KOLAR Document ID: 1453382

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5004
Name: Vincent Oil Corporation
Address 1: 200 W DOUGLAS AVE #725
Address 2:
City: WICHITA State: KS Zip: 67202 + 3023
Contact Person: M.L. Korphage
Phone: (316) 262-3573
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Jim Hall
Purchaser: Oneok

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ WSW ☐ SWD
☑ Gas ☐ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

11/14/2018 Spud Date or Recompletion Date
11/25/2018 Date Reached TD
2/9/2019 Completion Date or Recompletion Date

API No.: 15-095-22327-00-00
Spot Description:
SE - NE - SW - SW Sec. 14 Twp. 28 S. R. 8 ☐ East ☑ West
982 Feet from ☐ North / ☑ South Line of Section
1277 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Kingman
Lease Name: FAIRCHILD Well #: 3-14
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 1600 Kelly Bushing: 1608
Total Vertical Depth: 4480 Plug Back Total Depth: 4478
Amount of Surface Pipe Set and Cemented at: 315 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: 32000 ppm Fluid volume: 1800 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Wildcat Oil & Gas LLC
Lease Name: Adelhart SWD 1-7 License #: 31337
Quarter SW Sec. 7 Twp. 30 S. R. 8 ☐ East ☑ West
County: Kingman Permit #: D30389

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: 03/11/2019
☐ **Confidential Release Date:** 03/10/2021
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 03/11/2019

Operator Name: Vincent Oil Corporation Lease Name: FAIRCHILD Well #: 3-14

Sec. 14 Twp. 28 S. R. 8 ☐ East ☑ West County: Kingman

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 *(Attach Additional Sheets)*	☑ Yes	☐ No	
Samples Sent to Geological Survey	☑ Yes	☐ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	315	60 / 40 Poz	275	2% Gel, 3% CC & 1/4# Flo-seal/sx
Production	7.875	4.5	10.5	4478	Common	200	2% Ge, 10% salt & 5# Kol-seal/sx

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection:	Producing Method:
2/9/2019	☑ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		400			

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:	
		Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	4033	4046

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
Attached	Attached	Attached	Attached	Attached	Attached

TUBING RECORD:	Size:	Set At:	Packer At:
	2.3750	4049	

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	FAIRCHILD 3-14
Doc ID	1453382

All Electric Logs Run

Dual Induction
Density - Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	FAIRCHILD 3-14
Doc ID	1453382

Tops

Name	Top	Datum
Onaga Shale	2180	(-574)
Topeka	2762	(-1154)
Heebner Shale	3149	(-1541)
Brown Limestone	3355	(-1747)
Lansing	3366	(-1758)
Stark Shale	3699	(-2091)
Hertha	3746	(-2138)
Cherokee Shale	3943	(-2385)
Mississippian	4033	(-2425)
Mississippian Limestone	4138	(-2530)
Kinderhook Shale	4242	(-2634)
Viola	4395	(-2787)
Simpson Sand	4431	(-2823)
RTD	4480	(-2872)

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	FAIRCHILD 3-14
Doc ID	1453382

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSetAt	Material Record
4	4033	4046			Perforated, ran in with 15' MA, a seating nipple and 109 joints of tubing. set tubing at 4049'.
					Acidized with 1000 gal 15% MCA, 83 bbls of load, rigged up to swab.
					Swabbed back 57 bbls & well kicked off flowing, swabbed total of 70 bbls, SDFN
					Blew down tubing, rigged up to swab, FL at 1300'. Well Kicked of flowing Inital rate 2.0 MMCFD on 1/2" choke

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	FAIRCHILD 3-14
Doc ID	1453382

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSetAt	Material Record
					Rate stabilized in 3rd hr at 942 MCF tubing pressure 640# & casing pressure 930#
					SIW, laid gas lines, set meter and turned to production 2/9/2019.

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	FAIRCHILD 3-14
Doc ID	1453382

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	315	60 / 40 Poz	275	2% Gel, 3% CC & 1/4# Flo-seal/sx
Production	7.875	4.5	10.5	4478	Common	200	2% Ge, 10% salt & 5# Kol-seal/sx

Quality Well Service, Inc.

PO Box 468
Pratt, KS 67124

Invoice

Date	Invoice #
11/16/2018	C-1892

Ref. Ticket # 6977

Bill To
Vincent Oil Corporation 200 W. Douglas, Ste. 725 Wichita, KS 67202

P.O. No.	Terms	Lease Name
		Fairchild #3-14

Description	Qty	Rate	Amount
Common	165	15.50	2,557.50
Poz	110	9.50	1,045.00
Gel	5	22.00	110.00
Calcium	9	60.00	540.00
Flo-Seal	68.75	3.70	254.38
SFC 0-500'	1	600.00	600.00
Handling	289	2.10	606.90
.08 * sacks * miles	8,500	0.08	680.00
Service Supervisor	1	150.00	150.00
LMV	30	3.75	112.50
Heavy Equipment Mileage	60	8.00	480.00
Customer Discount		-2,497.69	-2,497.69
Discount Expires after30 days from the date of the invoice		0.00	0.00
Fairchild #3-14 Kingman Co.			

Cement surface Pipe

199-500

Thank You for your business!

Subtotal	$4,638.59
Sales Tax (8.0%)	$0.00
Total	$4,638.59

QUALITY WELL SERVICE, INC.

6977

Federal Tax I.D. # 481187368
Home Office 30060 N. Hwy 281, Pratt, KS 67124
Mailing Address P.O. Box 468

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish

Lease	Well No.	Location

Contractor		Owner	
Type Job		To Quality Well Service, 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	T.D.		
Csg.	Depth	Charge To	
Tbg. Size	Depth	Street	
Tool	Depth	City State	
Cement Left in Csg.	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.	
Meas Line	Displace	Cement Amount Ordered	

EQUIPMENT			
Pumptrk	No.		
Bulktrk	No.		
Bulktrk	No.		
Pickup	No.		

JOB SERVICES & REMARKS			
Rat Hole		Common	
Mouse Hole		Poz. Mix	
Centralizers		Gel.	
Baskets		Calcium	
D/V or Port Collar		Hulls	
		Salt	
		Flowseal	
		Kol-Seal	
		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	
X Signature		Total Charge	

Quality Well Service, Inc.

PO Box 468
Pratt, KS 67124

Invoice

Date	Invoice #
11/27/2018	C-1901

Ref. Ticket #6985

Bill To
Vincent Oil Corporation 200 W. Douglas, Ste. 725 Wichita, KS 67202

P.O. No.	Terms	Lease Name
		Fairchild #3-14

Description	Qty	Rate	Amount
Pro-C	250	18.00	4,500.00T
Gel	5	22.00	110.00T
Salt	28	13.00	364.00T
Kol-Seal	1,250	0.75	937.50T
Mud Flush	500	1.00	500.00T
CC-1	6	35.00	210.00T
4 1/2 Guide Shoe	1	125.00	125.00T
4 1/2 Centralizer	6	45.00	270.00T
4 1/2 AFU Insert	1	155.00	155.00T
4 1/2 Rubber Plug	1	57.00	57.00T
Longstring	1	1,750.00	1,750.00
Handling	283	2.10	594.30
.08 * sacks * miles	8,500	0.08	680.00
Service Supervisor	1	150.00	150.00
LMV	30	3.75	112.50
Heavy Equipment Mileage	60	8.00	480.00
Customer Discount		-3,298.59	-3,298.59
Discount Expires after30 days from the date of the invoice		0.00	0.00
Fairchild #3-14 Kingman Co.			

199 - 500

CEMENT PROD. CSG.

Thank You for your business & Happy Holidays!

Subtotal	$7,696.71
Sales Tax (8.0%)	$578.28
Total	$8,274.99

QUALITY WELL SERVICE, INC.

6985

Federal Tax I.D. # 481187368
Home Office 30060 N. Hwy 281, Pratt, KS 67124
Mailing Address P.O. Box 468
Office 620-727-3410
Fax 620-672-3663
Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-25-18	14	28S	8W	Kingman	Ks		

Lease Fairchild Well No. 3-14 Location Kingman Ks 5W 3S 2E Into

Contractor Duke Drlg. Rig # 8 Owner

Type Job 4½ L.S. To Quality Well Service, 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	7 7/8	T.D.	4480'
Csg.	4½	Depth	4478'
Tbg. Size		Depth	
Tool		Depth	
Cement Left In Csg.	20.73	Shoe Joint	20.73
Meas Line		Displace	70.97

Charge To Vincent Oil Corp

Street

City State

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

Cement Amount Ordered 250 sx Pro C 2% Gel 10% Salt 5#/sx Kolseal

EQUIPMENT

Pumptrk 8	No.	TJ
Bulktrk 10	No.	Jake
Bulktrk	No.	
Pickup	No.	

Common	250
Poz. Mix	
Gel.	5
Calcium	
Hulls	
Salt	28
Flowseal	
Kol-Seal	1250
Mud CLR 48	500 gal
CFL-117 or CD110 CAF 38	CC-1 - 1#
Sand	
Handling	283
Mileage	35

JOB SERVICES & REMARKS

Rat Hole 30 sx
Mouse Hole 20 sx
Centralizers 1-2-3-5-7-9-11
Baskets 2 4 6 8 10 12
D/V or Port Collar

Run 110 jts 4½" 10.5 csg set @ 4478'
Csg on Bottom Drop Ball
Hook up to Csg Break Circ w/rig
1 hr
Pump 5 Bbls H2O 12 Bbls MF 5 Bbls H2O
Plug R-M Holes 50sx Pro C
Start mix & Pump 200 sx Pro C
Down Csg.
Shut Down Wash up tk & Release 4½ TP Plug
Start Disp 2% KCL
56 out Lift Psi 650#
70.87 Bbls at Land Plug 1400#
Release Held Good Circ thru job
Thank You
Please Call Again
Tool TJ Jake

4½ FLOAT EQUIPMENT

Guide Shoe	1 EA
Centralizer	6 EA
Baskets	~~1 EA~~
AFU Inserts	1 EA
~~Float Shoe~~	1 EA Top Rubber Plug
Latch Down	
Service Supervisor	
LMV	35
Pumptrk Charge	Longstring
Mileage	60
Tax	
Discount	
Total Charge	

X Signature

DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Jim Hall

14-28S-8W Kingman

Fairchild 3-14

Job Ticket: 63849 **DST#: 1**

Test Start: 2018.11.20 @ 21:33:00

GENERAL INFORMATION:

Formation: **Hertha**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:47:47
Time Test Ended: 07:16:47

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74

Interval: 3733.00 ft (KB) To 3755.00 ft (KB) (TVD)
Total Depth: 3755.00 ft (KB) (TVD)
Hole Diameter: inches Hole Condition: Good

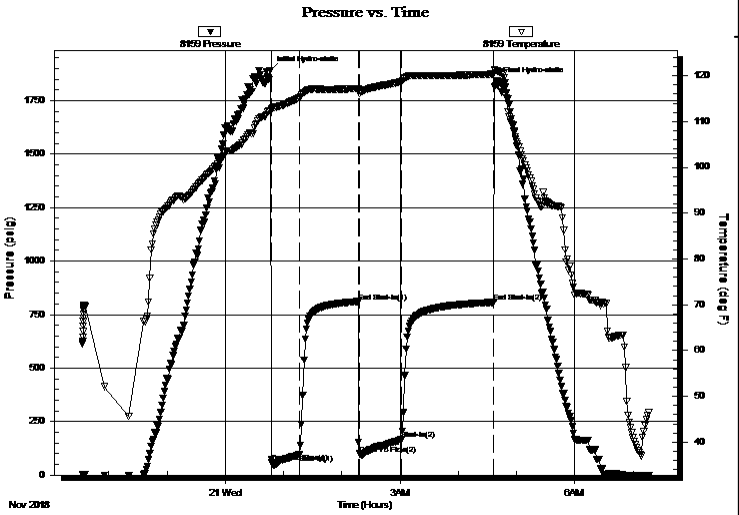
Reference Elevations: ft (KB)
ft (CF)
KB to GR/CF: ft

Serial #: 8159 **Inside**

Press@RunDepth: 167.65 psig @ 3734.00 ft (KB)
Start Date: 2018.11.20 End Date: 2018.11.21
Start Time: 21:33:01 End Time: 07:16:47

Capacity: psig
Last Calib.: 2018.11.21
Time On Btm: 2018.11.21 @ 00:46:02
Time Off Btm: 2018.11.21 @ 04:39:02

TEST COMMENT: IF: Strong Blow , BOB in 1 minute, Built to 380 inches
ISI: GTS During Bleed Off, Blow Back Built to 1.5 inch
FF Strong Blow , BOB & GTS Immediate, Caught Sample, TSTM
FSI: Blow Back Built to 20 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1891.04	112.28	Initial Hydro-static
2	60.45	112.77	Open To Flow (1)
31	95.87	115.15	Shut-In(1)
91	810.93	117.17	End Shut-In(1)
93	99.64	116.05	Open To Flow (2)
136	167.65	118.68	Shut-In(2)
231	807.79	120.39	End Shut-In(2)
233	1840.04	121.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3398 GIP	0.00
126.00	GMOCW 20%G 10%M 30%O 40%W	1.77
194.00	GSY Oil 20%G 80%O	2.72

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Jim Hall

14-28S-8W Kingman

Fairchild 3-14

Job Ticket: 63849 **DST#: 1**

Test Start: 2018.11.20 @ 21:33:00

GENERAL INFORMATION:

Formation: **Hertha**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:47:47
Time Test Ended: 07:16:47

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74

Interval: 3733.00 ft (KB) To 3755.00 ft (KB) (TVD)
Total Depth: 3755.00 ft (KB) (TVD)
Hole Diameter: inches Hole Condition: Good

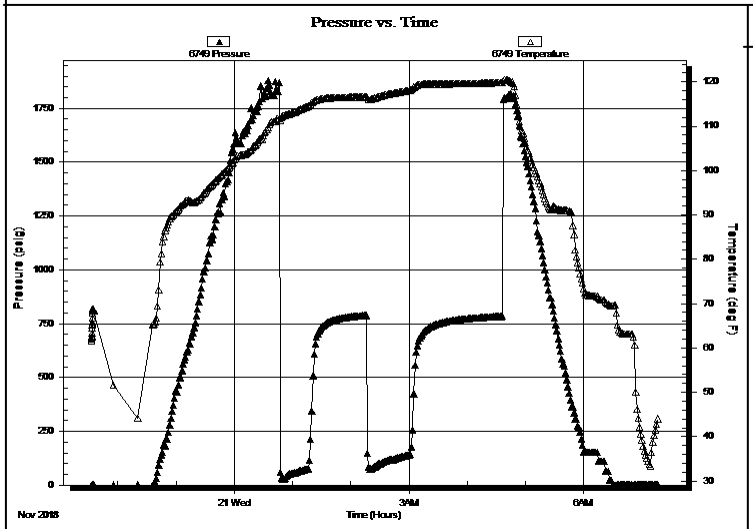
Reference Elevations: ft (KB)
ft (CF)
KB to GR/CF: ft

