KOLAR Document ID: 1584481

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 # 35714
Name: Briscoe Petroleum, LLC
Address 1: PO Box 6690
Address 2:
City: SHERIDAN State: WY Zip: 82801 + ____
Contact Person: Rick D. Briscoe
Phone: (307) 752-7630
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Jeremy Schwartz
Purchaser: Not Known

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 #:

07/19/2021	07/26/2021	09/25/2021
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-007-24380-00-00
Spot Description:
__ - __ - SW - SE Sec. 26 Twp. 33 S. R. 12 ☐ East ☑ West
660 Feet from ☐ North / ☑ South Line of Section
1980 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: Barber
Lease Name: LONG HEIRS Well #: 1
Field Name: Groendycke
Producing Formation: Viola
Elevation: Ground: 1539 Kelly Bushing: 1552
Total Vertical Depth: 5233 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 235 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: 5000 ppm Fluid volume: 260 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:
Operator Name: Chieftain Oil Company
Lease Name: Big Chief SWD License #: 1
Quarter SW Sec. 6 Twp. 35 S. R. 11 ☐ East ☑ West
County: Barber Permit #: D30859.0

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: 10/11/2021
☐ **Confidential Release Date:** 10/11/2023
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Deanna Garrison **Date:** 10/12/2021

Page Two

Operator Name: Briscoe Petroleum, LLC Lease Name: LONG HEIRS Well #: 1

Sec. 26 Twp. 33 S. R. 12 ☐ East ☑ West County: Barber

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

Geologist Report / Mud Logs ☑ Yes ☐ No

List All E. Logs Run:
Attached

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

Name: Attached Top: Attached Datum: 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	32	235	60/40/2 Poz	150	3%cc and. 25 PPS Cello-Flake
Production	7.875	5.5	17	5216	H-Plug	50	No Additives
Production	7.875	5.5	17	5216	H-LD	125	.25 PPS Cello-Flake

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☐ Protect Casing
☐ Plug Back TD
☐ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
-			
-			

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: 10/05/2021

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	1	0	35		

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)*

PRODUCTION INTERVAL:

Top	Bottom
5006	5016

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)*
	5006	5016			1,000 gallons, 15% MCA
	5006	5016			Vert Frac; 20/40 29,040#; 16/30 13,880#, Fluid 583 bbl

TUBING RECORD: Size: 2.875 Set At: 5027 Packer At:

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

Form	ACO1 - Well Completion
Operator	Briscoe Petroleum, LLC
Well Name	LONG HEIRS 1
Doc ID	1584481

All Electric Logs Run

DIL
CNDL
ML
BHCSL

Form	ACO1 - Well Completion
Operator	Briscoe Petroleum, LLC
Well Name	LONG HEIRS 1
Doc ID	1584481

Tops

Name	Top	Datum
Heebner	3763	-2211
Douglas	3848	-2296
Brown LM	3941	-2389
Lansing	3954	-2402
BKC	4477	-2925
Pawnee	4568	-3016
Ft. Scott	4592	-3040
Cherokee	4605	-3053
Mississippian	4647	-3095
Kinderhook	4888	-3336
Simpson Shale	5111	-3559
RTD	5230	-3678

Form	ACO1 - Well Completion
Operator	Briscoe Petroleum, LLC
Well Name	LONG HEIRS 1
Doc ID	1584481

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	32	235	60/40/2 Poz	150	3%cc and. 25 PPS Cello-Flake
Production	7.875	5.5	17	5216	H-Plug	50	No Additives
Production	7.875	5.5	17	5216	H-LD	125	.25 PPS Cello-Flake

Scale 1:240 Imperial

Well Name:	Long Heirs #1		
Surface Location:	660' FSL _ 1980' FEL, Sec. 26-T33s-R12w		
Bottom Location:			
API:	15-007-24380-00-00		
License Number:	5929		
Spud Date:	7/19/2021	Time:	5:00 PM
Region:	Barber		
Drilling Completed:	7/26/2021	Time:	5:40 AM
Surface Coordinates:			
Bottom Hole Coordinates:			
Ground Elevation:	1539.00ft		
K.B. Elevation:	1552.00ft		
Logged Interval:	3400.00ft	To:	5230.00ft
Total Depth:	5230.00ft		
Formation:	V1/Misener		
Drilling Fluid Type:	Chemical/Fresh Water Gel		

OPERATOR

Company:	Briscoe Petroleum, LLC		
Address:	45 E. Loucks, Suite 209 PO Box 6690 Sheridan, WY 82801		
Contact Geologist:	Rick Briscoe		
Contact Phone Nbr:			
Well Name:	Long Heirs #1		
Location:	660' FSL _ 1980' FEL, Sec. 26-T33s-R12w		
API:	15-007-24380-00-00		
Pool:		Field:	Groendyke
State:	Kansas	Country:	USA

LOGGED BY

Company:	Mile High Exploration, LLC		
Address:	14645 Sterling Road Colorado Springs, CO 80921		
Phone Nbr:	203-671-6034		
Logged By:	Geologist	Name:	Jeremy Schwartz

