



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1107411
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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



1107411

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

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

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

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

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

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

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	WAHL TRUST 1-32
Doc ID	1107411

All Electric Logs Run

DENSITY-NEUTRON
INDUCTION
MICRO
SONIC
SPECTRAL GR

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



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

January 10, 2013

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

Re: ACO1
API 15-167-23825-00-00
WAHL TRUST 1-32
NW/4 Sec.32-14S-15W
Russell County, Kansas

Dear Production Department:

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

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

Respectfully,
CHRISTOPHER MITCHELL



QUALITY OILWELL CEMENTING, INC.

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

Date: 9/30/2012
 Invoice # 6547

P.O.#:

Due Date: 10/30/2012

Division: Russell

Invoice

Contact:

Samuel Gary Jr & Associates Inc

Address/Job Location:

Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

Reference:

WAHL TRUST 1-32

Description of Work:

LONG SURFACE JOB

RECEIVED

OCT 09 2012

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

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
Approval	LB
Description	

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No	Baffle Plate Aluminum, 8 5/8"	1	\$95.00	Yes
Common-Class A	350	\$ 4,632.83	Yes				
Bulk Truck Matl-Material Service Charge	390	\$ 823.33	No				
8 5/8" Basket	2	\$ 667.11	Yes				
Calcium Chloride	13	\$ 654.00	Yes				
Flo Seal	87	\$ 183.67	Yes				
Pump Truck Mileage-Job to Nearest Camp	18	\$ 189.62	No				
8 5/8" Centralizer	2	\$ 135.11	Yes				
Premium Gel (Bentonite)	7	\$ 120.29	Yes				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	18	\$ 110.96	No				

Invoice Terms:

Net 30

	SubTotal:	\$ 8,687.67
	Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:	\$ (1,303.15)
<hr/>		
	SubTotal for Taxable Items:	\$ 5,609.92
	SubTotal for Non-Taxable Items:	\$ 1,774.60
<hr/>		
	Total:	\$ 7,384.52
	Tax:	\$ 465.62
<hr/>		
	Amount Due:	\$ 7,850.14
	Applied Payments:	
	Balance Due:	\$ 7,850.14

8.30% Russell County Sales Tax

Thank You For Your Business!

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

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

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 6547

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-26-12	32	H	15	Russell	KS		2:30pm

Location *Con lam 5 top of Hill E into*

Lease	Well No.	Owner	
<i>Wahl Trust</i>	<i>1-32</i>	To Quality Oilwell Cementing, Inc.	
Contractor	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Type Job			
Hole Size	T.D.	Charge To	
<i>17 1/4</i>	<i>726</i>	<i>Sam Gary Jr & Assoc.</i>	
Csg.	Depth	Street	
<i>8 5/8</i>	<i>726</i>		
Tbg. Size	Depth	City	
		State	
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered	
41.72	4235 <i>41.72</i>	<i>350.0m 3 1/4 2 1/4 1 1/4</i>	
Meas Line	Displace		
<i>41.72</i>	<i>43 1/2 BC</i>		

EQUIPMENT

Pumptrk	No.	Cementer	
<i>5</i>		<i>Ev's</i>	
Bulktrk	No.	Helper	
		<i>Cozy</i>	
Bulktrk	No.	Driver	
<i>4</i>		<i>Doug</i>	

Common	<i>350</i>
Poz. Mix	
Gel.	<i>7</i>
Calcium	<i>13</i>

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

8 5/8 on bottom Bt. Circulation

Mix 350SK & Displace. Plug.

Salt

Flowseal *87#*

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling *390*

Mileage

FLOAT EQUIPMENT

Cement Circulated!

Plug landed @ 800ft

Guide Shoe	<i>8 5/8</i>
Centralizer	<i>32</i>
Baskets	<i>2</i>
AFU Inserts	<i>Rubber Plug</i>
Float Shoe	
Latch Down	<i>1 Baffle plate</i>

Pumptrk Charge *Long Surface*

Mileage *18*

Pumptrk Charge *Long Surface*

Mileage *18*

X Signature *Steve White*

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: 9/30/2012
 Invoice # 6013

P.O.#:
 Due Date: 10/30/2012
 Division: Russell

Invoice

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

Reference:
 WAHL TRUST 1-32

Description of Work:
 PLUG JOB

RECEIVED

OCT 09 2012

SAMUEL GARY JR.
 & ASSOCIATES, INC.

DRLG COMP W/O LOE GG

Account	8200.145
Well/Prospect	
Deck	
AFE	
Approval	RB
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	Yes				
Common-Class A	123	\$ 1,874.63	Yes				
Bulk Truck Matl-Material Service Charge	212	\$ 460.34	Yes				
POZ Mix-Standard	82	\$ 409.53	Yes				
Pump Truck Mileage-Job to Nearest Camp	18	\$ 195.04	Yes				
Premium Gel (Bentonite)	7	\$ 123.73	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	18	\$ 114.13	Yes				
Flo Seal	50	\$ 108.57	Yes				
Dry Hole Plug	1	\$ 60.80	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,138.16
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (620.72)

SubTotal for Taxable Items:	\$ 3,517.43
SubTotal for Non-Taxable Items:	\$ -
Total:	\$ 3,517.43
Tax:	\$ 291.95

8.30% Russell County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,809.38
Applied Payments:
Balance Due: \$ 3,809.38

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. 6013

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-28-12	32	14	15	RUSSELL	KANSAS		6:15 AM

Location **GORHAM 4S - E/INTD**

Lease	Well No.	Owner
WAHL-TRUST	1-32	SAM GARY
Contractor	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Type Job		
Hole Size	T.D.	Charge To
7 7/8"	3550	SAM GARY
Csg.	Depth	Street
4 1/2"		1515 WYNKOOP, STE 700
Tbg. Size	Depth	City
		DENVER
Tool	Depth	State
		CO, 80202
Cement Left in Csg.	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
		Cement Amount Ordered
		205 ^{60%} 40 202-48% 4 FLO

Meas Line	Displace
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EQUIPMENT		Common
Pumptrk #5	No. Cementer	123
	Helper	
Bulktrk #10	No. Driver	Poz. Mix
	Driver	82
Bulktrk #11	No. Driver	Gel.
	Driver	7
	Driver	Calcium
	Driver	

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole 30 SKS	Salt
Mouse Hole 15 SKS	Flowseal 50ft
Centralizers	Kol-Seal 5
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
1st @ 3425'	Sand
2nd @ 960'	Handling 212
3rd @ 775'	Mileage
4th @ 40'	
RH	
MH	

FLOAT EQUIPMENT

25 SKS	Guide Shoe
25 SKS	Centralizer
100 SKS	Baskets
10 SKS	AFU Inserts
30 SKS	Float Shoe
15 SKS	Latch Down
205 SKS	

Pumptrk Charge	plug
Mileage	19

THANK YOU!	Tax
<i>Gene With</i>	Discount
X Signature	Total Charge



DRILL STEM TEST REPORT

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

1515 Wynkoop Suite 700
Denver CO 80202

ATTN: Chris Mitchel

Wahl Trust #1-32

32-14s-15w Russell,KS

Start Date: 2012.09.24 @ 08:59:50

End Date: 2012.09.24 @ 16:54:50

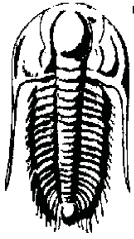
Job Ticket #: 47871 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.01 @ 14:37:18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

32-14s-15w Russell,KS

1515 Wynkoop Suite 700
Denver CO 80202

Wahl Trust #1-32

Job Ticket: 47871

DST#: 1

ATTN: Chris Mitchel

Test Start: 2012.09.24 @ 08:59:50

GENERAL INFORMATION:

Formation: **Plattsmouth**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 10:44:05

Time Test Ended: 16:54:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

Interval: 3000.00 ft (KB) To 3040.00 ft (KB) (TVD)

Reference Elevations: 1885.00 ft (KB)

Total Depth: 3040.00 ft (KB) (TVD)

1877.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8366

Inside

Press@RunDepth: 120.82 psig @ 3037.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.24

End Date:

2012.09.24

Last Calib.:

2012.09.24

Start Time: 08:59:52

End Time:

16:54:50

Time On Btm:

2012.09.24 @ 10:43:35

Time Off Btm:

2012.09.24 @ 14:24:35

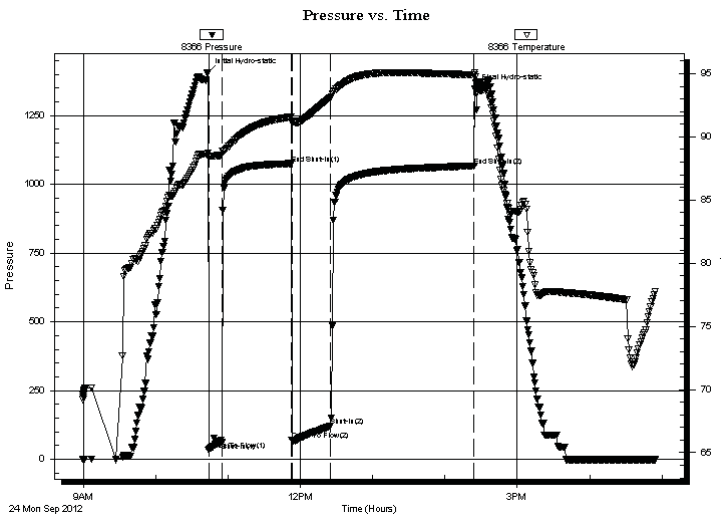
TEST COMMENT: IFP-Fair Blow , Built to 8"

ISI-Dead

FFP-Good Blow , BOB in 17 Min.

FSI-Dead

PRESSURE SUMMARY



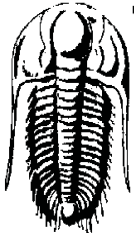
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1406.57	88.70	Initial Hydro-static
1	34.43	88.37	Open To Flow (1)
12	61.37	88.56	Shut-In(1)
69	1075.37	91.57	End Shut-In(1)
70	70.93	91.13	Open To Flow (2)
102	120.82	93.10	Shut-In(2)
221	1067.08	94.91	End Shut-In(2)
221	1346.91	95.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Muddy Water W/Oil Scum	1.41
90.00	Frothy OCWM-30%O-10%W-60%M	1.26
0.00	210' Gas In Pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates
1515 Wynkoop Suite 700
Denver CO 80202
ATTN: Chris Mitchel

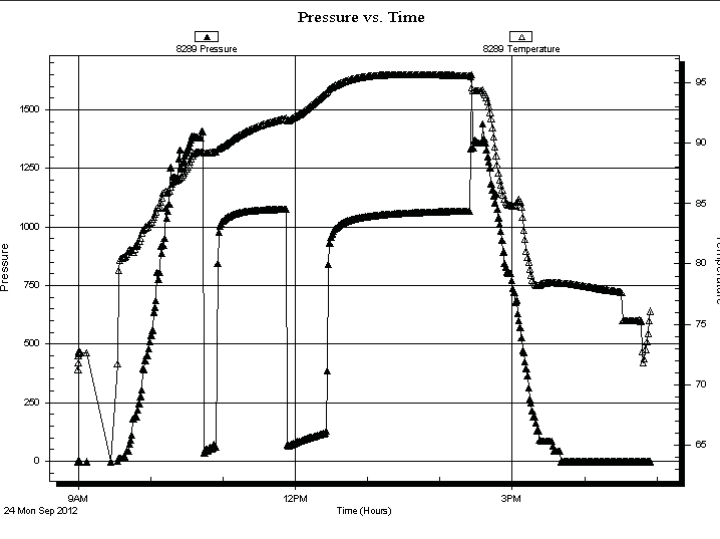
32-14s-15w Russell, KS
Wahl Trust #1-32
Job Ticket: 47871 **DST#: 1**
Test Start: 2012.09.24 @ 08:59:50

GENERAL INFORMATION:

Formation: Platts mouth	
Deviated: No Whipstock: 0.00 ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 10:44:05	Tester: Jason McLemore
Time Test Ended: 16:54:50	Unit No: 54
Interval: 3000.00 ft (KB) To 3040.00 ft (KB) (TVD)	Reference Elevations: 1885.00 ft (KB)
Total Depth: 3040.00 ft (KB) (TVD)	1877.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good	KB to GR/CF: 8.00 ft

Serial #: 8289	Fluid		
Press@RunDepth: psig @ 2965.00 ft (KB)		Capacity: 8000.00 psig	
Start Date: 2012.09.24 End Date: 2012.09.24		Last Calib.: 2012.09.24	
Start Time: 08:59:50 End Time: 16:55:03		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IFP-Fair Blow , Built to 8"
ISI-Dead
FFP-Good Blow , BOB in 17 Min.
FSI-Dead



PRESSURE SUMMARY

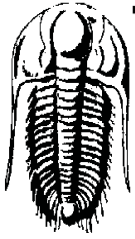
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Muddy Water W/Oil Scum	1.41
90.00	Frothy OCWM-30%O-10%W-60%M	1.26
0.00	210' Gas In Pipe	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates
 1515 Wynkoop Suite 700
 Denver CO 80202
 ATTN: Chris Mitchel

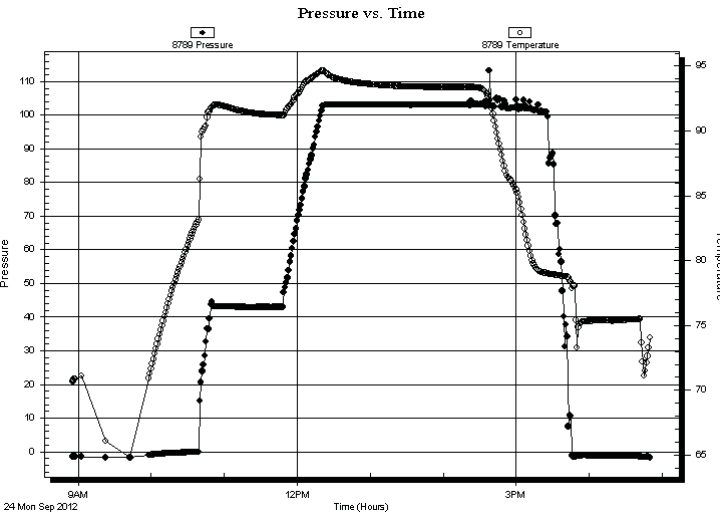
32-14s-15w Russell,KS
Wahl Trust #1-32
 Job Ticket: 47871 **DST#: 1**
 Test Start: 2012.09.24 @ 08:59:50

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Time Test Ended: 16:54:50	Unit No: 54	
Interval: 3000.00 ft (KB) To 3040.00 ft (KB) (TVD)	Reference Elevations: 1885.00 ft (KB)	
Total Depth: 3040.00 ft (KB) (TVD)	1877.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 8.00 ft

Serial #: 8789	Outside				
Press@RunDepth: psig @ 3037.00 ft (KB)	Capacity: 8000.00 psig				
Start Date: 2012.09.24	End Date: 2012.09.24	Last Calib.: 2012.09.24			
Start Time: 08:55:45	End Time: 16:50:28	Time On Btm:			
		Time Off Btm:			

TEST COMMENT: IFP-Fair Blow , Built to 8"
 ISI-Dead
 FFP-Good Blow , BOB in 17 Min.
 FSI-Dead