Serial #: 6749 **Outside**

Press@RunDepth: psig @ 3734.00 ft (KB)
Start Date: 2018.11.20 End Date: 2018.11.21
Start Time: 21:33:01 End Time: 07:16:47

Capacity: psig
Last Calib.: 2018.11.21
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 1 minute, Built to 380 inches
ISI: GTS During Bleed Off, Blow Back Built to 1.5 inch
FF Strong Blow , BOB & GTS Immediate, Caught Sample, TSTM
FSI: Blow Back Built to 20 inches



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3398 GIP	0.00
126.00	GMOCW 20%G 10%M 30%O 40%W	1.77
194.00	GSY Oil 20%G 80%O	2.72

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Jim Hall

14-28S-8W Kingman

Fairchild 3-14

Job Ticket: 63849 **DST#: 1**

Test Start: 2018.11.20 @ 21:33:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	43.3 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	62000 ppm
Viscosity:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	11.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3398 GIP	0.000
126.00	GMOCW 20%G 10%M 30%O 40%W	1.767
194.00	GSY Oil 20%G 80%O	2.721

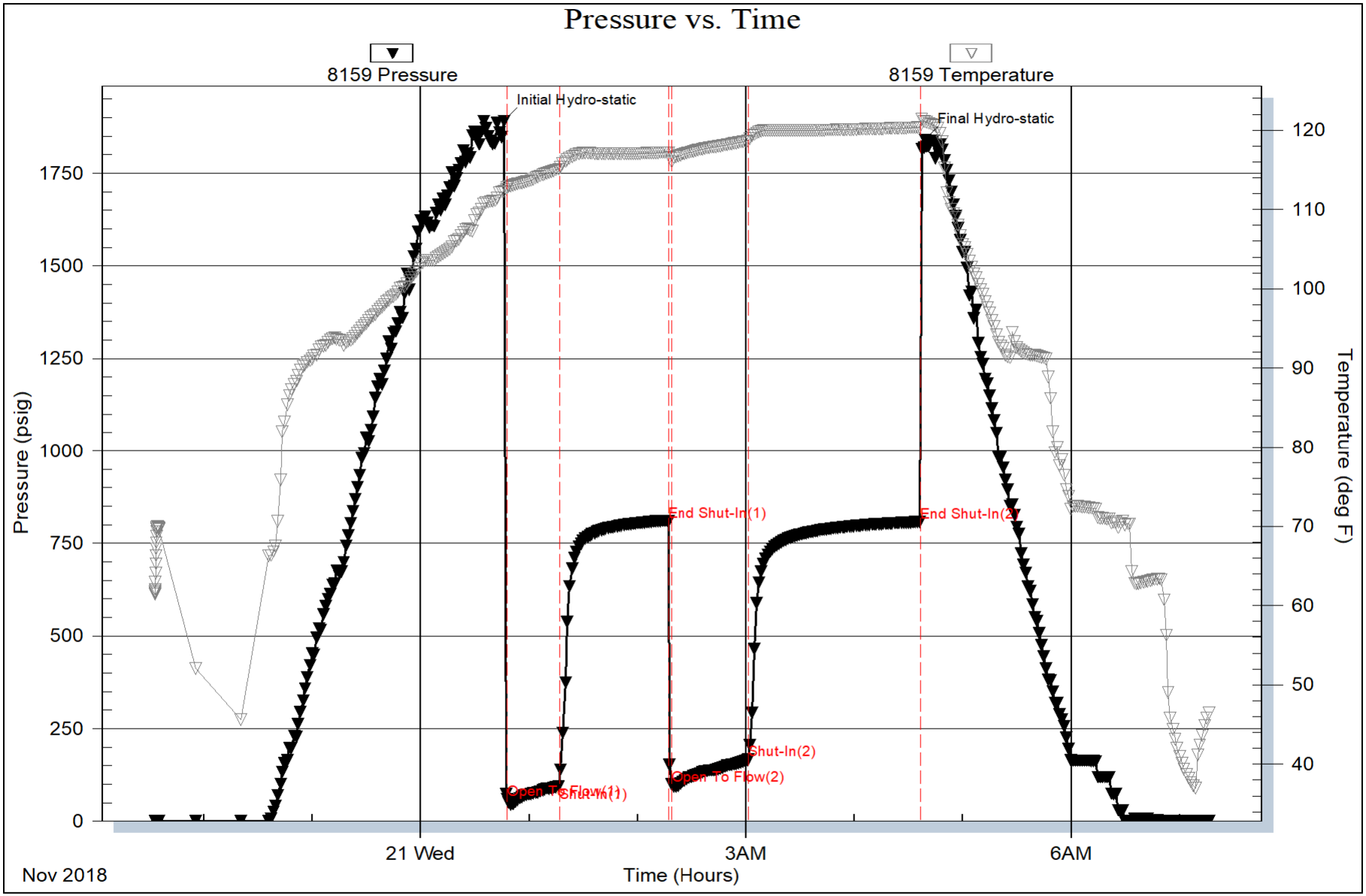
Total Length: 320.00 ft Total Volume: 4.488 bbl

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

Laboratory Name: Laboratory Location:

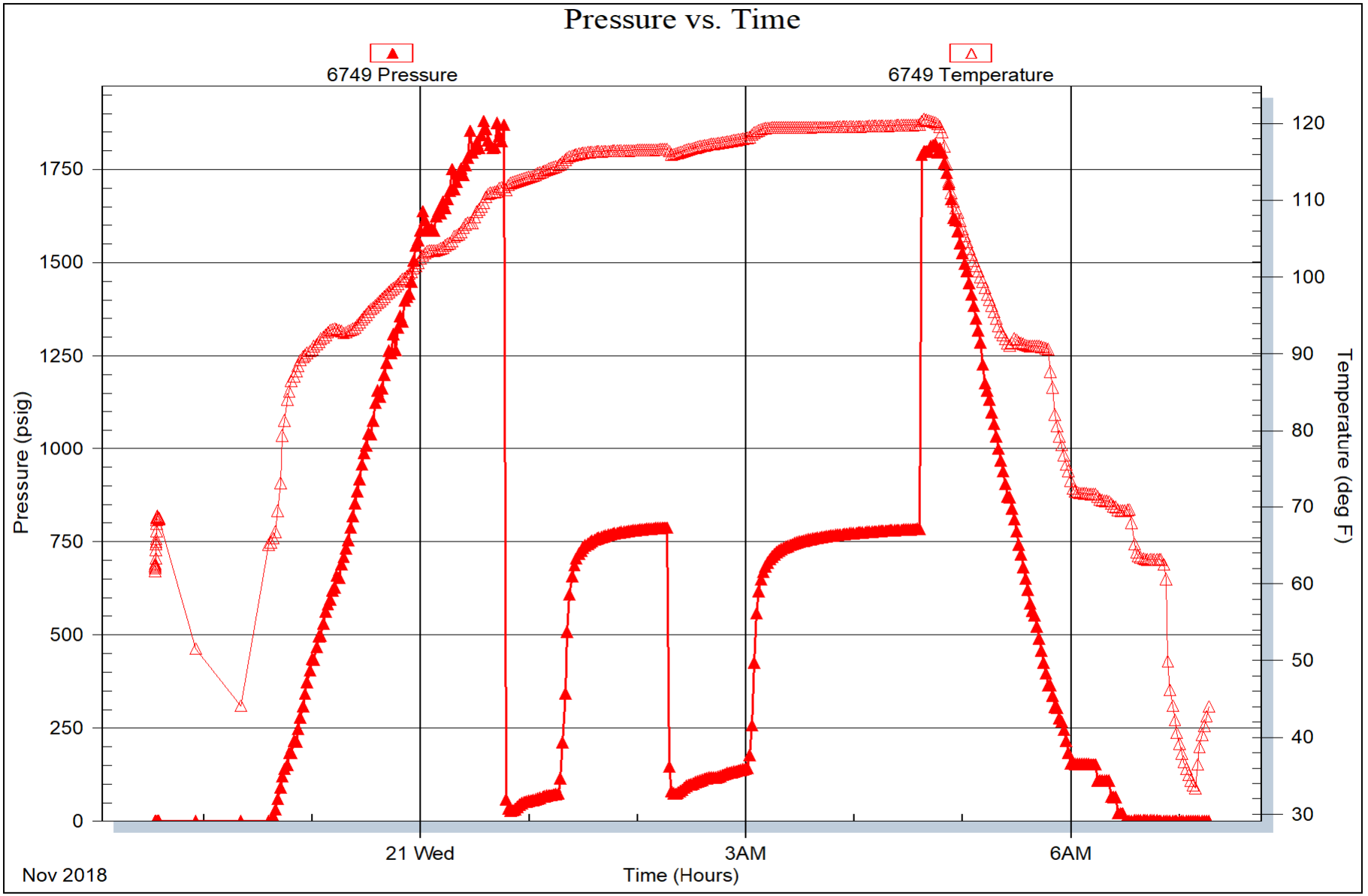
Recovery Comments: Gravity w as 41.2 @ 39 degrees
RW w as .21@ 41 degrees

Serial #: 8159 **Inside** Vincent Oil Corporation Fairchild 3-14 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 63849 Printed: 2018.11.21 @ 07:47:31

Serial #: 6749 **Outside** Vincent Oil Corporation Fairchild 3-14 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 63849 Printed: 2018.11.21 @ 07:47:31

DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Jim Hall

14-28S-8W Kingman

Fairchild 3-14

Job Ticket: 63850 **DST#: 2**

Test Start: 2018.11.22 @ 13:15:52

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:08:39
Time Test Ended: 20:47:54

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 3969.00 ft (KB) To 4055.00 ft (KB) (TVD)
Total Depth: 4055.00 ft (KB) (TVD)
Hole Diameter: inches Hole Condition: Good

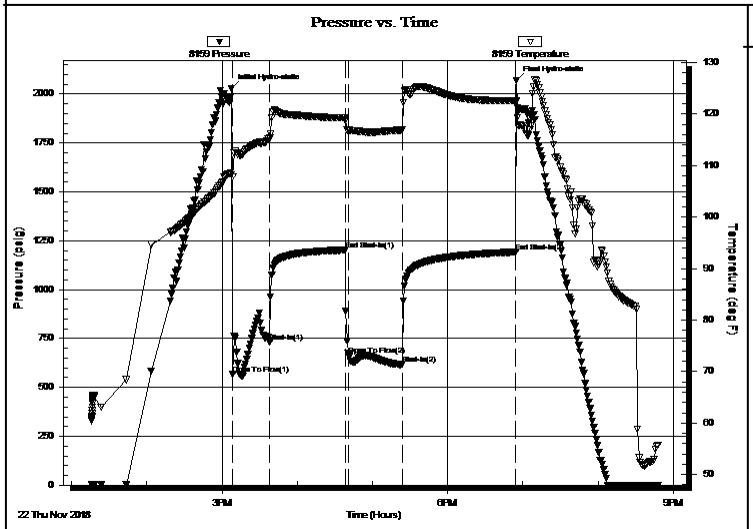
Reference Elevations: ft (KB)
ft (CF)
KB to GR/CF: ft

Serial #: 8159 **Inside**

Press@RunDepth: 617.90 psig @ 3970.00 ft (KB)
Start Date: 2018.11.22 End Date: 2018.11.22
Start Time: 13:15:53 End Time: 20:47:54

Capacity: psig
Last Calib.: 2018.11.22
Time On Btm: 2018.11.22 @ 15:07:39
Time Off Btm: 2018.11.22 @ 18:54:54

TEST COMMENT: IF: Strong Blow , BOB in 45 econds, GTS in 4 minutes, Gauged & Caught Sample
ISI: No Blow Back
FF: Strong Blow , BOB & GTS Immediate, Gauged Gas
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2026.98	108.21	Initial Hydro-static
1	568.25	107.77	Open To Flow (1)
31	731.47	115.36	Shut-In(1)
91	1202.45	119.31	End Shut-In(1)
94	665.01	116.93	Open To Flow (2)
136	617.90	116.98	Shut-In(2)
227	1192.74	122.56	End Shut-In(2)
228	2070.49	122.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3708 GIP	0.00
126.00	MCW 20%M 80%W	1.77
136.00	GSY Mud 10%G 90%M	1.91

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	130.00	4151.33
Last Gas Rate	1.00	74.00	2541.39
Max. Gas Rate	1.00	130.00	4151.33

DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Jim Hall

14-28S-8W Kingman

Fairchild 3-14

Job Ticket: 63850 **DST#: 2**

Test Start: 2018.11.22 @ 13:15:52

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:08:39
Time Test Ended: 20:47:54

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 3969.00 ft (KB) To 4055.00 ft (KB) (TVD)
Total Depth: 4055.00 ft (KB) (TVD)
Hole Diameter: inches Hole Condition: Good

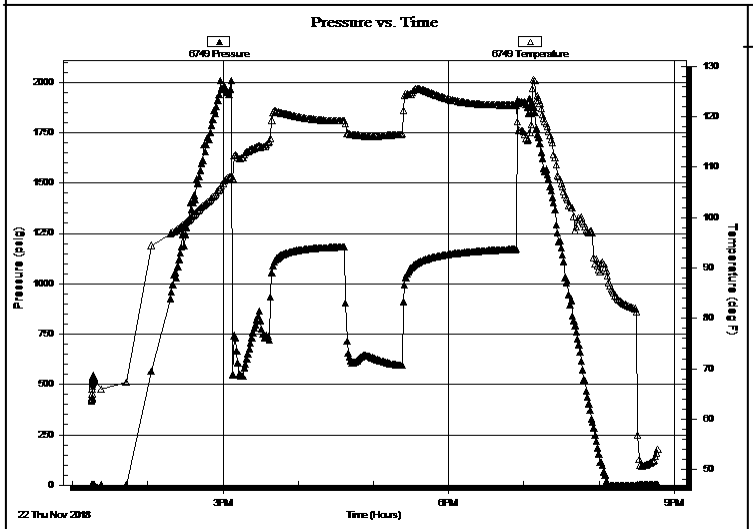
Reference Elevations: ft (KB)
ft (CF)
KB to GR/CF: ft

Serial #: 6749 **Outside**

Press@RunDepth: psig @ 3970.00 ft (KB)
Start Date: 2018.11.22 End Date: 2018.11.22
Start Time: 13:15:01 End Time: 20:47:02

Capacity: psig
Last Calib.: 2018.11.22
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 45 econds, GTS in 4 minutes, Gauged & Caught Sample
ISI: No Blow Back
FF: Strong Blow , BOB & GTS Immediate, Gauged Gas
FSI: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3708 GIP	0.00
126.00	MCW 20%M 80%W	1.77
136.00	GSY Mud 10%G 90%M	1.91

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	130.00	4151.33
Last Gas Rate	1.00	74.00	2541.39
Max. Gas Rate	1.00	130.00	4151.33

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Jim Hall

14-28S-8W Kingman

Fairchild 3-14

Job Ticket: 63850 **DST#: 2**

Test Start: 2018.11.22 @ 13:15:52

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	10.00 lb/gal	Cushion Length:	ft	Water Salinity:	70000 ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3708 GIP	0.000
126.00	MCW 20%M 80%W	1.767
136.00	GSY Mud 10%G 90%M	1.908

