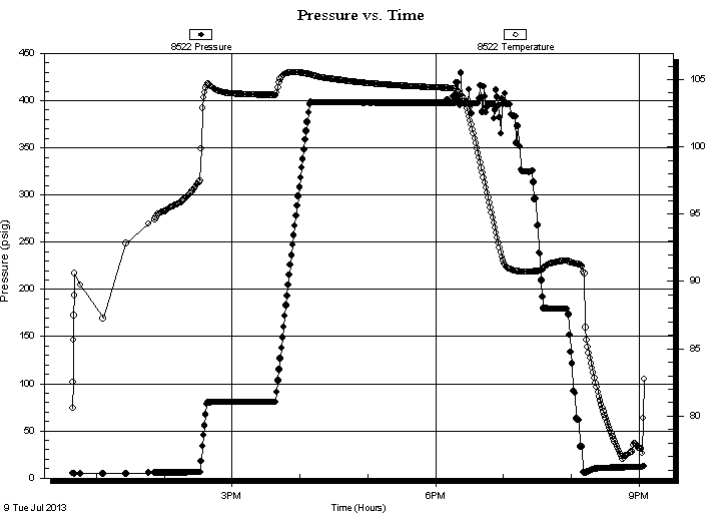
Start Time: 12:39:05

End Time: 21:05:14

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 3 min.
IS: No return.
FF: BOB @ 3 min.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
625.00	mcw 5m 95w	8.48
145.00	mcw 20m 80w (oil spots)	2.03
1.00	oil 100o	0.01

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Assoc, Inc

11 5s 23w Norton, Ks

1315 Wynkoop, STE 700
Denver, Co 80202

Hager Trust 1-11

Job Ticket: 52876

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2013.07.09 @ 12:39:00

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:

65000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
625.00	mcw 5m 95w	8.485
145.00	mcw 20m 80w (oil spots)	2.034
1.00	oil 100o	0.014

Total Length: 771.00 ft Total Volume: 10.533 bbl

Num Fluid Samples: 0

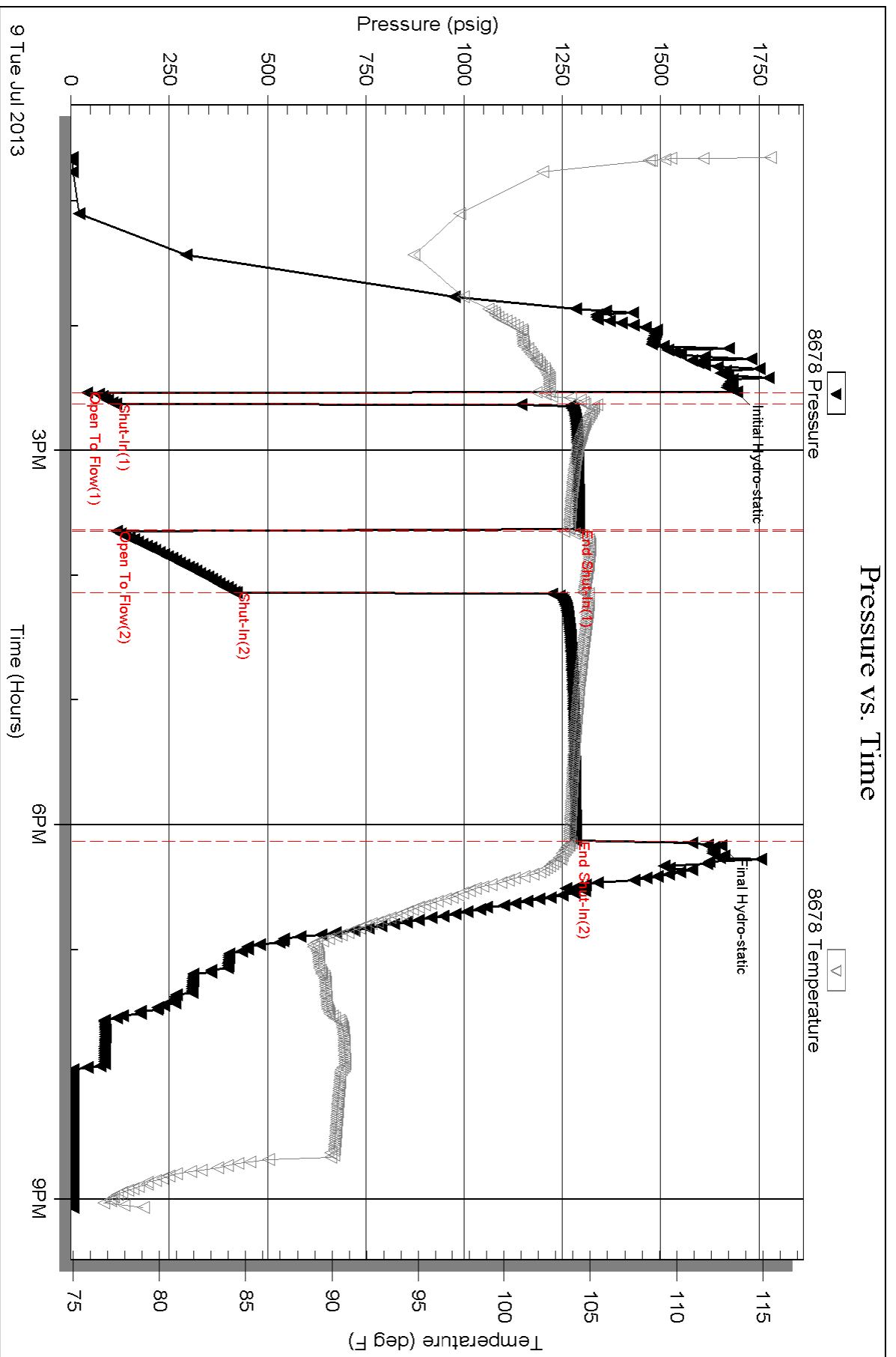
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data = 2000ml w ater w/oil spots
rw is .113 @ 74F = 65000ppm



