



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1232218  
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: \_\_\_\_\_

1232218

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:  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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	CASEY ET AL 1-22
Doc ID	1232218

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL





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

Date: 7/28/2014  
 Invoice # 369

P.O.#:  
 Due Date: 8/27/2014  
 Division: Russell

# Invoice

**Contact:**  
 Samuel Gary Jr & Associates Inc  
**Address/Job Location:**  
 Samuel Gary Jr & Associates Inc  
 1935 LOUIE ROAD  
 HAYS KANSAS 67601

**RECEIVED**

AUG 06 2014

SAMUEL GARY JR.  
 & ASSOCIATES, INC.

**Reference:**  
 CASEY ET AL 1-22

**Description of Work:**  
 SURFACE JOB

DRLG  COMP  W/O  LOE  GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	see field ticket
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	No				
Common-Class A	175	\$ 2,933.82	Yes				
Pump Truck Mileage-Job to Nearest Camp	43	\$ 479.63	No				
Bulk Truck Matl-Material Service Charge	184	\$ 411.29	No				
Calcium Chloride	6	\$ 373.25	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	43	\$ 280.66	No				
8 5/8" Centralizer	1	\$ 71.53	Yes				
Premium Gel (Bentonite)	3	\$ 54.59	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 5,625.32  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (843.80)

SubTotal for Taxable Items:	\$ 2,918.21
SubTotal for Non-Taxable Items:	\$ 1,863.31
Total:	\$ 4,781.52
Tax:	\$ 179.47

6.15% Rooks County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 4,960.99**  
**Applied Payments:**  
**Balance Due: \$ 4,960.99**

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. 369

Date	7-28-14	Sec.	22	Twp.	9	Range	16	County	Rooks	State	KS	On Location		Finish	6:45 p.m.			
Location								C/O 3E 28R 4W WR 5/8E into										
Lease	Casey ETAL		Well No.		1-22		Owner											
Contractor	Discovery #4		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	Surface		Charge To									Sam Curry Jr & Associates						
Hole Size	12 1/4		T.D.		305		Street											
Csg.	8 5/8		Depth		304		City									State		
Tbg. Size			Depth				The above was done to satisfaction and supervision of owner agent or contractor.											
Tool			Depth				Cement Amount Ordered									1750M. 3/42/CEL 1/2#10		
Cement Left in Csg.	15'		Shoe Joint				Meas Line									Displace 18 1/4 BCL		
EQUIPMENT												Common				175		
Pumptrk	18	No.	Cementer	Cory		Helper		Cory		Driver		Clayton		Poz. Mix				
Bulktrk		No.	Driver			Driver				Gel.		3		Calcium		6		
Bulktrk	14	No.	Driver	Clayton		Driver				Hulls				Salt				
JOB SERVICES & REMARKS												Remarks:						
Rat Hole												Flowseal						
Mouse Hole												Kol-Seal						
Centralizers												Mud CLR 48						
Baskets												CFL-117 or CD110 CAF 38						
D/V or Port Collar												Sand						
8 5/8 on bottom Est. Circulation												Handling				184		
Mix 175 SK & Displace.												Mileage						
Cement Circulated!												FLOAT EQUIPMENT						
												Guide Shoe				8 5/8		
												Centralizer				1		
												Baskets						
												AFU Inserts						
												Float Shoe						
												Latch Down						
												Pumptrk Charge				Surface		
												Mileage				43		
Signature												Tax						
												Discount						
												Total Charge						



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

Date: 8/4/2014  
 Invoice # 529  
 P.O.#:  
 Due Date: 9/3/2014  
 Division: Russell

**RECEIVED**

**AUG 12 2014**

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

# Invoice

**Contact:**  
 Samuel Gary Jr & Associates Inc  
**Address/Job Location:**  
 Samuel Gary Jr & Associates Inc  
 1935 LOUIE ROAD  
 HAYS KANSAS 67601

**Reference:**  
 CASEY ET AL 1-22

**Description of Work:**  
 PLUG JOB

DRLG  COMP  W/O  LOE  GG

Account	8200.145
Well/Prospect	
Deck	
AFE	<i>[Signature]</i>
Approval	
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	Yes				
Common-Class A	183	\$ 3,067.94	Yes				
POZ Mix-Standard	122	\$ 859.02	Yes				
Bulk Truck Matl-Material Service Charge	316	\$ 706.35	Yes				
Pump Truck Mileage-Job to Nearest Camp	43	\$ 479.63	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	43	\$ 280.66	Yes				
Premium Gel (Bentonite)	11	\$ 200.15	Yes				
Flo Seal	76	\$ 169.88	Yes				
Dry Hole Plug	1	\$ 62.59	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 6,846.77  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,027.02)

SubTotal for Taxable Items: \$ 5,819.76  
 SubTotal for Non-Taxable Items: \$ -

6.15% Rooks County Sales Tax

Total: \$ 5,819.75  
 Tax: \$ 357.92  
**Amount Due: \$ 6,177.67**  
**Applied Payments:**  
**Balance Due: \$ 6,177.67**

**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

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

No. 529

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

Date	8-4-14	Sec.	22	Twp.	9	Range	16	County	Rooks	State	KS	On Location		Finish	4:00 PM
Lease Casey FT AL								Well No. 1-22		Owner					
Contractor Discovery #4								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 Plug								Charge To Sam Gary Jr.							
Hole Size 7 7/8								T.D. 3785'		Street					
Csg. Drill Pipe								Depth		City State					
Tbg. Size								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Tool								Depth		Cement Amount Ordered 305 6 1/4 4 1/2 bel 1/4 Flow					
Cement Left in Csg.								Shoe Joint							
Meas Line								Displace							
<b>EQUIPMENT</b>								Common 183							
Pumptrk 5 No. Cementer Helper Doug								Poz. Mix 122							
Bulktrk 19 No. Driver Ryan								Gel. 11							
Bulktrk PU No. Driver Brett								Calcium							
<b>JOB SERVICES &amp; REMARKS</b>								Hulls							
Remarks:								Salt							
Rat Hole - 30 sks								Flowseal 76 lb							
Mouse Hole - 15 sks								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
3657								Handling 316							
1st <del>3657</del> w/ 50 sks								Mileage 8 5/8							
2nd 1325 w/ 50 sks								<b>FLOAT EQUIPMENT</b>							
3rd 875 w/ 100 sks								Guide Shoe							
4th 350 w/ 50 sks								Centralizer							
5th 40 w/ 10 sks								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Wood Plug-1							
								Pumptrk Charge plug							
								Mileage 43							
								Tax							
								Discount							
								Total Charge							
X Signature <i>[Signature]</i>															





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

**22-9S-16W Rooks, KS**

1515 Wynkoop Ste. 700  
Denver, CO 80202

**Casey #1-22**

ATTN: Dan Pritchard

Job Ticket: 58385

**DST#: 1**

Test Start: 2014.08.01 @ 04:07:55

## GENERAL INFORMATION:

Formation: **Toronto- B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 08:09:25

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 62

**Interval: 3211.00 ft (KB) To 3258.00 ft (KB) (TVD)**

Reference Elevations: 2081.00 ft (KB)

Total Depth: 3258.00 ft (KB) (TVD)

2073.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

**Serial #: 8673**      **Outside**

Press@RunDepth: psig @ 3212.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.01      End Date: 2014.08.01

Last Calib.: 2014.08.01

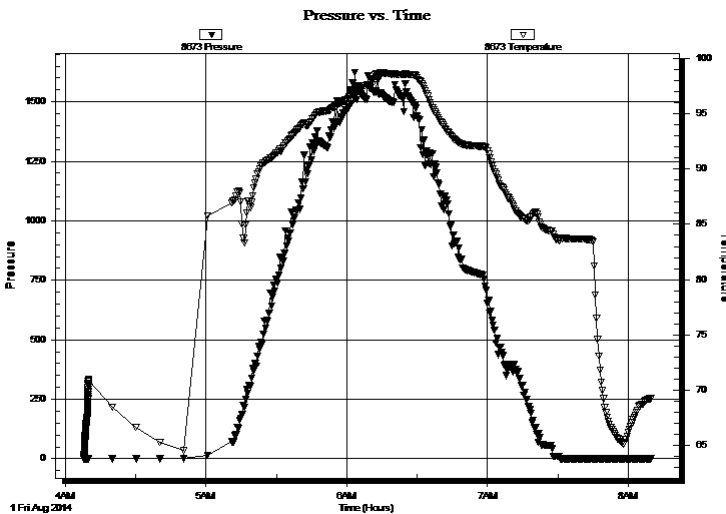
Start Time: 04:07:56      End Time: 08:09:25

Time On Btm:

Time Off Btm:

TEST COMMENT: Packer Failure

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	M	1.78

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

**22-9S-16W Rooks, KS**

1515 Wynkoop Ste. 700  
Denver, CO 80202

**Casey #1-22**

Job Ticket: 58385

**DST#: 1**

ATTN: Dan Pritchard

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## GENERAL INFORMATION:

Formation: **Toronto- B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 08:09:25

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 62

**Interval: 3211.00 ft (KB) To 3258.00 ft (KB) (TVD)**

Total Depth: 3258.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2081.00 ft (KB)

2073.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8651 Fluid**

Press@RunDepth: psig @ 3183.00 ft (KB)

Start Date: 2014.08.01

End Date:

2014.08.01

Start Time: 04:07:53

End Time:

08:09:22

Capacity: 8000.00 psig

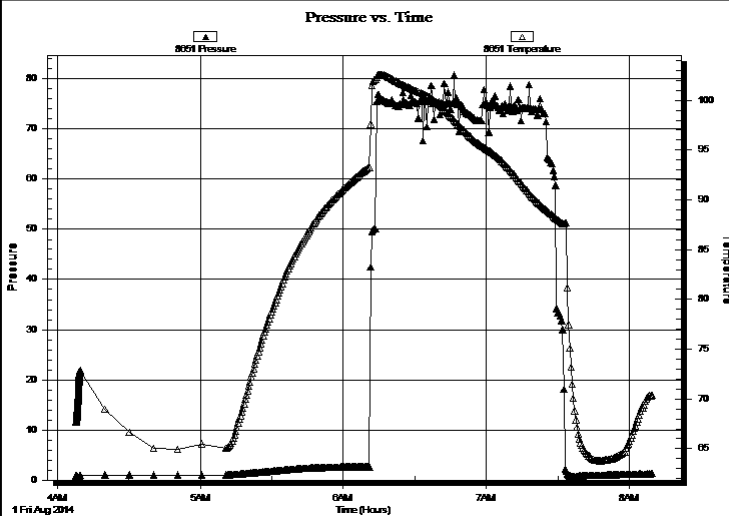
Last Calib.:

2014.08.01

Time On Btm:

Time Off Btm:

TEST COMMENT: Packer Failure



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	M	1.78

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

**22-9S-16W Rooks, KS**

1515 Wynkoop Ste. 700  
Denver, CO 80202

**Casey #1-22**

Job Ticket: 58385

**DST#: 1**

ATTN: Dan Pritchard

Test Start: 2014.08.01 @ 04:07:55

### 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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	M	1.778

Total Length: 150.00 ft      Total Volume: 1.778 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

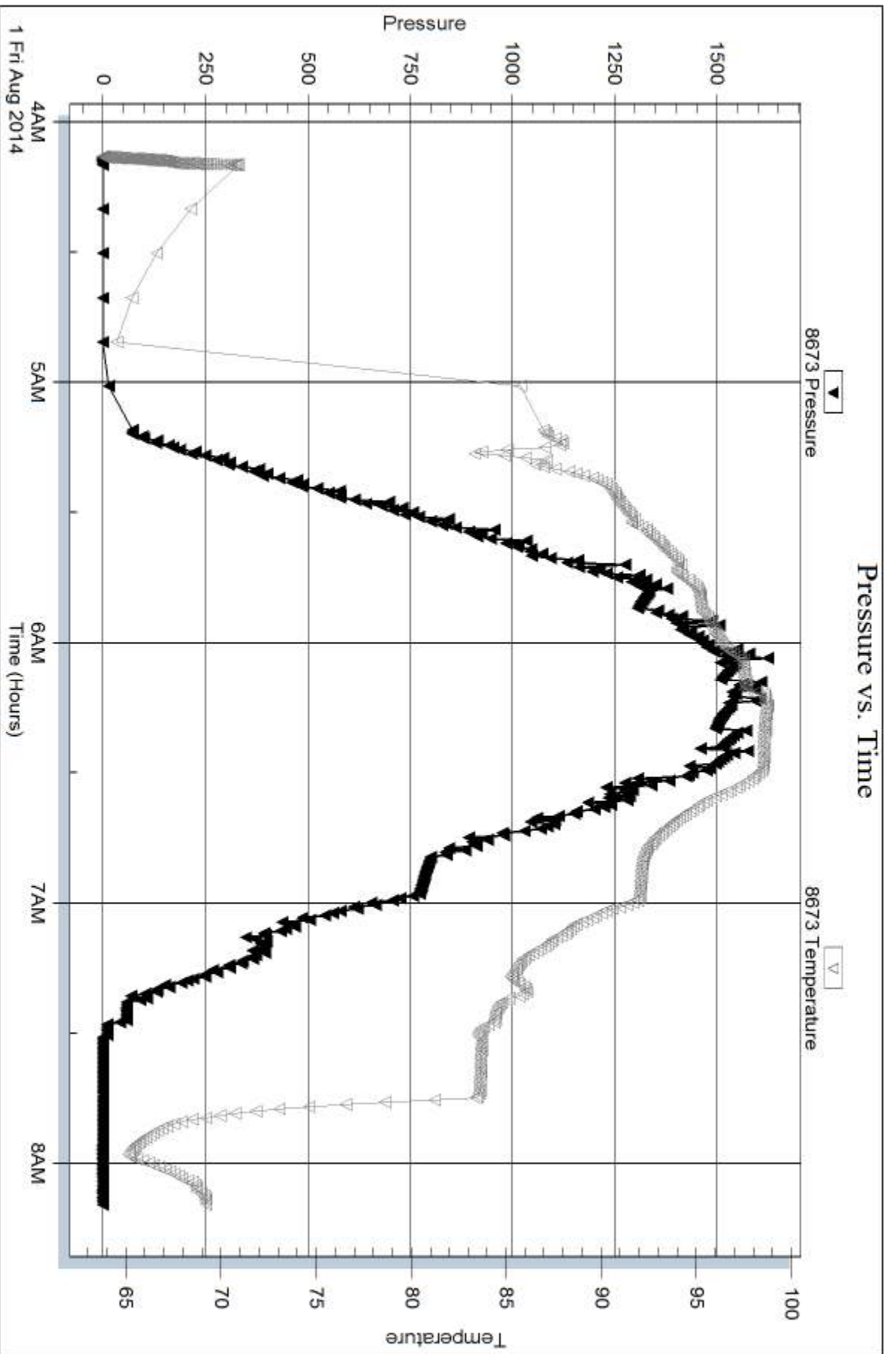
Recovery Comments:

Serial #: 8673

Outside Samuel Gary Jr. & Associates, Inc.

Casey #1-22

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58385

Printed: 2014.08.01 @ 20:22:48

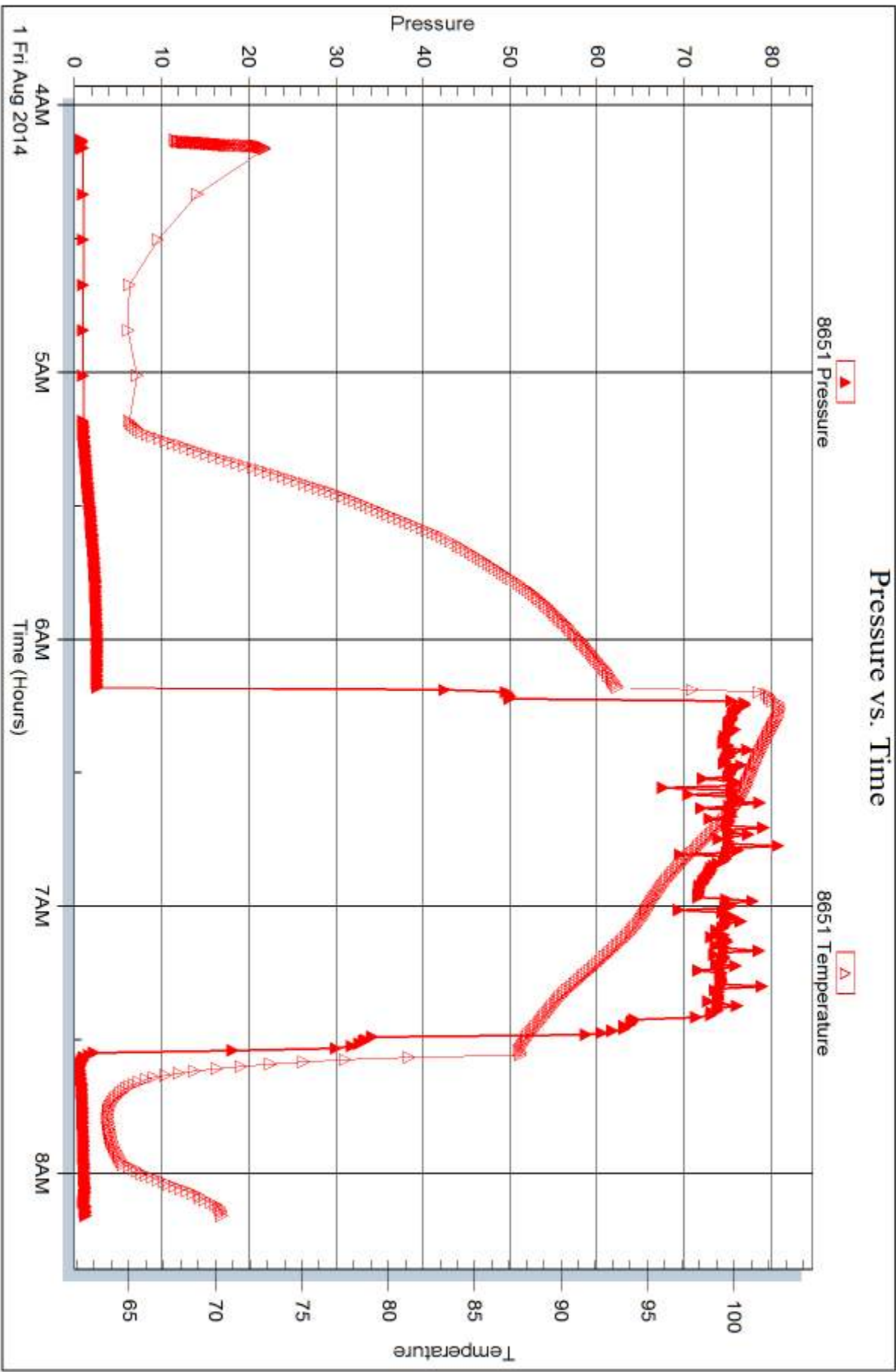
Serial #: 8651

Fluid

Samuel Gary Jr. & Associates, Inc.

Casey #1-22

DST Test Number: 1





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

**22-9S-16W Rooks, KS**

1515 Wynkoop Ste. 700  
Denver, CO 80202

**Casey #1-22**

Job Ticket: 58386

**DST#: 2**

ATTN: Dan Pritchard

Test Start: 2014.08.01 @ 08:31:49

## GENERAL INFORMATION:

Formation: **Toronto- "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:52:19

Time Test Ended: 16:41:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 62

**Interval: 3186.00 ft (KB) To 3258.00 ft (KB) (TVD)**

Reference Elevations: 2081.00 ft (KB)

Total Depth: 3258.00 ft (KB) (TVD)

2073.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8960**

**Inside**

Press@RunDepth: 31.26 psig @ 3187.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.01

End Date:

2014.08.01

Last Calib.:

2014.08.01

Start Time: 08:31:50

End Time:

16:41:49

Time On Btm:

2014.08.01 @ 09:50:19

Time Off Btm:

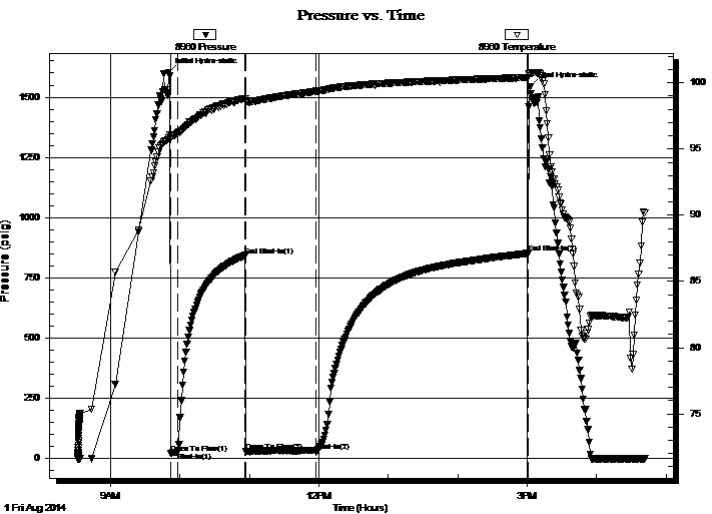
2014.08.01 @ 15:02:19

TEST COMMENT: 005- IF- Slow ly built to 1/2"