PRESSURE SUMMARY

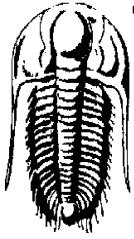
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Muddy Water W/Oil Scum	1.41
90.00	Frothy OCWM-30%O-10%W-60%M	1.26
0.00	210' Gas In Pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates

32-14s-15w Russell, KS

1515 Wynkoop Suite 700
Denver CO 80202

Wahl Trust #1-32

Job Ticket: 47871

DST#: 1

ATTN: Chris Mitchel

Test Start: 2012.09.24 @ 08:59:50

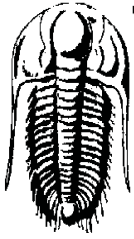
Tool Information

Drill Pipe:	Length: 2939.00 ft	Diameter: 3.80 inches	Volume: 41.23 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 41.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3000.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8289	Fluid	2965.00	
Change Over Sub	5.00			2970.00	
Shut In Tool	5.00			2975.00	
Sampler	3.00			2978.00	
Hydraulic tool	5.00			2983.00	
Jars	5.00			2988.00	
Safety Joint	2.00			2990.00	
Packer	5.00			2995.00	35.00 Bottom Of Top Packer
Packer	5.00			3000.00	
Stubb	1.00			3001.00	
Perforations	3.00			3004.00	
Change Over Sub	1.00			3005.00	
Blank Spacing	31.00			3036.00	
Change Over Sub	1.00			3037.00	
Recorder	0.00	8366	Inside	3037.00	
Recorder	0.00	8789	Outside	3037.00	
Bullnose	3.00			3040.00	40.00 Bottom Packers & Anchor
Total Tool Length:	75.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

32-14s-15w Russell,KS

1515 Wynkoop Suite 700
Denver CO 80202

Wahl Trust #1-32

Job Ticket: 47871

DST#: 1

ATTN: Chris Mitchel

Test Start: 2012.09.24 @ 08:59:50

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:

38000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Muddy Water W/Oil Scum	1.410
90.00	Frothy OCWM-30%O-10%W-60%M	1.262
0.00	210' Gas In Pipe	0.000

Total Length: 210.00 ft Total Volume: 2.672 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-125#,4000ml Salt Water

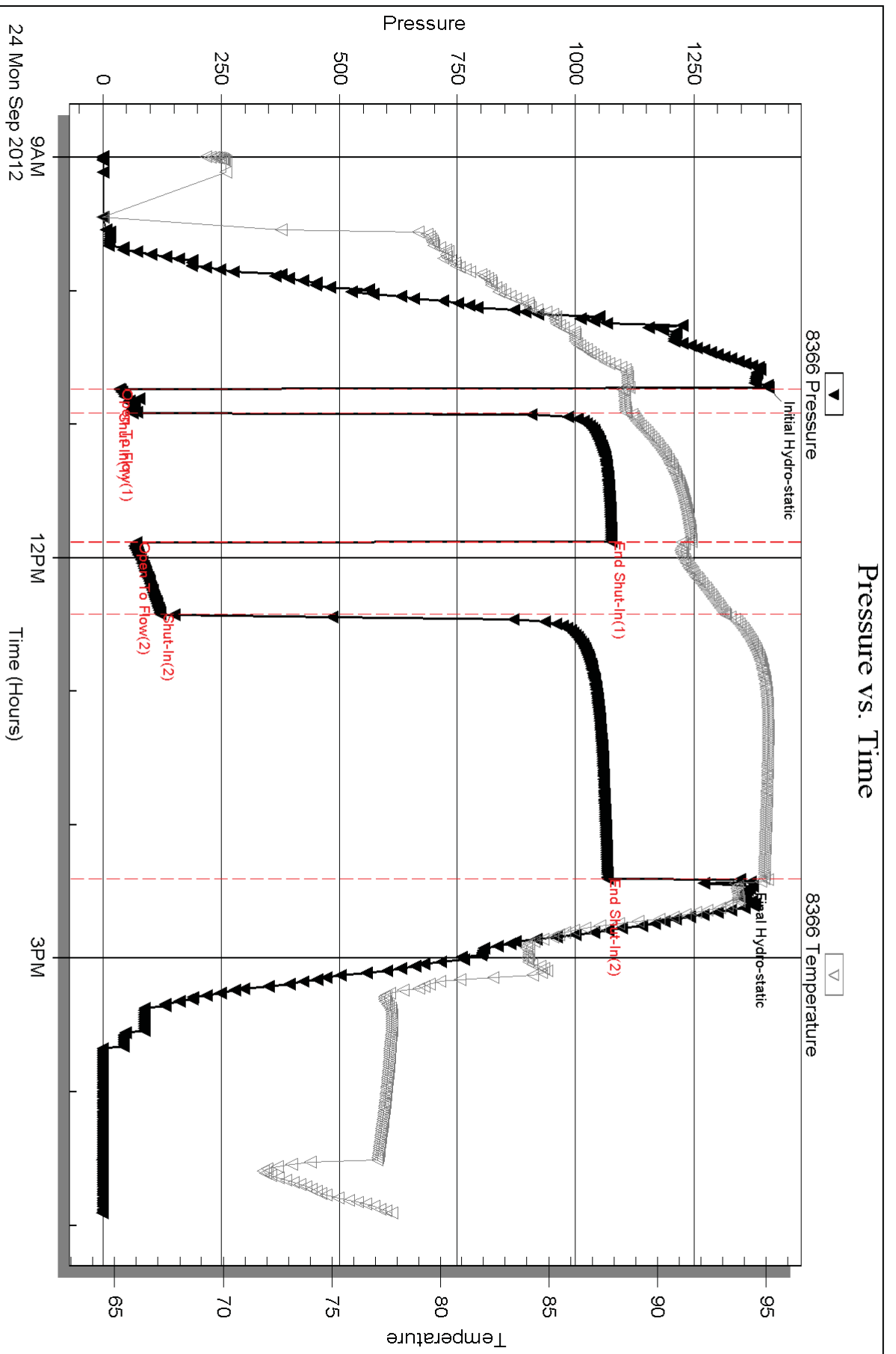
Serial #: 8366

Inside

Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 1



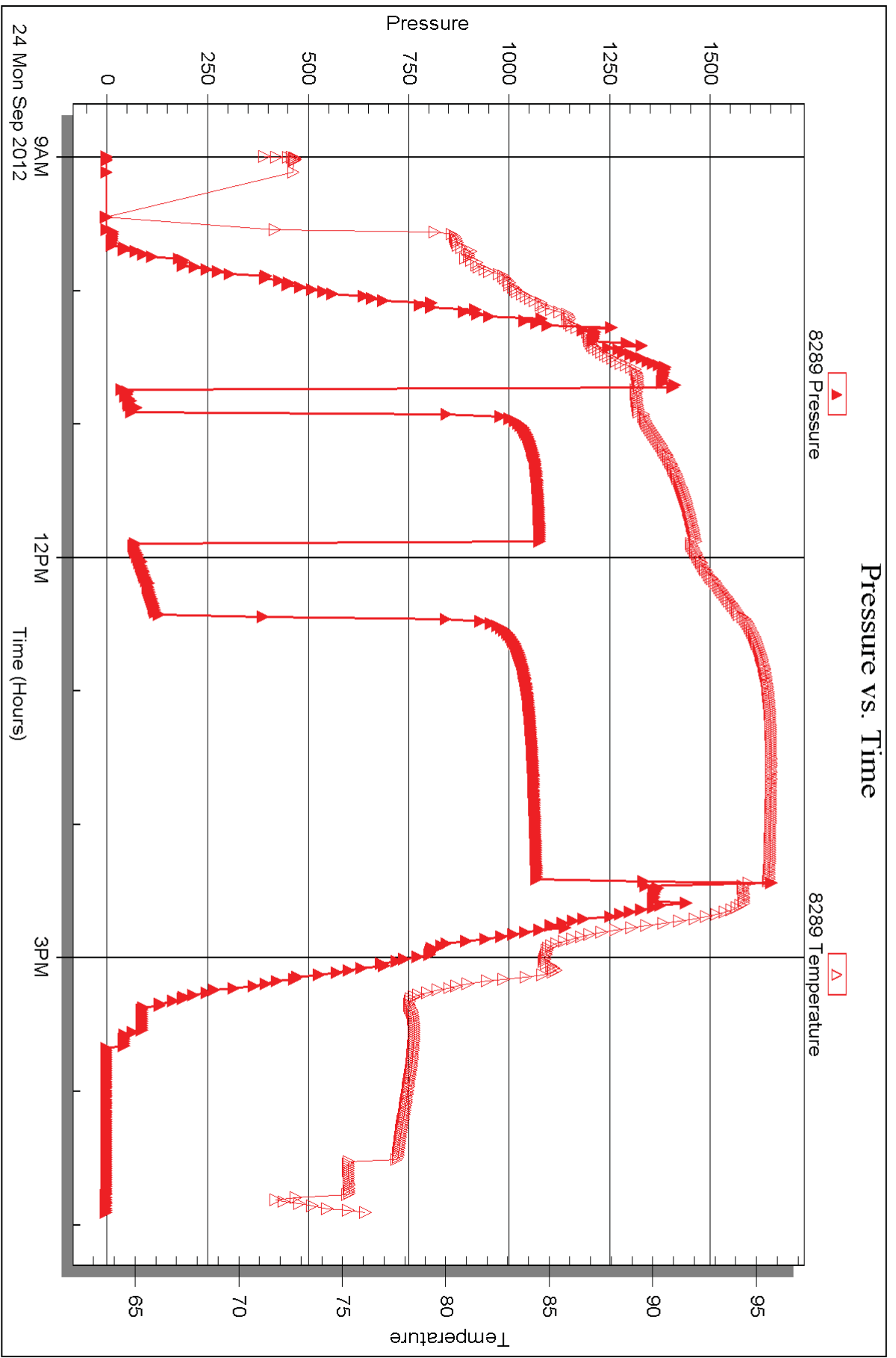
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Fluid

Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 1

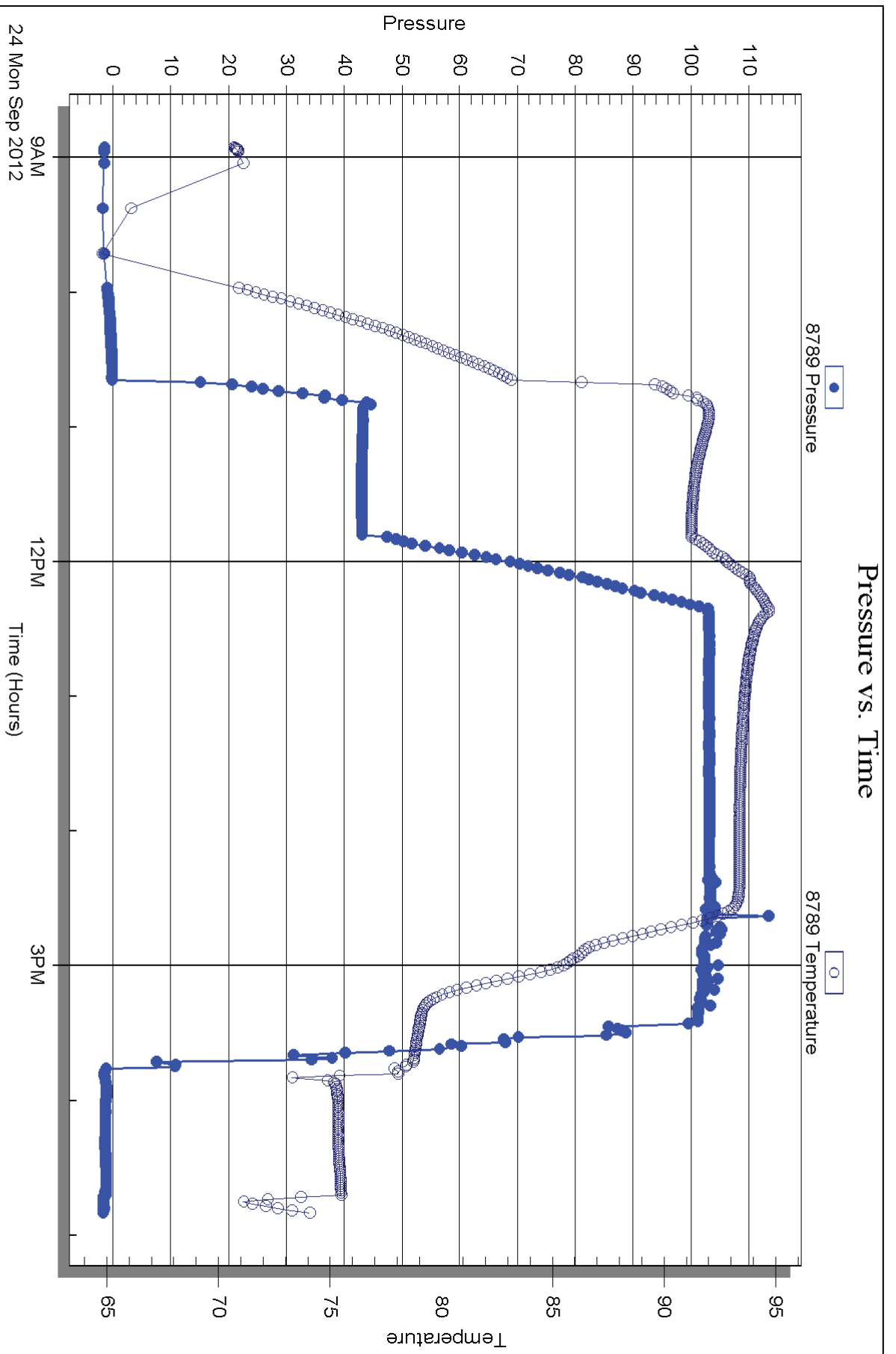


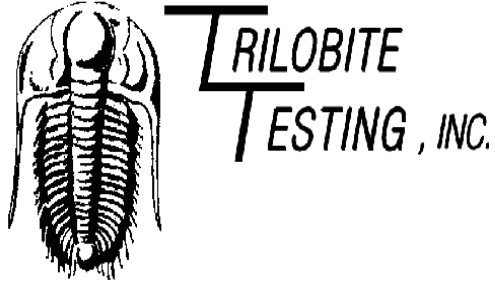
Serial #: 8789

Outside Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 1





DRILL STEM TEST REPORT

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

1515 Wynkoop Suite 700
Denver CO 80202

ATTN: Chris Mitchel

Wahl Trust #1-32

32-14s-15w Russell,KS

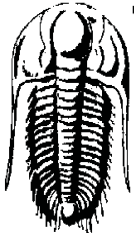
Start Date: 2012.09.25 @ 03:09:21

End Date: 2012.09.25 @ 11:21:21

Job Ticket #: 47872 DST #: 2

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

Printed: 2012.10.01 @ 14:36:00



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

32-14s-15w Russell, KS

1515 Wynkoop Suite 700
Denver CO 80202

Wahl Trust #1-32

Job Ticket: 47872

DST#: 2

ATTN: Chris Mitchel

Test Start: 2012.09.25 @ 03:09:21

GENERAL INFORMATION:

Formation: **Toronto-A**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 05:03:06

