



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1152997
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: _____



1152997

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	V. P. 1-30
Doc ID	1152997

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
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
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

July 25, 2013

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

Re: ACO1
API 15-051-26507-00-00
V. P. 1-30
SW/4 Sec.30-14S-17W
Ellis County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
CHRISTOPHER MITCHELL



QUALITY OILWELL CEMENTING, INC.

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

Date: 4/9/2012
 Invoice # 6731

P.O.#:

Due Date: 5/9/2012

Division: Russell

Invoice

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

RECEIVED

APR 12 2013

SAMUEL GARY JR.
 & ASSOCIATES, INC.

Reference:

V P 1-30

Description of Work:
 LONG SURFACE JOB

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	9	\$57.07	No
Common-Class A	425	\$ 5,786.31	Yes				
8 5/8" Basket	3	\$ 1,029.26	Yes				
Bulk Truck Mall-Material Service Charge	438	\$ 951.09	No				
Calcium Chloride	15	\$ 776.18	Yes				
Flo Seal	100	\$ 217.14	Yes				
8 5/8" Centralizer	3	\$ 208.46	Yes				
Premium Gel (Bentonite)	8	\$ 141.40	Yes				
8 5/8" Top Rubber Plug	1	\$ 115.09	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 97.71	Yes				
Pump Truck Mileage-Job to Nearest Camp	9	\$ 97.52	No				

Invoice Terms:

Net 30

SubTotal: \$ 10,468.61
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,570.29)

SubTotal for Taxable Items:	\$ 7,115.82
SubTotal for Non-Taxable Items:	\$ 1,782.50
Total:	\$ 8,898.32
Tax:	\$ 448.30

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 9,346.62
Applied Payments:
Balance Due: \$ 9,346.62

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

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

No. 6731

Cell 785-324-1041

Date	4-5-13	Sec.	30	Twp.	14	Range	17	County	Ellis	State	KS	On Location	1:30pm	Finish	3:45p
------	--------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--------	--------	-------

Lease V.P. Well No. 1-30 Location MUNJOK 15 1/2 E N into Owner _____

Contractor Val #6 To Quality Oilwell Cementing, Inc.
 Type Job Surface You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/4 T.D. 982 ft Charge To Sam Gouy Tr & Assoc
 Csg. 8 5/8 Depth 982.53 Street _____ State _____

Tbg. Size _____ Depth _____ City _____ State _____
 Tool _____ Depth _____

Cement Left in Csg. 42.19 Shoe Joint 42.19 Cement Amount Ordered 425 3%cc 2% gel
 Meas Line _____ Displace 59.3/4 BBL 1/4 flow

EQUIPMENT
 Common 425
 Poz. Mix _____
 Gel. 8
 Calcium 15

Pumptrk	5	No.	Cementor	<u>Not</u>
			Helper	<u>Not</u>
Bulktrk	4	No.	Driver	<u>Brett</u>
			Driver	<u>Brett</u>
Bulktrk	<u>du</u>	No.	Driver	<u>Doug</u>
			Driver	<u>Doug</u>

JOB SERVICES & REMARKS
 Remarks: _____
 Rat Hole _____
 Mouse Hole _____

Centralizers 1 16 23
 Baskets 2 17 22
 D/V or Port Collar _____

Cement Did Circulate
 Handling 438
 Mileage _____

(1000+ LFA)
Float Equipment
 Guide Shoe _____
 Centralizer 3 8 5/8
 Baskets 3 8 5/8

AFU Inserts _____
 Float Shoe _____
 Latch Down _____

Baffle Plate 8 5/8
Rubber Plug 8 5/8
 Pumptrk Charge Long Surface
 Mileage 9

Tax _____
 Discount _____
 Total Charge _____

Signature _____



QUALITY OILWELL CEMENTING, INC.

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

Date: 4/15/2013
 Invoice # 6692

P.O.#:
 Due Date: 5/15/2013
 Division: Russell

Invoice

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

Reference:
 VP 1-30

Description of Work:
 PROD LONG STRING

RECEIVED

APR 17 2013

SAMUEL GARY JR.
 & ASSOCIATES, INC.

DRLG COMP W/O LOE GG

Account: 8300.238

Well/Prospect:

Deck:

AFE: [Signature]

Approval:

Description:

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No	Latch Down Plug & Baffle, 5 1/2"	1	\$243.20	Yes
Common-Class A	225	\$ 3,063.34	Yes	Flo Seal	56	\$121.60	Yes
CFL 117	176	\$ 1,177.09	Yes	Pump Truck Mileage-Job to Nearest Camp	9	\$97.52	No
5 1/2" Basket	3	\$ 749.14	Yes	KCL	2	\$64.84	Yes
Bulk Truck Matl-Material Service Charge	254	\$ 551.54	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	9	\$57.07	No
CD-110	117	\$ 508.11	Yes				
5 1/2" Turbolizer	8	\$ 503.77	Yes				
Mud Clear	500	\$ 401.71	Yes				
Defoamer A or CAF-38	50	\$ 380.00	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 332.23	Yes				
Salt (Fine)	19	\$ 287.97	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 9,530.53

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,429.58)

SubTotal for Taxable Items: \$ 6,658.06

SubTotal for Non-Taxable Items: \$ 1,442.89

Total: \$ 8,100.95

Tax: \$ 419.46

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 8,520.41

Applied Payments:

Balance Due: \$ 8,520.41

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. 6692

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-11-13	30	14	17	Ellis	KS		11:00pm

Lease ~~VP~~ **VP** Well No. **1-30** Location **major 1 1/2 E into**

Contractor **Val #6** Owner To Quality Oilwell Cementing, Inc.
Type Job **Production String** 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 **7 7/8** T.D. **3640** Charge To **Sam Gary Jr & Assoc.**

Csg. **5 1/2** Depth **3635** 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. **4234** Shoe Joint _____ Cement Amount Ordered **225 @ Pro C 12% salt, 5% Gilsenite**

Meas Line _____ Displace **85 1/2 B L 1/4 #110, 3% CD 110, 8% CFL 117, 25% CAF 38**

EQUIPMENT		Common	225	20 B L K C L	500 gal mud flush
Pumptrk	No. 9	Cementor			
		Helper			
Bulktrk	No.	Driver			
		Driver			
Bulktrk	No. 8	Driver			
		Driver			

JOB SERVICES & REMARKS Poz. Mix _____

Remarks: _____ Gel. _____

Rat Hole **30SK** _____ Calcium **CD 110 - 117 #**

Mouse Hole **15SK** _____ Hulls **KCL - 26 gal**

Centralizers _____ Salt **19**

Baskets _____ Flowseal **56 #**

D/V or Port Collar _____ Kol-Seal **1057 #**

5 1/2 set @ 3635. Insert @ 3592.6 Mud CLR 48 **500 gal**

Est. Circulation - Pump @ 2 gal mud clear CFL-117 or CD110 (CAF 38) **50 #**

10 B L spacer - Plug Kather mouse hole. Sand **> 176 #**

Cement 5 1/2 w. 180SK. Clear lines Handling **254**

Displace Plug. Mileage _____

Landed Plug @ 1500 #. **FLOAT EQUIPMENT**

Light @ 800 # Guide Shoe **5 1/2**

Shut in @ 1000 # Centralizer **8 Turbo's**

Baskets **3**

AEL Inserts **Rubber Plug**

Float Shoe **1**

Latch Down **Insert Rotator**

Pumptrk Charge **prod Long String**

Mileage **9**

Signature _____ Tax _____

Discount _____

Total Charge _____



DRILL STEM TEST REPORT

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

1515 Wynkoop Ste 700
Denver CO 80202

ATTN: Christopher Mitchell

VP #1-30

30-14s-17w Ellis,KS

Start Date: 2013.04.09 @ 01:49:46

End Date: 2013.04.09 @ 11:21:01

Job Ticket #: 50949 DST #: 1

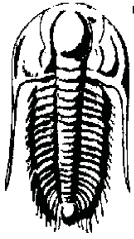
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.16 @ 13:24:25

Samuel Gary Jr & Associates Inc
30-14s-17w Ellis,KS
VP #1-30
DST # 1
Lansing C-D
2013.04.09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

30-14s-17w Ellis,KS

1515 Wynkoop Ste 700
Denver CO 80202

VP #1-30

Job Ticket: 50949

DST#: 1

ATTN: Christopher Mitchell

Test Start: 2013.04.09 @ 01:49:46

GENERAL INFORMATION:

Formation: **Lansing C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:07:31

Time Test Ended: 11:21:01

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

Interval: 3235.00 ft (KB) To 3285.00 ft (KB) (TVD)

Reference Elevations: 1946.00 ft (KB)

Total Depth: 3285.00 ft (KB) (TVD)

1941.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6755 Inside

Press@RunDepth: 72.98 psig @ 3236.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.09

End Date:

2013.04.09

Last Calib.: 2013.04.09

Start Time: 01:49:51

End Time:

11:21:01

Time On Btm: 2013.04.09 @ 05:05:16

Time Off Btm: 2013.04.09 @ 08:46:16

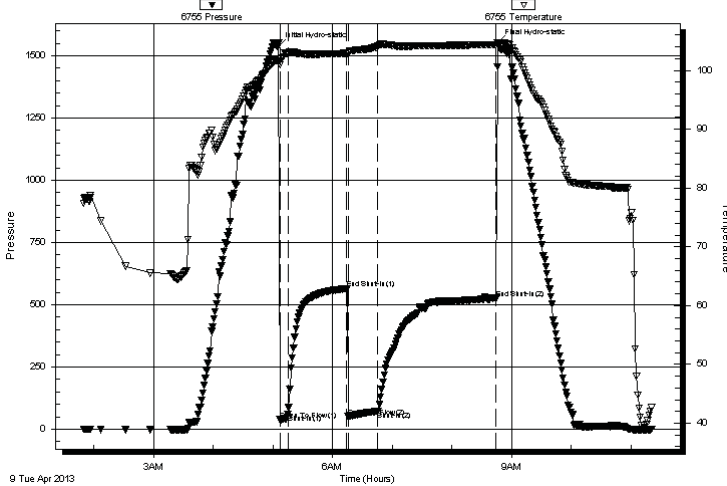
TEST COMMENT: IF: Weak blow 3 1/2"

ISI: No blow back

FF: Fair blow 5"

FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

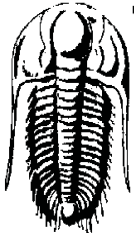
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1535.90	101.63	Initial Hydro-static
3	35.87	101.65	Open To Flow (1)
10	60.85	102.90	Shut-In(1)
69	563.87	102.92	End Shut-In(1)
71	50.38	102.93	Open To Flow (2)
101	72.98	104.10	Shut-In(2)
220	526.40	104.39	End Shut-In(2)
221	1550.84	104.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	O,W,M 1%oil 39%w ater 60%mud	1.12

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

30-14s-17w Ellis,KS

1515 Wynkoop Ste 700
Denver CO 80202

VP #1-30

Job Ticket: 50949

DST#: 1

ATTN: Christopher Mitchell

Test Start: 2013.04.09 @ 01:49:46

GENERAL INFORMATION:

Formation: **Lansing C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:07:31

Time Test Ended: 11:21:01

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

Interval: 3235.00 ft (KB) To 3285.00 ft (KB) (TVD)

Reference Elevations: 1946.00 ft (KB)

Total Depth: 3285.00 ft (KB) (TVD)

1941.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8676 Fluid

Press@RunDepth: psig @ 3199.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.09

End Date: 2013.04.09

Last Calib.: 2013.04.09

Start Time: 02:01:46

End Time: 11:23:26

Time On Btm:

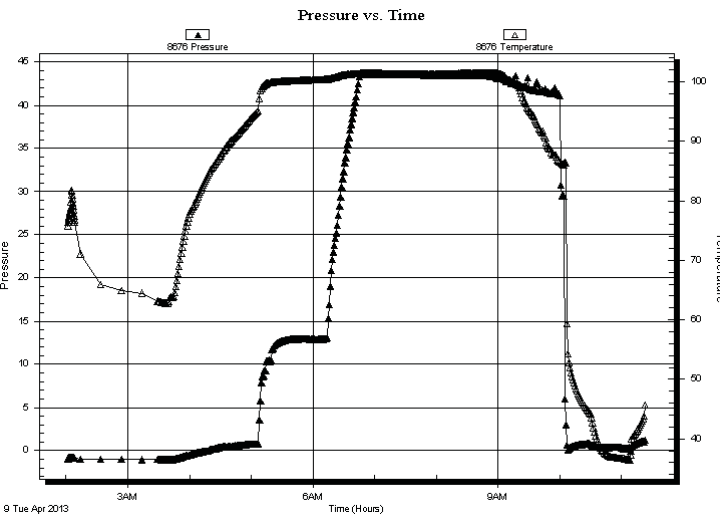
Time Off Btm:

TEST COMMENT: IF: Weak blow 3 1/2"

ISI: No blow back

FF: Fair blow 5"

FSI No blow back



PRESSURE SUMMARY

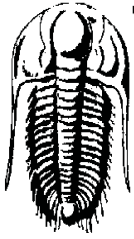
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
80.00	O,W,M 1%oil 39%w ater 60%mud	1.12

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

30-14s-17w Ellis,KS

1515 Wynkoop Ste 700
Denver CO 80202

VP #1-30

Job Ticket: 50949

DST#: 1

ATTN: Christopher Mitchell

Test Start: 2013.04.09 @ 01:49:46

GENERAL INFORMATION:

Formation: **Lansing C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:07:31

Time Test Ended: 11:21:01

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

Interval: 3235.00 ft (KB) To 3285.00 ft (KB) (TVD)

Reference Elevations: 1946.00 ft (KB)

Total Depth: 3285.00 ft (KB) (TVD)

1941.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6773 Outside

Press@RunDepth: psig @ 3236.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.09 End Date: 2013.04.09

Last Calib.: 2013.04.09

Start Time: 01:56:11 End Time: 11:21:51

Time On Btm:

Time Off Btm:

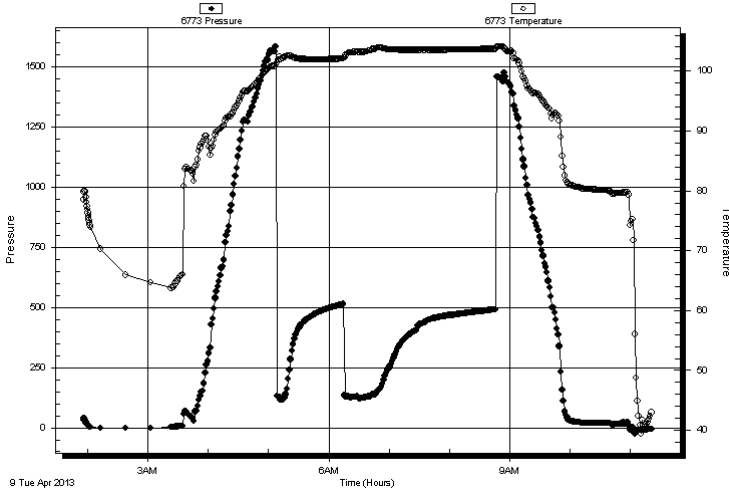
TEST COMMENT: IF: Weak blow 3 1/2"

ISI: No blow back

FF: Fair blow 5"

FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

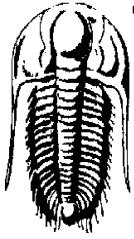
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
80.00	O,W,M 1%oil 39%w ater 60%mud	1.12

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Associates Inc

30-14s-17w Ellis,KS

1515 Wynkoop Ste 700
Denver CO 80202

VP #1-30

Job Ticket: 50949

DST#: 1

ATTN: Christopher Mitchell

Test Start: 2013.04.09 @ 01:49:46

Tool Information

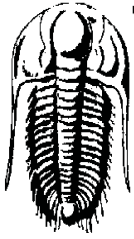
Drill Pipe:	Length: 3220.00 ft	Diameter: 3.80 inches	Volume: 45.17 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 45.17 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3235.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	86.00 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	8676	Fluid	3199.00	
Stubb	4.00			3203.00	
Change Over Sub	1.00			3204.00	
Shut In Tool	5.00			3209.00	
Sampler	3.00			3212.00	
Hydraulic tool	5.00			3217.00	
Jars	5.00			3222.00	
Safety Joint	3.00			3225.00	
Packer	5.00			3230.00	36.00 Bottom Of Top Packer
Packer	5.00			3235.00	
Stubb	1.00			3236.00	
Recorder	0.00	6773	Outside	3236.00	
Recorder	0.00	6755	Inside	3236.00	
Change Over Sub	0.50			3236.50	
Drill Pipe	31.00			3267.50	
Change Over Sub	0.50			3268.00	
Perforations	14.00			3282.00	
Bullnose	3.00			3285.00	50.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates Inc

30-14s-17w Ellis,KS

1515 Wynkoop Ste 700
Denver CO 80202

VP #1-30

Job Ticket: 50949

DST#: 1

ATTN: Christopher Mitchell

Test Start: 2013.04.09 @ 01:49:46

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	65000 ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5200.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	O,W,M 1%oil 39%w ater 60%mud	1.122