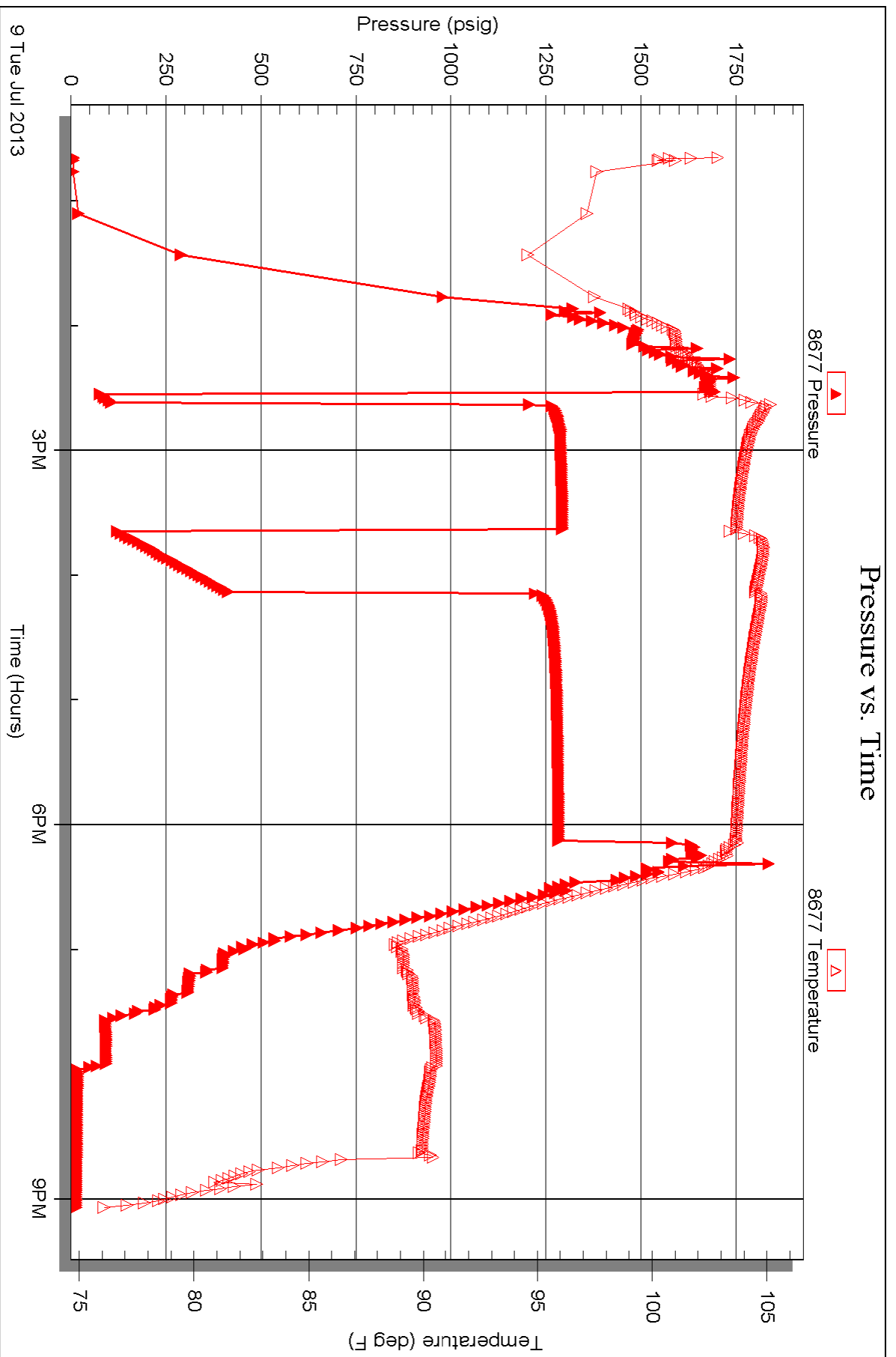
Serial #: 8677

Inside

Samuel Gary Jr & Assoc, Inc

Hager Trust 1-11

DST Test Number: 1



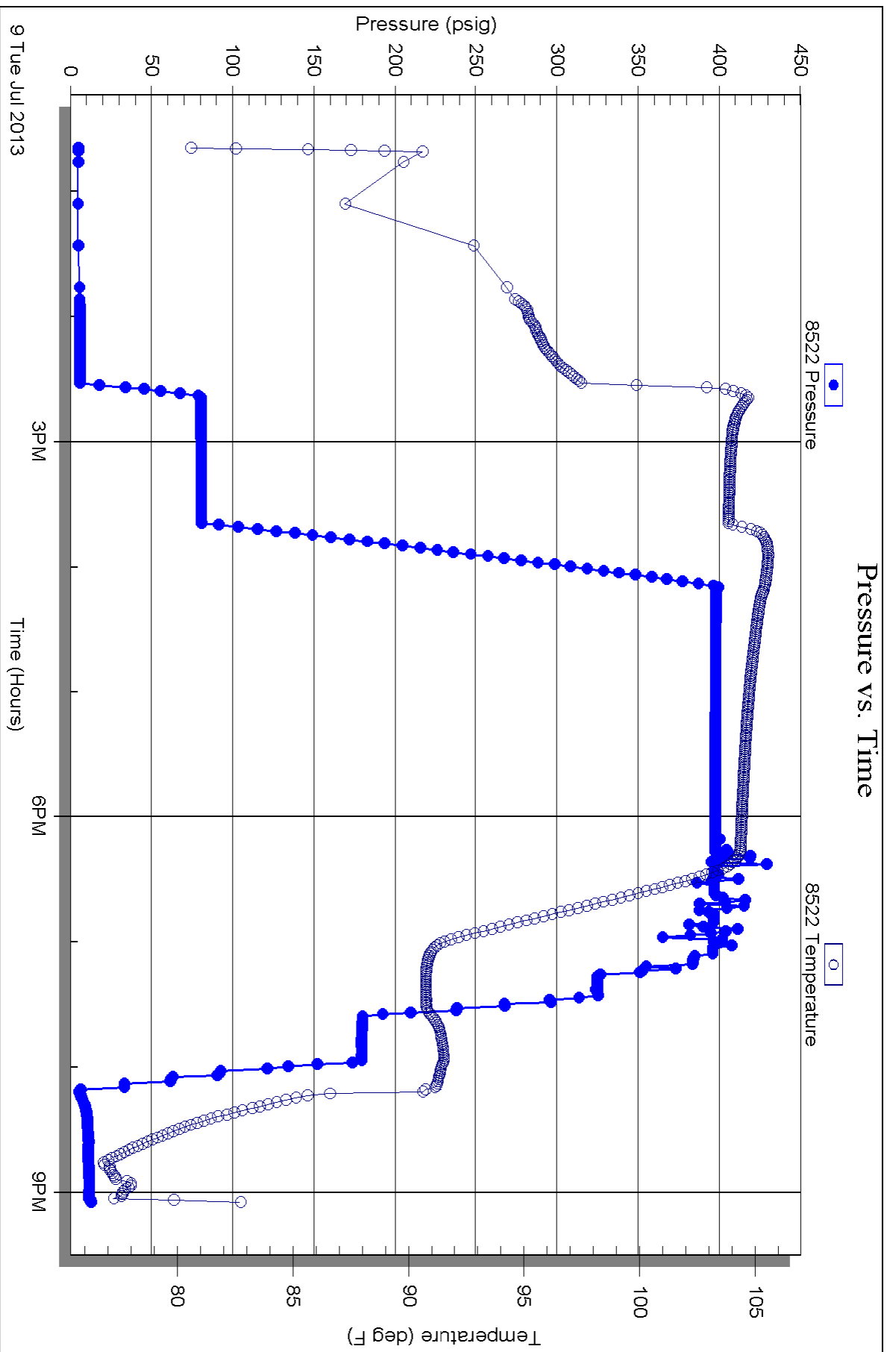
Serial #: 8522

Fluid

Samuel Gary Jr & Assoc, Inc

Hager Trust 1-11

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc, Inc

11 5s 23w Norton, Ks

1315 Wynkoop, STE 700
Denver, Co 80202

Hager Trust 1-11

ATTN: Clayton Camozzi

Job Ticket: 52877

DST#: 2

Test Start: 2013.07.10 @ 05:47:00

GENERAL INFORMATION:

Formation: **LKC D-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:32:45

Time Test Ended: 13:53:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 3492.00 ft (KB) To 3531.00 ft (KB) (TVD)

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3531.00 ft (KB) (TVD)

2247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8678 Outside

Press @ Run Depth: 119.44 psig @ 3493.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.10

End Date: 2013.07.10

Last Calib.: 2013.07.10

Start Time: 05:47:05

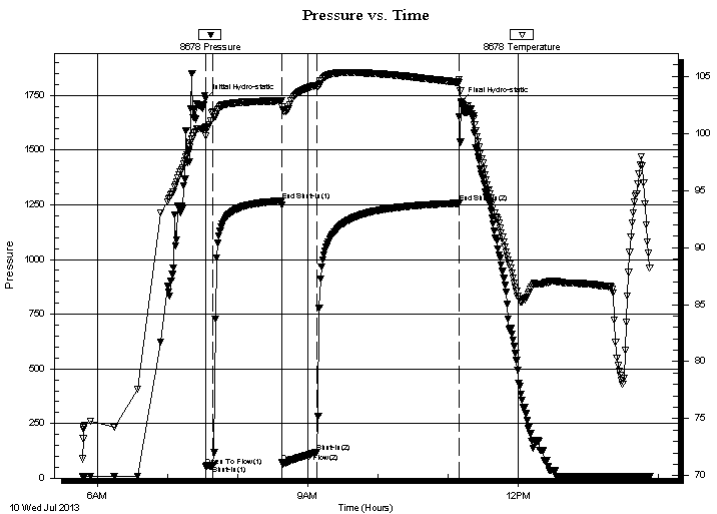
End Time: 13:53:29

Time On Btm: 2013.07.10 @ 07:32:30

Time Off Btm: 2013.07.10 @ 11:11:30

TEST COMMENT: IF: 9" blow.
IS: No return.
FF: BOB @ 7 min.
FS: 2" return. receded to 1/2".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1736.41	100.55	Initial Hydro-static
1	52.07	99.77	Open To Flow (1)
7	58.13	101.87	Shut-In(1)
65	1268.21	102.85	End Shut-In(1)
66	70.46	102.36	Open To Flow (2)
95	119.44	104.19	Shut-In(2)
217	1257.68	104.47	End Shut-In(2)
219	1721.69	102.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	sgocm 5g 35o 60m	1.12
170.00	gsmco 30g 5m 65o	2.38
0.00	350 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc, Inc

1315 Wynkoop, STE 700
Denver, Co 80202

ATTN: Clayton Camozzi

11 5s 23w Norton, Ks

Hager Trust 1-11

Job Ticket: 52877

DST#: 2

Test Start: 2013.07.10 @ 05:47:00

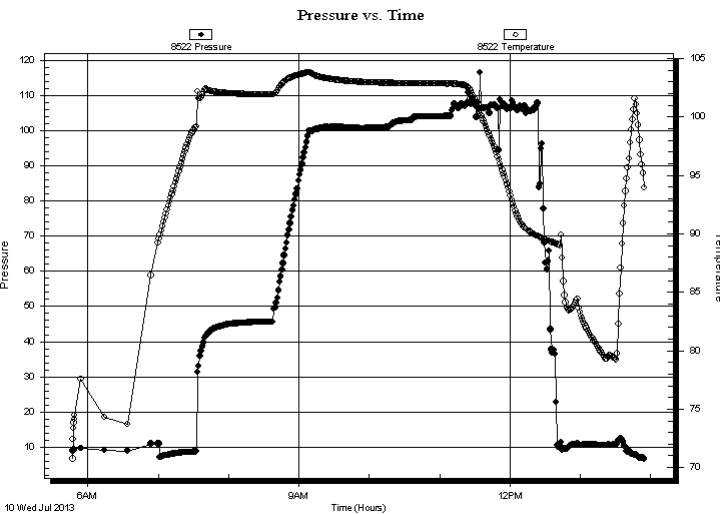
GENERAL INFORMATION:

Formation: **LKC D-E**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:32:45
 Time Test Ended: 13:53:30
 Interval: **3492.00 ft (KB) To 3531.00 ft (KB) (TVD)**
 Total Depth: 3531.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 53
 Reference Elevations: 2255.00 ft (KB)
 2247.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8522 Fluid

Press @ Run Depth: psig @ 3458.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2013.07.10 End Date: 2013.07.10 Last Calib.: 2013.07.10
 Start Time: 05:47:05 End Time: 13:54:44 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 9" blow.
 IS: No return.
 FF: BOB @ 7 min.
 FS: 2" return. receded to 1/2".



