



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1073957
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

1073957

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

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size: _____ Set At: _____ Packer At: _____	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	--	---

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	HADDON 3-5
Doc ID	1073957

All Electric Logs Run

ARRAY IND
DEN-NEUT
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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

February 13, 2012

THOMAS G. FERTAL
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-159-22663-00-00
HADDON 3-5
NE/4 Sec.05-19S-10W
Rice County, Kansas

Dear Production Department:

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

Should you have any questions or need additional information regarding subject well, please contact our office at 303-831-4673.

Respectfully,
THOMAS G. FERTAL



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: 1/26/2011
 Invoice # 002

P.O.#:
 Due Date: 2/25/2011
 Division: Russell

Invoice

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

DRLG COMP W/O LOE GG

Account	8000-138
Well/Prospect	HADDON 3-5
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Reference:
 HADDEN 3-5

Description of Work:
 SURFACE JOB

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No				
Common-Class A	180	\$ 2,318.00	Yes				
Pump Truck Mileage-Job to Nearest Camp	39	\$ 410.84	No				
Bulk Truck Matl-Material Service Charge	189	\$ 399.00	No				
Calcium Chloride	6	\$ 238.51	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	39	\$ 240.41	No				
Premium Gel (Bentonite)	3	\$ 51.55	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$	4,622.17
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(693.33)
<hr/>			
	SubTotal for Taxable Items:	\$	2,216.86
	SubTotal for Non-Taxable Items:	\$	1,711.99
<hr/>			
	Total:	\$	3,928.85
	Tax:	\$	161.83
<hr/>			
	Amount Due:	\$	4,090.68
	Applied Payments:		
	Balance Due:	\$	4,090.68

7.30% Rice 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
Cell 785-324-1041

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

No. 002

Date	10-21-11	Sec.		Range		County	Rice	State	Ks	On Location		Finish	11:30p.m.
Lease	Hadden	Well No.	3-5		Location Clafin E to 4 Rd 65 1/2 W 2.5								
Contractor	Discovery 2				Owner Winto								
Type Job	Surface				To Quality Oilwell Cementing, Inc.								
Hole Size	25-250 12 1/4 390				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Csg.					Charge To Sam Bary Jr & Assoc								
Tbg. Size					Street								
Tool					City State								
Cement Left in Csg.	15'				The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line					Shoe Joint Displace 23.85 Cement Amount Ordered 180 com 3 Y 2								
EQUIPMENT													
Pumptrk	5	No.	Cementer	Dave		Common							
			Helper										
Bulktrk	8	No.	Driver	Doug		Poz. Mix							
			Driver										
Bulktrk	pu	No.	Driver	Craig		Gel.							
			Driver										
JOB SERVICES & REMARKS													
Remarks:					Calcium								
Rat Hole					Hulls								
Mouse Hole					Salt								
Centralizers					Flowseal								
Baskets					Kol-Seal								
O/V or Port Collar					Mud CLR 48								
					CFL-117 or CD110 CAF 38								
					Sand								
					Handling								
					Mileage								
FLOAT EQUIPMENT													
					Guide Shoe								
					Centralizer								
					Baskets								
					AFU Inserts								
					Float Shoe								
					Latch Down								
					Pumptrk-Charge								
					Mileage								
					Tax								
					Discount								
					Total Charge								

Mark's
Trust Initial



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: 11/2/2011
 Invoice # 158
 P.O.#:
 Due Date: 12/2/2011
 Division: Russell

Invoice

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

DRLG COMP W/O LOE GG

Account	8200-145
Well/Prospect	HADDON 3-5
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Reference:
 HADDEN 3-5

Description of Work:
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 977.42	Yes				
Common-Class A	114	\$ 1,488.74	Yes				
Bulk Truck Matl-Material Service Charge	197	\$ 421.75	Yes				
Pump Truck Mileage-Job to Nearest Camp	39	\$ 416.63	Yes				
POZ Mix-Standard	76	\$ 374.22	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	39	\$ 243.80	Yes				
Premium Gel (Bentonite)	7	\$ 121.99	Yes				
Flo Seal	47	\$ 100.62	Yes				

Invoice Terms:
 Net 30

SubTotal: \$ 4,145.17
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (621.78)

SubTotal for Taxable Items:	\$ 3,523.39
SubTotal for Non-Taxable Items:	\$ -
Total:	\$ 3,523.39
Tax:	\$ 257.21

7.30% Rice County Sales Tax

Amount Due: \$ 3,780.60
Applied Payments:
Balance Due: \$ 3,780.60

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
Cell 785-324-1041

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

No. 158

Date <i>10-28-11</i>	Sec. <i>5</i>	Twp. <i>19</i>	Range <i>11</i>	County <i>Rice</i>	State <i>Ks</i>	On Location	Finish <i>5:15 Am</i>	
Lease <i>Plum</i>	Well No. <i>1120</i>	Location <i>Clayton, Ks - 6 E to 4th Rd, 6 S, 1 W</i>						
Contractor <i>Discovery #2</i>				Owner <i>25</i>				
Type Job <i>Plug</i>	To Quality Oilwell Cementing, Inc.						You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Hole Size <i>7 7/8"</i>	T.D. <i>3440'</i>	Charge To <i>Sam Gary Jr. f Assoc.</i>						
Csg.	Depth	Street					City	State
Tbg. Size <i>4 1/2" D.P.</i>	Depth <i>3353'</i>	Cement Left in Csg.						
Tool	Depth	Shoe Joint					The above was done to satisfaction and supervision of owner agent or contractor.	
Meas Line	Displace <i>1120' / mud</i>	Cement Amount Ordered <i>190 sx 60/40 4% Gel 1/4#F.S.</i>						

EQUIPMENT

Pumptrk. <i>1</i>	No.	Cement Helper <i>Cisco</i>	Common <i>114</i>
Bulktrk	No.	Driver <i>Brian S.</i>	Poz. Mix <i>76</i>
Bulktrk <i>P.U.</i>	No.	Driver <i>Rick</i>	Gel. <i>7</i>

Lease name JOB SERVICES & REMARKS

Remarks: <i>Hadden # 3-5</i>	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal <i>47#</i>
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
<i>3353' - 35 SX</i>	CFL-117 or CD110 CAF 38
<i>1250' - 35 SX</i>	Sand
<i>900' - 35 SX</i>	Handling <i>197</i>
<i>440' - 35 SX</i>	Mileage

FLOAT EQUIPMENT

<i>60' - 25 SX</i>	Guide Shoe
<i>Rathole - 15 SX</i>	Centralizer
<i>Mousehole - 10 SX</i>	Baskets
<i>190 SX 60/40 4% Gel 1/4#F.S.</i>	AFU Inserts
<i>Cement did Circulate.</i>	Float Shoe
	Latch Down

Pumptrk Charge ~~*114*~~ *plugging plug*
Mileage ~~*139*~~

X Signature <i>Sam With</i>	Tax
	Discount
	Total Charge



DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste # 700
Denver, CO 80202

ATTN: John Rakowski

Haddon #3-5

5/19S/10W-Rice

Start Date: 2011.10.27 @ 14:24:10

End Date: 2011.10.27 @ 21:32:10

Job Ticket #: 45269 DST #: 1

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

Printed: 2011.11.07 @ 14:52:59

Samuel Gary, Jr. & Associates
5/19S/10W-Rice
Haddon #3-5
DST # 1
Lansing J&K
2011.10.27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary, Jr. & Associates

5/19S/10W-Rice

1515 Wynkoop St. Ste # 700
Denver, CO 80202

Haddon #3-5

Job Ticket: 45269

DST#: 1

ATTN: John Rakowski

Test Start: 2011.10.27 @ 14:24:10

GENERAL INFORMATION:

Formation: **Lansing J&K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:14:00

Time Test Ended: 21:32:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3165.00 ft (KB) To 3210.00 ft (KB) (TVD)

Reference Elevations: 1752.00 ft (KB)

Total Depth: 3440.00 ft (KB) (TVD)

1744.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 23.10 psig @ 3168.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.10.27 End Date: 2011.10.27

Last Calib.: 2011.10.27

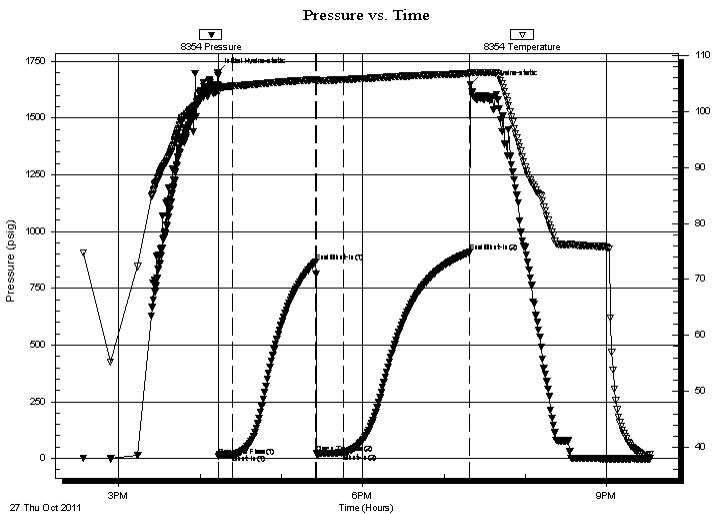
Start Time: 14:34:10 End Time: 21:32:10

Time On Btm: 2011.10.27 @ 16:13:10

Time Off Btm: 2011.10.27 @ 19:19:40

TEST COMMENT: IF-Few initial bubbles. No blow.
ISI-No Return.
FF-Surging w eak surface blow @ 3 minutes.
FSI-No Return. Times- 10-60-20-90

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.39	104.52	Initial Hydro-static
1	9.92	103.52	Open To Flow (1)
11	18.11	104.55	Shut-In(1)
72	865.28	105.68	End Shut-In(1)
73	21.19	105.51	Open To Flow (2)
93	23.10	105.69	Shut-In(2)
186	908.46	106.76	End Shut-In(2)
187	1648.66	106.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%Mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary, Jr. & Associates
 1515 Wynkoop St. Ste # 700
 Denver, CO 80202
 ATTN: John Rakowski

5/19S/10W-Rice

Haddon #3-5

Job Ticket: 45269

DST#: 1

Test Start: 2011.10.27 @ 14:24:10

GENERAL INFORMATION:

Formation: **Lansing J&K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:14:00

Time Test Ended: 21:32:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: **3165.00 ft (KB) To 3210.00 ft (KB) (TVD)**

Reference Elevations: 1752.00 ft (KB)

Total Depth: 3440.00 ft (KB) (TVD)

1744.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8520 Outside

Press @ Run Depth: psig @ 3168.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.10.27 End Date: 2011.10.27