Total Length: 262.00 ft Total Volume: 3.675 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW w as .18 @ 43 degrees

DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Jim Hall

14-28S-8W Kingman

Fairchild 3-14

Job Ticket: 63850 **DST#: 2**

Test Start: 2018.11.22 @ 13:15:52

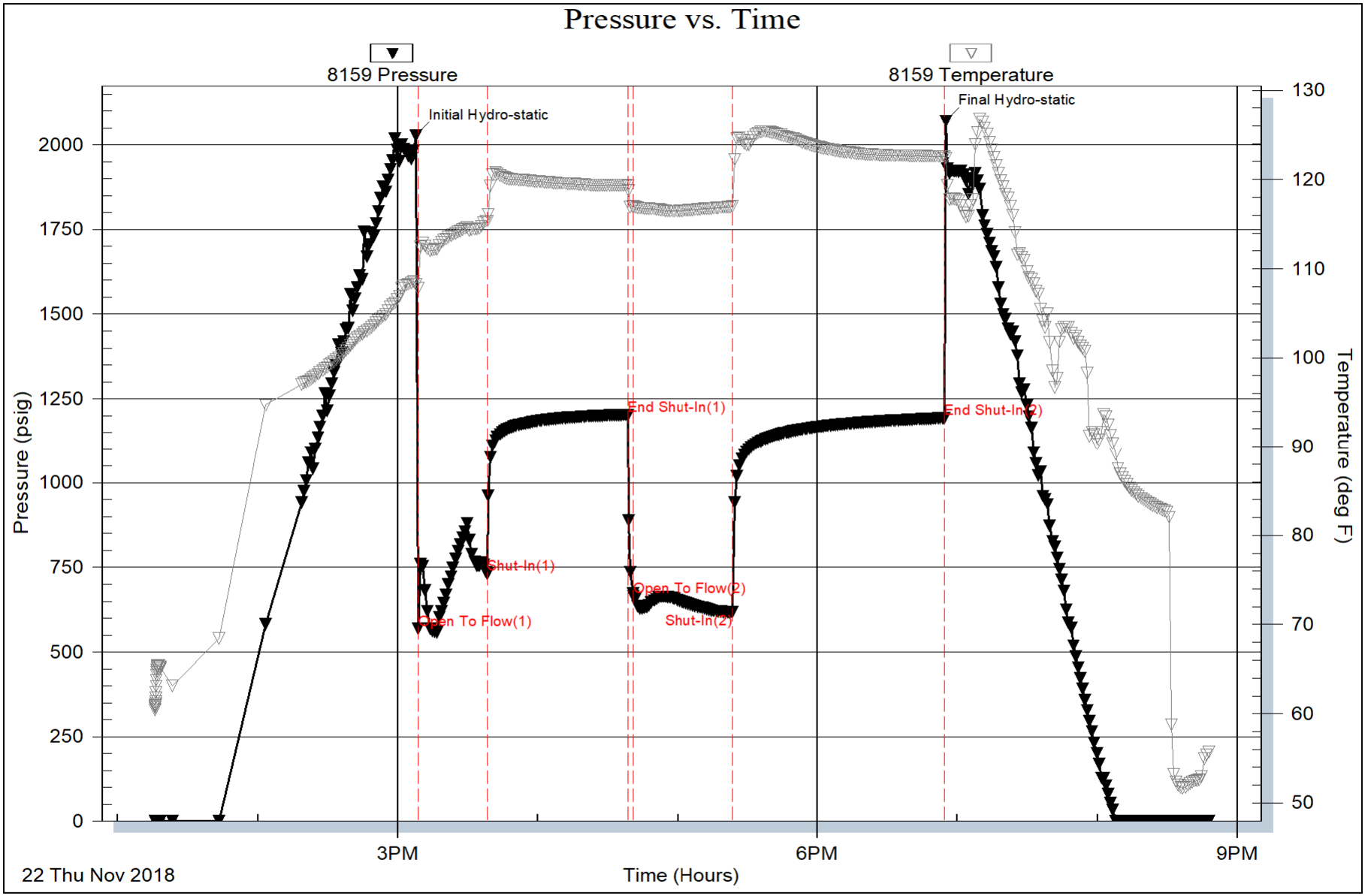
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

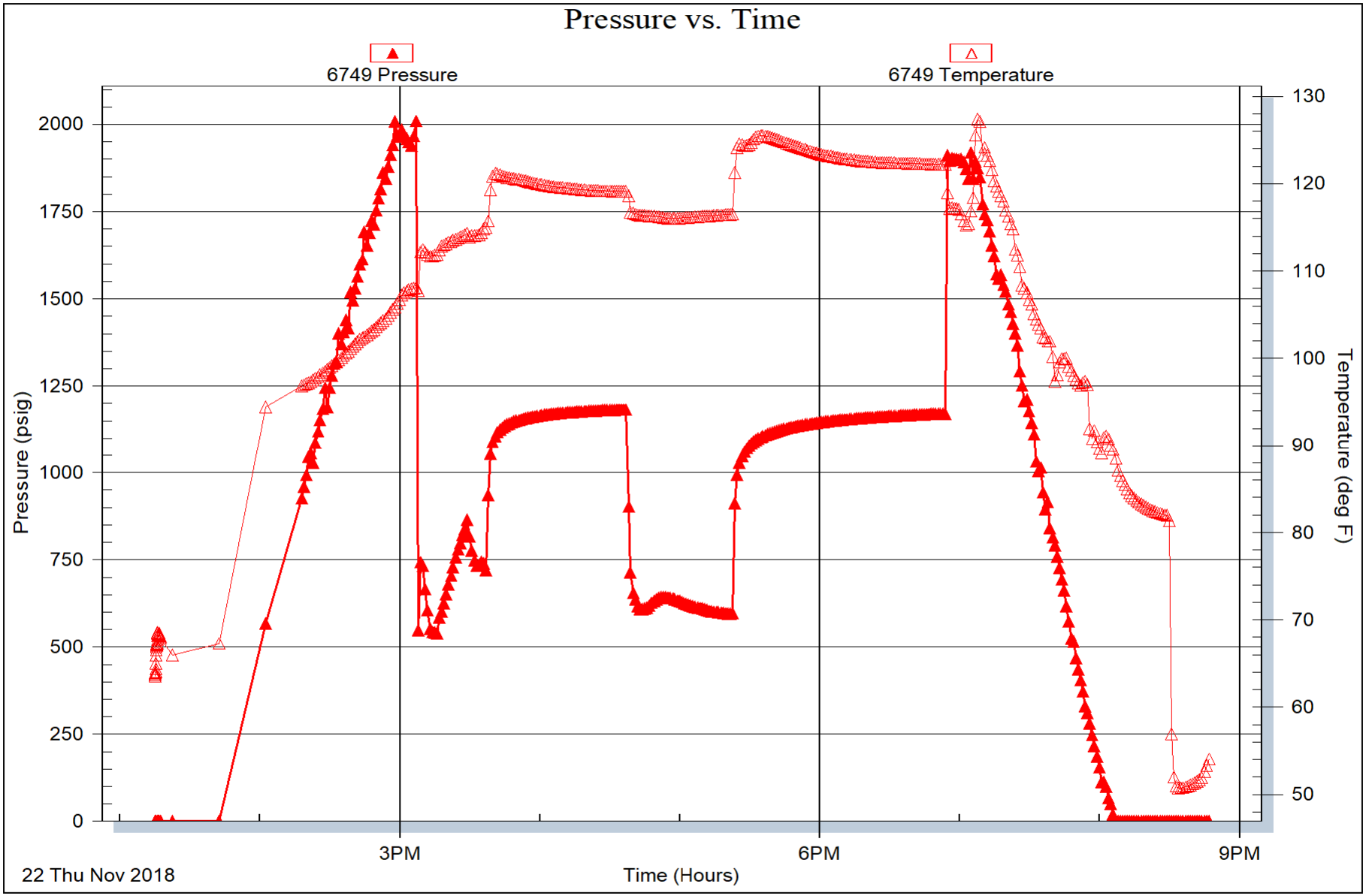
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	20	1.00	130.00	4151.33
1	30	1.00	90.00	3001.38
2	10	1.00	72.00	2483.90
2	20	1.00	83.00	2800.13
2	30	1.00	78.00	2656.39
2	40	1.00	73.00	2512.65
2	45	1.00	74.00	2541.39

Serial #: 8159 **Inside** Vincent Oil Corporation Fairchild 3-14 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 63850 Printed: 2018.11.22 @ 21:53:12

Serial #: 6749 **Outside** Vincent Oil Corporation Fairchild 3-14 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 63850 Printed: 2018.11.22 @ 21:53:12

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name:	**VINCENT OIL CORP. Fairchild #3-14**		
API:	**15-095-22327-00-00**		
Location:	**SE NE SW SW Sec 14-28S-8W Kingman Co. Kansas**		
License Number:	**5004**	**Region:**	**Garlisch SW**
Spud Date:	**11/14/18**	**Drilling Completed:**	**11/24/18**
Surface Coordinates:	**982' FSL 1,277' FWL**		
Bottom Hole Coordinates:			
Ground Elevation (ft):	**1,600'**	**K.B. Elevation (ft):**	**1,608'**
Logged Interval (ft):	**1,350'** **To: 4,480'**	**Total Depth (ft):**	**4,480'**
Formation:	**Simpson Sandstone**		
Type of Drilling Fluid:	**NATIVE MUD TO 2,988'. CHEMICAL GEL TO RTD**		

OPERATOR

Company: **VINCENT OIL CORP.**
Address: **200 W. DOUGLAS AVE #725**
WICHITA, KANSAS 67202-3013
OFFICE; 316-262-3573

GEOLOGIST

Name: **Jame R. Hall (Well Supervision)**
Company: **Black Gold Petroleum**
Address: **PO BOX 66**
VALLEY CENTER, KANSAS 67147-0066
316-217-1223

Comments

Drilling contractor: Duke Drilling, Rig #8, Tool Pusher: Tim Arell and Matt Smith.

Surface Casing: 8 5/8" 23# set at 309' with 275 sxs, cement, did circulate.

Daily Activity: @07:00 hrs.
11/15/18; Spud 21:30hrs. 11/14/18. Drilled 12 1/4" hole to 315'. Ran 8 5/8" csg to 309', plug down @ 07:00hrs, wainting on cmt.
11/16/18: 1,113' drilling ahead with native mud.
11/17/18; 1,931' drilling ahead with native mud.
11/18/18: 2,720' drilling ahead with native mud.
11/19/18: 3,242' drilling, had same down time due to trash pump failure.
11/20/18; 3,640' drilling in Kansas City.
11/21/18: 3,755' DST #1 Hertha 3,733' - 3,755' (22'), Pipe strap during test 1.72' short to the board.
11/22/18; 4,050' circulating Miss.
11/23/18; 4,210' drilling.
11/24/18: 4,448' circulating Simpson.
11/25/18: Ran open hole logs. And 4.5" production csg.

Surveys: 0.5 deg. @ 315', 0.25 deg. @ 830, 0.25 deg. @ 1,332, 0.25 deg. @ 1,837', 1.0 deg. @ 2,339', 1.0 deg. @ 2,877', 0.75 deg. @ 3,379', 0.25 deg. @ 3,755', 0.25 deg. @ 4,055,

Bit Record:
#1 12 1/4" JZ out @ 315'.
#2 7 7/8" JZ in @ 315' out @ 4,480'.

Drilling time commenced: @ 1,360'. Maximum 20' washed wet samples commenced to 3,060'. Maximum 10' washed wet and dry samples from 3,060' to RTD. Samples delivered to Kansas Geological Sample Library at Wichita, Kansas.

Gas Detector: Blue Stem unit #5279. Digital Unit, commenced @ 1,350'.

Mud System: Mud-Co/Service Mud. Chemical Gel system @ 2,988', Mud Engineer: Brad Bortz (Pratt Office).

Open Hole Testing; Trilobite Testing, Tester: Leal (Prat Office).

Open Hole Logs: ELI Logging, Hays Kansas,
Logging Engineer: (Jeff Lubbers).
DIL, CDL/CNL/PE, MEL/SON.

Sample tops are placed on this Plotted Geo. Report, with the reference wells "A" Fairchild 2-44, "B" Fairchild 1-14 & "C" Wilson 1-14. E-log tops datum differences shown.

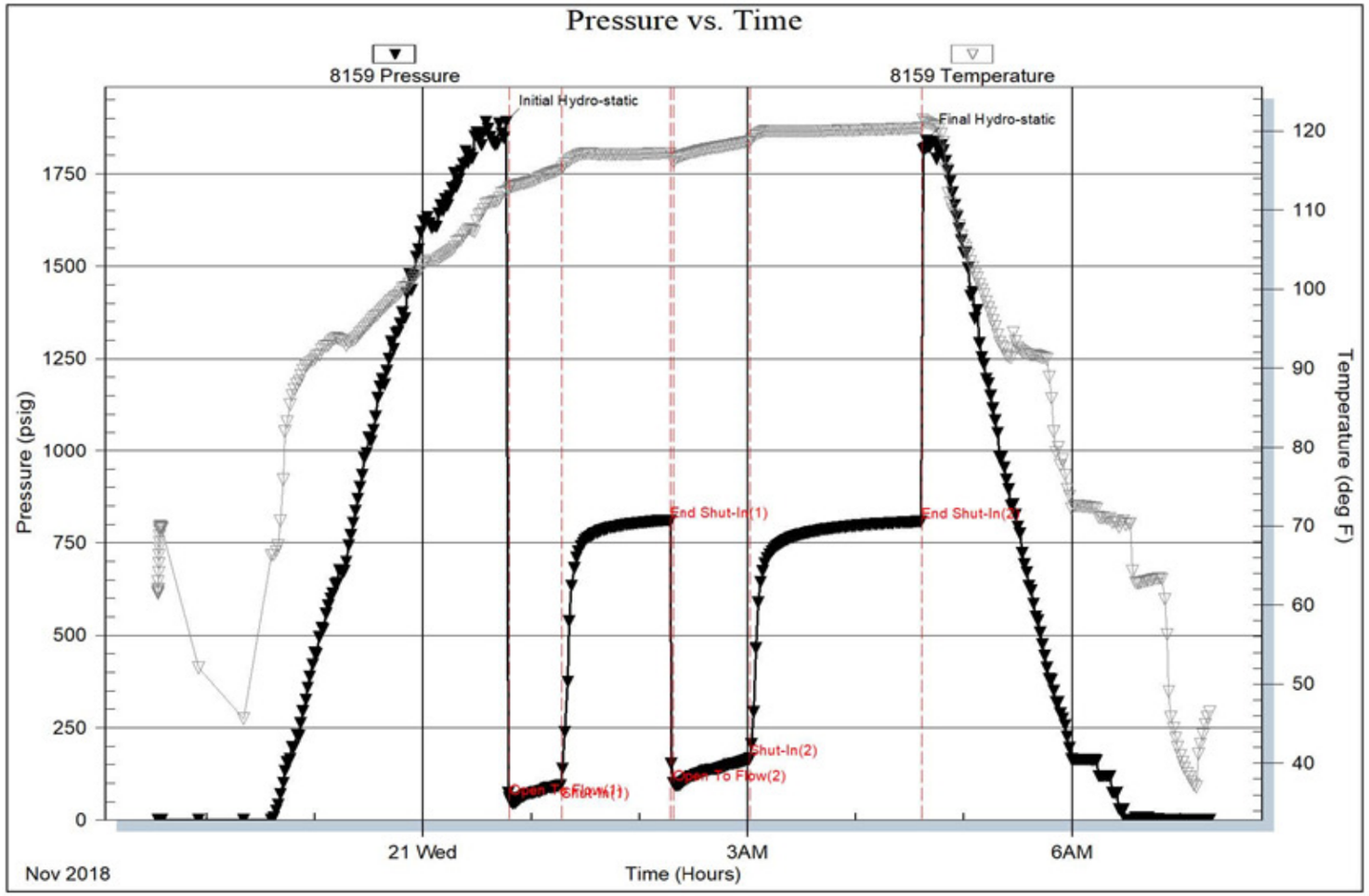
This log must be shifted by 1' to 2' for correlation purposes with the open hole E-logs. RTD is 4,480', open hole E-log depth is 4,480'.

