



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1233865
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: _____

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	THOMAS CASEY 2-32
Doc ID	1233865

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	THOMAS CASEY 2-32
Doc ID	1233865

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3146-3150	1,500 GAL 28% NE	3146-3150
4	3205-3209	1,500 GAL 28% NE	3205-3209
4	3259-3263	1,000 GAL 28% NE	3259-3263
4	3269-3274	1,000 GAL 28% NE	3269-3274
4	3350-3355	250 GAL 28% MCA W/ 3% MAS	3350-3355
4	3374-3378	250 GAL 28% MCA W/ 3% MAS	3374-3378



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: 8/13/2014
 Invoice # 324
 P.O.#:
 Due Date: 9/12/2014
 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 25 2014

SAMUEL GARY JR.
& ASSOCIATES, INC.

Reference:
 THOMAS CASEY 2-32

Description of Work:
 SURFACE JOB

DRLG COMP W/O LOE GG

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

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	No				
Common-Class A	180	\$ 3,017.65	Yes				
Calcium Chloride	9	\$ 559.87	Yes				
Pump Truck Mileage-Job to Nearest Camp	43	\$ 479.63	No				
Bulk Truck Matl-Material Service Charge	189	\$ 422.47	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	43	\$ 280.66	No				
Flo Seal	45	\$ 100.59	Yes				
Premium Gel (Bentonite)	5	\$ 90.98	Yes				
8 5/8" Centralizer	1	\$ 71.53	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$	6,043.92
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(906.59)
<hr/>			
	SubTotal for Taxable Items:	\$	3,264.52
	SubTotal for Non-Taxable Items:	\$	1,872.81
<hr/>			
	Total:	\$	5,137.33
	Tax:	\$	200.77
<hr/>			
	Amount Due:	\$	5,338.10
	Applied Payments:		
	Balance Due:	\$	5,338.10

6.15% Rooks 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. 324

Date	8-13-14	Sec.	32	Twp.	9	Range	16	County	Book 45	State	KS	On Location	6:15 pm	Finish	9:30 pm			
Lease	Thomas Casey							Well No.	2-32		Owner	XR 1/4 W Sinto						
Contractor	Discony 4							Location									Cade 11 E to 28 RD N to	
Type Job	Surface							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	12 1/4							T.D.	305		Charge To	Sam Gary / JRT Associates						
Csg.	8 5/8							Depth	Street -									
Tbg. Size								Depth	City									State
Tool								Depth	The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.	20ft							Shoe Joint	20ft		Cement Amount Ordered	180 Com						
Meas Line	23ft							Displace	18 BBL		3% CC 2% Gel 1/4 Flow							
EQUIPMENT																		
Pumptrk	20	No.	Cementer		Matt		Common									180		
Bulktrk	15	No.	Driver		Nick		Poz. Mix											
Bulktrk	pu	No.	Driver		Clayton		Gel.									3		
JOB SERVICES & REMARKS																		
Remarks:	Cement did Circulate																	
Rat Hole	Thank you																	
Mouse Hole																		
Centralizers	#1																	
Baskets																		
D/V or Port Collar																		
	Handling 189																	
	Mileage 8 5/8																	
	FLOAT EQUIPMENT																	
	Guide Shoe																	
	Centralizer 1																	
	Baskets																	
	AFU Inserts																	
	Float Shoe																	
	Latch Down																	
	Pumptrk Charge Surface																	
	Mileage 43																	
X Signature														Tax				
														Discount				
														Total Charge				



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

Date: 8/20/2014
 Invoice # 330
 P.O.#:
 Due Date: 9/19/2014
 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 25 2014

SAMUEL GARY JR.
 & ASSOCIATES, INC.

Reference:

Thomas Casey 2-32

Description of Work:

1 prod string Bottom Stage

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	\$ 991.39	No	Defoamer A or CAF-38	50	\$380.00	Yes
Two Stage Cement Collar, 5 1/2"	\$ 3,886.86	Yes	Auto Fill Float Shoe, 5 1/2"	1	\$332.23	Yes
Common-Class A	\$ 3,257.14	Yes	Salt (Fine)	17	\$257.66	Yes
Gilsonite	\$ 1,628.57	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	43	\$272.64	No
5 1/2" Basket	\$ 1,493.94	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$243.20	Yes
CFL 117	\$ 1,003.20	Yes	Flo Seal	50	\$108.57	Yes
5 1/2" Turbolizer	\$ 566.74	Yes	KCL	2	\$64.84	Yes
Bulk Truck Matl-Material Service Charge	\$ 492.91	No				
Pump Truck Mileage-Job to Nearest Camp	\$ 465.92	No				
CD-110	\$ 416.91	Yes				
Mud Clear	\$ 401.71	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 16,264.46

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (2,439.67)

SubTotal for Taxable Items: \$ 11,935.35

SubTotal for Non-Taxable Items: \$ 1,889.44

Total: \$ 13,824.79

Tax: \$ 734.02

6.15% Rooks County Sales Tax

Thank You For Your Business!

Amount Due: \$ 14,558.81

Applied Payments:

Balance Due: \$ 14,558.81

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. 330

Date	8-20-14	Sec.	32	Twp.	9	Range	16	County	Boone	State	KS	On Location	1:30 AM	Finish	5:30 PM
------	---------	------	----	------	---	-------	----	--------	-------	-------	----	-------------	---------	--------	---------

Location Codell E to 28 RD W to

Lease Thomas Casey Well No. 2-32 Owner X RD 1 YU W Suto

Contractor Discovery 4 To Quality Oilwell Cementing, Inc.
Type Job 7 Stage Bottom You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 7 7/8 T.D. 304575 Charge To Sam Gary Jr & Assoc

Csg. 3 1/2 Depth 3569.27 Street Sam Gary Jr & Assoc

Tbg. Size _____ Depth _____ City _____ State _____

Tool _____ Depth _____ The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 42.44 Shoe Joint 42.44 Cement Amount Ordered 200 pro-c

Meas Line 15 1/2 # Displace 84.113L YuFlow Seal 10% Salt 5% G/I

EQUIPMENT

Pumptrk 20 No. 2 Cementer Matt Poz. Mix .8% CFL 117

Bulktrk 9 No. 1 Driver Cody Gel. _____

Bulktrk 94 No. 1 Driver Chad Calcium CD110 .96#

JOB SERVICES & REMARKS

Remarks: _____ Halls KCL 2 gal

Rat Hole 30545 Salt 17

Mouse Hole 15545 Flowseal 50#

Centralizers 135, 29, 13, 15, 53, 63 Kol-Seal 1000#

Baskets 3, 7, 15, 42 Mud CLR 48 500 gal

D/V or Port Collar 1780 #43 CFL-117 or CD110 CAF 38 .50#

Drops Bull Calculated Sand > 150#

I have run mud flush Handling 227

plus but mouse hole Mileage _____

make 155545 down **FLOAT EQUIPMENT**

hole displaced with Guide Shoe _____

36 water 45 mud Centralizer 9

Lift 700 Baskets 4

Land 1700 AFU Inserts _____

1 DV Tool Float Shoe 1

Botatus Head Latch Down 1

Pumptrk Charge prod string Bottom Stage

Mileage 43

Signature [Handwritten 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: 8/20/2014
 Invoice # 330 **← 331**
 P.O.#:
 Due Date: 9/19/2014
 Division: Russell

Invoice

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

DRLG COMP W/O LOE GG

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

Reference:

Thomas Casey 2-32

Description of Work:

prod string Top Stage

Services / Items Included:	Quantity	Price	Taxable
Labor		\$ 991.39	No
mon, MetsoBeads, Plater, Gel, FloSeal, Calcium)	375	\$ 7,784.57	Yes
Bulk Truck Matl-Material Service Charge	375	\$ 814.29	No
Bulk Truck Mileage-Job to Nearest Bulk Plant	43	\$ 272.64	No
Flo Seal	93	\$ 201.94	Yes

RECEIVED

AUG 25 2014

SAMUEL GARY JR.
& ASSOCIATES, INC.

Invoice Terms:

Net 30

SubTotal: \$ 10,064.83
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (1,509.72)

SubTotal for Taxable Items: \$ 6,788.54
 SubTotal for Non-Taxable Items: \$ 1,766.57

6.15% Rooks County Sales Tax

Total: \$ 8,555.11
 Tax: \$ 417.50

Thank You For Your Business!