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
100.00	sgocm 5g 35o 60m	1.12
170.00	gsmco 30g 5m 65o	2.38
0.00	350 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Assoc, Inc

11 5s 23w Norton, Ks

1315 Wynkoop, STE 700
Denver, Co 80202

Hager Trust 1-11

Job Ticket: 52877

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2013.07.10 @ 05:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	sgocm 5g 35o 60m	1.120
170.00	gsmco 30g 5m 65o	2.385
0.00	350 GIP	0.000

Total Length: 270.00 ft Total Volume: 3.505 bbl

Num Fluid Samples: 0

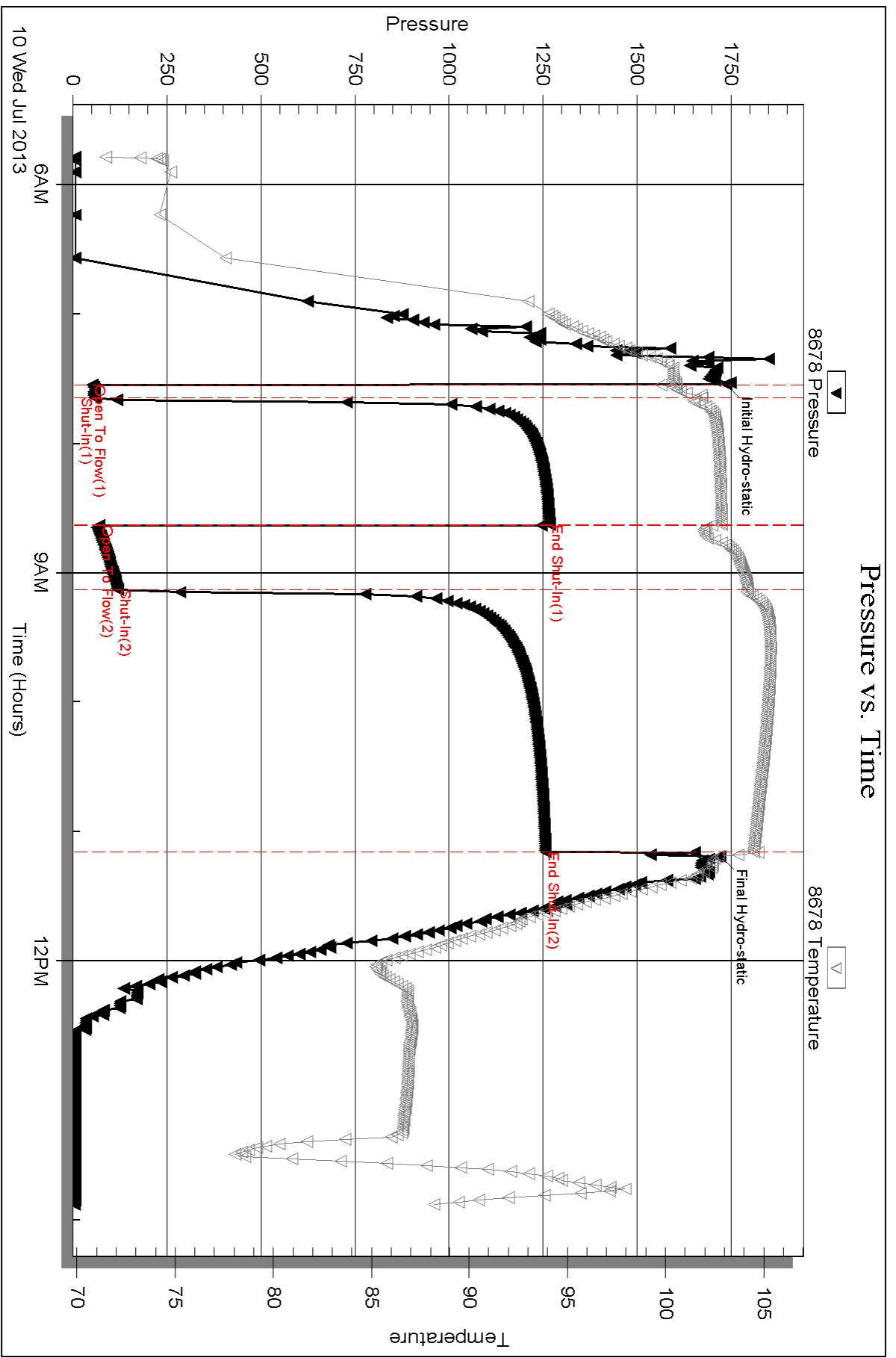
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler - 2,000ml oil /600psi / 0.7 Cubic Ft Gas



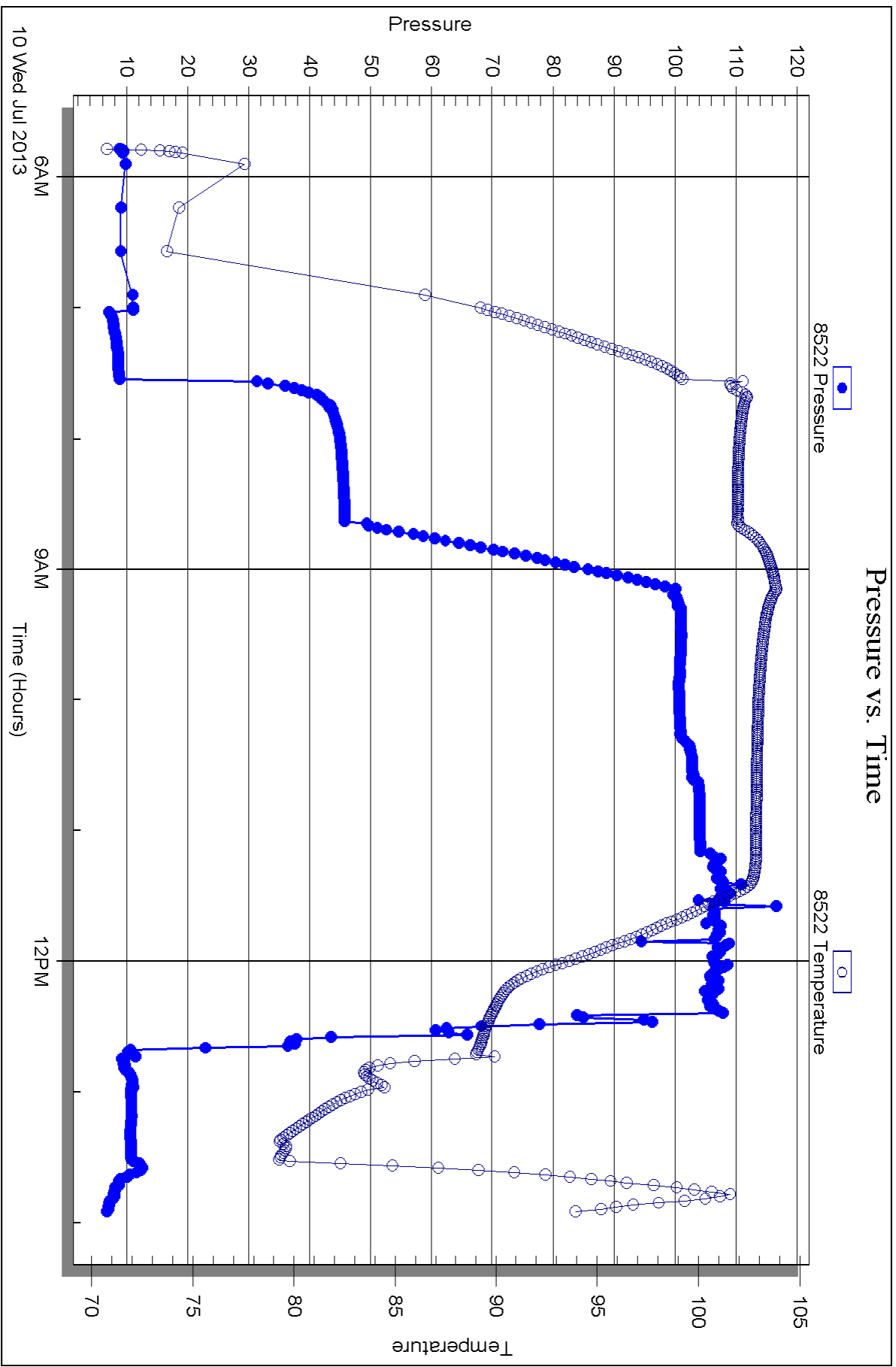
Serial #: 8522

Fluid

Samuel Gary Jr & Assoc, Inc

Hager Trust 1-11

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc, Inc

11 5s 23w Norton, Ks

1315 Wynkoop, STE 700
Denver, Co 80202

Hager Trust 1-11

ATTN: Clayton Camozzi

Job Ticket: 52879

DST#: 3

Test Start: 2013.07.10 @ 22:46:00

GENERAL INFORMATION:

Formation: **LKC - F & G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:49:00

Time Test Ended: 07:05:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 3523.00 ft (KB) To 3583.00 ft (KB) (TVD)

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3583.00 ft (KB) (TVD)

2247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8678 Outside

Press @ Run Depth: 107.80 psig @ 3524.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.10

End Date: 2013.07.11

Last Calib.: 2013.07.11

Start Time: 22:46:05

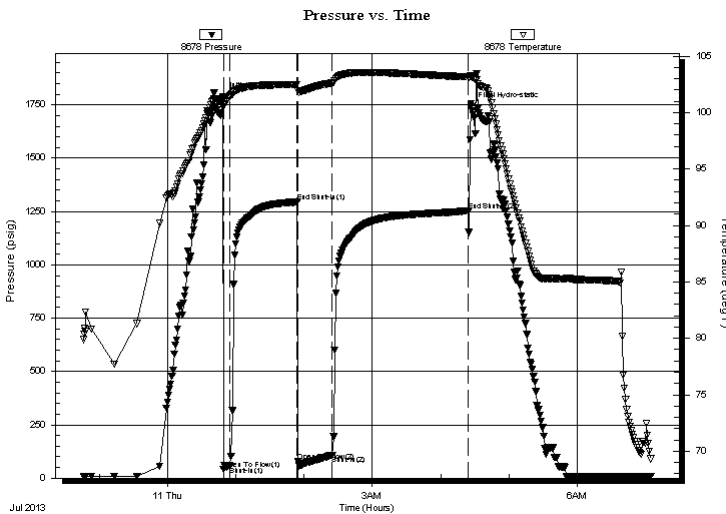
End Time: 07:05:29

Time On Btm: 2013.07.11 @ 00:48:45

Time Off Btm: 2013.07.11 @ 04:27:00

TEST COMMENT: IF: 9" blow.
IS: No return.
FF: BOB @ 7 min.
FS: 3" return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1790.21	101.24	Initial Hydro-static
1	41.58	100.72	Open To Flow (1)
6	57.13	101.40	Shut-In(1)
65	1294.61	102.45	End Shut-In(1)
66	79.50	101.94	Open To Flow (2)
96	107.80	102.61	Shut-In(2)
216	1253.97	103.16	End Shut-In(2)
219	1742.86	103.20	Final Hydro-static

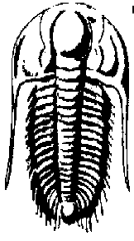
Recovery

Length (ft)	Description	Volume (bbl)
80.00	sgocm 5g 25o 70m	0.84
165.00	gsmco 20g 3m 77o	2.31
0.00	500 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc, Inc

11 5s 23w Norton, Ks

1315 Wynkoop, STE 700
Denver, Co 80202

Hager Trust 1-11

Job Ticket: 52879

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2013.07.10 @ 22:46:00

GENERAL INFORMATION:

Formation: **LKC - F & G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:49:00

Time Test Ended: 07:05:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 3523.00 ft (KB) To 3583.00 ft (KB) (TVD)

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3583.00 ft (KB) (TVD)

2247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8522 Fluid

Press @ Run Depth: psig @ 3489.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.10

End Date:

2013.07.11

Last Calib.:

2013.07.11

Start Time: 22:46:05

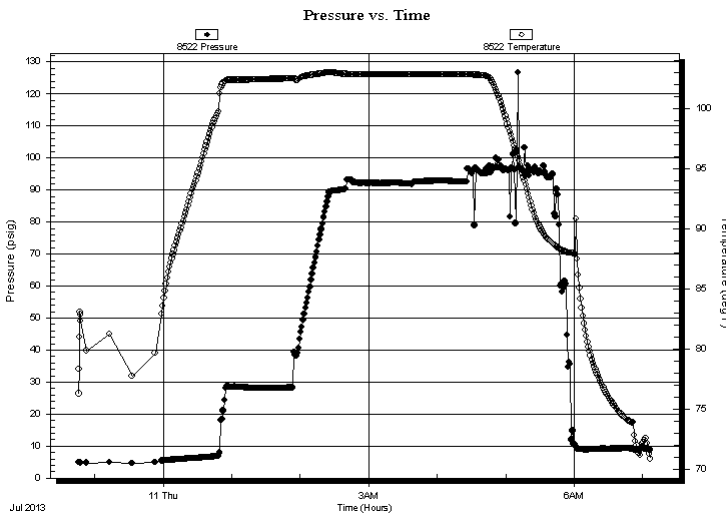
End Time:

07:06:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 9" blow.
IS: No return.
FF: BOB @ 7 min.
FS: 3" return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
80.00	sgocm 5g 25o 70m	0.84
165.00	gsmco 20g 3m 77o	2.31
0.00	500 GIP	0.00

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 & Assoc, Inc

11 5s 23w Norton, Ks

1315 Wynkoop, STE 700
Denver, Co 80202

Hager Trust 1-11

Job Ticket: 52879

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2013.07.10 @ 22:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	sgocm 5g 25o 70m	0.840
165.00	gsmco 20g 3m 77o	2.315
0.00	500 GIP	0.000

Total Length: 245.00 ft Total Volume: 3.155 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

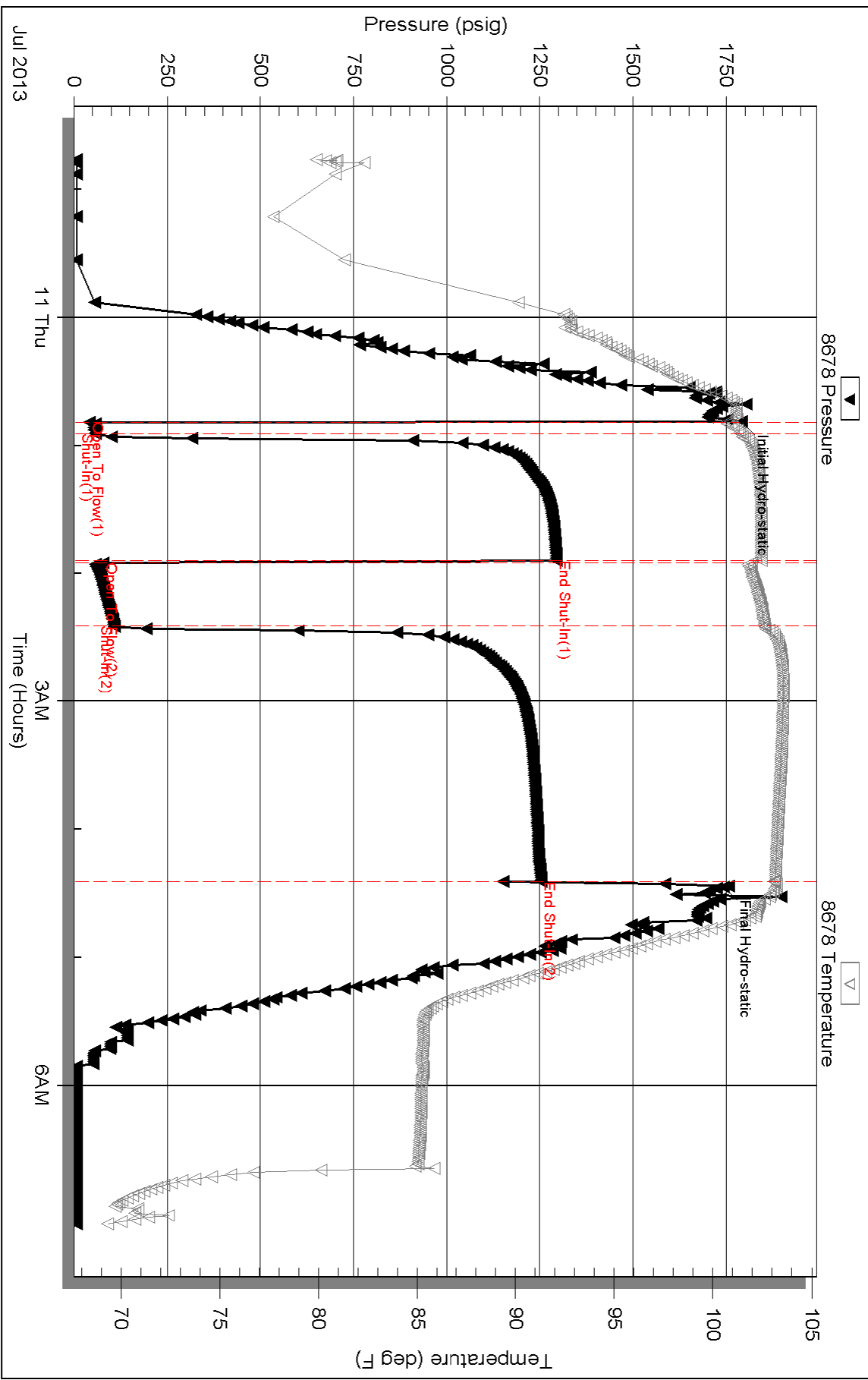
Laboratory Location:

Recovery Comments: Sampler - 2,000 ml Oil

250 PSIG

0.2 Cubic Ft of gas

Pressure vs. Time



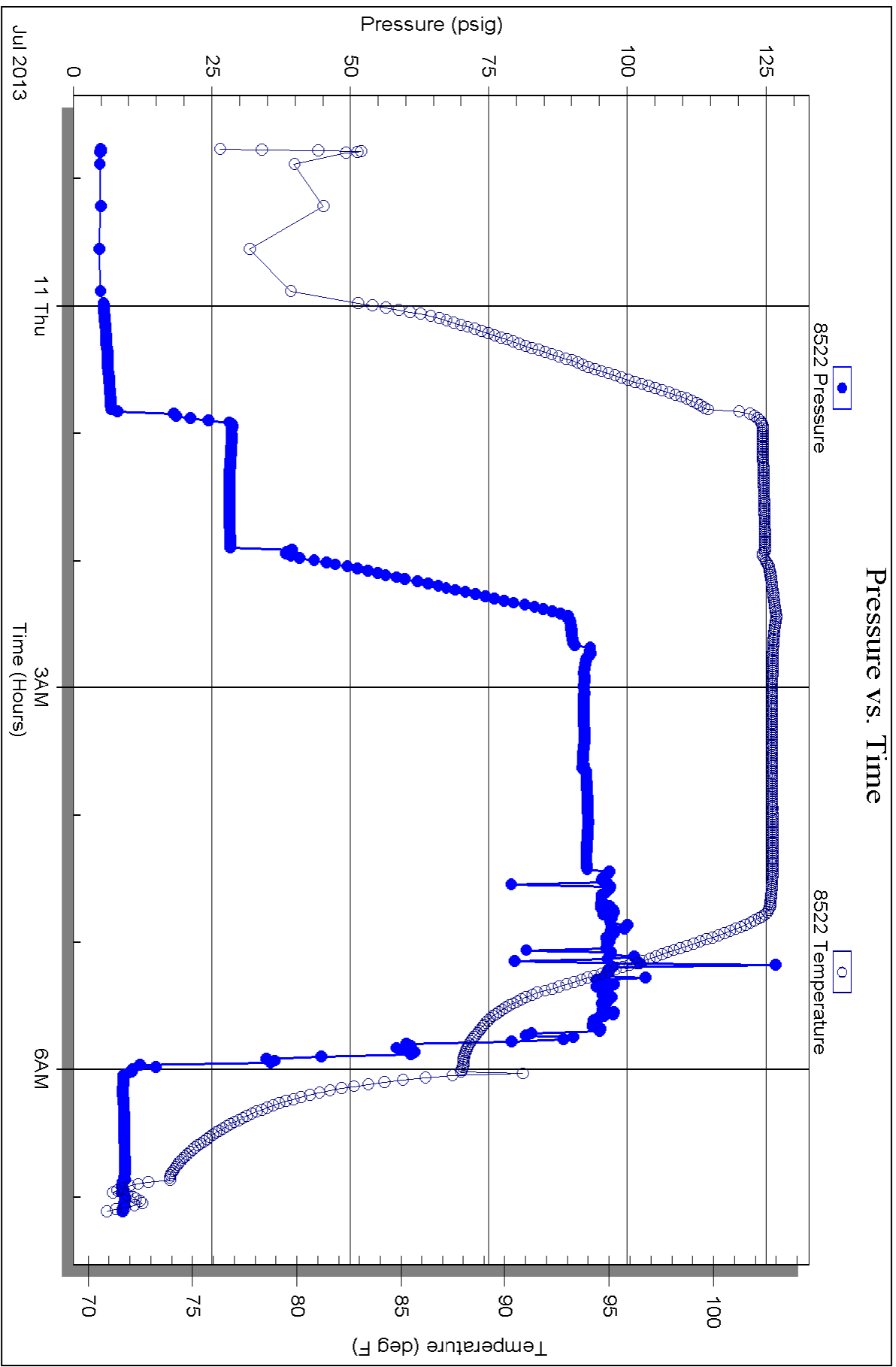
Serial #: 8522

Fluid

Samuel Gary Jr & Assoc, Inc

Hager Trust 1-11

DST Test Number: 3





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

Well Name: Hager Trust 1-11
 Location: Sec. 11-5S-23W Norton County, Kansas
 License Number: 15-137-20657-0000
 Spud Date: July 5, 2013
 Surface Coordinates: 1500 FSL/ 500 FWL
 Region: WILDCAT
 Drilling Completed: July 12, 2013

Bottom Hole Coordinates:
 Ground Elevation (ft): 2247' K.B. Elevation (ft): 2255'
 Logged Interval (ft): 3150' To: 3860' Total Depth (ft): 3860'
 Formation:
 Type of Drilling Fluid:

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

OPERATOR

Company: Samuel Gary Jr. & Assoc.
 Address: 1515 Wynkoop, Ste. # 700
 Denver, Colo. 80202
 Geo: Clayton Camozzi

GEOLOGIST

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

DST's Report

DST#1 3444'-3476' 5 60 30 120
 IF- BOB @ 3 MIN/ ISI- NO RETURN/ FF- BOB @ 3 MIN/ FSI- NO RETURN
 IH- 1693, FH- 1653/ IF- 42 TO 116/ FF- 115 TO 421/ ISI- 1292, FSI- 1284
 RECOVERY- 1' OIL/ 145' MCW W/ OIL SPOTS 80% WATER, 20% MUD/ 625' MCW 95% WATER, 5% MUD
 SAMPLER- 2000 ML WATER/ 2000 ML TOTAL

DST's Report

DST#2 3492'-3531' 5 60 20 120
 IF- 9" BLOW/ ISI- NO RETURN/ FF- BOB @ 7 MIN/ FSI- 2" RETURN RECEDED TO 1/2"
 IH- 1736, FH- 1722/ IF- 52 TO 70/ FF- 58 TO 119/ ISI- 1268, FSI- 1258
 RECOVERY- 170' GSMCO 30% GAS, 65% OIL, 5% MUD/ 100' SGOCM 5% GAS, 35% OIL, 60% MUD/ 350' GIP
 SAMPLER- 2000 ML OIL/ 2000 ML TOTAL

DST's Report

DST#3- 3523'-3583' 5 60 30 120
 IF- 9" BLOW/ ISI- NO RETURN/ FF- BOB @ 7 MIN/ FSI- 3" RETURN
 IH- 1790, FH- 1743/ IF- 42 TO 80/ FF- 57 TO 108/ ISI- 1295, FSI- 1254
 RECOVERY- 165' GSMCO- 20% GAS, 77% OIL, 3% MUD/ 80' SGOCM- 5% GAS, 25% OIL, 70% MUD/ 500' GIP
 SAMPLER- 2000 ML OIL/ 2000 ML TOTAL

ROCK TYPES

Anhy
 Bent
 Brec
 Cht
 Clyst
 Coal
 Congl
 Dol

Gyp
 Igne
 Lmst
 Meta
 Mrlst
 Salt
 Shale
 Shcol

Shgy
 Sltst
 Ss
 Till
 Carb sh
 Dol
 Dtd
 Gry sh

Sandylms
 Shale
 Sltstn
 Shlyslts
 Sitysh
 Lms

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brefracg
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Slty