060- IS- No blow

060- FF- No blow

180- FS- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1602.82	95.83	Initial Hydro-static
2	21.44	95.78	Open To Flow (1)
8	25.14	96.23	Shut-In(1)
66	843.01	98.82	End Shut-In(1)
67	27.46	98.59	Open To Flow (2)
128	31.26	99.36	Shut-In(2)
311	851.38	100.40	End Shut-In(2)
312	1542.52	100.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	M w/ show of oil	0.15

## Gas Rates

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

\* Recovery from multiple tests



# DRILL STEM TEST REPORT

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Denver, CO 80202

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Reference Elevations: 2081.00 ft (KB)

2073.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8651** Fluid

Press@RunDepth: psig @ 3158.00 ft (KB)

Start Date: 2014.08.01

End Date:

2014.08.01

Start Time: 08:32:26

End Time:

16:42:25

Capacity: 8000.00 psig

Last Calib.: 2014.08.01

Time On Btm:

Time Off Btm:

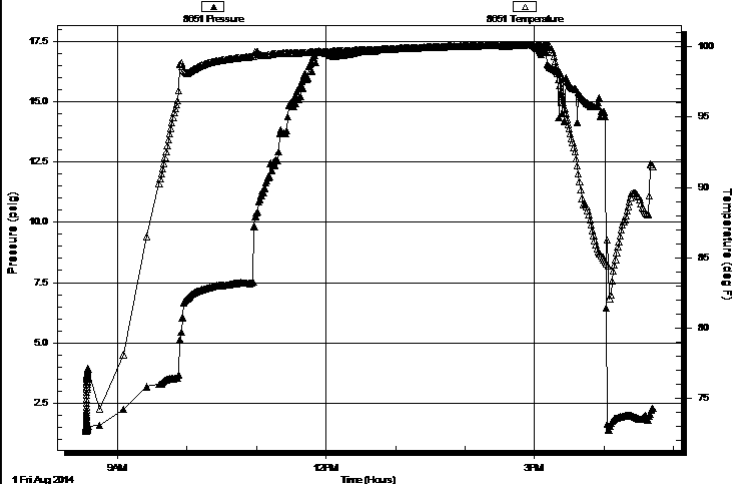
TEST COMMENT: 005- IF- Slow ly built to 1/2"

060- IS- No blow

060- FF- No blow

180- FS- No blow

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
30.00	M w/ show of oil	0.15

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

**22-9S-16W Rooks, KS**

1515 Wynkoop Ste. 700  
Denver, CO 80202

**Casey #1-22**

Job Ticket: 58386

**DST#: 2**

ATTN: Dan Pritchard

Test Start: 2014.08.01 @ 08:31:49

### 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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mw / show of oil	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

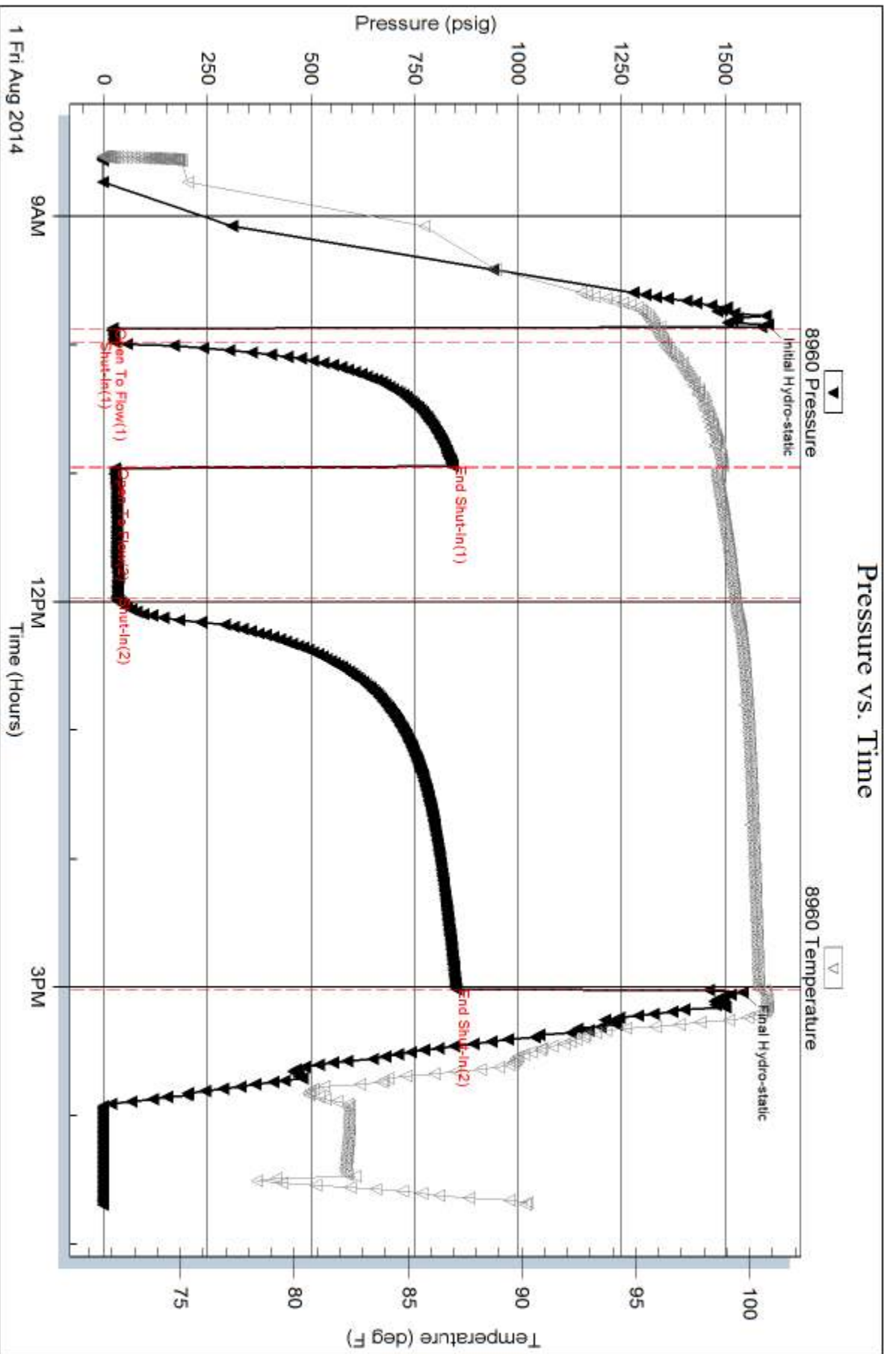
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 100mL O & 1900mL M @ 230PSI





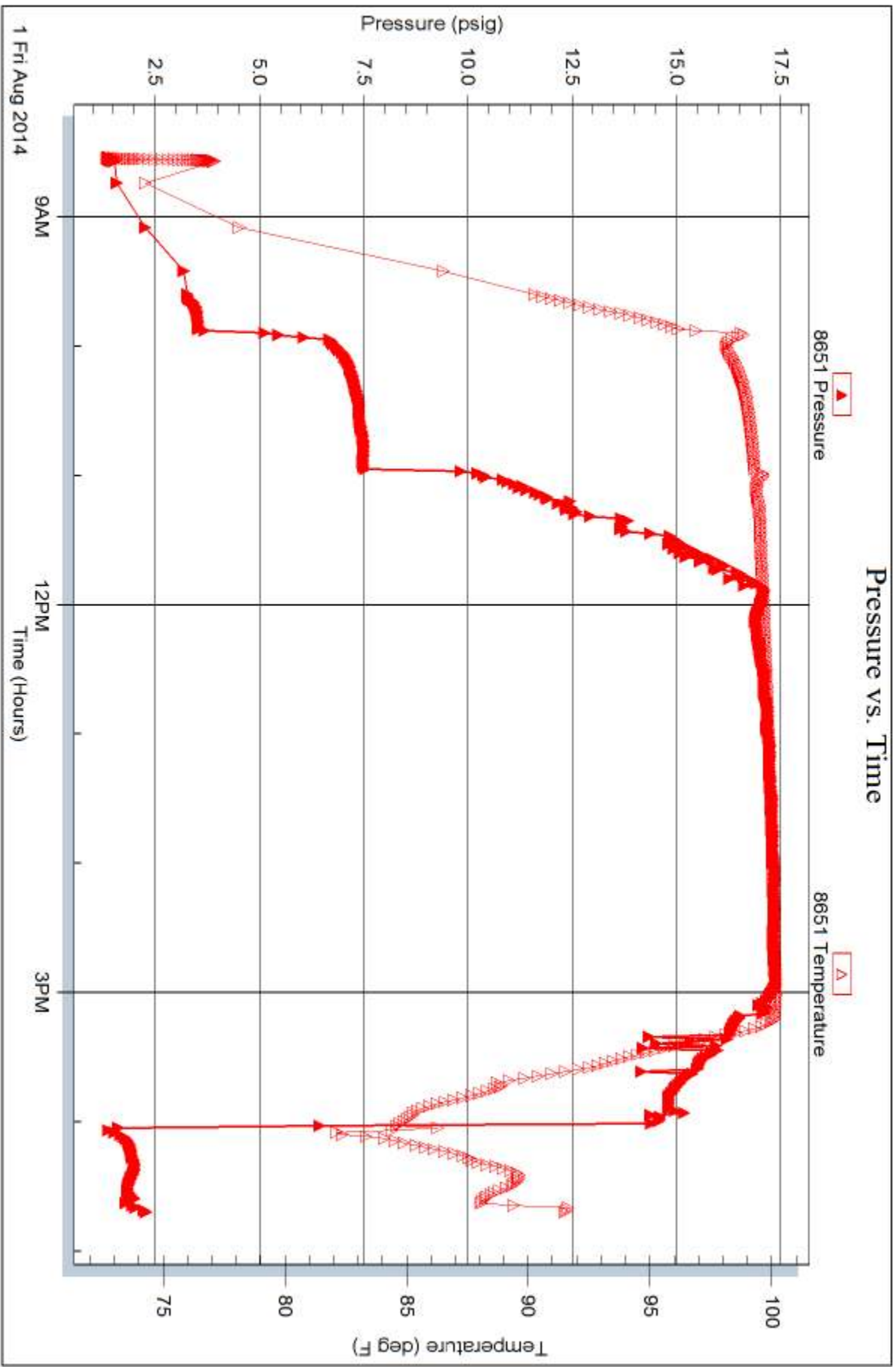
Serial #: 8651

Fluid

Samuel Gary Jr. & Associates, Inc.