Time Test Ended: 11:21:21

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3054.00 ft (KB) To 3119.00 ft (KB) (TVD)

Reference Elevations: 1885.00 ft (KB)

Total Depth: 3119.00 ft (KB) (TVD)

1877.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8366

Inside

Press@RunDepth: 336.11 psig @ 3091.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.25

End Date:

2012.09.25

Last Calib.:

2012.09.25

Start Time: 03:09:23

End Time:

11:21:21

Time On Btm:

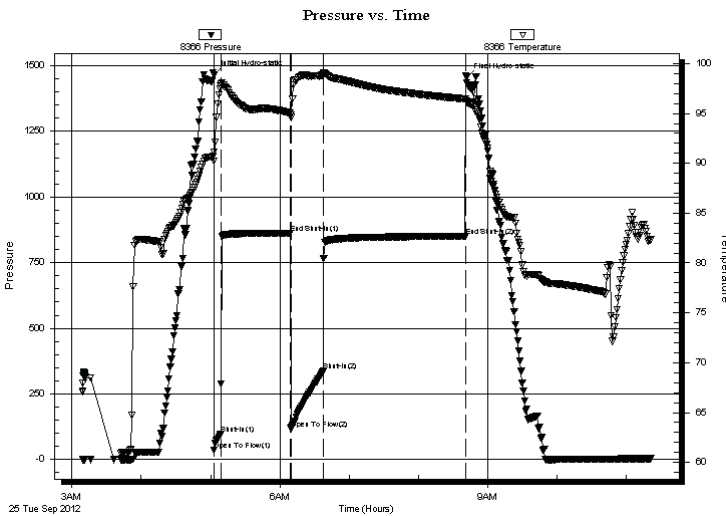
2012.09.25 @ 05:02:51

Time Off Btm:

2012.09.25 @ 08:41:36

TEST COMMENT: 5 Min. IFP- Strong, BOB in 4 Min.
60 Min. ISI-Surface Blow back for 5 Min
30 Min. FFP-Strong, BOB in 5 Min.
120 Min. FSI-Blow back Built to 1"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1463.85	91.12	Initial Hydro-static
1	36.20	90.22	Open To Flow (1)
6	98.04	97.71	Shut-In(1)
67	862.50	95.06	End Shut-In(1)
67	117.83	94.61	Open To Flow (2)
95	336.11	98.84	Shut-In(2)
218	850.77	96.46	End Shut-In(2)
219	1455.78	96.29	Final Hydro-static

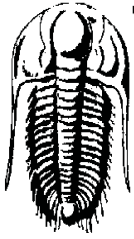
Recovery

Length (ft)	Description	Volume (bbl)
810.00	Muddy Water W/Oil Scum	11.09
0.00	210' Gas In Pipe	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates
 1515 Wynkoop Suite 700
 Denver CO 80202
 ATTN: Chris Mitchel

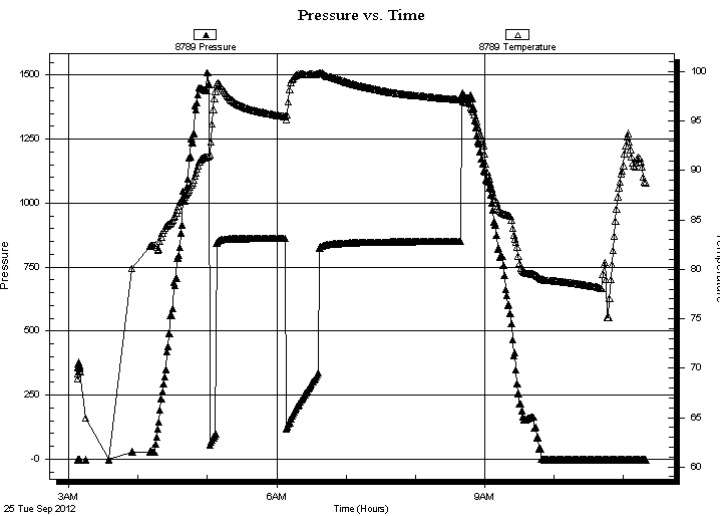
32-14s-15w Russell, KS
Wahl Trust #1-32
 Job Ticket: 47872 **DST#: 2**
 Test Start: 2012.09.25 @ 03:09:21

GENERAL INFORMATION:

Formation: Toronto-A	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: 0.00 ft (KB)	Tester: Jason McLemore
Time Tool Opened: 05:03:06	Unit No: 54
Time Test Ended: 11:21:21	Reference Elevations: 1885.00 ft (KB)
Interval: 3054.00 ft (KB) To 3119.00 ft (KB) (TVD)	1877.00 ft (CF)
Total Depth: 3119.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Good

Serial #: 8789	Outside	Capacity: 8000.00 psig
Press@RunDepth: psig @ 3091.00 ft (KB)	Start Date: 2012.09.25	Last Calib.: 2012.09.25
Start Time: 03:07:47	End Date: 2012.09.25	Time On Btm:
End Time: 11:19:30	Time Off Btm:	

TEST COMMENT: 5 Min. IFP- Strong, BOB in 4 Min.
 60 Min. ISI-Surface Blow back for 5 Min
 30 Min. FFP-Strong, BOB in 5 Min.
 120 Min. FSI-Blow back Built to 1"



PRESSURE SUMMARY

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

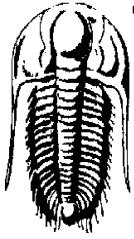
Recovery

Length (ft)	Description	Volume (bbl)
810.00	Muddy Water W/Oil Scum	11.09
0.00	210' Gas In Pipe	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. & Associates

32-14s-15w Russell, KS1515 Wynkoop Suite 700
Denver CO 80202**Wahl Trust #1-32**

Job Ticket: 47872

DST#: 2

ATTN: Chris Mitchel

Test Start: 2012.09.25 @ 03:09:21

GENERAL INFORMATION:

Formation: **Toronto-A**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 05:03:06

Time Test Ended: 11:21:21

Interval: 3054.00 ft (KB) To 3119.00 ft (KB) (TVD)

Total Depth: 3119.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Reference Elevations: 1885.00 ft (KB)

1877.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8289

Fluid

Press@RunDepth: psig @ 3019.00 ft (KB)

Start Date: 2012.09.25

End Date:

Start Time: 03:05:11

End Time:

2012.09.25

11:16:39

Capacity: 8000.00 psig

Last Calib.:

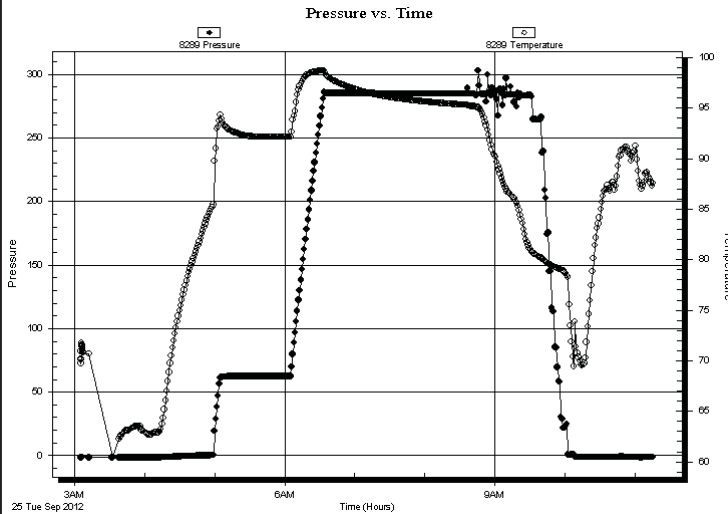
2012.09.25

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 Min. IFP- Strong, BOB in 4 Min.
 60 Min. ISI-Surface Blow back for 5 Min
 30 Min. FFP-Strong, BOB in 5 Min.
 120 Min. FSI-Blow back Built to 1"

PRESSURE SUMMARY



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

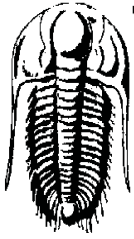
Recovery

Length (ft)	Description	Volume (bbl)
810.00	Muddy Water W/Oil Scum	11.09
0.00	210' Gas In Pipe	0.00

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

32-14s-15w Russell, KS

1515 Wynkoop Suite 700
Denver CO 80202

Wahl Trust #1-32

Job Ticket: 47872

DST#: 2

ATTN: Chris Mitchel

Test Start: 2012.09.25 @ 03:09:21

Tool Information

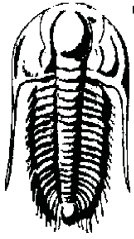
Drill Pipe:	Length: 3003.00 ft	Diameter: 3.80 inches	Volume: 42.12 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 42.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3054.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	100.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8289	Fluid	3019.00	
Change Over Sub	5.00			3024.00	
Shut In Tool	5.00			3029.00	
Sampler	3.00			3032.00	
Hydraulic tool	5.00			3037.00	
Jars	5.00			3042.00	
Safety Joint	2.00			3044.00	
Packer	5.00			3049.00	35.00 Bottom Of Top Packer
Packer	5.00			3054.00	
Stubb	1.00			3055.00	
Perforations	3.00			3058.00	
Change Over Sub	1.00			3059.00	
Blank Spacing	31.00			3090.00	
Change Over Sub	1.00			3091.00	
Recorder	0.00	8366	Inside	3091.00	
Recorder	0.00	8789	Outside	3091.00	
Perforations	25.00			3116.00	
Bullnose	3.00			3119.00	65.00 Bottom Packers & Anchor

Total Tool Length: 100.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

32-14s-15w Russell,KS

1515 Wynkoop Suite 700
Denver CO 80202

Wahl Trust #1-32

Job Ticket: 47872

DST#: 2

ATTN: Chris Mitchel

Test Start: 2012.09.25 @ 03:09:21

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:

43000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
810.00	Muddy Water W/Oil Scum	11.089
0.00	210' Gas In Pipe	0.000

Total Length: 810.00 ft Total Volume: 11.089 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-150#, 4000ml Salt Water