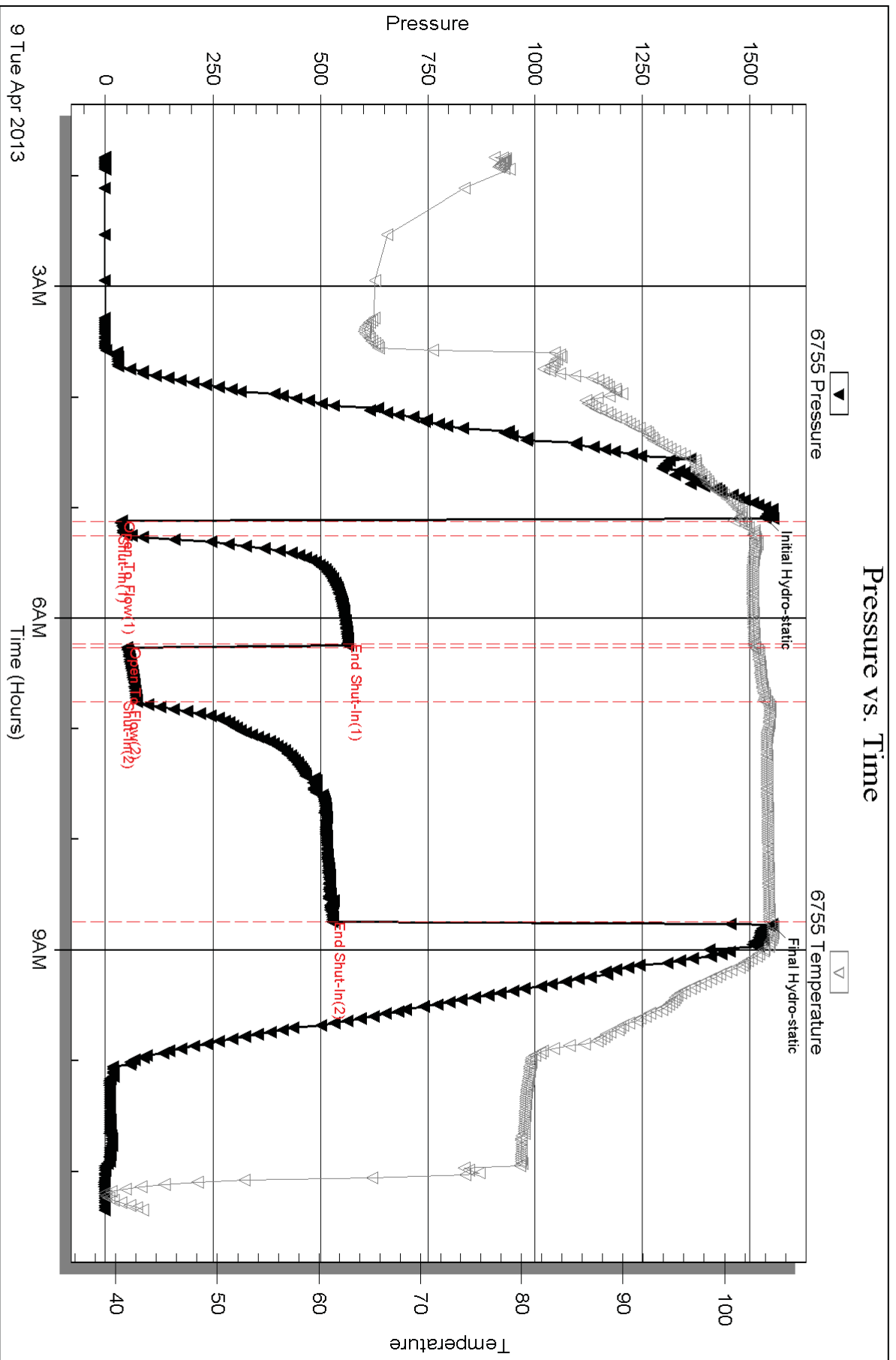
Total Length: 80.00 ft Total Volume: 1.122 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler 200# pressure
200 Milleters fluid 40% w ater 60% mud