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

STRINGER

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

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandyms
- Sh
- Sltstn

TEXTURE

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

OTHER SYMBOLS

POROSITY TYPE

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

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOWS

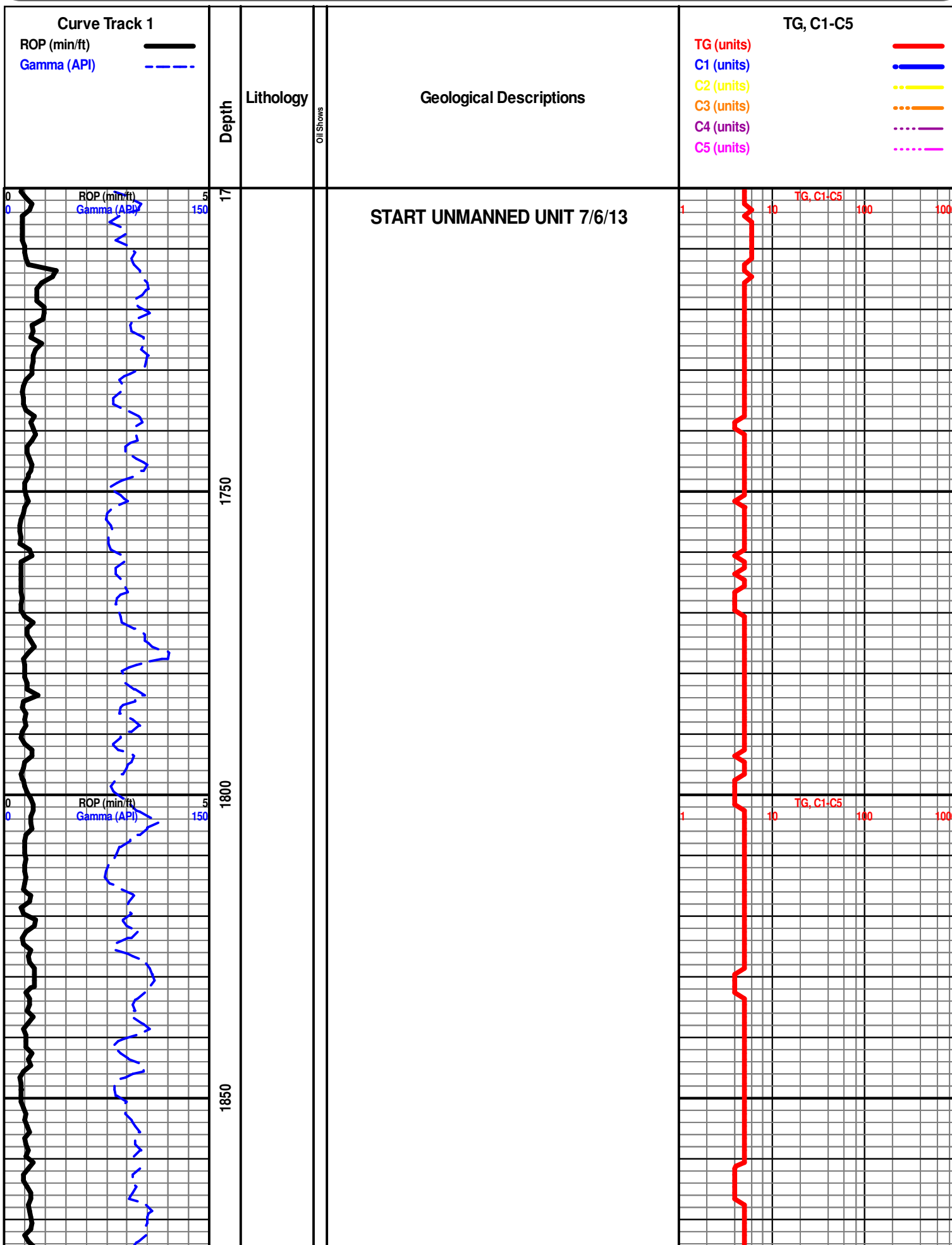
- Even
- Spotted
- Ques
- Dead
- Gas show

INTERVALS

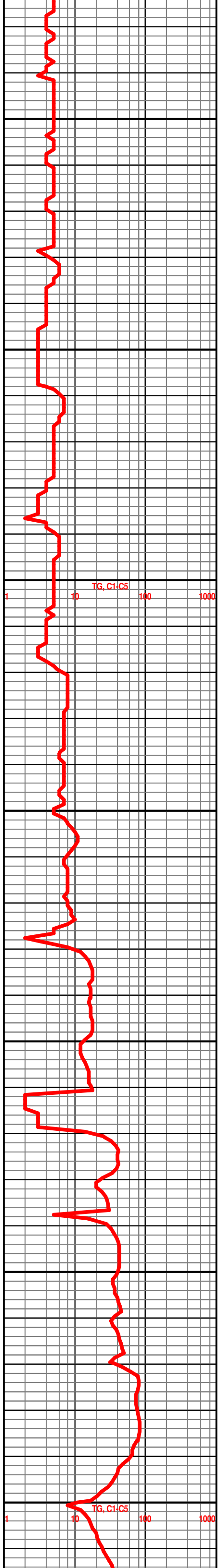
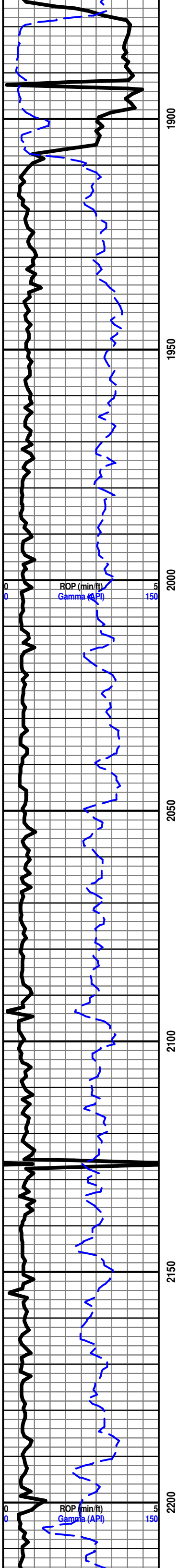
- Core
- Dst
- Dst

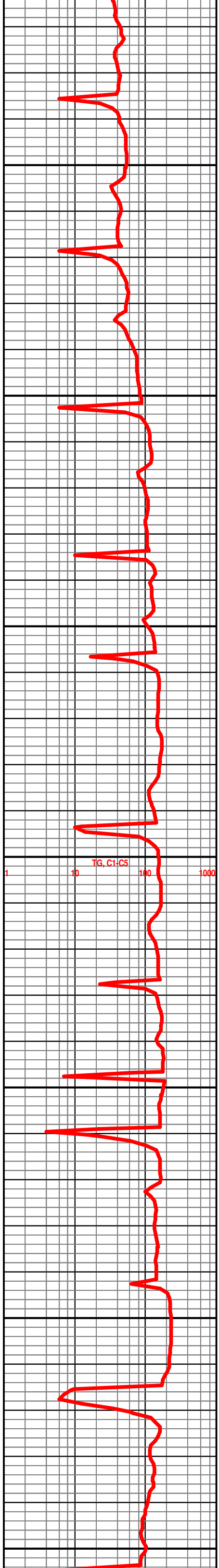
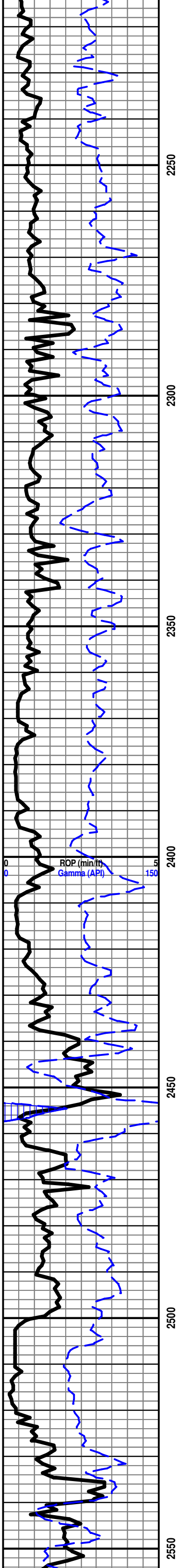
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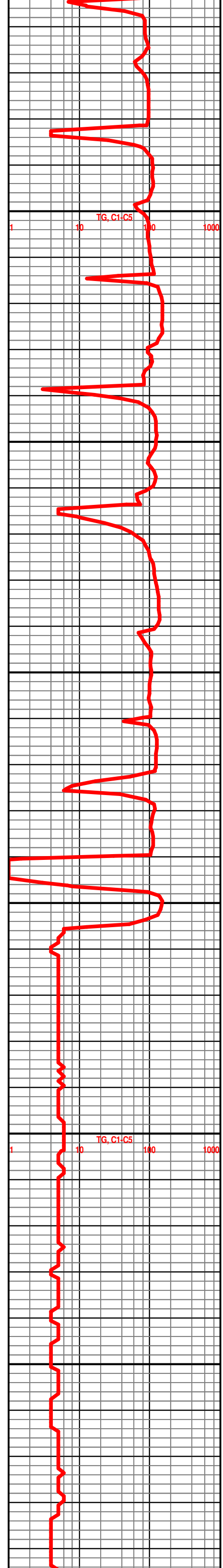
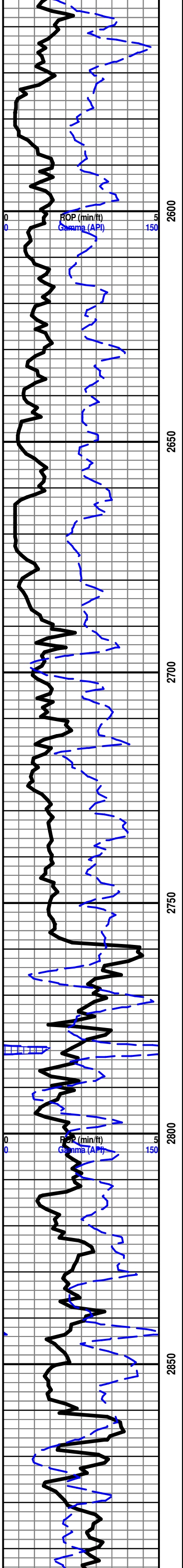
- Rft
- Sidewall