Casey #1-22

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58386

Printed: 2014.08.01 @ 20:22:03



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

**22-9S-16W Rooks, KS**

1515 Wynkoop Ste. 700  
Denver, CO 80202

**Casey #1-22**

Job Ticket: 58387

**DST#: 3**

ATTN: Dan Pritchard

Test Start: 2014.08.02 @ 05:09:27

## GENERAL INFORMATION:

Formation: **LKC- "D&F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:20:27

Time Test Ended: 14:09:57

Test Type: Conventional Straddle (Reset)

Tester: Brannan Lonsdale

Unit No: 62

**Interval: 3256.00 ft (KB) To 3320.00 ft (KB) (TVD)**

Reference Elevations: 2081.00 ft (KB)

Total Depth: 3354.00 ft (KB) (TVD)

2073.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8960**

**Inside**

Press@RunDepth: 47.52 psig @ 3257.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.02

End Date:

2014.08.02

Last Calib.:

2014.08.02

Start Time: 05:09:28

End Time:

14:09:57

Time On Btm:

2014.08.02 @ 07:19:27

Time Off Btm:

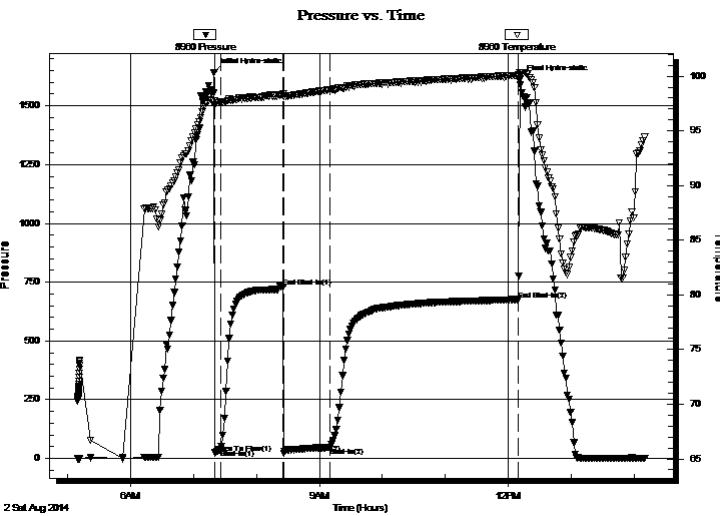
2014.08.02 @ 12:10:57

TEST COMMENT: 005- IF- Slow ly built to 1"

060- IS- No blow

045- FF- BOB 36mins

180- FS- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.34	97.79	Initial Hydro-static
1	23.88	97.41	Open To Flow (1)
6	36.52	97.65	Shut-In(1)
66	728.70	98.37	End Shut-In(1)
67	21.99	98.16	Open To Flow (2)
111	47.52	98.78	Shut-In(2)
290	675.62	100.10	End Shut-In(2)
292	1614.03	100.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCM, 10%O 90%M	0.55
0.00	130' GIP	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, Inc.

**22-9S-16W Rooks, KS**

1515 Wynkoop Ste. 700  
Denver, CO 80202

**Casey #1-22**

Job Ticket: 58387

**DST#: 3**

ATTN: Dan Pritchard

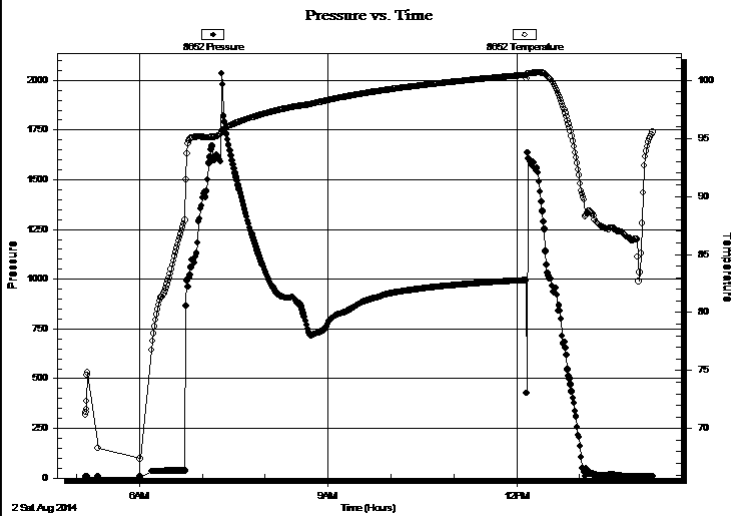
Test Start: 2014.08.02 @ 05:09:27

### GENERAL INFORMATION:

Formation:	<b>LKC- "D&amp;F"</b>		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Straddle (Reset)
Time Tool Opened:	07:20:27		Tester: Brannan Lonsdale
Time Test Ended:	14:09:57		Unit No: 62
<b>Interval:</b>	<b>3256.00 ft (KB) To 3320.00 ft (KB) (TVD)</b>		Reference Elevations: 2081.00 ft (KB)
Total Depth:	3354.00 ft (KB) (TVD)		2073.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Fair	KB to GR/CF: 8.00 ft

<b>Serial #: 8652</b>	<b>Below (Straddle)</b>				
Press@RunDepth:	psig @	3323.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2014.08.02	End Date:	2014.08.02	Last Calib.:	2014.08.02
Start Time:	05:08:46	End Time:	14:09:26	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: 005- IF- Slow ly built to 1"  
060- IS- No blow  
045- FF- BOB 36mins  
180- FS- No blow



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCM, 10%O 90%M	0.55
0.00	130' GIP	0.00

\* Recovery from multiple tests

### Gas Rates

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



# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

**22-9S-16W Rooks, KS**

1515 Wynkoop Ste. 700  
Denver, CO 80202

**Casey #1-22**

Job Ticket: 58387 **DST#: 3**

ATTN: Dan Pritchard

Test Start: 2014.08.02 @ 05:09:27

## GENERAL INFORMATION:

Formation: **LKC- "D&F"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:20:27  
 Time Test Ended: 14:09:57  
 Interval: **3256.00 ft (KB) To 3320.00 ft (KB) (TVD)**  
 Total Depth: 3354.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Reset)  
 Tester: Brannan Lonsdale  
 Unit No: 62  
 Reference Elevations: 2081.00 ft (KB)  
 2073.00 ft (CF)  
 KB to GR/CF: 8.00 ft

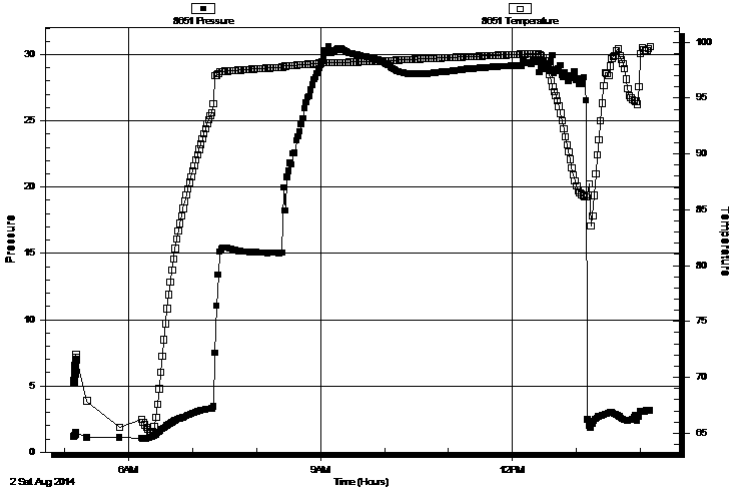
## Serial #: 8651

## Fluid

Press@RunDepth: psig @ 3228.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.08.02 End Date: 2014.08.02 Last Calib.: 2014.08.02  
 Start Time: 05:08:36 End Time: 14:09:05 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 005- IF- Slow ly built to 1"  
 060- IS- No blow  
 045- FF- BOB 36mins  
 180- FS- No blow

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCM, 10%O 90%M	0.55
0.00	130' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

**22-9S-16W Rooks, KS**

1515 Wynkoop Ste. 700  
Denver, CO 80202

**Casey #1-22**

Job Ticket: 58387

**DST#: 3**

ATTN: Dan Pritchard

Test Start: 2014.08.02 @ 05:09:27

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOCM, 10%O 90%M	0.549
0.00	130' GIP	0.000

Total Length: 60.00 ft      Total Volume: 0.549 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