Last Calib.: 2011.10.27

Start Time: 14:34:20 End Time: 21:31:50

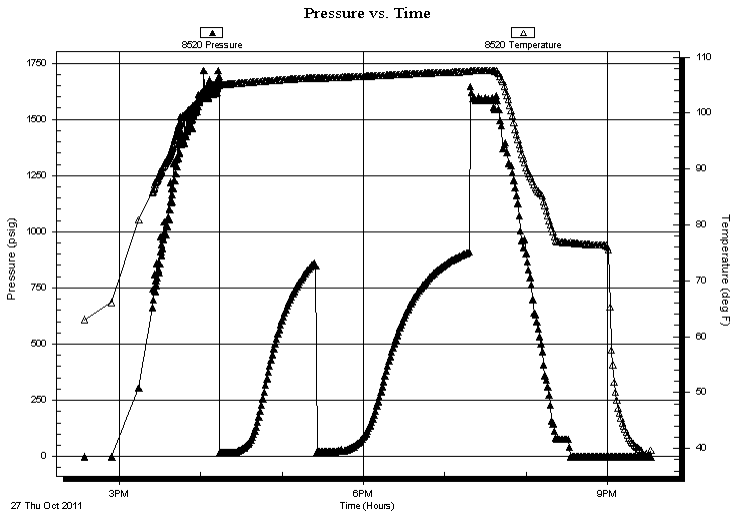
Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Few initial bubbles. No blow .
 ISI-No Return.
 FF-Surging w eak surface blow @ 3 minutes.
 FSI-No Return. Times- 10-60-20-90

PRESSURE SUMMARY

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

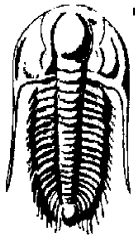


Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%Mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary, Jr. & Associates

5/19S/10W-Rice

1515 Wynkoop St. Ste # 700
Denver, CO 80202

Haddon #3-5

ATTN: John Rakowski

Job Ticket: 45269

DST#: 1

Test Start: 2011.10.27 @ 14:24:10

GENERAL INFORMATION:

Formation: **Lansing J&K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:14:00

Time Test Ended: 21:32:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3165.00 ft (KB) To 3210.00 ft (KB) (TVD)

Reference Elevations: 1752.00 ft (KB)

Total Depth: 3440.00 ft (KB) (TVD)

1744.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8650

Fluid

Press @ Run Depth: psig @ 3135.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.10.27 End Date: 2011.10.27

Last Calib.: 2011.10.27

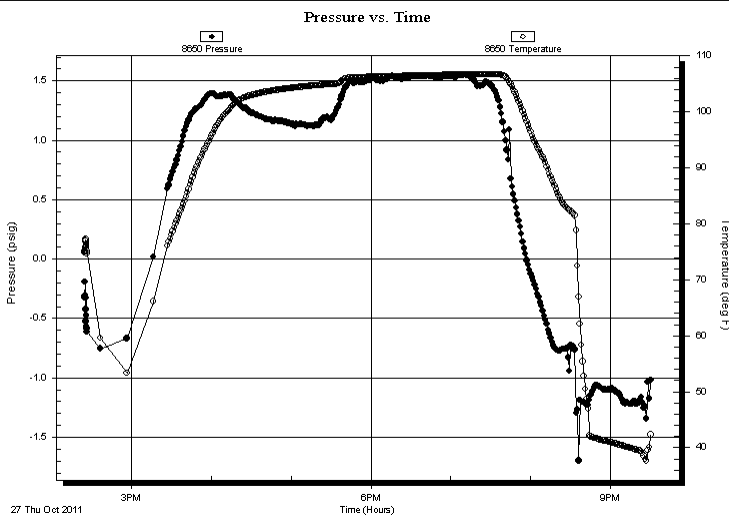
Start Time: 14:24:45 End Time: 21:30:09

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Few initial bubbles. No blow.
IS- No Return.
FF-Surging w eak surface blow @ 3 minutes.
FS- No Return. Times- 10-60-20-90

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%Mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary, Jr. & Associates

5/19S/10W-Rice

1515 Wynkoop St. Ste # 700
Denver, CO 80202

Haddon #3-5

ATTN: John Rakowski

Job Ticket: 45269

DST#: 1

Test Start: 2011.10.27 @ 14:24:10

GENERAL INFORMATION:

Formation: **Lansing J&K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:14:00

Time Test Ended: 21:32:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3165.00 ft (KB) To 3210.00 ft (KB) (TVD)

Reference Elevations: 1752.00 ft (KB)

Total Depth: 3440.00 ft (KB) (TVD)

1744.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8653 Below (Straddle)

Press @ Run Depth: psig @ 3212.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.10.27 End Date: 2011.10.28

Last Calib.: 2011.10.27

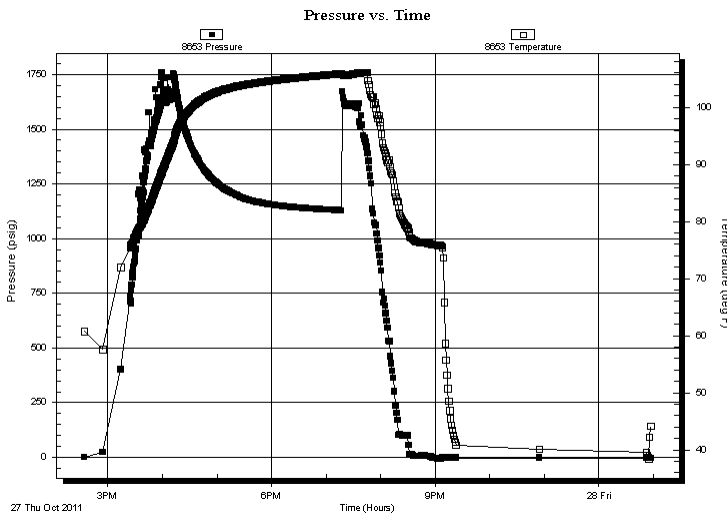
Start Time: 14:34:30 End Time: 00:57:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Few initial bubbles. No blow.
 IS-No Return.
 FF-Surging w weak surface blow @ 3 minutes.
 FS-No Return. Times- 10-60-20-90

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%Mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary, Jr. & Associates

5/19S/10W-Rice

1515 Wynkoop St. Ste # 700
Denver, CO 80202

Haddon #3-5

Job Ticket: 45269

DST#: 1

ATTN: John Rakowski

Test Start: 2011.10.27 @ 14:24:10

Tool Information

Drill Pipe:	Length: 3130.00 ft	Diameter: 3.80 inches	Volume: 43.91 bbl	Tool Weight: 3500.00 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: 5000.00 lb
			Total Volume: 44.06 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3165.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	276.00 ft			
Tool Length:	306.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Recorder	0.00	8650	Fluid	3135.00		
Change Over Sub	1.00			3136.00		
Shut In Tool	5.00			3141.00		
Sampler	2.00			3143.00		
Hydraulic tool	5.00			3148.00		
Jars	5.00			3153.00		
Safety Joint	3.00			3156.00		
Packer	5.00			3161.00	30.00	Bottom Of Top Packer
Packer	4.00			3165.00		
Stubb	1.00			3166.00		
Perforations	2.00			3168.00		
Recorder	0.00	8354	Inside	3168.00		
Recorder	0.00	8520	Outside	3168.00		
Perforations	37.00			3205.00		
Blank Off Sub	1.00			3206.00	276.00	Tool Interval
Packer	5.00			3211.00		
Change Over Sub	1.00			3212.00		
Recorder	0.00	8653	Below	3212.00		
Drill Pipe	220.00			3432.00		
Change Over Sub	1.00			3433.00		
Perforations	5.00			3438.00		
Bullnose	3.00			3441.00	1000305.00	Bottom Packers & Anchor

Total Tool Length: 306.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary, Jr. & Associates

5/19S/10W-Rice

1515 Wynkoop St. Ste # 700
Denver, CO 80202

Haddon #3-5

Job Ticket: 45269

DST#: 1

ATTN: John Rakowski

Test Start: 2011.10.27 @ 14:24:10

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

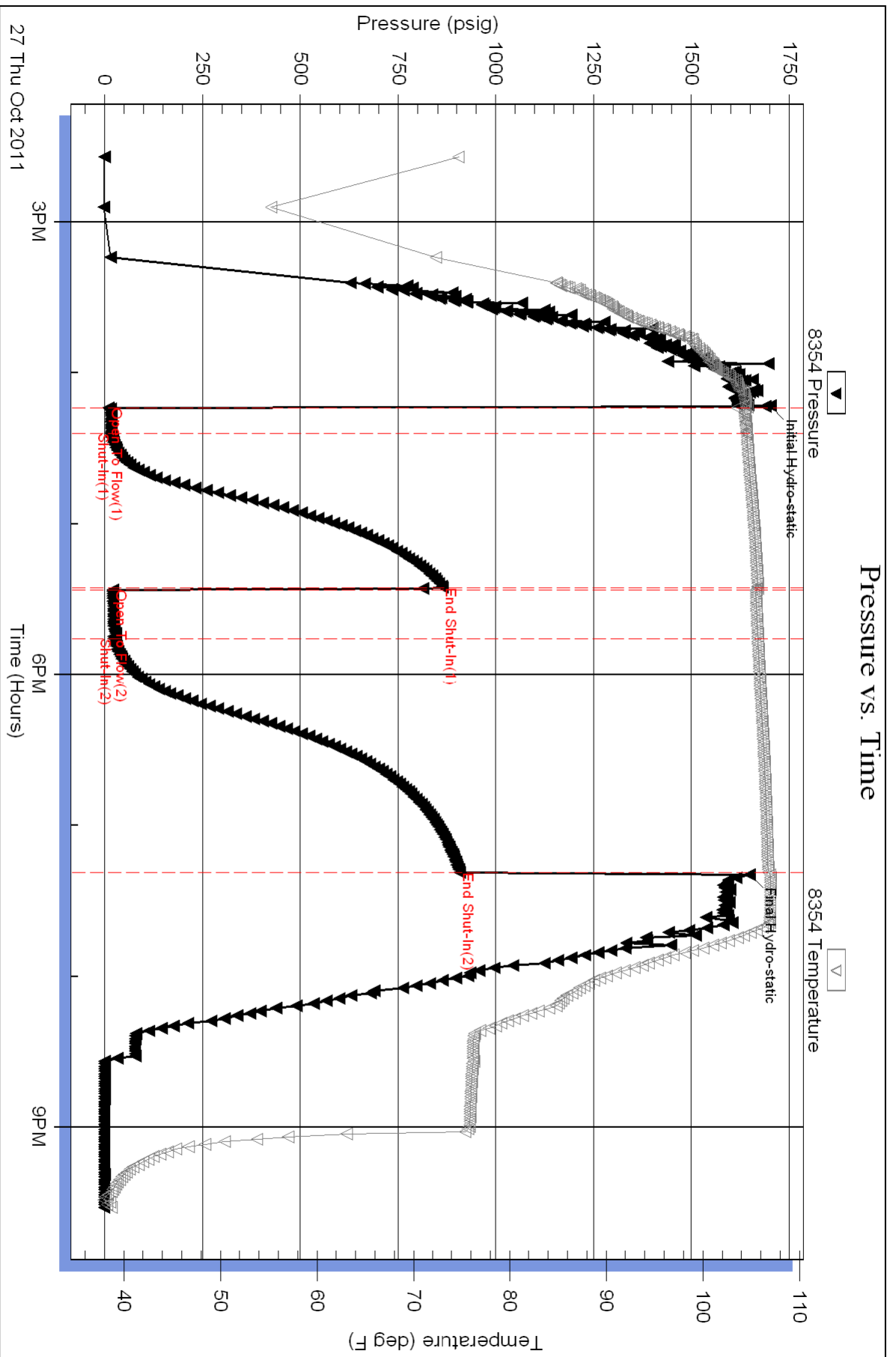
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler- 4000 ML Mud with Oil specs. 75# Pressure.