Amount Due: \$ 8,972.61
Applied Payments:
Balance Due: \$ 8,972.61

Past Due Invoices are subject to a service charge (annual rate of 24%)
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 331

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

Date	8-20-14	Sec.	9	Range	16	County	Books	State	MS	On Location	9:30 AM	Finish	8:15 AM
Lease						Well No.		Owner					
Thomas Casey						2-32		1 1/4 W 5th to					
Contractor						To Quality Oilwell Cementing, Inc.							
Discovery						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						T.D.		Charge To					
2 Stage						top		Sam Gary Jr &					
Hole Size						Depth		City					
7 7/8						3569.77		State					
Csg.						Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
5 1/2								ASSOC.					
Tbg. Size						Depth		Cement Amount Ordered					
								375 Qmblc					
Tool						Shoe Joint		Cement					
						42.44		375 Qmblc					
Cement Left in Csg.						Displace		Common					
47.44						42.5 BBL		375 Qmblc					
Meas Line						Displace		Poz. Mix					
19 1/2						42.5 BBL		Gel.					
EQUIPMENT						No.		Calcium					
						Cementer		Hulls					
Pumptrk						No.		Salt					
20						1		Flowseal					
Bulktrk						No.		Kol-Seal					
13						1		Mud CLR 48					
Bulktrk						No.		CFL-117 or CD110 CAF 38					
pa						1		Sand					
JOB SERVICES & REMARKS						No.		Handling					
						Cementer		Mileage					
Remarks:						No.		FLOAT EQUIPMENT					
Rat Hole						No.		Guide Shoe					
Mouse Hole						No.		Centralizer					
Centralizers						No.		Baskets					
Baskets						No.		AFU Inserts					
D/V or Port Collar						No.		Float Shoe					
1780 #43						No.		Latch Down					
Dropped Bottom Circulated						No.		Pumptrk Charge					
2 hours mixed B75						No.		Mileage					
Qmblc Displace with						No.							
Water						No.							
Lift 500 PSI						No.							
Lift 1200 PSI						No.							
Cement did						No.							
Circulate						No.							
Signature						No.		Tax					
						No.		Discount					
						No.		Total Charge					



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Sam Gary Jr.
1515 Wynkoop
Suite 700 Denver Colorado
80202
ATTN: Chris Mitchell

Sec.32 - 9 s. - 16 w./ Rooks

Thomas Casey # 2-32

Job Ticket: 60496 **DST#: 1**

Test Start: 2014.08.17 @ 06:13:00

GENERAL INFORMATION:

Formation: **Toronto " A "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:07:30
 Time Test Ended: 14:04:00
 Interval: **3118.00 ft (KB) To 3180.00 ft (KB) (TVD)**
 Total Depth: 3180.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bob Hamel
 Unit No: 58
 Reference Elevations: 2032.00 ft (KB)
 2024.00 ft (CF)
 KB to GR/CF: 8.00 ft

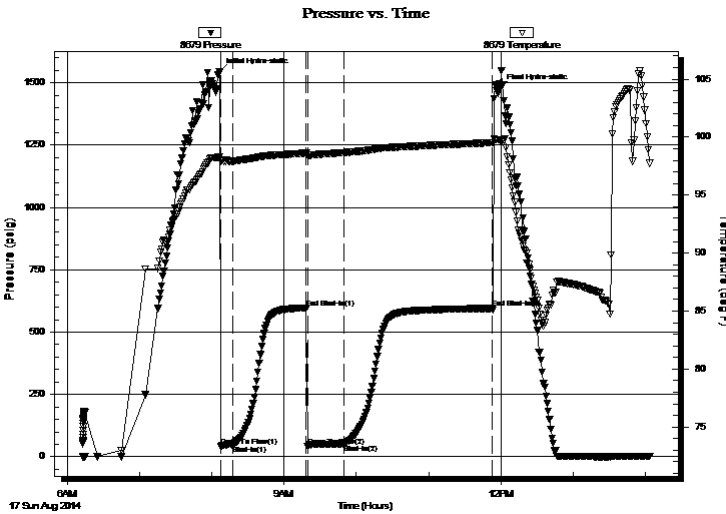
Serial #: 8679

Inside

Press@RunDepth: 52.19 psig @ 3156.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.17 End Date: 2014.08.17 Last Calib.: 2014.08.17
 Start Time: 06:13:01 End Time: 14:04:00 Time On Btm: 2014.08.17 @ 08:06:30
 Time Off Btm: 2014.08.17 @ 11:59:30

TEST COMMENT: I.F. - 10 - 1/4" INT. BLOW BUILT TO(3/4" IN 10 MIN.)
 I.S.I. - 60 - NO B.B.
 F.F. - 30 - 1/2" INT BLOW BUILT TO(8" IN 30 MIN.)
 F.S.I. - 120 - NO B.B.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1542.46	98.30	Initial Hydro-static
1	40.59	97.99	Open To Flow (1)
11	47.79	97.92	Shut-In(1)
72	597.37	98.64	End Shut-In(1)
73	42.68	98.43	Open To Flow (2)
104	52.19	98.67	Shut-In(2)
227	595.21	99.52	End Shut-In(2)
233	1477.01	99.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
69.00	M,C,O, 20%M 80%O	0.69
0.00	126 G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr.
1515 Wynkoop
Suite 700 Denver Colorado
80202
ATTN: Chris Mitchell

Sec.32 - 9 s. - 16 w./ Rooks
Thomas Casey # 2-32
Job Ticket: 60496 **DST#: 1**
Test Start: 2014.08.17 @ 06:13:00

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: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

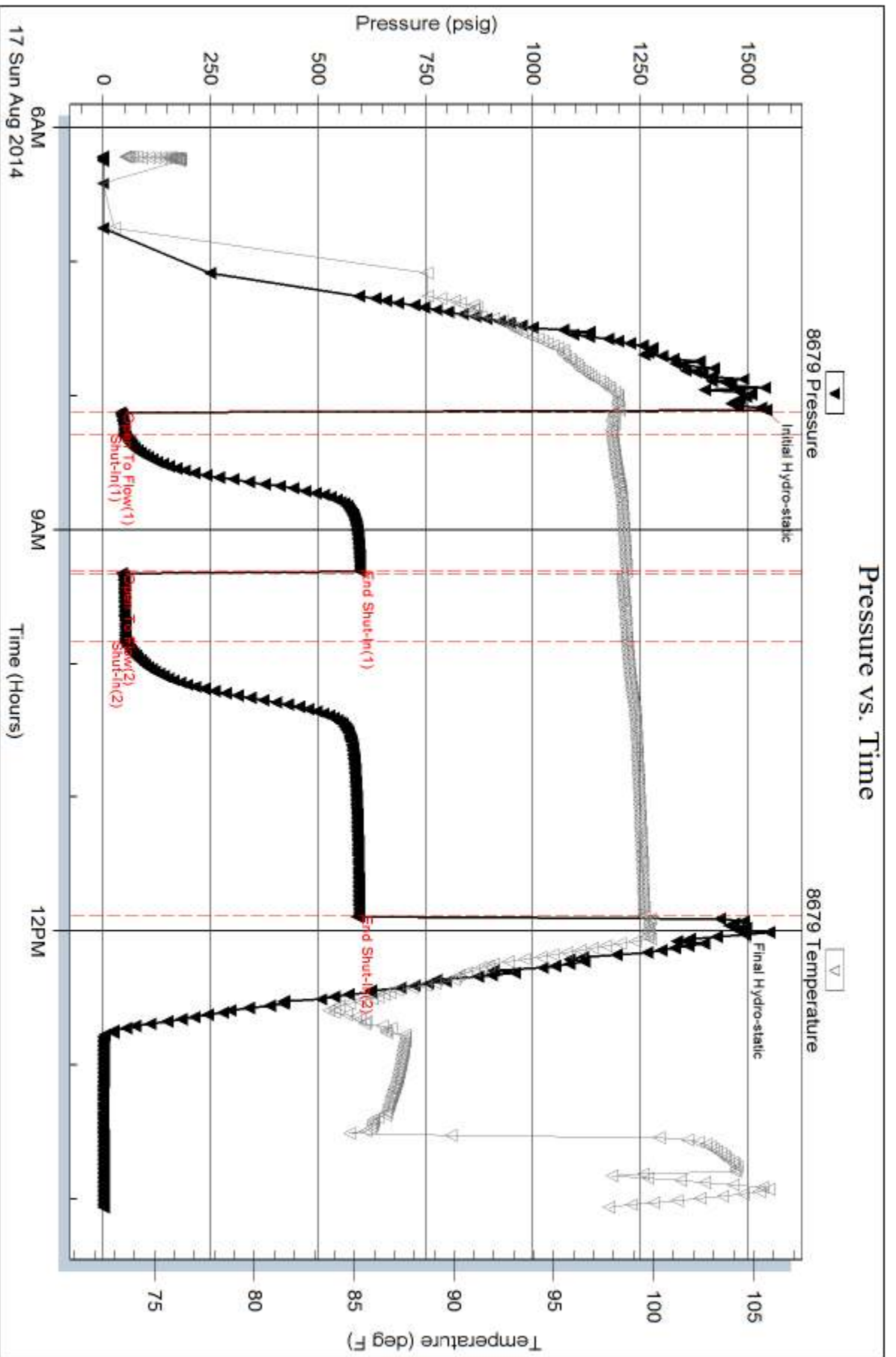
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
69.00	M ₂ C ₂ O ₂ , 20%M 80%O	0.695
0.00	126 G.I.P.	0.000