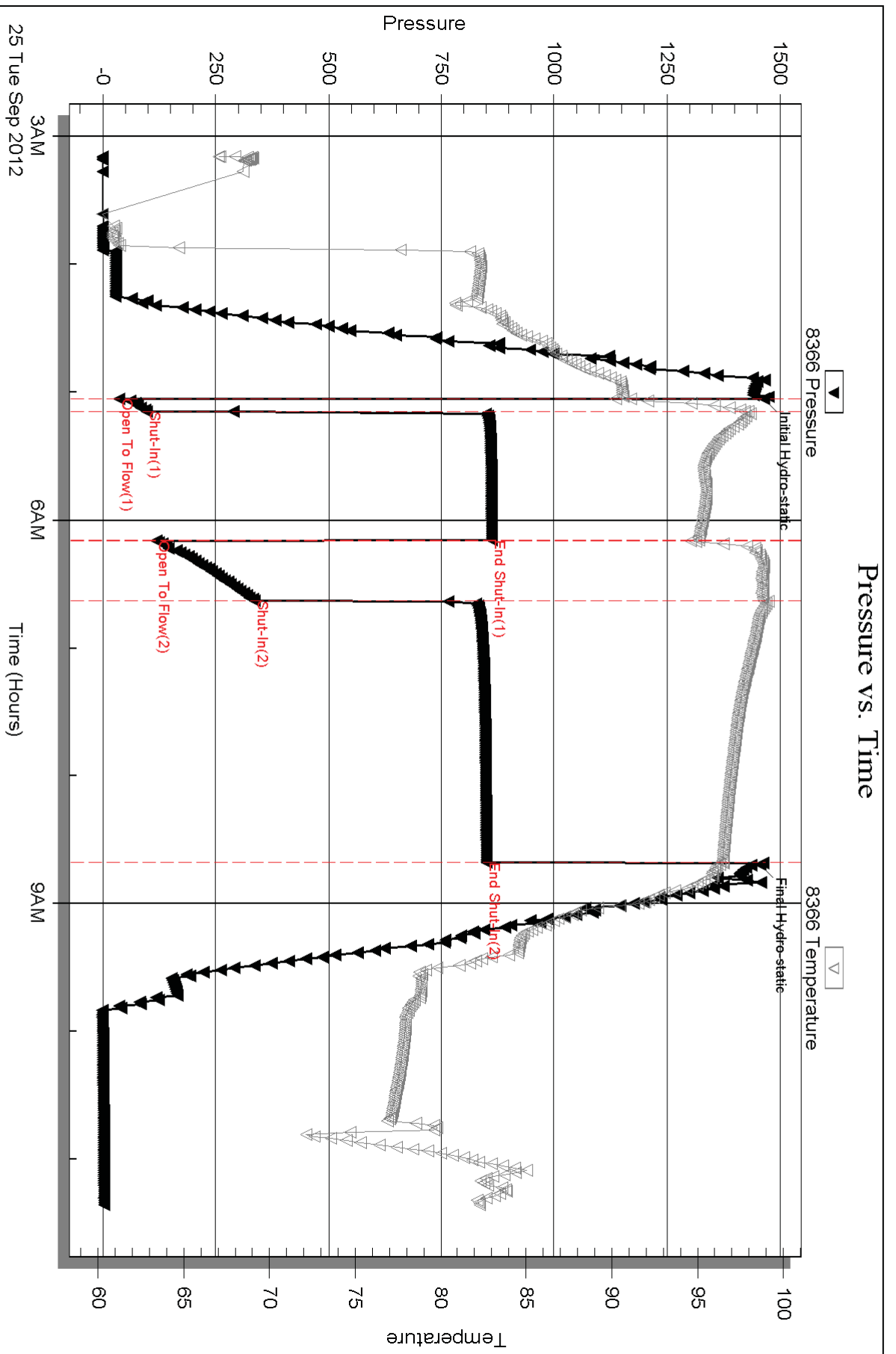
Serial #: 8366

Inside

Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 2

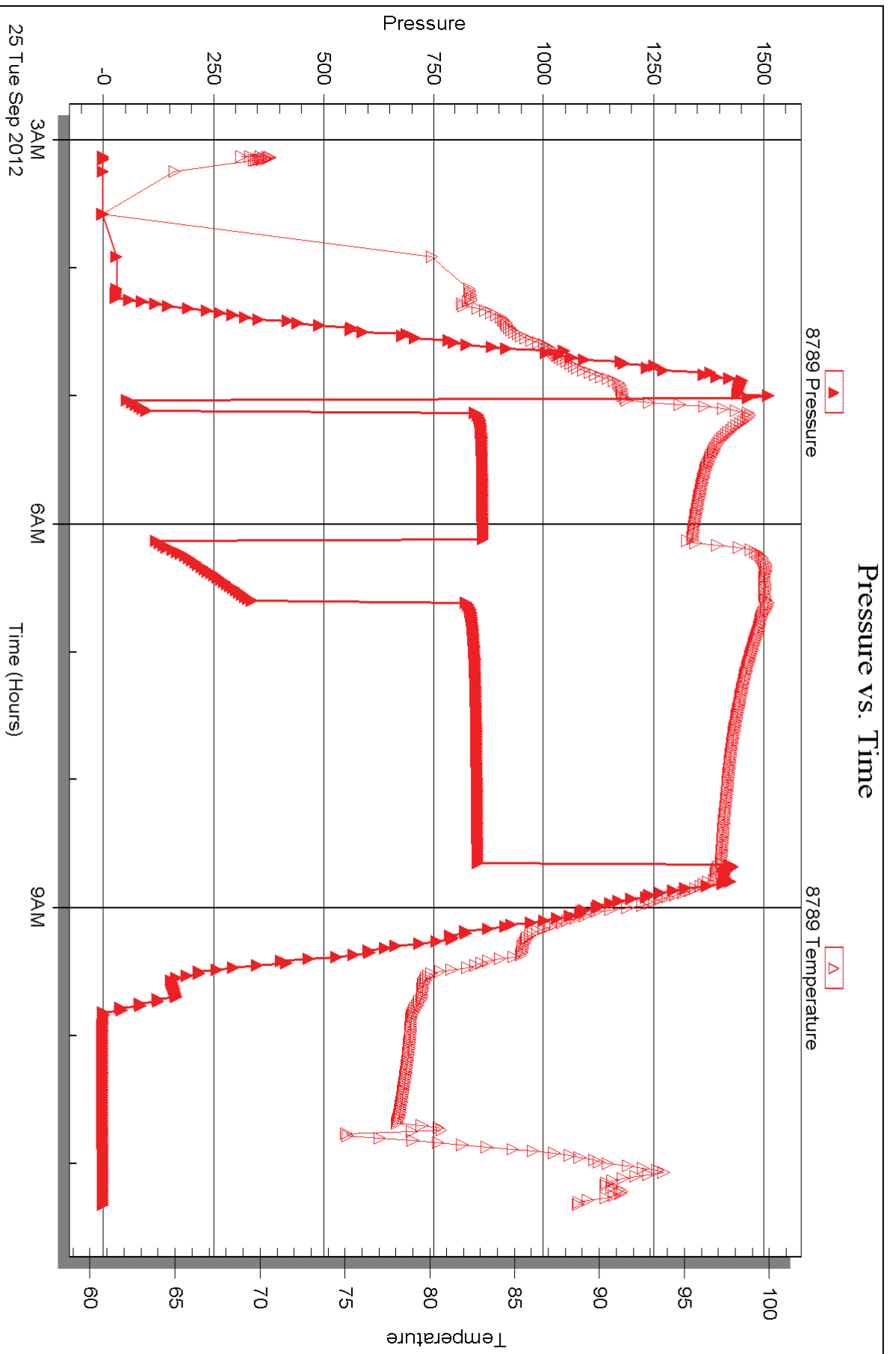


Serial #: 8789

Outside Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 2



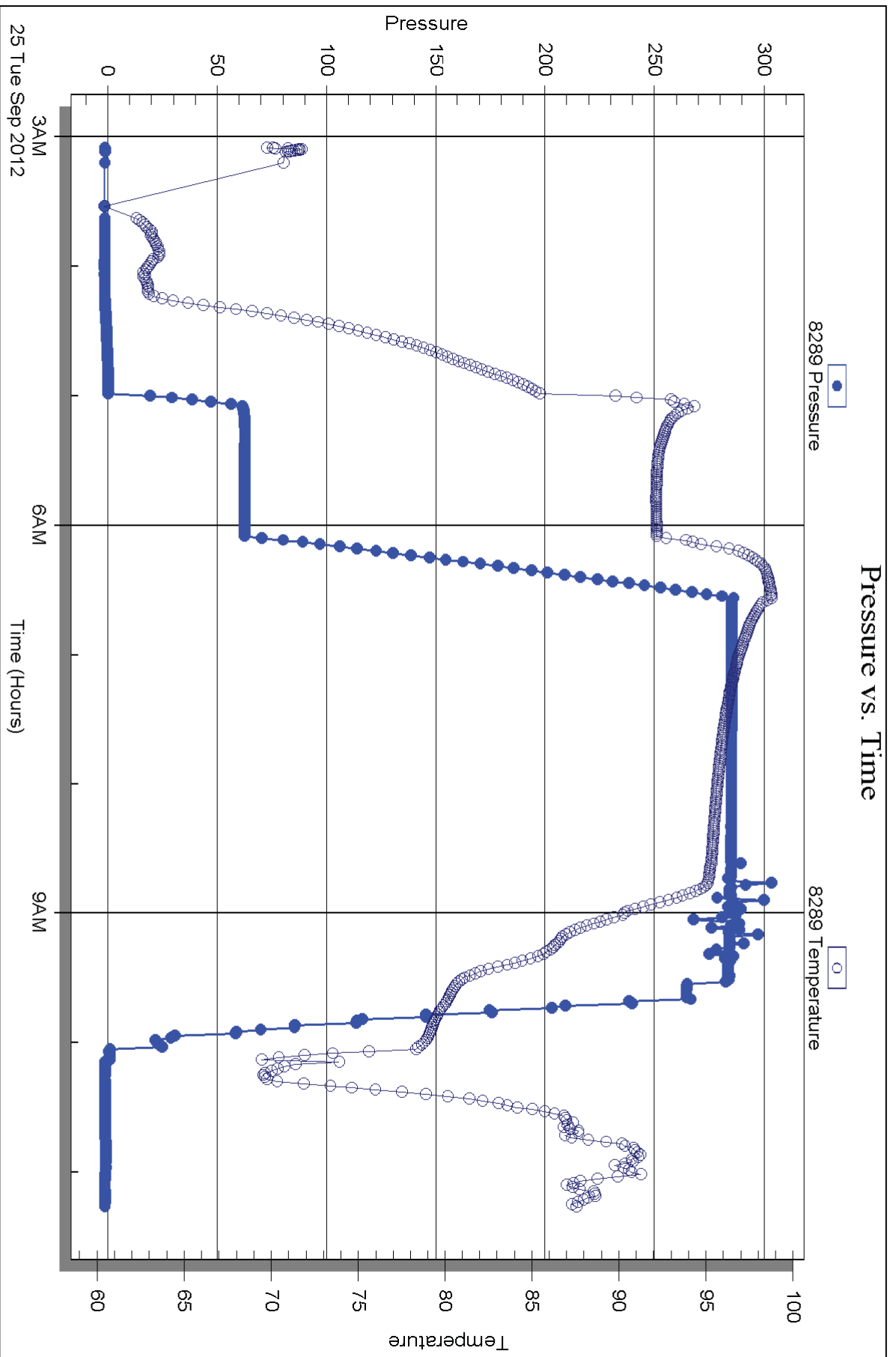
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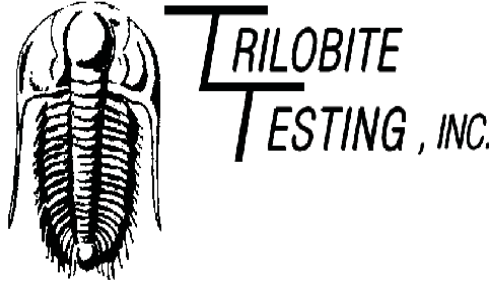
Fluid

Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 2





DRILL STEM TEST REPORT

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

1515 Wynkoop Suite 700
Denver CO 80202

ATTN: Chris Mitchel

Wahl Trust #1-32

32-14s-15w Russell,KS

Start Date: 2012.09.25 @ 19:00:04

End Date: 2012.09.26 @ 02:15:19

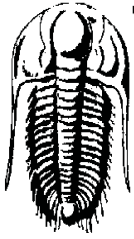
Job Ticket #: 47873 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.01 @ 14:34:44



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

32-14s-15w Russell, KS

1515 Wynkoop Suite 700
Denver CO 80202

Wahl Trust #1-32

Job Ticket: 47873

DST#: 3

ATTN: Chris Mitchel

Test Start: 2012.09.25 @ 19:00:04

GENERAL INFORMATION:

Formation: **C-D**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 20:23:19

Time Test Ended: 02:15:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3119.00 ft (KB) To 3161.00 ft (KB) (TVD)

Reference Elevations: 1885.00 ft (KB)

Total Depth: 3161.00 ft (KB) (TVD)

1877.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8789

Inside

Press@RunDepth: 112.35 psig @ 3156.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.25

End Date:

2012.09.26

Last Calib.:

2012.09.26

Start Time: 19:00:06

End Time:

02:15:19

Time On Btm:

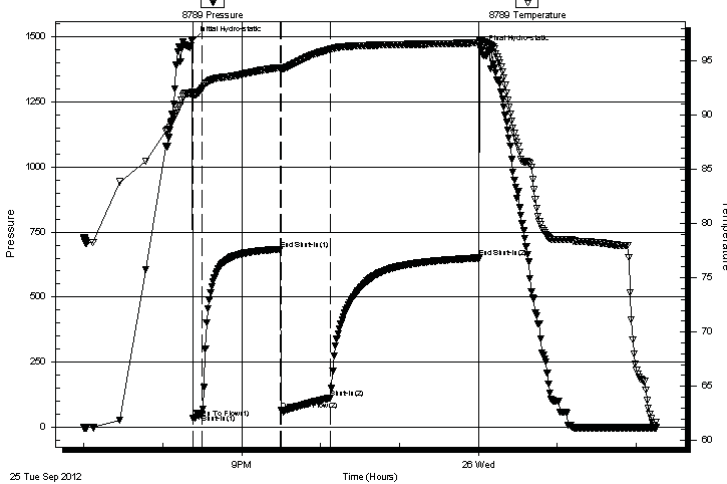
2012.09.25 @ 20:22:34

Time Off Btm:

2012.09.26 @ 00:02:04

TEST COMMENT: 5 Min. IFP-Strong, Built to 5" in 5 Min.
60 Min. ISI-Dead
30 Min. FFP-Strong, BOB in 5 Min.
120 Min. FSI-Blow back Built to 2"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1486.66	92.18	Initial Hydro-static
1	35.54	91.83	Open To Flow (1)
8	48.97	92.41	Shut-In(1)
67	684.31	94.39	End Shut-In(1)
68	63.79	94.21	Open To Flow (2)
105	112.35	96.07	Shut-In(2)
218	650.63	96.67	End Shut-In(2)
220	1450.13	96.87	Final Hydro-static

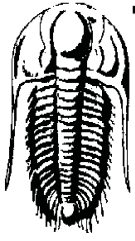
Recovery

Length (ft)	Description	Volume (bbl)
150.00	Muddy Water W/Oil Scum	1.83
60.00	Frothy Oil-50%G-50%O	0.84
0.00	690' Gas In Pipe	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

32-14s-15w Russell, KS

1515 Wynkoop Suite 700
Denver CO 80202

Wahl Trust #1-32

Job Ticket: 47873

DST#: 3

ATTN: Chris Mitchel

Test Start: 2012.09.25 @ 19:00:04

GENERAL INFORMATION:

Formation: **C-D**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 20:23:19

Time Test Ended: 02:15:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: **3119.00 ft (KB) To 3161.00 ft (KB) (TVD)**

Reference Elevations: 1885.00 ft (KB)

Total Depth: 3161.00 ft (KB) (TVD)

1877.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8289 Fluid

Press@RunDepth: psig @ 3084.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.25

End Date: 2012.09.26

Last Calib.: 2012.09.26

Start Time: 19:02:48

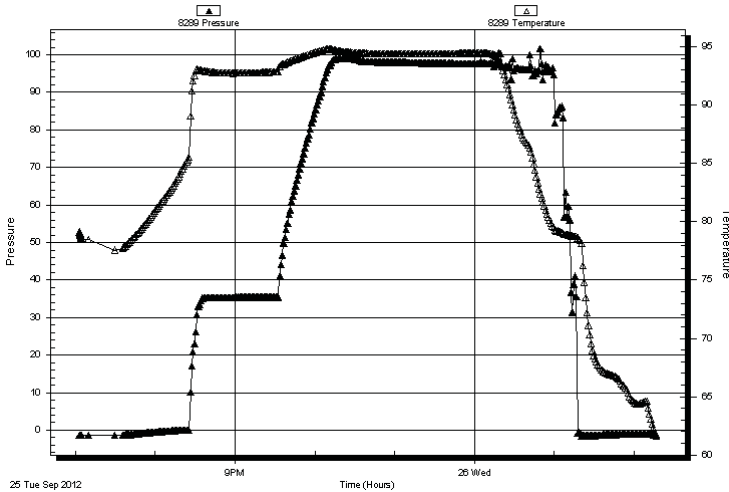
End Time: 02:17:16

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 Min. IFP-Strong, Built to 5" in 5 Min.
60 Min. ISI-Dead
30 Min. FFP-Strong, BOB in 5 Min.
120 Min. FSI-Blow back Built to 2"

Pressure vs. Time



PRESSURE SUMMARY

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

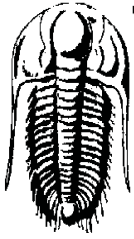
Recovery

Length (ft)	Description	Volume (bbl)
150.00	Muddy Water W/Oil Scum	1.83
60.00	Frothy Oil-50%G-50%O	0.84
0.00	690' Gas In Pipe	0.00

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

32-14s-15w Russell, KS

1515 Wynkoop Suite 700
Denver CO 80202

Wahl Trust #1-32

Job Ticket: 47873

DST#: 3

ATTN: Chris Mitchel

Test Start: 2012.09.25 @ 19:00:04

Tool Information

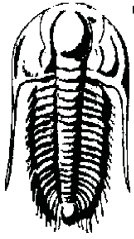
Drill Pipe:	Length: 3064.00 ft	Diameter: 3.80 inches	Volume: 42.98 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 43.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3119.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8289	Fluid	3084.00	
Change Over Sub	5.00			3089.00	
Shut In Tool	5.00			3094.00	
Sampler	3.00			3097.00	
Hydraulic tool	5.00			3102.00	
Jars	5.00			3107.00	
Safety Joint	2.00			3109.00	
Packer	5.00			3114.00	35.00 Bottom Of Top Packer
Packer	5.00			3119.00	
Stubb	1.00			3120.00	
Perforations	3.00			3123.00	
Change Over Sub	1.00			3124.00	
Blank Spacing	31.00			3155.00	
Change Over Sub	1.00			3156.00	
Recorder	0.00	8789	Inside	3156.00	
Recorder	0.00	8366	Outside	3156.00	
Perforations	2.00			3158.00	
Bullnose	3.00			3161.00	42.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

32-14s-15w Russell,KS

1515 Wynkoop Suite 700
Denver CO 80202

Wahl Trust #1-32

Job Ticket: 47873

DST#: 3

ATTN: Chris Mitchel

Test Start: 2012.09.25 @ 19:00:04

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:

53000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Muddy Water W/Oil Scum	1.831
60.00	Frothy Oil-50%G-50%O	0.842
0.00	690' Gas In Pipe	0.000

Total Length: 210.00 ft Total Volume: 2.673 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-200#- 1000ml Oil, 3000ml Water