DSTs

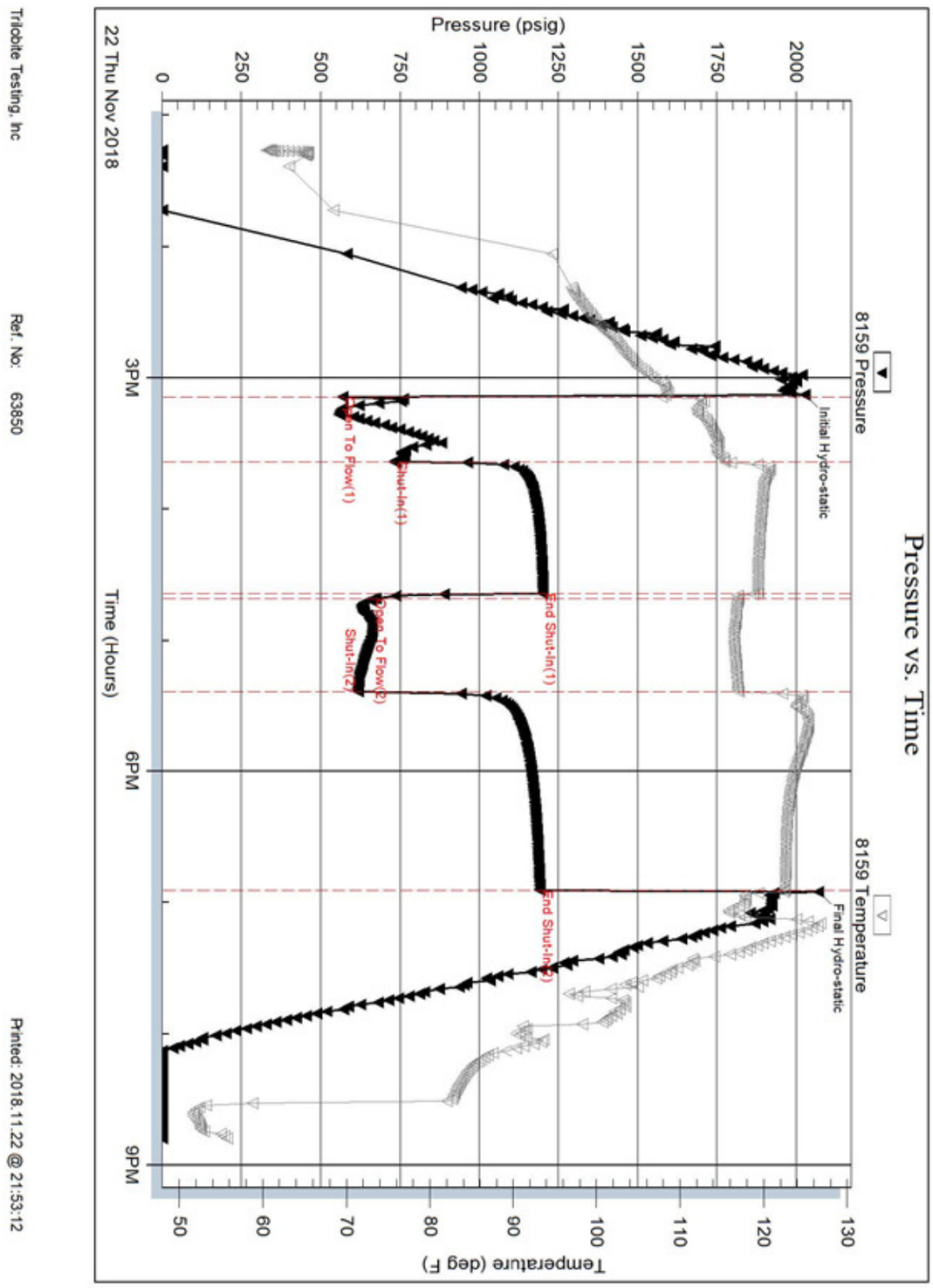
DST #1 Hertha 3,733-3,755 (22'), 30-60-45-90, IH 1891. IF: 60-96 Strong blow BOB 1min,built to 380", ISI: 811 blow back to 1.5", FF: 99-168 Strong blow & GTS immd. TSTM (sample taken), FSI: 808 blow back to 20", FH: 1840, Rec: 3,398' GIP, 194' GSYO (20%gas, 80%oil), 126' GMOCW (20%gas, 30% oil, 40% water, 10% mud, Total recovery 320'. BHT 121F, Oil gravity 43.3 API, RWA 0.21 @ 41 deg. (0.071 @ BHT, Chl 62,000ppm, drilling mud 6,000 ppm. A gas sample was taken.

DST #2 Miss. 3,969-4,055, 30-60-45-90, IH 2027, IF 568-731 (BOB 45", GTS 4': 20' 4.15mmcf, 30' 3.00mmcf), ISI 1202 (no blow back), FF 665-618 (GTS imed. 10' 2.48mmcf, 20' 2.80mmcf, 30' 2.65mmcf, 40' 2.51mmcf, 45' 2.54mmcf), FSI 1193 (no blow back), FH 2070. REC: 3,706 GIP, 136' GSY MUD (10%gas, 90%mud), (126' MCW 80% water, 20%mud). BHT 122F, Rwa 0.18 @ 43F (@BHT 0.0634), Chl. 70,000ppm, Drlling Mud 6,000ppm. A gas sample was taken.

Serial #: 8159 **Inside** Vincent Oil Corporation Fairchild 3-14 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 63849 Printed: 2018.11.21 @ 07:47:31



Qualifiers

CARBONATE CLASSIFICATION:

AFTER DUNHAM: GRAIN; any fossil, fossil fragment, sand grain, or other rock fragment within the rock. MUDSTONE; muddy carbonate rocks containing less than 10% grains. WACKESTONE; mud supported carbonate rocks with more than 10% grains. PACKSTONE; grain supported muddy carbonate rocks. GRAINSTONE; mud free carbonate rock, grain supported. BOUNDSTONE; carbonate rock bound together at deposition (coral, etc.). CRYSTALLINE CARBONATE; carbonate rock retaining to little of their depositional texture to be classified.

Qualifiers; (Fossils, Minerals, Shows, Porosity, etc.) Rare = less than 1% of sample total, Trace = less than 5% of sample total, Greater than 5% an estimate of total percentage.

ROCK TYPES

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Sdy dolo
- Shy dolo
- Dol
- Gyp
- Sdy lmst
- Lmst
- Mrlst
- Salt
- Shale
- Sltst
- Ss
- Black sh
- Gry sh
- Shale
- Shysltst
- Sltysh

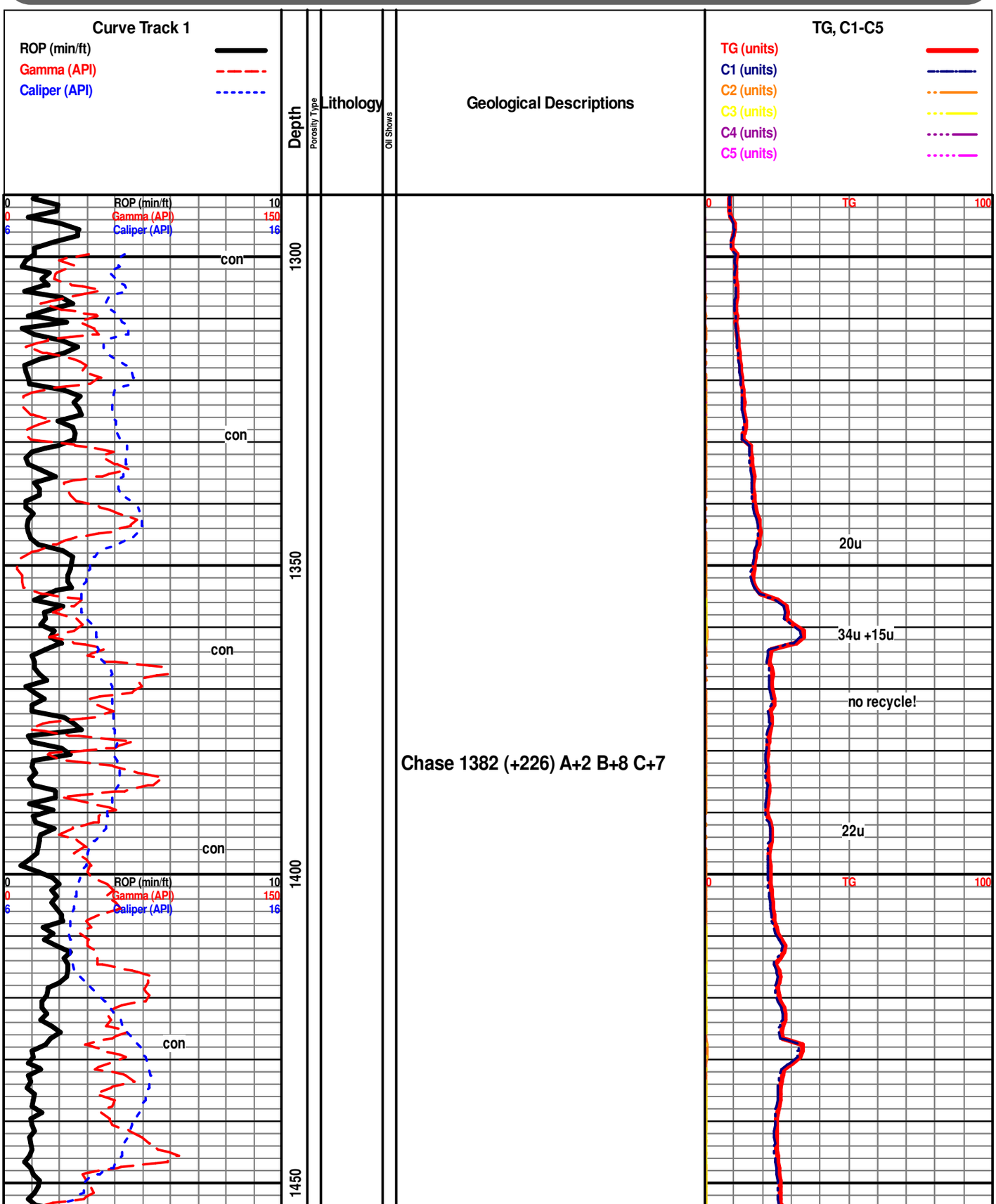
ACCESSORIES

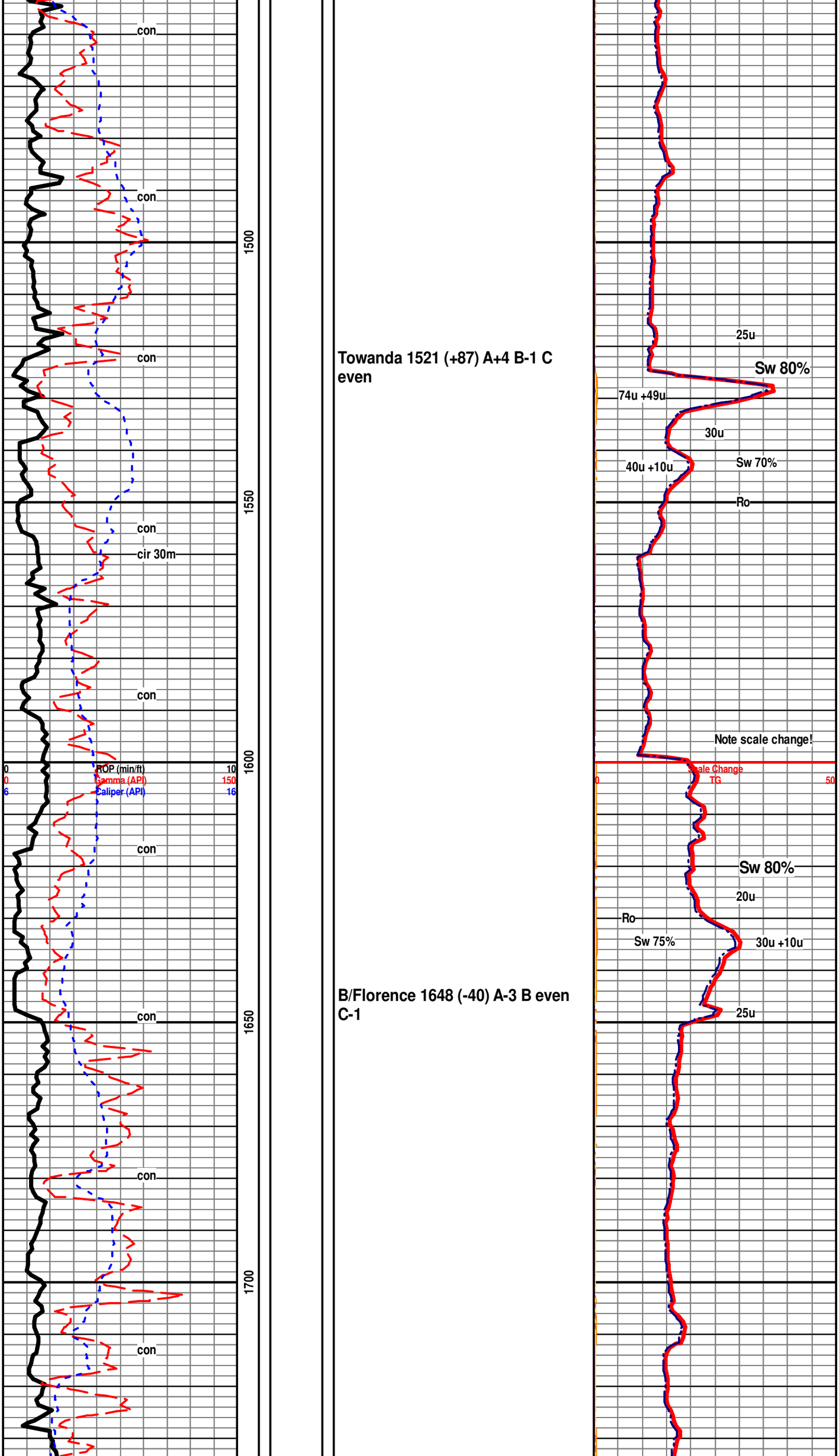
MINERAL
- Anhy
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Ferrpel
- Ferr
- Glau
- Gyp
- Marl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Chlorite
- Dol
- Sand
- Slty