Pressure vs. Time



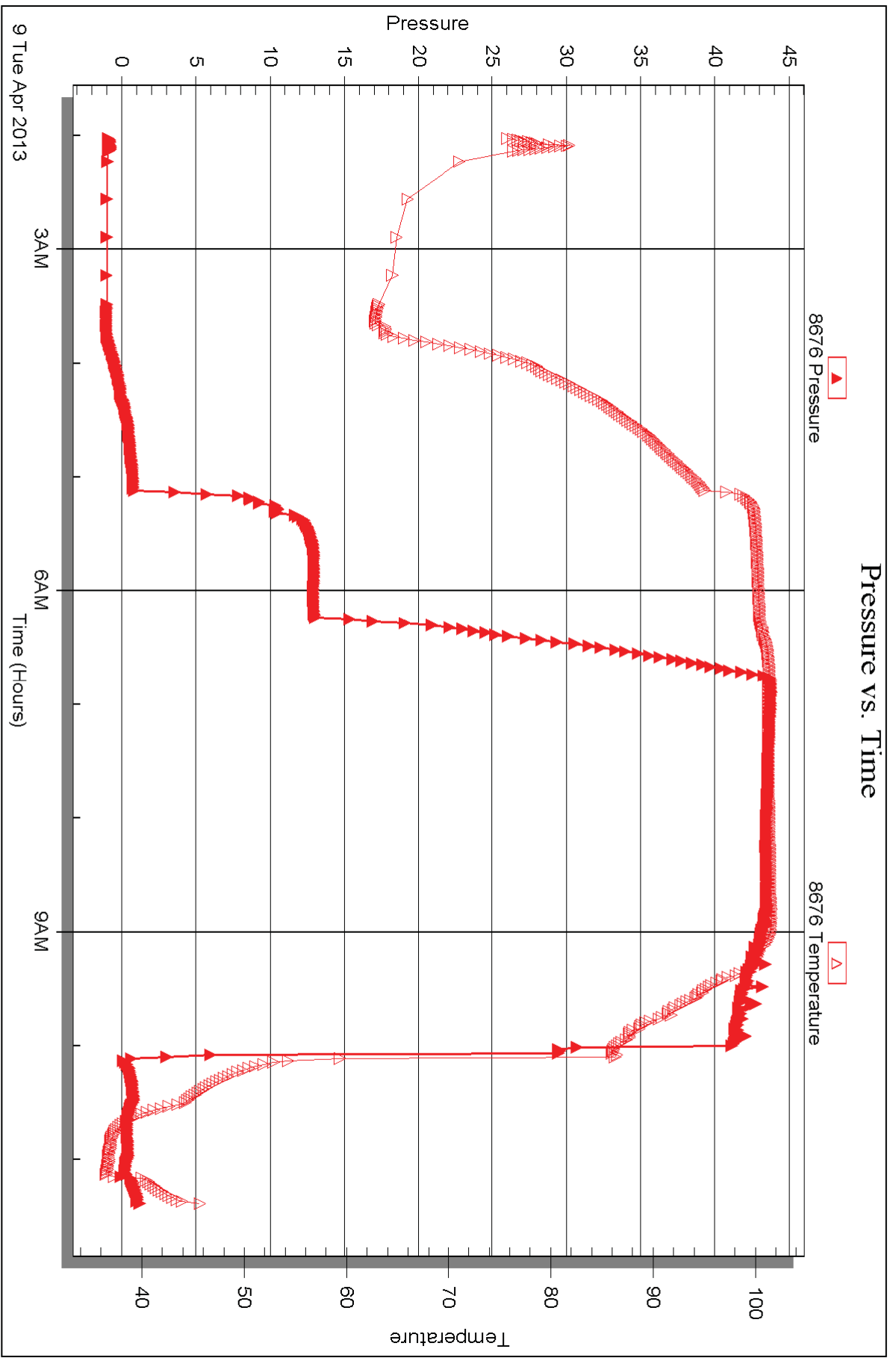
Serial #: 8676

Fluid

Samuel Gary Jr & Associates Inc

VP#1-30

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 50949

Printed: 2013.04.16 @ 13:24:29

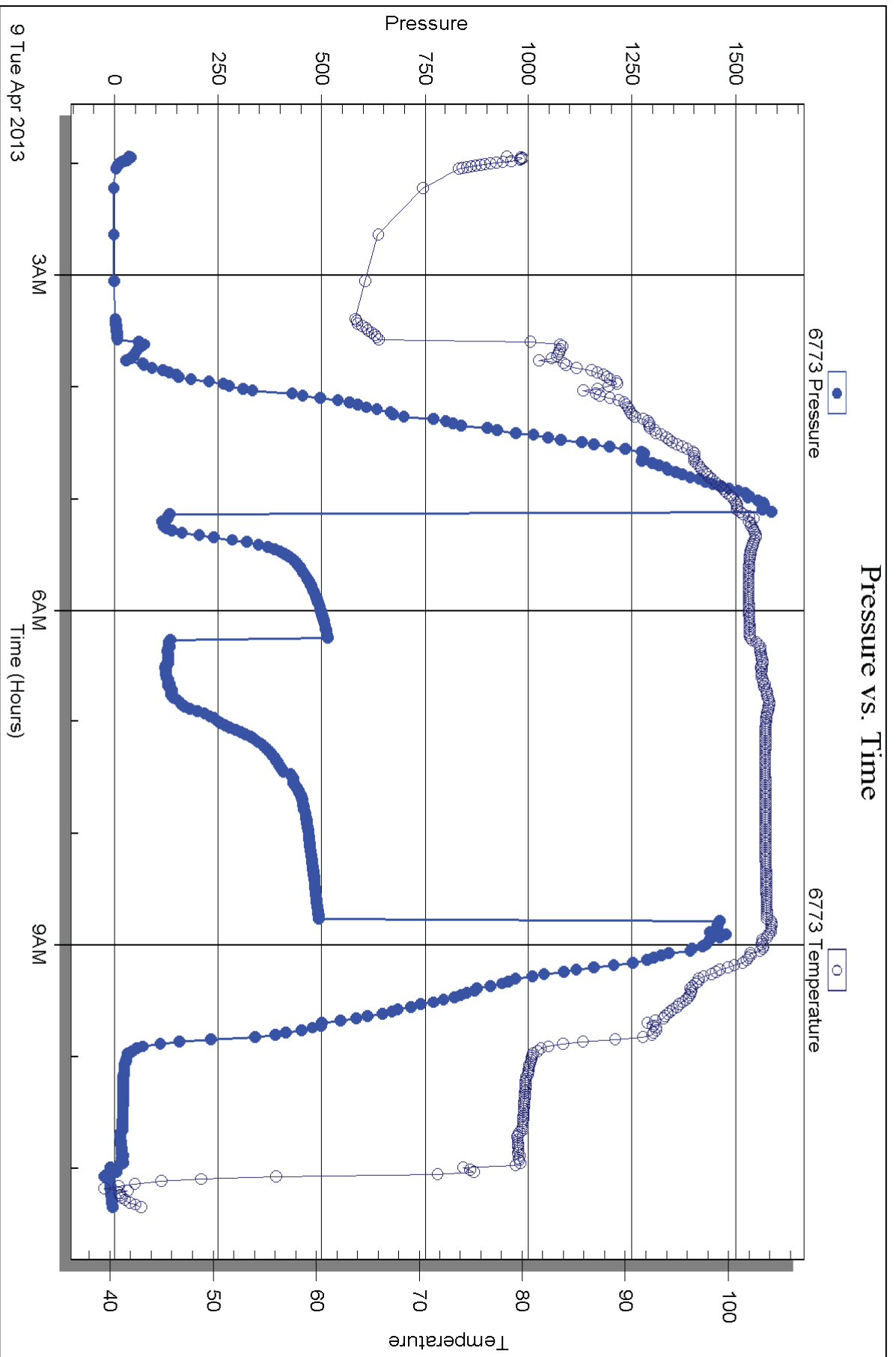
Serial #: 6773

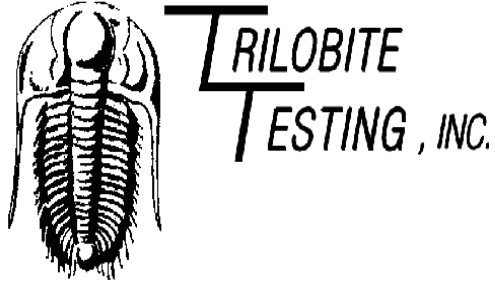
Outside

Samuel Gary Jr & Associates Inc

VP#1-30

DST Test Number: 1





DRILL STEM TEST REPORT

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

1515 Wynkoop Ste 700
Denver CO 80202

ATTN: Christopher Mitchell

VP #1-30

30-14s-17w Ellis,KS

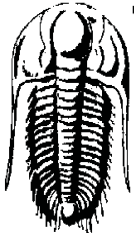
Start Date: 2013.04.10 @ 04:35:05

End Date: 2013.04.10 @ 13:42:50

Job Ticket #: 50950 DST #: 2

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

Printed: 2013.04.16 @ 13:21:56



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

30-14s-17w Ellis,KS

1515 Wynkoop Ste 700
Denver CO 80202

VP #1-30

Job Ticket: 50950

DST#: 2

ATTN: Christopher Mitchell

Test Start: 2013.04.10 @ 04:35:05

GENERAL INFORMATION:

Formation: **Lan I-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:34:05

Time Test Ended: 13:42:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Chris Staats

Unit No: 47

Interval: 3388.00 ft (KB) To 3440.00 ft (KB) (TVD)

Reference Elevations: 1946.00 ft (KB)

Total Depth: 3440.00 ft (KB) (TVD)

1941.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6755 Inside

Press@RunDepth: 65.52 psig @ 3389.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.10 End Date: 2013.04.10

Last Calib.: 2013.04.10

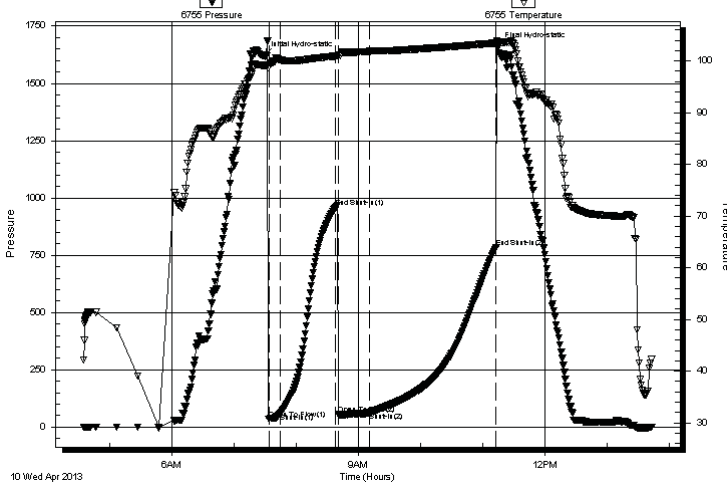
Start Time: 04:35:10 End Time: 13:42:50

Time On Btm: 2013.04.10 @ 07:29:20

Time Off Btm: 2013.04.10 @ 11:13:50

TEST COMMENT: IF: Weak blow 2"
IS: No blow back
FF: Weak blow 4"
FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1620.04	99.14	Initial Hydro-static
5	35.98	99.00	Open To Flow (1)
15	60.55	100.20	Shut-In(1)
69	960.02	100.95	End Shut-In(1)
71	55.73	100.93	Open To Flow (2)
102	65.52	101.89	Shut-In(2)
224	785.13	103.47	End Shut-In(2)
225	1660.97	103.68	Final Hydro-static

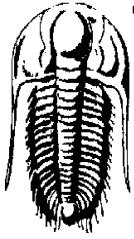
Recovery

Length (ft)	Description	Volume (bbl)
50.00	MUD	0.70

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Associates Inc

30-14s-17w Ellis,KS

1515 Wynkoop Ste 700
Denver CO 80202

VP #1-30

Job Ticket: 50950

DST#: 2

ATTN: Christopher Mitchell

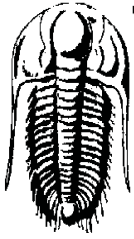
Test Start: 2013.04.10 @ 04:35:05

Tool Information

Drill Pipe:	Length: 3375.00 ft	Diameter: 3.80 inches	Volume: 47.34 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			Total Volume: 47.34 bbl	Tool Chased 2.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3388.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	4.00			3356.00	
Change Over Sub	1.00			3357.00	
Shut In Tool	5.00			3362.00	
Sampler	3.00			3365.00	
Hydraulic tool	5.00			3370.00	
Jars	5.00			3375.00	
Safety Joint	3.00			3378.00	
Packer	5.00			3383.00	36.00 Bottom Of Top Packer
Packer	5.00			3388.00	
Stubb	1.00			3389.00	
Recorder	0.00	6773	Outside	3389.00	
Recorder	0.00	6755	Inside	3389.00	
Change Over Sub	0.50			3389.50	
Drill Pipe	31.00			3420.50	
Change Over Sub	0.50			3421.00	
Perforations	16.00			3437.00	
Bullnose	3.00			3440.00	52.00 Bottom Packers & Anchor
Total Tool Length:	88.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates Inc

30-14s-17w Ellis,KS

1515 Wynkoop Ste 700
Denver CO 80202

VP #1-30

Job Ticket: 50950

DST#: 2

ATTN: Christopher Mitchell

Test Start: 2013.04.10 @ 04:35:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	MUD	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

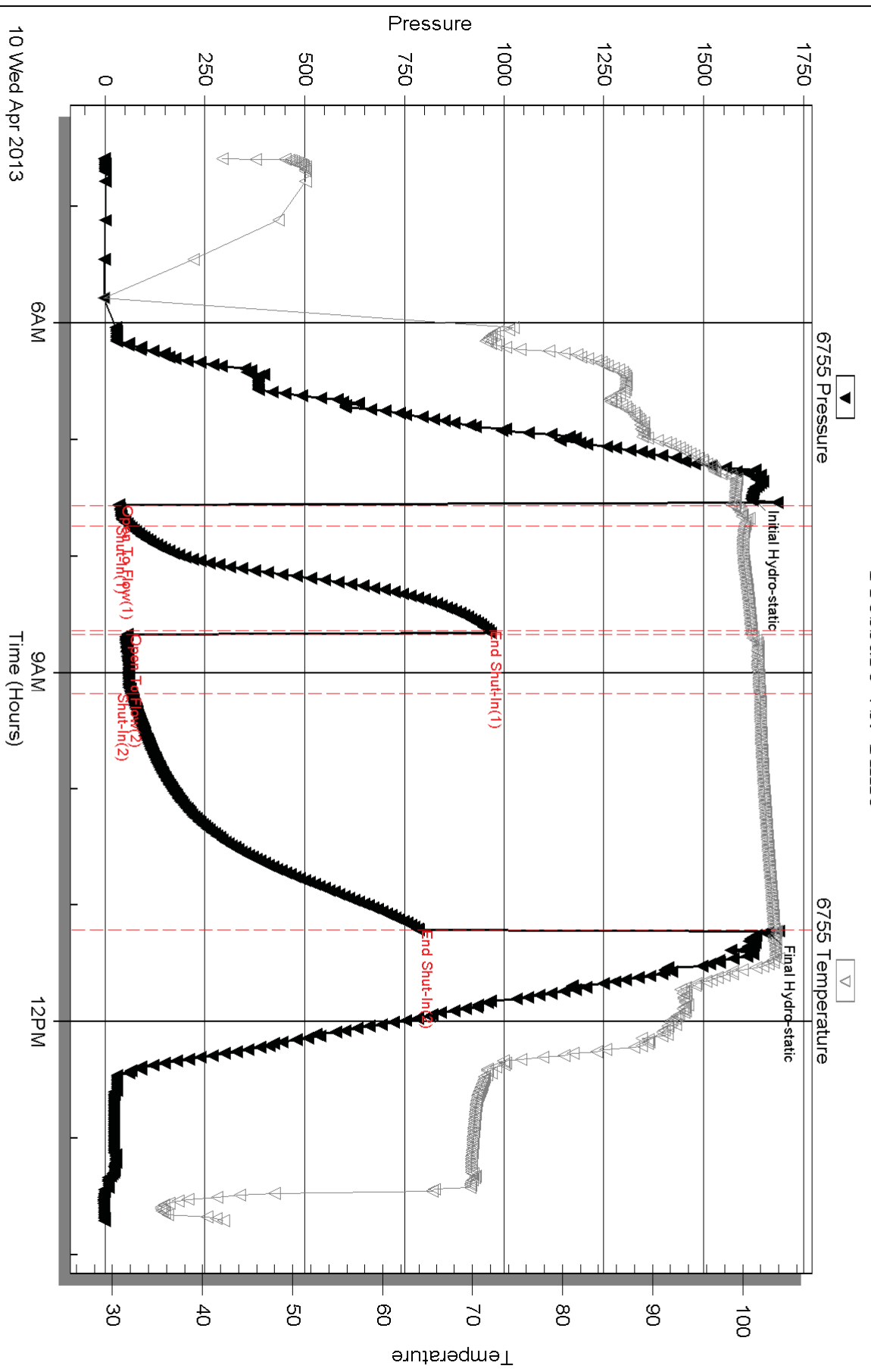
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler 100# Pressure
50 Milleters of MUD