Serial #: 8789

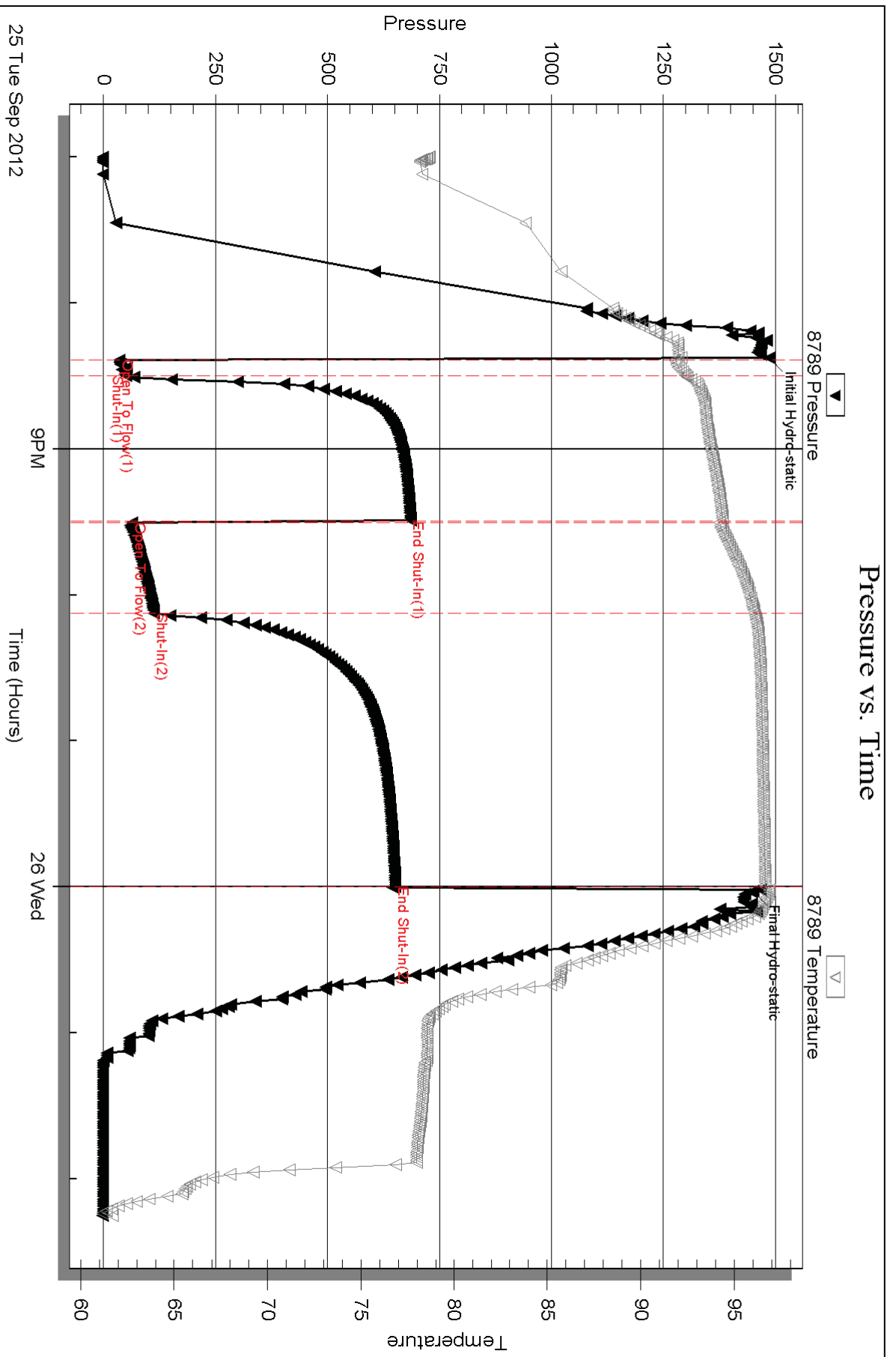
Inside

Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 3

Pressure vs. Time



Serial #: 8289

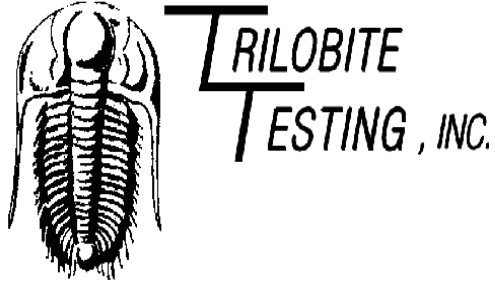
Fluid

Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 3





DRILL STEM TEST REPORT

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

1515 Wynkoop Suite 700
Denver CO 80202

ATTN: Chris Mitchel

Wahl Trust #1-32

32-14s-15w Russell,KS

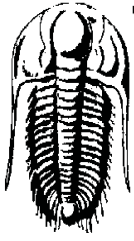
Start Date: 2012.09.26 @ 18:58:43

End Date: 2012.09.27 @ 03:33:13

Job Ticket #: 47874 DST #: 4

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

Printed: 2012.10.01 @ 14:33:53



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

32-14s-15w Russell, KS

1515 Wynkoop Suite 700
Denver CO 80202

Wahl Trust #1-32

Job Ticket: 47874

DST#: 4

ATTN: Chris Mitchel

Test Start: 2012.09.26 @ 18:58:43

GENERAL INFORMATION:

Formation: **H-I-J**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 20:48:13

Time Test Ended: 03:33:13

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3245.00 ft (KB) To 3310.00 ft (KB) (TVD)

Reference Elevations: 1885.00 ft (KB)

Total Depth: 3310.00 ft (KB) (TVD)

1877.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8366

Inside

Press@RunDepth: 53.00 psig @ 3282.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.26

End Date:

2012.09.27

Last Calib.:

2012.09.27

Start Time:

18:58:45

End Time:

03:33:13

Time On Btm:

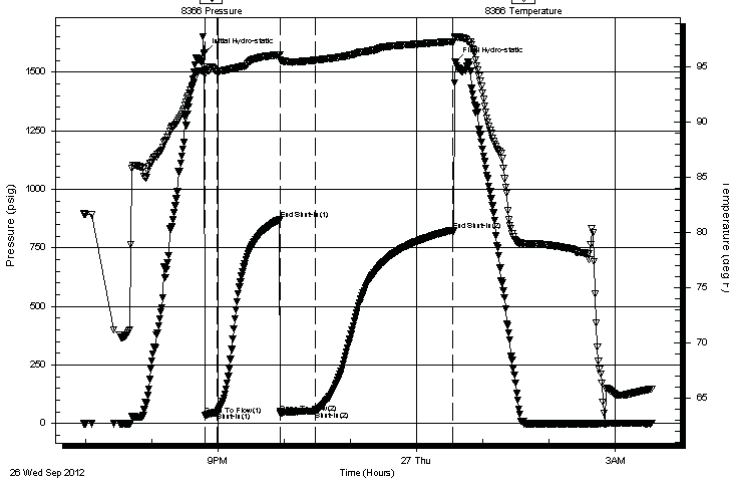
2012.09.26 @ 20:47:58

Time Off Btm:

2012.09.27 @ 00:34:58

TEST COMMENT: 10 Min. IFP-Weak Blow , Built to 1"
60 Min. ISI-Dead
30 Min. FFP-Weak Blow , Built to 2-1/4"
120 Min. FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1583.70	95.05	Initial Hydro-static
1	34.57	94.31	Open To Flow (1)
12	47.61	94.62	Shut-In(1)
68	871.76	96.12	End Shut-In(1)
69	44.09	95.63	Open To Flow (2)
100	53.00	95.63	Shut-In(2)
225	825.18	97.34	End Shut-In(2)
227	1545.88	97.78	Final Hydro-static

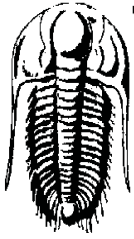
Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM-20%O-80%M	0.29

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

32-14s-15w Russell, KS

1515 Wynkoop Suite 700
Denver CO 80202

Wahl Trust #1-32

Job Ticket: 47874 **DST#: 4**

ATTN: Chris Mitchel

Test Start: 2012.09.26 @ 18:58:43

GENERAL INFORMATION:

Formation: **H-I-J**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 20:48:13

Time Test Ended: 03:33:13

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3245.00 ft (KB) To 3310.00 ft (KB) (TVD)

Reference Elevations: 1885.00 ft (KB)

Total Depth: 3310.00 ft (KB) (TVD)

1877.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8789 Outside

Press@RunDepth: psig @ 3282.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.26 End Date: 2012.09.27

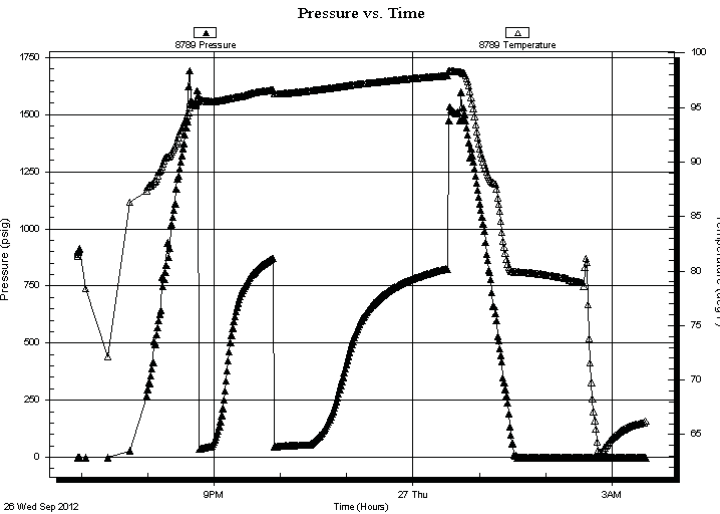
Last Calib.: 2012.09.27

Start Time: 18:56:20 End Time: 03:31:03

Time On Btm:

Time Off Btm:

TEST COMMENT: 10 Min. IFP-Weak Blow , Built to 1"
60 Min. ISI-Dead
30 Min. FFP-Weak Blow , Built to 2-1/4"
120 Min. FSI-Dead



PRESSURE SUMMARY

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

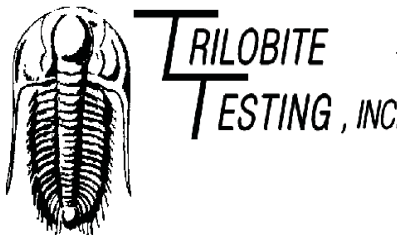
Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM-20%O-80%M	0.29

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

32-14s-15w Russell,KS

1515 Wynkoop Suite 700
Denver CO 80202

Wahl Trust #1-32

Job Ticket: 47874

DST#: 4

ATTN: Chris Mitchel

Test Start: 2012.09.26 @ 18:58:43

GENERAL INFORMATION:

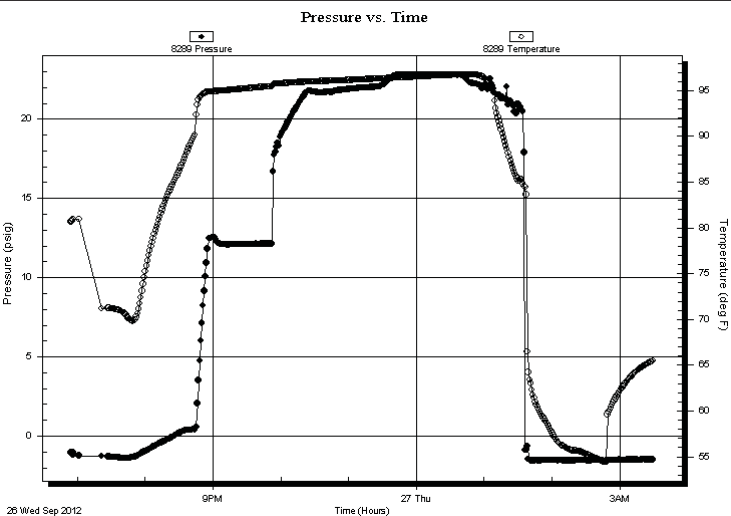
Formation: H-I-J			Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: 0.00 ft (KB)			Tester: Jason McLemore
Time Tool Opened: 20:48:13			Unit No: 54
Time Test Ended: 03:33:13			
Interval: 3245.00 ft (KB) To 3310.00 ft (KB) (TVD)		Reference Elevations: 1885.00 ft (KB)	
Total Depth: 3310.00 ft (KB) (TVD)		1877.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 8.00 ft	

Serial #: 8289

Fluid

Press@RunDepth: psig @ 3210.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.09.26 End Date: 2012.09.27	Last Calib.: 2012.09.27
Start Time: 18:54:35 End Time: 03:29:48	Time On Btm: Time Off Btm:

TEST COMMENT: 10 Min. IFP-Weak Blow , Built to 1"
60 Min. ISI-Dead
30 Min. FFP-Weak Blow , Built to 2-1/4"
120 Min. FSI-Dead



PRESSURE SUMMARY

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

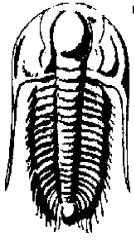
Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM-20%O-80%M	0.29

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates

32-14s-15w Russell, KS

1515 Wynkoop Suite 700
Denver CO 80202

Wahl Trust #1-32

Job Ticket: 47874

DST#: 4

ATTN: Chris Mitchel

Test Start: 2012.09.26 @ 18:58:43

Tool Information

Drill Pipe:	Length: 3190.00 ft	Diameter: 3.80 inches	Volume: 44.75 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 44.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3245.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	100.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

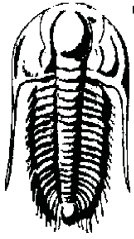
Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8289	Fluid	3210.00	
Change Over Sub	5.00			3215.00	
Shut In Tool	5.00			3220.00	
Sampler	3.00			3223.00	
Hydraulic tool	5.00			3228.00	
Jars	5.00			3233.00	
Safety Joint	2.00			3235.00	
Packer	5.00			3240.00	35.00 Bottom Of Top Packer
Packer	5.00			3245.00	
Stubb	1.00			3246.00	
Perforations	3.00			3249.00	
Change Over Sub	1.00			3250.00	
Blank Spacing	31.00			3281.00	
Change Over Sub	1.00			3282.00	
Recorder	0.00	8366	Inside	3282.00	
Recorder	0.00	8789	Outside	3282.00	
Perforations	25.00			3307.00	
Bullnose	3.00			3310.00	65.00 Bottom Packers & Anchor

Total Tool Length: 100.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

32-14s-15w Russell,KS

1515 Wynkoop Suite 700
Denver CO 80202

Wahl Trust #1-32

Job Ticket: 47874

DST#: 4

ATTN: Chris Mitchel

Test Start: 2012.09.26 @ 18:58:43

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
40.00	OCM-20%O-80%M	0.288

Total Length: 40.00 ft Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-250#, 1000ml Oil, 3000ml Drilling Mud

