Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1234754

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 # 31725
Name: Shelby Resources LLC
Address 1: 2717 Canal blvd
Address 2: Suite C
City: HAYS State: KS Zip: 67601 + __ __ __ __
Contact Person: Chris Gottschlak
Phone: (785) 623-1524
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Jeremy Schwartz
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 #:

11/13/2014	11/21/2014	12/04/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-26041-00-00
Spot Description:
NE - NW - NE - SW Sec. 15 Twp. 18 S. R. 14 ☐ East ☑ West
2444 Feet from ☐ North / ☑ South Line of Section
1811 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: Barton
Lease Name: Wondra-Stoss Unit Well #: 1-15
Field Name:
Producing Formation: Arbuckle
Elevation: Ground: 1924 Kelly Bushing: 1937
Total Vertical Depth: 3530 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 900 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: 45000 ppm Fluid volume: 1000 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Shelby Resources
Lease Name: Clark License #: 31725
Quarter SW Sec. 24 Twp. 17 S. R. 14 ☐ East ☑ West
County: Barton Permit #: d31557

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: 12/10/2014
☑ **Confidential Release Date:** 12/09/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 12/11/2014

[redacted] 1234754

Operator Name: Shelby Resources LLC Lease Name: Wondra-Stoss Unit Well #: 1-15

Sec. 15 Twp. 18 S. R. 14 ☐ East ☑ West County: Barton

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

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

Name	Top	Datum
Heebner	3104	-1167
L-KC	3186	-1249
Stark Shale	3371	-1434
BKC	3394	-1457
Conglomerate	3410	--1473
Arbuckle	3420	-1483
LTD	3531	-1594

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	900	60/40 Poz	375	2% gel / 3% cc
Production	7.875	5.5	14	3500	AA2	100	25 gel / 3% cc

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	-			
	-			

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 *(Amount and Kind of Material Used)*	Depth
4	3423-26	150 gal 15% INS - 300 gal 15% INS	

TUBING RECORD: Size: 2.375 Set At: 3448 Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR.

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	30		15		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Wondra-Stoss Unit 1-15
Doc ID	1234754

All Electric Logs Run

Dua Induction
Compensated Neutron
Micro
Sonic
Cement Bond

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Wondra-Stoss Unit 1-15
Doc ID	1234754

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	900	60/40 Poz	375	2% gel / 3% cc
Production	7.875	5.5	14	3500	AA2	100	25 gel / 3% cc

DRILL STEM TEST REPORT

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60407 **DST#: 1**

Test Start: 2014.11.16 @ 11:40:00

GENERAL INFORMATION:

Formation: **Lansing "A-B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:57:30
Time Test Ended: 18:45:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S#/30/Great Bend

Interval: 3179.00 ft (KB) To 3222.00 ft (KB) (TVD)
Total Depth: 3222.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

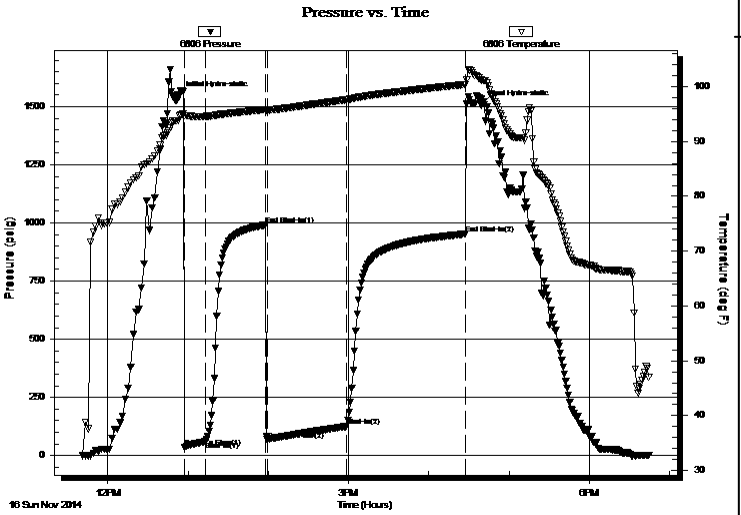
Reference Elevations: 3222.00 ft (KB)
3179.00 ft (CF)
KB to GR/CF: 43.00 ft

Serial #: 6806 **Inside**

Press@RunDepth: 125.26 psig @ 3218.00 ft (KB)
Start Date: 2014.11.16 End Date: 2014.11.16
Start Time: 11:41:00 End Time: 18:45:00

Capacity: 8000.00 psig
Last Calib.: 2014.11.16
Time On Btm: 2014.11.16 @ 12:53:30
Time Off Btm: 2014.11.16 @ 16:39:00

TEST COMMENT: 1st Open/ 15 Minutes. Fair blow built to 10 inches into bucket of water.
1st shut In/ 45 Minutes. Weak surface blow back.
2nd Open/ 60 Minutes. Good blow built to bottom of 5 gallon bucket in 17 minutes and 20 seconds.
2nd Shut In/ 90 Minutes. Weak surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1548.00	94.64	Initial Hydro-static
4	37.27	94.74	Open To Flow (1)
19	60.26	94.60	Shut-In(1)
64	991.28	95.86	End Shut-In(1)
66	67.50	95.71	Open To Flow (2)
125	125.26	97.64	Shut-In(2)
214	952.81	100.41	End Shut-In(2)
226	1506.48	101.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	63 feet Gas in pipe.	0.00
189.00	Gas, oil, mud cut water	0.93
0.00	2.5% gas 2.5% Oil 25% Mud 70% water	0.00
63.00	Muddy water	0.31
0.00	15% mud, 85% water	0.00
0.00	Resist recov. .21 at 40 degrees	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60407 **DST#: 1**

Test Start: 2014.11.16 @ 11:40:00

GENERAL INFORMATION:

Formation: **Lansing "A-B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:57:30
Time Test Ended: 18:45:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S#/30/Great Bend

Interval: 3179.00 ft (KB) To 3222.00 ft (KB) (TVD)
Total Depth: 3222.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

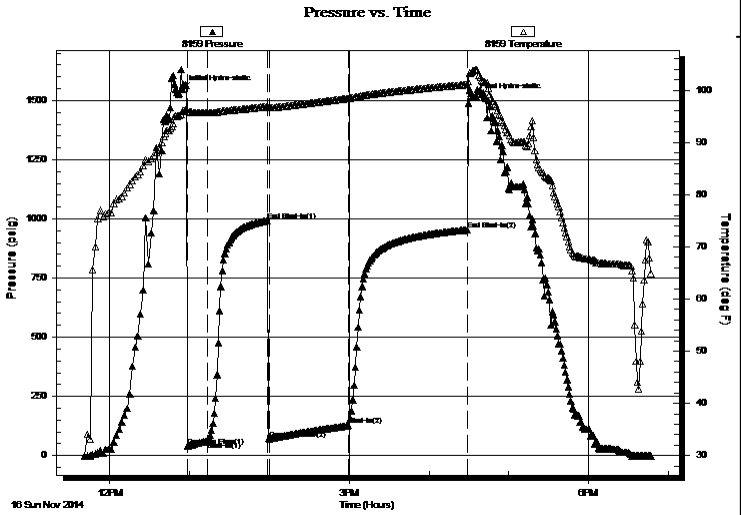
Reference Elevations: 3222.00 ft (KB)
3179.00 ft (CF)
KB to GR/CF: 43.00 ft

Serial #: 8159 **Outside**

Press@RunDepth: 953.83 psig @ 3219.00 ft (KB)
Start Date: 2014.11.16 End Date: 2014.11.16
Start Time: 11:41:00 End Time: 18:46:30

Capacity: 8000.00 psig
Last Calib.: 2014.11.16
Time On Btm: 2014.11.16 @ 12:54:30
Time Off Btm: 2014.11.16 @ 16:33:00

TEST COMMENT: 1st Open/ 15 Minutes. Fair blow built to 10 inches into bucket of water.
1st shut In/ 45 Minutes. Weak surface blow back.
2nd Open/ 60 Minutes. Good blow built to bottom of 5 gallon bucket in 17 minutes and 20 seconds.
2nd Shut In/ 90 Minutes. Weak surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1548.10	95.97	Initial Hydro-static
4	38.44	95.92	Open To Flow (1)
19	61.38	95.65	Shut-In(1)
64	992.29	96.86	End Shut-In(1)
66	69.50	96.63	Open To Flow (2)
125	127.68	98.41	Shut-In(2)
214	953.83	101.07	End Shut-In(2)
219	1511.46	103.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	63 feet Gas in pipe.	0.00
189.00	Gas, oil, mud cut water	0.93
0.00	2.5% gas 2.5% Oil 25% Mud 70% water	0.00
63.00	Muddy water	0.31
0.00	15% mud, 85% water	0.00
0.00	Resist recov. .21 at 40 degrees	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601

ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60407 **DST#: 1**

Test Start: 2014.11.16 @ 11:40:00

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:	26000 ppm
Viscosity:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4700.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	63 feet Gas in pipe.	0.000
189.00	Gas, oil, mud cut water	0.929
0.00	2.5% gas 2.5% Oil 25% Mud 70% water	0.000
63.00	Muddy water	0.310
0.00	15% mud, 85% water	0.000
0.00	Resist recov. .21 at 40 degrees	0.000

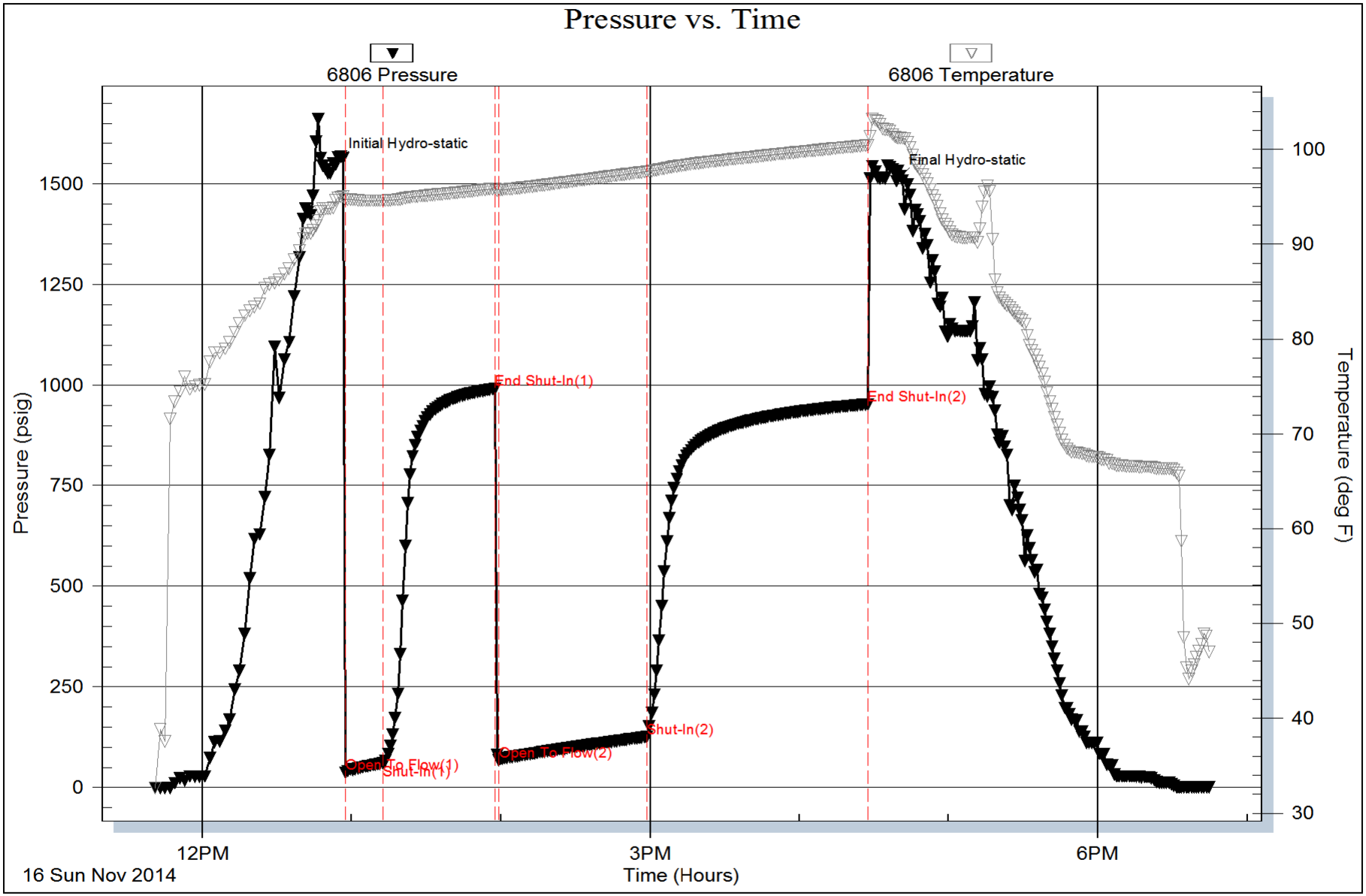
Total Length: 252.00 ft Total Volume: 1.239 bbl

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

Laboratory Name: Laboratory Location:

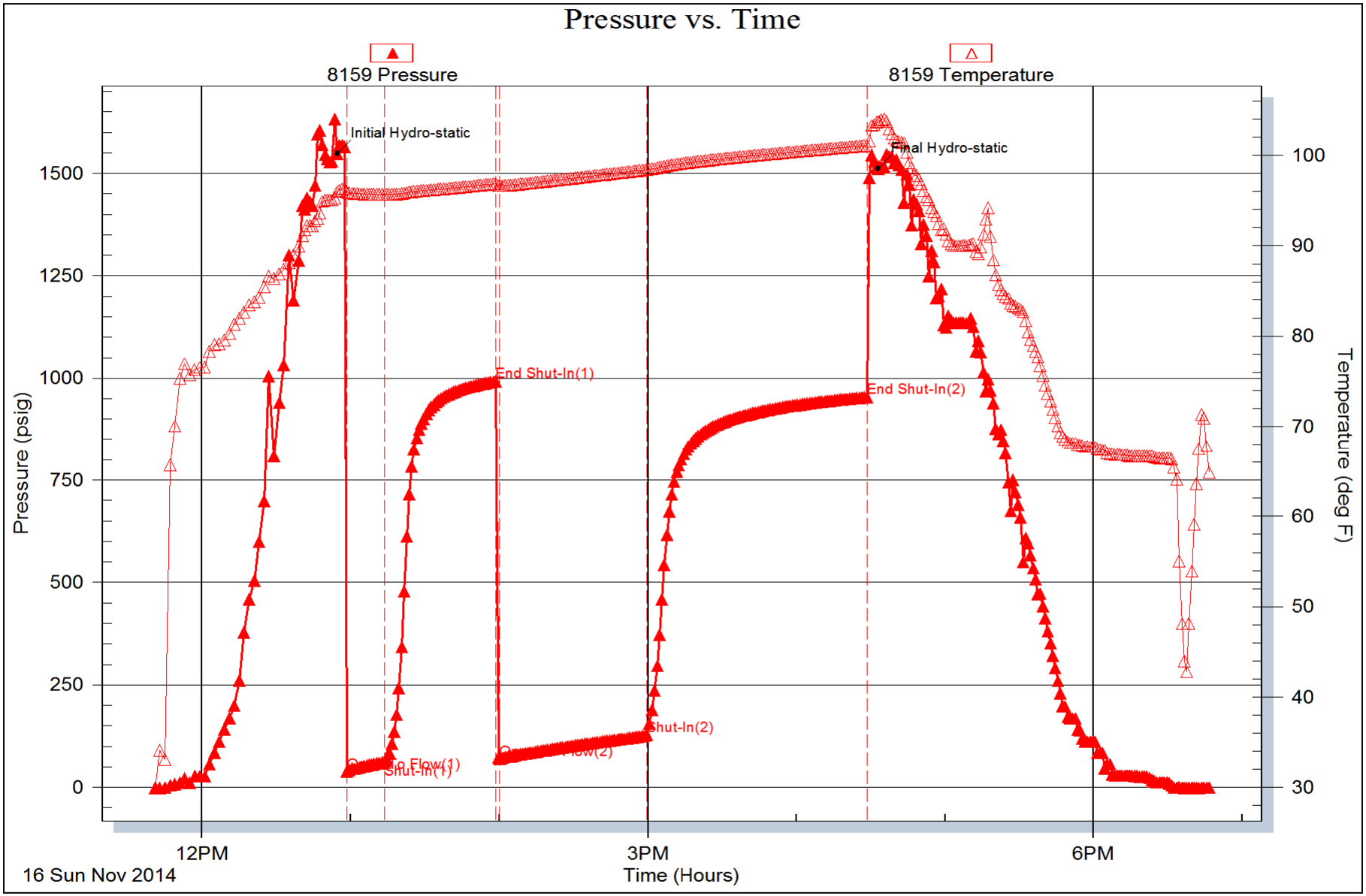
Recovery Comments:

Serial #: 6806 **Inside** Shelby Resources, LLC. Wondra-Stoss #1-15 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 60407 Printed: 2014.11.16 @ 20:44:37

Serial #: 8159 **Outside** Shelby Resources, LLC. Wondra-Stoss #1-15 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 60407 Printed: 2014.11.16 @ 20:44:37

DRILL STEM TEST REPORT

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60408 **DST#: 2**

Test Start: 2014.11.17 @ 04:55:00

GENERAL INFORMATION:

Formation: **Lansing "H"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:56:00
Time Test Ended: 13:11:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3/30/Great Bend

Interval: 3305.00 ft (KB) To 3330.00 ft (KB) (TVD)
Total Depth: 3330.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

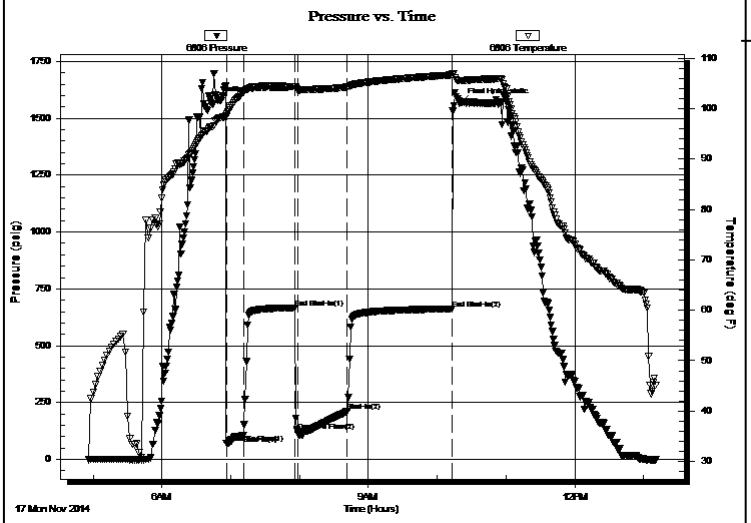
Reference Elevations: 3222.00 ft (KB)
3179.00 ft (CF)
KB to GR/CF: 43.00 ft

Serial #: 6806 **Inside**

Press@RunDepth: 212.31 psig @ 3326.00 ft (KB)
Start Date: 2014.11.17 End Date: 2014.11.17
Start Time: 04:56:00 End Time: 13:11:00

Capacity: 8000.00 psig
Last Calib.: 2014.11.17
Time On Btm: 2014.11.17 @ 06:50:30
Time Off Btm: 2014.11.17 @ 10:20:30

TEST COMMENT: 1st Open/ 15 Minutes. Strong blow built to bottom of 5 gallon bucket in 1 minutes.
1st Shut In/ 45 Minutes. Blow back built to 6 inches into deisel.
2nd Open/ 45 Minutes. Strong blow built to bottom of 5 gallon bucket in 1 minutes. Gas to surface in 15 minutes. Gas was unmeasurable.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1578.89	98.19	Initial Hydro-static
6	70.16	98.41	Open To Flow (1)
21	107.34	103.25	Shut-In(1)
66	667.56	104.43	End Shut-In(1)
68	124.14	103.82	Open To Flow (2)
111	212.31	104.30	Shut-In(2)
203	662.19	106.71	End Shut-In(2)
210	1567.71	105.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
640.00	100% Clean gassy oil	4.79

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60408 **DST#: 2**

Test Start: 2014.11.17 @ 04:55:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	40 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4700.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

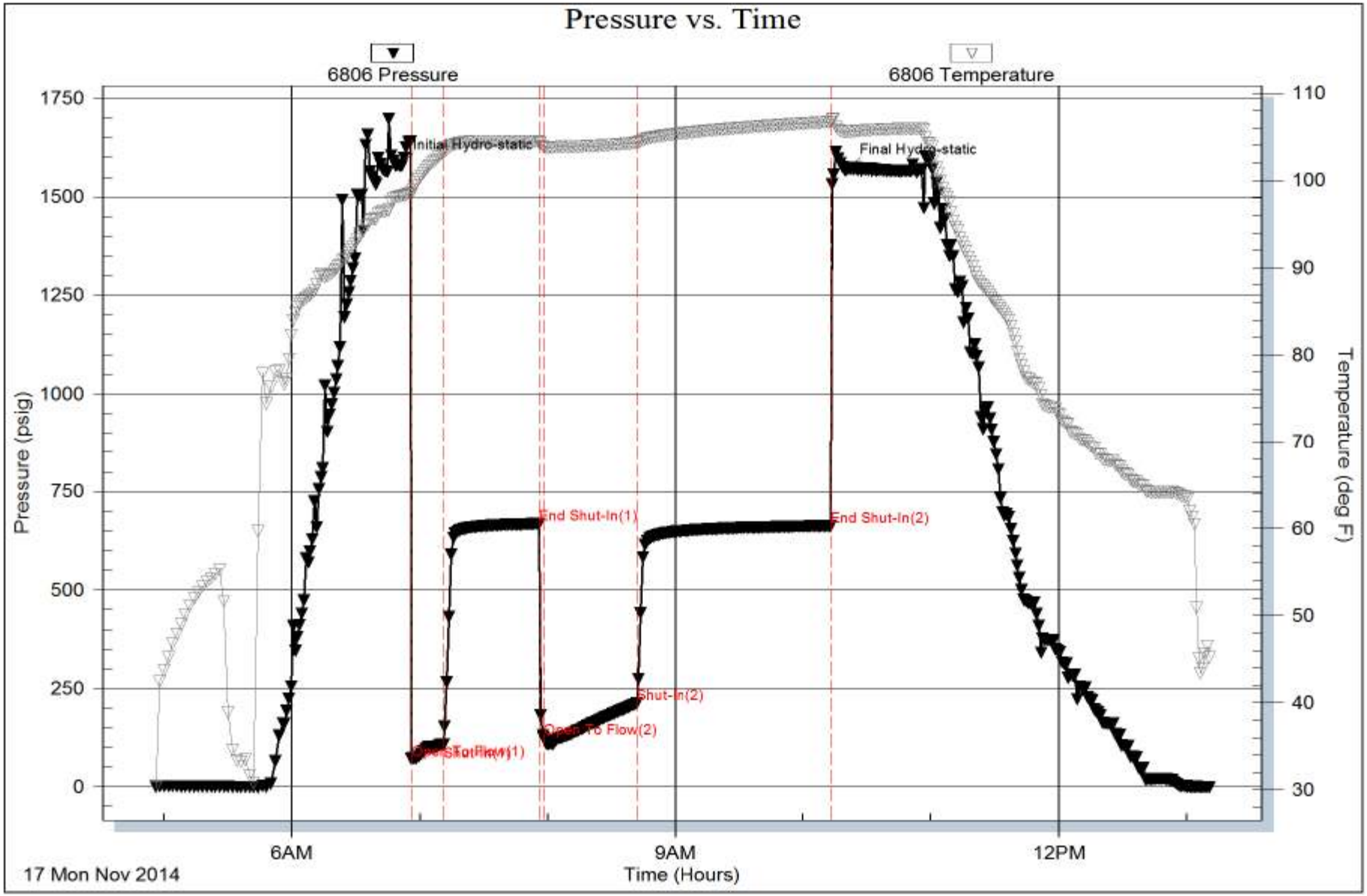
Recovery Table

Length ft	Description	Volume bbl
640.00	100% Clean gassy oil	4.790

Total Length: 640.00 ft Total Volume: 4.790 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6806 **Inside** Shelby Resources, LLC. Wondra-Stoss #1-15 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 60408 Printed: 2014.11.17 @ 14:01:46

DRILL STEM TEST REPORT

Shelby Resources, LLC.