Pressure vs. Time



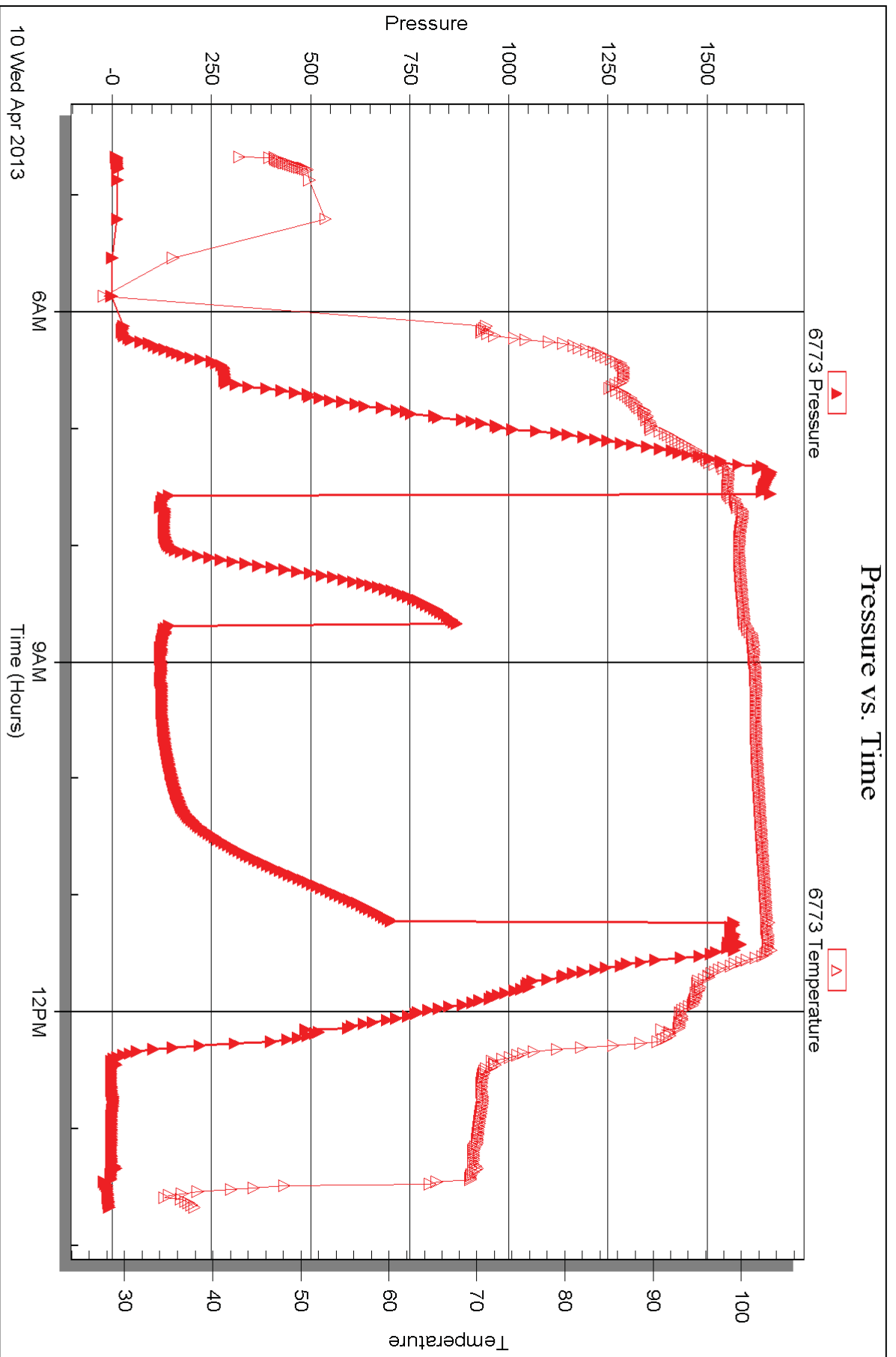
Serial #: 6773

Outside

Samuel Gary Jr & Associates Inc

VP#1-30

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50949

Well Name & No. VP #1-30 Test No. 1 Date 4-9-13
 Company Sam Gary JR & Associates INC Elevation 1946 KB 1941 GL
 Address 1515 WYN KOOP STE 700 DENVER CO 80202
 Co. Rep / Geo. Christopher Mitchell Rig Val #6
 Location: Sec. 30 Twp. 14 Rge. 17 Co. ELLIS State KS

Interval Tested 3235 - 3285 Zone Tested Lansing C, D
 Anchor Length 50' Drill Pipe Run 3220 Mud Wt. 9.0
 Top Packer Depth 3230 Drill Collars Run 0 Vis 45
 Bottom Packer Depth 3235 Wt. Pipe Run 0 WL 8.0
 Total Depth 3285 Chlorides 5200 ppm System LCM 0

Blow Description Weak blow 3 1/2"
ISI: NO blow back
FF: Fair blow 5"
F.SI NO blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>80'</u>	Feet of <u>0, W, M</u>	%gas <u>1</u>	%oil <u>39</u>	%water <u>60</u>	%mud
Rec <u>Sampler</u>	Feet of <u>200# pressure</u>	%gas	%oil	%water	%mud
Rec	Feet of <u>200 Mill OF FLUID</u>	%gas	%oil <u>40</u>	%water <u>60</u>	%mud
Rec	Feet of <u>⊙</u>	%gas	%oil	%water	%mud

Rec Total 80 BHT 100 Gravity — API RW .23 @ 41 °F Chlorides 65,000 ppm

(A) Initial Hydrostatic 1535 Test 1150 T-On Location 1:20
 (B) First Initial Flow 35 Jars 250 T-Started 1:49
 (C) First Final Flow 60 Safety Joint 75 T-Open 5:07
 (D) Initial Shut-In 563 Circ Sub T-Pulled 8:45
 (E) Second Initial Flow 50 Hourly Standby T-Out 11:10
 (F) Second Final Flow 72 Mileage ~~216 miles~~ 14rt 21.70 Comments _____
 (G) Final Shut-In 526 Sampler 250 _____
 (H) Final Hydrostatic 1550 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 5
 Initial Shut-In 60 Extra Recorder 200 Sub Total 0
 Final Flow 30 Day Standby Total 1946.70
 Final Shut-In 120 Accessibility MP/DST Disc't _____
 Sub Total 1946.70

Approved By _____ Our Representative Chris

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50950

Well Name & No. VP # 1-30 Test No. 2 Date 4-10-13
 Company Sam Gary SR & Associates INC Elevation 1946 KB 1941 GL
 Address 1515 WYN KOOP STE 700 DENVER CO 80202
 Co. Rep / Geo. Christopher Mitchell Rig Vec 1 #6
 Location: Sec. 30 Twp. 14 Rge. 17 Co. Ellis State KS

Interval Tested 3388 - 3440 Zone Tested Lan I-K
 Anchor Length 5.2' Drill Pipe Run 3375 Mud Wt. 4.0
 Top Packer Depth 3383 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 3388 Wt. Pipe Run 0 WL 8.8
 Total Depth 3440 Chlorides 8,600 ppm System LCM 0

Blow Description FP: Weak blow 2"
ISI: NO blow back
FP: Weak blow 4"
FSI: NO blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>50'</u>	Feet of <u>MUD</u>				
Rec	Feet of <u>Sampler 100# pressure</u>				
Rec	Feet of <u>50 millietous MUD</u>				
Rec	Feet of				