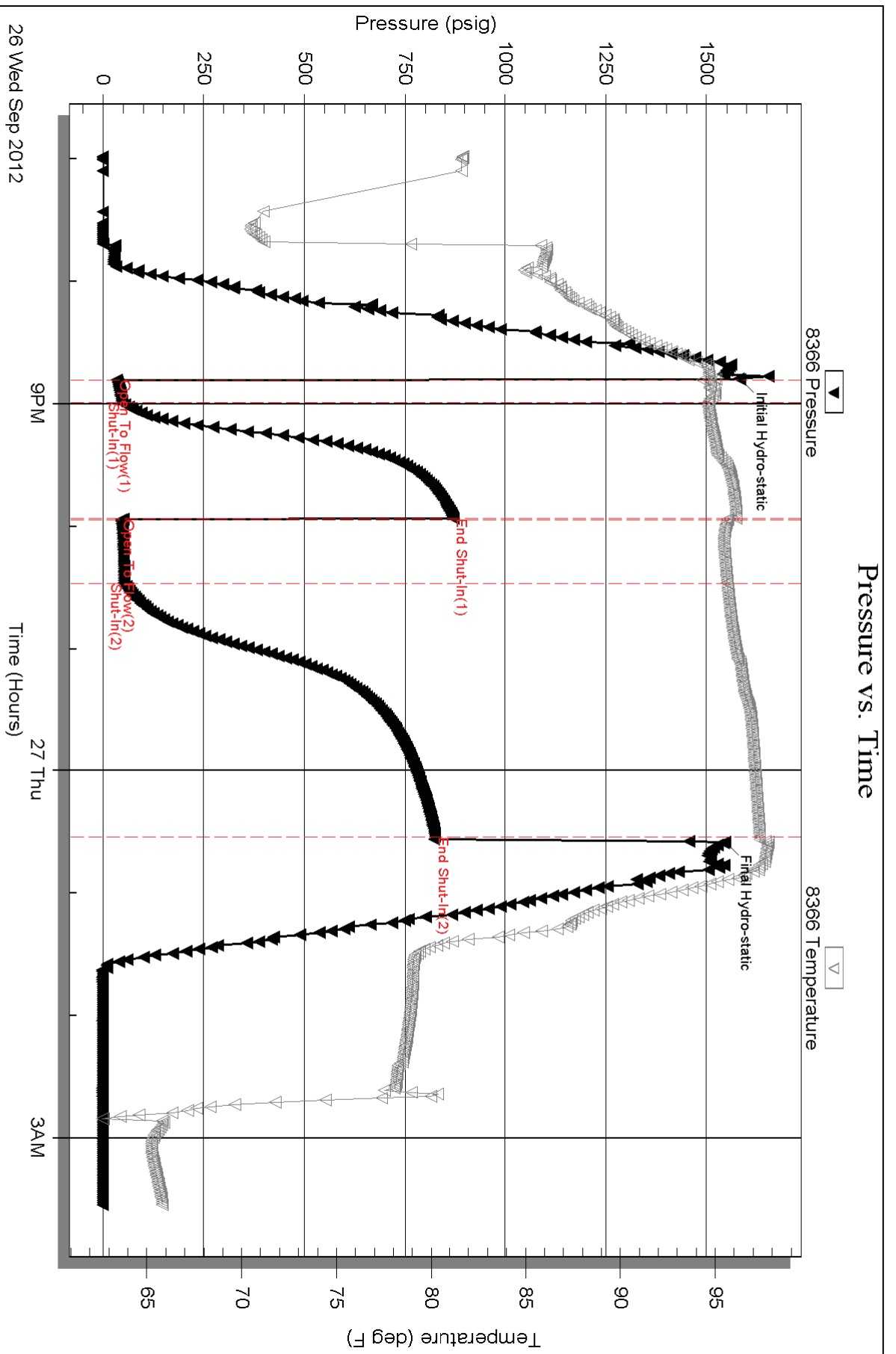
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Inside

Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 4

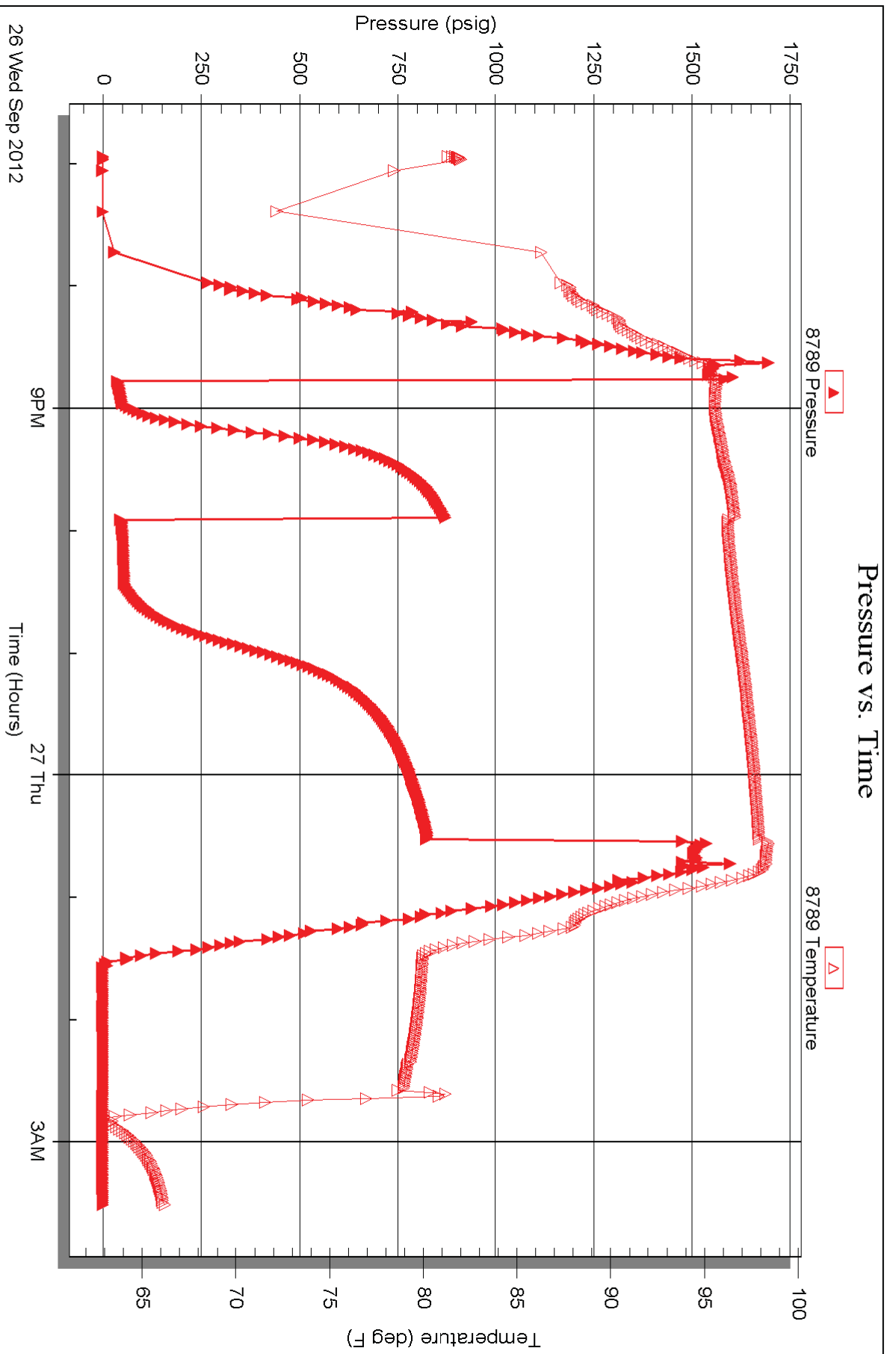


Serial #: 8789

Outside Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 4



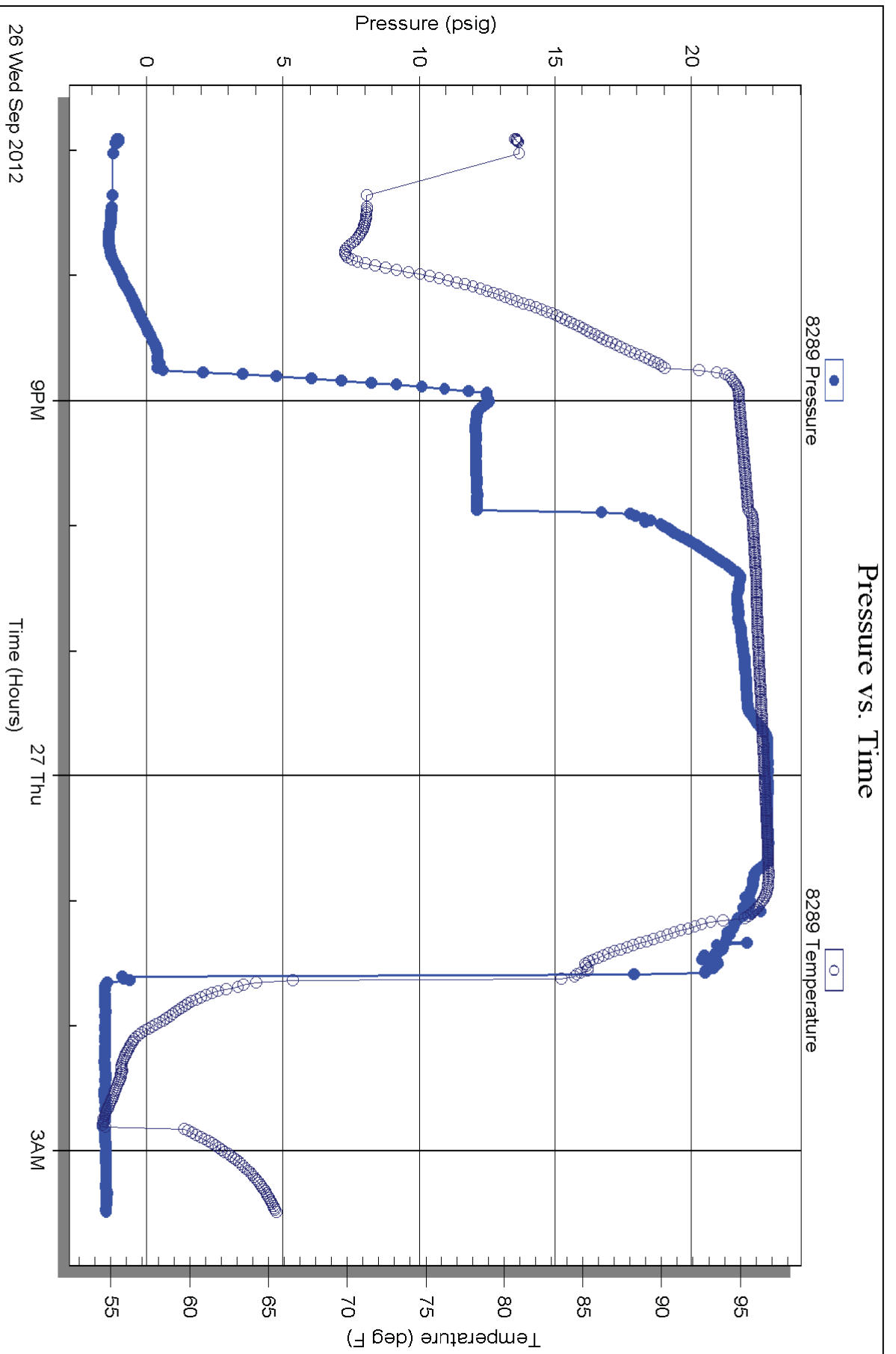
Serial #: 8289

Fluid

Samuel Gary Jr. & Associates

Wahl Trust #1-32

DST Test Number: 4





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

Well Name: WAHL TRUST # 1-32
 Location: Sec 32 14s 15w, Russell County, Kansas
 License Number: 15-167-23825-0000
 Spud Date: SEPT. 20, 2012
 Surface Coordinates: 800' FNL & 1410' FWL
 Region: Wildcat
 Drilling Completed: SEPT. 27, 2012

Bottom Hole
 Coordinates:
 Ground Elevation (ft): 1877' K.B. Elevation (ft): 1885'
 Logged Interval (ft): 1800' To: 3550' Total Depth (ft): 3550'
 Formation: Lansing, Arbuckle
 Type of Drilling Fluid: Natural Chemical

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

OPERATOR

Company: Sam Gary Jr. & Assoc.
 Address: 1515 Wynkoop, Ste. # 700
 Denver, Co. 80202
 Co. Geo: Chris Mitchell

GEOLOGIST

Name: Tim Hedrick
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683 8918 5th st
 Hooker, Okla. 73945 Great Bend, Kansas 67530
 888-543-8378 580-754-0062

DST REPORT

DST #1 3000- 3040' 10 60 30 120
 IF-BLT TO 8"/ ISI - NB/ FF-BOB IN 17 MIN./ FSI- BLT TO 1/2" DIED IN 15 MIN.
 IH- 1407, FH- 1347/ IF- 34 TO 61, FF-71 TO 121/ ISI-1075, FSI-1067/ RECOVERED-210' GIP, 210' TF- 90' FROTHY
 OCMW, 30% O., 10%W., 60%M./ 120' MW W/ OIL SCUM /PIT
 CHL- 7800/ SAMPLER- 125 PSI, 4000 ML WATER/ 77,000 CHL

DST#2 3054' -3119 5 60 30 120
 IF- BOB 4MIN./ ISI-CRFC BLO DIED IN 5 MIN./ FF- BOB IN 5 MIN./FSI- BLT TO 1"/ IH- 1464, FH- 1456/ IF- 36 TO
 98, FF-118 TO 336/ISI- 863, FSI-851/ RECOVERED 210' GIP, 810' MW, W OIL SCUM/ SAMPLER- 150#, 4000 ML
 WATER, PIT CHL-7500, TEST CHL 74,000



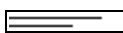

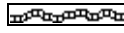



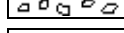

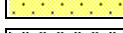
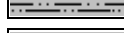







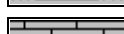
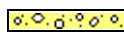
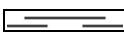
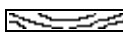


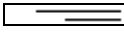




DST's Report

DST#3 3119-3161' 5 60 30 120
 IF- 5" IN 5 MIN/ ISI- NB/ FF-BOB IN 5 MIN./FSI- BLT TO 2"
 IH-1487, FH-1450/ IF-36 TO 49, FF- 64 TO 112/ ISI-684, FSI- 651, RECOVERED- 210' GIP, 210' TF, 60' FROTHY
 OIL, 50%G, 50% O., 150' FRTHY W.,W/OIL SCUM, 90%W., 10% M.-SAMPLER 200#, 1000 ML OIL, 3000 ML
 WATER, BHT 96 DEG, PIT CHL-7500, TEST CHL- 48,000

DST's Report

DST# 4 3245' - 3310' 10 60 30 120
 IF- 1' BLOW/ ISI- NB/ FF- BLT TO 2 1/4"/ FSI-NB
 IH- 1584, FH - 1546 /IF- 35 TO 48, FF- 44 TO 53/ ISI-872, FSI- 825/ RECOVERED 40' OCM, 20% O., 80% MUD /
 SAMPLER 250 PSI, 1000 ML OIL, 3000 ML MUD, BHT 98 DEG., PIT CHL- 7500

ROCK TYPES

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

ACCESSORIES

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
- 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