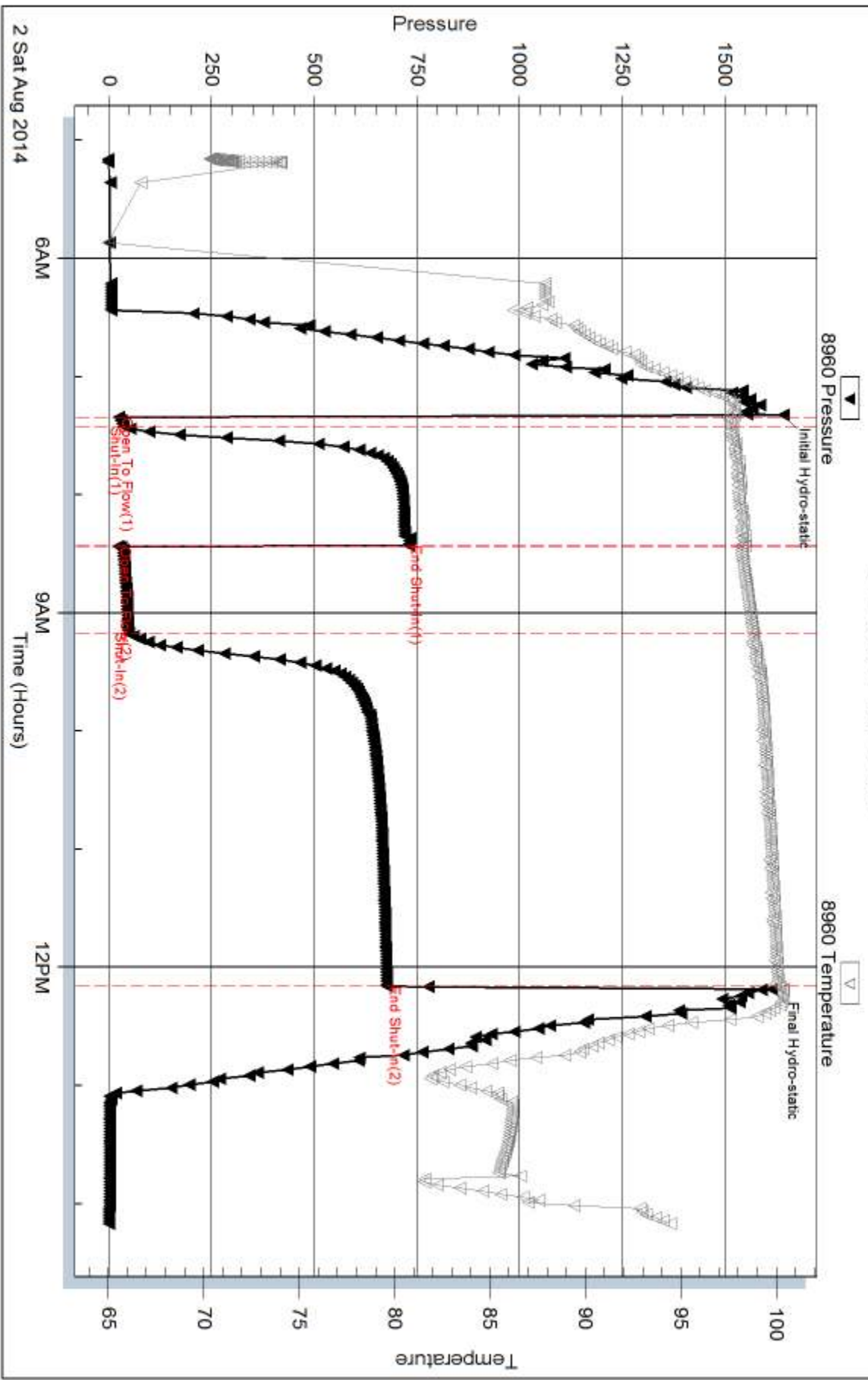
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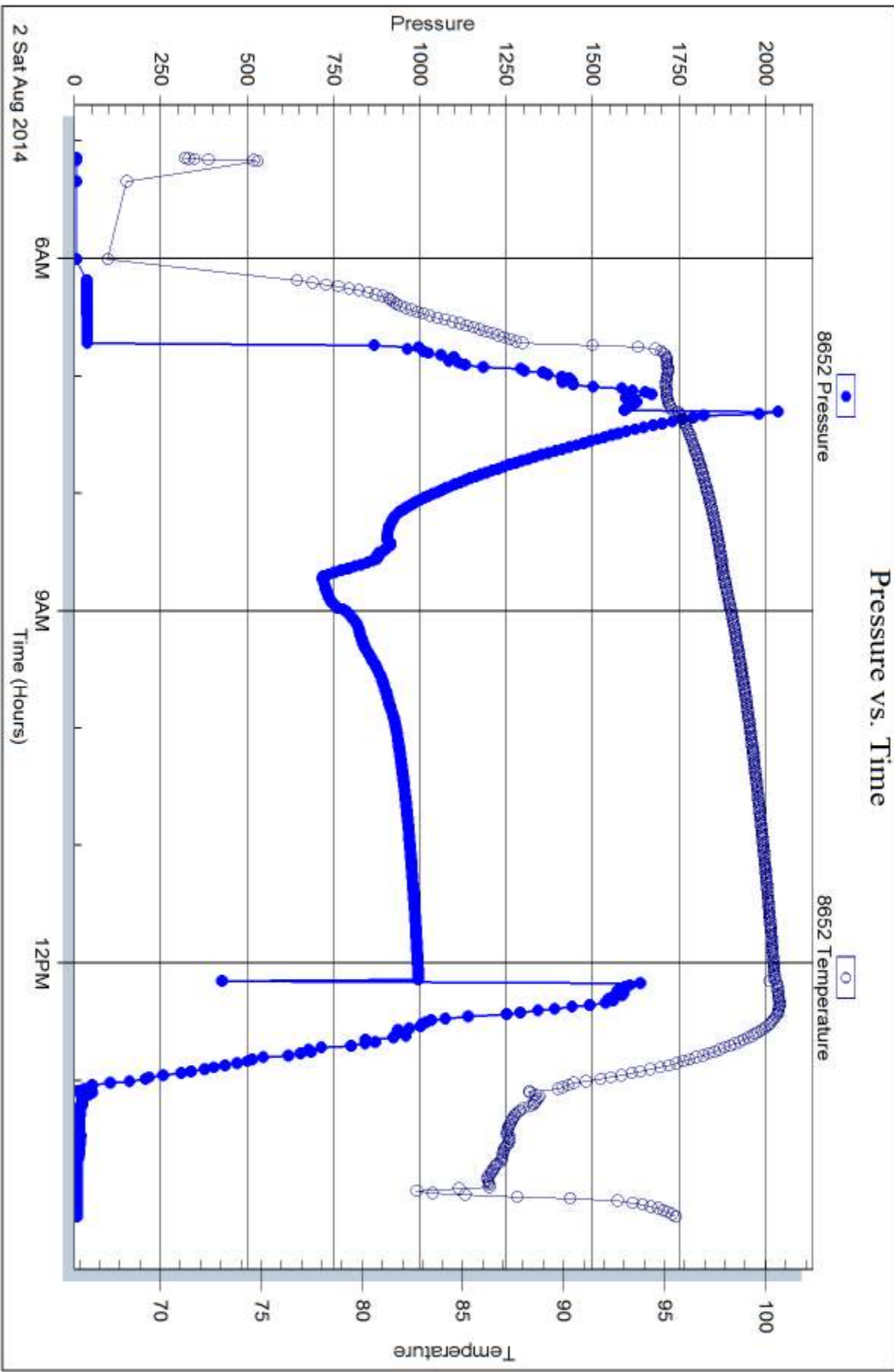
Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 700mL M & 1300mL O @ 285PSI

### Pressure vs. Time







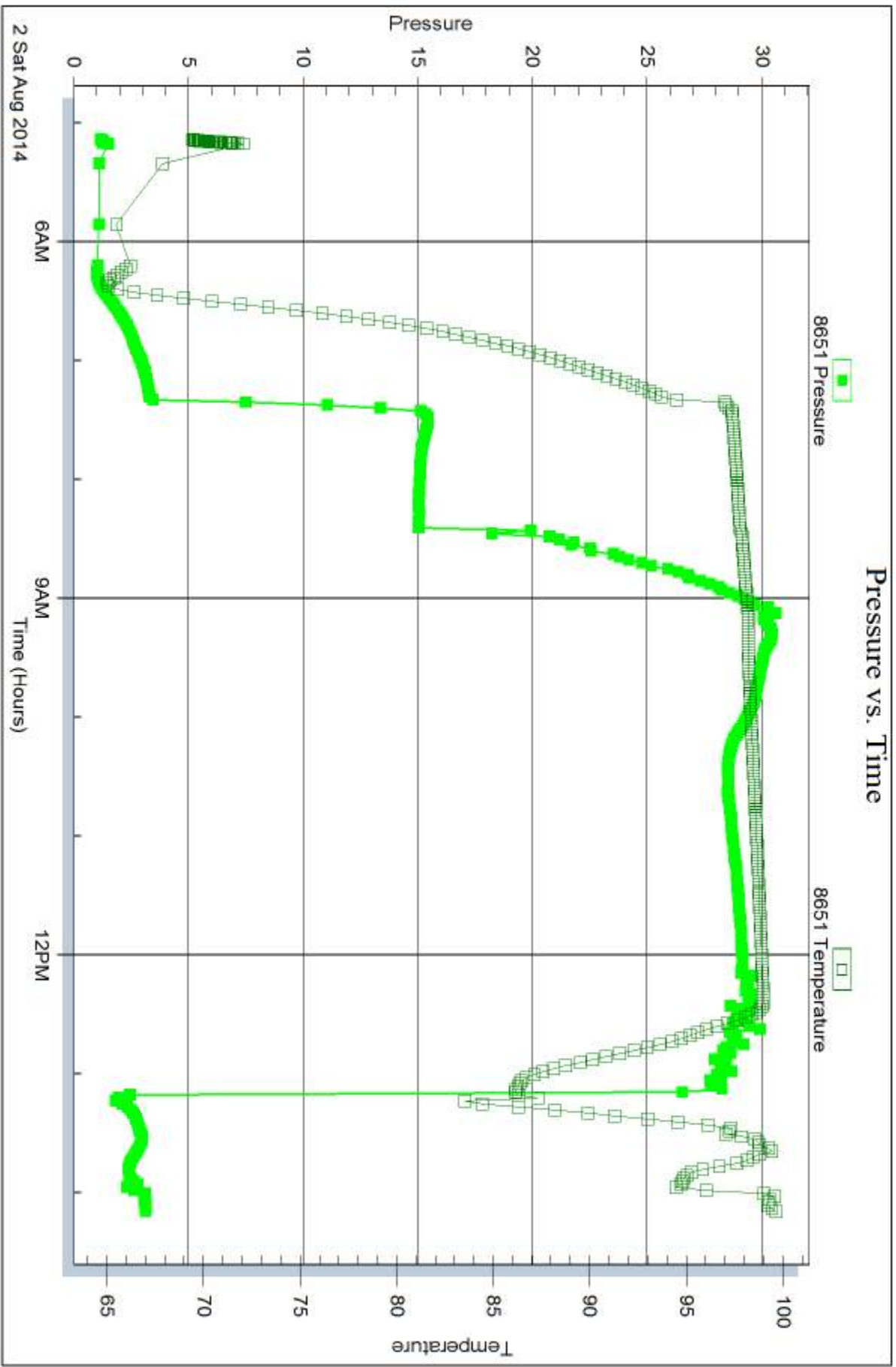
Serial #: 8651

Fluid

Samuel Gary Jr. & Associates, Inc.

Casey #1-22

DST Test Number: 3





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

**Well Name:** Casey et al 1-22  
**Location:** Sec. 22 9S 16W Rooks County, Kansas  
**License Number:** 15-163-24234-0000  
**Spud Date:** July 28, 2014  
**Surface Coordinates:** 2380' FSL & 2320' FEL  
**Region:** Wildcat  
**Drilling Completed:** Aug 3, 2014

**Bottom Hole Coordinates:**  
**Ground Elevation (ft):** 2073'      **K.B. Elevation (ft):** 2081'  
**Logged Interval (ft):** 2900'      **To:** 3783'      **Total Depth (ft):** 3783'  
**Formation:**  
**Type of Drilling Fluid:** Natural Chemical

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

**OPERATOR**

**Company:** Samuel Gary Jr & Associates, inc  
**Address:** 1515 Wynkoop Street, Suite 700  
 Denver, Colorado 80202  
**Geo:** Dan Pritchard

**GEOLOGIST**

**Name:** Aaron Suelter  
**Company:** EARTH TECH OGL, Inc.  
**Address:** PO Box 683  
 Hooker, Okla 73945  
 1-580-652-3924  
 8918 5Th St  
 Great Bend, Ks. 67530  
 1-888-543-8378