Rec Total 50 BHT 102 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1620 Test 1150 T-On Location 4:20
 (B) First Initial Flow 35 Jars 250 T-Started 4:35
 (C) First Final Flow 60 Safety Joint 75 T-Open 7:34
 (D) Initial Shut-In 960 Circ Sub T-Pulled 11:10
 (E) Second Initial Flow 55 Hourly Standby T-Out 13:35
 (F) Second Final Flow 65 Mileage 30 miles 21.70 Comments _____
 (G) Final Shut-In 785 Sampler 250 _____
 (H) Final Hydrostatic 1660 Straddle _____

Initial Open 10 Shale Packer _____
 Initial Shut-In 60 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 12 Day Standby _____
 Accessibility _____
 Sub Total 1746.70 MP/DST Disc't _____

Approved By _____ Our Representative Chris Stead

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

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

STRINGER

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

- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- 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

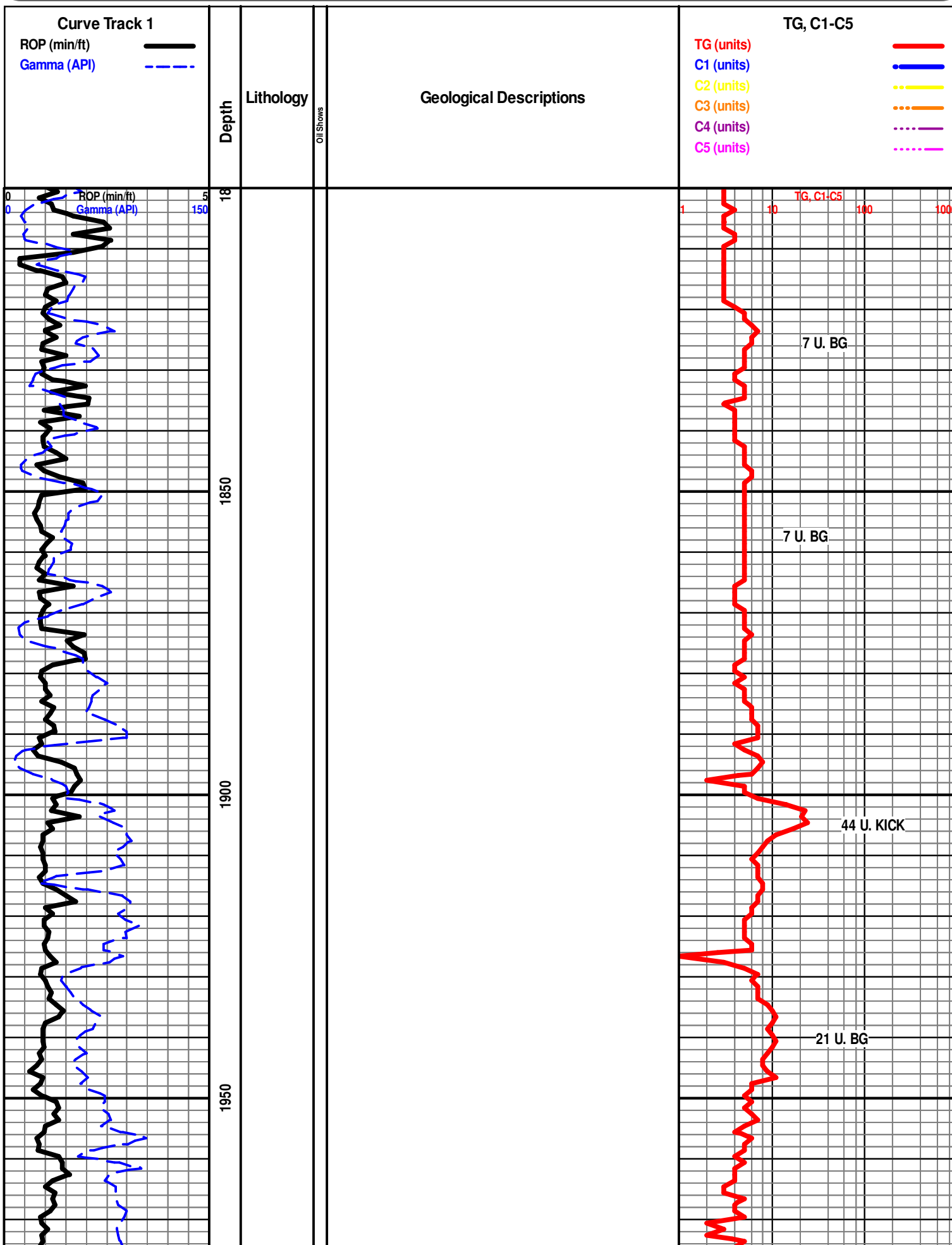
- Even
- Spotted
- Ques
- Dead
- Gas show

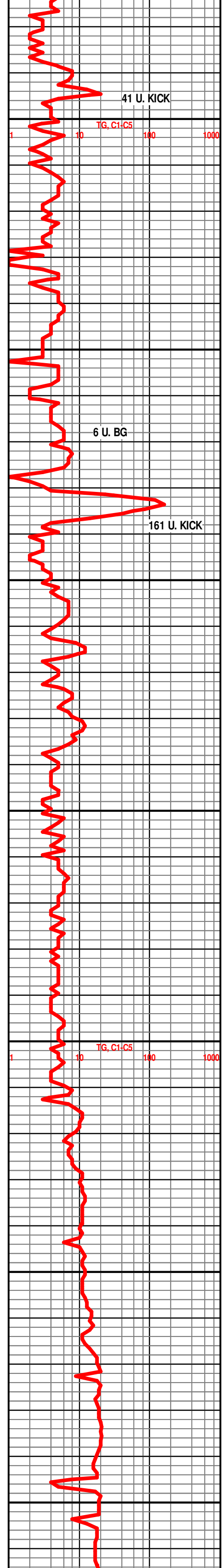
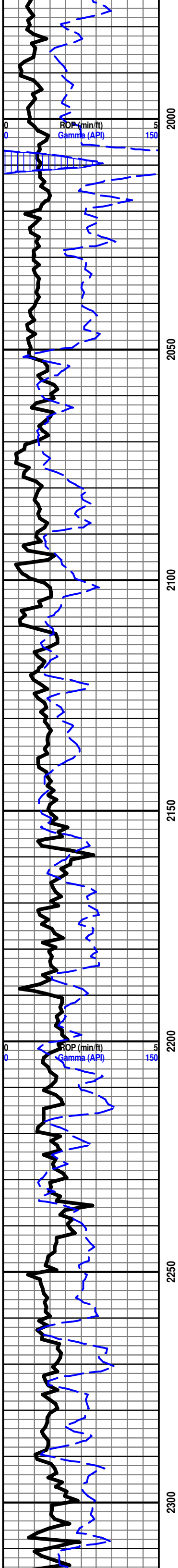
INTERVALS

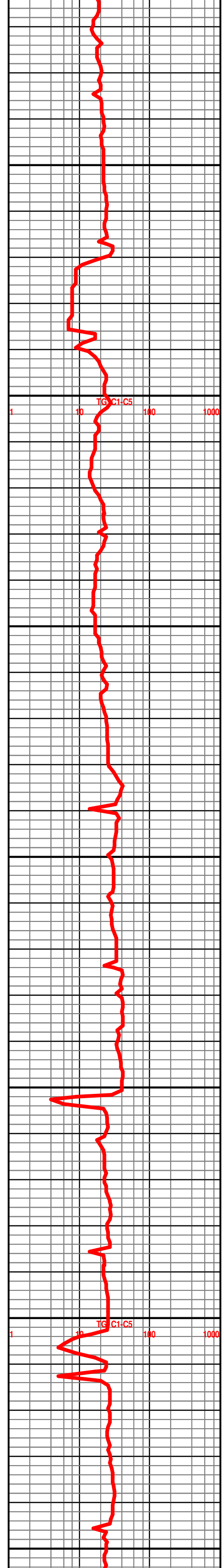
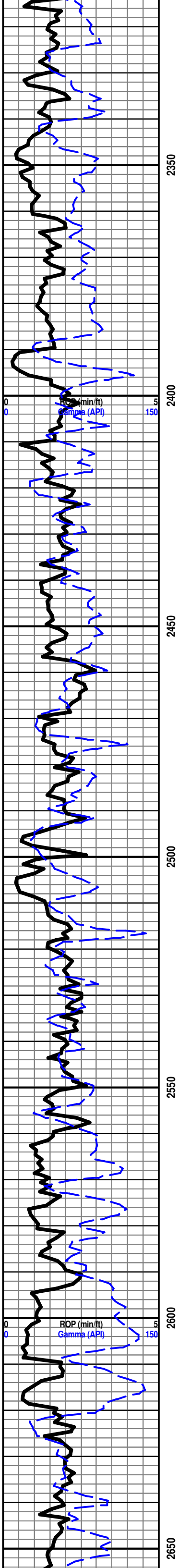
- Core
- Dst
- Dst