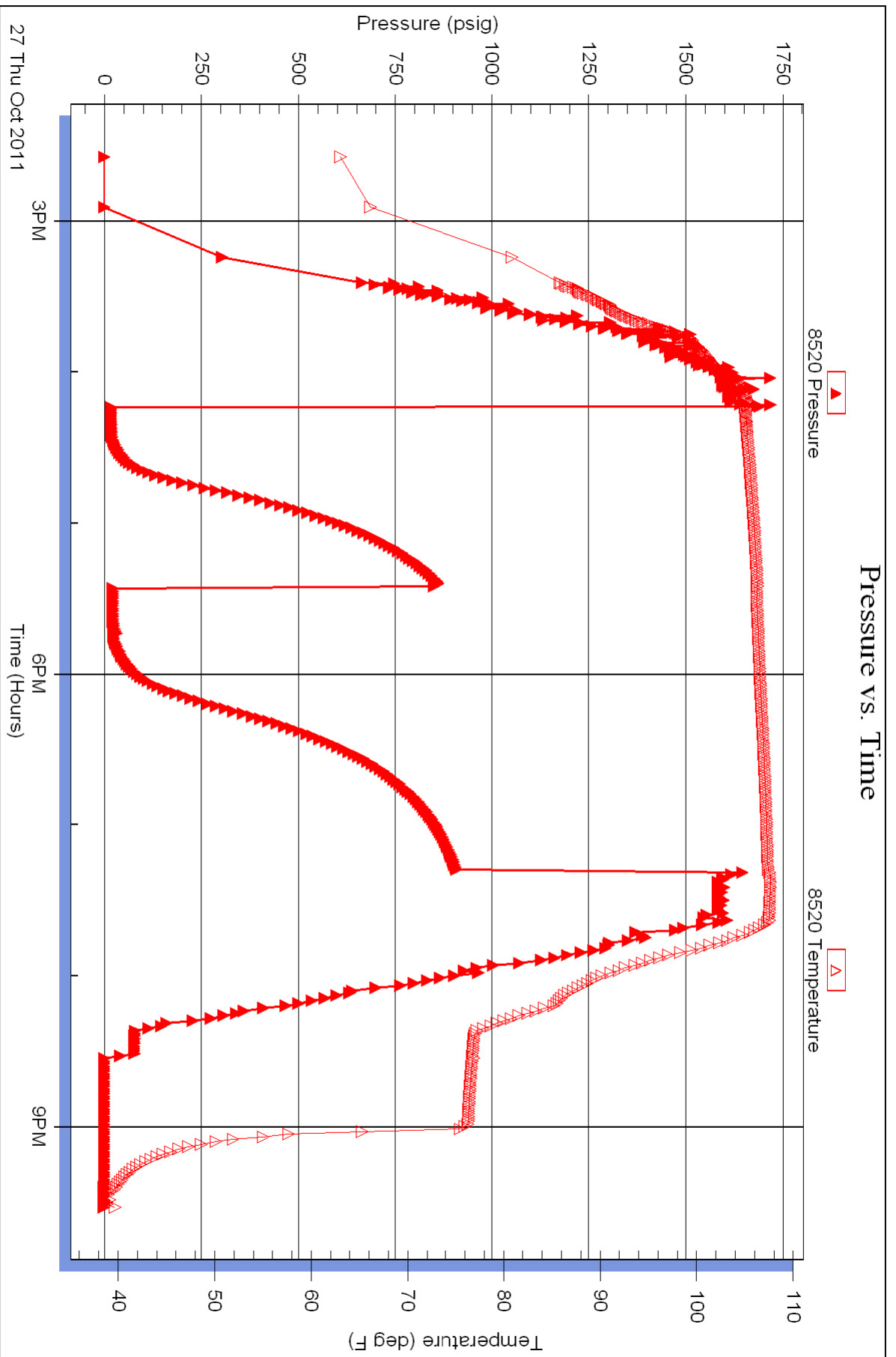


Serial #: 8520

Outside Samuel Gary, Jr. & Associates

Haddon #3-5

DST Test Number: 1



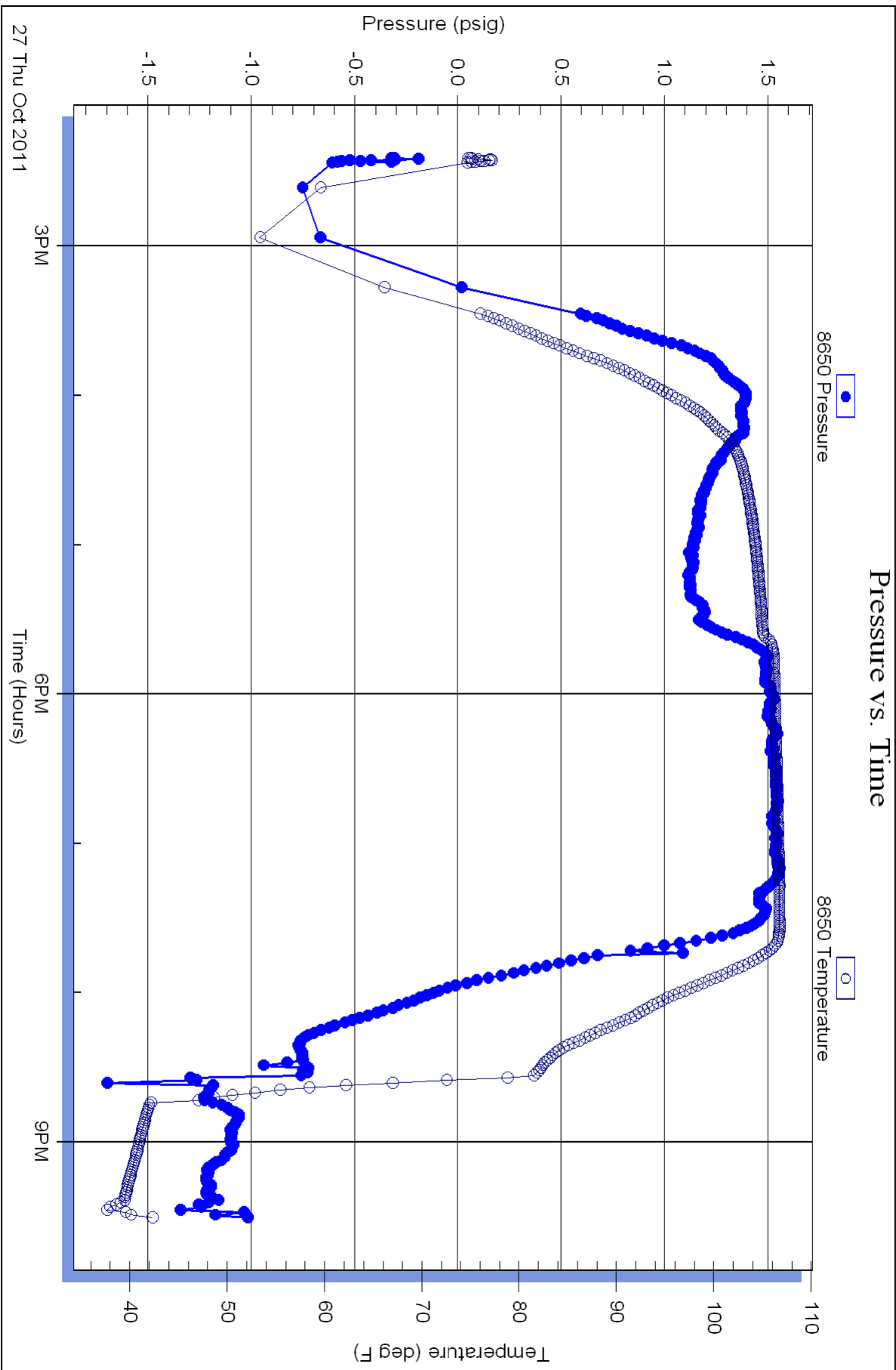
Serial #: 8650

Fluid

Samuel Gary, Jr. & Associates

Haddon #3-5

DST Test Number: 1

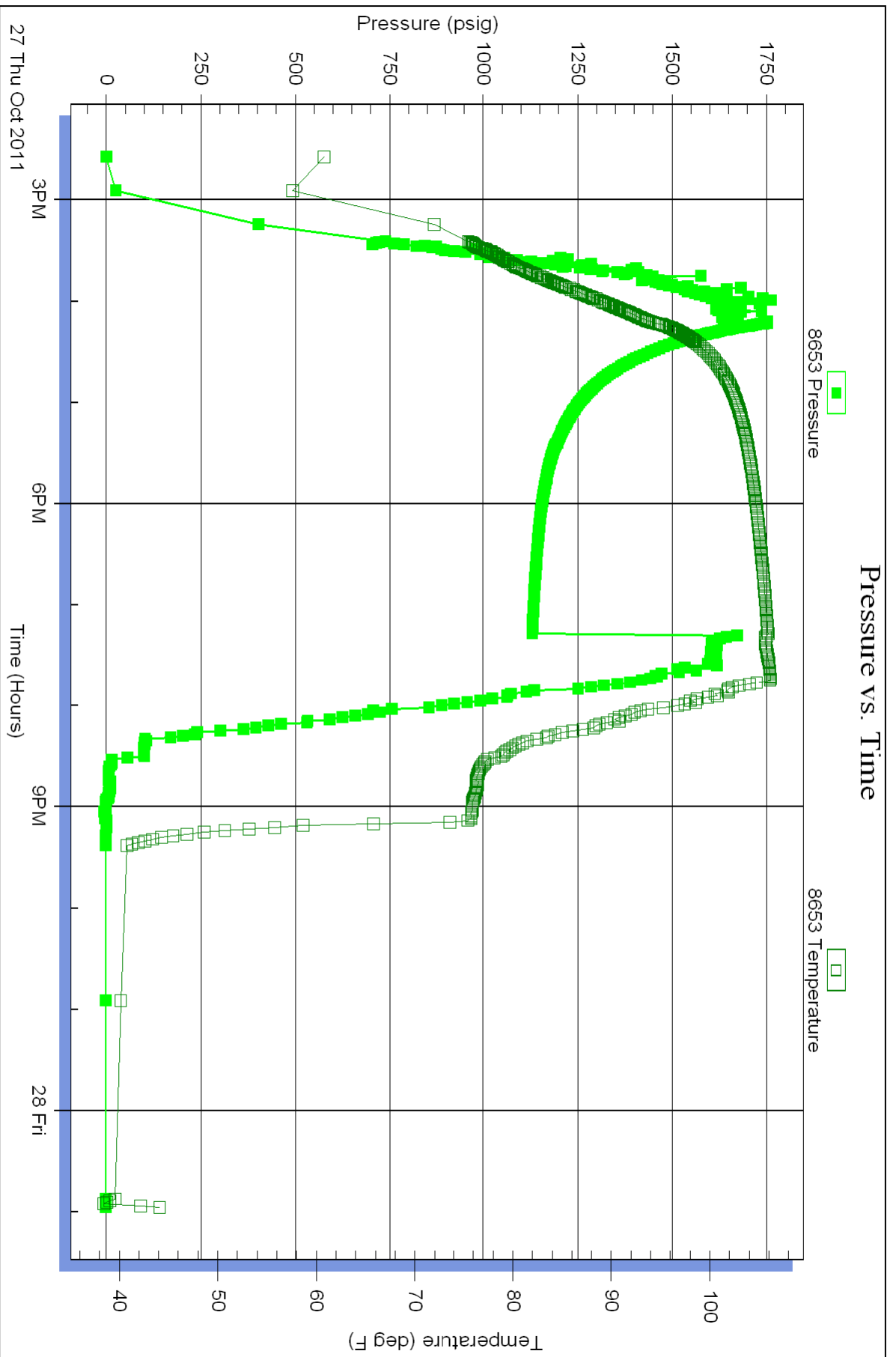