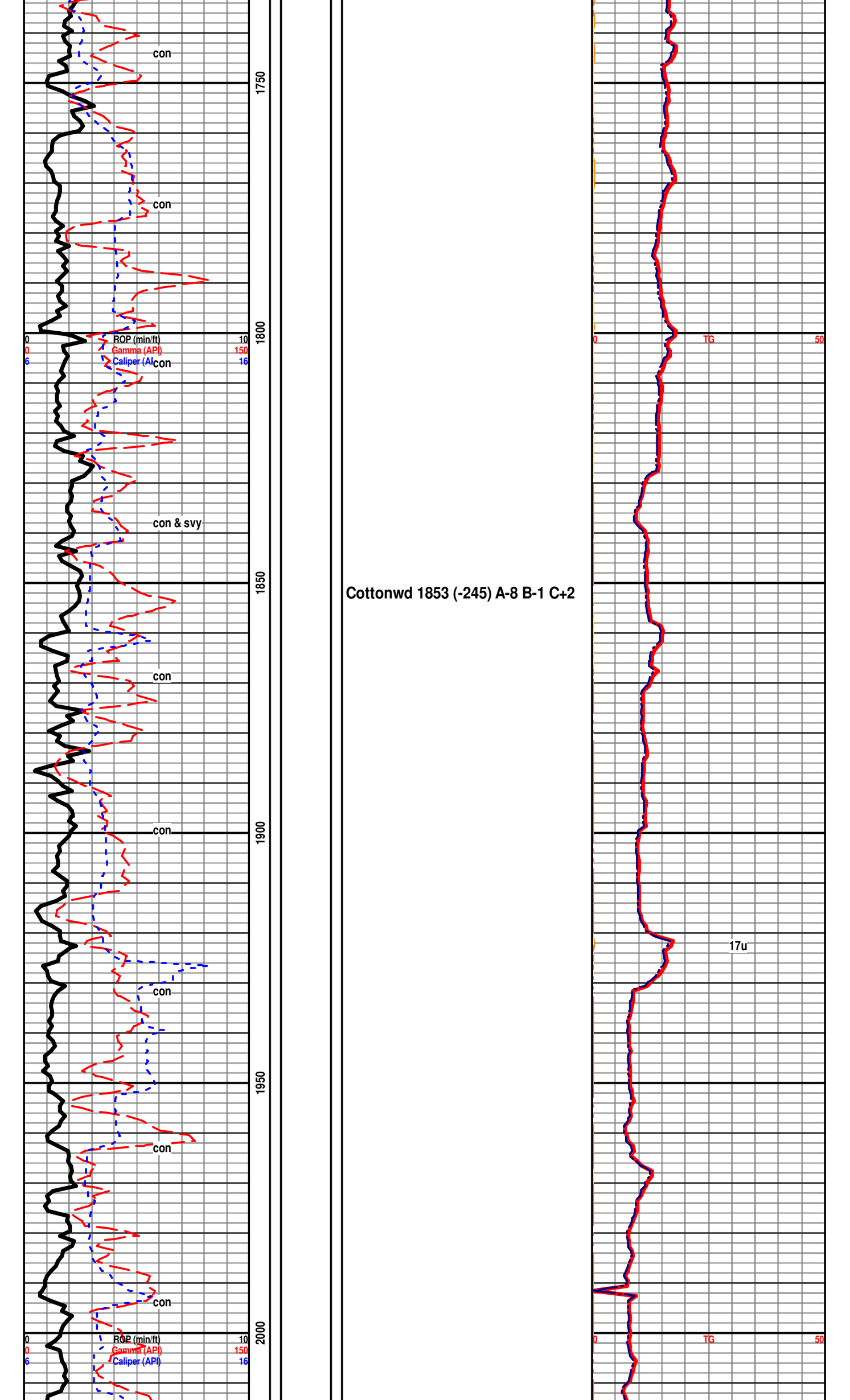
FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pelloidal
- Pisolite
- Plant
- Strom
- Fuss
- Oomoldic

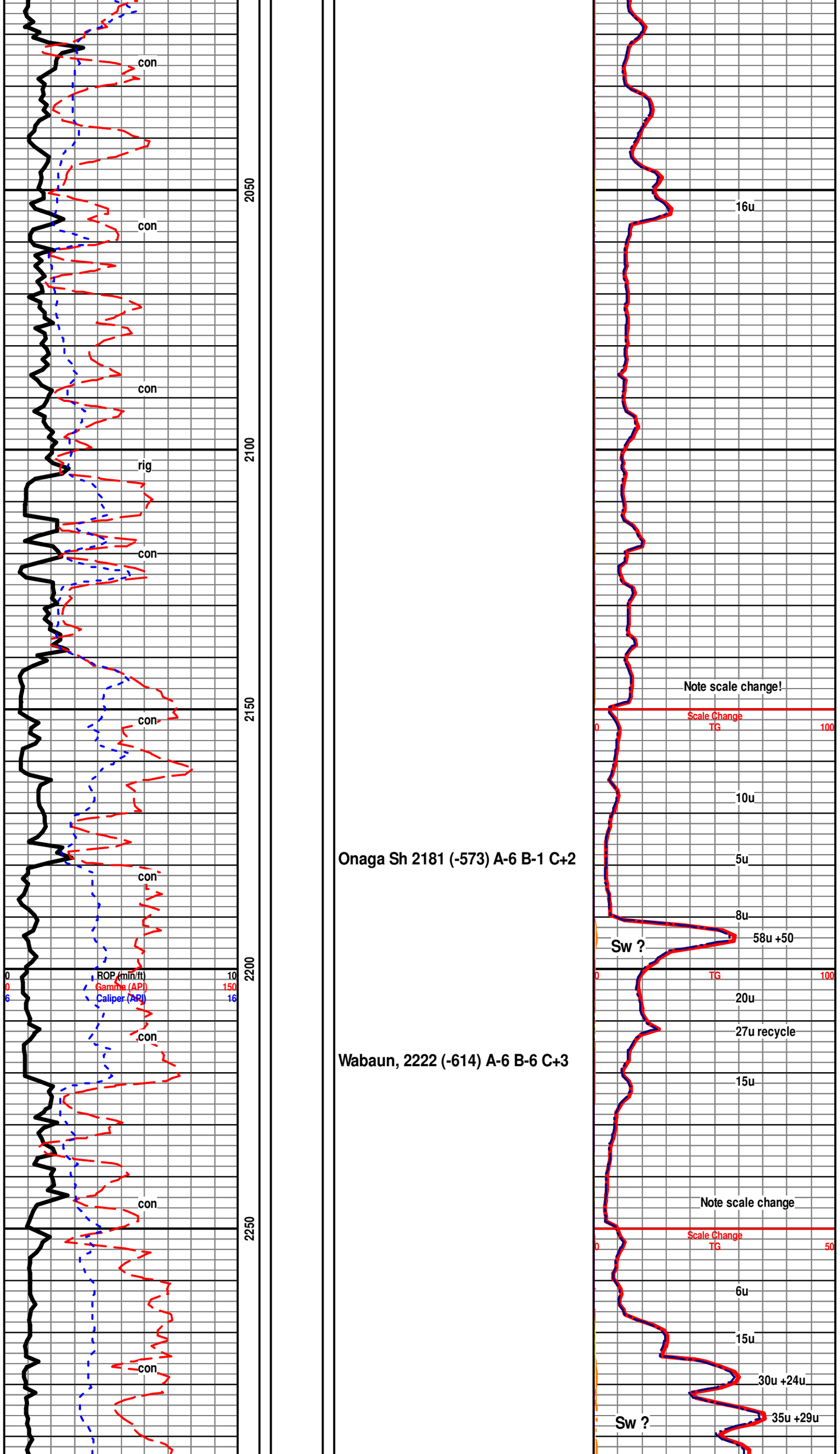
STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

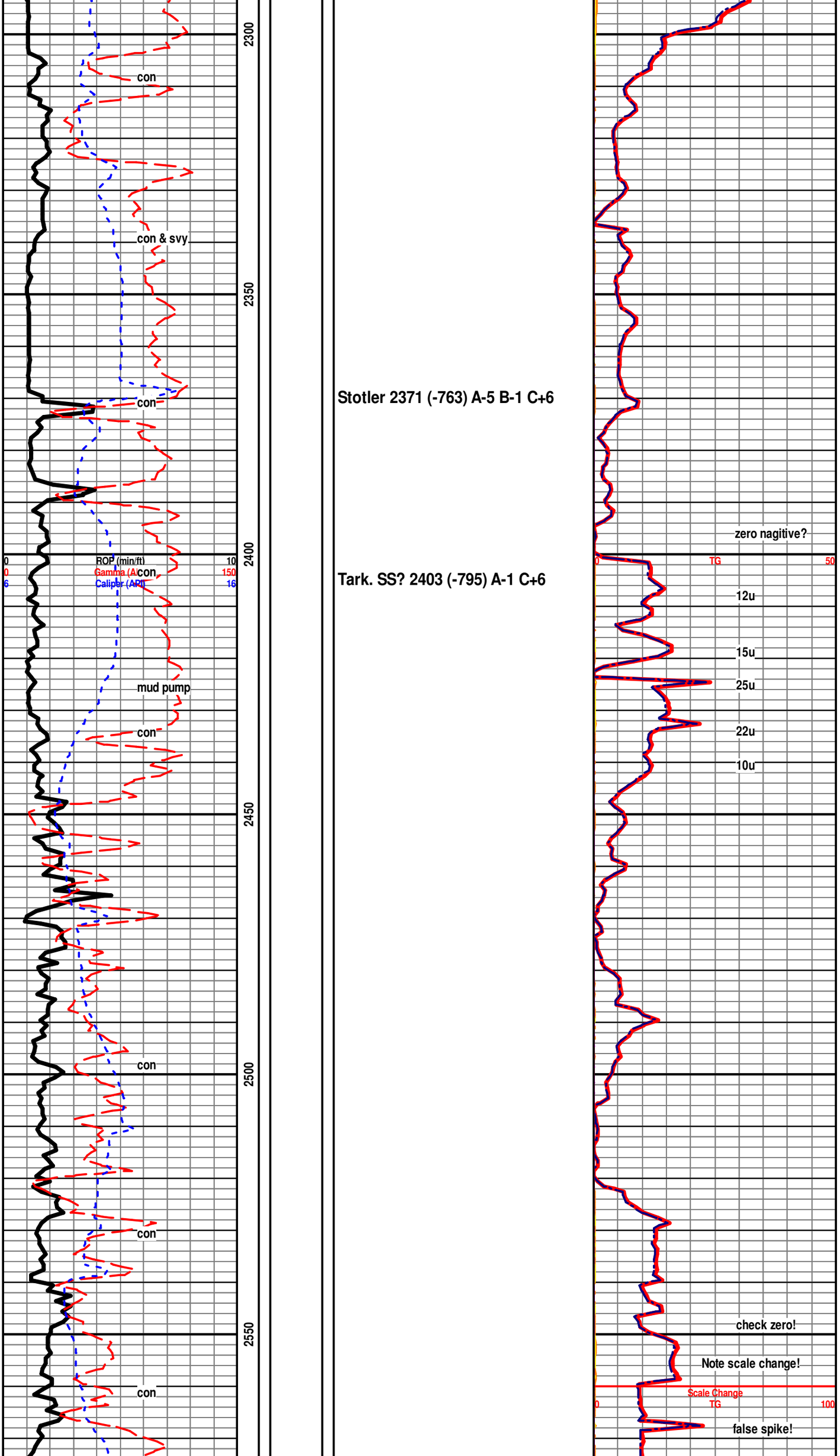
TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