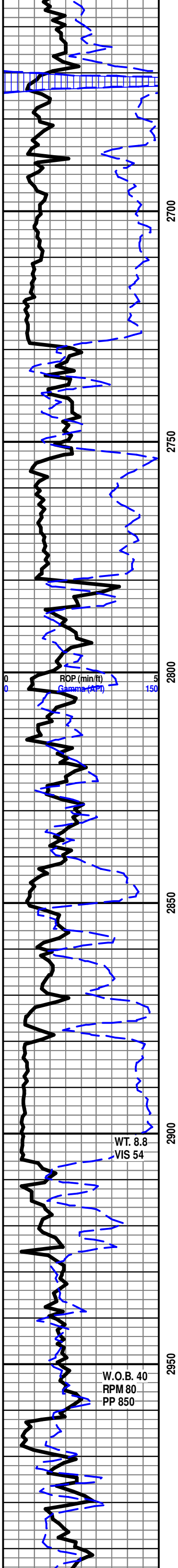
EVENTS

- Rft
- Sidewall









2700
2750
2800
2850
2900
2950

ROP (min/ft)
Gamma (API)

WT. 8.8
VIS 54

W.O.B. 40
RPM 80
PP 850

BRS 2729'-783'

START 24 HR. MANNED UNIT 4/08/13

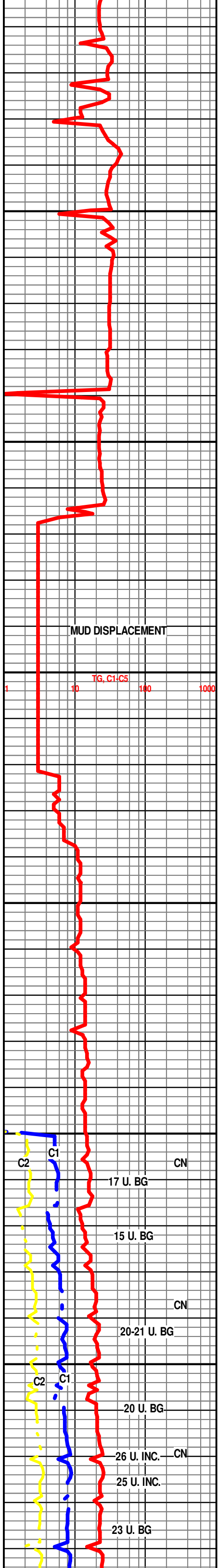
HOWARD 2906'-960'

LS- LT TN TO TN, HD DNS TO BRTT, MD/XLN, RE-XLN IP, TR S-SUCRO, IMB SM FOSS FRAGS, TR IMB GY SH IP, TR IMB SM CALC-XLS, TR SPTTD SCAT DUL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- DK TN TO BRWN, HD DNS TO TR BRTT IP, MD/F/VF-XLN MTRX, TR S-CHLKY, SCAT IMB SM TO MD CALC-XLS, FREE CALC-XLS IN TRAY, TR SFT WHT CHLK IN TRAY, V DUL YEL FLO SCAT IN 10%, NO VIS POR, NO VIS CUT OR SHOW

TOPEKA 2962'-1016'

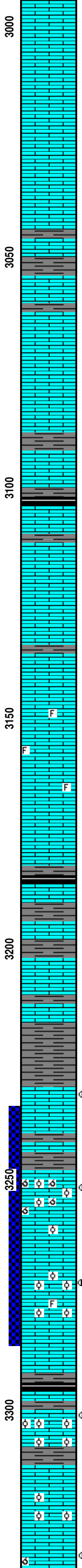
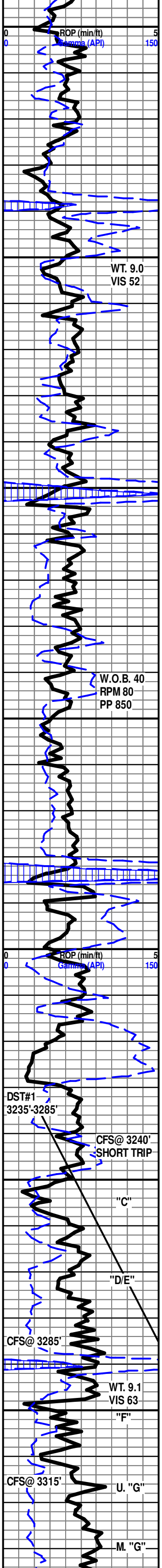
LS- LT TN TO TN, HD DNS TO V BRTT, MD/XLN, V CHLKY, S-SUCRO IP, SCAT IMB SM FOSS FRAGS, ABDT SFT WHT CHLK IN TRAY, TR SPTTD V DUL YEL FLO IP, V V PR MICRO VUG POR SCAT IN 3-4%, NO VIS CUT OR SHOW



MUD DISPLACEMENT

TG, C1-C5

C2 C1 CN
17 U. BG
15 U. BG
20-21 U. BG
CN
C2 C1
20 U. BG
26 U. INC. CN
25 U. INC.
23 U. BG



LS- CRM TO LT TN TO TN, HD DNS TO BR TT, MD/F-XLN, RE-XLN IP, S-CHLKY, SCAT IMB SM CALC-XLS, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN IP, HD DNS TO TR BR TT, F/VF-XLN MTRX, SLI TR S-CHLKY, IMB CALC-XLS IP, TR V DUL YEL FLO IN 5%, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BR TT, MD-XLN MTRX, F-XLN IP, TR S-SUCRO, IMB FOSS FRAGS, DUL YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

LE COMPTON 3063'-1117'

LS- OFF WHT TO CRM, V HD DNS TO SLI TR BR TT IP, F/VF-XLN MTRX, SLI TR SCAT SFT WHT CHLK IN TRAY, V DUL YEL FLO IN 40%, TR SPTTD YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

SH- BLCK SFT CARB

LS- CRM TO LT TN, HD DNS TO BR TT IP, MD/F/VF-XLN MTRX, IMB CALC-XLS IP, SLI TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO CRM LT TN IP, HD DNS TO BR TT, MD/F-XLN MTRX, S-SUCRO, TR S-CHLKY, SCAT IMB FOSS FRAGS, SLI TR IMB CALC-XLS IP, SLI TR FREE FOSSIL IN TRAY, DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

HEEBNER 3183'-1237'

SH- BLK SFT CARB

LS- LT TN W/ LT GY IP, HD DNS TO TR BR TT IP, F/VF-XLN MTRX, SLI TR S-CHLKY, TR IMB CALC-XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

DOUGLAS 3216'-1270'

SH- LT GY TO LT GRN IP MOTT, FRM TO SFT GMMY IP, BLCKY SMTH TXT

LANSING 3230'-1284'

3230'-3232' LS- CRM TO LT TN (W/ LT TN TO TN OIL STN SCAT IN 30%), HD DNS TO TR BR TT IP, F/VF-XLN MTRX, S-SCURO, V SLI TR S-CHLKY IP, SCAT IMB CALC-XLS IP, V SLI TR PYR IN TRAY, DUL YEL GLS FLO IN 50%, YEL GLD FLO IN 10%, SPTTD BR T YEL GLD FLO IN 10%, PR TO FR VUG POR IN 1-2%, PR INTER-XLN POR IP, WK FLSH CUT IN 30%, WK HAZY SLW STRM IN 30%, NO VIS LCH ON DSH, V LT OIL ODOR

LANSING "C" 3249'-1303'

3252'-3257' LS- CRM TO LT TN (W/ TN TO DK TN OIL STN IN 40%), HD DNS TO V BR TT, RE-XLN SUCRO MTRX, SM IMB OOLITES SCAT THRU, OOLMODLIC, DUL YEL GLD FLO IN 30%, YEL GLD FLO IN 10%, PR TO FR TO GD OOLMODLIC POR IN 4%, FR VUG POR IN 2%, PR TO TR FR MICRO VUG POR IN 1%, PR TO FR WK FLSH CUT IN 40%, FR SLW STRM IN 40%, LT TN LCH ON DSH, FR TO GD OIL ODOR

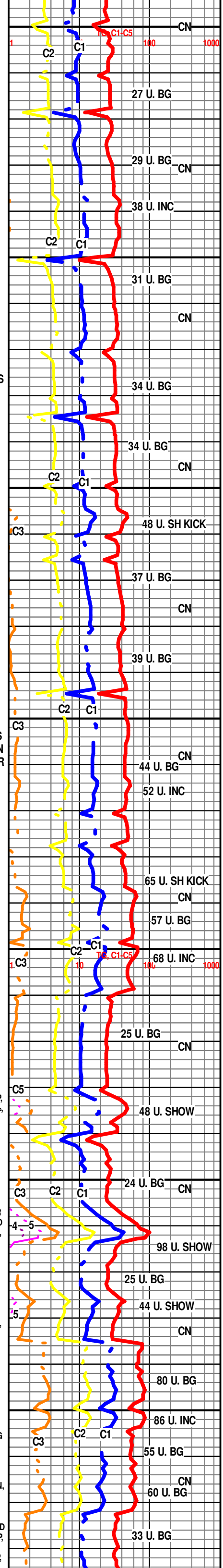
3271'-3274' LS- LT TN TO TN (W/ DK TN OIL STN IN 50% & LIVE OIL STN IN 10%), V HD DNS TO TR BR TT IP, MD/F-XLN MTRX, RE-XLN S-SUCRO, TR S-CHLKY IP, IMB SM TO MD OOLITES THRU, TR IMB FOSS FRAGS IP, YEL GLD FLO IN 40%, DUL YEL GLD FLO IN 20%, FR VUG POR SCAT IN 2%, TR INTER-OOLITIC POR IP, POSS FRACT POR, GD FLSH CUT IN 80%, V GD SLW STRM IN 80%, DK BRWN LCH ON DSH, GD OIL ODOR