Total Length: 69.00 ft Total Volume: 0.695 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: SAMPLER DATA RECOVERY
 MUD 100 M.L. GAS 200 M.L. OIL 1,700 M.L.
 P.S.I. = 300

Pressure vs. Time



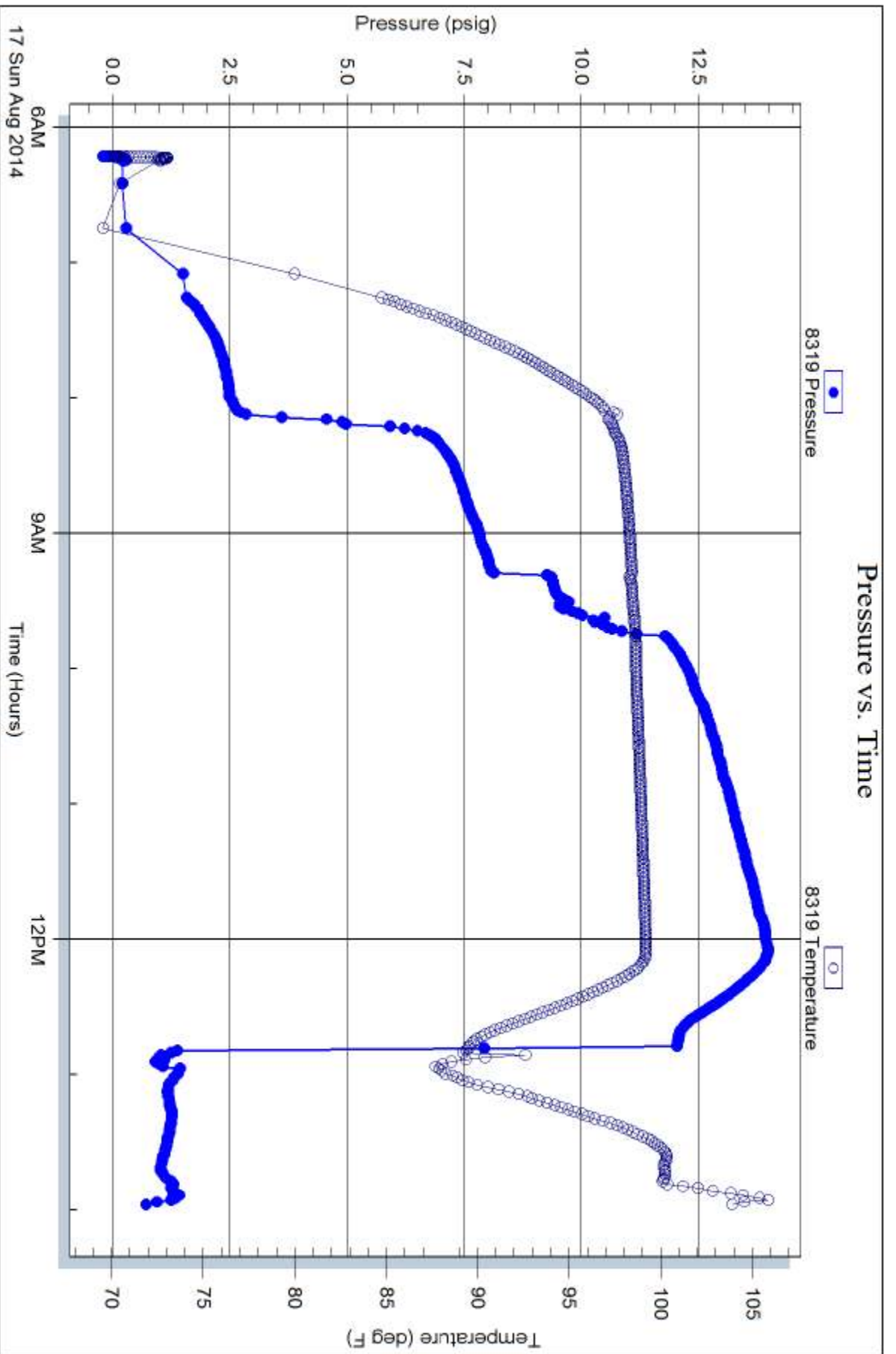
Serial #: 8319

Fluid

Sam Gary Jr.

Thomas Casey # 2-32

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 60496

Printed: 2014.08.17 @ 15:39:33



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Sam Gary Jr.
 1515 Wynkoop
 Suite 700 Denver Colorado
 80202
 ATTN: Chris Mitchell

Sec.32 - 9 s. - 16 w./ Rooks

Thomas Casey # 2-32

Job Ticket: 60497 **DST#: 2**

Test Start: 2014.08.18 @ 03:00:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:19:00

Time Test Ended: 10:37:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 58

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

Total Depth: 3285.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2032.00 ft (KB)

2024.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8679

Inside

Press@RunDepth: 93.01 psig @ 3271.00 ft (KB)

Start Date: 2014.08.18

End Date: 2014.08.18

Start Time: 03:00:01

End Time: 10:37:30

Capacity: 8000.00 psig

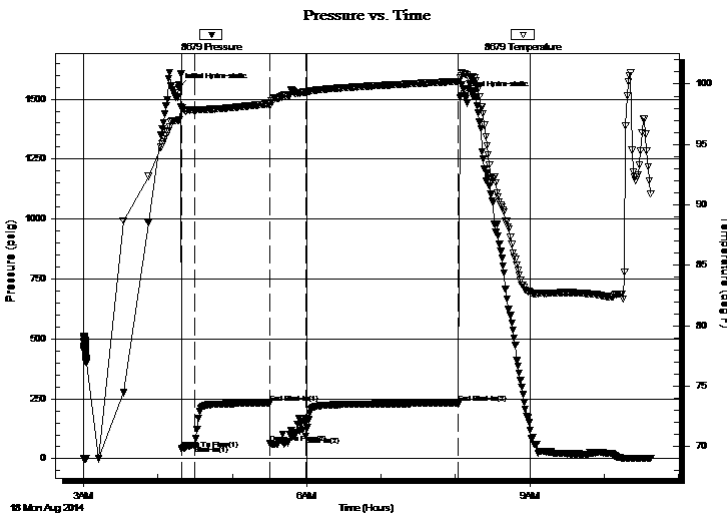
Last Calib.: 1899.12.30

Time On Btm: 2014.08.18 @ 04:17:00

Time Off Btm: 2014.08.18 @ 08:04:30

TEST COMMENT: I.F. - 10 - 1/2" INT. BLOW BUILT TO (2" IN 10 MIN.)
 I.S.I. - 60 - NO B.B.
 F.F. - 30 - 1/4" INT BLOW BUIT TO (2 1/2" IN 30 MIN.)
 F.S.I. - 120 - NO B.B.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1548.68	97.03	Initial Hydro-static
2	41.11	97.93	Open To Flow (1)
13	57.44	97.82	Shut-In(1)
73	232.25	98.37	End Shut-In(1)
74	63.15	98.24	Open To Flow (2)
103	93.01	99.31	Shut-In(2)
225	231.34	100.22	End Shut-In(2)
228	1513.74	100.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	S,O,C,M, 1%O 99%M	0.57
0.00	126' G.I.P.	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr.
1515 Wynkoop
Suite 700 Denver Colorado
80202
ATTN: Chris Mitchell

Sec.32 - 9 s. - 16 w./ Rooks
Thomas Casey # 2-32
Job Ticket: 60497 **DST#: 2**
Test Start: 2014.08.18 @ 03:00:00