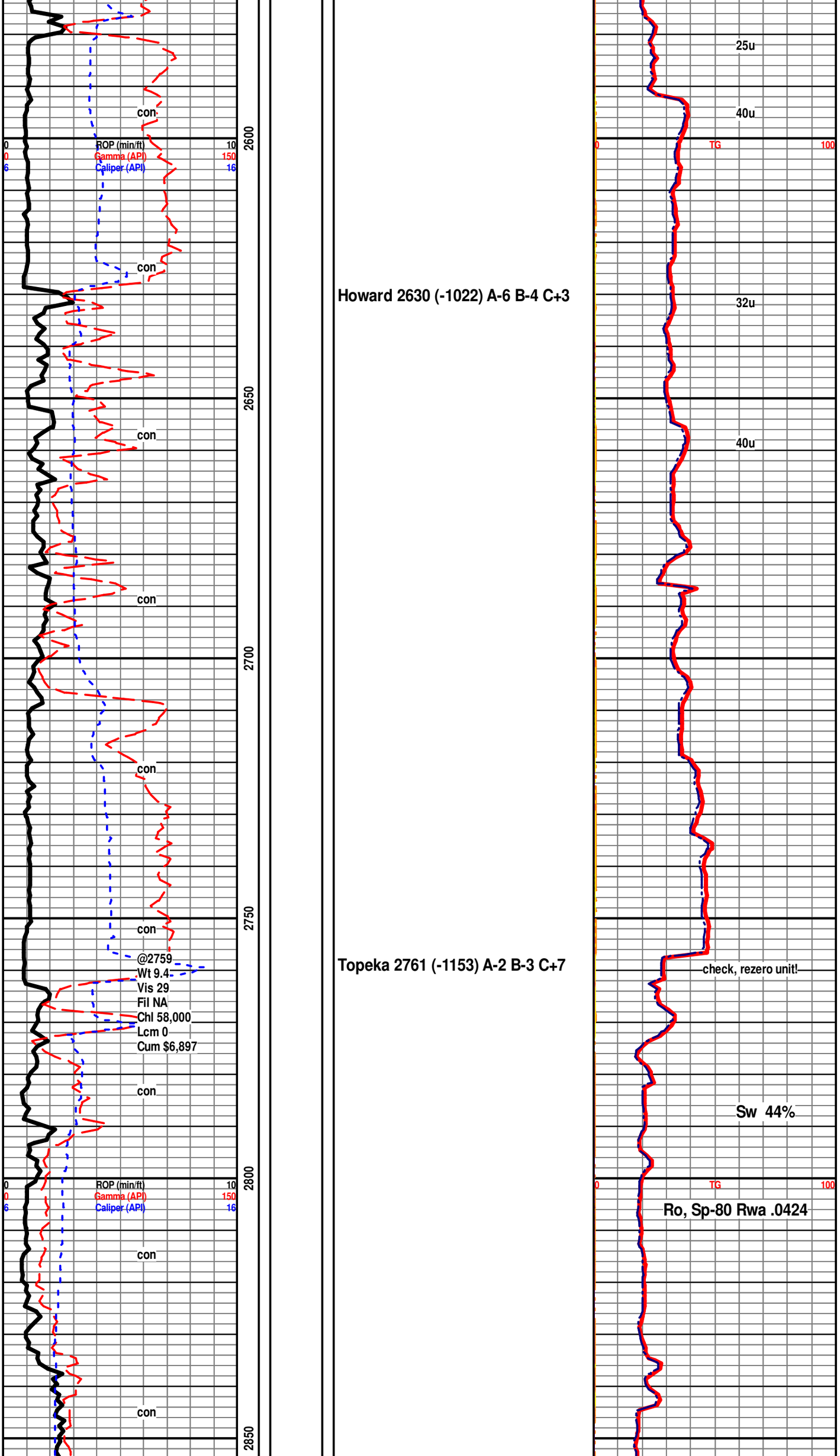


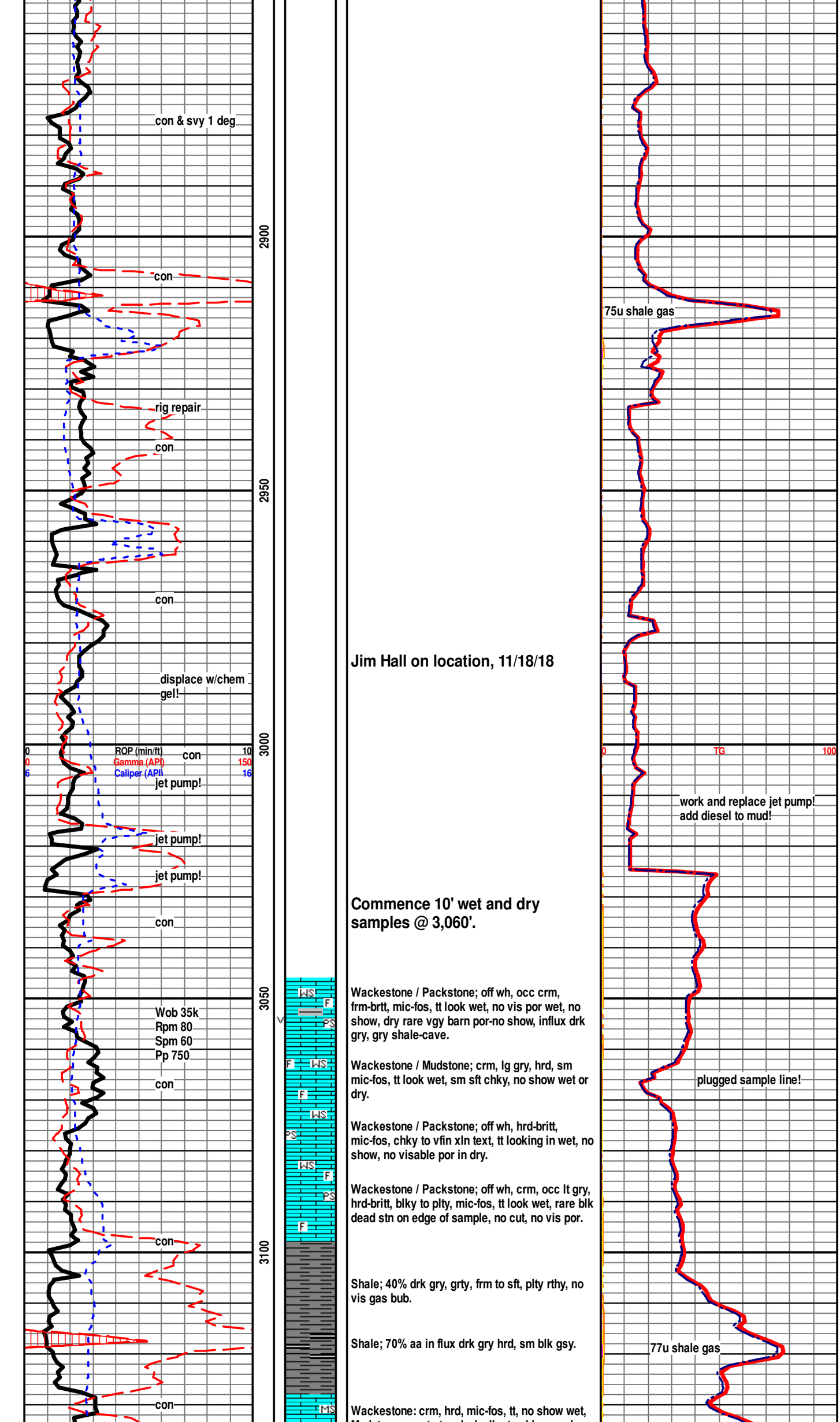

con
con
con
con
cir 30m
con
0
ROP (min/ft)
10
0
Gamma (API)
150
6
Caliper (API)
16
con
con
con
con
1500
1550
1600
1650
1700
Towanda 1521 (+87) A+4 B-1 C even
25u
Sw 80%
74u +49u
30u
40u +10u
Sw 70%
Ro
Note scale change!
Scale Change
0
TG
50
Sw 80%
20u
Ro
Sw 75%
30u +10u
B/Florence 1648 (-40) A-3 B even C-1
25u

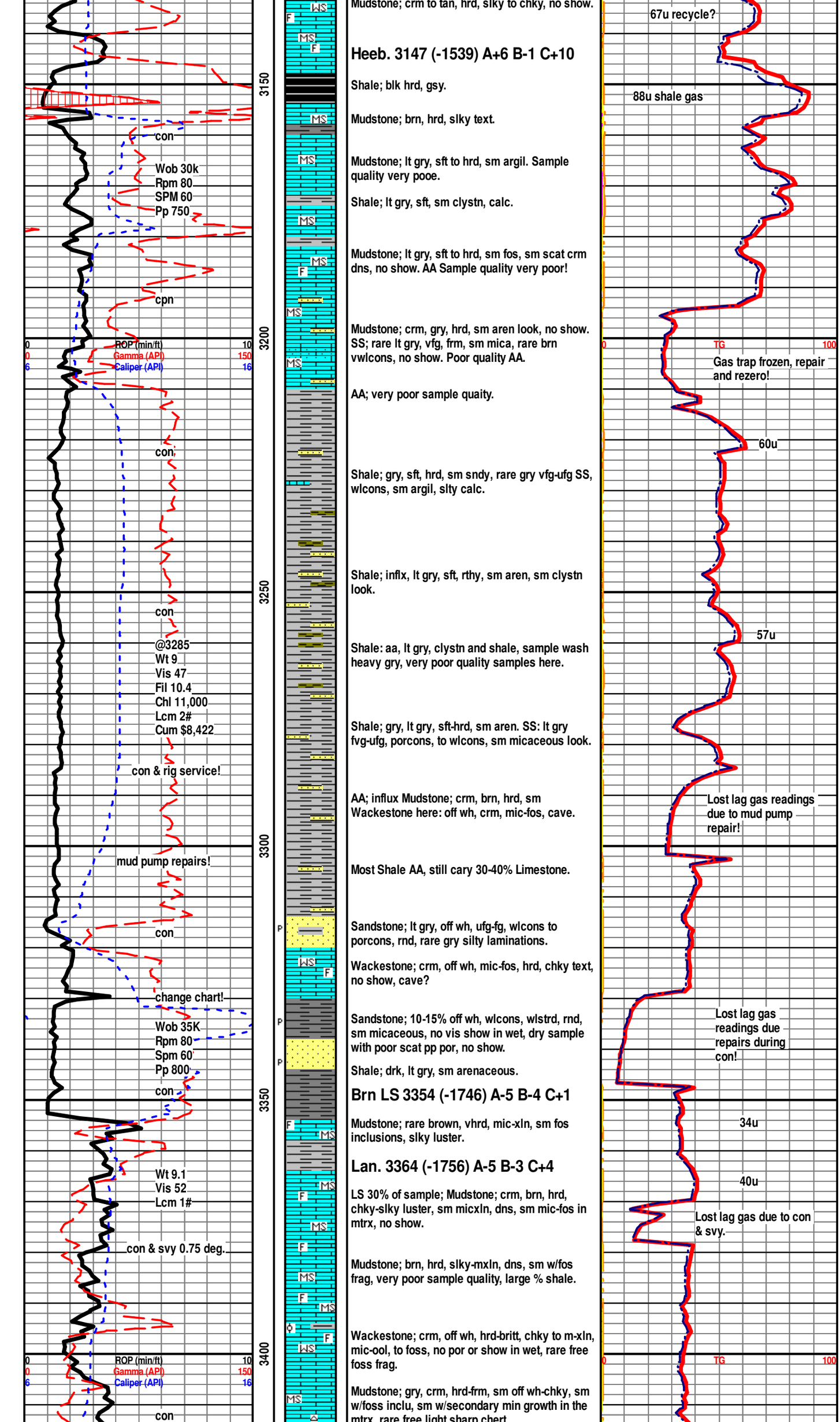

ROP (min/ft)
Gamma (API)
Caliper (API)
0
10
150
16
6
con
con & svy
1750
1800
1850
1900
1950
2000
Cottonwd 1853 (-245) A-8 B-1 C+2
TG
50
17u

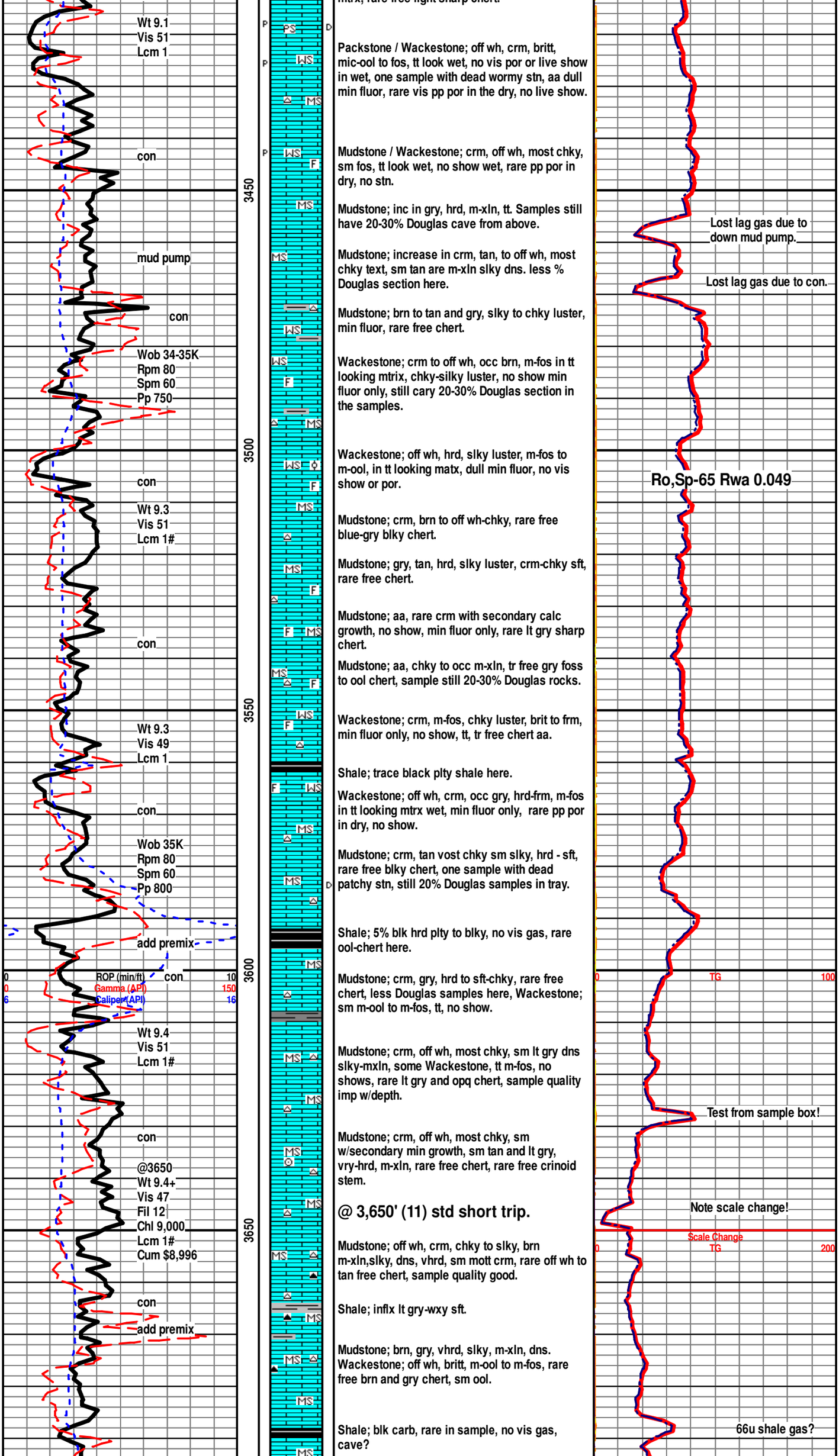

con
con
con
rig
con
con
con
con
con
2050
2100
2150
2200
2250
ROP (min/ft)
Gamma (API)
Caliper (API)
Onaga Sh 2181 (-573) A-6 B-1 C+2
Wabaun, 2222 (-614) A-6 B-6 C+3
16u
Note scale change!
Scale Change
TG
10u
5u
8u
58u +50
Sw ?
20u
27u recycle
15u
Note scale change
6u
15u
30u +24u
35u +29u
Sw ?