	<b>DRILL STEM TEST REPORT</b>																																					
	Samuel Gary Jr. & Associates, Inc. 1515 Wynkoop Ste. 700 Denver, CO 80202 ATTN: Dan Pritchard	22-9S-16W Rooks, KS <b>Casey #1-22</b> Job Ticket: 58386 <b>DST#: 2</b> Test Start: 2014.08.01 @ 08:31:49																																				
<b>GENERAL INFORMATION:</b> Formation: <b>Toronto- "B"</b> Deviated: No Whipstock: ft (KB) Time Tool Opened: 09:52:19 Time Test Ended: 16:41:49 Interval: 3186.00 ft (KB) To 3258.00 ft (KB) (TVD) Total Depth: 3258.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair Test Type: Conventional Bottom Hole (Reset) Tester: Brannan Lonsdale Unit No: 62 Reference Elevations: 2081.00 ft (KB) 2073.00 ft (CF) KB to GR/CF: 8.00 ft																																						
<b>Serial #: 8960 Inside</b> Press@RunDepth: 31.26 psig @ 3187.00 ft (KB) Start Date: 2014.08.01      End Date: 2014.08.01 Start Time: 08:31:50      End Time: 16:41:49 Capacity: 8000.00 psig Last Calib.: 2014.08.01 Time On Btm: 2014.08.01 @ 09:50:19 Time Off Btm: 2014.08.01 @ 15:02:19																																						
<b>TEST COMMENT:</b> 005- F- Slowly built to 1/2" 060- IS- No blow 060- FF- No blow 180- FSI- No blow																																						
	<b>PRESSURE SUMMARY</b>																																					
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<b>Recovery</b>																																						
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Length (ft)	Description	Volume (bbl)																																				
30.00	Mw / show of oil	0.15																																				
	<table border="1"> <thead> <tr> <th>Choke (inches)</th> <th>Pressure (psig)</th> <th>Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																																		
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**TRILOBITE TESTING, INC**

### DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.  
1515 Wynkoop Ste. 700  
Denver, CO 80202  
ATTN: Dan Pritchard

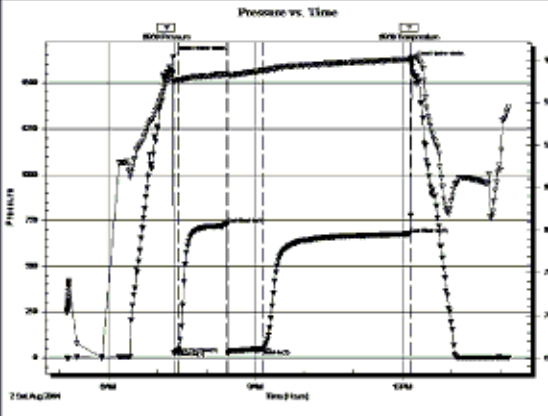
22-9S-16W Rooks, KS  
Casey #1-22  
Job Ticket: 58387      DST#: 3  
Test Start: 2014.08.02 @ 05:09:27

#### GENERAL INFORMATION:

Formation: **LKC- "D&F"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 07:20:27  
Time Test Ended: 14:09:57  
Interval: **3256.00 ft (KB) To 3320.00 ft (KB) (TVD)**  
Total Depth: 3354.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 2081.00 ft (KB)  
2073.00 ft (CF)  
KB to GRVCF: 8.00 ft

**Serial #: 8960**      Inside  
Press@RunDepth: 47.52 psig @ 3257.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.08.02      End Date: 2014.08.02      Last Calib.: 2014.08.02  
Start Time: 05:09:28      End Time: 14:09:57      Time On Btm: 2014.08.02 @ 07:19:27  
Time Off Btm: 2014.08.02 @ 12:10:57

TEST COMMENT: 005- F- Slowly built to 1"  
060- IS- No blow  
045- FF- BCB 36mins  
180- FS- No blow



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.34	97.79	Initial Hydro-static
1	23.88	97.41	Open To Flow (1)
6	36.52	97.65	Shut-in(1)
66	728.70	98.37	End Shut-in(1)
67	21.99	98.16	Open To Flow (2)
111	47.52	98.78	Shut-in(2)
290	675.62	100.10	End Shut-in(2)
292	1614.03	100.35	Final Hydro-static

Length (ft)	Description	Volume (bbl)
60.00	SOCM, 10%O 90%M	0.55
0.00	130' GIP	0.00

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

### ROCK TYPES

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol

- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol

- Shgy
- Sltst
- Ss
- Till
- Carb sh
- Dol
- Dtd
- Gry sh

- Sandylms
- Shale
- Sltstn
- Shlyslts
- Sitysh
- Lms

### ACCESSORIES

- MINERAL**
- Anhy
  - Arggrn
  - Arg
  - Bent
  - Bit
  - Brecfrag
  - Calc
  - Carb
  - Chtdk
  - Chtlt
  - Dol
  - Feldspar
  - Ferrpel
  - Ferr
  - Glau
  - Gyp
  - Hvymn
  - Kaol
  - Marl
  - Minxl
  - Nodule
  - Phos
  - Pyr

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

- 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

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

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- S Subrnd
- a Subang

- A Angular

OIL SHOWS

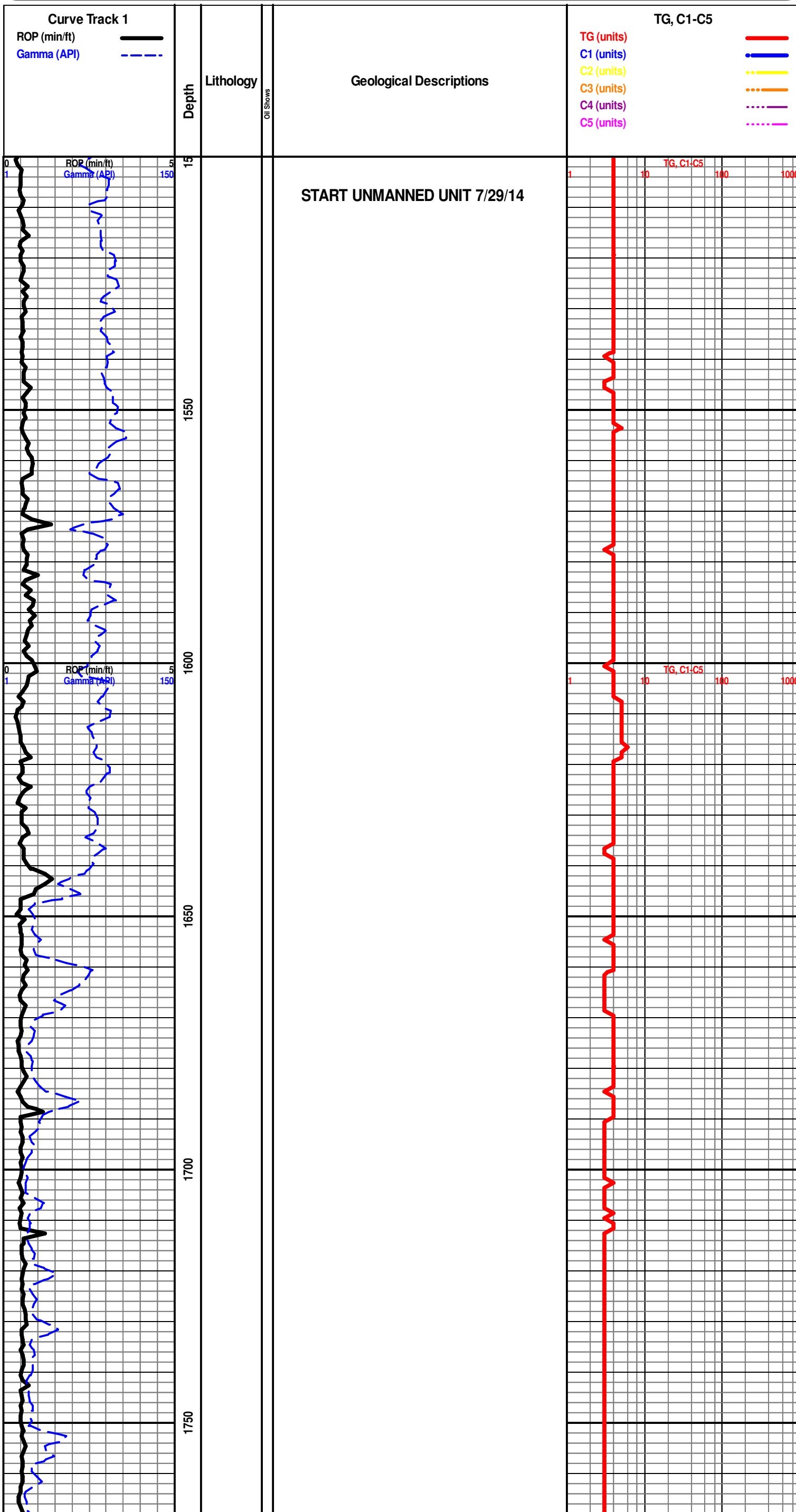
- E Even
- S Spotted
- Q Ques
- D Dead
- G Gas show

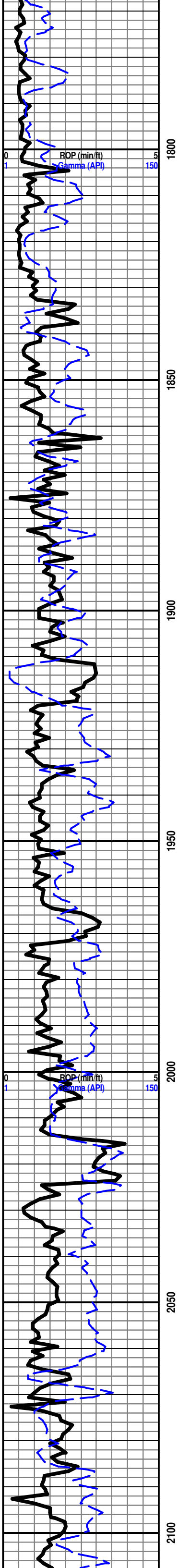
INTERVALS

- Core
- Dst
- Dst

EVENTS

- Rft
- Sidewall





1800

1850

1900

1950

2000

2050

2100

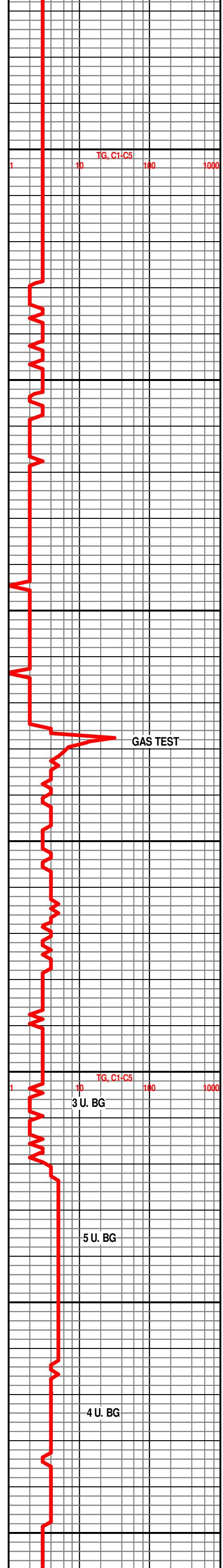
ROP (min/ft)

Gamma (API)

ROP (min/ft)

Gamma (API)