2717 Canal BLVD Suite C
Hays Ks, 67601

ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60409 **DST#: 3**

Test Start: 2014.11.18 @ 12:00:00

GENERAL INFORMATION:

Formation: **Lansing "I-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:55:30
Time Test Ended: 19:39:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3/30/Great Bend

Interval: 3335.00 ft (KB) To 3405.00 ft (KB) (TVD)
Total Depth: 3405.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

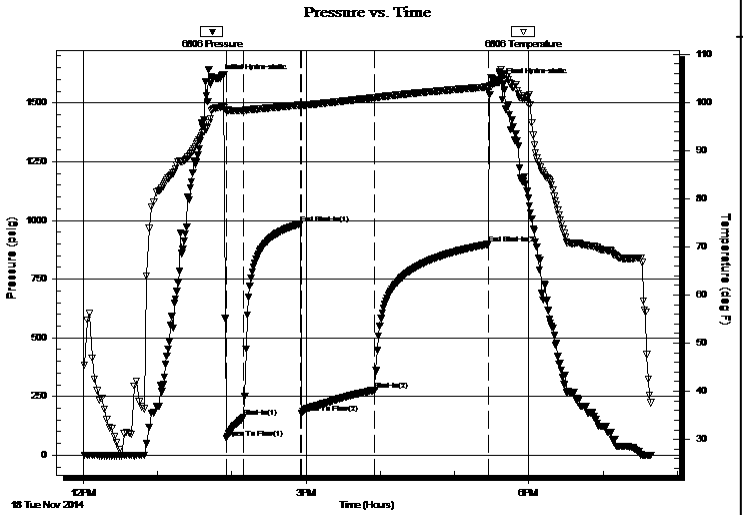
Reference Elevations: 3222.00 ft (KB)
3179.00 ft (CF)
KB to GR/CF: 43.00 ft

Serial #: 6806 **Inside**

Press@RunDepth: 278.06 psig @ 3401.36 ft (KB)
Start Date: 2014.11.18 End Date: 2014.11.18
Start Time: 12:01:00 End Time: 19:39:00

Capacity: 8000.00 psig
Last Calib.: 2014.11.18
Time On Btm: 2014.11.18 @ 13:49:30
Time Off Btm: 2014.11.18 @ 17:36:00

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 6 minutes and 20 seconds.
1st Shut In/ 45 Minutes. No blow back.
2nd Open/ 60 Minutes. Good blow built to bottom of 5 gallon bucket in 10 minutes.
2nd Shut In/ 90 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1603.03	98.94	Initial Hydro-static
6	71.22	98.46	Open To Flow (1)
20	161.59	98.29	Shut-In(1)
66	985.66	99.48	End Shut-In(1)
67	180.48	99.36	Open To Flow (2)
126	278.06	100.95	Shut-In(2)
218	899.45	103.19	End Shut-In(2)
227	1586.47	104.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
156.00	Gassy oil cut mud	0.77
0.00	15% gas, 25% oil, 60% mud	0.00
126.00	Oil cut muddy water	0.62
0.00	5% oil, 40% mud, 55% water	0.00
63.00	muddy water	0.73
0.00	40% mud, 60% water	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources, LLC.

2717 Canal BLVD Suite C
Hays Ks, 67601

ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60409 **DST#: 3**

Test Start: 2014.11.18 @ 12:00:00

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:	27000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.98 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5300.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
156.00	Gassy oil cut mud	0.767
0.00	15% gas, 25% oil, 60% mud	0.000
126.00	Oil cut muddy water	0.620
0.00	5% oil, 40% mud, 55% water	0.000
63.00	muddy water	0.733
0.00	40% mud, 60% water	0.000
126.00	Muddy water	1.767
0.00	20% mud, 80% water	0.000
63.00	100% water	0.884

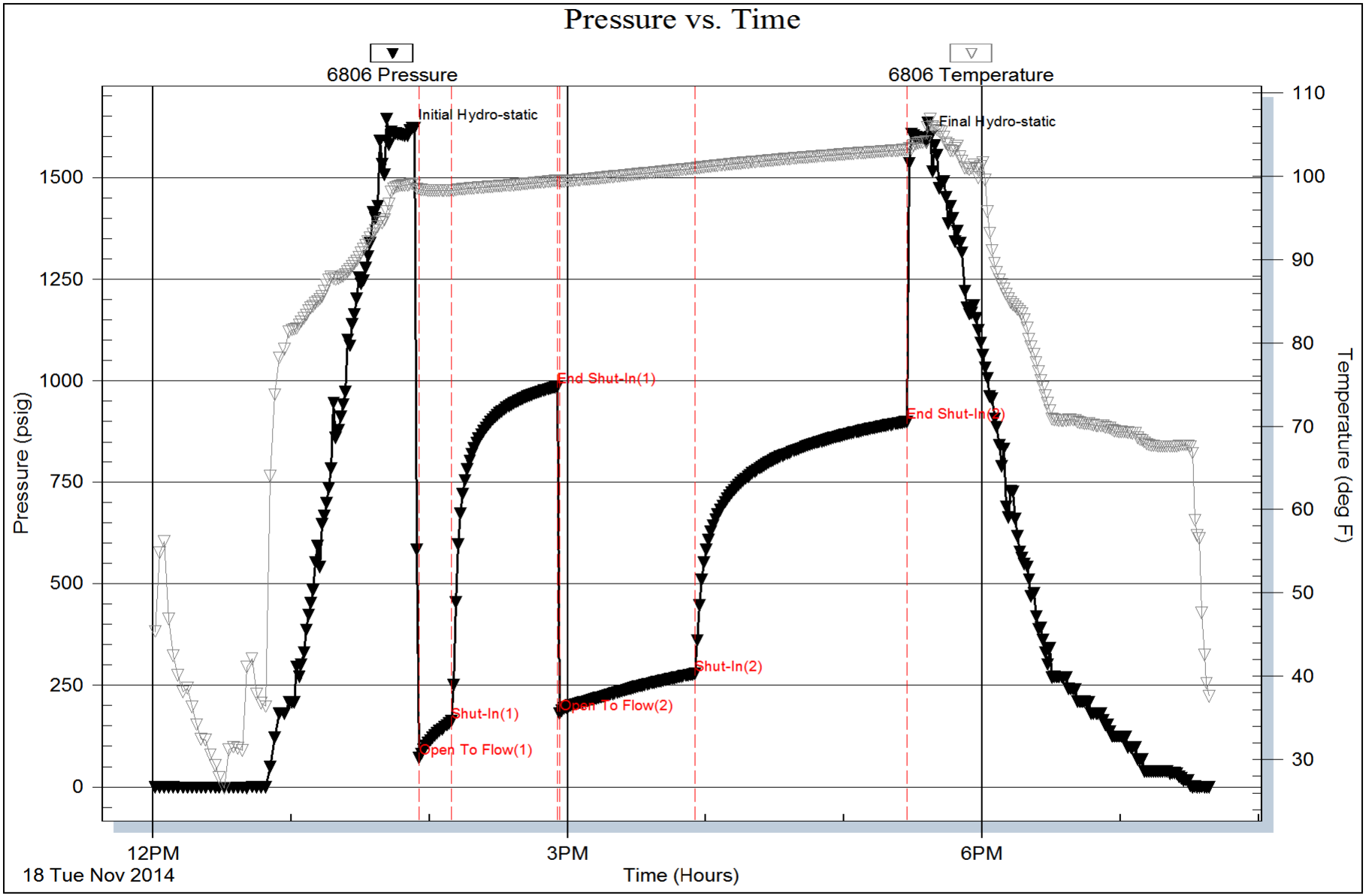
Total Length: 534.00 ft Total Volume: 4.771 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: resost recov, .22 at 40 degrees

Serial #: 6806 **Inside** Shelby Resources, LLC. Wondra-Stoss #1-15 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 60409 Printed: 2014.11.18 @ 08:07:53

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Shelby Resources, LLC.**

2717 Canal BLVD
Suite C
Hays Ks, 67601

ATTN: Jeremy Schwartz

Wondra-Stoss #1-15

15/18s/14w/Barton

Start Date: 2014.11.18 @ 15:52:00
End Date: 2014.11.18 @ 23:20:30
Job Ticket #: 60410 DST #: 4

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

Printed: 2014.11.19 @ 12:17:20

DRILL STEM TEST REPORT

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60410 **DST#: 4**

Test Start: 2014.11.18 @ 15:52:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:43:30
Time Test Ended: 23:20:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3/30/Great Bend

Interval: 3392.00 ft (KB) To 3428.00 ft (KB) (TVD)
Total Depth: 3428.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

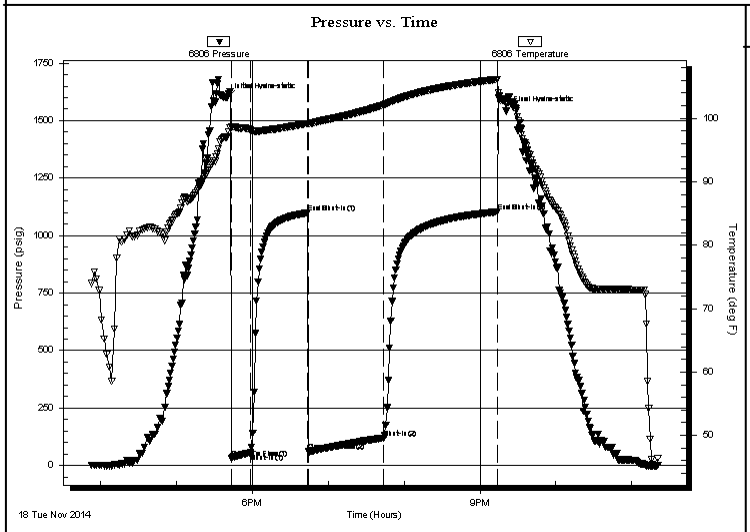
Reference Elevations: 3222.00 ft (KB)
3179.00 ft (CF)
KB to GR/CF: 43.00 ft

Serial #: 6806 **Inside**

Press@RunDepth: 119.88 psig @ 3424.00 ft (KB)
Start Date: 2014.11.18 End Date: 2014.11.18
Start Time: 15:53:00 End Time: 23:20:30

Capacity: 8000.00 psig
Last Calib.: 2014.11.19
Time On Btm: 2014.11.18 @ 17:40:30
Time Off Btm: 2014.11.18 @ 21:20:30

TEST COMMENT: 1st Open/ 15 Minutes. Weak blow built to 3 1/2 inches into bucket of deisel.
1st Shut In/ 45 Minutes. No blow back.
2nd Open/ 60 Minutes. Fair blow built to bottom of 5 gallon bucket in 45 minutes.
2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1598.74	97.08	Initial Hydro-static
3	32.62	98.63	Open To Flow (1)
18	55.17	98.16	Shut-In(1)
63	1098.30	99.22	End Shut-In(1)
64	60.47	99.16	Open To Flow (2)
124	119.88	102.16	Shut-In(2)
213	1103.00	106.15	End Shut-In(2)
220	1541.64	102.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	63 feet gas in pipe	0.00
315.00	100% clean gassy oil	1.70

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60410 **DST#: 4**

Test Start: 2014.11.18 @ 15:52:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:43:30
Time Test Ended: 23:20:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3/30/Great Bend

Interval: 3392.00 ft (KB) To 3428.00 ft (KB) (TVD)
Total Depth: 3428.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

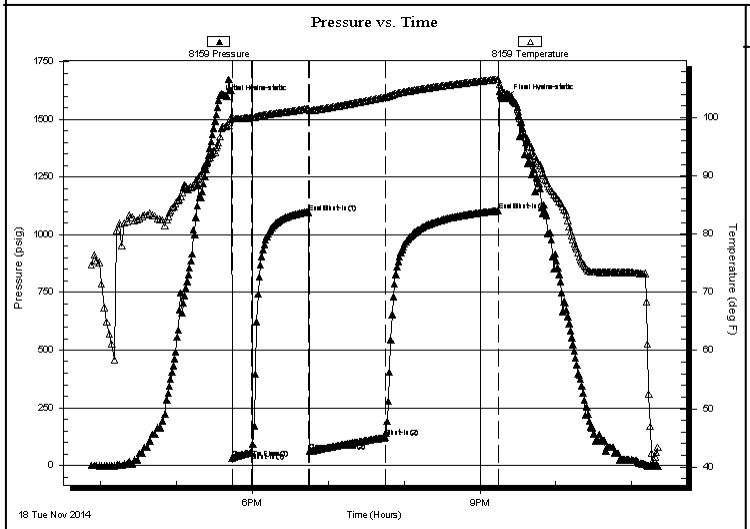
Reference Elevations: 3222.00 ft (KB)
3179.00 ft (CF)
KB to GR/CF: 43.00 ft

Serial #: 8159 **Outside**

Press@RunDepth: 1103.98 psig @ 3425.00 ft (KB)
Start Date: 2014.11.18 End Date: 2014.11.18
Start Time: 15:53:00 End Time: 23:21:00

Capacity: 8000.00 psig
Last Calib.: 2014.11.19
Time On Btm: 2014.11.18 @ 17:33:30
Time Off Btm: 2014.11.18 @ 21:21:00

TEST COMMENT: 1st Open/ 15 Minutes. Weak blow built to 3 1/2 inches into bucket of deisel.
1st Shut In/ 45 Minutes. No blow back.
2nd Open/ 60 Minutes. Fair blow built to bottom of 5 gallon bucket in 45 minutes.
2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1583.58	95.68	Initial Hydro-static
11	32.37	99.83	Open To Flow (1)
26	55.76	99.95	Shut-In(1)
71	1097.05	101.53	End Shut-In(1)
72	61.49	101.25	Open To Flow (2)
132	121.64	103.48	Shut-In(2)
221	1103.98	106.57	End Shut-In(2)
228	1589.55	104.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	63 feet gas in pipe	0.00
315.00	100% clean gassy oil	1.70

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60410 **DST#: 4**

Test Start: 2014.11.18 @ 15:52:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	40 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 cm³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4400.00 ppm				
Filter Cake:	2.00 inches				

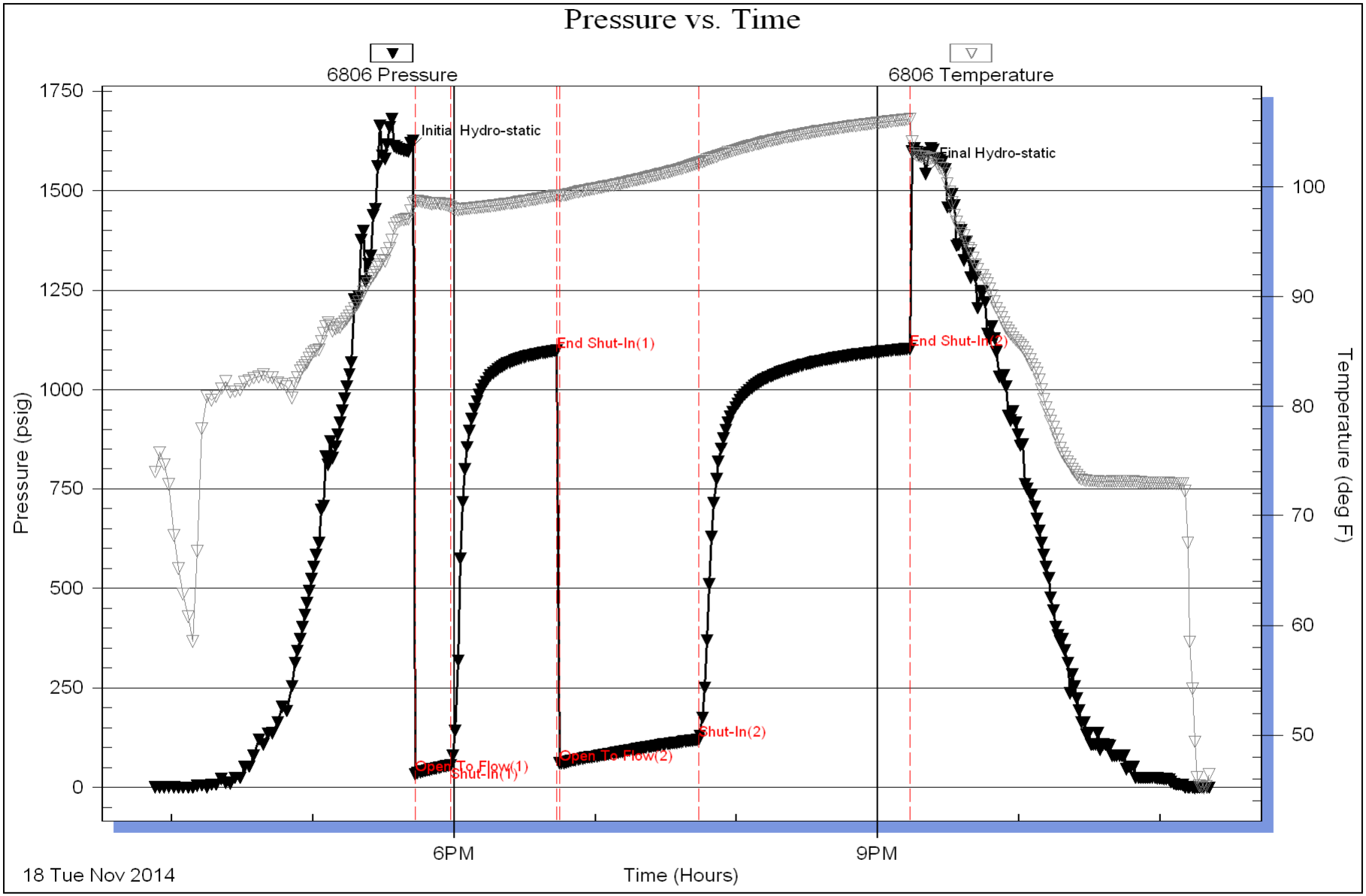
Recovery Information

Recovery Table

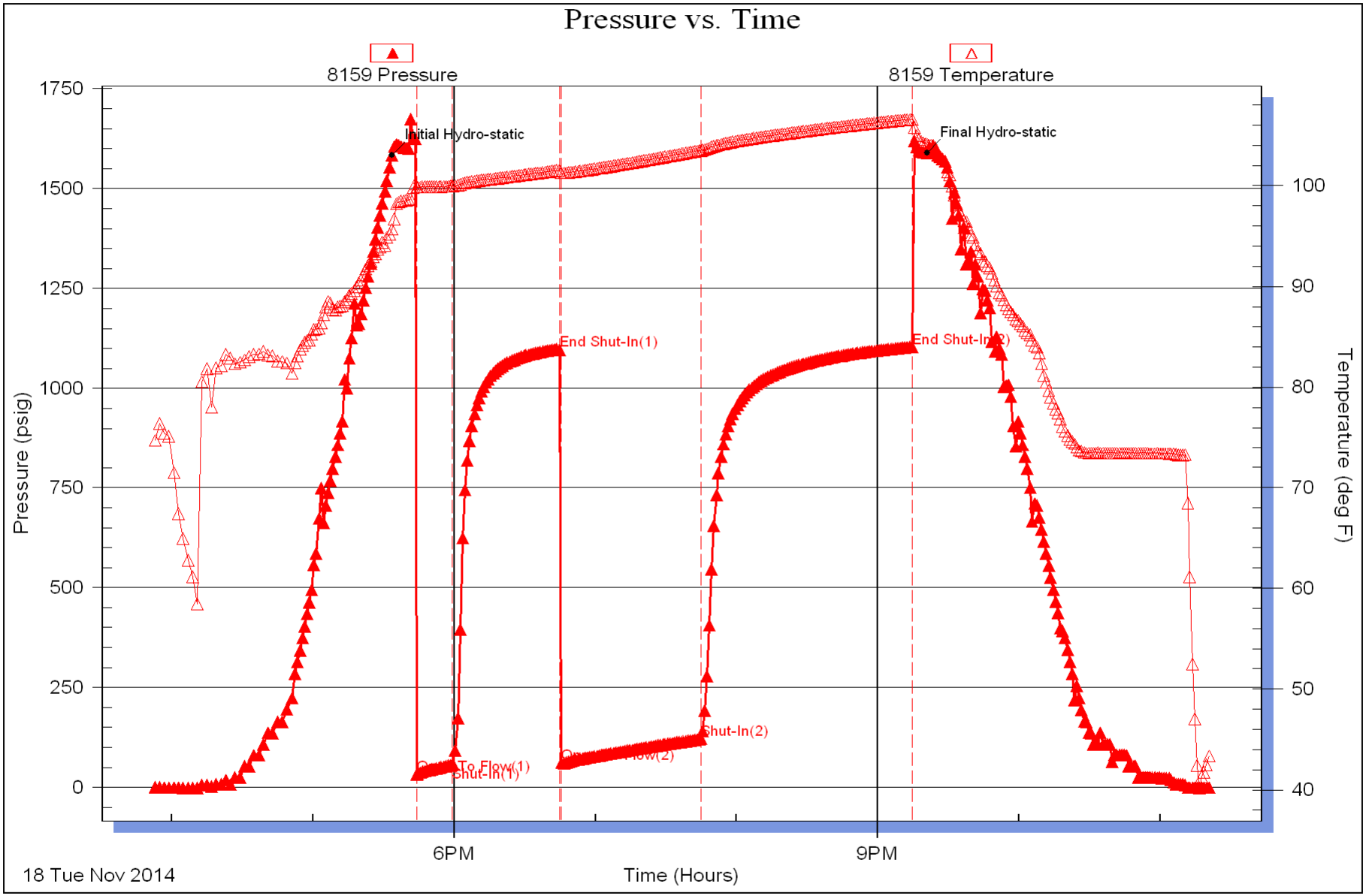
Length ft	Description	Volume bbl
0.00	63 feet gas in pipe	0.000
315.00	100% clean gassy oil	1.699

Total Length: 315.00 ft Total Volume: 1.699 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6806 Pressure
6806 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
1750
1500
1250
1000
750
500
250
0
100
90
80
70
60
50
6PM
9PM
18 Tue Nov 2014
Time (Hours)

Serial #: 8159 **Outside** Shelby Resources, LLC. Wondra-Stoss #1-15 DST Test Number: 4