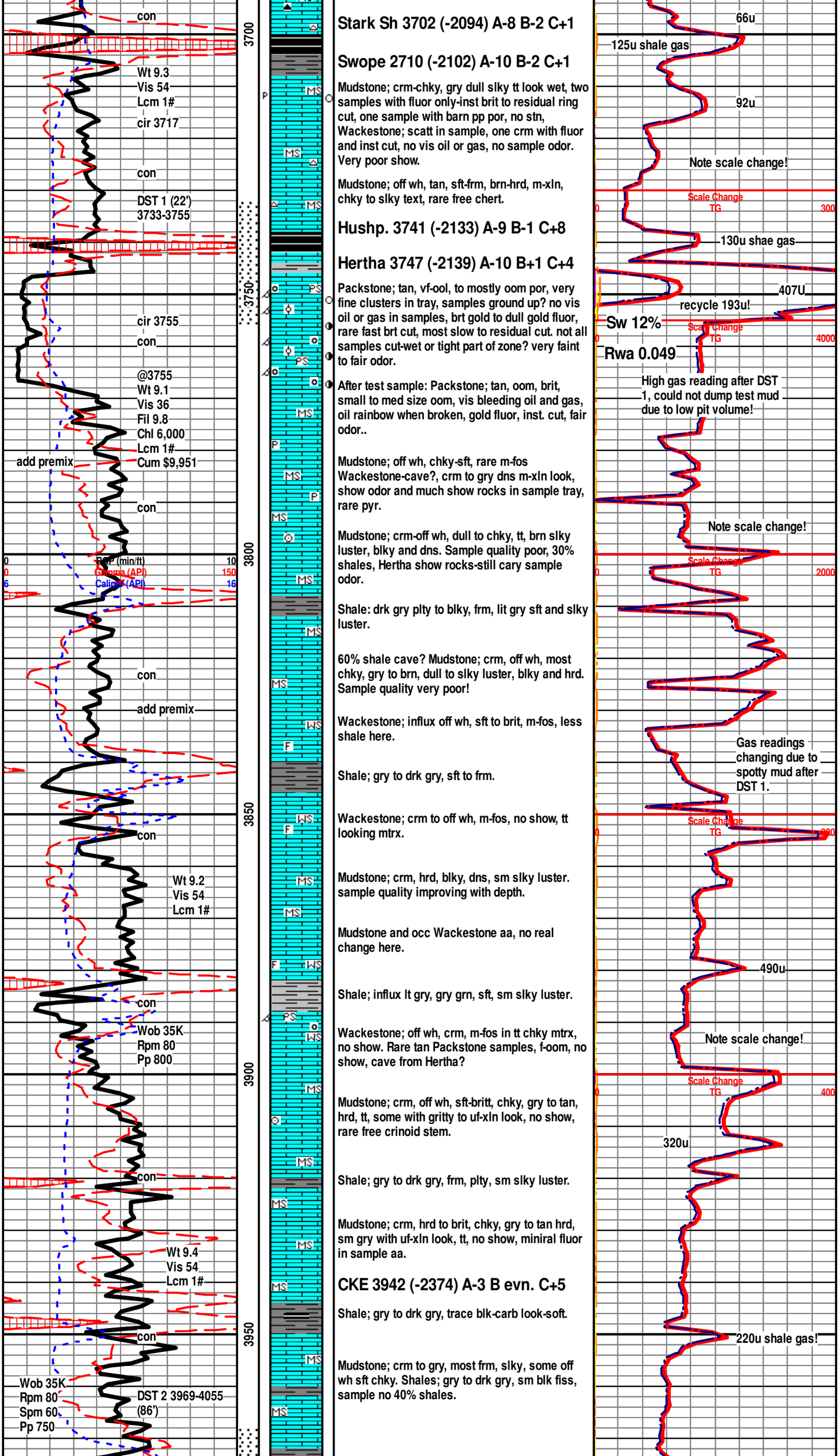

2300
2350
2400
2450
2500
2550
con
con & svy
con
0
ROP (min/ft)
10
0
Gamma (API)
150
6
Caliper (API)
16
con
mud pump
con
con
con
con
Stotler 2371 (-763) A-5 B-1 C+6
Tark. SS? 2403 (-795) A-1 C+6
zero nagitive?
0
TG
50
12u
15u
25u
22u
10u
check zero!
Note scale change!
Scale Change
TG
0
100
false spike!

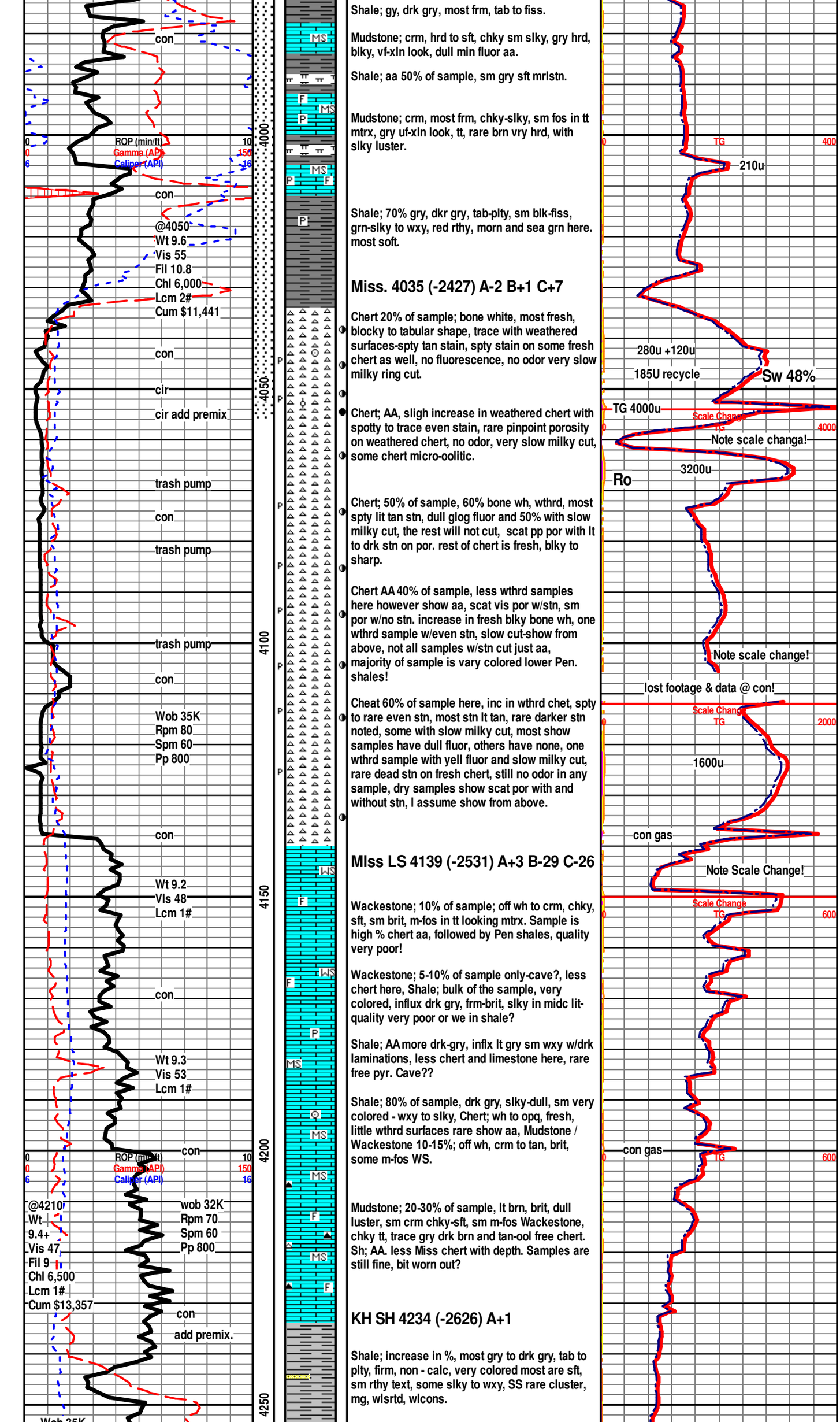

ROP (min/ft)
Gamma (API)
Caliper (API)
0
10
150
16
2600
2650
2700
2750
2800
2850
con
Howard 2630 (-1022) A-6 B-4 C+3
Topeka 2761 (-1153) A-2 B-3 C+7
@2759
Wt 9.4
Vis 29
Fil NA
Chl 58,000
Lcm 0
Cum $6,897
25u
40u
32u
TG
100
check, rezero unit!
Sw 44%
Ro, Sp-80 Rwa .0424

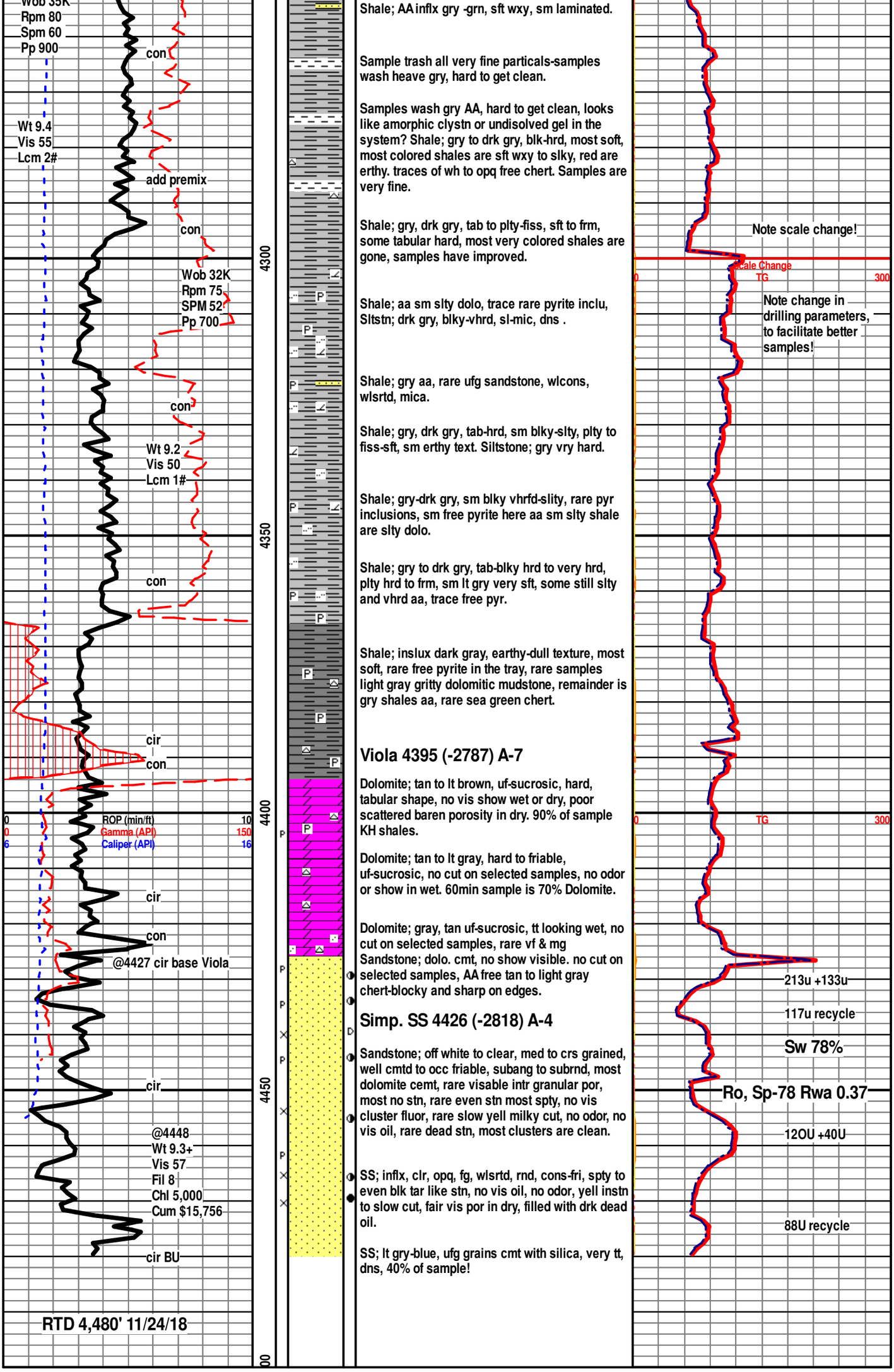

con & svy 1 deg
con
rig repair
con
con
displace w/chem gel!
0
ROP (min/ft)
10
0
Gamma (API)
150
6
Caliper (API)
16
con
jet pump!
jet pump!
jet pump!
con
Wob 35k
Rpm 80
Spm 60
Pp 750
con
con
con
2900
2950
3000
3050
3100
Jim Hall on location, 11/18/18
Commence 10' wet and dry samples @ 3,060'.
Wackestone / Packstone; off wh, occ crm, frm-brtt, mic-fos, tt look wet, no vis por wet, no show, dry rare vgy barn por-no show, influx drk gry, gry shale-cave.
Wackestone / Mudstone; crm, lg gry, hrd, sm mic-fos, tt look wet, sm sft chky, no show wet or dry.
Wackestone / Packstone; off wh, hrd-britt, mic-fos, chky to vfin xln text, tt looking in wet, no show, no visable por in dry.
Wackestone / Packstone; off wh, crm, occ lt gry, hrd-britt, blky to plty, mic-fos, tt look wet, rare blk dead stn on edge of sample, no cut, no vis por.
Shale; 40% drk gry, grty, frm to sft, plty rthy, no vis gas bub.
Shale; 70% aa in flux drk gry hrd, sm blk gsy.
Wackestone: crm, hrd, mic-fos, tt, no show wet,
75u shale gas
0
TG
100
work and replace jet pump!
add diesel to mud!
plugged sample line!
77u shale gas


3150
3200
3250
3300
3350
3400
con
Wob 30k
Rpm 80
SPM 60
Pp 750
cpn
ROP (min/ft) 0 10
Gamma (API) 0 150
Caliper (API) 6 16
con
con
@3285
Wt 9
Vis 47
Fil 10.4
Chl 11,000
Lcm 2#
Cum $8,422
con & rig service!
mud pump repairs!
con
change chart!
Wob 35K
Rpm 80
Spm 60
Pp 800
con
Wt 9.1
Vis 52
Lcm 1#
con & svy 0.75 deg.
ROP (min/ft) 0 10
Gamma (API) 0 150
Caliper (API) 6 16
con
Mudstone; crm to tan, hrd, slky to chky, no show.
Heeb. 3147 (-1539) A+6 B-1 C+10
Shale; blk hrd, gsy.
Mudstone; brn, hrd, slky text.
Mudstone; lt gry, sft to hrd, sm argil. Sample quality very pooe.
Shale; lt gry, sft, sm clystn, calc.
Mudstone; lt gry, sft to hrd, sm fos, sm scat crm dns, no show. AA Sample quality very poor!
Mudstone; crm, gry, hrd, sm aren look, no show. SS; rare lt gry, vfg, frm, sm mica, rare brn vwlcons, no show. Poor quality AA.
AA; very poor sample quaity.
Shale; gry, sft, hrd, sm sndy, rare gry vfg-ufg SS, wlcons, sm argil, slty calc.
Shale; inflx, lt gry, sft, rthy, sm aren, sm clystn look.
Shale: aa, lt gry, clystn and shale, sample wash heavy gry, very poor quality samples here.
Shale; gry, lt gry, sft-hrd, sm aren. SS: lt gry fvg-ufg, porcons, to wlcons, sm micaceous look.
AA; influx Mudstone; crm, brn, hrd, sm Wackestone here: off wh, crm, mic-fos, cave.
Most Shale AA, still cary 30-40% Limestone.
Sandstone; lt gry, off wh, ufg-fg, wlcons to porcons, rnd, rare gry silty laminations.
Wackestone; crm, off wh, mic-fos, hrd, chky text, no show, cave?
Sandstone; 10-15% off wh, wlcons, wlstrd, rnd, sm micaceous, no vis show in wet, dry sample with poor scat pp por, no show.
Shale; drk, lt gry, sm arenaceous.
Brn LS 3354 (-1746) A-5 B-4 C+1
Mudstone; rare brown, vhrd, mic-xln, sm fos inclusions, slky luster.
Lan. 3364 (-1756) A-5 B-3 C+4
LS 30% of sample; Mudstone; crm, brn, hrd, chky-slky luster, sm micxln, dns, sm mic-fos in mtrx, no show.
Mudstone; brn, hrd, slky-mxln, dns, sm w/fos frag, very poor sample quality, large % shale.
Wackestone; crm, off wh, hrd-britt, chky to m-xln, mic-ool, to foss, no por or show in wet, rare free foss frag.
Mudstone; gry, crm, hrd-frm, sm off wh-chky, sm w/foss inclu, sm w/secondary min growth in the
67u recycle?
88u shale gas
TG 0 100
Gas trap frozen, repair and rezero!
60u
57u
Lost lag gas readings due to mud pump repair!
Lost lag gas readings due repairs during con!
34u
40u
Lost lag gas due to con & svy.
TG 0 100