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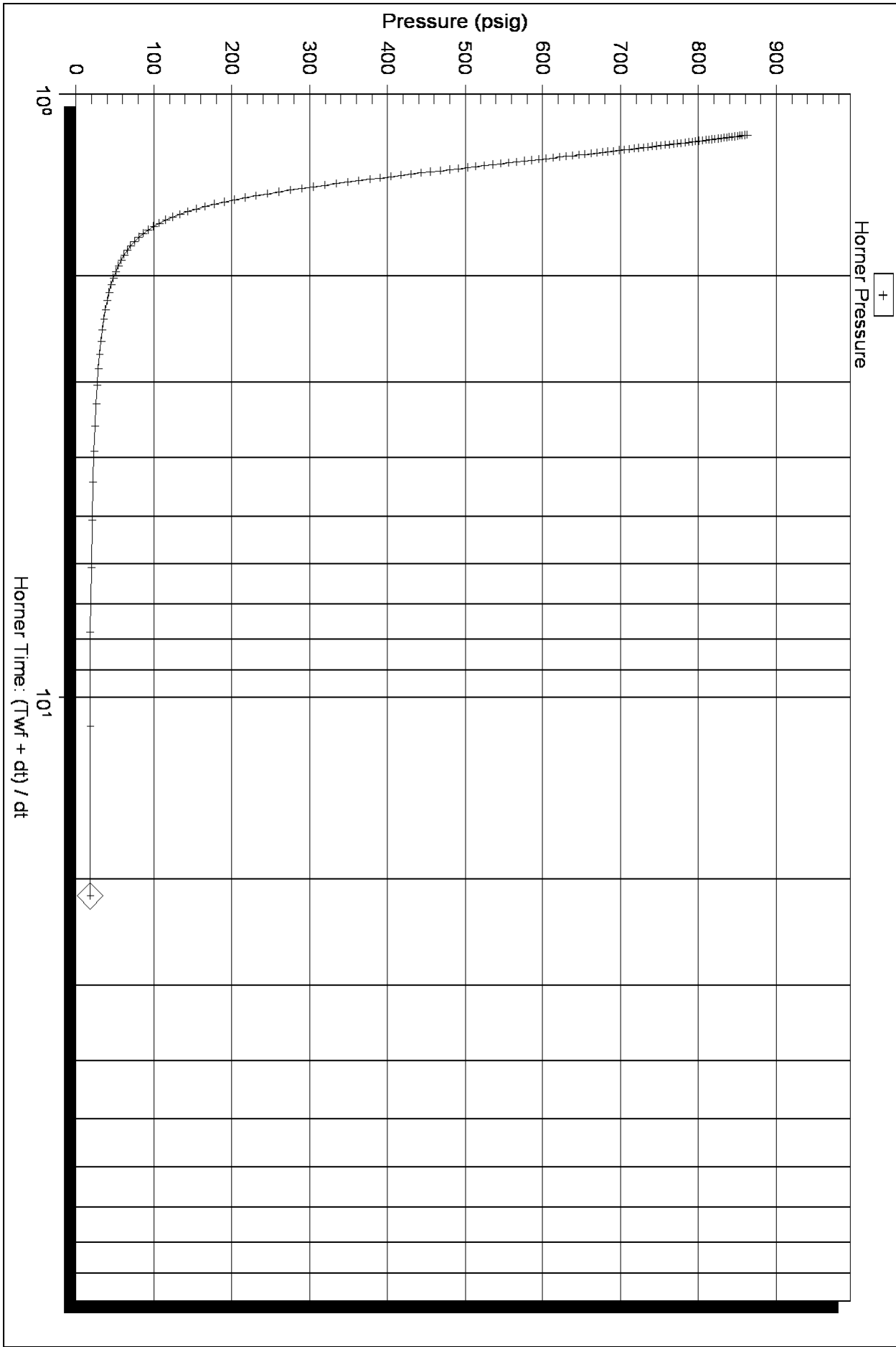
Below (Stratton) Gary, Jr. & Associates

Haddon #3-5

DST Test Number: 1



Horner Plot



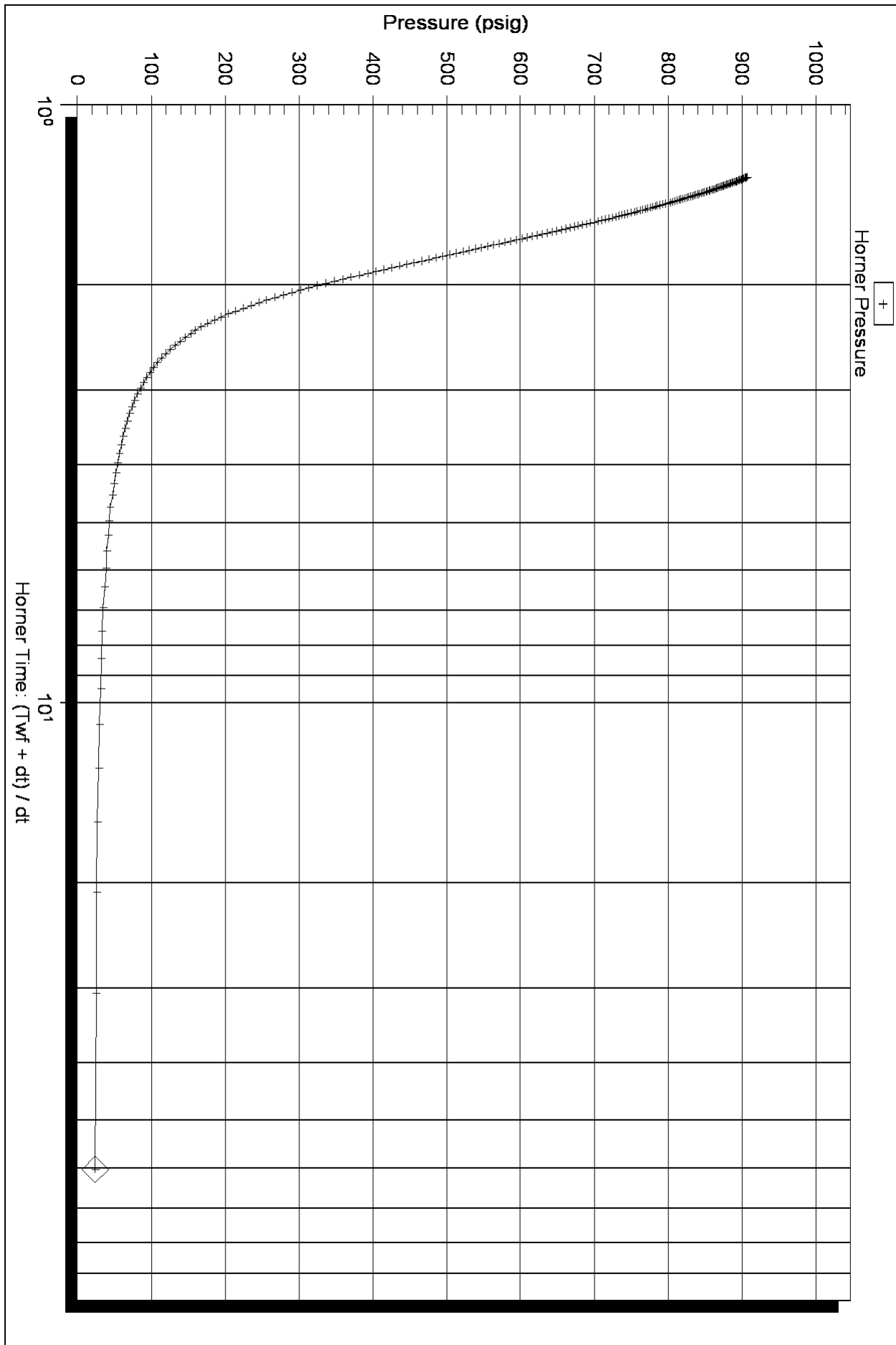
Serial Number: 8354 (Inside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