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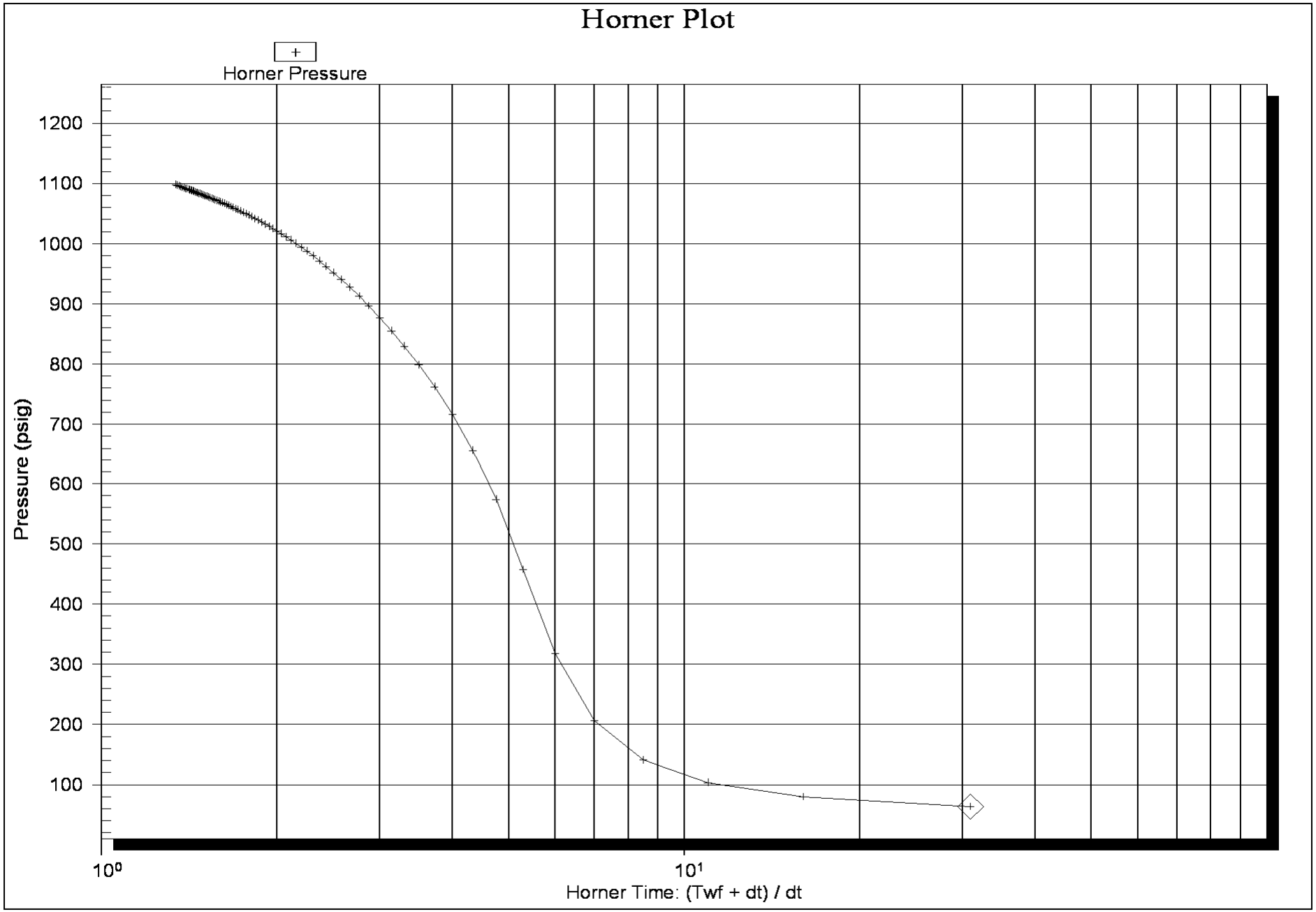
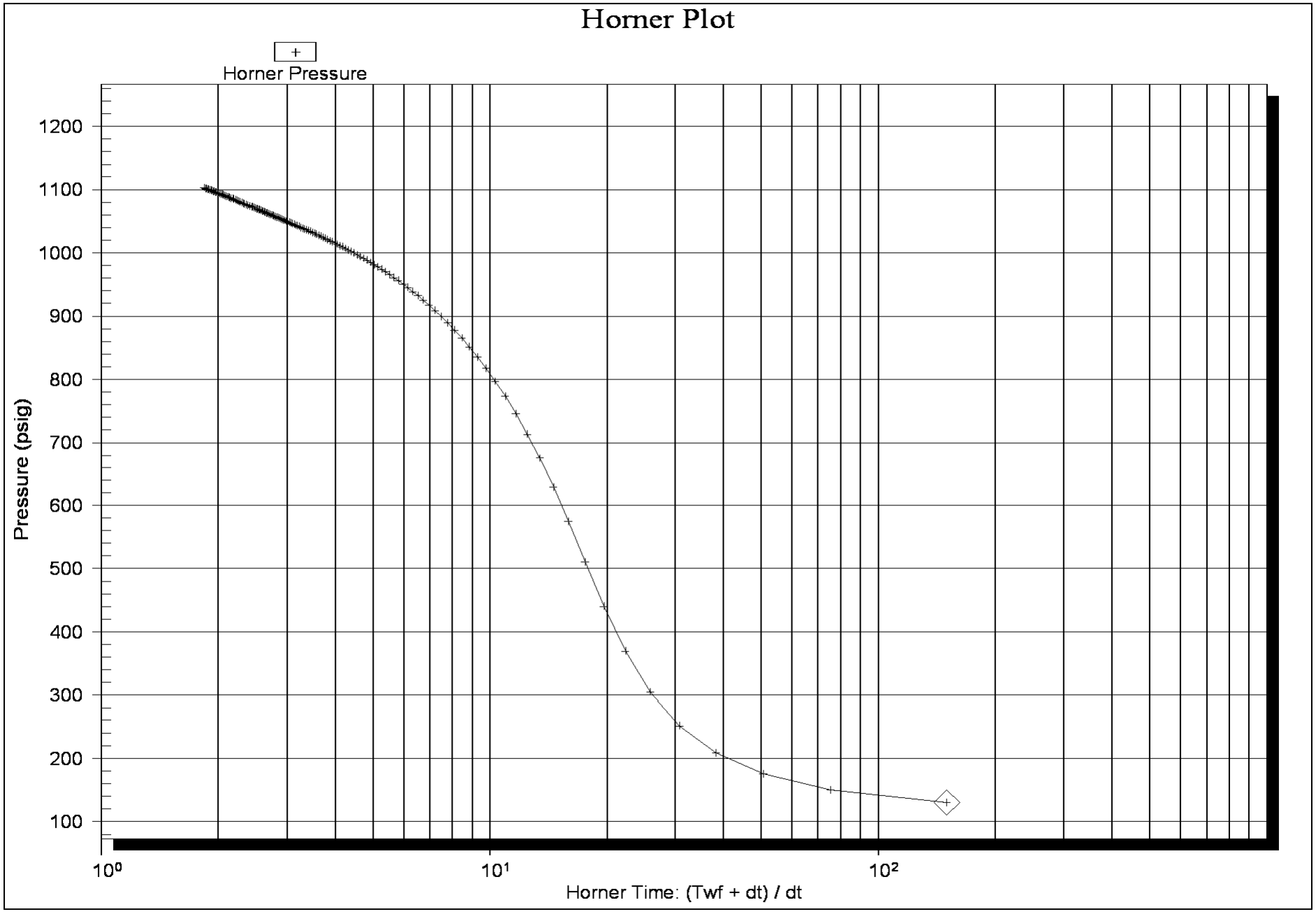
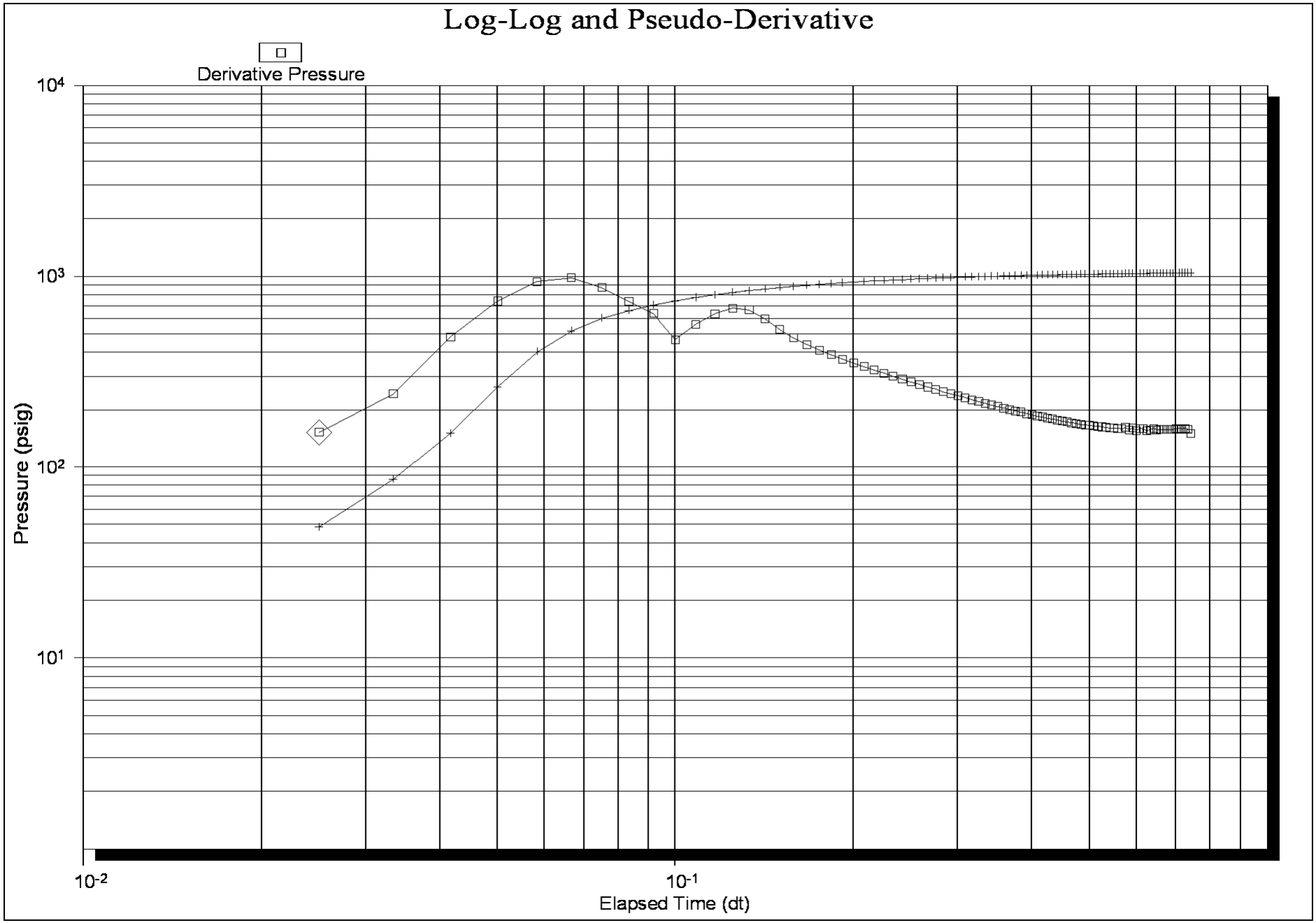
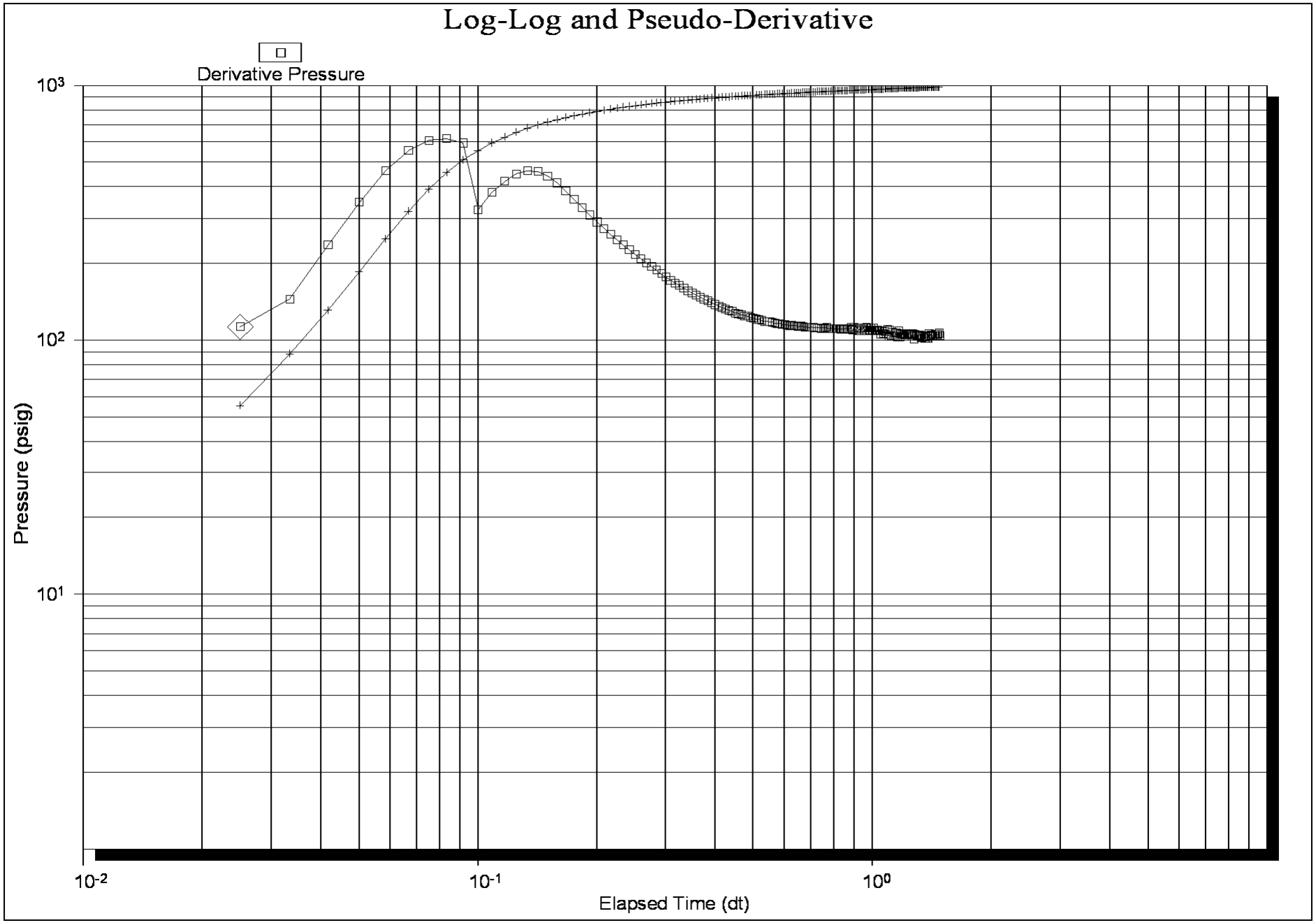


Serial Number: 6806 (Inside) P* : Slope (m) : kpa/log cycle Flow Cycle: 1



Serial Number: 6806 (Inside) P* : Slope (m) : kpa/log cycle Flow Cycle: 2


Log-Log and Pseudo-Derivative
Derivative Pressure
10^4
10^3
10^2
10^1
Pressure (psig)
10^-2
10^-1
Elapsed Time (dt)


Log-Log and Pseudo-Derivative
Derivative Pressure
10³
10²
10¹
Pressure (psig)
10⁻²
10⁻¹
10⁰
Elapsed Time (dt)

DRILL STEM TEST REPORT

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60411 **DST#: 5**

Test Start: 2014.11.19 @ 05:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:20:30
Time Test Ended: 12:30:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3/30/Great Bend

Interval: 3428.00 ft (KB) To 3435.00 ft (KB) (TVD)
Total Depth: 3435.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

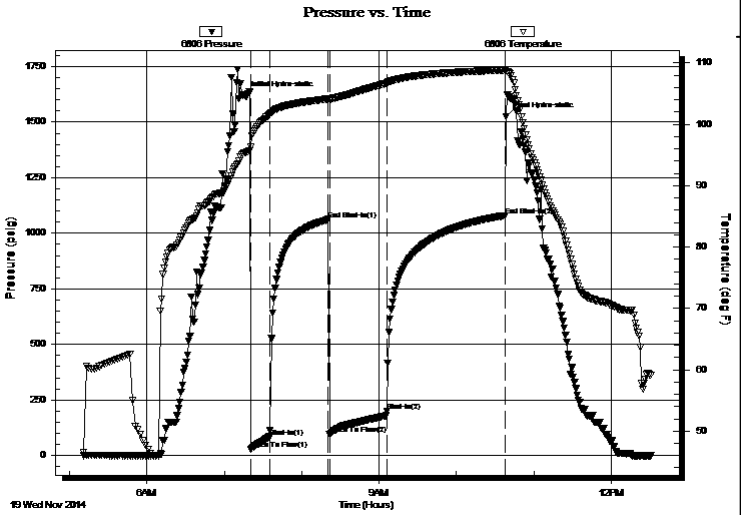
Reference Elevations: 3222.00 ft (KB)
3179.00 ft (CF)
KB to GR/CF: 43.00 ft

Serial #: 6806 **Inside**

Press@RunDepth: 200.03 psig @ 3431.00 ft (KB)
Start Date: 2014.11.19 End Date: 2014.11.19
Start Time: 05:11:00 End Time: 12:30:30

Capacity: 8000.00 psig
Last Calib.: 2014.11.19
Time On Btm: 2014.11.19 @ 07:15:30
Time Off Btm: 2014.11.19 @ 10:38:30

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 10 minutes.
1st Shut In/ 45 Minutes. Weak surface blow back.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 13 minutes.
2nd Shut In/ 90 Minutes. Weak surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1618.87	95.32	Initial Hydro-static
5	27.53	96.27	Open To Flow (1)
20	84.61	101.58	Shut-In(1)
65	1061.89	104.14	End Shut-In(1)
66	94.96	104.02	Open To Flow (2)
111	200.03	106.71	Shut-In(2)
202	1079.65	108.83	End Shut-In(2)
203	1524.43	108.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
472.00	100% Clean Oil	3.90
63.00	Muddy cut oil	0.88
0.00	20% mud, 80% oil	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60411 **DST#: 5**

Test Start: 2014.11.19 @ 05:10:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	41 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4400.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

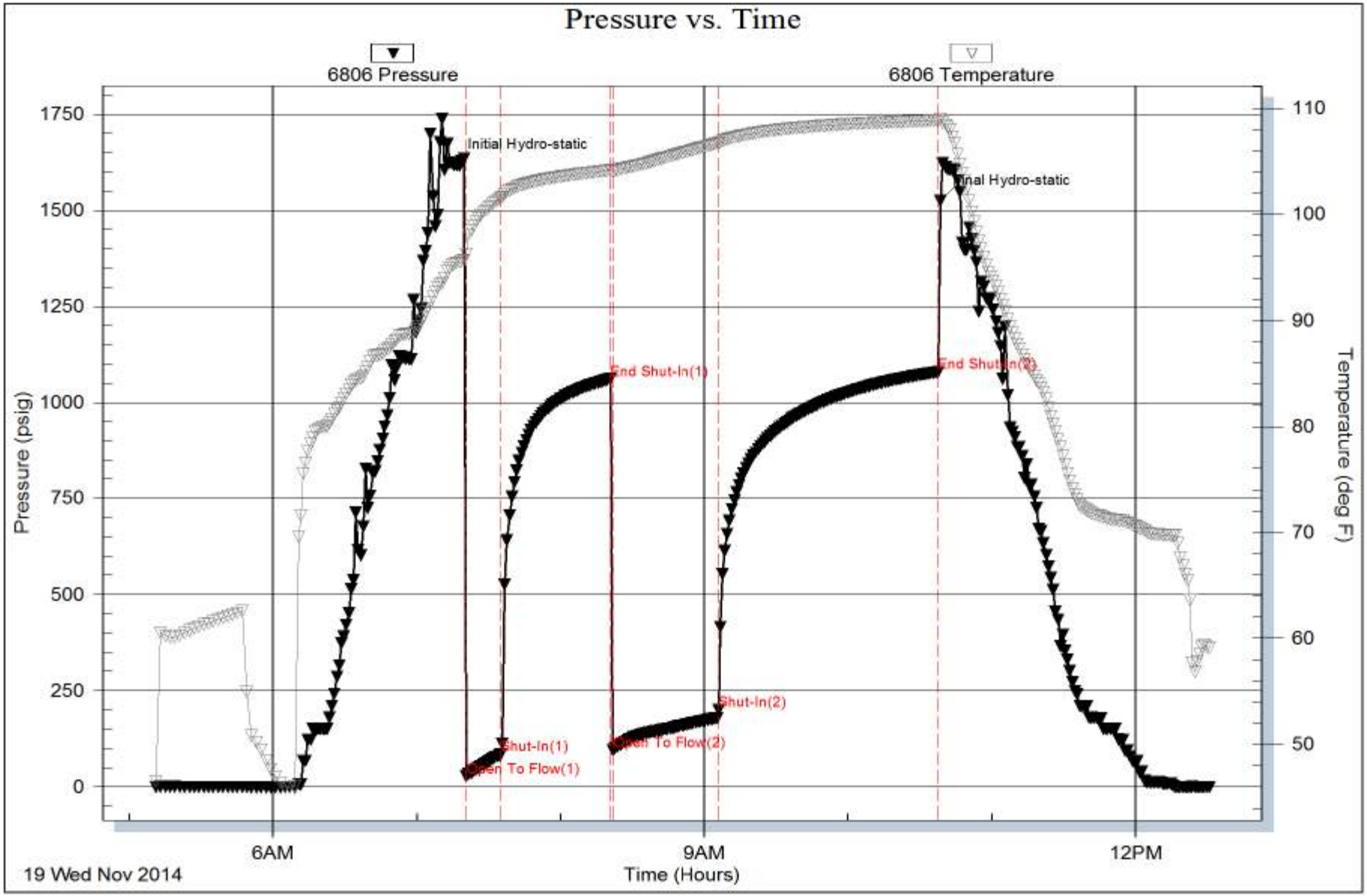
Recovery Table

Length ft	Description	Volume bbl
472.00	100% Clean Oil	3.902
63.00	Muddy cut oil	0.884
0.00	20% mud, 80% oil	0.000

Total Length: 535.00 ft Total Volume: 4.786 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6806 **Inside** Shelby Resources, LLC. Wondra-Stoss #1-15 DST Test Number: 5



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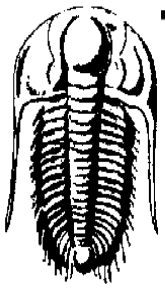


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Shelby Resources, LLC.**

2717 Canal BLVD
Suite C
Hays Ks, 67601

ATTN: Jeremy Schwartz

Wondra-Stoss #1-15

15/18s/14w/Barton

Start Date: 2014.11.19 @ 21:10:00
End Date: 2014.11.20 @ 05:54:30
Job Ticket #: 60412 DST #: 6

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.20 @ 07:08:56

DRILL STEM TEST REPORT

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60412 **DST#: 6**

Test Start: 2014.11.19 @ 21:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:19:30
Time Test Ended: 05:54:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3/30/Great Bend

Interval: 3435.00 ft (KB) To 3444.00 ft (KB) (TVD)
Total Depth: 3444.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

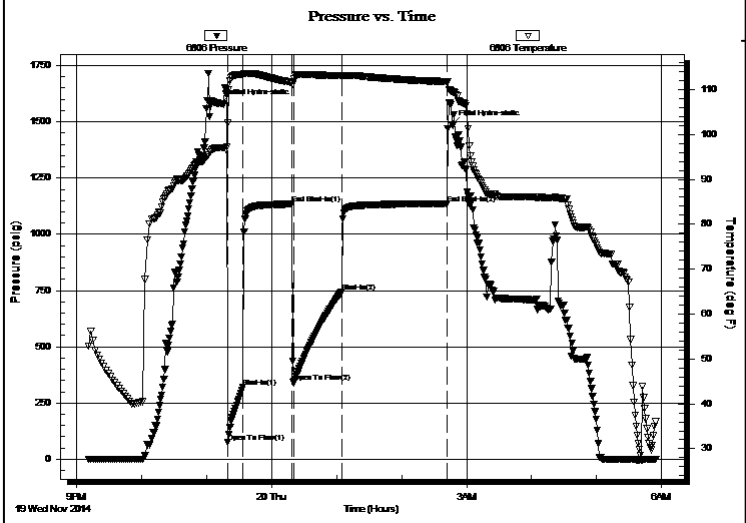
Reference Elevations: 1937.00 ft (KB)
1924.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6806 **Inside**