Mud and Cushion Information

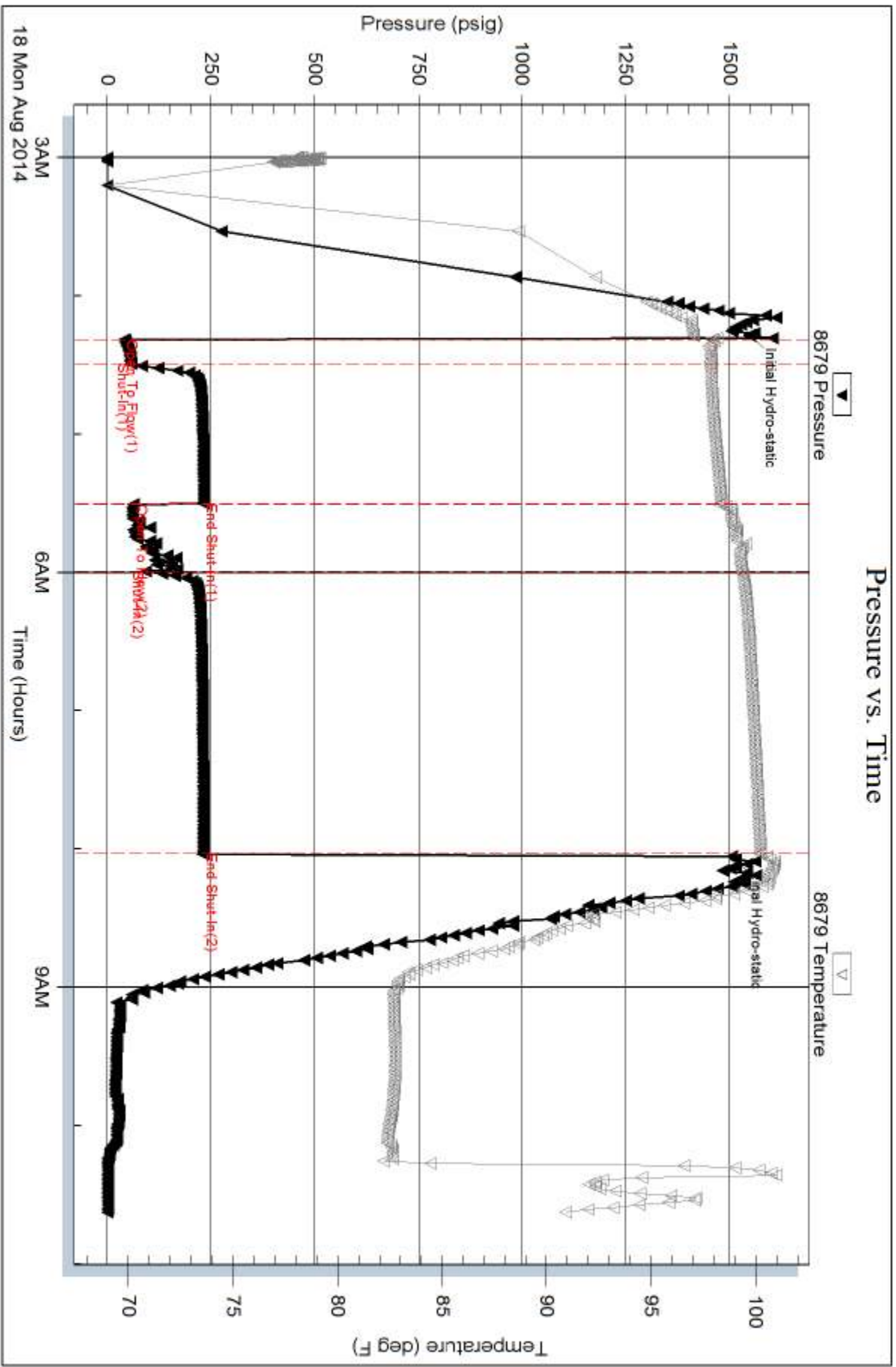
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	S,O,C,M, 1%O 99%M	0.568
0.00	126' G.I.P.	0.000

Total Length: 60.00 ft Total Volume: 0.568 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: SAMPLER RECOVERY
 OIL 800 M.L. MUD 1200 M.L. 200 P.S.I.



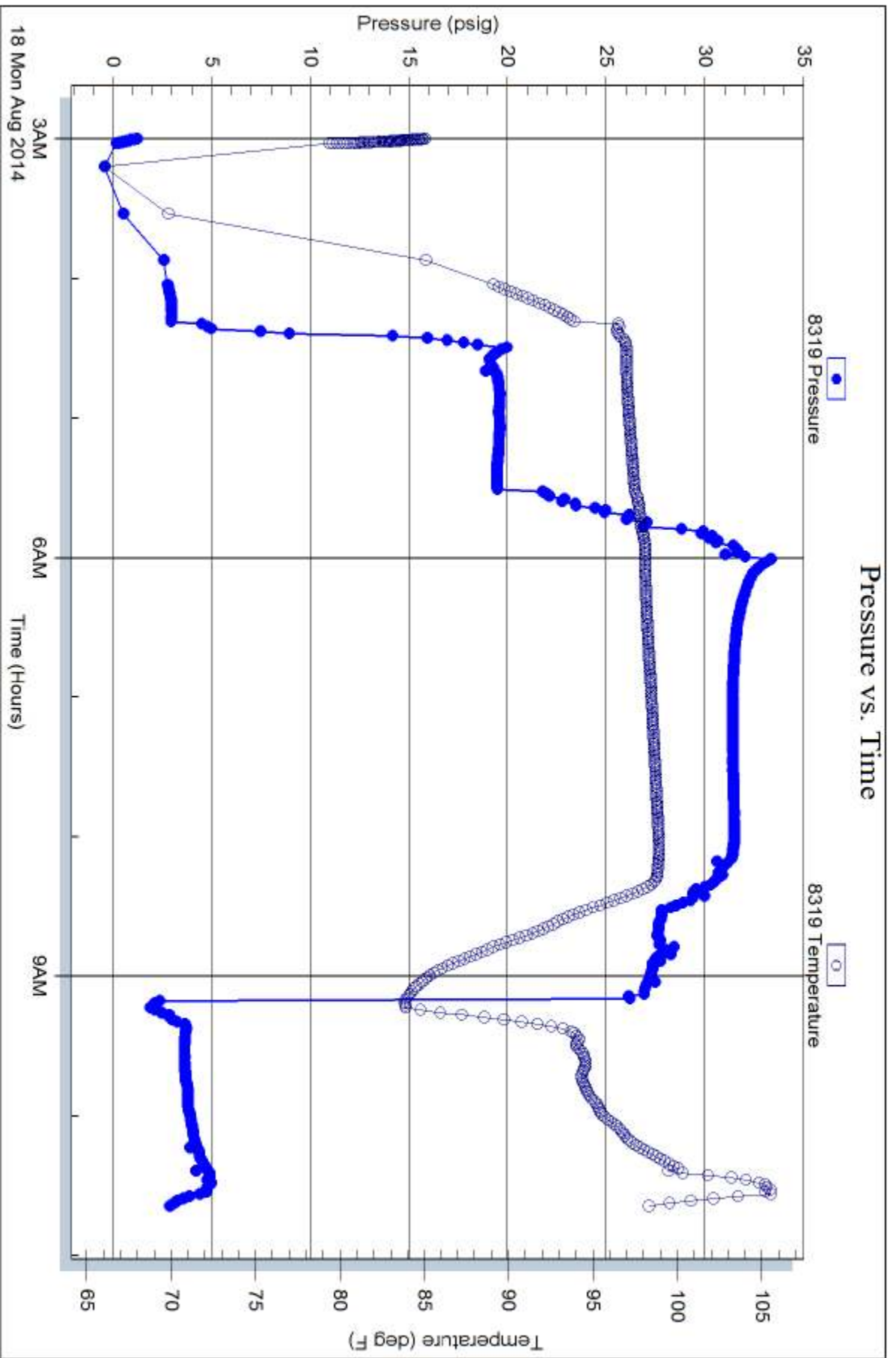
Serial #: 8319

Fluid

Sam Gary Jr.

Thomas Casey # 2-32

DST Test Number: 2





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

Well Name: Thomas Casey 2-23
Location: Sec. 23 9S 16W Rooks County, Kansas
License Number: 15-163-24245-0000
Spud Date: Aug 13, 2014
Surface Coordinates: 1940' FNL & 370' FEL
Region: Wildcat
Drilling Completed: Aug 19, 2014

Bottom Hole Coordinates:
Ground Elevation (ft): 2024' **K.B. Elevation (ft):** 2032'
Logged Interval (ft): 2850' **To:** 3575' **Total Depth (ft):** 3575'
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: Chris Mitchell

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**

	DRILL STEM TEST REPORT																																					
	Sam Gary Jr. 1515 Wynkoop Suite 700 Denver Colorado 80202 ATTN: Chris Mitchell	Sec.32 - 9 s. - 16 w./ Rooks Thomas Casey # 2-32 Job Ticket: 60496 DST#: 1 Test Start: 2014.08.17 @ 06:13:00																																				
GENERAL INFORMATION:																																						
Formation: Toronto " A " Deviated: No Whipstock: ft (KB) Time Tool Opened: 08:07:30 Time Test Ended: 14:04:00 Interval: 3118.00 ft (KB) To 3180.00 ft (KB) (TVD) Total Depth: 3180.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Good		Test Type: Conventional Bottom Hole (Initial) Tester: Bob Hamel Unit No: 58 Reference Elevations: 2032.00 ft (KB) 2024.00 ft (CF) KB to GR/CF: 8.00 ft																																				
Serial #: 8679 Inside Press@RunDepth: 52.19 psig @ 3156.00 ft (KB) Start Date: 2014.08.17 End Date: 2014.08.17 Start Time: 06:13:01 End Time: 14:04:00		Capacity: 8000.00 psig Last Calib.: 2014.08.17 Time On Btm: 2014.08.17 @ 08:06:30 Time Off Btm: 2014.08.17 @ 11:59:30																																				
TEST COMMENT: I.F. - 10 - 1/4" INT. BLOW BUILT TO(3/4" IN 10 MIN.) I.S.I. - 60 - NO B.B. F.F. - 30 - 1/2" INT BLOW BUILT TO(8" IN 30 MIN.) F.S.I. - 120 - NO B.B.																																						
	PRESSURE SUMMARY																																					
	<table border="1"> <thead> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr><td>0</td><td>1542.46</td><td>98.30</td><td>Initial Hydro-static</td></tr> <tr><td>1</td><td>40.59</td><td>97.99</td><td>Open To Flow (1)</td></tr> <tr><td>11</td><td>47.79</td><td>97.92</td><td>Shut-in(1)</td></tr> <tr><td>72</td><td>597.37</td><td>98.64</td><td>End Shut-in(1)</td></tr> <tr><td>73</td><td>42.68</td><td>98.43</td><td>Open To Flow (2)</td></tr> <tr><td>104</td><td>52.19</td><td>98.67</td><td>Shut-in(2)</td></tr> <tr><td>227</td><td>595.21</td><td>99.52</td><td>End Shut-in(2)</td></tr> <tr><td>233</td><td>1477.01</td><td>99.70</td><td>Final Hydro-static</td></tr> </tbody> </table>	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1542.46	98.30	Initial Hydro-static	1	40.59	97.99	Open To Flow (1)	11	47.79	97.92	Shut-in(1)	72	597.37	98.64	End Shut-in(1)	73	42.68	98.43	Open To Flow (2)	104	52.19	98.67	Shut-in(2)	227	595.21	99.52	End Shut-in(2)	233	1477.01	99.70	Final Hydro-static	
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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Sam Gary Jr.