WINFIELD 2074' +7



TG, C1-C5

GAS TEST

3 U. BG

5 U. BG

4 U. BG

1

10

100

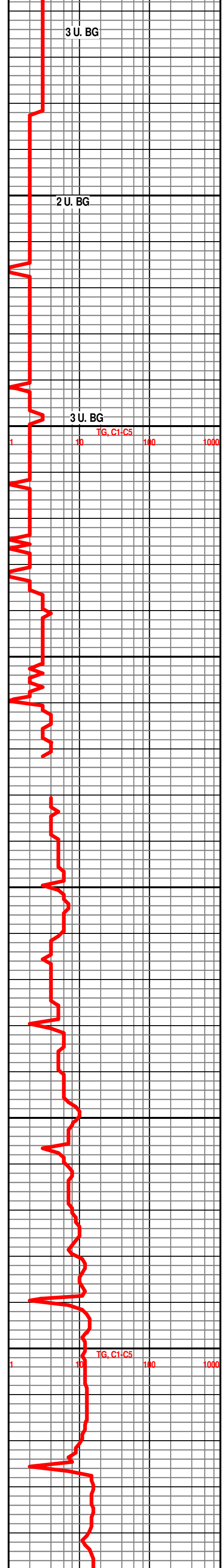
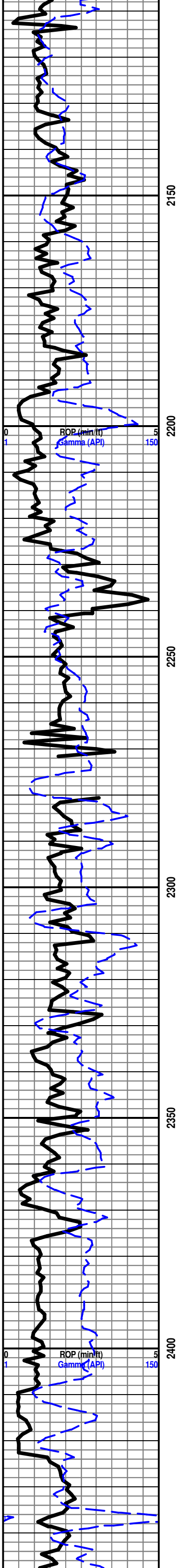
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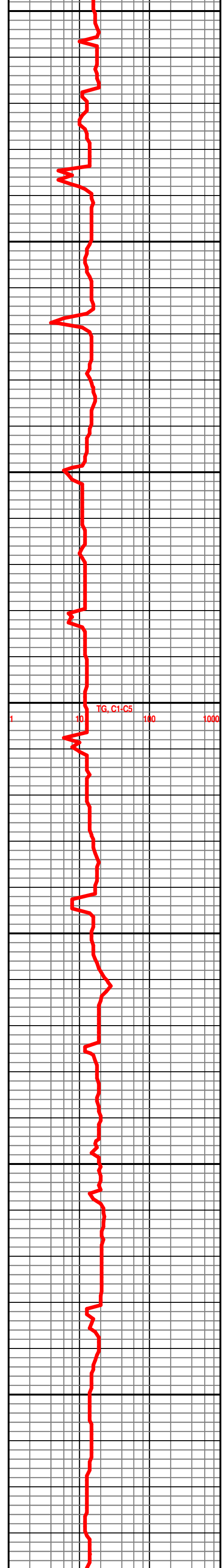
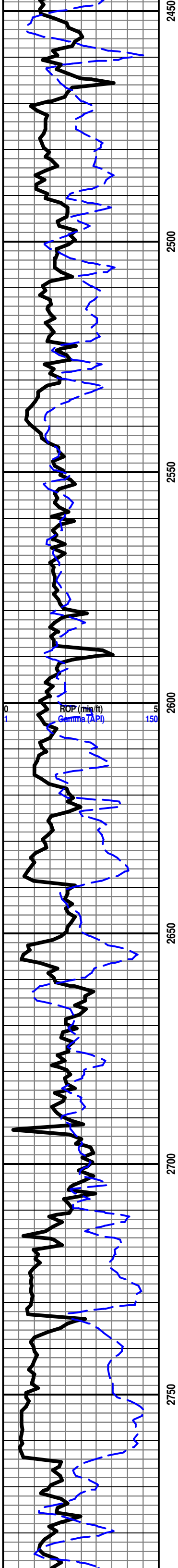
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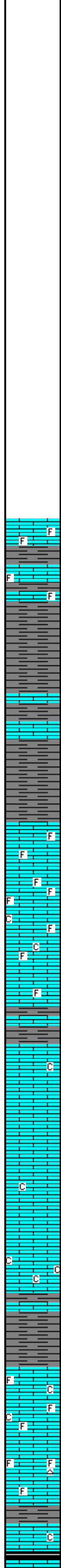
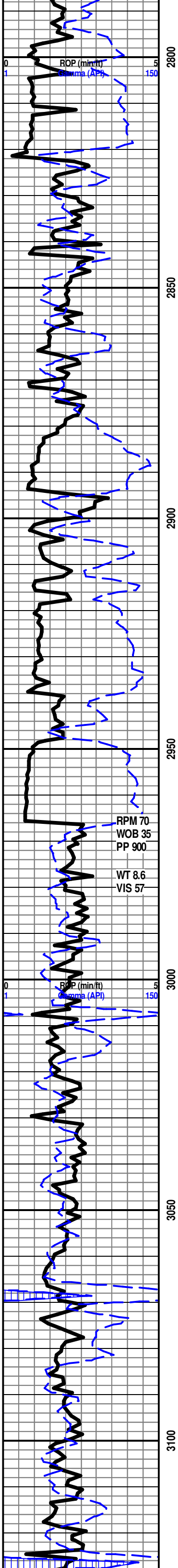
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BRS 2772' -691





**ELMONT 2894' -813'**  
**START 24 HOUR MANNED UNIT 7/29/14**

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

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

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

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

**TOPEKA 2966' -885'**

LS- LT TN TO DK TN, HD DNS TO BRIT, F TO MD RE-XLN MTRX, S-CHLKY, IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- TN TO DK TN, HD DNS TO BRIT IP, V/F TO F XLN MTRX, IMBD FOSS FRG IP, SLI TR SFT WHT CHRT IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, F XLN MTRX, SLI TR IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GY TO DK GY, FRM BLKY, SMTH TXT

LS- TN TO DK TN, HD DNS TO BRIT IP, F XLN RE-XLN MTRX, S-CHLKY IP, SLI TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- TN TO DK TN, HD DNS TO BRIT IP, F XLN RE-XLN MTRX, S-CHLKY IP, TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO DK TN, HD DNS TO BRIT IP, F XLN RE-XLN MTRX, S-CHLKY IP, SLI TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

SH- BRWN LT GY TO DK GY, FRM BLKY, SMTH TXT

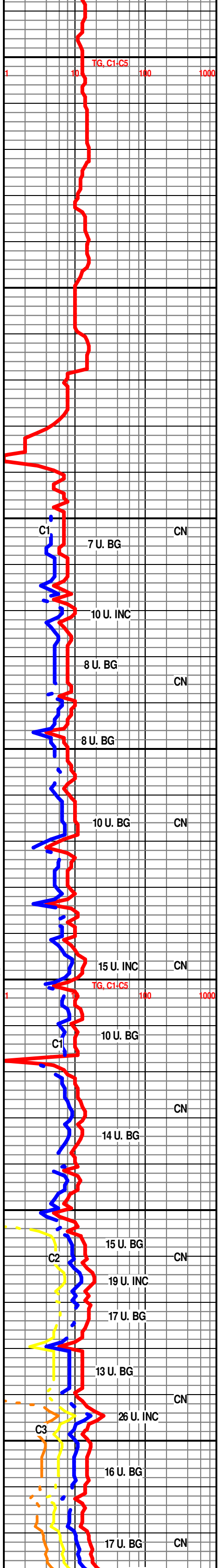
**LE COMPTON 3083' -1002'**

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

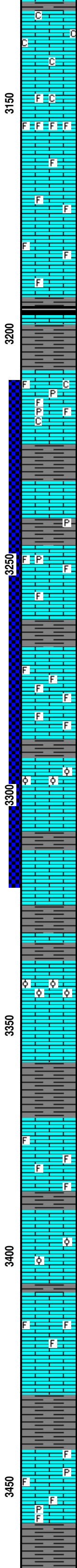
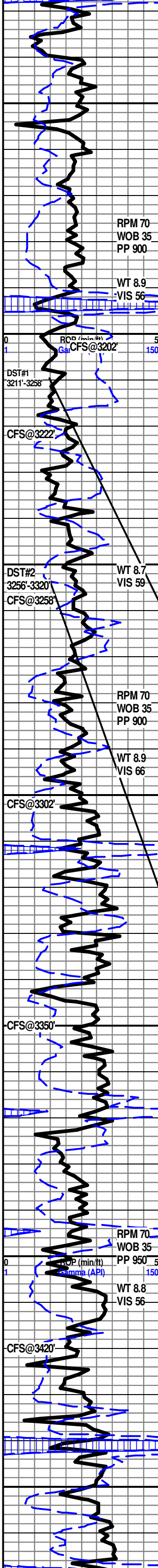
LS- LT TN TO DK TN, HD DNS TO BRIT, F XLN MTRX, S-CHLKY, IMBD FOSS FRG IP, SLI TR TN CHRT IN TRAY, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- LT GY TO GY, FRM BLKY TO SFT GMMY, SMTH TXT

LS- GY CRM TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN, S-CHLKY IP, SLI TR SFT WHT CHLK IN TRAY, NO VIS FLO,







LS- CRM TN TO DK TN, HD DNS TO BRIT IP, V/F TO F XLN, S-CHLKY, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TN TO DK TN, HD DNS TO BRIT IP, V/F TO F XLN, S-CHLKY, SLI TR IMBD FOSS FRG IP TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

3154'-3156' LS- CRM TO LT TN W/ TN OIL STN IN 65%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, ABDT IMBD FOSS FRG IP, DUL YEL GLD FLO IN 60%, FR TO GD INTR FOSS POR IN 4%, FR TO GD VUG POR IN 2%, V/GD FLSH CUT IN 65%, V/GD MLKY BLU SLW STRM IN 65%, DK TN LCH ON DISH, GD OIL ODOR

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

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

**HEEBNER 3192' -1111'**  
SH- BLCK, SFT, CARB

SH- LT GY TO GY, SFT GMMY TO FRM BLKY, SMTH TXT

3213'-3214' LS- CRM TO TN W/ TN OIL STN IN 70%, HD DNS TO BRIT IP, V/F TO F XLN, S-CHLKY IP, IMBD FOSS FRG IP, PYR IN TRAY, SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 70%, PR INTR FOSS POR IN 2%, PR TO FR VUG POR IN 1%, PR TO FR FLSH CUT IN 50%, FR TO GD SLW STRM IN 70%, NO LCH ON DISH