CONTRACTOR

Contractor:	Duke Drilling		
Rig #:	7		
Rig Type:	mud rotary		
Spud Date:	7/19/2021	Time:	5:00 PM
TD Date:	7/26/2021	Time:	5:40 AM
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation:	1552.00ft	Ground Elevation:	1539.00ft
K.B. to Ground:	13.00ft		

ROCK TYPES

Cht, Dolprim, Lmst fw<7, shale, grn, shale, gry, Carbon Sh, shale, red, Ss

ACCESSORIES

FOSSIL
- Bioclastic or Fragmental
- F Fossils < 20%
- Oolite
- Oolites
- Oomoldic

STRINGER
- Chert
- Dolomite
- Limestone
- Sandstone
- Siltstone
- Shale

TEXTURE
- C Chalky

red shale

OTHER SYMBOLS

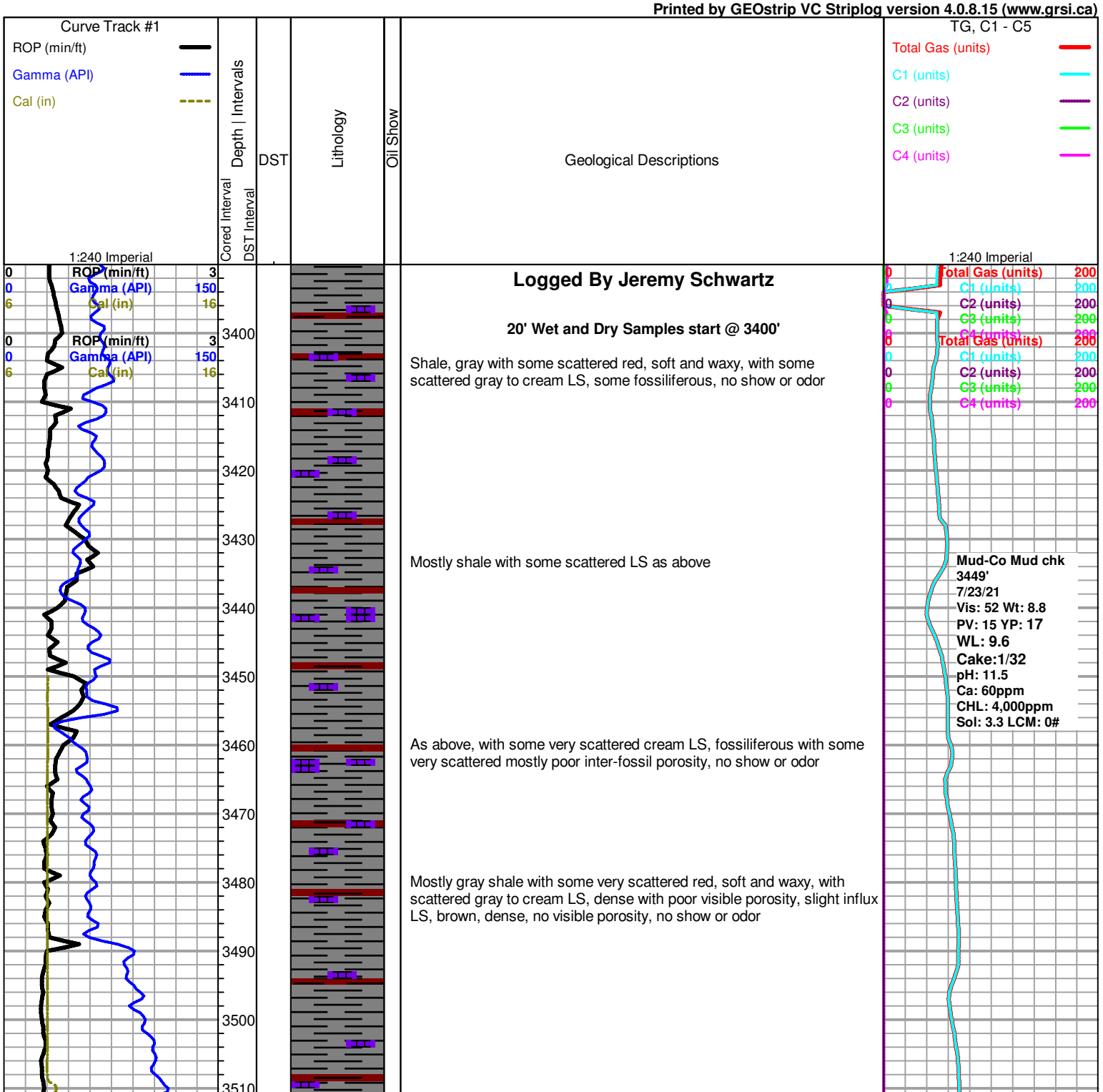
MISC

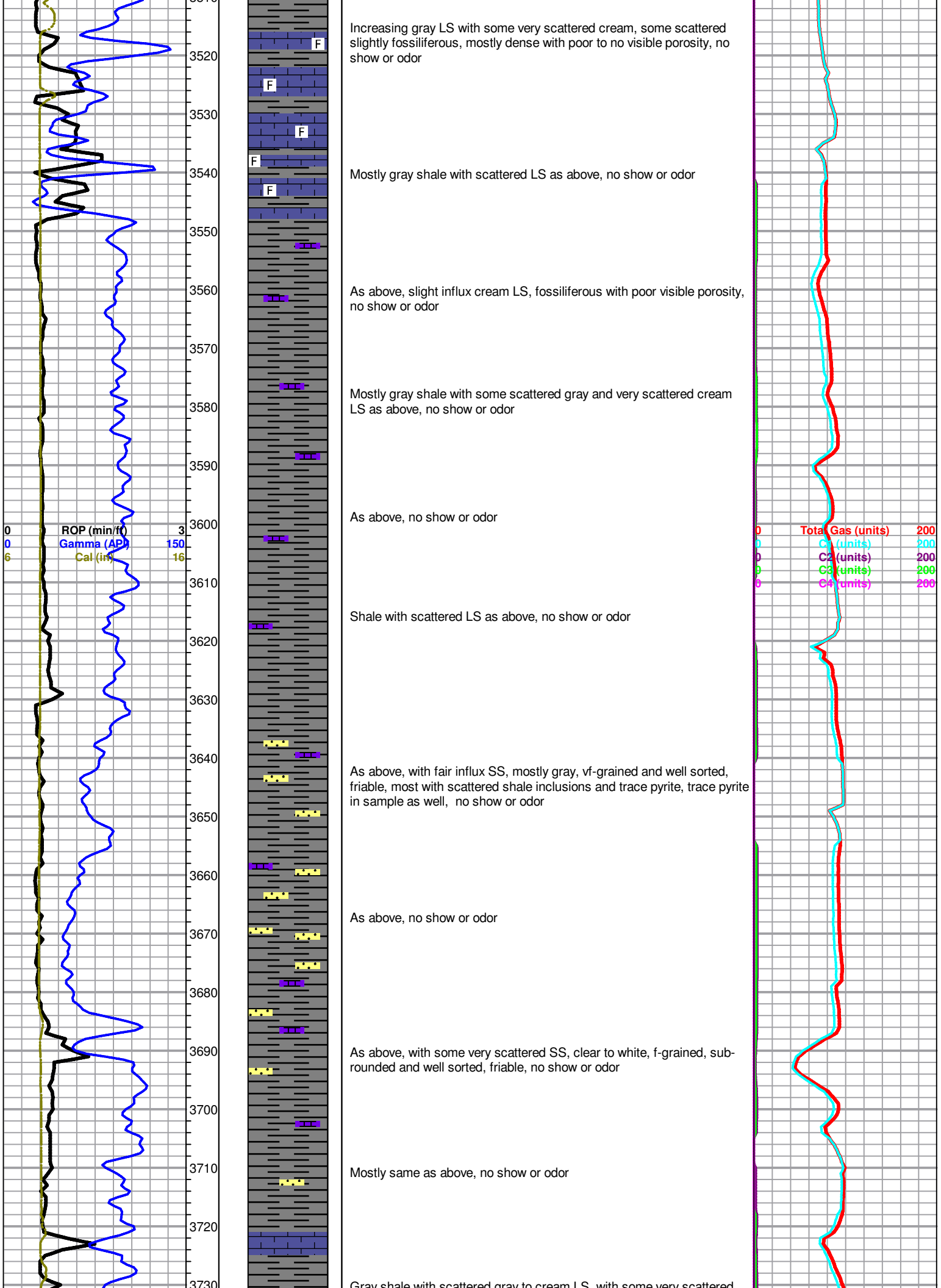
- Daily Report
- Digital Photo
- Document
- Folder
- Link
- Vertical Log File
- Horizontal Log File
- Core Log File
- Drill Cuttings Rpt

DST

- DST Int
- DST alt

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





Increasing gray LS with some very scattered cream, some scattered slightly fossiliferous, mostly dense with poor to no visible porosity, no show or odor

Mostly gray shale with scattered LS as above, no show or odor

As above, slight influx cream LS, fossiliferous with poor visible porosity, no show or odor

Mostly gray shale with some scattered gray and very scattered cream LS as above, no show or odor