Sec.32 - 9 s. - 16 w./ Rooks

1515 Wynkoop
Suite 700 Denver Colorado
80202
ATTN: Chris Mitchell

Thomas Casey # 2-32

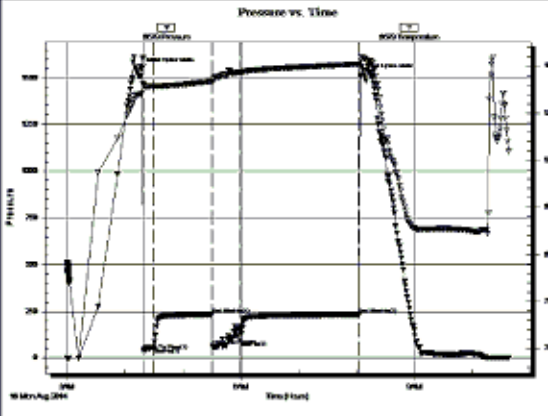
Job Ticket: 60497 DST#: 2
Test Start: 2014.08.18 @ 03:00:00

GENERAL INFORMATION:

Formation: **LANS. "F - G"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:19:00
Time Test Ended: 10:37:30
Test Type: Conventional Bottom Hole (Reset)
Tester: Bob Hamel
Unit No: 58
Interval: **3235.00 ft (KB) To 3285.00 ft (KB) (TVD)**
Total Depth: 3285.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2032.00 ft (KB)
2024.00 ft (CF)
KB to GRVCF: 8.00 ft

Serial #: 8679 Inside
Press@RunDepth: 93.01 psig @ 3271.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.08.18 End Date: 2014.08.18 Last Calib.: 1899.12.30
Start Time: 03:00:01 End Time: 10:37:30 Time On Btm: 2014.08.18 @ 04:17:00
Time Off Btm: 2014.08.18 @ 08:04:30

TEST COMMENT: I.F. - 10 - 1/2" INT. BLOW BUILT TO (2" IN 10 MIN.)
I.S.I. - 60 - NO B.B.
F.F. - 30 - 1/4" INT BLOW BUILT TO (2 1/2" IN 30 MIN.)
F.S.I. - 120 - NO B.B.



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1548.68	97.03	Initial Hydro-static
2	41.11	97.93	Open To Flow (1)
13	57.44	97.82	Shut-in(1)
73	232.25	98.37	End Shut-in(1)
74	63.15	98.24	Open To Flow (2)
103	93.01	99.31	Shut-in(2)
225	231.34	100.22	End Shut-in(2)
228	1513.74	100.64	Final Hydro-static

Length (ft)	Description	Volume (bbl)
60.00	S.O.C.M. 1%O 99%M	0.57
0.00	126' G.I.P.	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
- r Subrnd
- a Subang

- A Angular

OIL SHOWS

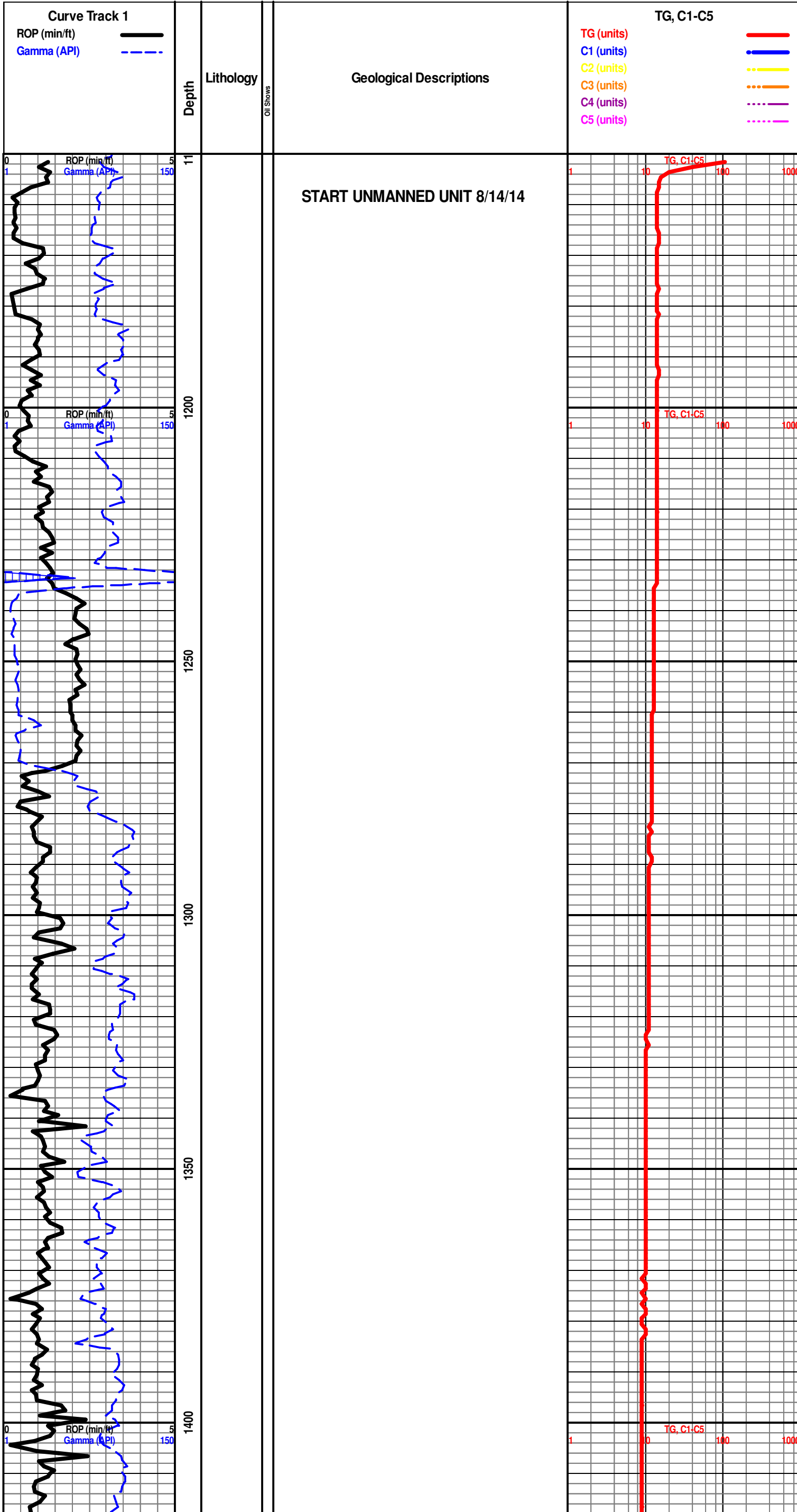
- Even
- ◐ Spotted
- ◑ Ques
- ◒ Dead
- ⊠ Gas show