Press@RunDepth: 743.09 psig @ 3440.00 ft (KB)
Start Date: 2014.11.19 End Date: 2014.11.20
Start Time: 21:10:00 End Time: 05:54:30

Capacity: 8000.00 psig
Last Calib.: 2014.11.20
Time On Btm: 2014.11.19 @ 23:12:30
Time Off Btm: 2014.11.20 @ 02:46:30

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes and 15 seconds.
1st Shut In/ 45 Minutes. Weak surface blow back.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes and 20 seconds.
2nd Shut In/ 90 Minutes. 2 inch blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1580.77	97.07	Initial Hydro-static
7	76.02	102.50	Open To Flow (1)
21	319.38	113.36	Shut-In(1)
67	1134.53	111.57	End Shut-In(1)
68	340.59	111.83	Open To Flow (2)
112	743.09	113.04	Shut-In(2)
209	1136.26	111.76	End Shut-In(2)
214	1487.01	109.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	189 feet gas in pipe.	0.00
30.00	100% Clean Oil	0.00
63.00	Mud, Oil, cut Water	0.00
0.00	20% mud, 30% Oil, 50% water	0.00
1607.00	Reversed out of pipe	19.66
0.00	resist recov, .22 at 40 degrees	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60412 **DST#: 6**

Test Start: 2014.11.19 @ 21:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:19:30
Time Test Ended: 05:54:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3/30/Great Bend

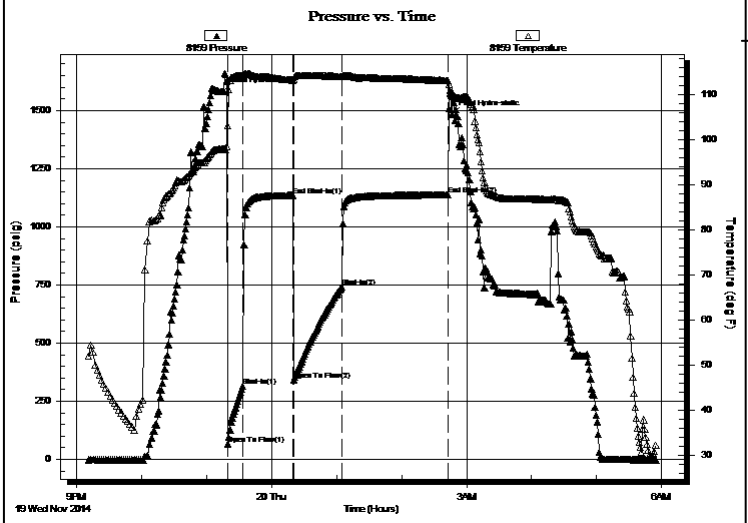
Interval: 3435.00 ft (KB) To 3444.00 ft (KB) (TVD)
Total Depth: 3444.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1937.00 ft (KB)
1924.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8159 **Outside**
Press@RunDepth: 1137.18 psig @ 3441.00 ft (KB)
Start Date: 2014.11.19 End Date: 2014.11.20
Start Time: 21:10:00 End Time: 05:54:30

Capacity: 8000.00 psig
Last Calib.: 2014.11.20
Time On Btm: 2014.11.19 @ 23:14:30
Time Off Btm: 2014.11.20 @ 02:47:00

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes and 15 seconds.
1st Shut In/ 45 Minutes. Weak surface blow back.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes and 20 seconds.
2nd Shut In/ 90 Minutes. 2 inch blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1580.81	97.95	Initial Hydro-static
5	66.57	103.09	Open To Flow (1)
19	314.64	114.23	Shut-In(1)
65	1135.39	113.19	End Shut-In(1)
66	342.32	113.41	Open To Flow (2)
110	740.77	113.98	Shut-In(2)
208	1137.18	113.13	End Shut-In(2)
213	1482.64	109.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	189 feet gas in pipe.	0.00
30.00	100% Clean Oil	0.00
63.00	Mud, Oil, cut Water	0.00
0.00	20% mud, 30% Oil, 50% water	0.00
1607.00	Reversed out of pipe	19.66
0.00	resist recov, .22 at 40 degrees	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60412 **DST#: 6**

Test Start: 2014.11.19 @ 21:10:00

Tool Information

Drill Pipe:	Length:	3123.00 ft	Diameter:	3.80	inches	Volume:	43.81	bbl	
Heavy Wt. Pipe:	Length:	298.51 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25	inches	Volume:	0.00	bbl	
						Total Volume:	43.81	bbl	

Drill Pipe Above KB:	9.51 ft
Depth to Top Packer:	3435.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	9.00 ft
Tool Length:	32.00 ft
Number of Packers:	1
Diameter:	6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		78000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	68000.00 lb
	Final	71000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3417.00		
Hydraulic tool	5.00			3422.00		
Jars	6.00			3428.00		
Safety Joint	2.00			3430.00		
Packer	5.00			3435.00	23.00	Bottom Of Top Packer
Anchor	4.00			3439.00		
Recorder	1.00	6806	Inside	3440.00		
Recorder	1.00	8159	Outside	3441.00		
Bull Plug	3.00			3444.00	9.00	Anchor Tool
Total Tool Length:	**32.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601

ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60412 **DST#: 6**

Test Start: 2014.11.19 @ 21:10:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	41 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	33000 ppm
Viscosity:	68.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.00 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4600.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	189 feet gas in pipe.	0.000
30.00	100% Clean Oil	0.000
63.00	Mud, Oil, cut Water	0.000
0.00	20% mud, 30% Oil, 50% water	0.000
1607.00	Reversed out of pipe	19.659
0.00	resist recov, .22 at 40 degrees	0.000

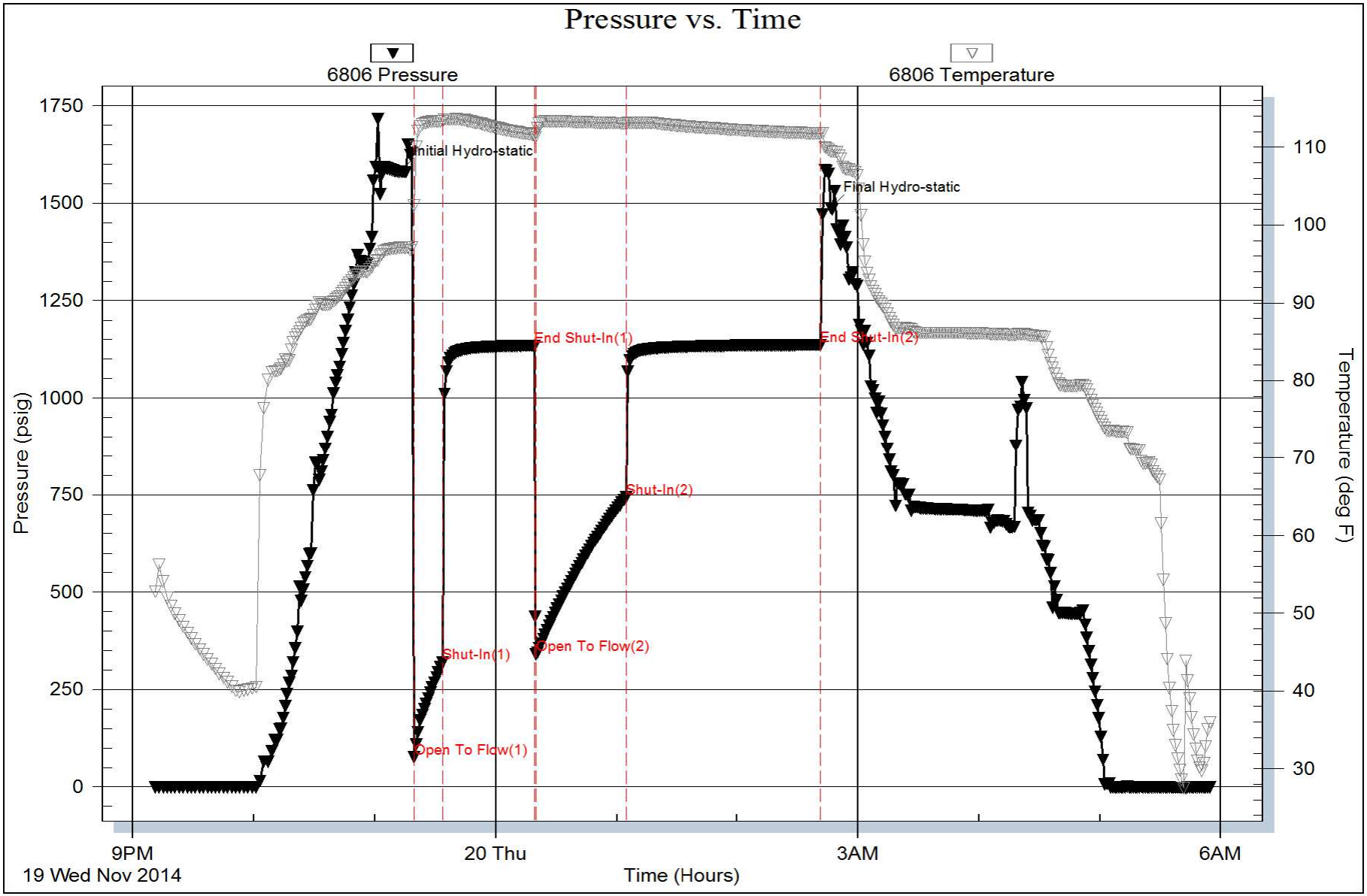
Total Length: 1700.00 ft Total Volume: 19.659 bbl

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

Laboratory Name: Laboratory Location:

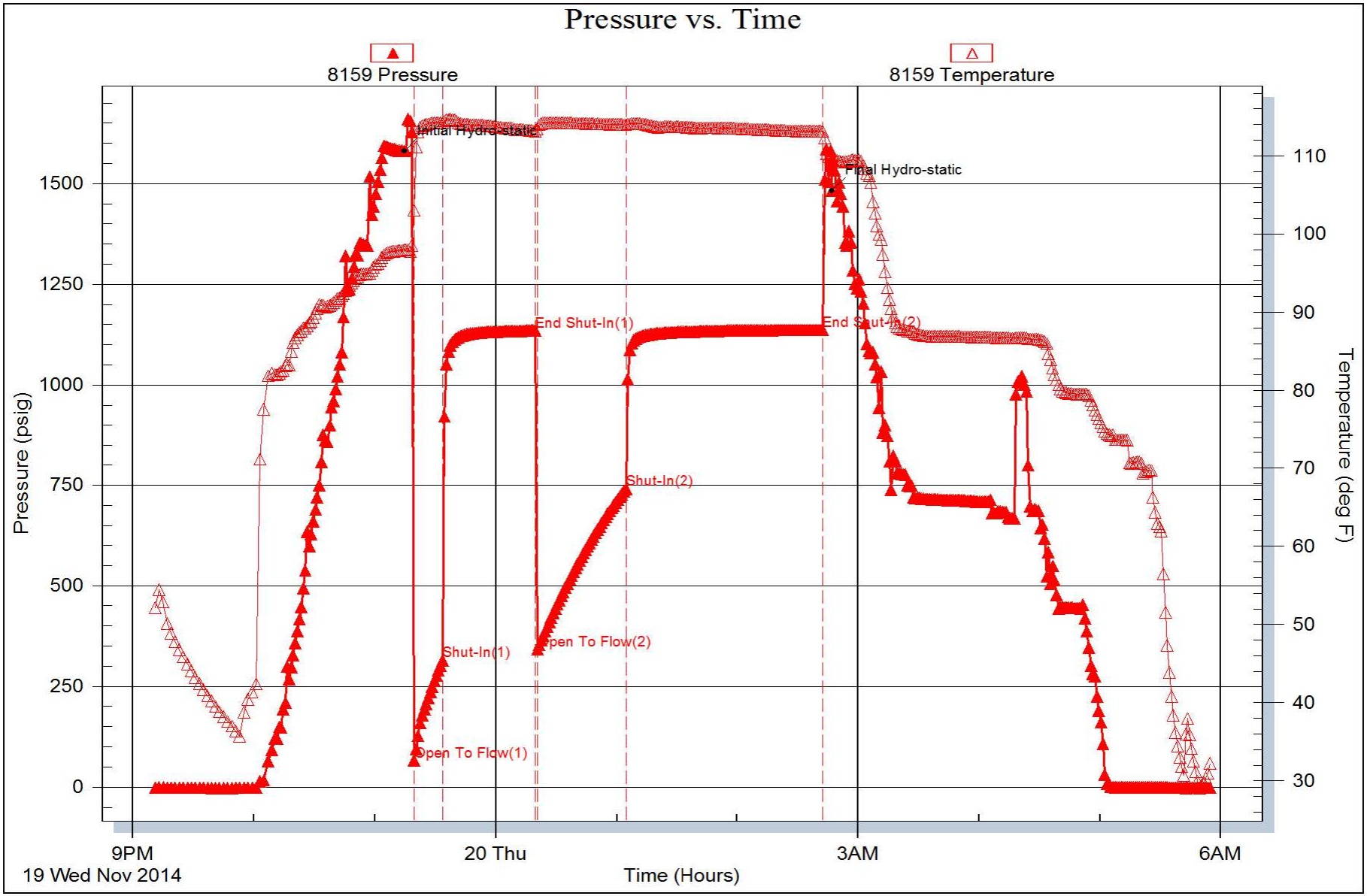
Recovery Comments:

Serial #: 6806 **Inside** Shelby Resources, LLC. Wondra-Stoss #1-15 DST Test Number: 6



Trilobite Testing, Inc Ref. No: 60412 Printed: 2014.11.20 @ 07:08:57

Serial #: 8159 **Outside** Shelby Resources, LLC. Wondra-Stoss #1-15 DST Test Number: 6



Trilobite Testing, Inc Ref. No: 60412 Printed: 2014.11.20 @ 07:08:57

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. 723

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-14-14	15	18	14	Barton	KS		4:45 AM

Location Boyd S to Curve 1W 1/2N E into

Lease Wondra Stoss Well No. 1-15

Contractor Sterling

Type Job Surface

Hole Size 12 1/4 T.D. 905

Csg. 8 5/8 Depth 905

Tbg. Size Depth

Tool Depth

Cement Left in Csg. Shoe Joint 32.69

Meas Line Displace 55 1/2 bbl

EQUIPMENT

Pumptrk 5 No. Cementer Helper David

Bulktrk 13 No. Driver Driver Chad

Bulktrk PU No. Driver Driver Brett

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Cement Circulated!!

X Signature Alan Loftis

Owner

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.

Charge To Shelby - Resources

Street

City State

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

Cement Amount Ordered 375 60/40 3% cc 2% Gel

Common 225

Poz. Mix 150

Gel. 8

Calcium 15

Hulls

Salt

Flowseal

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling 398

Mileage

8 5/8 **FLOAT EQUIPMENT**

Guide Shoe -1

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Rubber Plug 1

Baffle Plate-1

Pumptrk Charge Long Surface

Mileage 14

Tax

Discount

Total Charge

BASIC energy services, L.P.

TREATMENT REPORT

Customer: Shelby Resources LLC	Lease No.	Date: 11-21-14	
Lease: Wondra - Strauss Unit	Well #: 1-15		
Field Order #: 11686	Station: Pratt	Casing: 5 1/2	Depth: 3499.73
County: Barton	State: KS		
Type Job: CNW 5 1/2 Long String	Formation	Legal Description: 15-18S-14W	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 5 1/2	Tubing Size	Shots/Ft		Acid: CMP 150 AA-2	RATE: Shelby Blend	PRESS	ISIP
Depth: 3499.73	Depth	From	To	Pre Pad: 700 60/40	Max: Poz 2% gel		5 Min.
Volume: 85.4	Volume	From	To	Pad	Min		10 Min.
Max Press: 1500	Max Press	From	To	Frac	Avg		15 Min.
Well Connection: ?	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth: 3479.17	Packer Depth	From	To	Flush: 84.9	Gas Volume		Total Load

Customer Representative: Chris Guttschalk | Station Manager: Kevin Goudley | Treater: Mike Mattal

Service Units	37586		37686	19905		70959	19918				
Driver Names	Mattal		Mcgraw			COBB					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:05 PM					On location / Safety Meeting
5:45					Run 5 1/2 14# csng, Basket on #1
—					Turbos on 1, 3, 5, 7, 9
7:45					Casing on Bottom
7:55					Hook to csng. / Break circ. w. Rig
8:43	350		5	5	Pump 5 Bbl water
8:44	350		11	5	Mix 50 sks Swage
8:47	400		36	5.5	Mix 150 sks AA-2 cmt
8:53	—		4	3	Wash pump + lines, release Plug
8:58	200		—	6.5	Start Displacement
9:07	300		55	6	Lift Pressure
9:10	600		74	3	Slow rate
9:14	1500		84.9	—	Plug Down, released + held
9:25	—		7.5		Plug rat + Mouse hole
					Circulation Thru Job
					Job complete
					Thank You!
					Mike Mattal
					Mike + Cole

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

Taylor Printing, Inc. 620-672-3656

Scale 1:240 Imperial

Well Name:	Wondra Stoss Unit #1-15		
Surface Location:	2444'FSL, 1811'FWL, Sec. 15-18S-14W		
Bottom Location:			
API:	15-009-26041-0000		
License Number:			
Spud Date:	11/13/2014	Time:	8:15 AM
Region:	Barton County		
Drilling Completed:	11/20/2014	Time:	12:05 PM
Surface Coordinates:			
Bottom Hole Coordinates:			
Ground Elevation:	1924.00ft		
K.B. Elevation:	1937.00ft		
Logged Interval:	3000.00ft	To:	3500.00ft
Total Depth:	3530.00ft		
Formation:	Arbuckle		
Drilling Fluid Type:	Chemical/Fresh Water Gel		

OPERATOR

Company:	Shelby Resources, LLC		
Address:	445 Union Blvd, Suite 208 Lakewood, CO 80228		
Contact Geologist:	Janine Sturdavant		
Contact Phone Nbr:	303-907-2209 / 720-274-4682		
Well Name:	Wondra Stoss Unit #1-15		
Location:	2444'FSL, 1811'FWL, Sec. 15-18S-14W	API:	15-009-26041-0000
Pool:		Field:	Laud West
State:	Kansas	Country:	USA

LOGGED BY

Company:	Shelby Resources, LLC		
Address:	445 UNION BLVD. Suite 208 LAKEWOOD, CO. 80228		
Phone Nbr:	203-671-6034		
Logged By:	Geologist	Name:	Jeremy Schwartz

NOTES

The Shelby Resources, LLC Wondra Stoss Unit #1-15 was drilled to a total depth of 3530', bottoming in the Arbuckle. A TookeDaq gas detector was employed in the drilling of said well.

Six DST's were conducted throughout the Lansing-Kansas City and Arbuckle Zones. The DST Reports can be found at the bottom of this log.

Due to DST Results, sample shows, gas kicks, and log analysis it was determined by all parties involved to furthur test the well through production casing. The dry samples were saved and will be available for furthur review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

Respectfully Submitted,
Jeremy Schwartz
Geologist

CONTRACTOR

Contractor:	Sterling Drilling Co
Rig #:	5
Rig Type:	mud rotary

Spud Date:	11/13/2014	Time:	8:15 AM
TD Date:	11/20/2014	Time:	12:05 PM
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation:	1937.00ft	Ground Elevation:	1924.00ft
K.B. to Ground:	13.00ft		

DATE	DEPTH	ACTIVITY
Saturday, November 15, 2014	3100'	Geologist Jeremy Schwartz on location @ 2330hrs, ~3100', DRLG ahead through Heebner
Sunday, November 16, 2014	3115'	DRLG ahead through Douglas Shale, Brown Lime, CFS @ 3180, Conduct Bit Trip,
	3180'	DRLG ahead through Lansing, CFS @ 3222', Conduct DST #1 in the Lansing "A-B",
	3222'	Successful Test, Resume DRLG ahead through Lansing "G",
Monday, November 17, 2014	3250'	DRLG ahead through Muncie Creek, Lansing "H", CFS @ 3330', Conduct DST #2 in the
	3330'	Lansing "H", Successful Test, Resume DRLG ahead through Lansing, CFS @ 3405',
	3405'	Conduct DST #3 in the Lansing "I-K",
Tuesday, November 18, 2014	3405'	Successful Test, Resume DRLG, CFS @ 3420', Resume DRLG, CFS @ 3428',
	3428'	Conduct DST #4 in the Arbuckle,
Wednesday, November 19, 2014	3428'	Successful Test, DRLG ahead, CFS @ 3435', Conduct DST #5 in the Arbuckle,
	3435'	Successful Test, DRLG ahead, CFS @ 3444', Conduct DST #6 in the Arbuckle,
Thursday, November 20, 2014	3444'	Successful Test, DRLG ahead to TD, TD of 3530' reached @ 1205hrs, Conduct Logging
	3530'	Operations, Logging Operations complete @ 2030hrs,
	3530'	Geologist Jeremy Schwartz off location @ 2200hrs

CLIENT:	SHELBY RESOURCES, LLC
WELL NAME:	WONDRA STOSS UNIT #1 -15
LEGAL:	NE NW NE SW 15-18S-14W
COUNTY:	BARTON
API :	15-009-26041-0000
DRLG CONTRACTOR:	STERLING DRILLING CO.
RIG #:	5
DOGHOUSE #:	620-388-5433
TOOLPUSHER:	ALAN LOFTIS
CELL #:	620-388-2736

	WONDRA STOSS UNIT #1 -15				SHELBY RESOURCES, LLC W-S #1-15						L.D. DRILLING F-B #1-21						PHILLIPS PETROLEUM CO. KEENER "A" OWWO #1					
	SW SE NW SW 15-18S-14W										SW NE NE NE 21-18S-14W						E/2 NE NW 15-18S-14W					
	KB	1937			KB	1942					KB	1931					KB	1931				
	LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.	
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.		CORR.		DEPTH	DATUM	CORR.		CORR.		DEPTH	DATUM	CORR.		CORR.	
ANHYDRITE TOP	874	1063	877	1060	886	1056	+	7	+	4	884	1047	+	16	+	13						
BASE	898	1039	904	1033	912	1030	+	9	+	3	908	1023	+	16	+	10						
TOPEKA	2888	-951	2893	-956	2900	-958	+	7	+	2	2902	-971	+	20	+	15	2876	-945	-	6	-	11
HEEBNER SHALE	3104	-1167	3104	-1167	3115	-1173	+	6	+	6	3116	-1185	+	18	+	18	3097	-1166	-	1	-	1
TORONTO	3112	-1175	3113	-1176	3123	-1181	+	6	+	5	3126	-1195	+	20	+	19	3108	-1177	+	2	+	1
DOUGLAS SHALE	3124	-1187	3125	-1188	3135	-1193	+	6	+	5	3139	-1208	+	21	+	20	3122	-1191	+	4	+	3
BROWN LIME	3177	-1240	3177	-1240	3188	-1246	+	6	+	6	3191	-1260	+	20	+	20	3175	-1244	+	4	+	4
LKC	3186	-1249	3185	-1248	3196	-1254	+	5	+	6	3202	-1271	+	22	+	23	3184	-1253	+	4	+	5
LKC G	3254	-1317	3256	-1319	3267	-1325	+	8	+	6	3271	-1340	+	23	+	21	3252	-1321	+	4	+	2
MUNCIE CREEK	3318	-1381	3316	-1379	3328	-1386	+	5	+	7	3328	-1397	+	16	+	18	3313	-1382	+	1	+	3
LKC H	3322	-1385	3320	-1383	3331	-1389	+	4	+	6	3331	-1400	+	15	+	17	3318	-1387	+	2	+	4
LKC J	3354	-1417	3358	-1421	3363	-1421	+	4	+	0	3363	-1432	+	15	+	11	3348	-1417	+	0	-	4
STARK SHALE	3371	-1434	3374	-1437	3382	-1440	+	6	+	3	3378	-1447	+	13	+	10	3365	-1434	+	0	-	3
BKC	3394	-1457	3396	-1459	3404	-1462	+	5	+	3	3405	-1474	+	17	+	15	3389	-1458	+	1	-	1
CONGLOMERATE	3410	-1473	3406	-1469	3420	-1478	+	5	+	9	3409	-1478	+	5	+	9	3402	-1471	-	2	+	2
ARBUCKLE	3420	-1483	3421	-1484	3439	-1497	+	14	+	13	3444	-1513	+	30	+	29	3417	-1486	+	3	+	2
RTD			3530	-1593	3507	-1565			-	28	3552	-1621			+	28	3424	-1493			-	100
LTD	3531	-1594			3507	-1565	-	29									3430	-1499	-	95		
					TESTED						TESTED						TESTED					