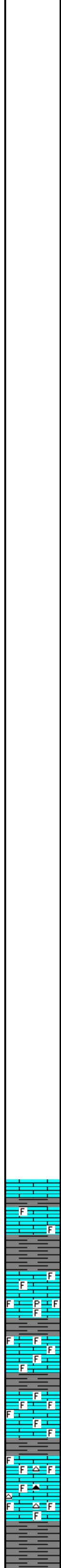
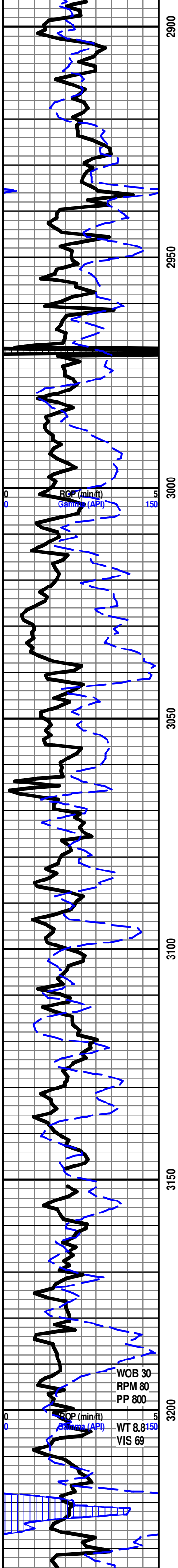


STONE CORRAL 1776' -371'









JANESVILLE SHALE 2939' -684'

START 24 HOUR MANNED UNIT 7/7/13

LS- TN DK TN TO GY, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GY TO BRWN, FRM BLKY, SMTH TO SLTY TXT
LS- LT TN TO TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD FOSS FRG THRU, SLI TR PYR IN TRAY, SLI TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

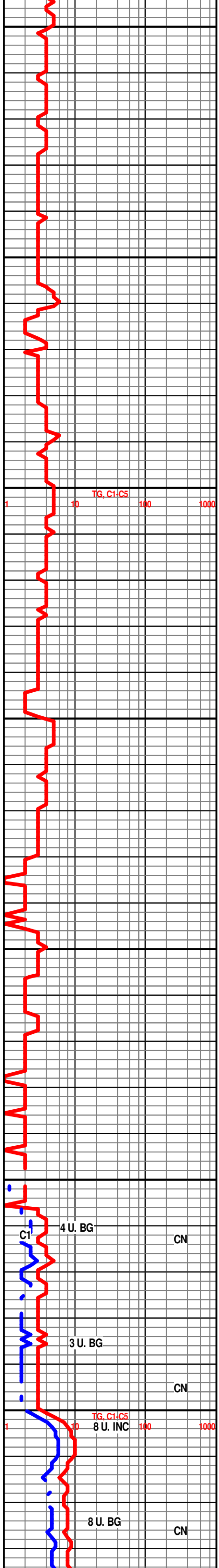
LS- CRM TO LT TN, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S-CHLKY IP, IMBD FOSS FRG THRU, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

TOPEKA 3195' -940'

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

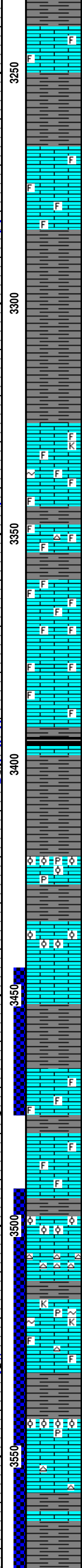
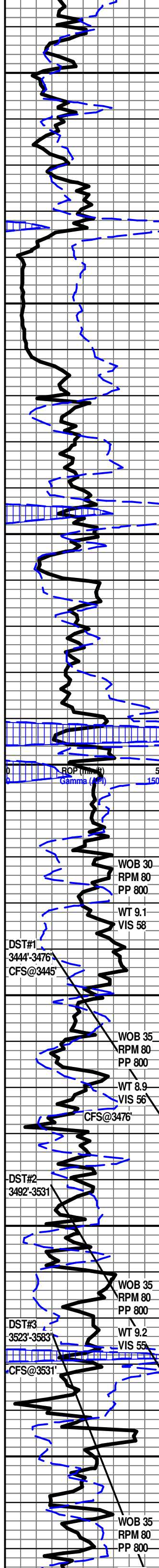
LS- CRM TO LT TN, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S-CHLKY IP, ABDT IMBD FOSS FRG THRU, SCAT BRWN TO ORNG CHRT IN TRAY, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- BRWN TO GY, FRM BLKY TO SFT GMMY, SLTY TXT



WOB 30
RPM 80
PP 800
WT 8.8
VIS 69

C1 4 U. BG CN
3 U. BG
8 U. BG CN
8 U. INC



LS- OFF WHT TO CRM, HD DNS TO BRIT, V/F TO F XLN CHLKY MTRX, S-SUCRO IP, SCAT IMBD FOSS FRG THRU, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

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

SH- BRWN RED TO GY, SFT GMMY FRM BLKY, SLTY TXT

LS- CRM LT TN TO TN, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S-CHLKY IP, SCAT IMBD FOSS FRG THRU, SLI TR IMBD KAOL OR GLAUC, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, IMBD FOSS FRG THRU, SLI TR IMBD ORNG CHRT IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, ABDT IMBD FOSS FRG THRU, SLI TR IMBD CALC XLS IP, NO VIS FLO, PR TO FR INTR FOSS POR IN 2%, NO VIS SHOW

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

HEEBNER 3392' -1143'
SH- BLCK, SFT, CARB

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

3420'-3422' LS- CRM TO LT TN W/ TN OIL STN IN 80%, LOS IN 2%, HD DNS TO BRIT, F XLN SUCRO MTRX, ABDT IMBD OOL THRU, PYR IN TRAY, DUL YEL GLD FLO IN 80%, GD TO V/GD INTR OOL POR IN 8%, GD INSN FLSH CUT THRU, GD TO V/GD SLW STRM IN 80%, DK TN LCH ON DISH, NO OIL ODOR

LANSING 3433' -1178'
3436'-3438' LS- CRM TO LT TN W/ TN OIL STN IN 60%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, IMBD OOL THRU, DUL YEL GLD FLO IN 60%, GD INTR OOL POR IN 3%, PR TO FR VUG POR IN 3%, GD FLSH CUT IN 70%, GD SLW STRM IN 70%, TN LCH ON DISH, NO OIL ODOR

SH- BRWN RED TO GY, SFT GMMY TO FRM BLKY, SLTY TXT

LANSING "B" 3466' -1211'
3472'-3474' LS- LT TN TO TN W/ TN OIL STN IN 90%, LOS IN 1%, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, ABDT SM TO MD LS S-ANG TO ANG LS GRNS THRU, SLI TR IMBD FOSS FRG IP, SLI TR CALC XLS IP, DUL YEL GLD FLO IN 80%, BRT YEL GLD FLO IN 10% GD INTR GRN POR IN 8%, GD VUG POR IN 3%, GD INSN FLSH CUT THRU, GD SLW STRM IN 90%, DK TN LCH ON DISH, NO OIL ODOR

3485'-3487' LS- CRM TO LT TN W/ TN OIL STN IN 50%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, SCAT IMBD FOSS FRG THRU, DUL YEL GLD FLO IN 50%, PR VUG POR IN 3%, FR TO GD VUG POR IN 2%, WK FLSH VUG IN 50%, PR TO FR SLW STRM IN 50%, LT TN LCH ON DISH

3499'-3500' LS- CRM TO LT TN W/ TN OIL STN IN 70%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD OOL THRU, DUL YEL GLD FLO IN 70%, FR TO GD INTR OOL POR IN 6%, FR FLSH CUT IN 70%, FR SLW STRM IN 70%, TN LCH ON DISH