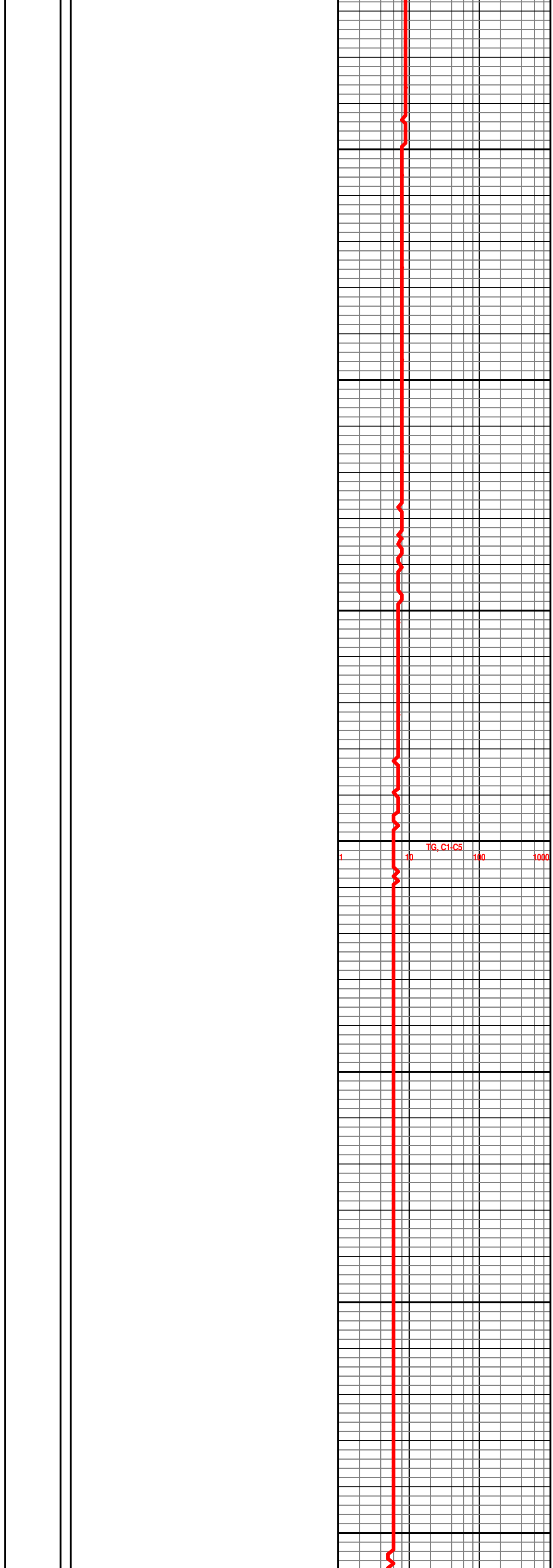
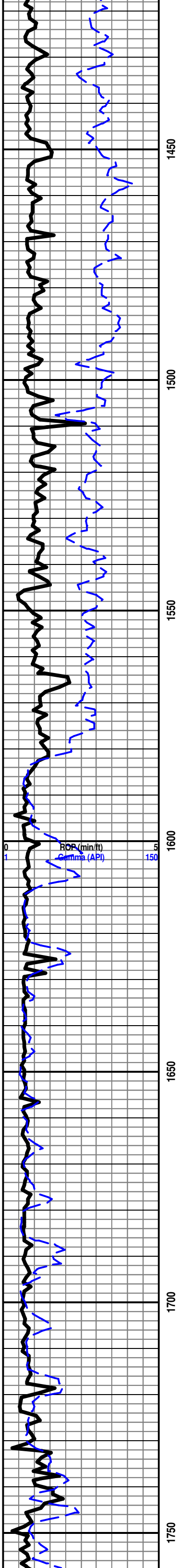
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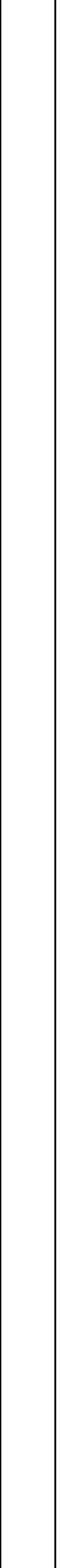
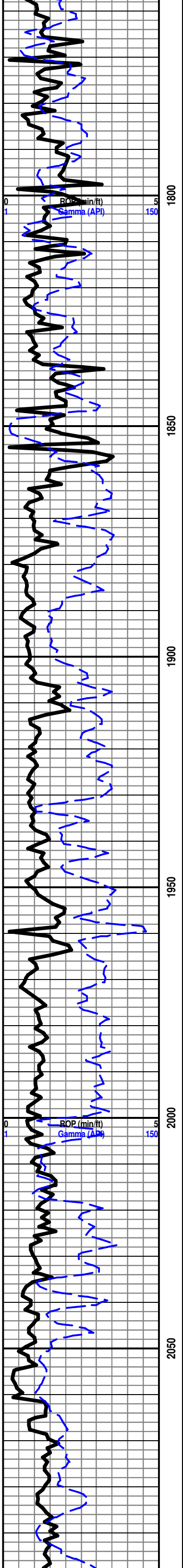
- Core
- Dst
- Dst

EVENTS

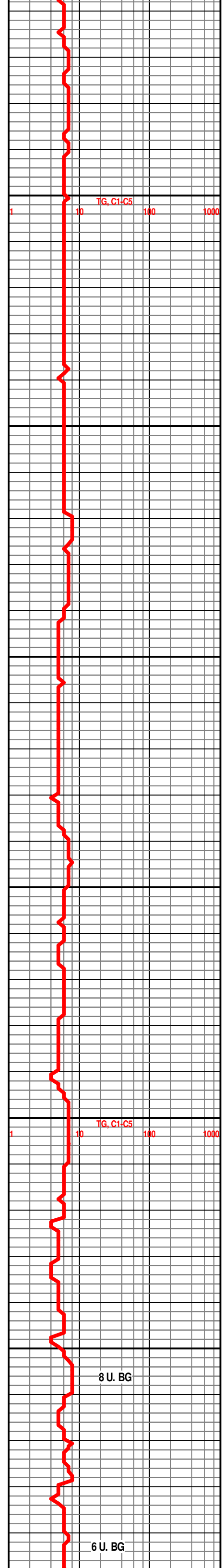
- ▤ Rft
- ▥ Sidewall

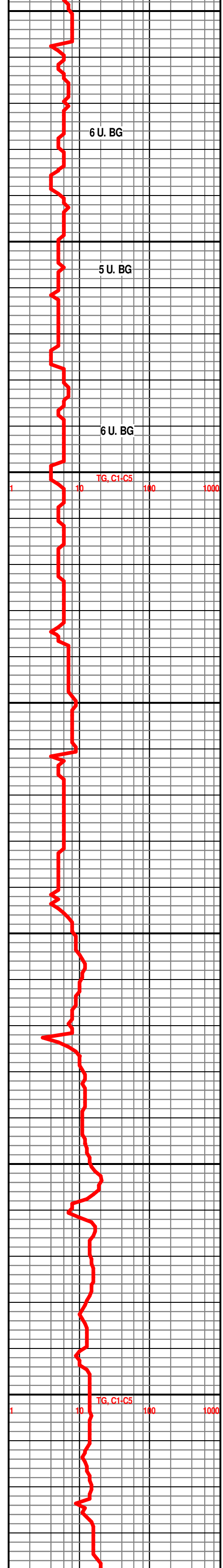
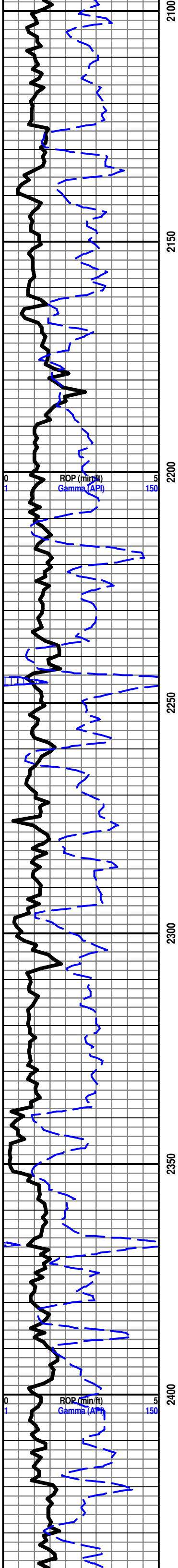


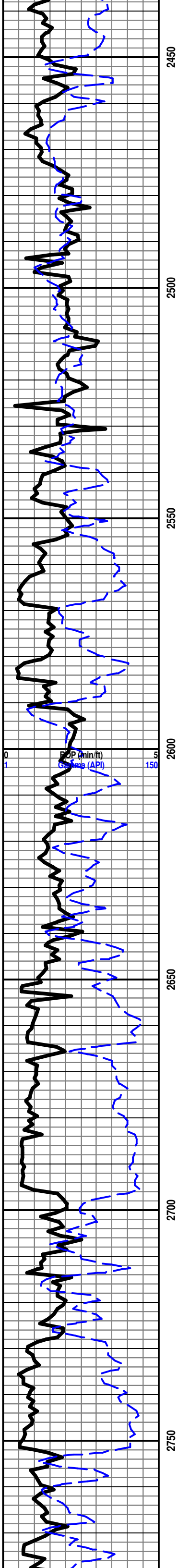




WINFIELD 2012' +20'