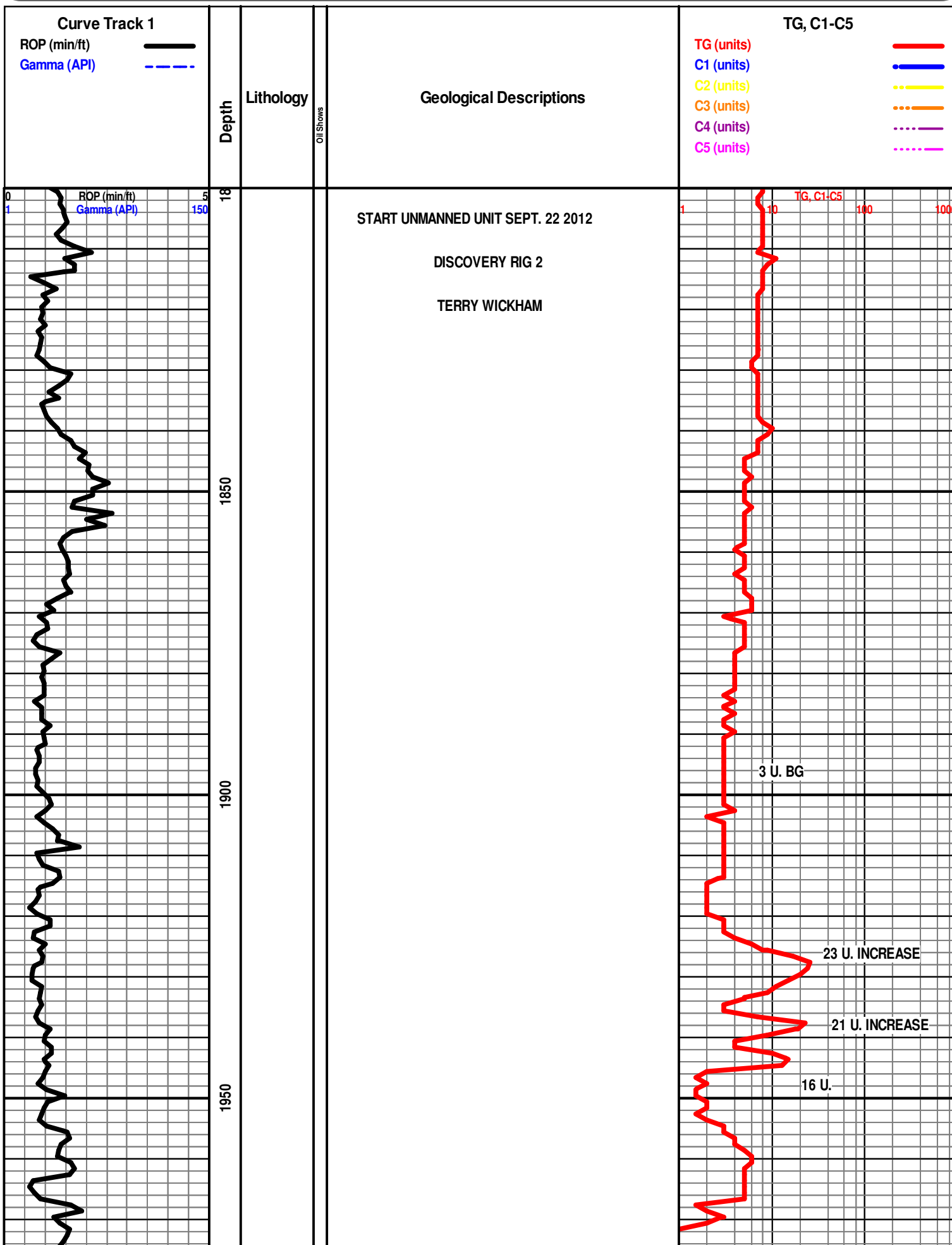
- Even
- Spotted
- Ques
- Dead
- Gas show

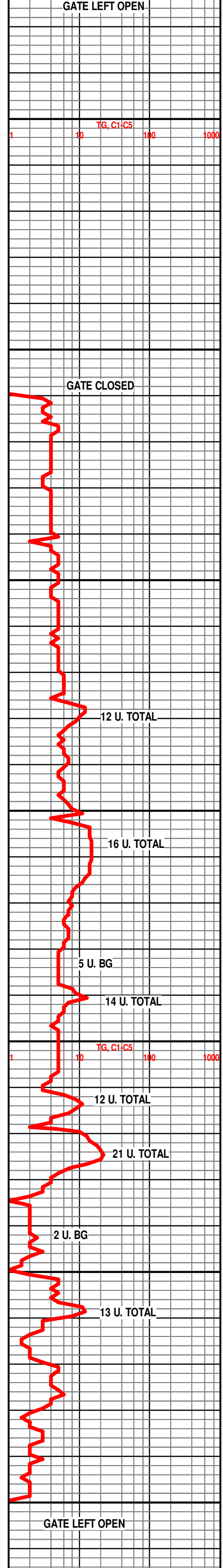
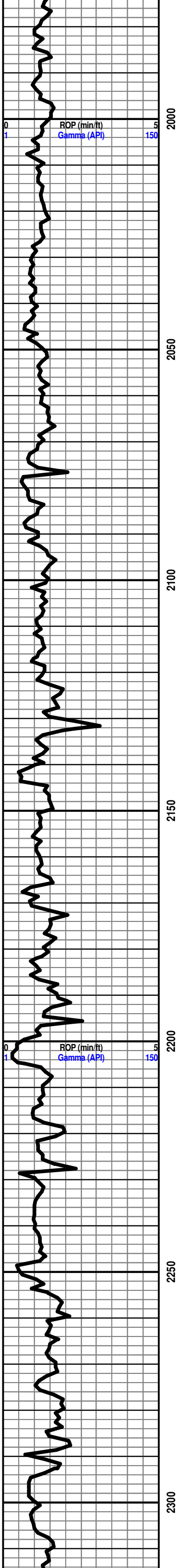
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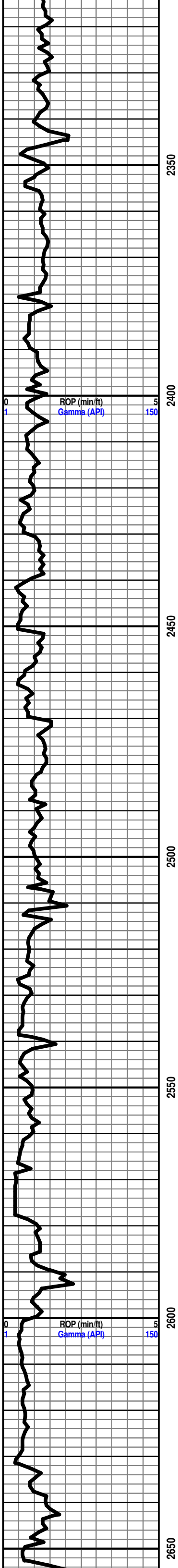
- Core
- Dst
- Dst

EVENTS

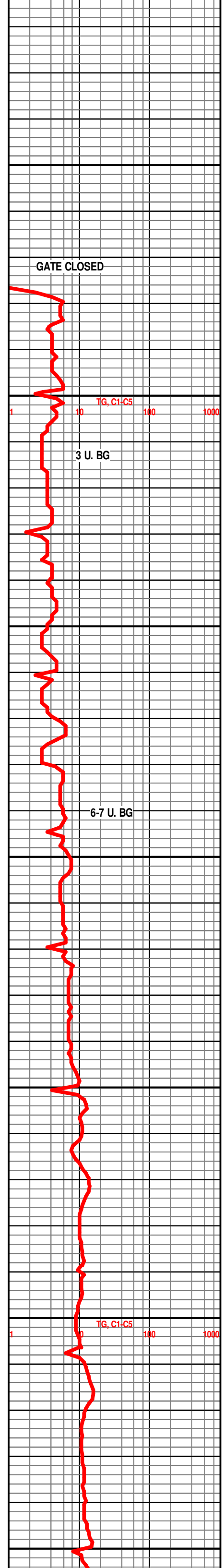
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- Sidewall

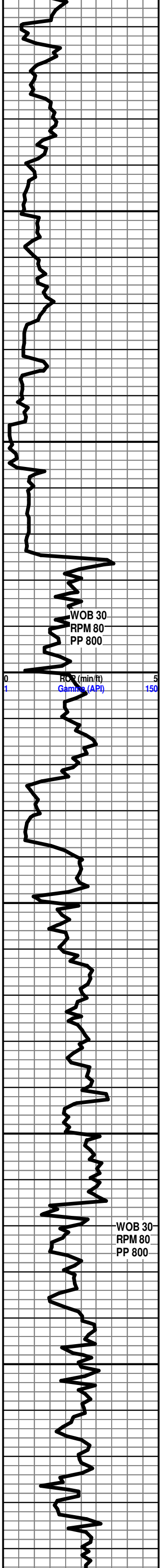






BRS 2578' - 693'





2700

2750

2800

2850

2900

2950

SH- LT GY TO LT GRN- FRM BLKY IP TO V/ GRNY TXT IP,

LS- LT TN TN LT GY- HD DNS MD-FXLN IP TO V/ CRS SUCRO MTRX, MOTT, IMBD FOSS FRGS , TR IMBD GLAUC, V/ DLL YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW OR CUT

LS- CRM LT TN LT BRN- HD DNS TO TR BRITT, MD-F-XLN, RE-XLN IP, SCAT IMBD FOSS FRGS & TR FREE FOSS FRGS, TR IMBD DISS LT GY SH IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT CRM BFF- HD DNS TO BRITT IP, MD-F-XLN , RE-XLN MTRX, ABDT IMBD FOSS FRGS THRU, ABDT IMBD SMLL CALC XLS , BRIT YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT CRM LT TN TN - HD DNS MD-F-XLN RE-XLN MTRX, FOSS FRGS IMBD IP, ABDT SCAT IMBD FNLY DISS PYR THRU, LT BRIT YEL SCAT YEL FLO IP, NO VIS POR, NO VIS SHOW OR CUT

LS- CRM LT TN TN LT GY IP- HD DNS MOTT IP, MD-F-XLN RE-XLN MTRX, IMBD FOSS FRGS SCAT THRU, SMLL CALC XLS IMBD THRU, SCAT IMBD LT GY SH IP, SCAT LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT CRM BFF- HF FND TO BRITT IP, MD-F-XLN RE-XLN MTRX , V/ FOSS IP TO V/ SFT S-CHLKY TO CHLKY IP, HVY TR LT TN TO GY MOTT CHRT IP

SH- BLK SFT CARB

LS- LT TN LT GY- HD DNS TO BRITT, MD-F-XLN RE-XLN MTRX, IMBD FOSS FRGS IP, TR IMBD LT TO DK GY SHIP, IMBD FNLY DISS PYR IP, SLI TR IMBD CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT CRM BFF- HD DNS SLI TR BRITT, F-V/F-XLN TO SUCRO TR S-CHLKY IP, HVY TR WHT CHRT IP, DLL YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT CRM LT GY- HD DNS TO BRITT, MD-XLN RE-XLN MTRX, V/ S-CHLKY TO CHLKY IP, IMBD FOSS FRGS IP , IMBD DISS LT GY SH IP, DLL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

SH- BLK SFT CARB

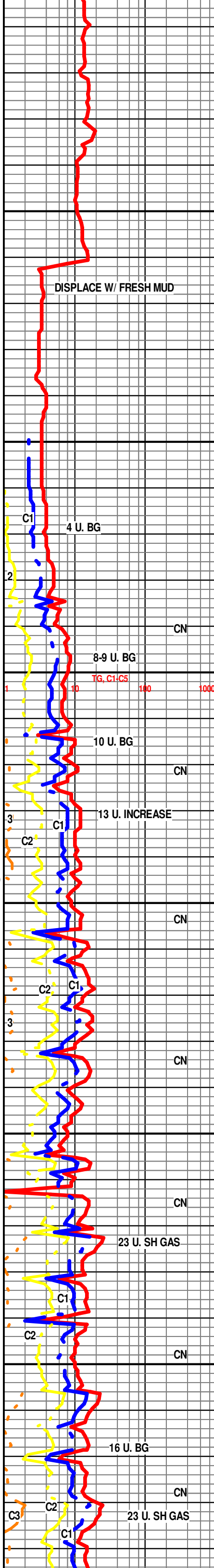
LS- OFF WHT WHT- MD HD TO SFT, ABDT WHT CHLK, TR LT GY TO GY CHRT, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

START 24 HR MANNED UNIT SEPT.23,2012

HOWARD 2774' - 889'

TOPEKA 2837' - 952'

LE COMPTON 2937' - 1052'



DISPLACE W/ FRESH MUD

C1 4 U. BG

8-9 U. BG

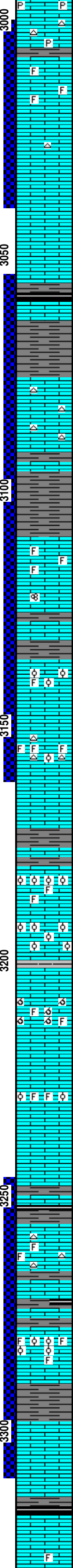
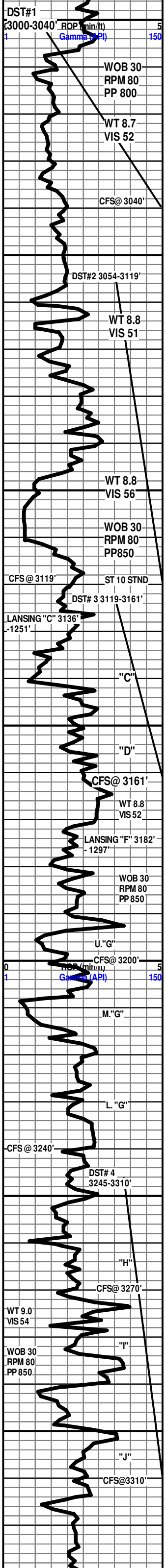
10 U. BG

13 U. INCREASE

23 U. SH GAS

16 U. BG

23 U. SH GAS



LS- LT TN LT GY- HD DNS TO BRITT, MD-F-XLN RE-XLN MTRX, IMBD FOSS FRGS IP, IMBD FNLY DISS PYR IP, HVY TR PYR CLSTRS, SLI TR IMBD CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT CRM -HD DNS IP TO BRITT, MD-F-XLN V/ SUCRO S-CHLKY ABDT IMBD FOSS FRGS , HVY TR CHLK IP, LT YEL MIN FLO , NO VIS POR,NO VIS SHOW

LS- CRM LT TN DK TN BRN(DUE TO OIL STN SCAT THRU) HD DNS TO BRITT, F-V/F-XLN, MD-XLN IP, RE-XLN MTRX,SLI S-CHLKY IP, TR FOSS FRGS SCAT THRU, HVY TR SMLL IMBD TO LRG FREE ANG CALC XLS W/ OIL STN,TR SCAT DISS PYR IP, BRIT YEL GLD FLO IN 30 %, DLL YEL GLD FLO IN 60%, PR TO FR TR GD MICRO VUG TO VUG POR SCAT THRU, POSS FRACT POR IP,GOOD STRNG OIL ODOR, EXCEL INST FLSH CUT THRU, EXCEL SLO STRM MLKY BLU CUT THRU, BRN STN ON DISH, LIVE OIL ON DISH

HEEBNER 3057' - 1172'

SH- BLK SFT CARB

3079'-3083' LS- OFF WHT TO LT TN (DUE TO SCAT LT BRN OIL STN SCAT IN 60%), HD DNS TO TR BRITT IP, MD-F-XLN IP TO V/ SUCRO MTRX, RE-XLN IP SMLL CALC XLS, ABDT SCAT IMBD WHT LT GY MOTT CHRT, BRIT YEL GLD FLO IN 60-70%, DLL YEL GLD FLO IN 10%, PR TO FR VIS INTER-XLN & PR TO FR VIS MICRO PP POR IN 8-10%, V/GD FLSH CUT IN 60%, FR TO GD SLO STRM MLKY BLU CUT IN 60%,FR OIL ODOR, LT TN STN ON DISH