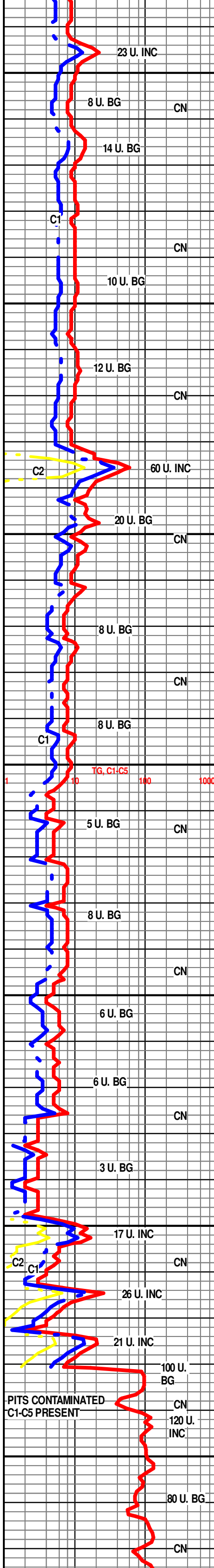
LS- CRM TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, SCAT IMBD KAOL OR GLAUC, SLI TR IMBD PYR IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

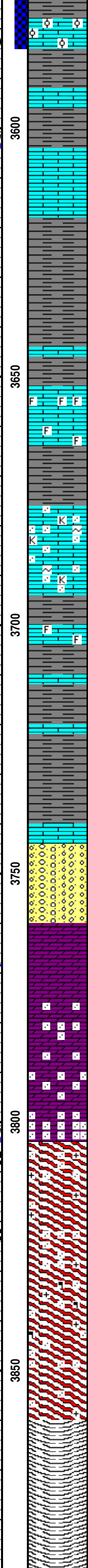
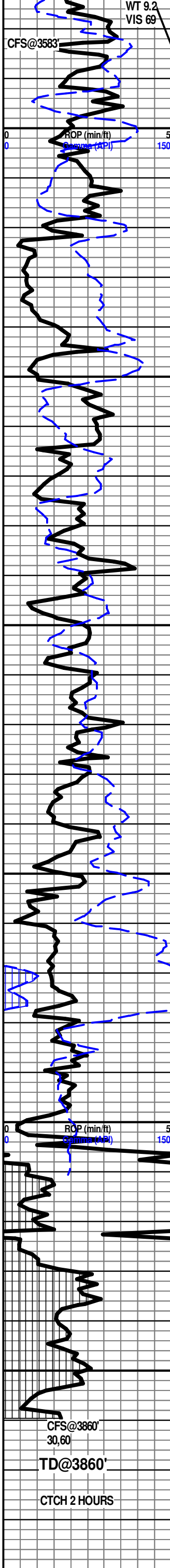
LS- TN TO DK TN MOTT, HD DNS, F TO MD XLN RE-XLN MTRX, S-SUCRO, SCAT IMBD FOSS FRG THRU, SLI TR FRSTY CHRT IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LANSING "F" SHALE 3532' -1277'
SH- GRN BRWN RED GY TO DK GY, FRM BLKY, SLTY TXT

3542'-3544' LS- CRM TO LT TN W/ TN OIL STN IN 75%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD OOL THRU, TR IMBD DISS PYR IP, DUL YEL GLD FLO IN 75%, FR TO GD INTR OOL POR IN 5%, FR FLSH CUT IN 80%, FR TO GD SLW STRM IN 75%, DK TN LCH ON DISH, WK OIL ODOR

SH- BRWN RED TO GY, FRM BLKY TO SFT GMMY, SMTH TXT





LANSING "G" 3578' -1323'

3579'-3581' LS- LT TN TO TN W/ TN OIL STN IN 90%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABTD IMBD OOL THRU, DUL YEL GLD FLO IN 50%, BRT YEL GLD FLO IN 40%, PR TO FR INTR OOL POR IN 4%, PR TO FR VUG POR IN 2%, VGD VUG POR IN 1%, GD FLSH CUT THRU, FR TO GD SLW STRM IN 90%, DK TN LCH ON DISH, NO OIL ODOR

3594'-3595' LS- CRM TO LT TN W/ DOS IN 15%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLK IP, DUL YEL GLD FLO IN 10%, PR INTR XLN POR IN 2%, FR FLSH CUT IN 20%, FR TO GD SLW STRM IN 25%, NO LCH ON DISH

3605'-3606' LS- CRM TO LT TN W/ TN OIL STN IN 55%, LOS IN 5%, HD DNS TO BRIP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, BRT YEL GLD FLO IN 50%, PR TO FR VUG POR IN 4%, GD TO V/GD VUG POR IN 1%, GD INSNT FLSH CUT IN 60%, GD SLW STRM IN 60%, DK TN LCH ON DISH, SCAT OIL DROPLETS IN TRAY

BKC 3618' -1323'

SH- BRWN TO RED, SFT GMMY

SH- BRWN TO RED, SFT GMMY

LS- OFF WHT TO CRM, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, S- CHLKY IP, ABTD IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- BRWN TO GY, SFT GMMY TO FRM BLKY IP, SMTH TXT

LS- CRM TO LT TN, HD DSN TO BRIT, F XLN SUCRO MTRX, ABTD IMBD MD S-RND TO RND QRTZ GRNS THRU SLI TR IMBD KAOL OR GLAUC IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

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

SH- BRWN RED TO GY, FRM BLKY TO SFT GMMY IP, SMTH TXT

CONG- LS- CRM TO LT TN, HD DNS TO BRIT, F XLN SUCRO MTRX, SH- BRWN YEL RED TO GY, FRM BLKY, SMTH TXT, CHRT- OFF WHT TN YEL TO ORNG, SCAT QRTZ XLS

ARBUCKLE 3760' -1505'

DOLO- OFF WHT TO CRM, HD DNS TO BRIT IP, V/F TO F XLN CHLKY MTRX, ABTD IMBD SM S-ANG TO ANG DOLO GRNS THRU, NO VIS FLO, PR TO FR INTR GRN POR IN 10%, NO VIS SHOW

DOLO- CRM TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABTD IMBD SM TO MD S-ANG TO ANG DOLO GRNS THRU, SCAT IMBD SM TO MD RND QRTZ GRNS THRU, NO VIS FLO, PR TO FR INTR GRN POR IN 10%, NO VIS SHOW

DOLO- CRM TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABTD IMBD SM TO MD S-ANG TO S-RND DOLO GRNS THRU, SCAT IMBD SM TO MD RND QRTZ XLS IMBD THRU, SLI TR IMBD KAOL OR GLAUC, ABTD QRTZ IN TRAY, NO VIS FLO, PR TO FR INTR GRN POR IN 10%, NO VIS CUT OR SHOW

GRANITE 3803' -1548'

GRNTE- CLR FRSTY ORNG TO PNK, HD DNS, ABTD IMBD BIOTITE THRU, SLI TR FELDSPAR IN TRAY, ABTD QRTZ, NO VIS FLO, NO VIS POR, NO VIS SHOW

GRNTE- CLR FRSTY ORNG TO PNK, HD DNS, ABTD IMBD BIOTITE THRU, SLI TR FELDSPAR IN TRAY, ABTD QRTZ, NO VIS FLO, NO VIS POR, NO VIS SHOW

GRNTE- CLR FRSTY ORNG TO PNK, HD DNS, ABTD IMBD BIOTITE THRU, SLI TR IMBD HEMATITE IP, SLI TR FELDSPAR IN TRAY, ABTD QRTZ, NO VIS FLO, NO VIS POR, NO VIS SHOW

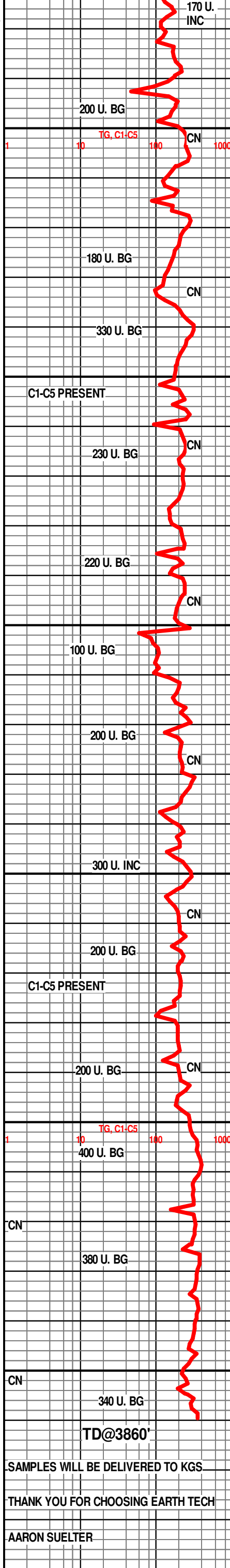
GRNTE- CLR FRSTY ORNG TO PNK, HD DNS, ABTD IMBD BIOTITE THRU, SLI TR FELDSPAR IN TRAY, ABTD QRTZ, NO VIS FLO, NO VIS POR, NO VIS SHOW

R.T.D. @ 1:00 AM 7/12/13

DROP SURVEY

TOFL

WEATHERFORD/LIBERAL



CFS@3860'
30,60

TD@3860'

CTCH 2 HOURS

TD@3860'

SAMPLES WILL BE DELIVERED TO KGS.

THANK YOU FOR CHOOSING EARTH TECH

AARON SUELTER