2450

2500

2550

2600

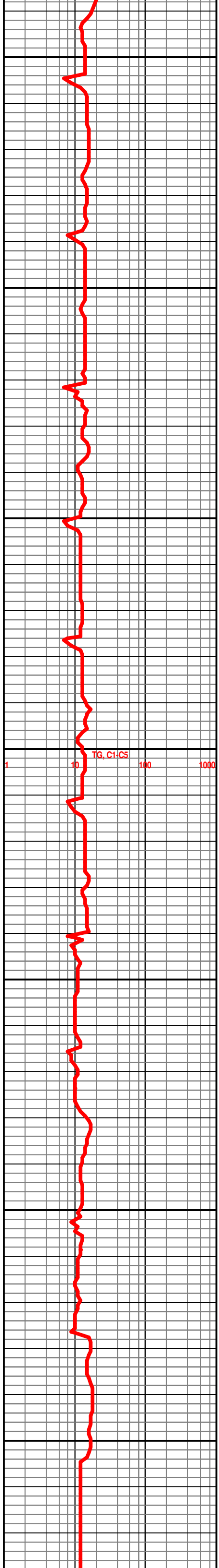
2650

2700

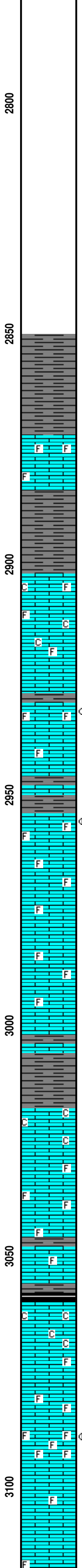
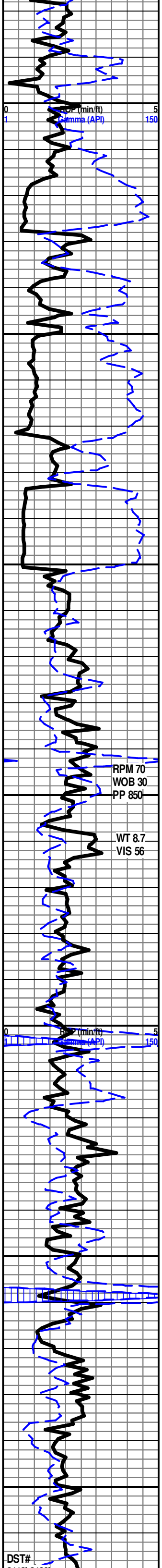
2750

P (min/ft)
Gamma (API)

BRS 2706' -674'



TG, C1-C5



ELMONT 2828' -796'

START 24 HOUR MANNED UNIT 8/15/14

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

LS- TN TO DK TN, HD DNS TO BRIT IP, V/F TO XLN, S-CHLKY IP, IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

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

TOPEKA 2929' -897'

2931'-2934' (2 ROCKS) LS- CRM LT TN TO TN W/ TN OIL STN IN 10%, HD DNS TO BRIT IP, V/F TO F XLN RE-XLN MTRX, S-CHLKY, SCAT IMBD FOSS FRG IP, DUL YEL GLD FLO IN 10%, V/PR INTR XLN POR IN 1%, FR FLSH CUT IN 10%, FR TO GD SLW STRM IN 10%

SGA TOPEKA 2954' -922'

2955'-2957' LS- CRM TO LT TN W/ TN OIL STN IN 60%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, IMBD FOSS FRG IP, DUL YEL GLD FLO IN 60%, TT PP POR IN 3%, GD FLSH CUT IN 60%, GD SLW STRM IN 60%, TN LCH ON DISH

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

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

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

LE COMPTON 3018' -986'

LS- OFF WHT TO CRM, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

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

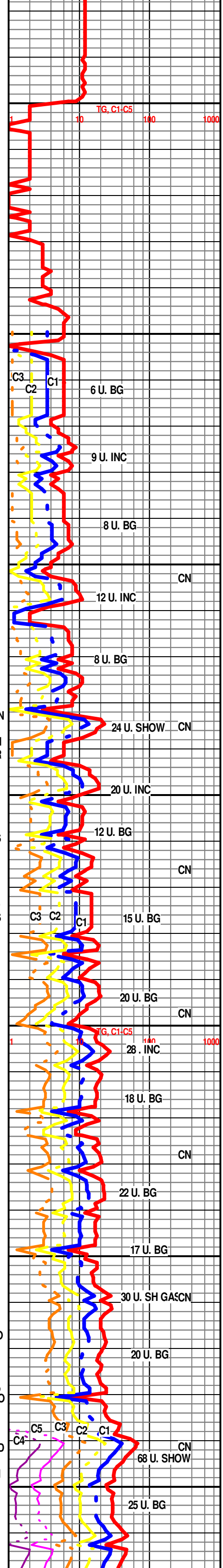
SH- BLK, SFT, CARB

LS- OFF WHT TO CRM, HD DNS TO BRIT, V/F TO F XLN CHLKY MTRX, S-SUCRO IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

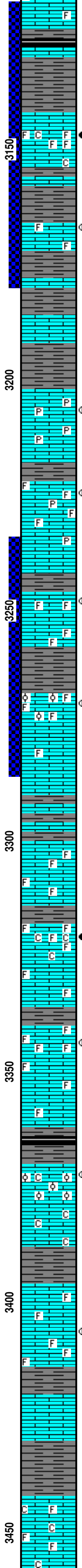
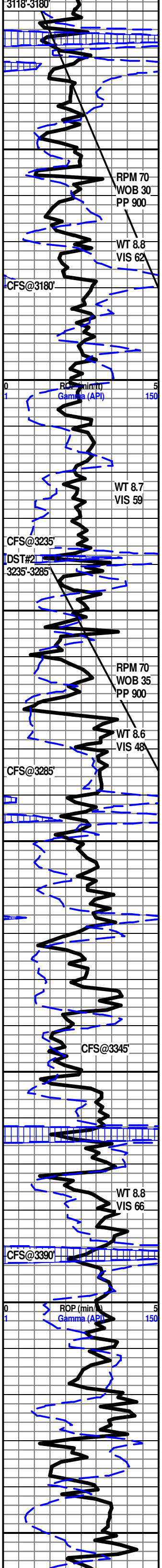
LS- CRM LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN RE-XLN MTRX, S-CHLKY IP, SCAT IMBD FOSS FRG THRU, TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

3089'-3093' LS- CRM TO LT TN W/ TN OIL STN IN 50%, HD DNS TO BRIT, ABTD IMBD FOSS FRG THRU, BRT YEL GLD FLO IN 50%, FR INTR FOSS POR IN 5%, GD FLSH CUT IN 50%, FR TO GD MLKY BLU SLW STRM IN 50%, TN LCH ON DISH, FR SLFR ODOR

LS- CRM LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, SCAT IMBD FOSS FRG IP, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR NO VIS SHOW, STRG SULFUR ODOR



DST#



HEEBNER 3125' -1193'

SH- BLCK, SFT, CARB
 SH - BRWN GY TO DK GY, FRM BLKY TO SPLNTY, SMTH TXT
 3146'-3148' LS- OFF WHT TO CRM W/ TN OIL STN IN 70%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABTD IMBD FOSS FRG IP, TR SFT WHT CHK IN TRAY, BRT YEL GLD FLO IN 70%, FR FLSH CUT IN 70%, FR TO GD INTR FOSS POR IN 4%, FR TO GD SLW STRM IN 70%, TN LCH ON DISH

LANSING 3165' -1133'

3176'-3178' LS- CRM TO LT TN W/ TN OIL STN IN 65%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, IMBD FOSS FRG IP, BRT YEL GLD FLO IN 65%, PR INTR FOSS POR IN 1%, TT MICRO VUG POR IN 3%, FR TO GD VUG POR IN 2%, FR FLSH CUT IN 65%, PR TO FR SLW STRM IN 65%, TN LCH ON DISH, WK SULFUR ODOR
 LS- OFF WHT TO CRM, HD DNS TO BRIT, V/F TO F XLN MTRX, S-CHLKY IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- BRWN GY TO DK GY, FRM BLKY, SMTH TXT
 3205'-3208' LS- CRM TO LT TN W/ TN OIL STN IN 70%, HD DNS TO BRIT IP, V/F TO F XLN MTRX, RE-XLN IP, ABTD PYR IN TRAY, DUL YEL GLD FLO IN 60%, BRT YEL GLD FLO IN 10%, PR INTR XLN POR IN 2%, PR TO FR VUG POR IN 2%, FR FLSH CUT IN 70%, PR TO FR SLW STRM IN 70%, LT TN LCH ON DISH

LANSING "D" 3221' -1189'

3222'-3223' LS- LT TN TO TN W/ TN OIL STN IN 60%, HD DNS TO BRIT IP, V/F TO F XLN RE-XLN MTRX, ABTD IMBD FOSS FRG IP, TR IMBD CALC XLS IP, TR PYR IN TRAY, BRT YEL GLD FLO IN 60%, PR TO FR INTR FOSS POR IN 3%, FR VUG POR IN 3%, FR FLSH CUT IN 65%, FR TO GD SLW STRM IN 65%, TN LCH ON DISH