As above, no show or odor

Shale with scattered LS as above, no show or odor

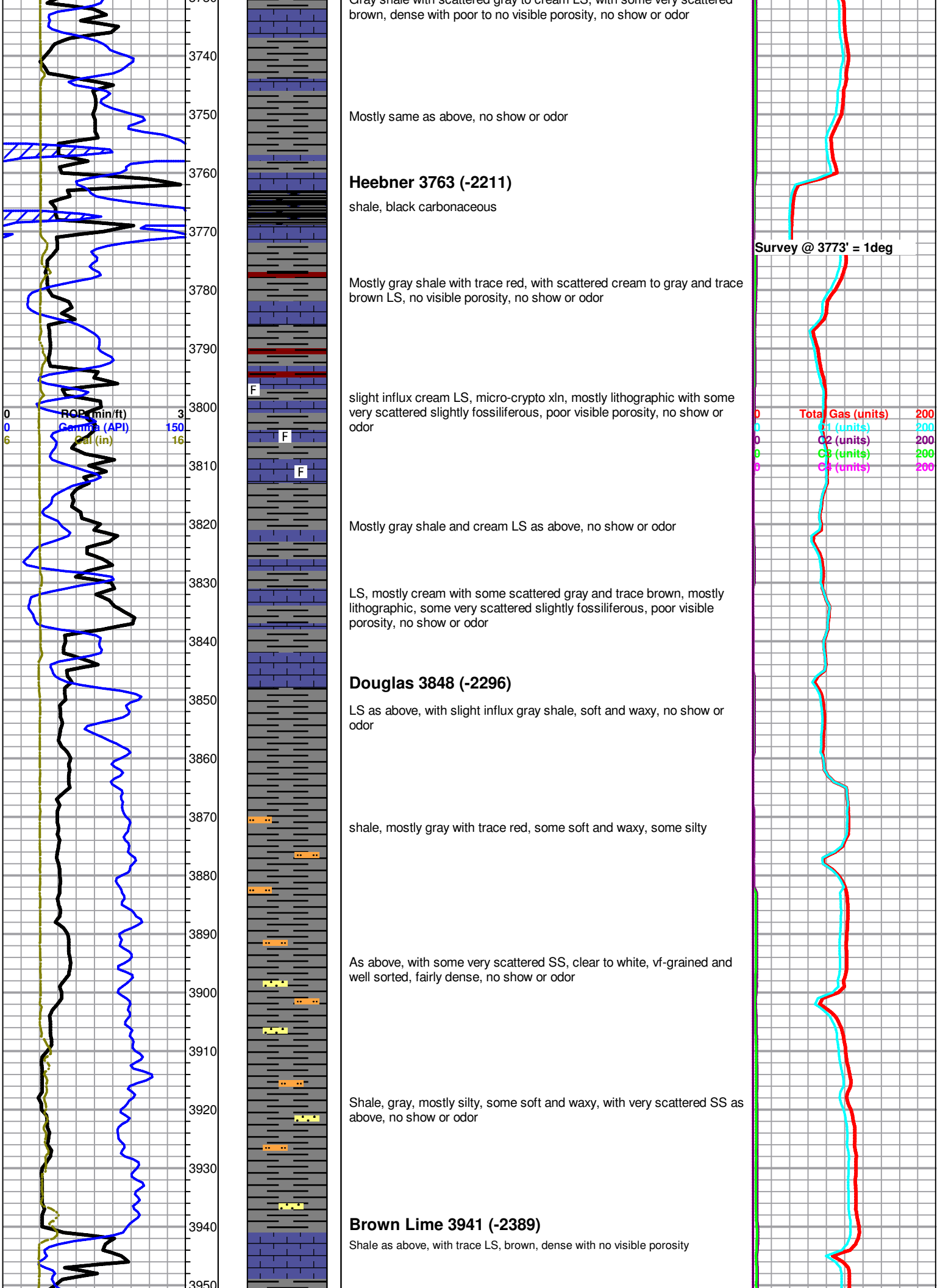
As above, with fair influx SS, mostly gray, vf-grained and well sorted, friable, most with scattered shale inclusions and trace pyrite, trace pyrite in sample as well, no show or odor