Horner Plot



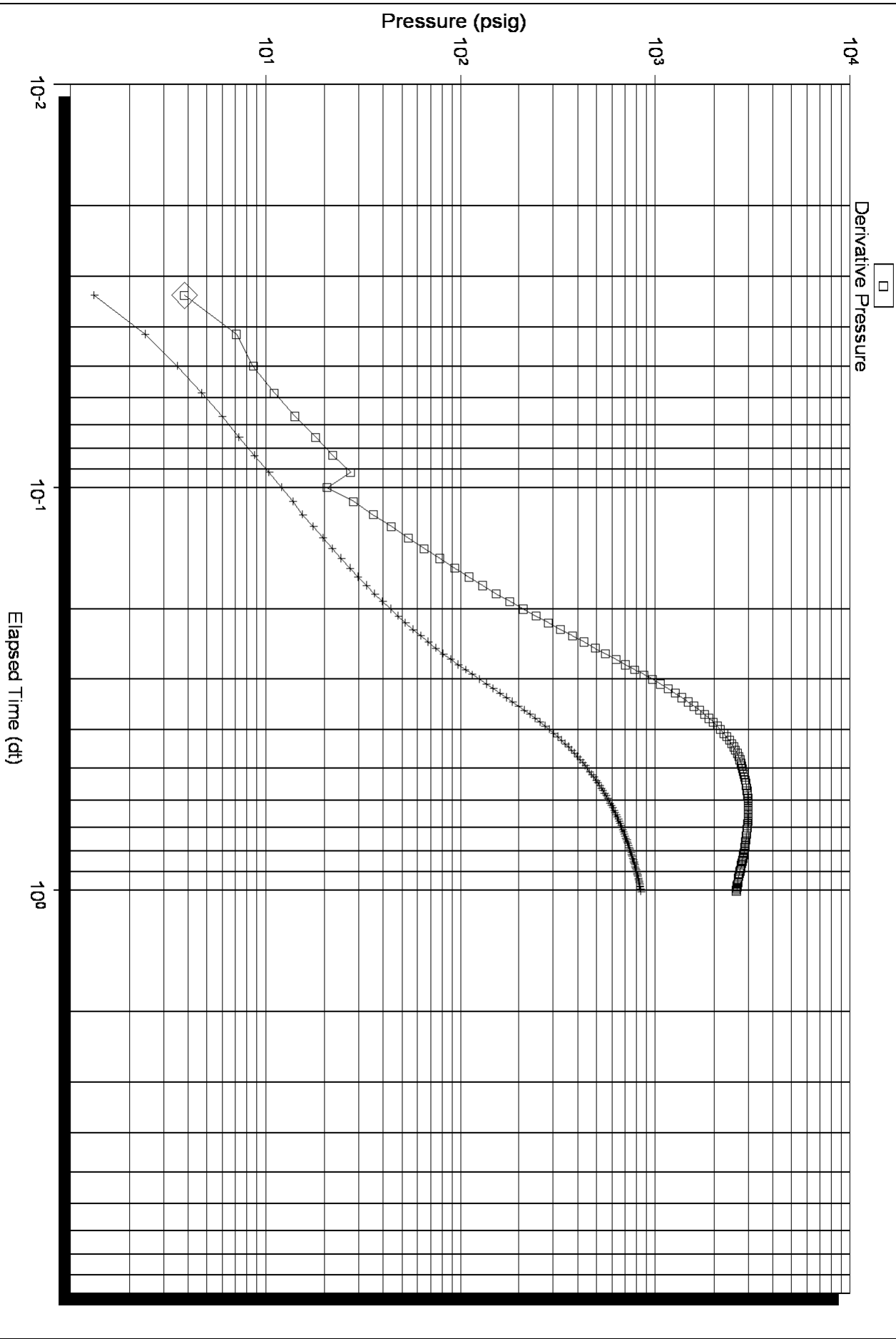
Serial Number: 8354 (Inside)

P* :

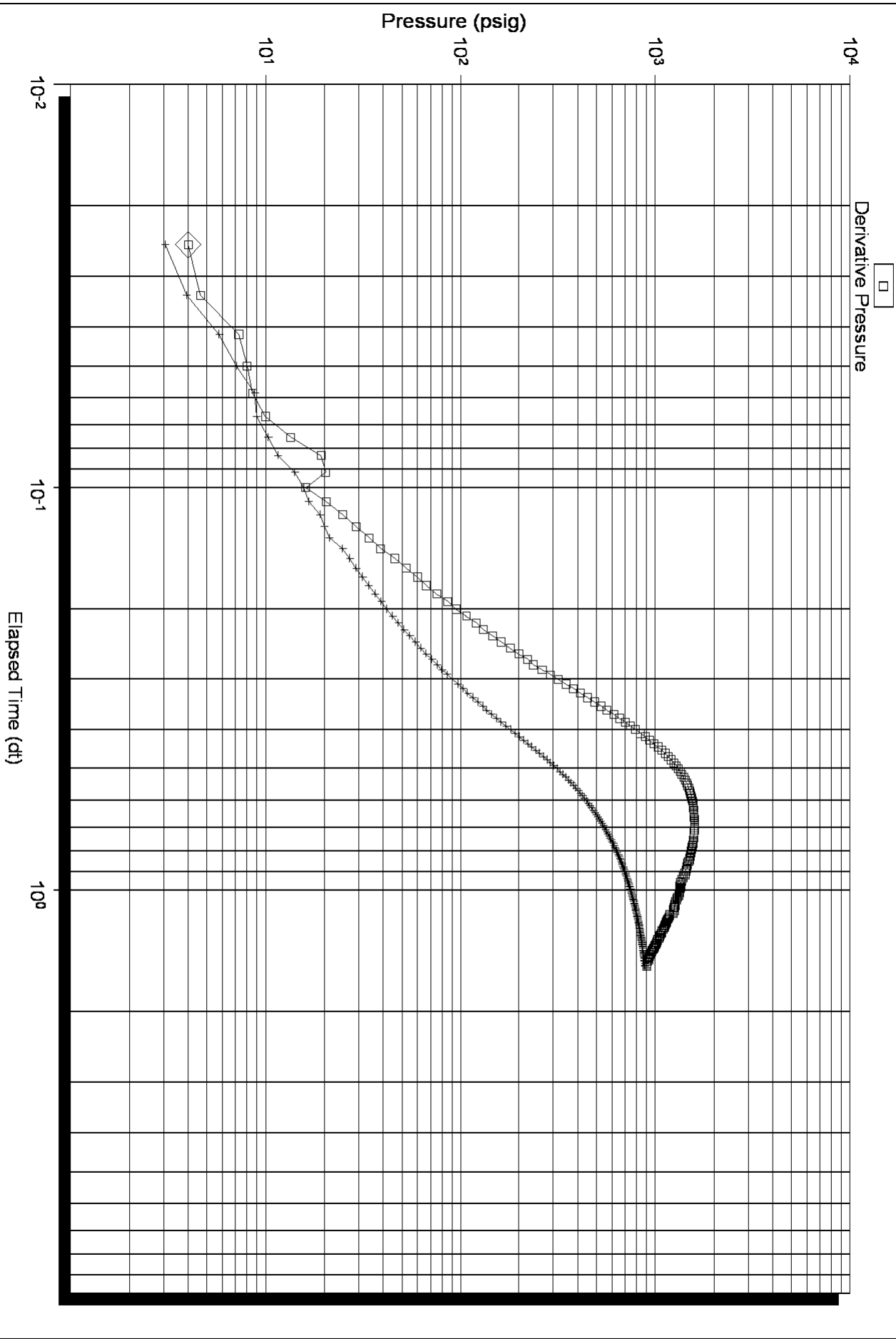
Slope (m) : kpa/log cycle

Flow Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





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

Well Name: SGA HADDON 3-5
 Location: SEC 5, 19S, 10W, Rice County, Kansas
 License Number: 15-159-22663
 Spud Date: 10/21/2011
 Surface Coordinates: 2970' FSL & 355' FEL
 Region: MARY IDA
 Drilling Completed: 10/27/2011

Bottom Hole Coordinates:
 Ground Elevation (ft): 1744' K.B. Elevation (ft): 1752'
 Logged Interval (ft): 2500' To: 3440' Total Depth (ft): 3440'
 Formation: Lansing, Arbuckle
 Type of Drilling Fluid: NATURAL CHEMICAL

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



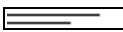
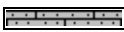
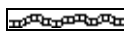



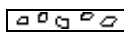







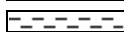
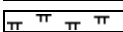



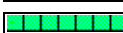



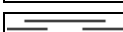



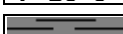
OPERATOR

Company: Samuel Gary Jr, & Assoc.
 Address: 1515 Wykoop, Ste. # 700
 Denver, Colo. 80202
 Geo: JOHN RAKOWSKI

GEOLOGIST

Name: Tim Hedrick
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla . 73945
 Off. 888-543-8378 Cell: 620-754-0062

ROCK TYPES

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

ACCESSORIES

MINERAL

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

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

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

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

FOSSIL

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

STRINGER

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

TEXTURE

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

OTHER SYMBOLS

POROSITY TYPE

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

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOWS

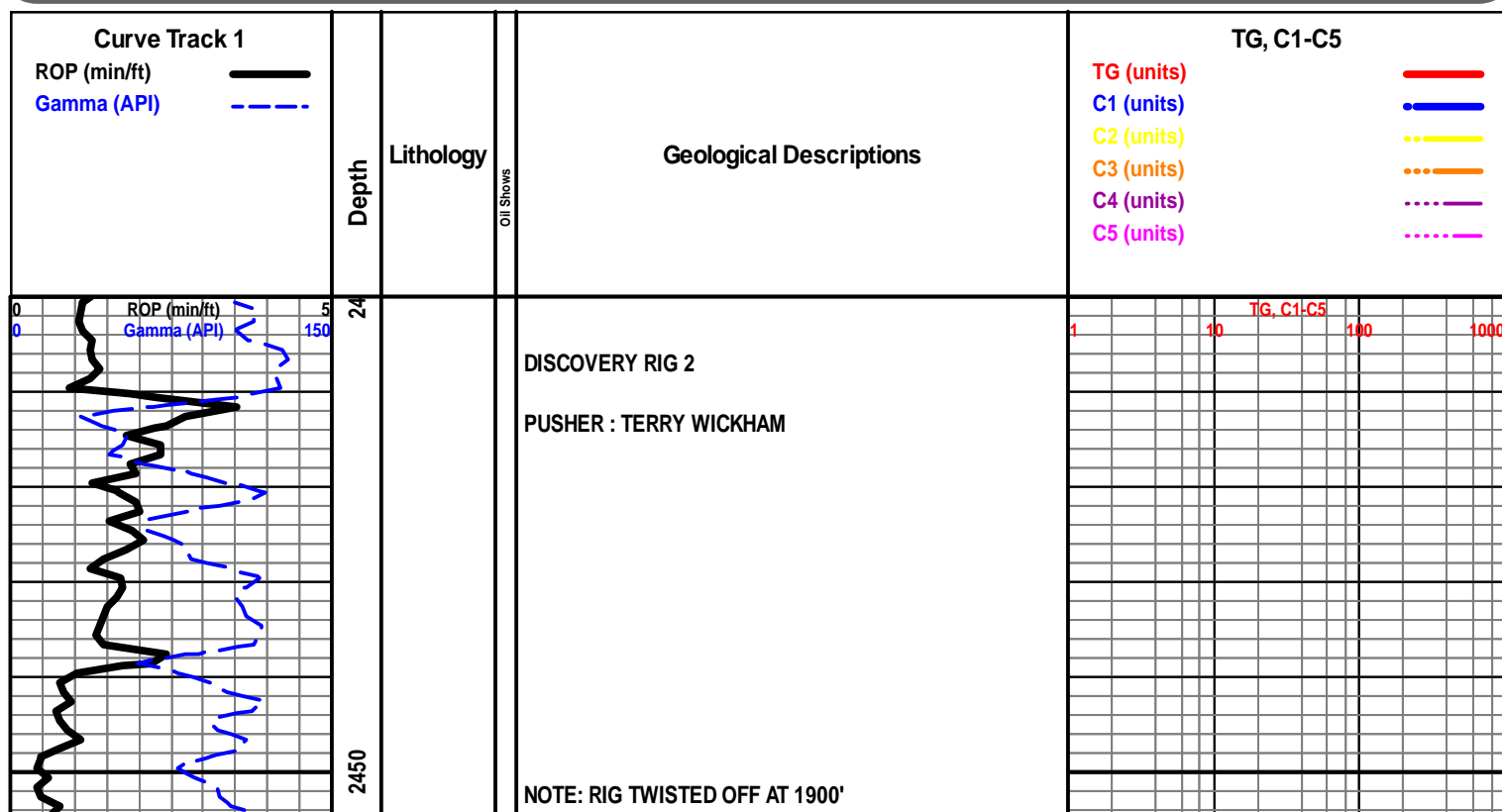
- Even
- Spotted
- Ques
- Dead
- Gas show