PROGNOSIS		
ANHYDRITE TOP	885	1052
HEEBNER SHALE	3100	-1163
LANSING	3180	-1243
LANSING H	3316	-1379
ARBUCKLE	3425	-1488
RTD	3500	-1563

DST #1 (3315-3340) Lansing "H"
15-45-45-90
Strong Blow BOB 1MIN
BB BOB, GTS throughout
Strong Blow BOB 1MIN, GTS 1MIN
2844' CO, 120' OCM (50%O/50%M)
SIP: 1066-1064

DST #2 (3347-3420) Lansing "I-K"
10-45-10
Very Weak Surface
No BB
Blow Died, flush tool, pull test
1' OCM (95%M/5%O)

DST #3 (3404-3451) Arbuckle
15-45-45-60
Weak Blow Built to 4IN

DST #1 (3210 - 3258) LKC A-D
TIMES: 30-30-30-30
BLOW: 1ST OPEN WEAK - DEAD 12MIN
2ND OPEN NO BLOW
15' OIL SPECKLED DRILLING MUD
ISIP: 887, FSIP: 648

DST #2 (3252 - 3275) LKC D-G
TIMES: 30-30-30-30
BLOW: 1ST OPEN WEAK
2ND OPEN VERY WEAK
200' SLMCW (5%M, 95%W)
ISIP: 953, FSIP: 947

DST #3 (3322 - 3404) LKC H-L
TIMES: 30-45-45-60
BLOW: 1ST OPEN STRONG, BOB 1MIN,
GTS 25MIN

DST #1 (3175-3242)
70' SP GSY M
BHP 183-174#/30"
FP 64-82#

DST #2 (3300-3341)
15'M
BHP 59-59#/30"
FP 55-55#

DST #3 (3396-3420)
190' O & GCM, 300'MO
BHP 631-512#/30"
FP 55-238

No BB Weak Blow Built to 10IN No BB **330' MW**	2ND OPEN STRONG, BOB 1MIN, GTS THROUGHOUT **1300' GO (25%G, 75%O)** ISIP: 673, FSIP: 651 **DST #4 (3400 - 3450) ARBUCKLE** TIMES: 30-45-45-60 BLOW: 1ST OPEN STRONG, BOB 1MIN 2ND OPEN STRONG, BOB 2MIN **2400' GO, 10%G, 90%O** ISIP: 1077, FSIP: 1068	

ROCK TYPES

Congl
Dolprim
Lmst fw<7
shale, gry
Carbon Sh
shale, red

ACCESSORIES

MINERAL
P Pyrite

FOSSIL
◠ Bioclastic or Fragmental
F Fossils < 20%

STRINGER
Chert
Limestone
Shale
red shale

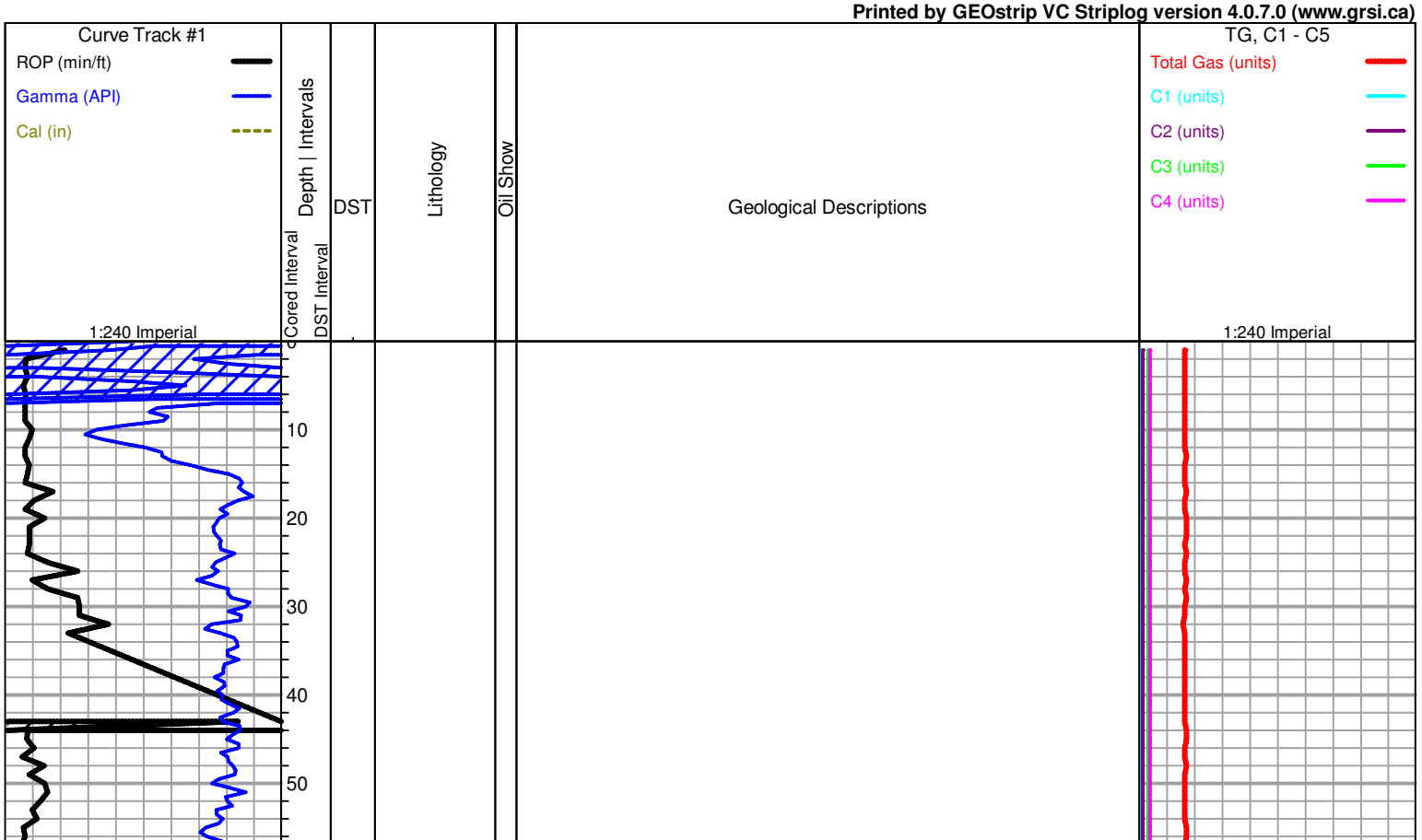
TEXTURE
C Chalky

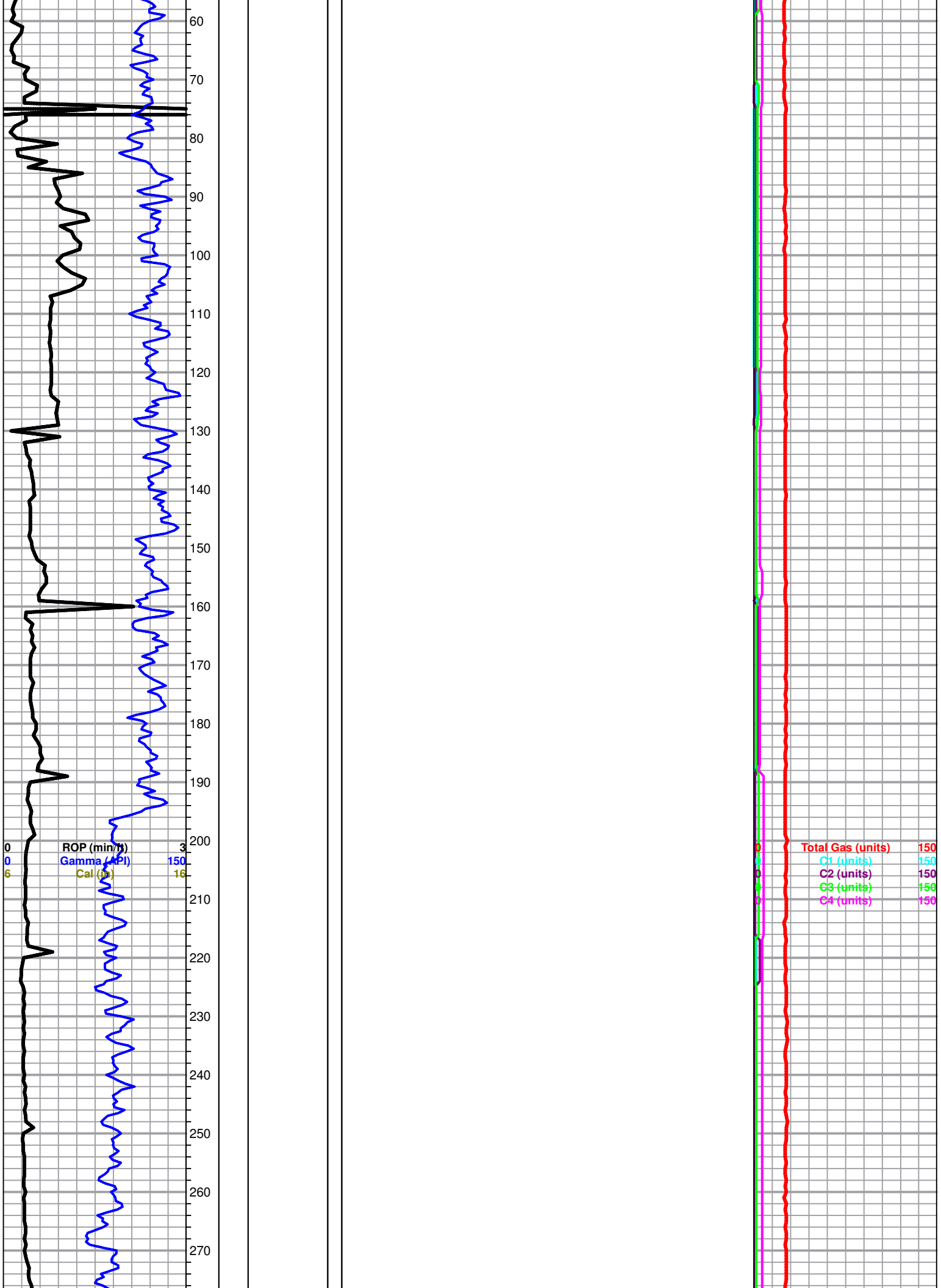
OTHER SYMBOLS

MISC
Daily Report
Digital Photo
Document
Folder
Link
Vertical Log File
Horizontal Log File
Core Log File
Drill Cuttings Rpt