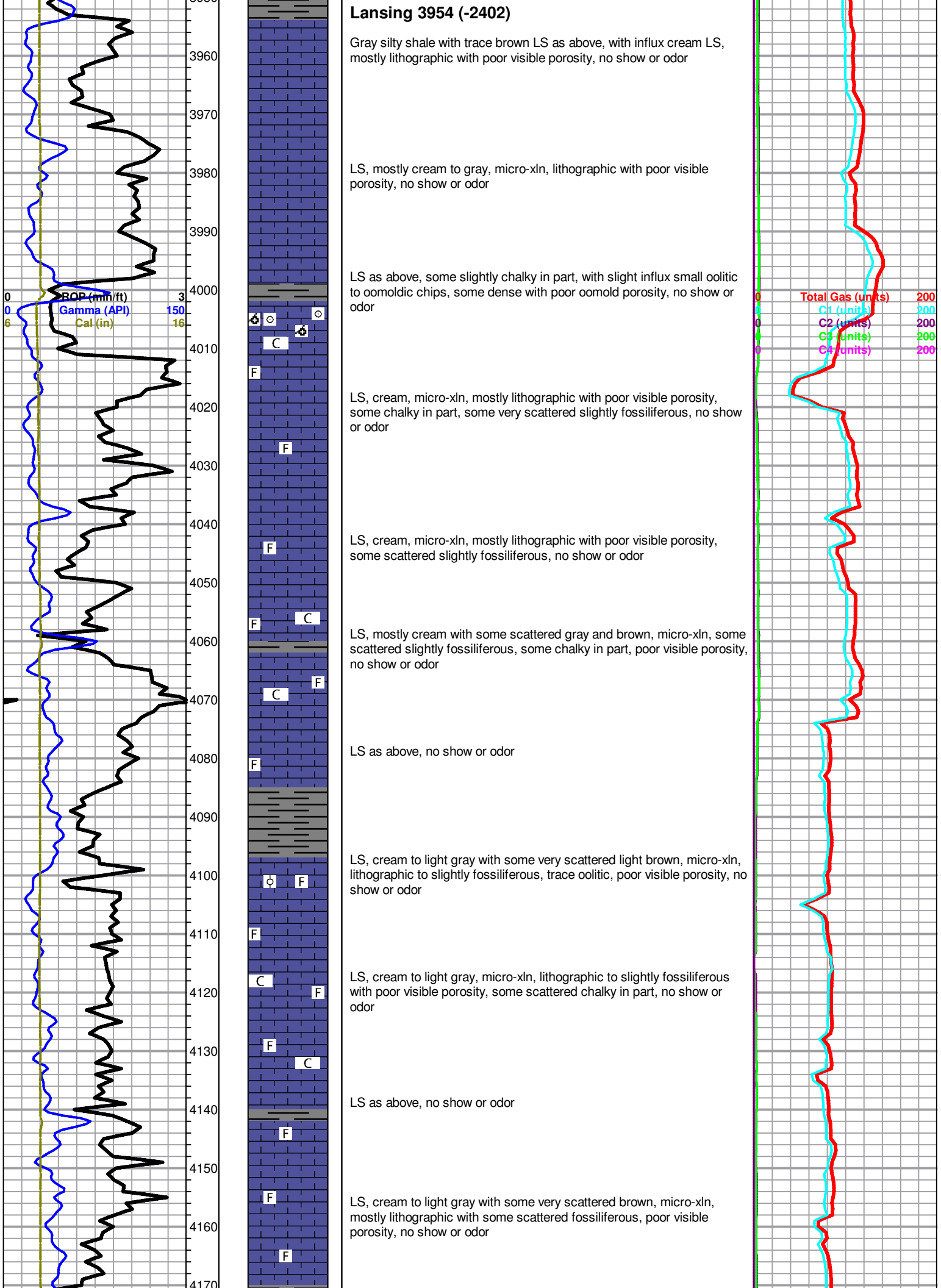
As above, no show or odor

As above, with some very scattered SS, clear to white, f-grained, sub-rounded and well sorted, friable, no show or odor

Mostly same as above, no show or odor

Gray shale with scattered gray to cream LS, with some very scattered


0 ROP (min/ft) 3
0 Gamma (API) 150
6 Cal (in) 16
3740
3750
3760
3770
3780
3790
3800
3810
3820
3830
3840
3850
3860
3870
3880
3890
3900
3910
3920
3930
3940
3950
F
F
F
Gray shale with scattered gray to cream LS, with some very scattered brown, dense with poor to no visible porosity, no show or odor
Mostly same as above, no show or odor
Heebner 3763 (-2211)
shale, black carbonaceous
Mostly gray shale with trace red, with scattered cream to gray and trace brown LS, no visible porosity, no show or odor
slight influx cream LS, micro-crypto xln, mostly lithographic with some very scattered slightly fossiliferous, poor visible porosity, no show or odor
Mostly gray shale and cream LS as above, no show or odor
LS, mostly cream with some scattered gray and trace brown, mostly lithographic, some very scattered slightly fossiliferous, poor visible porosity, no show or odor
Douglas 3848 (-2296)
LS as above, with slight influx gray shale, soft and waxy, no show or odor
shale, mostly gray with trace red, some soft and waxy, some silty
As above, with some very scattered SS, clear to white, vf-grained and well sorted, fairly dense, no show or odor
Shale, gray, mostly silty, some soft and waxy, with very scattered SS as above, no show or odor
Brown Lime 3941 (-2389)
Shale as above, with trace LS, brown, dense with no visible porosity
Survey @ 3773' = 1deg
0 Total Gas (units) 200
0 C1 (units) 200
0 C2 (units) 200
0 C3 (units) 200
0 C4 (units) 200



Lansing 3954 (-2402)

Gray silty shale with trace brown LS as above, with influx cream LS, mostly lithographic with poor visible porosity, no show or odor

LS, mostly cream to gray, micro-xln, lithographic with poor visible porosity, no show or odor

LS as above, some slightly chalky in part, with slight influx small oolitic to oomoldic chips, some dense with poor oomold porosity, no show or odor

LS, cream, micro-xln, mostly lithographic with poor visible porosity, some chalky in part, some very scattered slightly fossiliferous, no show or odor

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

LS, mostly cream with some scattered gray and brown, micro-xln, some scattered slightly fossiliferous, some chalky in part, poor visible porosity, no show or odor