SH- BRN GY TO DK GY, FRM BLKY TO SFT GMMY, SMTH TXT

**LANSING 3232' -1151'**  
SH- BRWN RED TO GY, FRM BLKY, SMTH TXT, TR IMBD PYR IP

3235'-3236' (ONE ROCK) LS- OFF WHT TO CRM W/ TN OIL STN IN 50%, HD DNS TO BRIT, F XLN CHLKY MTRX, PYR IN TRAY, DUL YEL GLD FLO IN 40%, PR INTR XLN POR IN 2%, V/WK FLSH CUT, PR TO FR SLW STRM IN 50%, NO LCH ON DISH

3249'-3251' LS- LT TN TO TN W/ LT TN OIL STN IN 60%, HD DNS, V/F TO F XLN MTRX, SLI TR IMBD FOSS FRG IP, BRT YEL GLD FLO IN 80%, PR INTR FOSS POR IN 2%, PR TO FR VUG POR IN 2%, FR FLSH CUT IN 80%, FR SLW STRM IN 80%, TN LCH ON DISH, FR OIL ODOR

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

**LANSING "D" 3269' -1188'**  
3276'-3278' LS- LT TO TN W/ TN OIL STN IN 85%, HD DNS TO BRIT IP, V/F TO F XLN, ABDT IMBD FOSS FRG IP, BRT YEL GLD FLO IN 50%, DUL YEL GLD FLO IN 40%, FR INTR FOSS POR IN 4%, PR TO FR VUG POR IN 2%, FR FLSH CUT IN 90%, FR TO GD SLW STRM IN 90%, DK TN LCH ON DISH, FR OIL ODOR

3296'-3297' LS- CRM TO LT TN W/ TN OIL STN IN 70%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD OOL THRU, TR OOLMLD, DUL YEL GLD FLO IN 30%, BRT YEL GLD FLO IN 50%, PR TO FR INTR OOL POR IN 5%, PR OOLMLD POR N 1%, FR FLSH CUT IN 80%, PR TO FR SLW STRM IN 80%, TN LCH ON DISH

**LANSING "F" 3312' -1231'**  
3316'-3318' LS- LT TN TO TN W/ TN TO DK TN OIL STN IN 75%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, DUL YEL GLD FLO IN 50%, BRT YEL GLD FLO IN 25%, PR PP POR IN 2%, PR INTR XLN POR IN 2%, WK FLSH CUT IN 75%, FR TO GD SLW STRM IN 75%, TN LCH ON DISH

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

3341'-3345' LS- OFF WHT TO CRM W/ TN OIL STN IN 60%, HD DNS TO BRIT, F XLN MTRX, S-CHLKY, ABDT IMBD OOL THRU, OOLMLD IP, DUL YEL GLD FLO IN 55%, BRT YEL GLD FLO IN 5%, PR INTR OOL POR IN 2%, FR OOLMLD POR IN 3%, PR TO FR VUG POR IN 1%, FR FLSH CUT IN 60%, FR TO GD SLW STRM IN 60%, TN LCH ON DISH

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

**LANSING "H" 3370' -1291'**  
3373'-3374' LS- CRM TO LT TN W/ TN OIL STN IN 40%, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, IMBD FOSS FRG THRU, DUL YEL GLD FLO IN 40%, PR INTR FOSS POR IN 2%, FR FLSH CUT IN 40%, FR SLW STRM IN 40%, LT TN LCH ON DISH

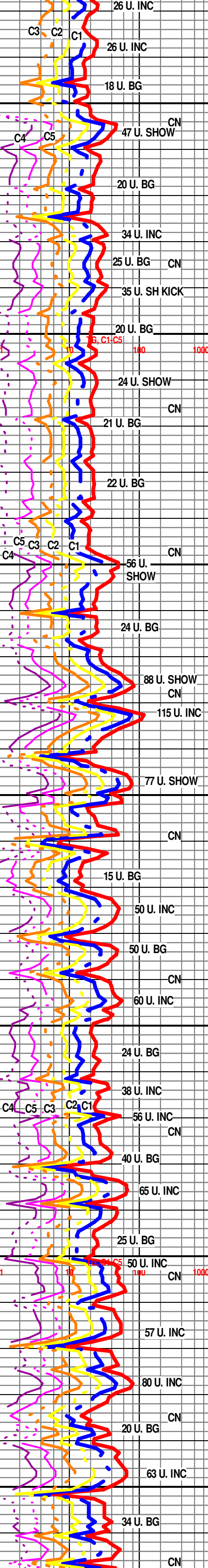
3398'-3400' LS- OFF WHT TO TN W/ DK TN OIL STN IN 50%, HD DNS, F XLN MTRX, IMBD OOL IP, DUL YEL GLD FLO IN 50%, FR INTR OOL POR IN 2%, PR TO FR VUG POR IN 2%, GD FLSH CUT IN 50%, GD MLKY BLU SLW STRM IN 50%, TN LCH ON DISH, SLI TR OIL DROPLETS IN TRAY

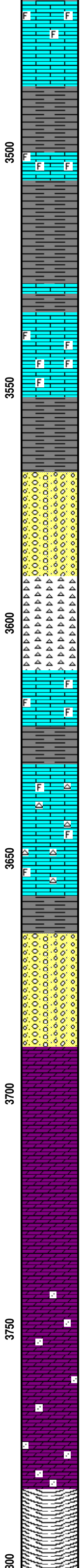
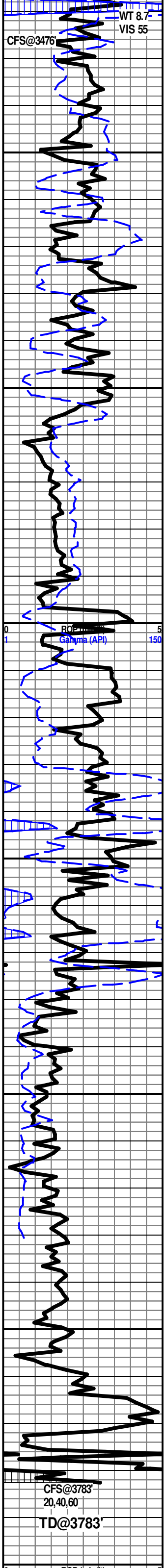
3414'-3416' LS- OFF WHT TO CRM W/ DK TN OIL STN IN 65%, HD DNS TO BRIT IP, F XLN RE-XLN MTRX, S-CHLKY IP, SCAT IMBD FOSS FRG IP, DUL YEL GLD FLO IN 65%, PP POR IN 4%, PR INTR XLN/FOSS POR IN 2%, PR FLSH CUT IN 65%, PR TO FR SLW STRM IN 65%, TN LCH ON DISH

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

3443'-3445' LS- TN TO DK TN W/ TN OIL STN IN 35%, HD DNS TO BRIT IP, V/F TO F XLN RE-XLN MTRX, SCAT IMBD FOSS FRG IP, SLI TR IMBD PYR IP, DUL YEL GLD FLO IN 35%, PR INTR FOSS POR IN 2%, PR TO FR VUG POR IN 1%, WK FLSH CUT, WK TO PR SLW STRM IN 20% STRNG SULFUR ODOR

SH- GRN TO GY, FRM BLKY, SMTH TXT





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

**BKC 3487' -1406'**

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

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

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

SH- BRWN TO GY, FRM SPLNTY, SMTH TXT

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

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

CONG- LS- LT TN TO TN, HD DNS TO BRIT IP, F SLN MTRX, SCAT IMBD FOSS FRG IP, SH- BRWN RED TO GY, FRM TO SFT GMMY, SMTH TXT, CHRT- RED BRWN TN TO CRM

CHRT- OFF WHT TN ORNG TO BRWN MOTT IP, HD DNS, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT CRM TO LT TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

LS- LT TN TO TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, TR IMBD FOSS FRG IP, TN CRM TO ORNG CHRT IN TRAY NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- BWN TO GY, FRM BLKY, SMTH TXH, GRN TO DK GRN CLAY IN TRAY

CONG- LS- OFF WHT TO CRM, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, SH- GRN BRWN TO GY, FRM BLKY, SMTH TXT, DK GRN CLAY, CHRT OFF WHT CRM TN TO PNK

**ARBUCKLE 3690' -1619'**

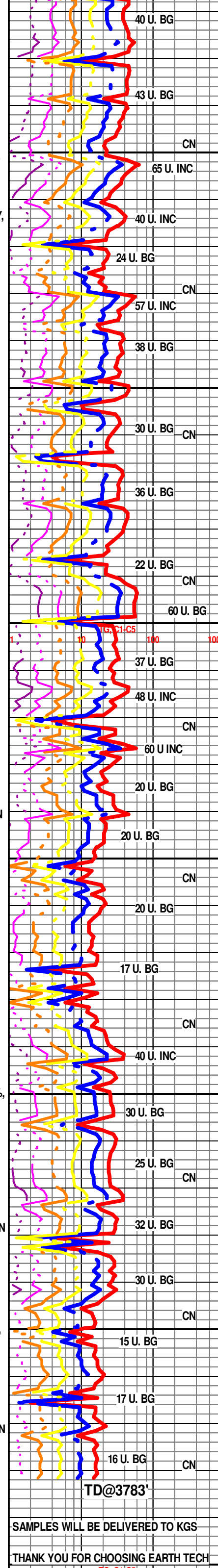
DOLO- CRM TO TN, V/ HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO S-RND DOLO GRNS THRU, NO VIS FLO, PR INTR XLN POR IN 7%, GD VUG POR IN 3%, NO VIS SHOW

DOLO- OFF WHT CRM TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-RND TO ANG DOLO GRNS THRU, NO VIS FLO, PR TO FR INTR GRN POR IN 10%, FR TO GD VUG POR IN 2%, NO VIS SHOW

DOLO- LT TN TO DK TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-RND TO ANG DOLO GRNS THRU, NO VIS FLO, PR TO FR INTR GRN POR IN 7%, FR VUG POR IN 1%, NO VIS SHOW

DOLO- TN TO DK TN, DHD SN TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO ANG DOLO GRNS THRU, SCAT LRG S-RND QRTZ XLS IN TRAY, NO VIS FLO, PR TO FR INTR GRN POR IN 10%, GD VUG POR IN 2%, NO VIS SHOW

DOLO- CRM LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-RND TO S-ANG DOLO GRNS THRU, SCAT LRG S-RND QRTZ XLS IN TRAY, NO VIS FLO, PR INTR GRN POR IN 5%, NO VIS SHOW



R.T.D. @ 8:00 PM 8/3/14  
CFS 1 HOUR  
SHORT TRIP  
CTCH 1.5 HOUR  
DROP SURVEY  
TOFL  
WEATHERED FOR LIBERAL