DST
DST Int
DST alt

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

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250
260
270
0
ROP (min/ft)
3
0
Gamma (API)
150
6
Cal (in)
16
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Total Gas (units)
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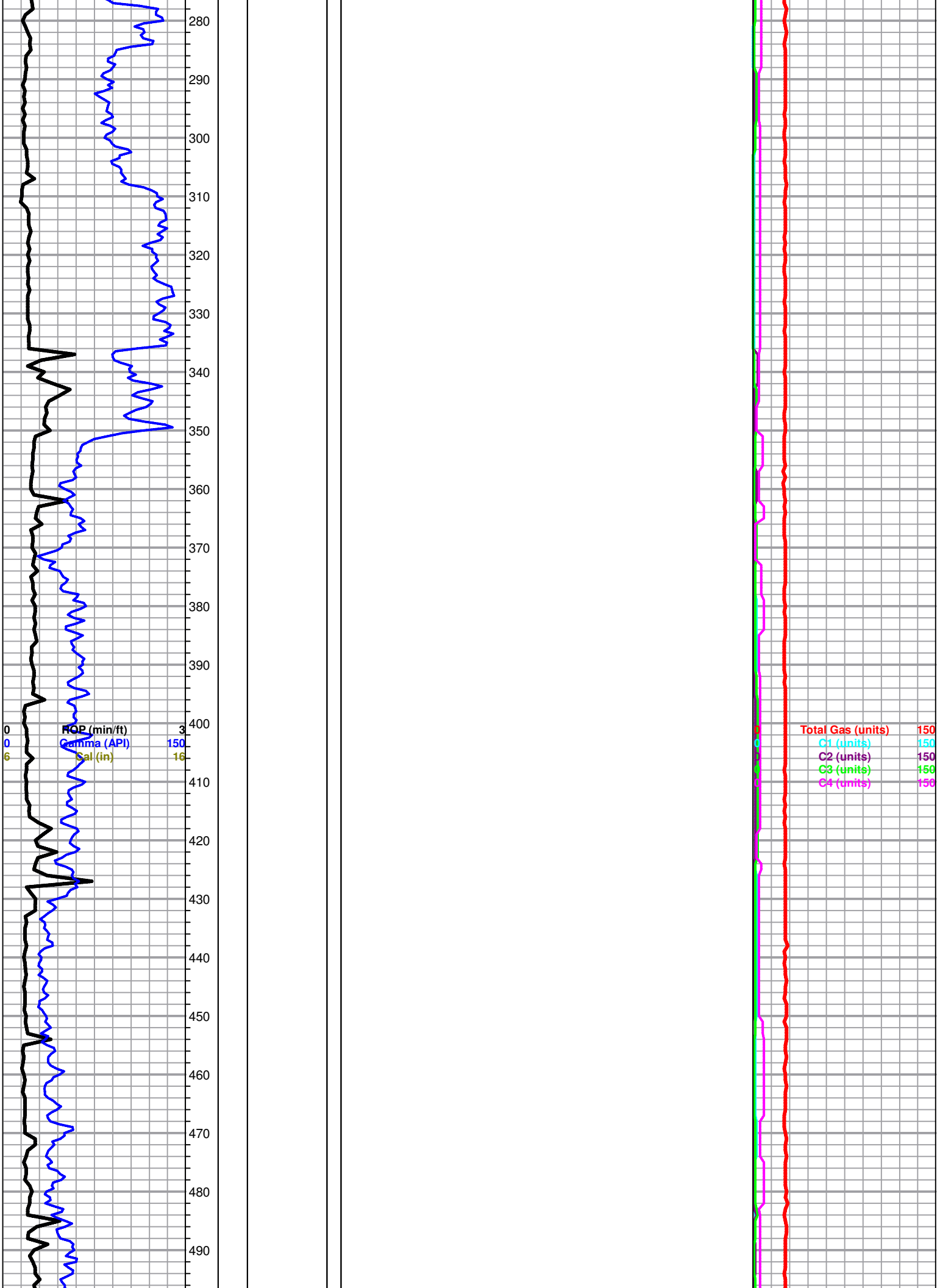
C1 (units)
150
C2 (units)
150
C3 (units)
150
C4 (units)
150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360
370
380
390
400
410
420
430
440
450
460
470
480
490
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0
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C4 (units)
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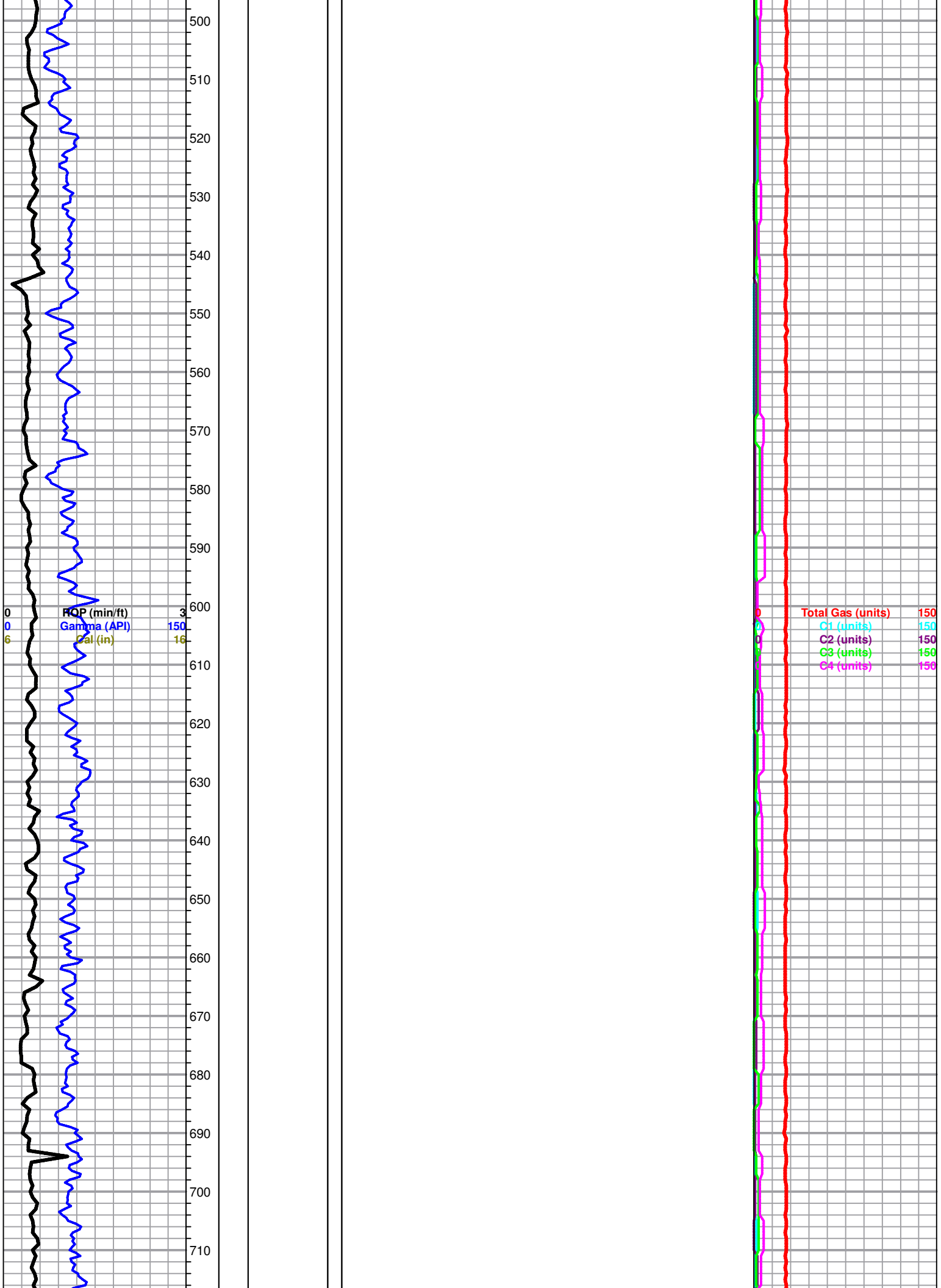
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C4 (units)
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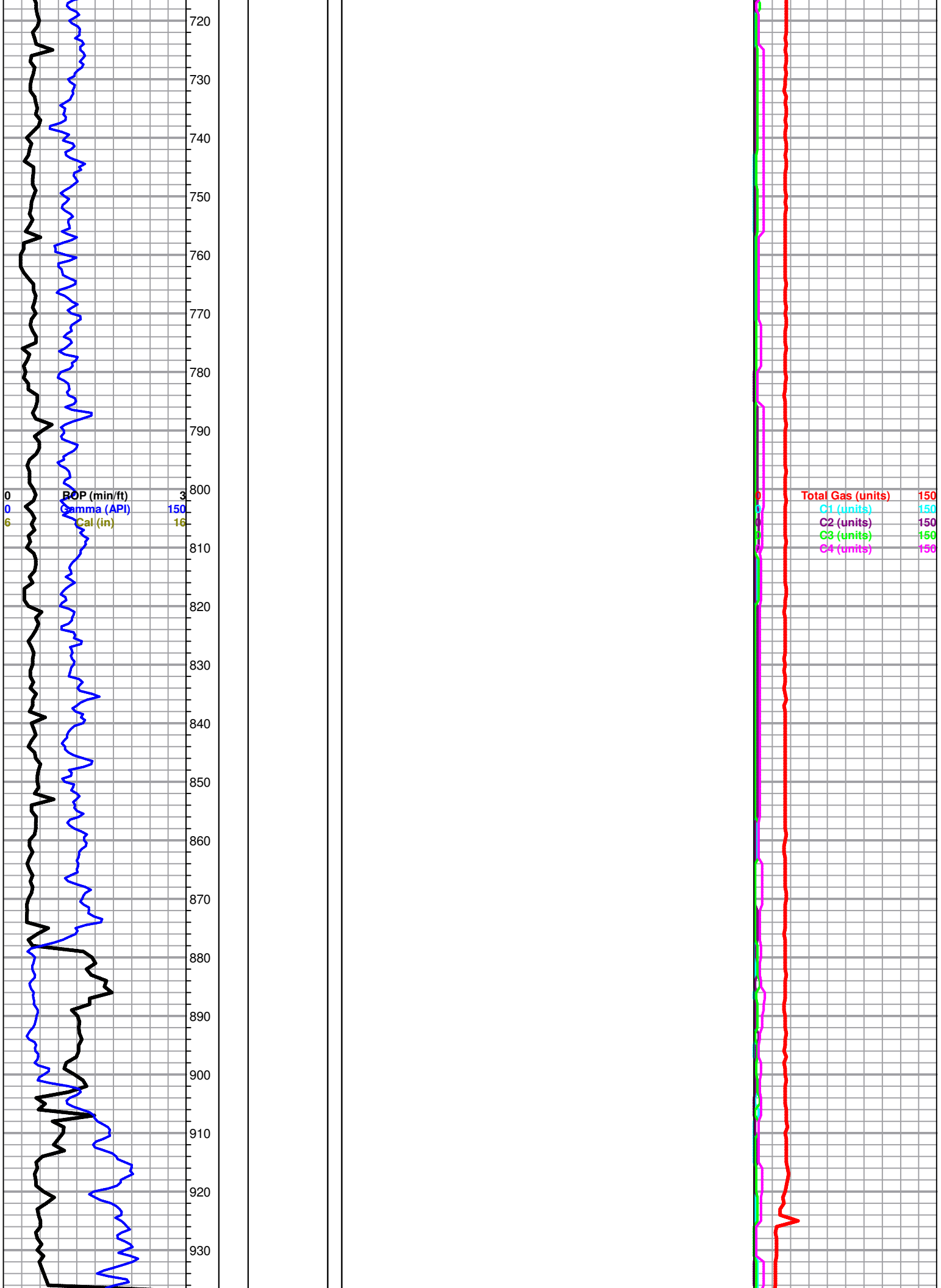
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ROP (min/ft)
3
0
Gamma (API)
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6
Cal (in)
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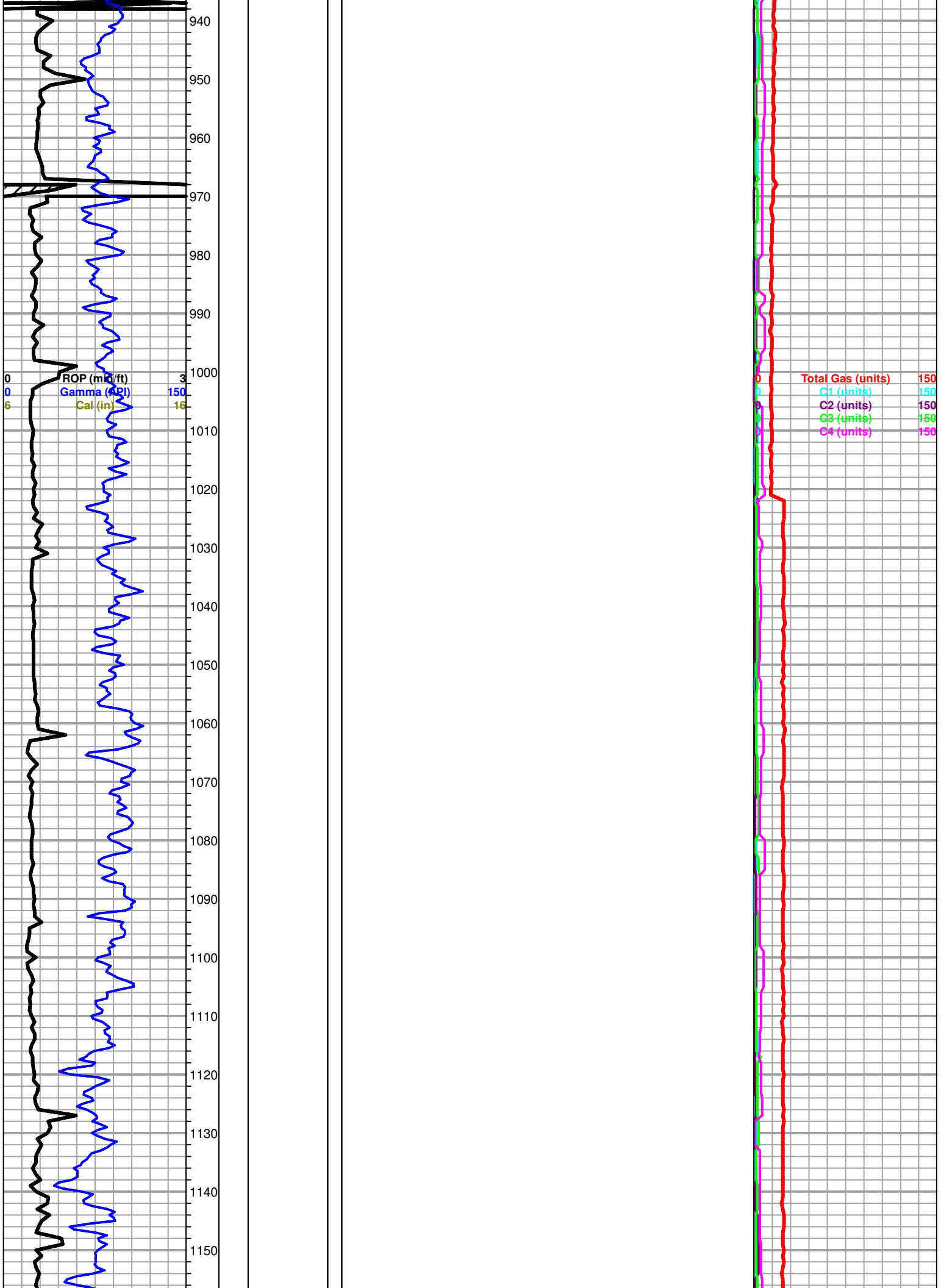
C1 (units)
150
C2 (units)
150
C3 (units)
150
C4 (units)
150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1150
0 ROP (min/ft) 3
0 Gamma (API) 150
6 Cal (in) 16
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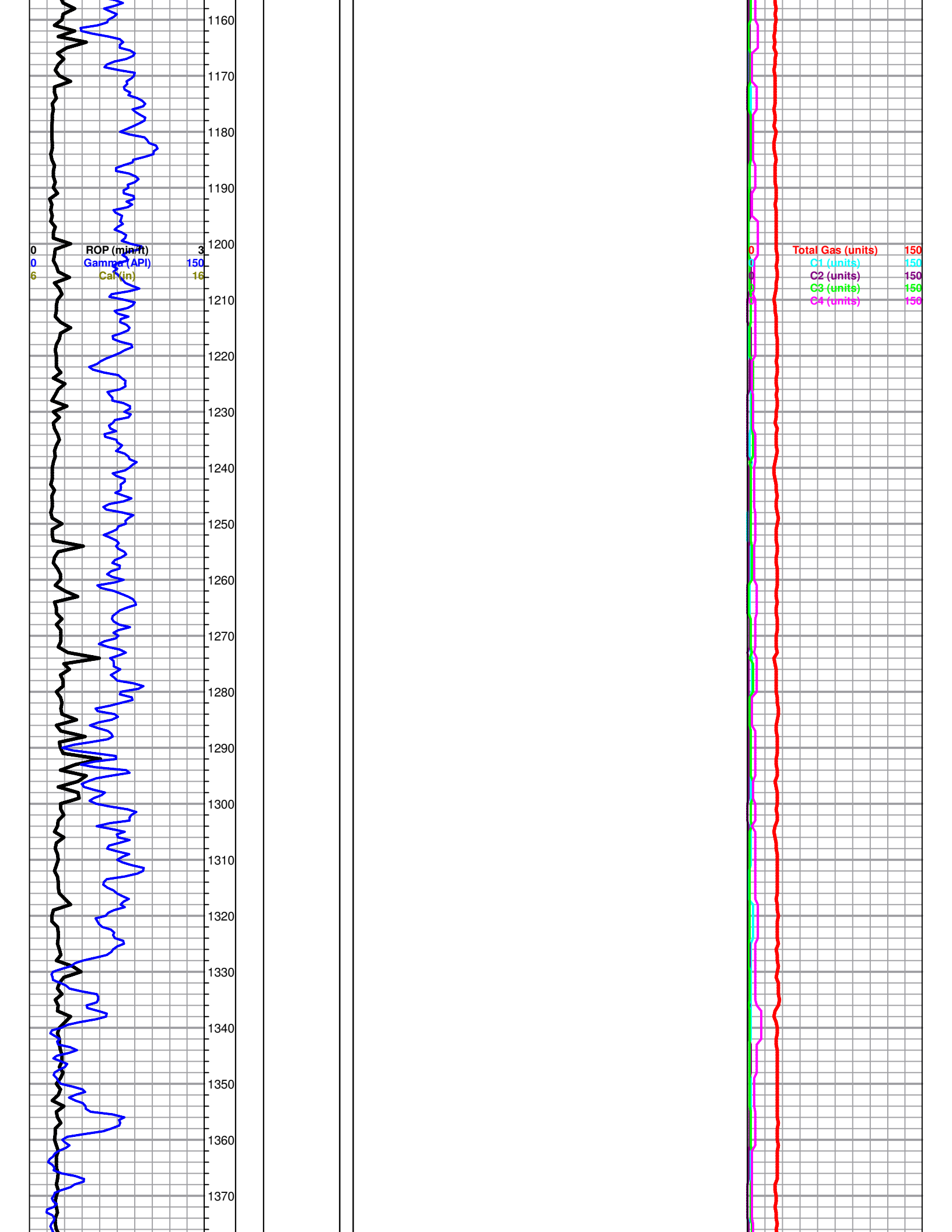
0 C1 (units) 150
0 C2 (units) 150
0 C3 (units) 150
0 C4 (units) 150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Cal (in)
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1230
1240
1250
1260
1270
1280
1290
1300
1310
1320
1330
1340
1350
1360
1370
0
Total Gas (units)
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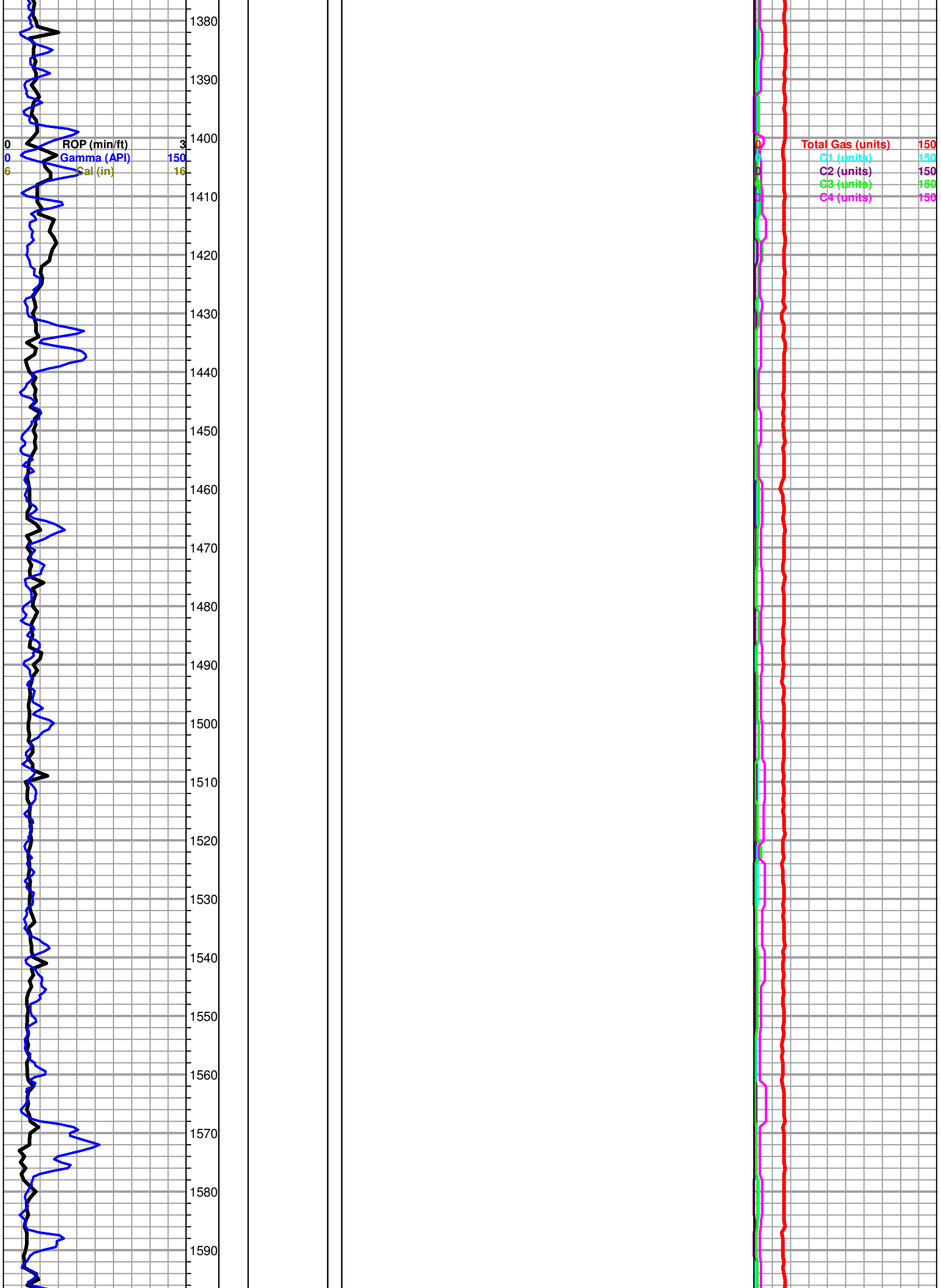
C1 (units)
150
C2 (units)
150
C3 (units)
150
C4 (units)
150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0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 150
0 C1 (units) 150
0 C2 (units) 150
0 C3 (units) 150
0 C4 (units) 150
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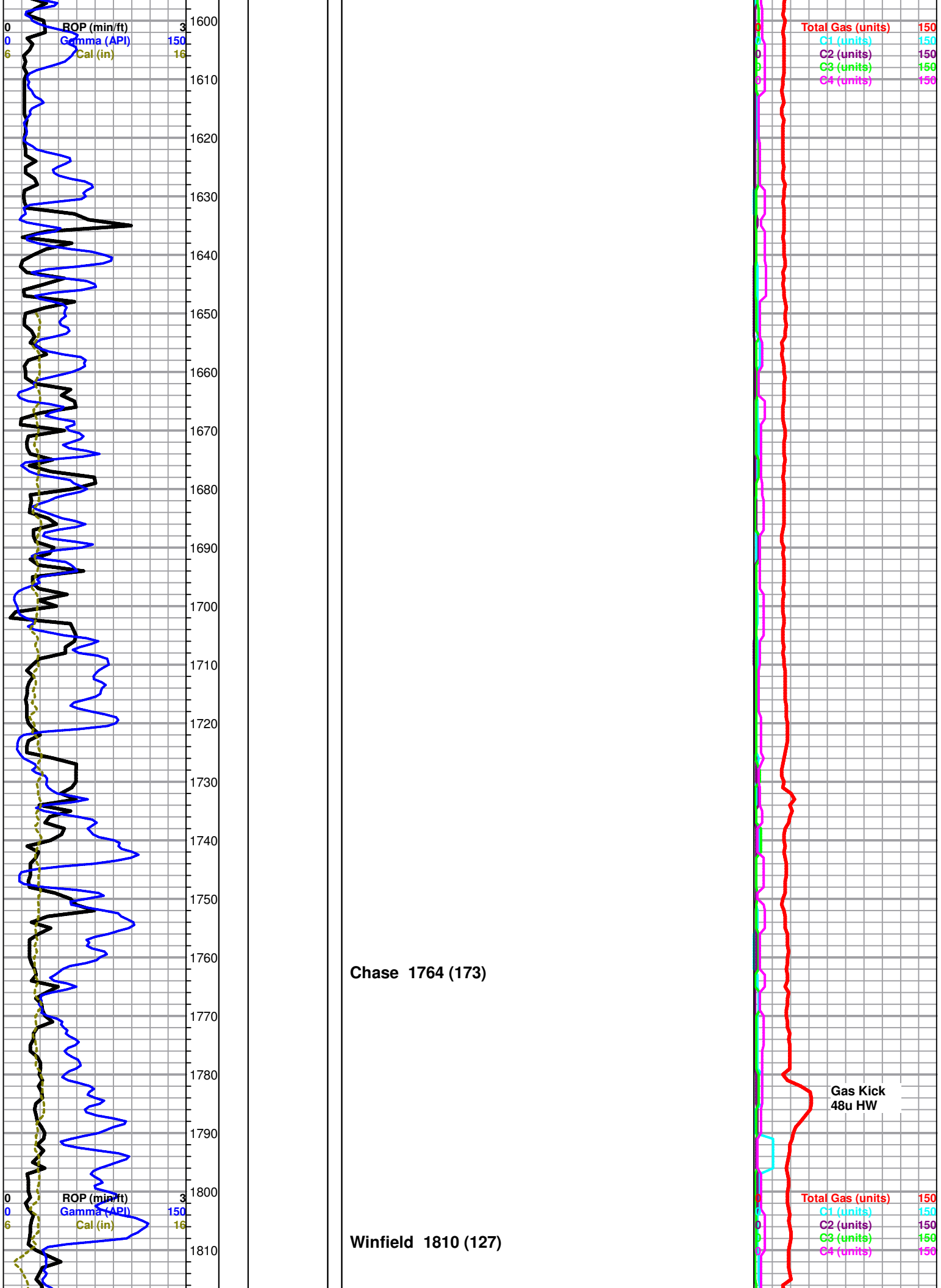
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6 Cal (in) 16
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1690
1700
1710
1720
1730
1740
1750
1760
1770
1780
1790
1800
1810
0 Total Gas (units) 150
C1 (units) 150
0 C2 (units) 150
C3 (units) 150
C4 (units) 150
Chase 1764 (173)
Gas Kick
48u HW
0 ROP (min/ft) 3
0 Gamma (API) 150
6 Cal (in) 16
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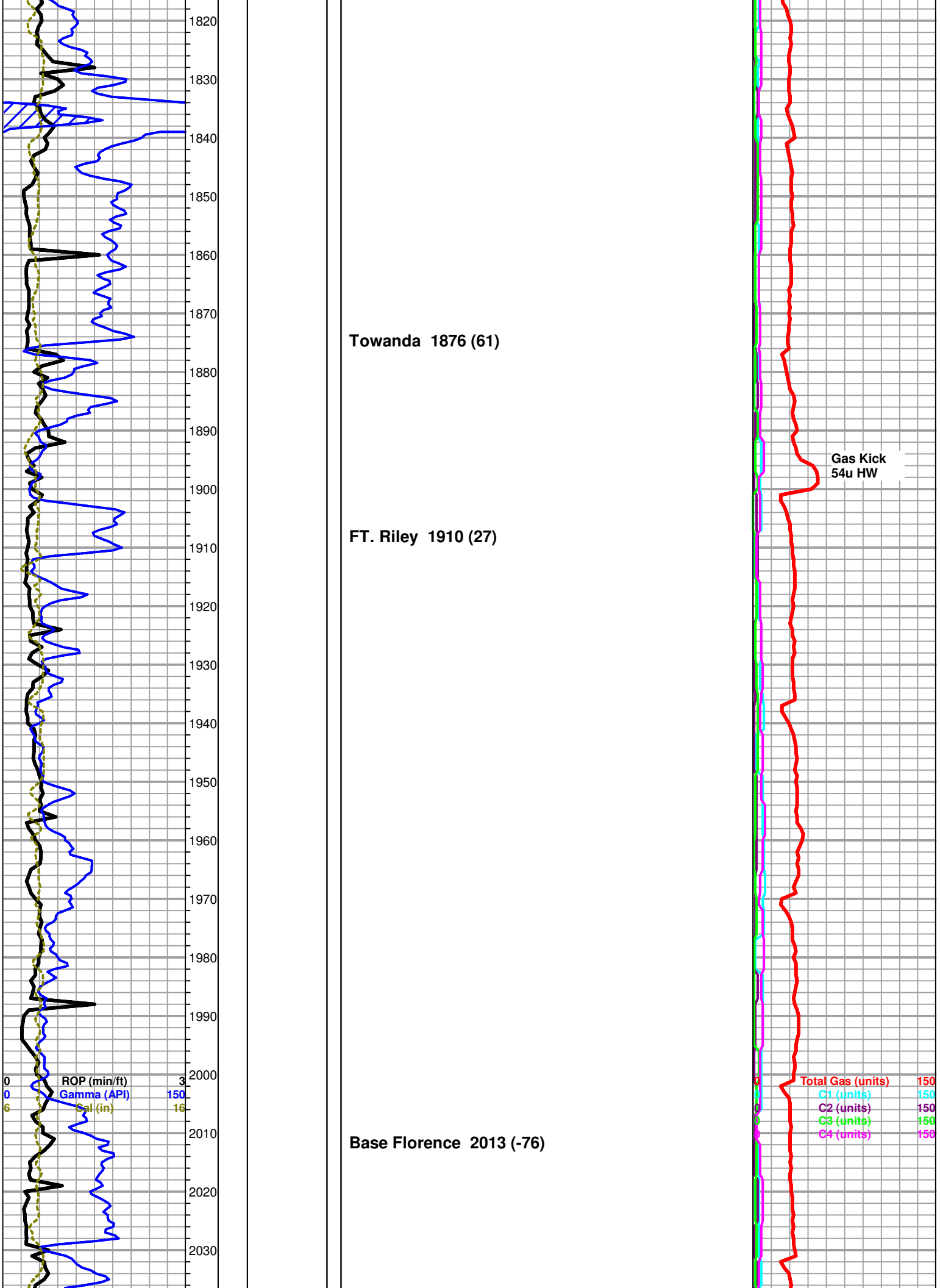
C1 (units) 150
0 C2 (units) 150
C3 (units) 150
C4 (units) 150
Winfield 1810 (127)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1860
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1880
1890
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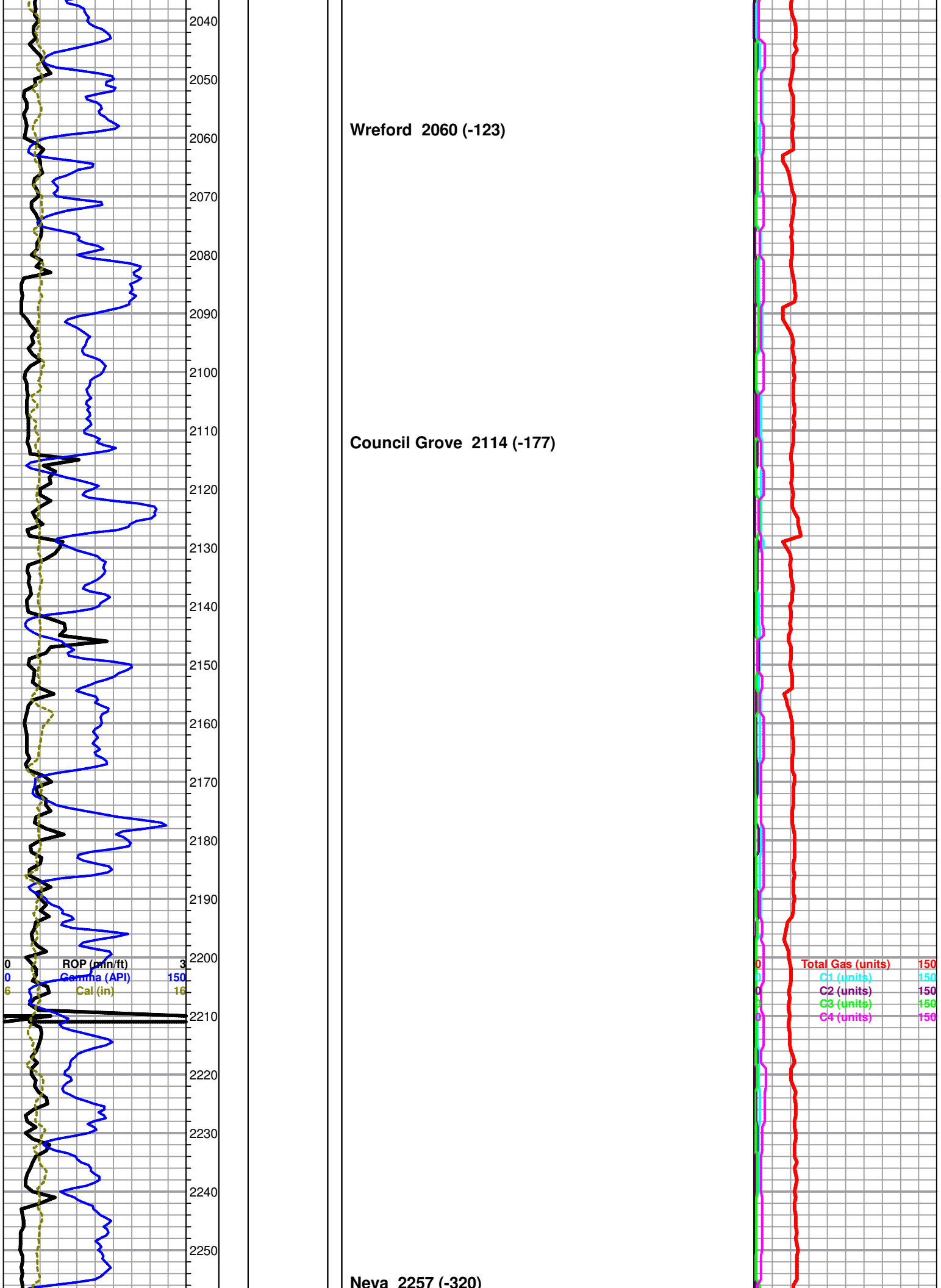
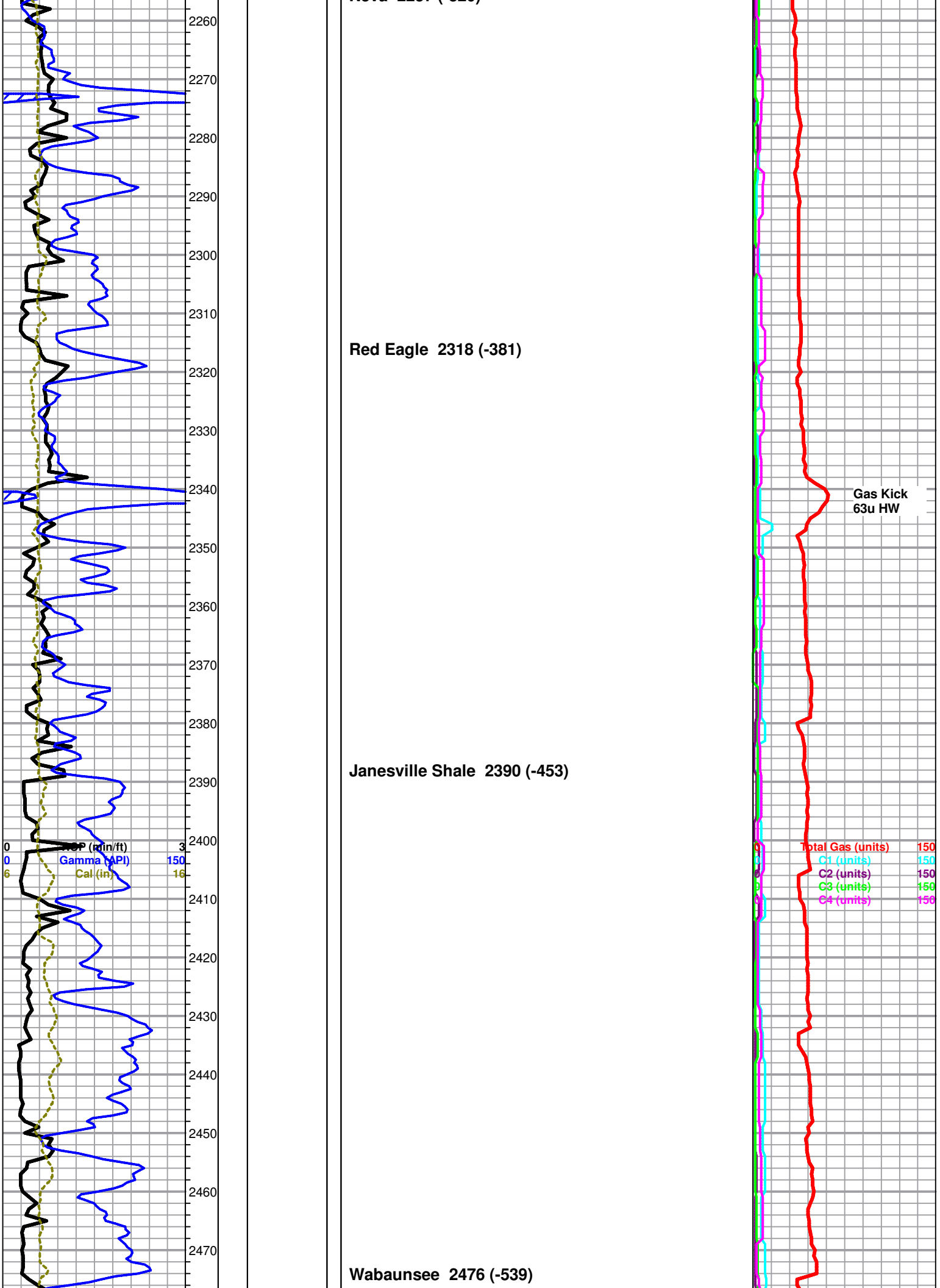
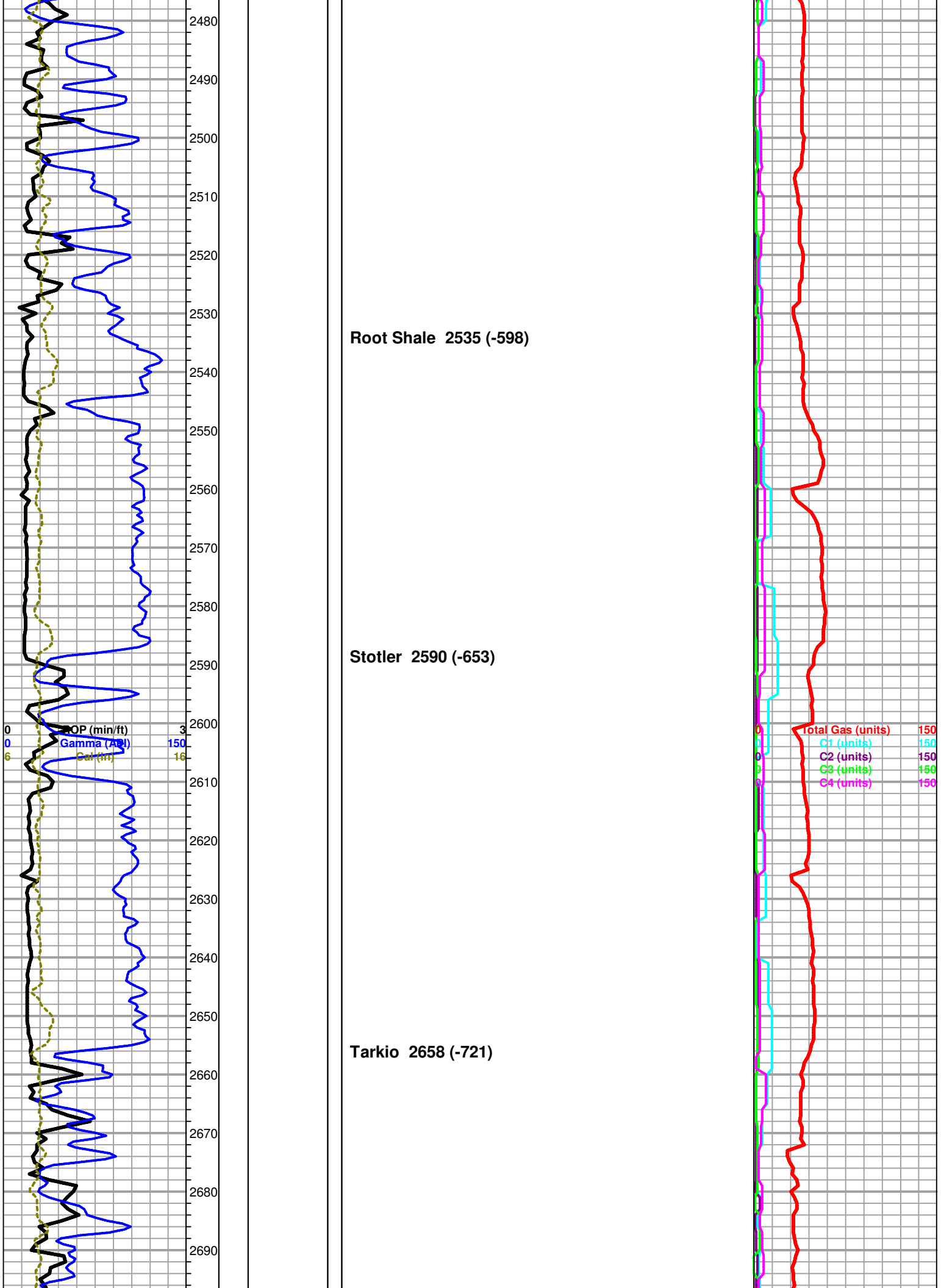
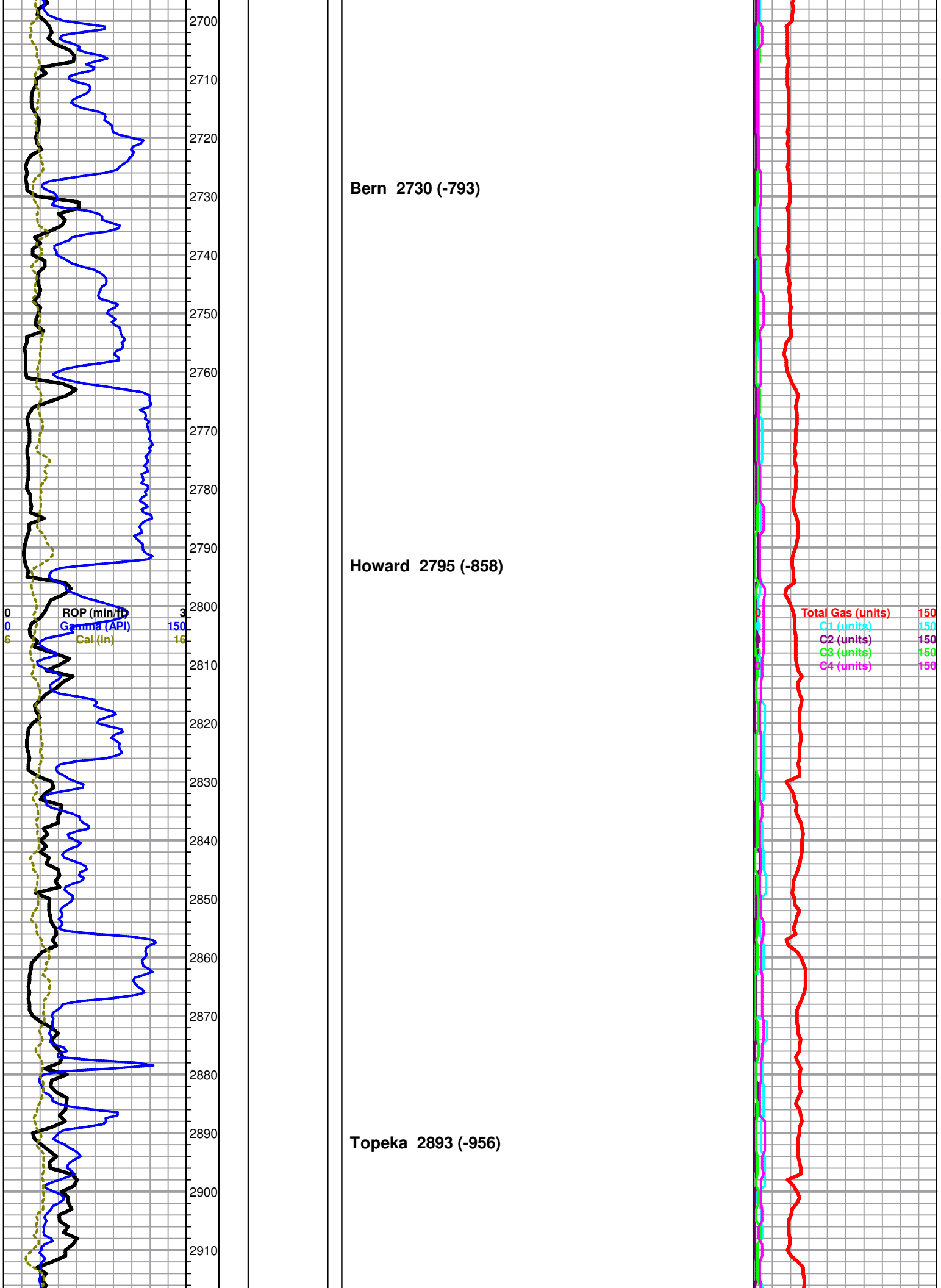
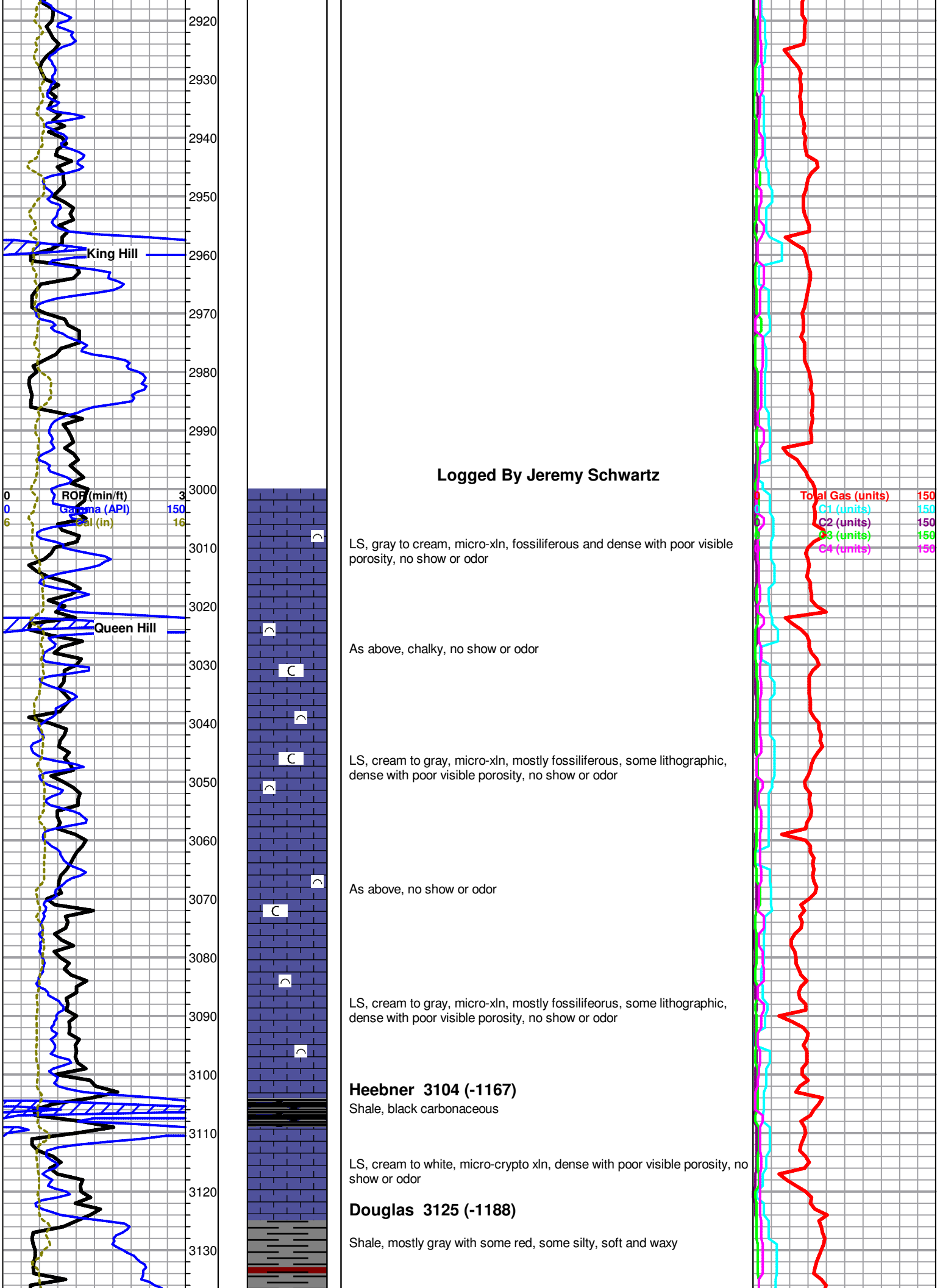
1910
1920
1930
1940
1950
1960
1970
1980
1990
2000
2010
2020
2030
0 ROP (min/ft) 3
0 Gamma (API) 150
6 Cal (in) 16
Towanda 1876 (61)
FT. Riley 1910 (27)
Base Florence 2013 (-76)
Gas Kick
54u HW
0 Total Gas (units) 150
0 C1 (units) 150
0 C2 (units) 150
0 C3 (units) 150
0 C4 (units) 150