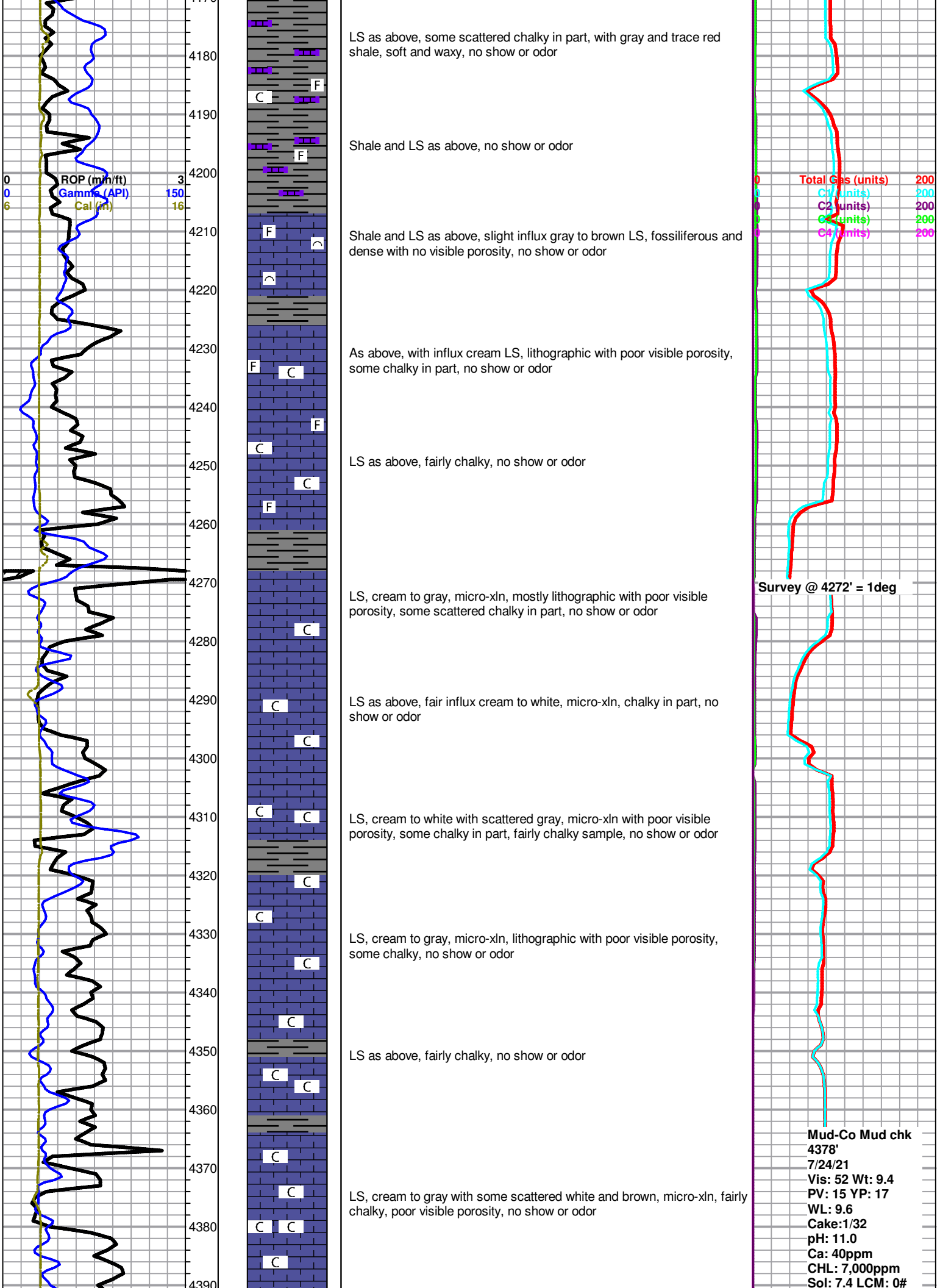
LS as above, no show or odor

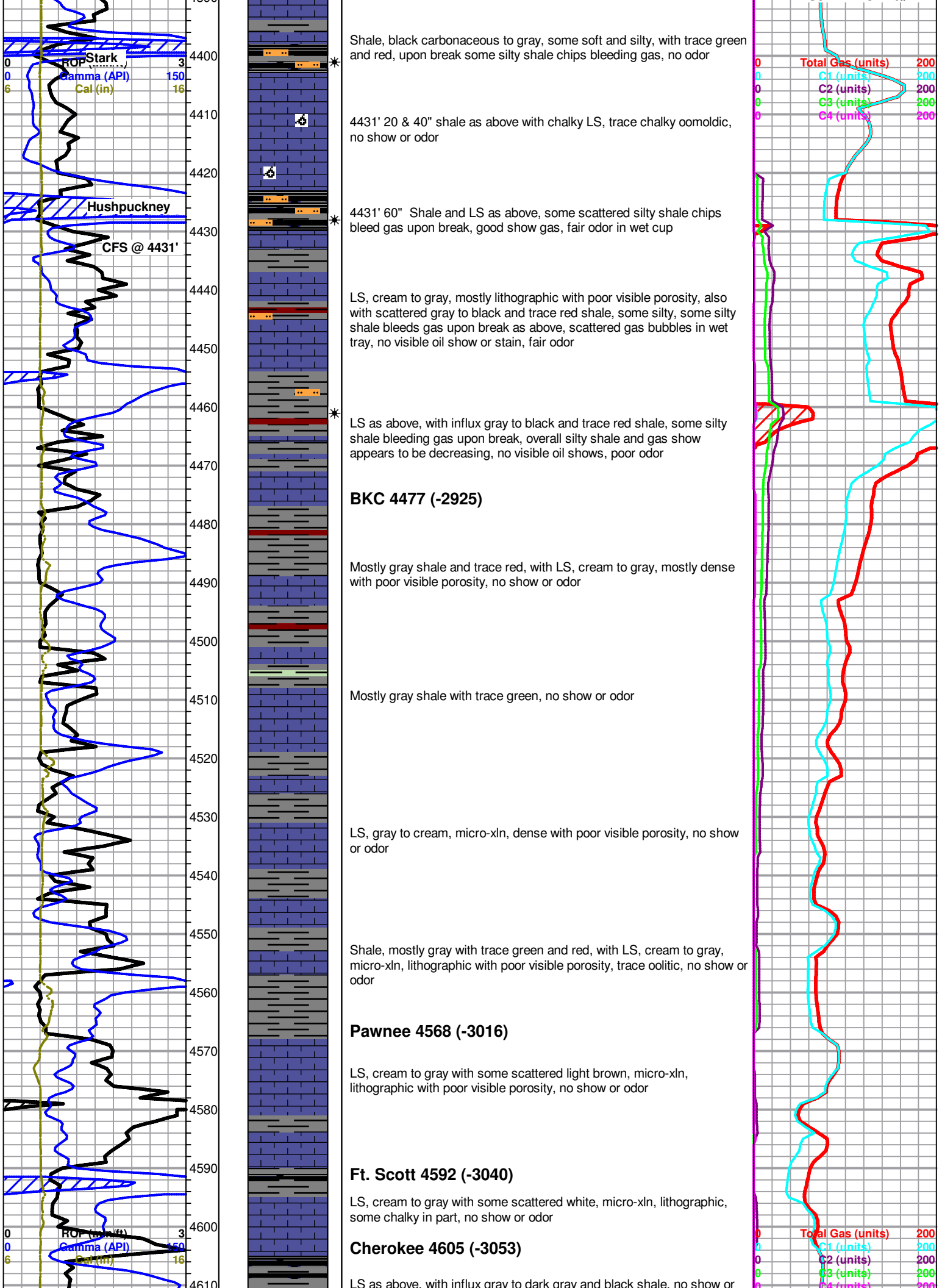
LS, cream to light gray with some very scattered light brown, micro-xln, lithographic to slightly fossiliferous, trace oolitic, poor visible porosity, no show or odor