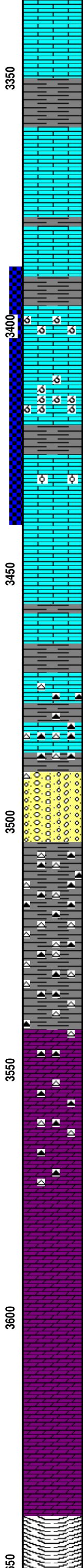
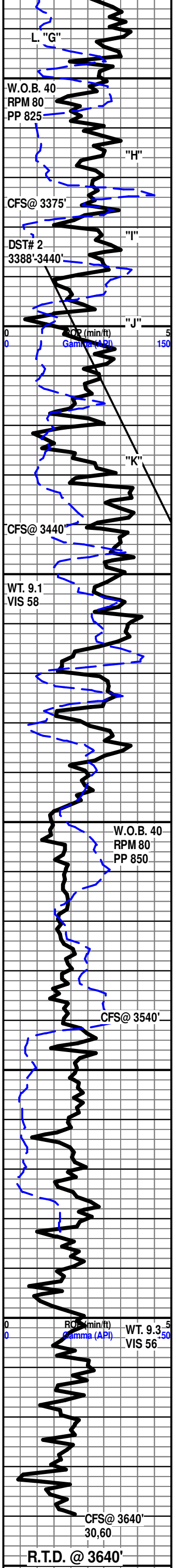
LANSING "F" 3300'-1354'

3301'-3304' LS- CRM TO LT TN (W/ LT TN OIL STN SCAT IN 30%), HD DNS TO BR TT, MD-XLN, RE-XLN, S-CHLKY, ABDT IMB SM TO MD OOLITES THRU, V-OOLITIC, TR SFT WHT CHLK IN TRAY, SLI TR PYR, V DUL YEL GLD FLO IN 10%, FR TO TR GD VUG POR IN 5%, FR MICRO VUG POR IP, FR FLSH CUT IN 40%, GD SLW STRM IN 40%, TN LCH ON DSH, WK OIL ODOR

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

3331'-3334' LS- OFF WHT TO CRM (LT TN TO TN OIL STN IN 30-40%), HD DNS TO BR TT IP, MD/F-XLN MTRX, S-CHLKY, S-SUCRO IP, OOLMODLIC IP, TR SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 30%, YEL GLD FLO IN 10%, PR TO FR TO GD VUG POR SCAT IN 6%, TR PR OOLMODLIC POR IP, GD FLSH CUT IN 60%, GD SLW STRM IN 60%, TN LCH ON DSH, FR OIL





ODOR

LS- OFF WHT TO CRM LT TN IP, V HD DNS TO SLI TR BRTT IP, F/VF-XLN MTRX, S-CHLKY IP, SLI TR PYR IN TRAY, V DUL YEL FLO IN 10%, DUL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LANSING "H" 3362'-1416'

LS- CRM TO LT TN, V HD DNS, F/VF-XLN MTRX, TR RE-XLN IP, SCAT IMB SM TO MD CALC-XLS, V DUL YEL FLO IN 70%, TR YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO CRM, V HD DNS, F/VF-XLN, CRYPTO-XLN IP, SCAT WHT CHRT IP, IMB SM CALC-XLS IP, DUL YEL FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

3397'-3400' LS- DK TN TO BRWN (DUE TO OIL STN IN 90%) (LIVE OIL STN IN 10%, HD DNS TO V BRTT, RE-XLN, TT SUCRO MTRX, OOLMOLDIC, SLI TR IMB PYR IP, DUL YEL GLD FLO IN 20%, TR SPTTD BRT YEL GLD FLO IN 10%, PR TO FR TO TR GD OOLMOLDIC POR IN 6%, FR VUG POR IN 3%, EXCEL FLSH CUT IN 100%, EXCEL SLW STRM IN 100%, DK BRWN LCH ON DSH, V STRNG OIL ODOR

3415'-3418' LS- CRM TO LT TN (DUE TO OIL STN IN 10-150%) HD DNS TO BRTT, RE-XLN, SUCRO MTRX, V OOLMOLDIC THRU, YEL GLD FLO IN 30%, DUL YEL GLD FLO IN 10%, FR TO TR GD OOLMOLDIC POR IN 7%, GD VUG POR IP, NO FLSH CUT, V WK SLW STRM IN 10%, NO VIS LCH ON DSH, NO OIL ODOR

3430'-3432' LS- OFF WHT TO CRM (W/ DK TN TO BRWN OIL STN IN 50%) (LIVE OIL STN IN 20%), HD DNS TO BRTT IP, MD/F-XLN, RE-XLN IP, S-SUCRO THRU, IMB SM OOLITES, YEL GLD FLO IN 20%, SCAT SPTTD BRT YEL GLD FLO IN 20%, PR TO FR VUG POR IN 4%, SCAT MICRO VUG POR IP, POSS FRACT POR, GD FLSH CUT IN 80%, GD SLW STRM IN 80%, BRWN LCH ON DSH, GD OIL ODOR

LS- CRM TO LT TN, HD DNS, F/VF/CRYPTO-XLN MTRX, SLI TR S-CHLKY IP, SCAT IMB SM CALC-XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GY TO DK GY, FRM TO SFT IP, SPLNTY SMTH TXT

BKC 3477'-1531'

SH- GY TO GRN MOTT PRP IP, FRM TO SFT, BLCKY SMTH TXT, SCAT WHT & ORANGE CHRT THRU

CONG- LM-W/ ABDT RD PRP GRN SH & ABDT MOTT CHRT THRU

SH- RD TO DK RD, FRM SFT TO V GMMY THRU, ABDT MOTT CHRTS THRU

SH- RD, GRN, PRP IP MOTT, SFT TO V GMMY THRU, ABDT WHT PNK YEL MOTT CHRT THRU

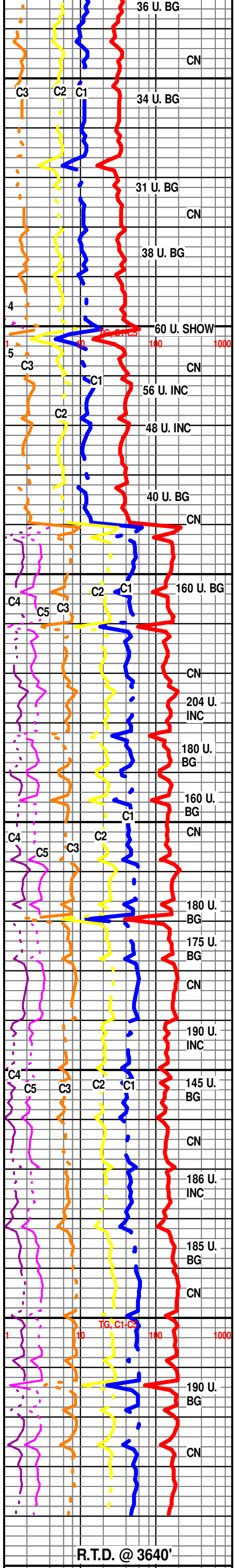
ARBUCKLE 3542'-1596'

DOLO- OFF WHT TO CRM IP, HD DNS TO TR BRTT IP, MD/XLN, RE-XLN MTRX, TR S-CHLKY, ABDT IMB SM TO MD S-RND DOLO GRNS THRU, SCAT MOTT CHRT THRU, SLI TR SFT WHT IN TRAY, DUL YEL MIN FLO IN 40%, NO VIS POR, NO VIS CUT OR SHOW

DOLO- OFF WHT TO CRM, HD DNS TO BRTT IP, MD/F-XLN, RE-XLN MTRX, ABDT IMB SM TO S-ANG TO RND DOLO GRNS THRU, YEL MIN FLO IN 20%, DUL YEL MIN FLO IN 10%, PR TO FR INTER-GRN POR IN 3%, NO VIS CUT OR SHOW

DOLO- WHT TO OFF WHT, HD DNS TO BRTT IP, MD-XLN, RE-XLN MTRX, S-CHLKY, ABDT IMB SM S-ANG DOLO GRNS THRU, TR IMB V SM RND CLR QRTZ GRNS IP, DU YEL FLO IN 40%, NO VIS POR, NO VIS CUT OR SHOW

DOLO- WHT TO OFF WHT TO CRM, HD DNS TO BRTT, MD/XLN, RE-XLN, S-CHLKY, ABDT IMB SM TO MD S-ANG TO RND DOLO GRNS THRU, SCAT IMB SM RND CLR QRTZ GRNS IP, DUL YEL FLO IN 30%, YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW



R.T.D. @ 3640'

C.T.C.H. 1.5 HRS

R.T.D. @ 2:15 A.M. 4/11/13

DROP SURVEY

T.O.F.L @ 3:45 A.M.

WEATHERFORD/ LIBERAL, KANSAS

R.T.D. @ 3640'

SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EART TECH