Wreford 2060 (-123)
Council Grove 2114 (-177)
Neva 2257 (-320)
0 ROP (min/ft) 3
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 150
0 C1 (units) 150
0 C2 (units) 150
0 C3 (units) 150
0 C4 (units) 150


2260
2270
2280
2290
2300
2310
2320
2330
2340
2350
2360
2370
2380
2390
2400
2410
2420
2430
2440
2450
2460
2470
0 ROP (min/ft) 3
0 Gamma (API) 150
6 Cal (in) 16
Red Eagle 2318 (-381)
Janesville Shale 2390 (-453)
Wabaunsee 2476 (-539)
Gas Kick
63u HW
Total Gas (units) 150
C1 (units) 150
C2 (units) 150
C3 (units) 150
C4 (units) 150


2480
2490
2500
2510
2520
2530
2540
2550
2560
2570
2580
2590
2600
2610
2620
2630
2640
2650
2660
2670
2680
2690
0
ROP (min/ft)
3
0
Gamma (API)
150
6
Cal (in)
16
Root Shale 2535 (-598)
Stotler 2590 (-653)
Tarkio 2658 (-721)
0
Total Gas (units)
150
C1 (units)
150
0
C2 (units)
150
C3 (units)
150
C4 (units)
150


2700
2710
2720
2730
2740
2750
2760
2770
2780
2790
2800
2810
2820
2830
2840
2850
2860
2870
2880
2890
2900
2910
Bern 2730 (-793)
Howard 2795 (-858)
Topeka 2893 (-956)
0 ROP (min/ft) 3
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 150
0 C1 (units) 150
0 C2 (units) 150
0 C3 (units) 150
0 C4 (units) 150


2920
2930
2940
2950
King Hill
2960
2970
2980
2990
3000
0 ROP (min/ft) 3
0 Gamma (API) 150
6 Cal (in) 16
3010
Queen Hill
3020
3030
3040
3050
3060
3070
3080
3090
3100
3110
3120
3130
Logged By Jeremy Schwartz
LS, gray to cream, micro-xln, fossiliferous and dense with poor visible porosity, no show or odor
As above, chalky, no show or odor
LS, cream to gray, micro-xln, mostly fossiliferous, some lithographic, dense with poor visible porosity, no show or odor
As above, no show or odor
LS, cream to gray, micro-xln, mostly fossilifeorus, some lithographic, dense with poor visible porosity, no show or odor
Heebner 3104 (-1167)
Shale, black carbonaceous
LS, cream to white, micro-crypto xln, dense with poor visible porosity, no show or odor
Douglas 3125 (-1188)
Shale, mostly gray with some red, some silty, soft and waxy
0 Total Gas (units) 150
0 C1 (units) 150
0 C2 (units) 150
0 C3 (units) 150
0 C4 (units) 150

Shale as above

Brown Lime 3177 (-1240)

LS, brown, micro-xln, fossiliferous and dense with poor visible porosity, no show or odor

Lansing 3185 (-1248)

LS, mostly cream with some gray, micro-crypto xln, some fossiliferous, some lithographic, mostly barren and dense with poor visible porosity, some very scattered chips (~10-15%) with several small edge vugs and black stain in porosity, few chips (<5%) with fair vuggy edges to slightly vuggy porosity with black stain in porosity, VSSFO in tray, poor odor

LS, mostly cream with some gray, micro-crypto xln, mostly lithographic, some scattered slightly fossiliferous, dense with poor visible porosity, slightly chalky, no show or odor

As above, slightly chalky, no show or odor

Wondra Stoss Unit 1-15 dst1.jpg

3222' 20" LS, Cream with some gray, micro-crypto xln, lithographic with some slightly fossiliferous, mostly barren and dense with poor visible porosity, some scattered chips (~10-15%) oolitic to sub-oomoldic with some scattered poor to fair oomold porosity and brown to light golden brown stain in porosity, upon break chips have slight to fair show free oil and show some scattered fair visible porosity with slight show gas bubbles, VSSFO in tray, slightly chalky, poor odor

3222' 45" Mostly same as above with slightly less shows, NSFO, poor odor

LS, cream to gray, micro-crypto xln, some lithographic, some fossiliferous, dense with poor visible porosity, few chips (<5%) with several small very scattered edge vugs and black stain in porosity, overall poor visible porosity, NSFO, poor odor

LS, cream, micro-xln, some lithographic, some oomoldic with poor to fair oomold porosity with brown to black stain mostly confined to oomolds but partly in matrix around oomolds in few chips, fair show free oil in tray, very chalky, good odor

LS as above, with shows appearing to be dropping out, mostly barren, very chalky, SSFO, fair odor

LS, cream, micro-xln, some lithographic mixed with some oolitic to sub-oomoldic with some scattered oomoldic, dense with poor visible porosity, mostly barren, few chips with very scattered brown to black stain in few oomolds, SSFO in tray, very chalky with heavy chalky wash, fair odor

LS, gray to cream with some brown, micro-crypto xln, mostly lithographic and dense with poor visible porosity, some very scattered sub-oomoldic with poor visible porosity, NSFO, no odor

As above, no show or odor

Muncie Creek 3316 (-1379)

3330' 30" LS, cream to gray with some brown, micro-xln, some lithographic, some slightly fossiliferous, mostly dense with poor visible porosity, barren, some scattered sub-oomoldic to oomoldic, few chips with scattered poor to fair oomold porosity to slightly vuggy edges with scattered light golden brown to brown stain mostly in porosity and partly in matrix around oomolds, when agitated or broken chips have slight show free oil, SSFO in tray, slightly chalky, fair odor

3330' 60" Mostly same as above with slightly less shows, VSSFO in tray, slightly chalky, fair odor

Wondra Stoss Unit 1-15 dst2.jpg

Wondra Stoss Unit 1-15 dst3.jpg

~ 3340' LS, cream, micro-xln, some lithographic, some slightly fossiliferous, mostly dense and barren with poor visible porosity, some scattered (~10%) with very scattered vf pinpoint porosity to very slightly vuggy edges with scattered brown to black stain that increases when left under lamp, upon break chips show scattered fair inter-xln porosity with brown to black stain and fair show gas bubbles with SSFO, found few small chips with fair vuggy porosity and saturated brown stain, SSFO in tray, fair odor

Scale Change
SC
0
Bit Trip
6
ROP (minCFS @ 3180'
Gamma (API) 0100hrs
Cal (in) 11/16/14

0
0
6
ROP (min/ft)
Gamma (API)
Cal (in)

DST #1

CFS @ 3222'
0905hrs
11/16/14

"G"

"H"

DST #2

CFS @ 3330'
0235hrs
11/17/14

Survey @ 3180' = 3/4Deg
Strap 0.31STB

0 Total Gas (units) 150
C1 (units) 150
0 C2 (units) 150
C3 (units) 150
C4 (units) 150

SC
0 Trip Gas from DST #1 250
Scale Change
C2 (units) 250
C3 (units) 250
0 C4 (units) 250

Mud-Co Mud chk
3218'
11/16/14
Vis: 58 Wt: 8.9
PV:19 YP:19
WL: 8.0
Cake:2/32
pH: 10.5
Ca: 20ppm
CHL: 4,700ppm
Sol: 4.0 LCM:Tr
DMC: $1,153.30
CMC: $7,499.80

Mud-Co Mud chk
3330'
11/17/14
Vis: 50 Wt: 9.1
PV:15 YP:12
WL: 8.0
Cake:2/32
pH: 10.0
Ca: 40ppm
CHL: 5,300ppm
Sol: 5.4 LCM: 1/2
DMC: $84.10
CMC: $7,583.90

SC
0 Trip Gas from DST #2 600
Scale Change
C2 (units) 600
C3 (units) 600
C4 (units) 600

3140
3150
3160
3170
3180
3190
3200
3210
3220
3230
3240
3250
3260
3270
3280
3290
3300
3310
3320
3330
3340
3350

Stark Shale

DST #3

DST #4 & 5 & 6

0 ROP (min
0 Gamma (
6 ROP (min)

CFS @ 3405' 2055hrs 11/17/14

CFS @ 3420' 1135hrs 11/18/14

CFS @ 3428' 1310hrs 11/18/14

CFS @ 3435' 0250hrs 11/19/14

CFS @ 3444' 1815hrs 11/19/14

3360 3370 3380 3390 3400 3410 3420 3430 3440 3450 3460 3470 3480 3490 3500 3510 3520 3530 3540