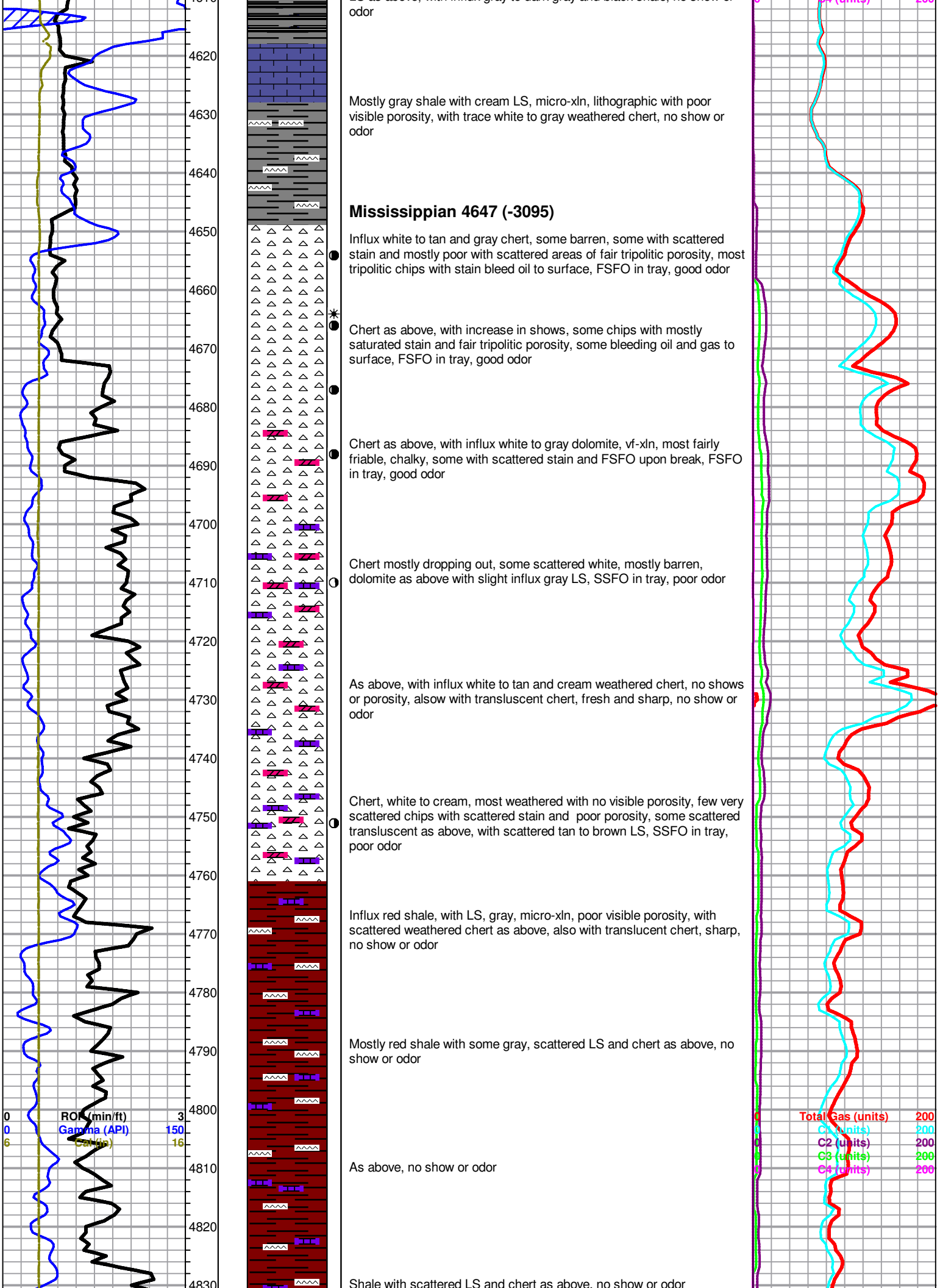
LS, cream to light gray, micro-xln, lithographic to slightly fossiliferous with poor visible porosity, some scattered chalky in part, no show or odor