INTERVALS

- Core
- Dst
- Dst

EVENTS

- Rft
- Sidewall



SPENT 2 DAYS FISHING

ADDED 40 BBLS CRUDE TO GET UNSTUCK

START 24 HR MANNED UNIT ON THE 10/25/2011

OIL IN MUD

LS- CRM LT TN TN -HD DNS TO BRITT IP, MD-FXLN RE-XLN MTRX, ABDT IMBD FOSS FRGS THRU, TR IMBD LMNTD SH IP, LT BRIT YEL MIN FLO, NO VIS POR, NO VIS SHOW

CHROMAT OFF

CN

SH- LT TO MD GY- FRM BLKY SMTH TXT

LS- CRM LT TN TN- HD DNS TO BRITT IP, MD-FXLN RE-XLN MTRX, ABDT IMBD FOSS FRGS THRU, TR SCAT IMBD CALC XLS IP, LT BRIT YEL MIN FLO, NO VIS POR, NO VIS SHOW

CN

SEVERY 2546' - 794'

SH- LT GY TO LT GRN- FR IP TO V/ SLTY TXT, TR IMBD SCAT MD QURTZ GRNS IP, TR IMBD BLK CARB SH IP

SLTST- OFF WHT LT GY- HD TO BRIT, V//F-GRN QURTZ, ABDT IMBD DISS SND LMNTD SH THRU, V/ SFT CHLK IMBD IP, NO FLO, NO VS POR, NO VIS SHOW

CN

TOPEKA 2577' - 825'

LS- LT TN TN - HD DNS , MD-F-XLN, SLI RE-XLN IP, TR FOSS FRGS IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

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

CN

LS- LT TN TO OFF WHT- HD BRITT IP , V/ SUCRO MTRX, TR FOSS FRGS IP, GRDNG TO ABDT SFT WHT CHLK, HVY TR OF ABDT SFT WHT CHLK, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

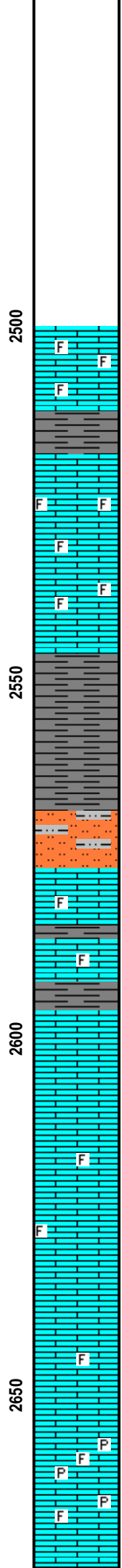
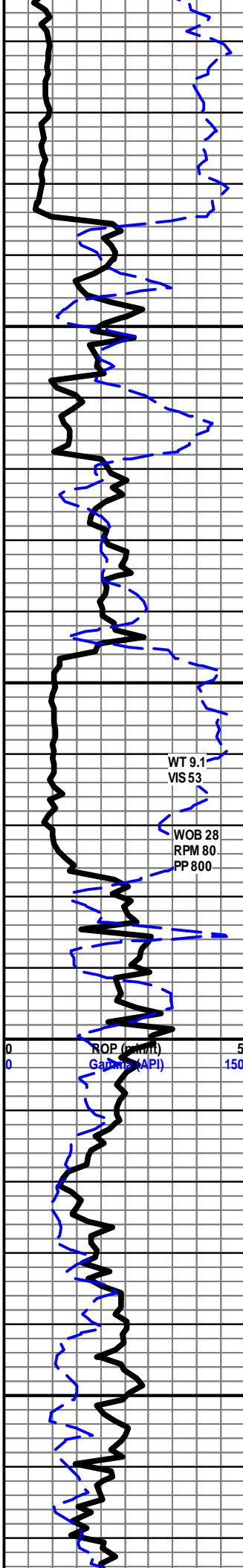
CN

LS- CRM BFF LT TN- HD DNS TO SLI GBRITT IP, V/ TT SUCRO MTRX TO F-XLN IP, SLI TR IMBD CHLK IP, TR PHNTM FOSS FRGS , LT DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW

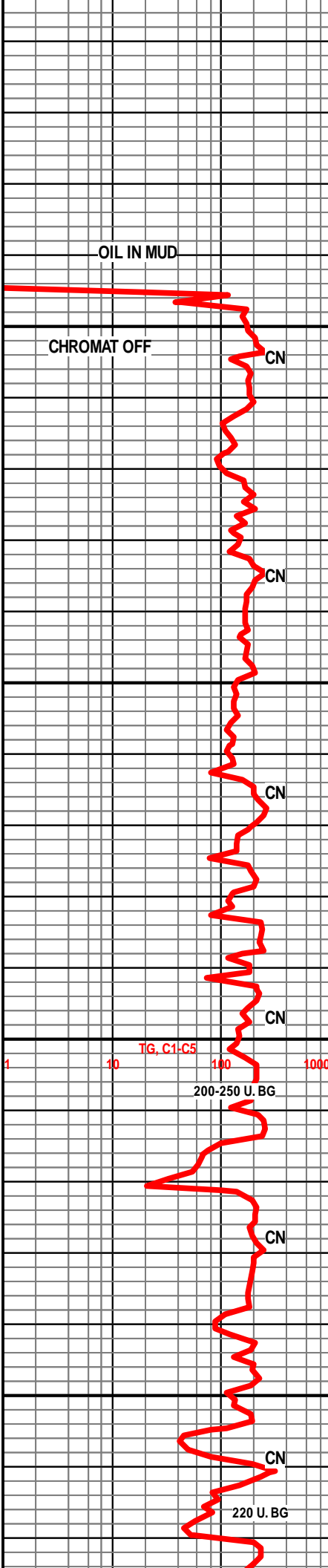
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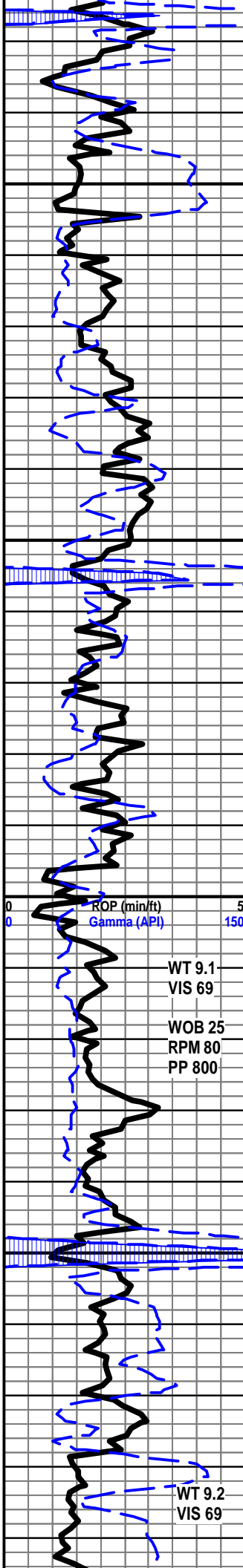
LS- OFF WHT CRM TN LT GY- HD DNS TO BRITT, MOTT IP, MD-XLN, RE-XLN MTRX TO SUCRO SLI S-CHLKY W, SCAT IMBD FOSS FRGS AND SCAT FNLY DISS PYR THRU, NO FLO, NO VIS POR, NO VIS CUT OR SHOW

220 U. BG



Log text providing detailed descriptions of geological formations and drilling observations.

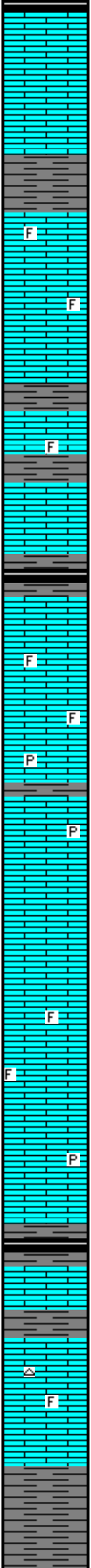




2700
2750
2800
2850

WT 9.1
VIS 69
WOB 25
RPM 80
PP 800

WT 9.2
VIS 69



SH- BLK SFT CARB SLI CALC IP
LS- OFF WHT TO WHT - MD HD TO SFT, ABDT SFT WHT
CHLK, LT BRIT YEL MIN FLO THRU, NO VIS POR, NO VIS
SHOW OR CUT

SH- LT GY TO LT GRN- FRM BLKY SMTH TXT
LeCOMPTON 2703' - 951'

LS- OFF WHT CRM LT TN - HD DNS TO V/ BRITT, MD-XLN
TO SUCRO S-CHLKY IP, FOSS FRGS IP, TO TR ABDT SFT
CHLK IP, LT BRIT YEL MIN FLO, NO VIS POR, NO VIS
SHOW OR CUT

LS- CRM LT TN LT GY- HD DNS MOTT, MD-XLN , TR FOSS
FRGS IP, TR IMBD LT GY SH IP, LT YEL MIN FLO, NO VIS
POR, NO VIS SHOW OR CUT

SH- BLK SFT CARB TO V/ DK GY FRM BLKY SLI CALC IP

LS- OFF WHT TO CRM BFF- HD V/ BRITT, V/ SUCRO SLI
S-CHLKY MTRX, TR FOSS FRGS SCAT IP, TR OF ABDT
SFT WHT CHLK, LT YEL MIN FLO, TR PR VIS INTER-XLN
PP POR IP, NO VIS SHOW OR CUT