DOUGLAS 3096' -1211'

SH- LT GY TO LT GRY FRM IP TO V/ SFT SLTY TXT

LANSING 3111' - 1226'

3111-3115' LS- LT TN DK TN (DUE TO EVEN LT BRN OIL STN IN 50%) HD DNS IP TO V/ BRIT, MD-F-XLN, V/ RE-XLN MTRX, V/ FOSS IP, ABDT IMBD SMLL CALC XLS THRU, BRIT YEL GLD FLO IN 60%, PR TO FR TO TR GD INTER-FOSS POR IN 10%, PR TO FR INTER-XLN POR IN 10%, EXCEL INST FLSH CUT THRU, EXCEL SLO STRM MLKY BLU CUT IN 80%, GD OIL ODOR, LT BRN LCH ON DISH

3121-3126- LS- OFF WHT CRM LT TN (SCAT LT TN TN STN IN 40-50), HD DNS TO BRITT IP, F-XLN TO V/ TT SUCRO MTRX, ABDT IMBD SMLL CALC XLS IMBD IP, SLI TR FOSS FRGS IP, BRIT YEL GLD FLO 80%, DLL YEL GLD FLO IN 15%, PR MICRO PP POR IN 5%, SLI TR MICRO VUG POR IP, FR TO GD FLSH CUT IN 60%, GD SLO STRM MLKY BLU CUT 70%, FR OIL ODOR, LT TN STN ON DISH

3136'- 3141' LS- OFF WHT CRM LT TN TN(DUE TO SCAT DK TN OIL STN IN 30%) HD V. BRITT, MD-F-XLN RE-XLN MTRX, FOSS IP, ABDT IMBD SMLL OOL IP, TR IMBD WHT CHLK IP, HVY TR ABDT SFT WHT CHLK IP, BRIT YEL GLD FLO IN 30%, DLL YEL GLD FLO IN 30%, FR VIS INTER-OOL POR IN 2%, PR INTER-FOSS POR IN 2%, FR FLSH CUT IN 30%, PR TO FR TR GD SLO STRM CUT IN 30%, NO ODOR, V/ LT OIL STN ON DISH

3153-3156' LS- CRM LT TN DK TN (DUE TO SCAT TN TO DK BRN OIL STN THRU)HD DNS IP TO V/ BRITT, MD-F-XLN V/ RE-XLN MTRX, V/ FOSS THRU, TR FREE FOSS IP,TR SCAT IMBD OOL IP, ABDT IMBD LT GY TO WHT CHRT, SMLL IMBD CALC XLS IP, BRIT YEL GLD FLO IN 70%, DLL YEL GLD FLO IN 20%, PR FR TO GD VIS INTER-FOSS POR IN 15-20%, SCAT PR TO TR FR MICRO VUG POR IP, EXCEL FLSH CUT IN 80%, EXCEL SLO STRM MLKY BLU CUT IN 80-90%, GD OIL ODOR, TR LIVE OIL ON CUP, TN STN ON DISH

3182-3185' LS OFF WHT CRM BLK(DUE TO DOS THRU), HD V/ BRITT, MD-F-XLN RE-XLN MTRX, V/ MICRO OOL, V/ FOSS, SLI TR SFT WHT CHLK IP, BRIT YEL GLD FLO IN 2%, DLL YEL FLO IN 5%, NO FLO IN 90%,TR V/ PR INTER-OOL POR , TR PR INTER-FOSS POR IP, LT OIL ODOR, V/ PR FLSH CUT IN 5%, V/ WK SLO STRM CUT IN 50%,

3193- 3198' LS- OFF WHT CRM LT TN(LT TN OILS STN SCAT IN 30%) HD V BRITT, MD-XLN RE-XLN MTRX, S-CHLKY IP TO HVY TR ABDT SFT CHLK IP, ABDT IMBD SMLL TO MD OOL, CHLKY OOL IP, SCAT IMBD FOSS FRGS IP, BRIT YEL GLD FLO IN 20%, DLL YEL GLD FLO IN 10%, PR VIS INTER-OOL POR IN 20%, WK FLSH CUT IN 1%, V/ WK SLO STRM CUT IN 5%, FR OIL ODOR, NO STN ON DISH

3208- 3214' LS- OFF WHT WHT, HD V/ BRITT, MD-F-XLN , V/ RE-XLN MTRX, V/ FOSS IP , V/ OOLMLD , MICRO OOL, HVY TR ABDT SFT WHT CHLK, DLL YEL MIN FLO IN 50%, ABDT PR SCAT MICRO OOLMLD POR IN 50%, NO VIS CUT OR SHOW

3228-3230' LS- OFF WHT CRM LT TN DUE TO STN IN 30%, HD DNS IP TO V/ BRITT, MD-XLN IP , RE-XLN MTRX TO SUCRO S-CHLKY IP, ABDT IMBD FOSS FRGS IP, IMBD SMLL OOL IP, BRIT YEL GLD FLO IN 20%, DLL YEL FLO IN 30%, TR V/ PR INTER-FOSS POR IN 2%, LT FLSH CUT IN 20%, FR SLO STRM CUT IN 30%, V/ PR SLO STRM CUT IN 30%, LT OIL ODOR, NO STN ON DISH

LANSING "H" 3255' -1370'

SH- GRN -GRM BLKY SMTH TXT TO BLK SFT CARB IP

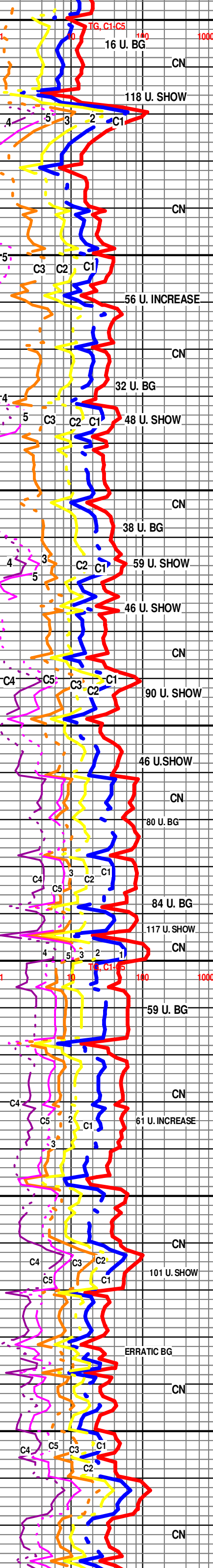
3260' LS- CRM LT TN TN (EVEN TN STN IN 50%) HD DNS TR BRITT, MD-F-XLN RE-XLN MTRX, V/ TT SUCRO IP, SMLL IMBD CALC XLS IP, TR FOSS FRGS IP, SCAT IMBD LT GY TO WHT CHRT IP, BRIT YEL GLD FLO IN 60%, DLL YEL FLO IN 20, PR SCAT MICRO PP POR IN 20%, SLI TR SCAT MICRO VUG POR IN 1%, GD FLSH CUT IN 10%, GD SLO STRM CUT IN 30%, GD OIL ODOR, NO STN ON DISH

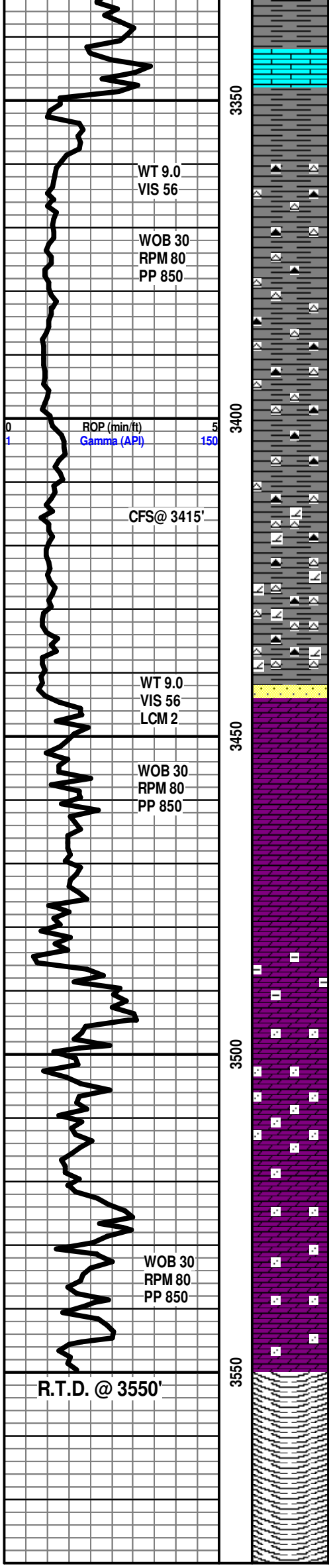
3270-3272' LS- LT TN DK TN(DUE TO SAT. BRN OIL STN) 3 ROCKS- HD DNS TO TR BRITT IP, V/ TT SUCRO MTRX, TR IMBD FOSS IP,TR LMNTD BLK CARB SH ON ONE FACES, BRIT YEL GLD FLO IN 100% 3 ROCKS, PR TO FR VIS MICRO PP POR THRU, SLI TR MICRO VUG POR IP, GD FLSH CUT TO GD SLO STRM CUT IN 100%, GD OIL ODOR, LT TN STN ON DISH

3279- 3284' LS- CRM LT TN TN (DUE TO TN TO DK TN OIL STN IN 90%) HD V/ BRITT, MD-F-XLN V/ RE-XLN MTRX, V/ FOSS, ABDT IMBD SMLL MICRO OOL , TR SCAT MD OOL IP, SMLL CALC XLS INTER-FOSS AND INTER-OOL, BRIT YEL GLD FLO IN 95%, DLL YEL FLO IN 5%, PR TO FR VIS INTER-FOSS AND PR TO FR VIS INT-OOL POR IN 30%, GD VIS INTER-FOSS AND GD VIS INTER-OOL POR IN 3%, FR FLSH CUT THRU TO FR TO GD SLO STRM CUT IN 90%, GD STRNG OIL ODOR, LT TN LCH ON DISH

3306-3308' LS- LT TN DK TN DUE TO TN STN SCAT THRU, HD DNS F-V/F-XLN, RE-XLN MTRX, TR IMBD FOSS FRGS IP, SLI SUCRO IP, DLL YEL GLD FLO IN 60% , BRIT YEL GLD FLO IN 2%, NO VIS POR, FR FLSH CUT IN 20%, FR TO GD SLO STRM CUT IN 20%, GD OIL ODOR,

LS- CRM LT TN TN- HD DNS F-V/F-XLN MD-XLN IP SLI





RE-XLN, SLI TR FOSS FRGS IP, L1 YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

BKC 3348' - 1463'

SH- RED TO DK GY GRN IP, FRM BLKY TO V/ SFT GMMY TXT

SH- RED GMMY SLTY, W/ ABDT RED BRN ORNG CHRT, HVY TR REWORKED CHRT W/ IMBD OOL IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

SH- RED GMMY SLTY, W/ ABDT RED BRN ORNG CHRT, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

SH- RED GMMY SLTY, W/ ABDT RED BRN ORNG CHRT, ABDT SFT DOLO CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

ARBUCKLE 3444' - 1559'

3442-3444' SS- CLR FRSTY- HD DNS PRED UNCNSLDTD GRNS. RND TO S-RND, FR TO WLL SRT, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

DOLO- WHT OFF WHT - HD DNS TO BRITT, F-XLN TO V/ CRS SUCRO MTRX, ABDT IMBD SMLL TO MD ANG WHT DOLO GRNS IP, DLL YEL MIN FLO THRU, PR TO FR VIS INTER-XLN POR IP, NO VIS SHOW OR CUT

DOLO- WHT OFF WHT - HD DNS TO BRITT, F-XLN TO V/ CRS SUCRO MTRX, ABDT IMBD SMLL TO MD ANG WHT DOLO GRNS IP, DLL YEL MIN FLO THRU, PR TO FR VIS INTER-XLN POR IP, NO VIS SHOW OR CUT

DOLO- WHT OFF WHT - HD DNS TO BRITT, F-XLN TO V/ CRS SUCRO MTRX, ABDT IMBD SMLL TO MD ANG WHT DOLO GRNS IP, TR GRN IMBD CLAY, DLL YEL MIN FLO THRU, PR TO FR VIS INTER-XLN POR IP, NO VIS SHOW OR CUT

DOLO- WHT OFF WHT - HD DNS TO BRITT, F-XLN TO V/ CRS SUCRO MTRX, ABDT IMBD SMLL TO MD ANG WHT DOLO GRNS IP, ABDT IMBD SMLL TO MD CLR S-RND TO RND CLR QRTZ GRNS, DLL YEL MIN FLO THRU, PR TO FR VIS INTER-XLN POR IP, NO VIS SHOW OR CUT

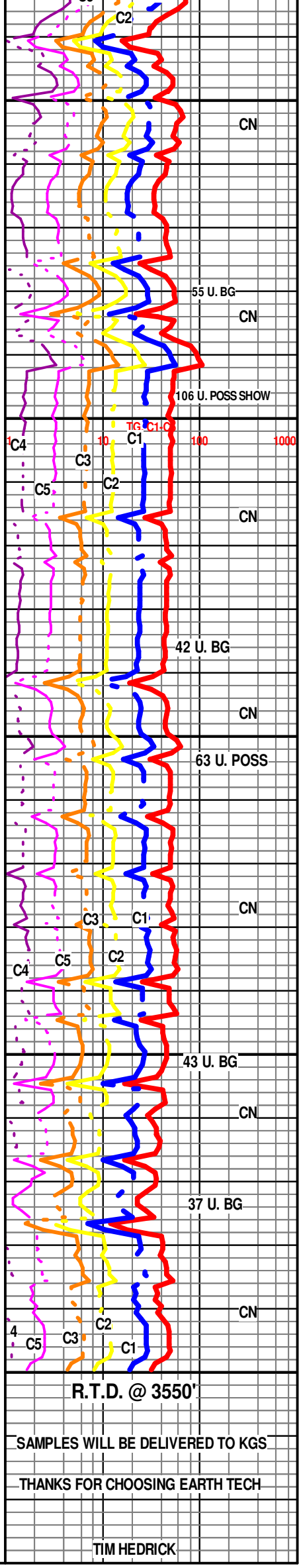
DOLO-OFF WHT WHT CRM- HD DNS IPTO V/ BRITT, MD-F-XLN TO CRS SUCRO MTRX, ABDT IMBD SMLL ANG DOLO GRNS, ABDT IMBD SMLL TO MD CLR S-RND TO RND QRTZ GRNS, DLL YEL MIN FLO IP, PR TO FR VIS INTER-XLN POR TR PR MICRO VUG POR IP, NO VIS SHOW OR CUT

R.T.D. @ 1:15 PM SEPT. 27, 2012

CTCH 1.5 HRS

TRIP OUT F/ LOGS

WEATHERFORD/ LIBERAL



R.T.D. @ 3550'

SAMPLES WILL BE DELIVERED TO KGS

THANKS FOR CHOOSING EARTH TECH

TIM HEDRICK