F F P C C P C P P C P C C P

and saturated brown stain, SSFO in tray, fair odor

~3350-70' LS, cream to gray, micro-crypto xln, mostly lithographic, few chips (<10%) with several small edge vugs and black stain in porosity, dense with overall poor visible porosity, also with few chips (<10%) sub-oolitic with few scattered small vugs and very light scattered golden brown stain, SSFO in tray, fair odor (smells like diesel fuel?), good sheen on water, dirty wash (sample contaminated as new sample hand did not use clean water)

~3380' LS, cream to gray, micro-crypto xln, mostly dense and barren with poor visible porosity, some scattered (~15-20%) with scattered pinpoint to very slightly vuggy porosity with poor black stain in porosity, upon break VSSFO

B/KC 3396 (-1459)

3405' 30" LS, cream to gray, micro-crypto xln, mostly dense and barren with poor visible porosity, with influx of gray shale, also with some very scattered (<10%) with few scattered small vugs and scattered black stain with slight show gas bubbles in porosity, dense, fair show free oil, poor odor

3405' 60" Mostly gray and red shale with some scattered cream LS, micro-crypto xln, some fossiliferous with several very small edge vugs and very scattered black stain, NSFO, no odor

3420' 30" Red and gray shale with some scattered cream to gray LS and orange to red and tan to opaque chert, some scattered oolitic, NSFO, no odor, heavy red wash

3420' 60" Conglomerate as above, with trace dolomite, white, micro-xln, sub-sucrosic and dense with poor visible porosity, with very scattered black stain, NSFO, no odor, red wash

Arbuckle 3421 (-1484)

3428' 20" Dolomite, white, micro-med xln, sub-sucrosic to sucrosic with poor to fair sub-rhombic to rhombic development, some very scattered good rhombic, some dense, some fairly friable, overall mostly poor with some scattered fair visible inter-xln porosity and scattered brown to black inter-xln stain on most chips, some scattered chips very slowly bleed oil droplets to surface and stain increases to mostly saturated when left under lamp, upon break chips have slight to fair show free oil, SSFO in tray, fair odor

3428' 45" Mostly same as above, with slight influx of white, micro-xln, sub-sucrosic and dense with poor visible porosity, barren, VSSFO in tray, fair odor

Wondra Stoss Unit 1-15 dst4.jpg

3435' 30" Dolomite, white, micro-med xln, sub-sucrosic with poor to fair sub-rhombic development, mostly dense with poor visible porosity and very scattered to scattered brown to dark brown stain, few chips show scattered fair inter-xln porosity, upon break most chips have slight to fair show free oil, some very scattered pyrite inclusions in some chips, slightly chalky, good odor

3435' 60" Mostly same as above, few small chips (<5%) with one to two very small vugs and mostly saturated brown stain, slightly chalky, NSFO in tray, slight show gas bubbles, good odor

Wondra Stoss Unit 1-15 dst5.jpg

3444' 30" Dolomite, white, micro-xln, mostly sub-sucrosic and dense with poor visible porosity, some scattered sucrosic, some very scattered poor to fair visible inter-xln porosity on few chips, some barren, some with very scattered brown stain, SSFO upon break, some scattered pyrite and some dolomite with pyrite inclusions, with abundant shale, VSSFO in tray, fair fleeting odor

3444' 60" Dolomite, mostly same as above, some very scattered fair rhombic, with scattered to very scattered brown stain, slight to fair show free oil upon break, also with abundant shale and some scattered pyrite as above, slightly chalky, fair fleeting odor

Wondra Stoss Unit 1-15 dst6.jpg

~3450-3480' Dolomite, white, micro-xln, sub-sucrosic to sucrosic , some dense with poor visible porosity, some poor to fair sub-rhombic, some fair rhombic with fair visible porosity, some very scattered chips with several small vugs, scattered black gislonitic stain, scattered pyrite, slightly chalky, fair odor

~3490' Dolomite as above, with influx of cream, slightly less rhombic, mostly sub-sucrosic and dense with poor visible porosity, gilsonitic stain dropping out, slightly chalky, fair odor

~3500' Dolomite, white to cream, micro-xln, sub-sucrosic to sucrosic with poor visible porosity, some very scattered fair rhombic, barren, slightly chalky, poor odor

~3510' Dolomite, white to cream, micro-xln, sub-sucrosic to sucrosic with scattered poor sub-rhombic development and poor visible porosity, dense and barren, slightly chalky, poor odor

~3520' Dolomite as above, poor fleeting odor

~3530' Dolomite, white to cream, micro-xln, sub-sucrosic to sucrosic and dense with poor visible porosity, some scattered poor to fair sub-rhombic development, slightly chalky, poor fleeting odor

Rotary TD 3530' @ 1205hrs 11/20/14
Nabors Well Services Logging TD @ 3531'
Complete Logging Operations @ 2030hrs 11/20/14
Geologist Jeremy Schwartz off location @ 2200hrs 11/20/14

Mud-Co Mud chk
3405'
11/18/14
Vis: 49 Wt: 9.0
PV:16 YP:14
WL: 7.2
Cake:2/32
pH: 10.5
Ca: 40ppm
CHL: 4,400ppm
Sol: 4.8 LCM: 1/2
DMC: $1,007.20
CMC: $8,591.10

0 Total Gas 600
0 C1 (units) 600
0 C2 (units) 600
0 C3 (units) 600
0 C4 (units) 600

Survey @ 3405' = 3/4Deg

Bit Bounce and chatter @ 3421'

Mud-Co Mud chk
3435'
11/19/14
Vis: 68 Wt: 9.0
PV:21 YP:23
WL: 8.0
Cake:2/32
pH: 10.0
Ca: 40ppm
CHL: 4,600ppm
Sol: 4.7 LCM: 0
DMC: $1,397.20
CMC: $9,988.30

Mud-Co Mud chk
3444'
11/20/14
Vis: 59 Wt: 8.9
PV:22 YP:20
WL: 8.0
Cake:2/32
pH: 10.0
Ca: 40ppm
CHL: 4,800ppm
Sol: 4.0 LCM: 1/2
DMC: $1,342.50
CMC: $11,330.80

Wondra Stoss Unit 1-15 dst1.jpg

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60407 **DST#: 1**

Test Start: 2014.11.16 @ 11:40:00

GENERAL INFORMATION:

Formation: **Lansing "A-B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:57:30
Time Test Ended: 18:45:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S#/30/Great Bend

Interval: 3179.00 ft (KB) To 3222.00 ft (KB) (TVD)
Total Depth: 3222.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

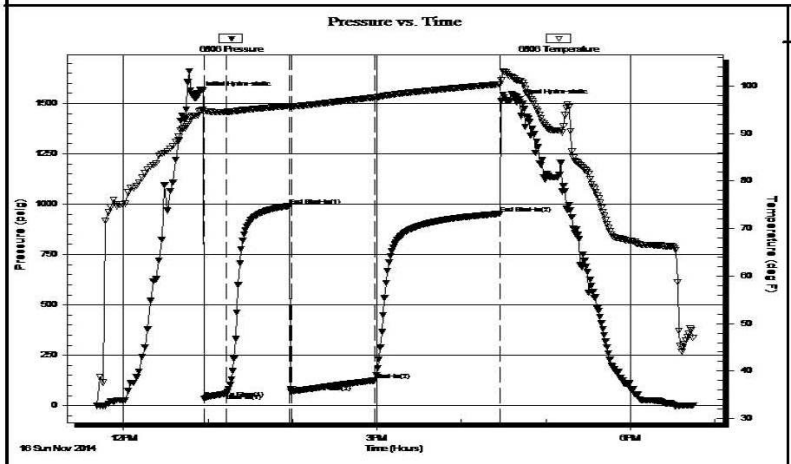
Reference Elevations: 3222.00 ft (KB)
3179.00 ft (CF)
KB to GR/CF: 43.00 ft

Serial #: 6806 **Inside**

Press@RunDepth: 125.26 psig @ 3218.00 ft (KB)
Start Date: 2014.11.16 End Date: 2014.11.16
Start Time: 11:41:00 End Time: 18:45:00

Capacity: 8000.00 psig
Last Calib.: 2014.11.16
Time On Btm: 2014.11.16 @ 12:53:30
Time Off Btm: 2014.11.16 @ 16:39:00

TEST COMMENT: 1st Open/ 15 Minutes. Fair blow built to 10 inches into bucket of water.
1st shut In/ 45 Minutes. Weak surface blow back.
2nd Open/ 60 Minutes. Good blow built to bottom of 5 gallon bucket in 17 minutes and 20 seconds.
2nd Shut In/ 90 Minutes. Weak surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1548.00	94.64	Initial Hydro-static
4	37.27	94.74	Open To Flow (1)
19	60.26	94.60	Shut-In(1)
64	991.28	95.86	End Shut-In(1)
66	67.50	95.71	Open To Flow (2)
125	125.26	97.64	Shut-In(2)
214	952.81	100.41	End Shut-In(2)
226	1506.48	101.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	63 feet Gas in pipe.	0.00
189.00	Gas, oil, mud cut water	0.93
0.00	2.5% gas 2.5% Oil 25% Mud 70% water	0.00
63.00	Muddy water	0.31
0.00	15% mud, 85% water	0.00
0.00	Resist recov. .21 at 40 degrees	0.00

Gas Rates

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

Wondra Stoss Unit 1-15 dst2.jpg

DRILL STEM TEST REPORT

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60408 **DST#: 2**

Test Start: 2014.11.17 @ 04:55:00

GENERAL INFORMATION:

Formation: **Lansing "H"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:56:00
Time Test Ended: 13:11:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3/30/Great Bend

Interval: 3305.00 ft (KB) To 3330.00 ft (KB) (TVD)
Total Depth: 3330.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

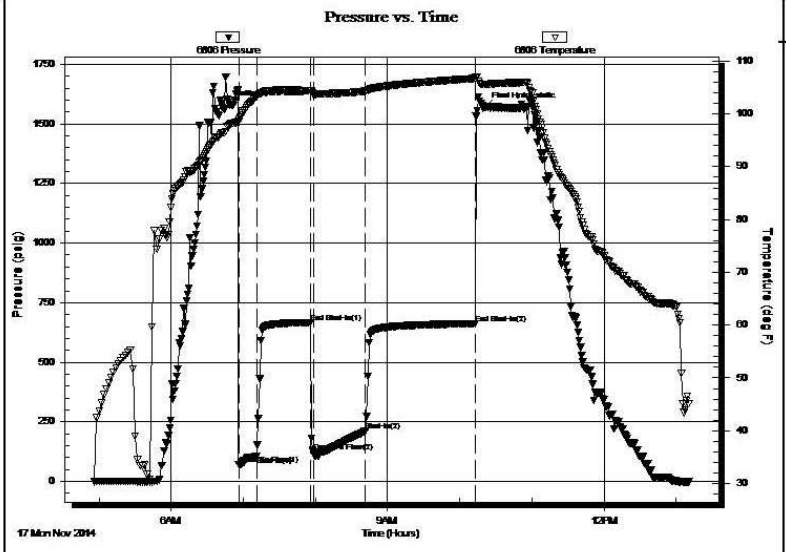
Reference Elevations: 3222.00 ft (KB)
3179.00 ft (CF)
KB to GR/CF: 43.00 ft

Serial #: 6806 **Inside**

Press@RunDepth: 212.31 psig @ 3326.00 ft (KB)
Start Date: 2014.11.17 End Date: 2014.11.17
Start Time: 04:56:00 End Time: 13:11:00

Capacity: 8000.00 psig
Last Calib.: 2014.11.17
Time On Btm: 2014.11.17 @ 06:50:30
Time Off Btm: 2014.11.17 @ 10:20:30

TEST COMMENT: 1st Open/ 15 Minutes. Strong blow built to bottom of 5 gallon bucket in 1 minutes.
1st Shut In/ 45 Minutes. Blow back built to 6 inches into deisel.
2nd Open/ 45 Minutes. Strong blow built to bottom of 5 gallon bucket in 1 minutes. Gas to surface in 15 minutes. Gas was unmeasurable.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1578.89	98.19	Initial Hydro-static
6	70.16	98.41	Open To Flow (1)
21	107.34	103.25	Shut-In(1)
66	667.56	104.43	End Shut-In(1)
68	124.14	103.82	Open To Flow (2)
111	212.31	104.30	Shut-In(2)
203	662.19	106.71	End Shut-In(2)
210	1567.71	105.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
640.00	100% Clean gassy oil	4.79

Gas Rates

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

Wondra Stoss Unit 1-15 dst3.jpg

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shelby Resources, LLC.

2717 Canal BLVD Suite C
Hays Ks, 67601

ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60409 **DST#: 3**

Test Start: 2014.11.18 @ 12:00:00

GENERAL INFORMATION:

Formation: **Lansing "I-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:55:30
Time Test Ended: 19:39:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3/30/Great Bend

Interval: 3335.00 ft (KB) To 3405.00 ft (KB) (TVD)
Total Depth: 3405.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

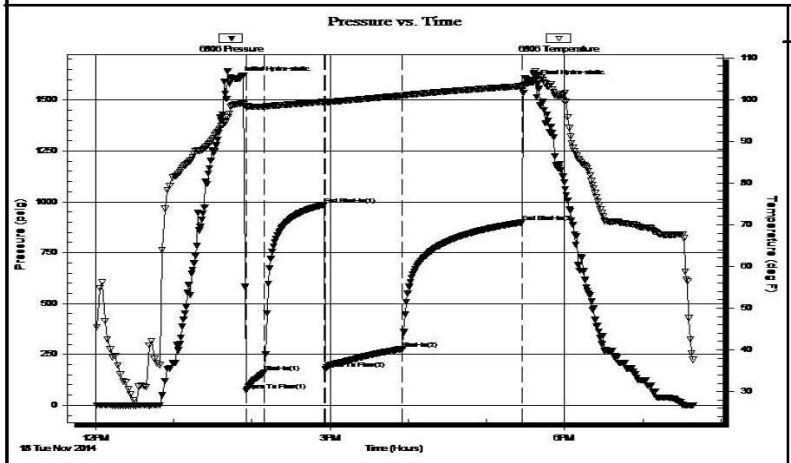
Reference Elevations: 3222.00 ft (KB)
3179.00 ft (CF)
KB to GR/CF: 43.00 ft

Serial #: 6806 **Inside**

Press@RunDepth: 278.06 psig @ 3401.36 ft (KB)
Start Date: 2014.11.18 End Date: 2014.11.18
Start Time: 12:01:00 End Time: 19:39:00

Capacity: 8000.00 psig
Last Calib.: 2014.11.18
Time On Btm: 2014.11.18 @ 13:49:30
Time Off Btm: 2014.11.18 @ 17:36:00

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 6 minutes and 20 seconds.
1st Shut In/ 45 Minutes. No blow back.
2nd Open/ 60 Minutes. Good blow built to bottom of 5 gallon bucket in 10 minutes.
2nd Shut In/ 90 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1603.03	98.94	Initial Hydro-static
6	71.22	98.46	Open To Flow (1)
20	161.59	98.29	Shut-In(1)
66	985.66	99.48	End Shut-In(1)
67	180.48	99.36	Open To Flow (2)
126	278.06	100.95	Shut-In(2)
218	899.45	103.19	End Shut-In(2)
227	1586.47	104.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
156.00	Gassy oil cut mud	0.77
0.00	15% gas, 25% oil, 60% mud	0.00
126.00	Oil cut muddy water	0.62
0.00	5% oil, 40% mud, 55% water	0.00
63.00	muddy water	0.73
0.00	40% mud, 60% water	0.00

Gas Rates

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

Wondra Stoss Unit 1-15 dst4.jpg

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60410 **DST#: 4**

Test Start: 2014.11.18 @ 15:52:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:43:30
Time Test Ended: 23:20:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3/30/Great Bend

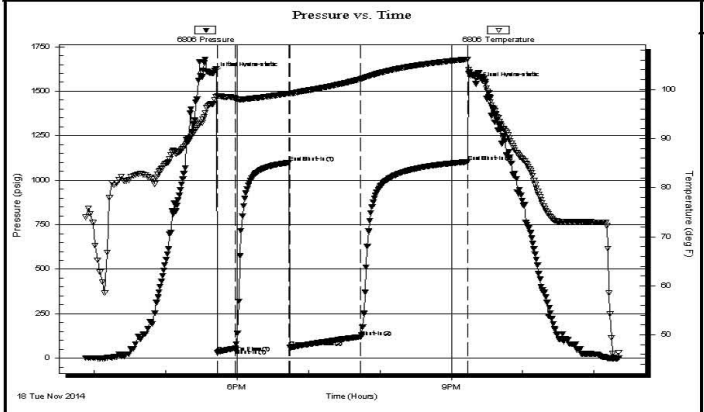
Interval: 3392.00 ft (KB) To 3428.00 ft (KB) (TVD)
Total Depth: 3428.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3222.00 ft (KB)
3179.00 ft (CF)
KB to GR/CF: 43.00 ft

Serial #: 6806 **Inside**
Press@RunDepth: 119.88 psig @ 3424.00 ft (KB)
Start Date: 2014.11.18 End Date: 2014.11.18
Start Time: 15:53:00 End Time: 23:20:30

Capacity: 8000.00 psig
Last Calib.: 2014.11.19
Time On Btm: 2014.11.18 @ 17:40:30
Time Off Btm: 2014.11.18 @ 21:20:30

TEST COMMENT: 1st Open/ 15 Minutes. Weak blow built to 3 1/2 inches into bucket of deisel.
1st Shut In/ 45 Minutes. No blow back.
2nd Open/ 60 Minutes. Fair blow built to bottom of 5 gallon bucket in 45 minutes.
2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1598.74	97.08	Initial Hydro-static
3	32.62	98.63	Open To Flow (1)
18	55.17	98.16	Shut-In(1)
63	1098.30	99.22	End Shut-In(1)
64	60.47	99.16	Open To Flow (2)
124	119.88	102.16	Shut-In(2)
213	1103.00	106.15	End Shut-In(2)
220	1541.64	102.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	63 feet gas in pipe	0.00
315.00	100% clean gassy oil	1.70

Gas Rates

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

Wondra Stoss Unit 1-15 dst5.jpg

DRILL STEM TEST REPORT

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60411 **DST#: 5**

Test Start: 2014.11.19 @ 05:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:20:30
Time Test Ended: 12:30:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3/30/Great Bend

Interval: 3428.00 ft (KB) To 3435.00 ft (KB) (TVD)
Total Depth: 3435.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

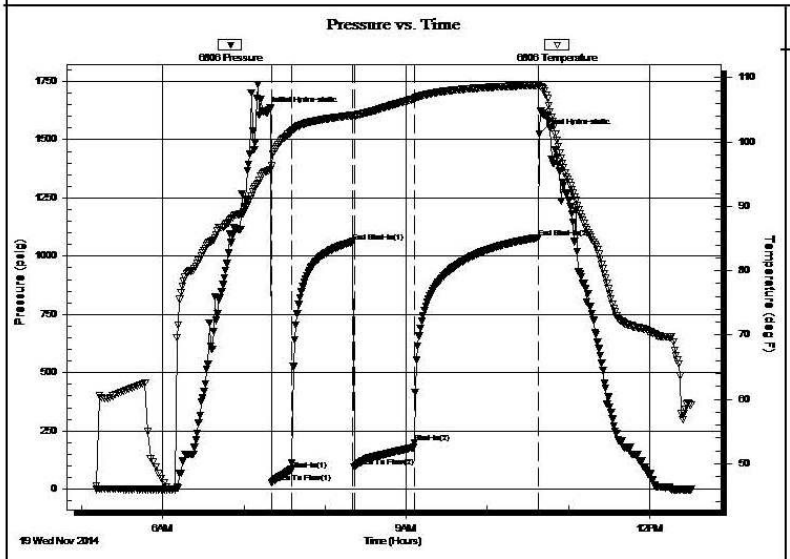
Reference Elevations: 3222.00 ft (KB)
3179.00 ft (CF)
KB to GR/CF: 43.00 ft

Serial #: 6806 **Inside**

Press@RunDepth: 200.03 psig @ 3431.00 ft (KB)
Start Date: 2014.11.19 End Date: 2014.11.19
Start Time: 05:11:00 End Time: 12:30:30

Capacity: 8000.00 psig
Last Calib.: 2014.11.19
Time On Btm: 2014.11.19 @ 07:15:30
Time Off Btm: 2014.11.19 @ 10:38:30

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 10 minutes.
1st Shut In/ 45 Minutes. Weak surface blow back.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 13 minutes.
2nd Shut In/ 90 Minutes. Weak surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1618.87	95.32	Initial Hydro-static
5	27.53	96.27	Open To Flow (1)
20	84.61	101.58	Shut-In(1)
65	1061.89	104.14	End Shut-In(1)
66	94.96	104.02	Open To Flow (2)
111	200.03	106.71	Shut-In(2)
202	1079.65	108.83	End Shut-In(2)
203	1524.43	108.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
472.00	100% Clean Oil	3.90
63.00	Muddy cut oil	0.88
0.00	20% mud, 80% oil	0.00

Gas Rates

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

Wondra Stoss Unit 1-15 dst6.jpg

DRILL STEM TEST REPORT

Shelby Resources, LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

15/18s/14w/Barton

Wondra-Stoss #1-15

Job Ticket: 60412 **DST#: 6**

Test Start: 2014.11.19 @ 21:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:19:30
Time Test Ended: 05:54:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3/30/Great Bend

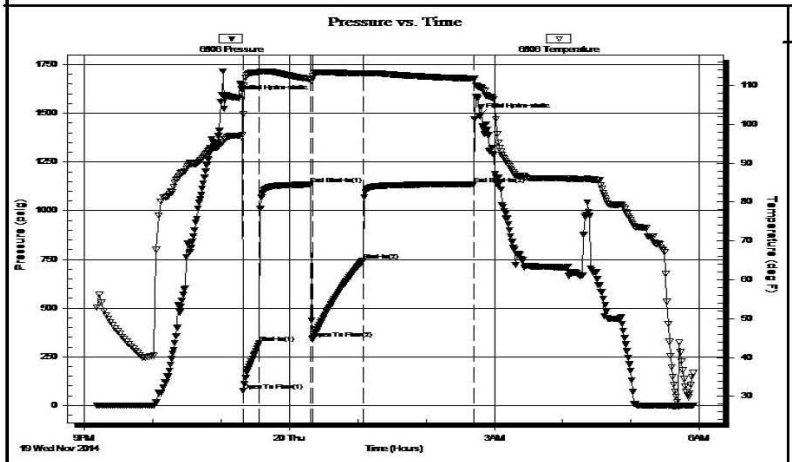
Interval: 3435.00 ft (KB) To 3444.00 ft (KB) (TVD)
Total Depth: 3444.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1937.00 ft (KB)
1924.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6806 **Inside**
Press@RunDepth: 743.09 psig @ 3440.00 ft (KB)
Start Date: 2014.11.19 End Date: 2014.11.20
Start Time: 21:10:00 End Time: 05:54:30

Capacity: 8000.00 psig
Last Calib.: 2014.11.20
Time On Btm: 2014.11.19 @ 23:12:30
Time Off Btm: 2014.11.20 @ 02:46:30

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes and 15 seconds.
1st Shut In/ 45 Minutes. Weak surface blow back.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes and 20 seconds.
2nd Shut In/ 90 Minutes. 2 inch blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1580.77	97.07	Initial Hydro-static
7	76.02	102.50	Open To Flow (1)
21	319.38	113.36	Shut-In(1)
67	1134.53	111.57	End Shut-In(1)
68	340.59	111.83	Open To Flow (2)
112	743.09	113.04	Shut-In(2)
209	1136.26	111.76	End Shut-In(2)
214	1487.01	109.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	189 feet gas in pipe.	0.00
30.00	100% Clean Oil	0.00
63.00	Mud, Oil, cut Water	0.00
0.00	20% mud, 30% Oil, 50% water	0.00
1607.00	Reversed out of pipe	19.66
0.00	resist recov, .22 at 40 degrees	0.00

Gas Rates

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