LS- CRM BFF- MD HD TO SFT , V/ SUCRO MTRX TO
SUCRO S-CHLKY IP, TR WETHERED LT GY WHT CHRT W/
IMBD DISS PYR CLSTRS, TR IMND LT GY SH, NO FLO, NO
VIS POR, NO VIS SHOW OR CUT

LS- WHT OFF WHT- ABDT SFT WHT GMMY CHLK THRU,
NO FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- CRM BFF LT TN TN - HD DNS TO TR BRITT, MD-F-XLN
RE-XLN MTRX, SCAT FOSS FRGS IP, TR IMBD SMLL CALC
XLS IP, NO FLO, TR MIRO PP POR IP TO NO VIS POR , NO
VIS SHOW OR CUT

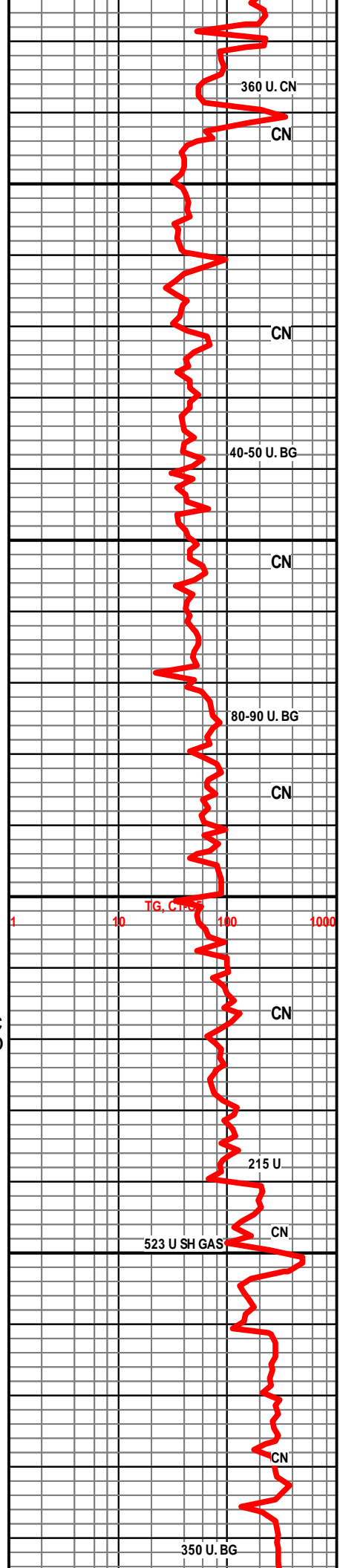
LS- OFF WHT TO CRM- MD HD TO FRM, SUCRO S-CHLKY
MTRX , TR MD -XLN IP, TR OF ABDT SFT CHLK IP, TR PYR
CLSTRS IP, NO FLO, NO VIS POR, NO VIS SHOW

HEEBNER 2846' - 1094'

SH- BLK SFT CARB

LS- OFF WHT WHT- HD V/ BRITT, MD-XLN IP TO SUCRO
SLI S-CHLKY IP TR FOSS , TR WHT CHRT IMBD IP, LT
BRIT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR
CUT

DOUGLAS 2876' - 1124'



TIG. CT 100 1000

360 U. CN

CN

CN

40-50 U. BG

CN

80-90 U. BG

CN

CN

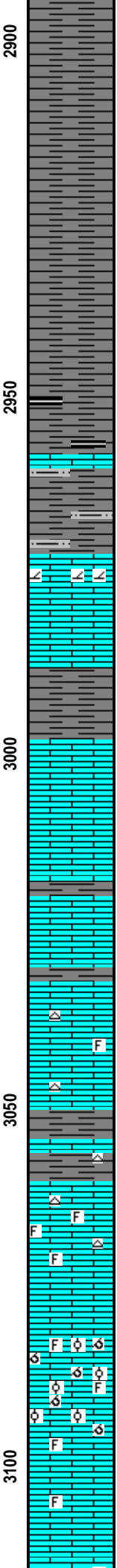
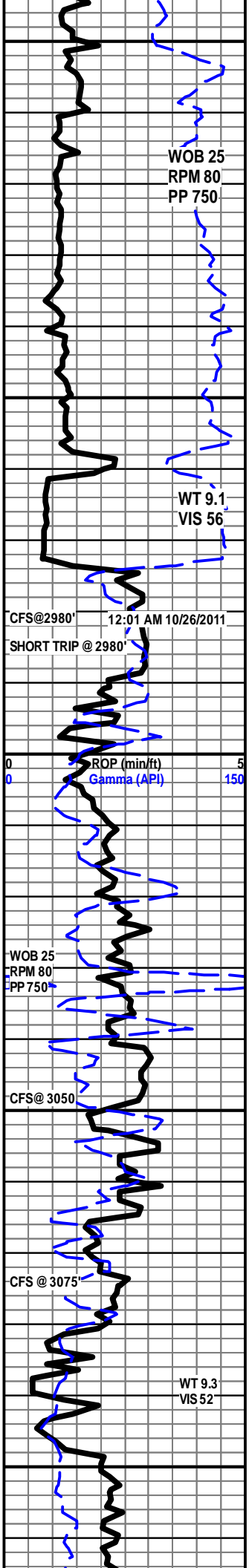
215 U

CN

523 U SH GAS

CN

350 U. BG



SH- LT GY TO V/ LT GRN- FRM IP TO V/ SFT GMMY TXT
SLI TR SLTY

SH- LT GY TO LT GRN- V/ SFT GMMY, SLI SLTY TXT IP

SH- LT GY GY- FRM IP TO V/ SFT SLTY TXT DISS BLK
CARB SH SCAT IP

SH- LT GY GY- V/ SFT GMMY IP TO V/ SFT SLTY TXT, SLI
TR LT GY SLTST IP, W/ DISS SH THRU

BR. LIME 2973' - 1221'

LS- TN BRN - HD DNS F-XLN TO V/ TT SUCRO MTRX, SLI
TO TR V/ DOLO IP, TR LT YEL MIN FLO IP TO NO FLO, NO
VIS POR, NO VIS SHOW

SH- LT TO MD GY - FRM BLKY SMTH TXT IP TO V/ SFT IP

LANSING 2998' - 1246'

LS- OFF WHT TO CRM- HD DNS IP TO MD HD, F-XLN TO
SUCRO S-CHLKY IP, W/ ABDT SFT WHT CHLK IP, BRIT
YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

LANSING "X" 3031' - 1279'

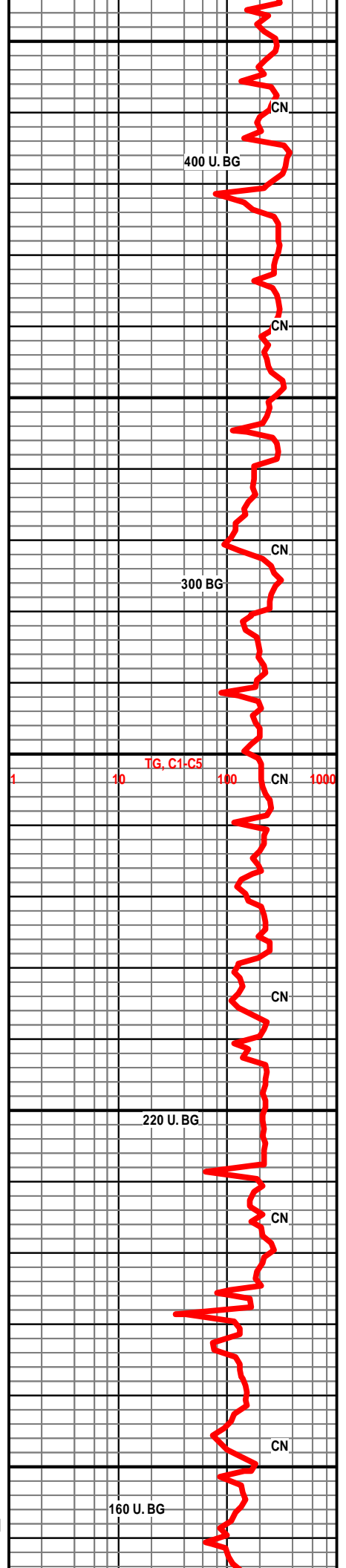
LS- LT TN TN, HD DNS SLI TR BRITT, MD-F-XLN, RE-XLN
IP, TR FOSS FRGS SCAT IP, TR WHT WTHRD CHRT, LT
YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

SH- LT TO MD GY - FRM BLKY SMTH TXT. SLI CALC IP

LS- OFF WHT CRM LT TN, HD TO BRITT, MD- F-XLN,
RE-XLN MTRX, V/FOSS IP, ABDT TN WHT CHRT, ABDT
IMBD SFT WHT CHLK AND FREE FRM CHLK IP, LT BRIT
YEL MIN FLO IP, NO VIS POR TO SLI TR PR INTER-
FOSS POR IP, NO VIS CUT OR SHOW

LS- LT TN TN - HD V/ BRITT, MD-F-XLN, V/ RE-XLN MTRX,
V/ FOSS, V/ OOLMLD, V/ OOL IP, ABDT SCAT IMBD SFT
WHT CHLK, NO FLO, PR OOLMLD POR, TR SCAT MICRO
PP POR, TR SCAT PR TO FR MICROVUG POR, NO VIS
CUT OR SHOW

LS-LT TN TN- HD TO MD HD, SUCRO MTRX SLI TR MD-XLN
IP, TR FOSS FRGS IP, NO FLO, NO VIS POR, NO VIS
SHOW



LANSING "Z" 3124' - 1372'

SH- BLK SFT CARB

LS- OFF WHT CRM BFF-HD TO MD HD, SUCRO S-CHLKY MTRX, TO TR MD-XLN IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- LT TN TN - HD DNS TR BRITT IP, MD-F-XLN, RE-XLN MTRX, FOSS FRGS IMBD THRU, TR SMLL OOL IMBD, SMLL CALC XLS IMBD IP, LT YEL MIN FLO SCAT THRU, TO NO FLO, NO VIS POR, NO VIS SHOW OR CUT

SH- LT GRY- FRM BLKY SLI CALC IP SMTH TXT

STARK SH 3191' - 1439'

SH- BLK SFT CARB

SH- BLK BRN GRN MOTT, FRM BLKY SMTH TXT SLI CALC IP ABDT IMBD PYR CLSTRS

LS- CRM BFF- HD DNS F-V/F-XLN, RE-XLN MTRX, ABDT IMBD SCAT SMLL CALC XLS IP, NO FLO IP TO V/ DLL YEL MIN FLO IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- CRM BFF- HD DNS F-V/F-XLN, RE-XLN MTRX, ABDT IMBD SCAT SMLL CALC XLS IP, TN CHRT IP, TR ABDT SFT WHT CHLK IP, NO FLO IP TO V/ DLL YEL MIN FLO IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