Wt 9.1
Vis 51
Lcm 1
con
mud pump
con
Wob 34-35K
Rpm 80
Spm 60
Pp 750
con
Wt 9.3
Vis 51
Lcm 1#
con
Wt 9.3
Vis 49
Lcm 1
con
Wob 35K
Rpm 80
Spm 60
Pp 800
add premix
0 ROP (min/ft) con 10
0 Gamma (API) 150
6 Caliper (API) 16
Wt 9.4
Vis 51
Lcm 1#
con
@3650
Wt 9.4+
Vis 47
Fil 12
Chl 9,000
Lcm 1#
Cum $8,996
con
add premix
3450
3500
3550
3600
3650
Packstone / Wackestone; off wh, crm, britt, mic-ool to fos, tt look wet, no vis por or live show in wet, one sample with dead wormy stn, aa dull min fluor, rare vis pp por in the dry, no live show.
Mudstone / Wackestone; crm, off wh, most chky, sm fos, tt look wet, no show wet, rare pp por in dry, no stn.
Mudstone; inc in gry, hrd, m-xln, tt. Samples still have 20-30% Douglas cave from above.
Mudstone; increase in crm, tan, to off wh, most chky text, sm tan are m-xln slky dns. less % Douglas section here.
Mudstone; brn to tan and gry, slky to chky luster, min fluor, rare free chert.
Wackestone; crm to off wh, occ brn, m-fos in tt looking mtrix, chky-silky luster, no show min fluor only, still cary 20-30% Douglas section in the samples.
Wackestone; off wh, hrd, slky luster, m-fos to m-ool, in tt looking matx, dull min fluor, no vis show or por.
Mudstone; crm, brn to off wh-chky, rare free blue-gry blky chert.
Mudstone; gry, tan, hrd, slky luster, crm-chky sft, rare free chert.
Mudstone; aa, rare crm with secondary calc growth, no show, min fluor only, rare lt gry sharp chert.
Mudstone; aa, chky to occ m-xln, tr free gry foss to ool chert, sample still 20-30% Douglas rocks.
Wackestone; crm, m-fos, chky luster, brit to frm, min fluor only, no show, tt, tr free chert aa.
Shale; trace black plty shale here.
Wackestone; off wh, crm, occ gry, hrd-frm, m-fos in tt looking mtrx wet, min fluor only, rare pp por in dry, no show.
Mudstone; crm, tan vost chky sm slky, hrd - sft, rare free blky chert, one sample with dead patchy stn, still 20% Douglas samples in tray.
Shale; 5% blk hrd plty to blky, no vis gas, rare ool-chert here.
Mudstone; crm, gry, hrd to sft-chky, rare free chert, less Douglas samples here, Wackestone; sm m-ool to m-fos, tt, no show.
Mudstone; crm, off wh, most chky, sm lt gry dns slky-mxln, some Wackestone, tt m-fos, no shows, rare lt gry and opq chert, sample quality imp w/depth.
Mudstone; crm, off wh, most chky, sm w/secondary min growth, sm tan and lt gry, vry-hrd, m-xln, rare free chert, rare free crinoid stem.
@ 3,650' (11) std short trip.
Mudstone; off wh, crm, chky to slky, brn m-xln,slky, dns, vhrd, sm mott crm, rare off wh to tan free chert, sample quality good.
Shale; inflx lt gry-wxy sft.
Mudstone; brn, gry, vhrd, slky, m-xln, dns. Wackestone; off wh, britt, m-ool to m-fos, rare free brn and gry chert, sm ool.
Shale; blk carb, rare in sample, no vis gas, cave?
Lost lag gas due to down mud pump.
Lost lag gas due to con.
Ro,Sp-65 Rwa 0.049
0 TG 100
Test from sample box!
Note scale change!
Scale Change
0 TG 200
66u shale gas?


con
Wt 9.3
Vis 54
Lcm 1#
cir 3717
con
DST 1 (22')
3733-3755
cir 3755
con
@3755
Wt 9.1
Vis 36
Fil 9.8
Chl 6,000
Lcm 1#
add premix
Cum $9,951
con
ROP (min/ft)
Gamma (API)
Caliper (API)
con
add premix
con
Wt 9.2
Vis 54
Lcm 1#
con
Wob 35K
Rpm 80
Pp 800
con
Wt 9.4
Vis 54
Lcm 1#
con
Wob 35K
Rpm 80
Spm 60
Pp 750
DST 2 3969-4055
(86')
3700
3750
3800
3850
3900
3950
Stark Sh 3702 (-2094) A-8 B-2 C+1
Swope 2710 (-2102) A-10 B-2 C+1
Mudstone; crm-chky, gry dull slky tt look wet, two samples with fluor only-inst brit to residual ring cut, one sample with barn pp por, no stn, Wackestone; scatt in sample, one crm with fluor and inst cut, no vis oil or gas, no sample odor. Very poor show.
Mudstone; off wh, tan, sft-frm, brn-hrd, m-xln, chky to slky text, rare free chert.
Hushp. 3741 (-2133) A-9 B-1 C+8
Hertha 3747 (-2139) A-10 B+1 C+4
Packstone; tan, vf-ool, to mostly oom por, very fine clusters in tray, samples ground up? no vis oil or gas in samples, brt gold to dull gold fluor, rare fast brt cut, most slow to residual cut. not all samples cut-wet or tight part of zone? very faint to fair odor.
After test sample: Packstone; tan, oom, brit, small to med size oom, vis bleeding oil and gas, oil rainbow when broken, gold fluor, inst. cut, fair odor..
Mudstone; off wh, chky-sft, rare m-fos Wackestone-cave?, crm to gry dns m-xln look, show odor and much show rocks in sample tray, rare pyr.
Mudstone; crm-off wh, dull to chky, tt, brn slky luster, blky and dns. Sample quality poor, 30% shales, Hertha show rocks-still cary sample odor.
Shale: drk gry plty to blky, frm, lit gry sft and slky luster.
60% shale cave? Mudstone; crm, off wh, most chky, gry to brn, dull to slky luster, blky and hrd. Sample quality very poor!
Wackestone; influx off wh, sft to brit, m-fos, less shale here.
Shale; gry to drk gry, sft to frm.
Wackestone; crm to off wh, m-fos, no show, tt looking mtrx.
Mudstone; crm, hrd, blky, dns, sm slky luster. sample quality improving with depth.
Mudstone and occ Wackestone aa, no real change here.
Shale; influx lt gry, gry grn, sft, sm slky luster.
Wackestone; off wh, crm, m-fos in tt chky mtrx, no show. Rare tan Packstone samples, f-oom, no show, cave from Hertha?
Mudstone; crm, off wh, sft-britt, chky, gry to tan, hrd, tt, some with gritty to uf-xln look, no show, rare free crinoid stem.
Shale; gry to drk gry, frm, plty, sm slky luster.
Mudstone; crm, hrd to brit, chky, gry to tan hrd, sm gry with uf-xln look, tt, no show, miniral fluor in sample aa.
CKE 3942 (-2374) A-3 B evn. C+5
Shale; gry to drk gry, trace blk-carb look-soft.
Mudstone; crm to gry, most frm, slky, some off wh sft chky. Shales; gry to drk gry, sm blk fiss, sample no 40% shales.
66u
125u shale gas
92u
Note scale change!
Scale Change
TG
130u shae gas
407U
recycle 193u!
Sw 12%
Rwa 0.049
High gas reading after DST 1, could not dump test mud due to low pit volume!
Note scale change!
Gas readings changing due to spotty mud after DST 1.
490u
Note scale change!
320u
220u shale gas!


ROP (min/ft)
Gamma (API)
Caliper (API)
con
@4050
Wt 9.6
Vis 55
Fil 10.8
Chl 6,000
Lcm 2#
Cum $11,441
con
cir
cir add premix
trash pump
con
trash pump
trash pump
con
Wob 35K
Rpm 80
Spm 60
Pp 800
con
Wt 9.2
Vis 48
Lcm 1#
con
Wt 9.3
Vis 53
Lcm 1#
con
@4210
Wt 9.4+
Vis 47
Fil 9
Chl 6,500
Lcm 1#
Cum $13,357
wob 32K
Rpm 70
Spm 60
Pp 800
con
add premix.
4000
4050
4100
4150
4200
4250
MS
F
P
WS
Shale; gy, drk gry, most frm, tab to fiss.
Mudstone; crm, hrd to sft, chky sm slky, gry hrd, blky, vf-xln look, dull min fluor aa.
Shale; aa 50% of sample, sm gry sft mrlstn.
Mudstone; crm, most frm, chky-slky, sm fos in tt mtrx, gry uf-xln look, tt, rare brn vry hrd, with slky luster.
Shale; 70% gry, dkr gry, tab-plty, sm blk-fiss, grn-slky to wxy, red rthy, morn and sea grn here. most soft.
Miss. 4035 (-2427) A-2 B+1 C+7
Chert 20% of sample; bone white, most fresh, blocky to tabular shape, trace with weathered surfaces-spty tan stain, spty stain on some fresh chert as well, no fluorescence, no odor very slow milky ring cut.
Chert; AA, sligh increase in weathered chert with spotty to trace even stain, rare pinpoint porosity on weathered chert, no odor, very slow milky cut, some chert micro-oolitic.
Chert; 50% of sample, 60% bone wh, wthrd, most spty lit tan stn, dull glog fluor and 50% with slow milky cut, the rest will not cut, scat pp por with lt to drk stn on por. rest of chert is fresh, blky to sharp.
Chert AA 40% of sample, less wthrd samples here however show aa, scat vis por w/stn, sm por w/no stn. increase in fresh blky bone wh, one wthrd sample w/even stn, slow cut-show from above, not all samples w/stn cut just aa, majority of sample is vary colored lower Pen. shales!
Cheat 60% of sample here, inc in wthrd chet, spty to rare even stn, most stn lt tan, rare darker stn noted, some with slow milky cut, most show samples have dull fluor, others have none, one wthrd sample with yell fluor and slow milky cut, rare dead stn on fresh chert, still no odor in any sample, dry samples show scat por with and without stn, I assume show from above.
MIss LS 4139 (-2531) A+3 B-29 C-26
Wackestone; 10% of sample; off wh to crm, chky, sft, sm brit, m-fos in tt looking mtrx. Sample is high % chert aa, followed by Pen shales, quality very poor!
Wackestone; 5-10% of sample only-cave?, less chert here, Shale; bulk of the sample, very colored, influx drk gry, frm-brit, slky in midc lit- quality very poor or we in shale?
Shale; AA more drk-gry, inflx lt gry sm wxy w/drk laminations, less chert and limestone here, rare free pyr. Cave??
Shale; 80% of sample, drk gry, slky-dull, sm very colored - wxy to slky, Chert; wh to opq, fresh, little wthrd surfaces rare show aa, Mudstone / Wackestone 10-15%; off wh, crm to tan, brit, some m-fos WS.
Mudstone; 20-30% of sample, lt brn, brit, dull luster, sm crm chky-sft, sm m-fos Wackestone, chky tt, trace gry drk brn and tan-ool free chert. Sh; AA. less Miss chert with depth. Samples are still fine, bit worn out?
KH SH 4234 (-2626) A+1
Shale; increase in %, most gry to drk gry, tab to plty, firm, non - calc, very colored most are sft, sm rthy text, some slky to wxy, SS rare cluster, mg, wlsrtd, wlcons.
TG
210u
280u +120u
185U recycle
Sw 48%
TG 4000u
Scale Change
Note scale changa!
3200u
Ro
Note scale change!
lost footage & data @ con!
1600u
con gas
Note Scale Change!
con gas


Wob 35K
Rpm 80
Spm 60
Pp 900
con
Wt 9.4
Vis 55
Lcm 2#
add premix
con
Wob 32K
Rpm 75
SPM 52
Pp 700
con
Wt 9.2
Vis 50
Lcm 1#
con
cir
con
ROP (min/ft) 0 10
Gamma (API) 0 150
Caliper (API) 6 16
cir
con
@4427 cir base Viola
cir
@4448
Wt 9.3+
Vis 57
Fil 8
Chl 5,000
Cum $15,756
cir BU
RTD 4,480' 11/24/18
4300
4350
4400
4450
Shale; AA inflx gry -grn, sft wxy, sm laminated.
Sample trash all very fine particals-samples wash heave gry, hard to get clean.
Samples wash gry AA, hard to get clean, looks like amorphic clystn or undisolved gel in the system? Shale; gry to drk gry, blk-hrd, most soft, most colored shales are sft wxy to slky, red are erthy. traces of wh to opq free chert. Samples are very fine.
Shale; gry, drk gry, tab to plty-fiss, sft to frm, some tabular hard, most very colored shales are gone, samples have improved.
Shale; aa sm slty dolo, trace rare pyrite inclu, Sltstn; drk gry, blky-vhrd, sl-mic, dns .
Shale; gry aa, rare ufg sandstone, wlcons, wlsrtd, mica.
Shale; gry, drk gry, tab-hrd, sm blky-slty, plty to fiss-sft, sm erthy text. Siltstone; gry vry hard.
Shale; gry-drk gry, sm blky vhrfd-slity, rare pyr inclusions, sm free pyrite here aa sm slty shale are slty dolo.
Shale; gry to drk gry, tab-blky hrd to very hrd, plty hrd to frm, sm lt gry very sft, some still slty and vhrd aa, trace free pyr.
Shale; inslux dark gray, earthy-dull texture, most soft, rare free pyrite in the tray, rare samples light gray gritty dolomitic mudstone, remainder is gry shales aa, rare sea green chert.
Viola 4395 (-2787) A-7
Dolomite; tan to lt brown, uf-sucrosic, hard, tabular shape, no vis show wet or dry, poor scattered baren porosity in dry. 90% of sample KH shales.
Dolomite; tan to lt gray, hard to friable, uf-sucrosic, no cut on selected samples, no odor or show in wet. 60min sample is 70% Dolomite.
Dolomite; gray, tan uf-sucrosic, tt looking wet, no cut on selected samples, rare vf & mg Sandstone; dolo. cmt, no show visible. no cut on selected samples, AA free tan to light gray chert-blocky and sharp on edges.
Simp. SS 4426 (-2818) A-4
Sandstone; off white to clear, med to crs grained, well cmtd to occ friable, subang to subrnd, most dolomite cemt, rare visable intr granular por, most no stn, rare even stn most spty, no vis cluster fluor, rare slow yell milky cut, no odor, no vis oil, rare dead stn, most clusters are clean.
SS; inflx, clr, opq, fg, wlsrtd, rnd, cons-fri, spty to even blk tar like stn, no vis oil, no odor, yell instn to slow cut, fair vis por in dry, filled with drk dead oil.
SS; lt gry-blue, ufg grains cmt with silica, very tt, dns, 40% of sample!
Note scale change!
Scale Change
TG 0 300
Note change in drilling parameters, to facilitate better samples!
TG 0 300
213u +133u
117u recycle
Sw 78%
Ro, Sp-78 Rwa 0.37
120U +40U
88U recycle