LANSING "F" 3246' -1214'

3247'-3249' LS- TN TO DK TN W/ TN OIL STN IN 50%, HD DNS TO BRIT IP, V/F TO F XLN MTRX, IMBD FOSS FRG THRU, BRT YEL GLD FLO IN 50%, PR TO FR INTR FOSS POR IN 3%, TT PP POR IN 3%, WK FLSH CUT IN 50%, PR TO FR SLW STRM IN 50%, NO LCH ON DISH

3269'-3272' LS- WHT OFF WHT TO LT TN W/ TN OIL STN IN 50%, HD DNS TO BRIT IP, ABTD IMBD FOSS FRG IP, ABTD IMBD OOL IP, BRT YEL GLD FLO IN 50%, PR TO FR INTR OOL/FOSS POR IN 3%, PR VUG PRO IN 2%, WK FLSH CUT IN 30%, PR SLW STRM IN 50%, NO LCH ON DISH

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

LANSING "H" 3300' -1268'

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

3321'-3323' LS- CRM TO LT TN W/ TN OIL STN IN 75%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, ABTD IMBD FOSS FRG THRU, SFT WHT CHLK IN TRAY, BRT YEL GLD FLO IN 75%, FR TO GD INTR FOSS POR IN 6%, GD FLSH CUT IN 80%, GD MLKY BLU SLW STRM IN 80%, TN LCH ON DISH

3341'-3344' LS- CRM TO LT TN W/ TN OIL STN IN 65%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, IMBD FOSS FRG THRU, DUL YEL GLD FLO IN 65%, FR TO GD INTR FOSS POR IN 3%, FR TO GD VUG POR IN 4%, FR FLSH CUT IN 65%, FR TO GD SLW STRM IN 70%, TN LCH ON DISH

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

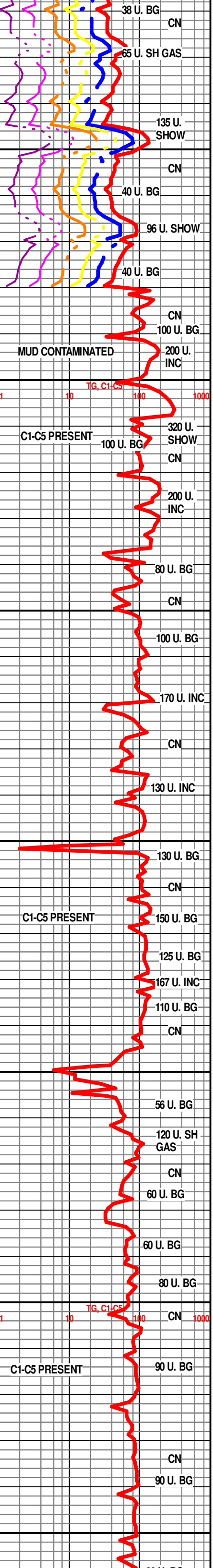
3372'-3376' LS- OFF WHT TO CRM W/ TN OIL STN IN 50%, HD DNS TO BRIT, V/F TO FR XLN SUCRO MTRX, ABTD IMBD OOL THRU, SFT WHT CHLK IN TRAY, BRT YEL GLD FLO IN 60%, FR TO GD INTR OOL POR IN 5%, V/GD FLSH CUT IN 60%, V/GD MLKY BLU SLW STRM IN 60%, TN LCH ON DISH

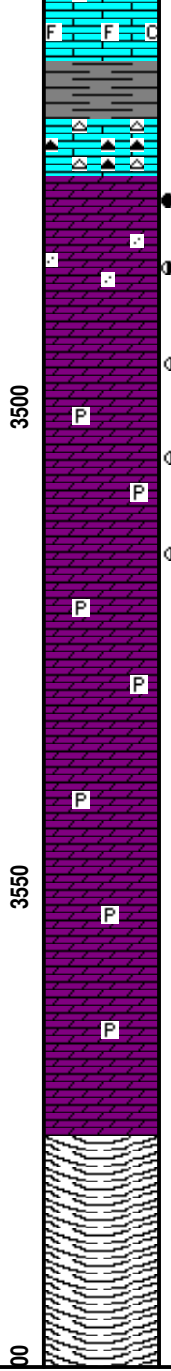
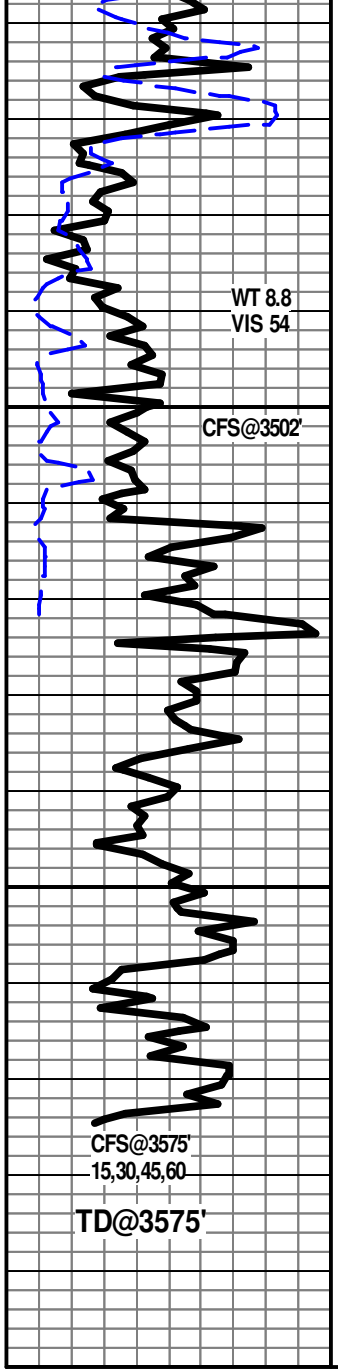
SH- BRWN TO GY, FRM BLKY, SMTH TXT
 3406'-3408' LS- LT TN TO TN W/ TN OIL STN IN 50%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, IMBD FOSS FRG IP, BRT YEL GLD FLO IN 50%, PR INTR XLN POR IN 2%, FR VUG POR IN 1%, GD FLSH CUT IN 50%, FR TO GD SLW STRM IN 50%, TN LCH ON DISH

BKC 3413' -1381'

SH- BRWN GY TO DK GY, FRM BLKY, SMTH TXT
 SH- LT TN TO TN, HD DNS TO BRIT IP, V/F TO FN XLN SUCRO MTRX, NO VIS FLO, NO VIS POR, NO VIS SHOW
 SH- BRWN TO GY, FRM BLKY TO SFT GMMY, SMTH TO SLTY TXT

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





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

ARBUCKLE 3475' -1443'

3477'-3479' DOLO- CRM TO LT TN W/ TN OIL STN IN IN 95%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO ANG DOLO GRNS THRU, DUL YEL GLD FLO THRU, PR TO FR INTR GRN POR IN 15%, FR TO GD VUG POR IN 2%, WK SLW STRM IN 60%, PR TO FR SLW STRM IN 80%, TN LCH ON DISH, SULFUR ODOR

3484'-3485' DOLO- TN TO DK TN W/ TN OIL STN IN 80%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO ANG DOLO GRNS THRU, SCAT SIL CMNT MD TO LRG S-RND TO S-ANG QRTZ XLS W/ OIL STN, DUL YEL GLD FLO IN 80%, PR TO FR INTR XLN/GRN POR IN 10%, NO FLSH CUT, PR TO FR SLW STRM IN 50%, NO LCH ON DISH, SULFUR ODOR

3495'-3496' DOLO- TN TO DK TN W/ TN OIL STN IN 60%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO ANG DOLO GRNS THRU, BRT YEL GLD FLO IN 60%, PR TO FR INTR GRN POR IN 10%, WK FLSH CUT IN 30%, PR TO FR SLW STRM IN 60%, LT TN LCH ON DISH,

3505'-3506' DOLO- TN TO DK TN W/ TN OIL STN IN 40%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO ANG DOLO GRNS THRU, TR DISS PYR IP, BRT YEL GLD FLO IN 40%, PR INTR GRN POR IN 7%, NO FLSH CUT, PR SLW STRM IN 20%, NO LCH ON DISH

3514'-3516' DOLO- OFF WHT LT TN TO TN W/ TN OIL STN IN 50%, HD DNS TO BRIT IP, V/F TO FN XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO ANG DOLO GRNS THRU, TR IMBD DISS PYR IP, BRT YEL GLD FLO IN 50%, PR TO FR INTR GRN POR IN 10%, NO FLSH CUT, WK SLW STRM IN 20%, NO LCH ON DISH, WK SULFUR ODOR

R.T.D. @ 10:15 AM 8/19/14
 CTCH 1.5 HOURS
 DROP SURVEY
 TOFL
 WEATHERFORD/ LIBERAL