SH-LT GRN TO DK GRN FRM BLKY SMTH TXT

BASE KC 3261' - 1509'

LS-CRM LT PNK, MOTT, HD DNS F-XLN TO TT SUCRO MTRX, TR IMBD SMLL CALC, TR WHT CHRT, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

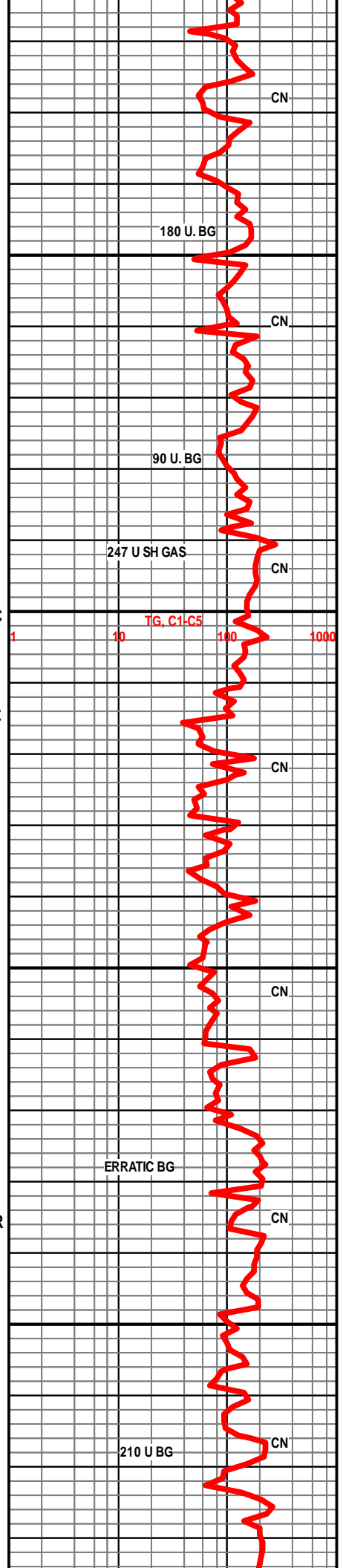
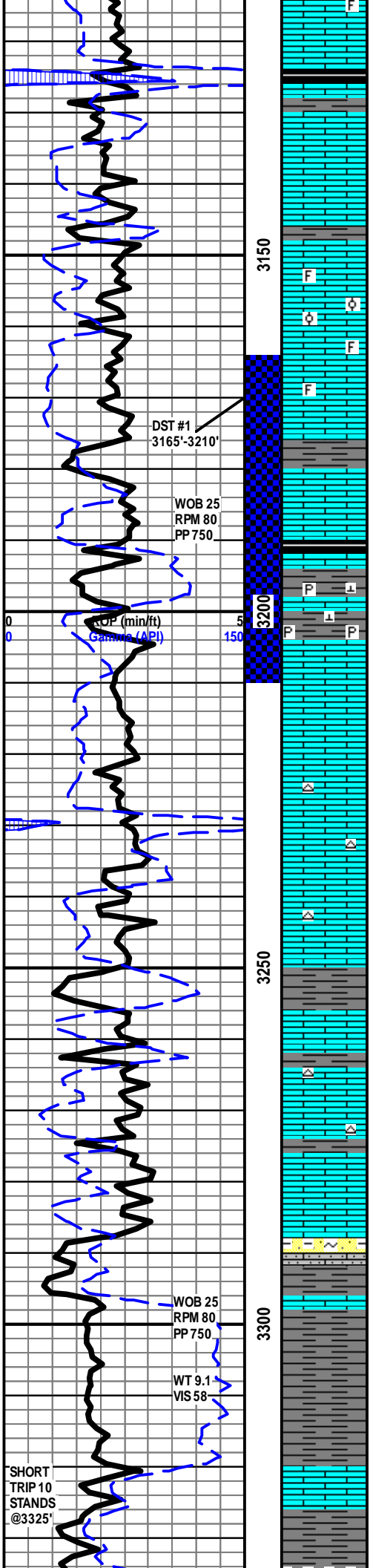
SS-CLR LT GRN- HD TT TO TR FRI, ABDT F TO V/F-GRN TR MD GRN CLR QURTZ GRNS, FR SRT, S-ANG TO S-RND IP SIL CMNT TO TR CALC CMNT IP, TR GLAUC, ABDT IMBD FNLY DISS SH THRU, NO FLO, NO VIS POR, NO VIS CUT OR SHOW

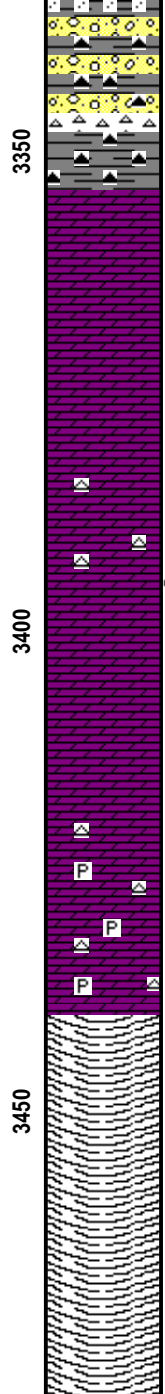
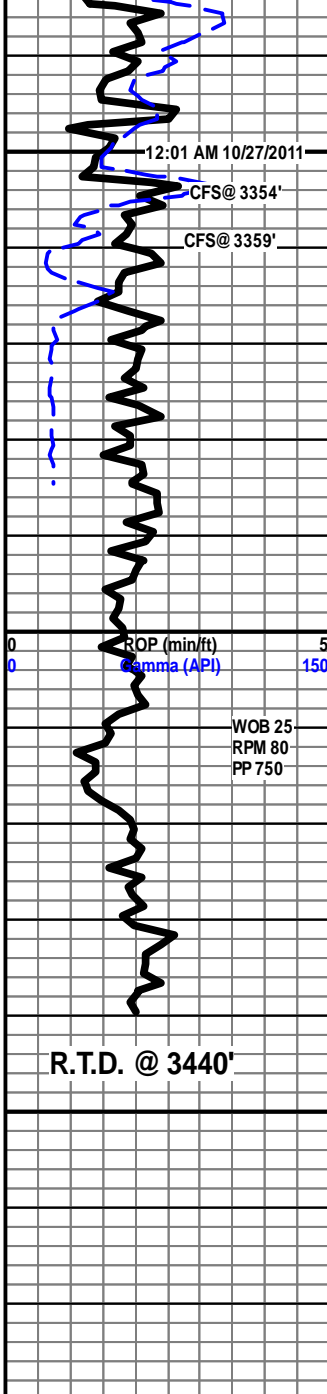
SH- RED GRN - FRM BLKY SMTH XT IP TO GRNY V/ CALC TO LMY IP

SH- RED - V/ SFT GMMY

LS- LT TN OFF WHT- F-XLN IP TO ABDT SFT WHT CHLK, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

SH- RD GRN PRPLE- MOTT, FRM BLKY V/ SMTH TXT, TR IMBD MD CLR S-RND QURTZ GRNS IP





CONGL- GRN ORNGE PRPLE SH, ABDT TN BRN ORNGE
MOTT CHRT, IMBD CLR MD S-RND CLR QURTZ GRNS

SH- RED DK RD- FRM IP GRNY TXT TO V/ SFT GMMY TXT
W/ ABDT MOTT CHRT

ARBUCKLE 3353' - 1601'

3354-3359' DOLO- CRM LT TN OFF WHT, HD DNS TO TR BRITT, V/ TT FN
SUCRO MTRX TO FN XLN IP, SLI TR SMLL ANG DOLO GRNS IP, SCAT
IMBD SFT WHT CHLK IP, BRIT YEL MIN FLO THRU, TR BRIT YEL GLD FLO
IN 10%, PR VIS INTER-XLN POR IN 20% TO NO POR IN 80%, V/ LT FLSH
CUT IN 10%, WK SLO STRM CUT IN 10%, NO CUT IN 90%, SLI OIL ODOR

3360-3380' DOLO-CRM LT TN TN(DUE TO OIL STN IN 20%) FN XLN TO
V/ TT SUCRO MTRX THRU, HVY TR OF SFT WHT CHLK IP, BRIT YEL MIN
FLO THRU, BRIT YEL GLD FLO IN 30%, NO VIS POR IN 90%, PR VIS
INTER-XLN POR IN 10%, NO FLSH CUT, PR SLO STRM CUT IN 30%, FR
OIL ODOR

3380-3390' DOLO- OFF WHT CRM TR LT TN- HD DNS TO SLI TR BRITT IP,
FN XLN TO TT SUCRO MTRX, TR OF IMBD SFT WHT CHLK SCAT THRU,
WHT CHRT IP, BRIT YEL MIN FLO THRU, DLL EL FLO IP, TR INTER-XLN
POR IP, NO FLSH CUT , V/ WK SLO STRM CUT IN 5%, NO ODOR

3390 TO 3410- DOLO - OFF WHT CRM LT TN- HD DNS TR BRITT, F-XLN
TO TT SUCRO MTRX IP, SMLL AND FOLO GRNS IMBD IP, TR CLR XLS
CLSTRS IP, SCAT SFT WHT CHLK IP , BRIT YEL MIN FLO THRU. BRIT YEL
GLD FLO IN 10%, TR PR SCAT INTER-XLN POR TO SLI TR GD INTER-XLN
POR IN 10%, NO FLSH CUT TO WK SLO STRM CUT IN 10%, NO ODOR

3410-3420 DOLO- OFF WHT TO CRM LT TN IP, HD DNS TO BRITT IN
40%, FN XLN TO CRS SUCRO MTRX IP, ABDT IMBD SMLL ANG DOLO
GRNS IN 40%, SCAT IMBD SFT WHT CHLK IP, BRIT YEL GLD FLO IN 5%,
BRIT YEL MIN FLO THRU, NO POR IN 50% TO FR TO GD VIS INTER-XLN
POR IN 40%, NO FLSH CUT , V/ WK SLO STRM CUT IN 5%, NO ODOR

3420-3440- CRM LT TN TN- HD DNS TO SLI TR BRITT, MD-XLN TO CRS
SUCRO MTRX, SCAT IMBD SMLL ANG DOLO GRNS IP, SCAT IMBD DISS
PYR, ABDT TRNSLCNT WHT CHRT, BRIT YEL MIN FLO THRU, PR VIS
INTER-XLN POR SCAT THRU, NO VIS CUT OR SHOW

R.T.D. @ 4:24 AM 10/27/2011

CTCH 1.5 HRS

TOFL

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