LS as above, no show or odor

LS, cream to light gray with some very scattered brown, micro-xln, mostly lithographic with some scattered fossiliferous, poor visible porosity, no show or odor


0 ROP (min/ft) 3
0 Gamma (API) 150
6 Cal (in) 16
4180
4190
4200
4210
4220
4230
4240
4250
4260
4270
4280
4290
4300
4310
4320
4330
4340
4350
4360
4370
4380
4390
LS as above, some scattered chalky in part, with gray and trace red shale, soft and waxy, no show or odor
Shale and LS as above, no show or odor
Shale and LS as above, slight influx gray to brown LS, fossiliferous and dense with no visible porosity, no show or odor
As above, with influx cream LS, lithographic with poor visible porosity, some chalky in part, no show or odor
LS as above, fairly chalky, no show or odor
LS, cream to gray, micro-xln, mostly lithographic with poor visible porosity, some scattered chalky in part, no show or odor
LS as above, fair influx cream to white, micro-xln, chalky in part, no show or odor
LS, cream to white with scattered gray, micro-xln with poor visible porosity, some chalky in part, fairly chalky sample, no show or odor
LS, cream to gray, micro-xln, lithographic with poor visible porosity, some chalky, no show or odor
LS as above, fairly chalky, no show or odor
LS, cream to gray with some scattered white and brown, micro-xln, fairly chalky, poor visible porosity, no show or odor
0 Total Gas (units) 200
0 C1 (units) 200
0 C2 (units) 200
0 C3 (units) 200
0 C4 (units) 200
Survey @ 4272' = 1deg
Mud-Co Mud chk
4378'
7/24/21
Vis: 52 Wt: 9.4
PV: 15 YP: 17
WL: 9.6
Cake:1/32
pH: 11.0
Ca: 40ppm
CHL: 7,000ppm
Sol: 7.4 LCM: 0#


Stark
Hushpuckney
CFS @ 4431'
0 ROP (min/ft) 3
0 Gamma (API) 150
6 Cal (in) 16
4400
4410
4420
4430
4440
4450
4460
4470
4480
4490
4500
4510
4520
4530
4540
4550
4560
4570
4580
4590
4600
4610
0 Total Gas (units) 200
0 C1 (units) 200
0 C2 (units) 200
0 C3 (units) 200
0 C4 (units) 200
Shale, black carbonaceous to gray, some soft and silty, with trace green and red, upon break some silty shale chips bleeding gas, no odor
4431' 20 & 40" shale as above with chalky LS, trace chalky oomoldic, no show or odor
4431' 60" Shale and LS as above, some scattered silty shale chips bleed gas upon break, good show gas, fair odor in wet cup
LS, cream to gray, mostly lithographic with poor visible porosity, also with scattered gray to black and trace red shale, some silty, some silty shale bleeds gas upon break as above, scattered gas bubbles in wet tray, no visible oil show or stain, fair odor
LS as above, with influx gray to black and trace red shale, some silty shale bleeding gas upon break, overall silty shale and gas show appears to be decreasing, no visible oil shows, poor odor
BKC 4477 (-2925)
Mostly gray shale and trace red, with LS, cream to gray, mostly dense with poor visible porosity, no show or odor
Mostly gray shale with trace green, no show or odor
LS, gray to cream, micro-xln, dense with poor visible porosity, no show or odor
Shale, mostly gray with trace green and red, with LS, cream to gray, micro-xln, lithographic with poor visible porosity, trace oolitic, no show or odor
Pawnee 4568 (-3016)
LS, cream to gray with some scattered light brown, micro-xln, lithographic with poor visible porosity, no show or odor
Ft. Scott 4592 (-3040)
LS, cream to gray with some scattered white, micro-xln, lithographic, some chalky in part, no show or odor
Cherokee 4605 (-3053)
LS as above, with influx gray to dark gray and black shale, no show or



odor

Mostly gray shale with cream LS, micro-xln, lithographic with poor visible porosity, with trace white to gray weathered chert, no show or odor

Mississippian 4647 (-3095)

Influx white to tan and gray chert, some barren, some with scattered stain and mostly poor with scattered areas of fair tripolitic porosity, most tripolitic chips with stain bleed oil to surface, FSFO in tray, good odor

Chert as above, with increase in shows, some chips with mostly saturated stain and fair tripolitic porosity, some bleeding oil and gas to surface, FSFO in tray, good odor

Chert as above, with influx white to gray dolomite, vf-xln, most fairly friable, chalky, some with scattered stain and FSFO upon break, FSFO in tray, good odor

Chert mostly dropping out, some scattered white, mostly barren, dolomite as above with slight influx gray LS, SSFO in tray, poor odor

As above, with influx white to tan and cream weathered chert, no shows or porosity, alsow with transluscent chert, fresh and sharp, no show or odor

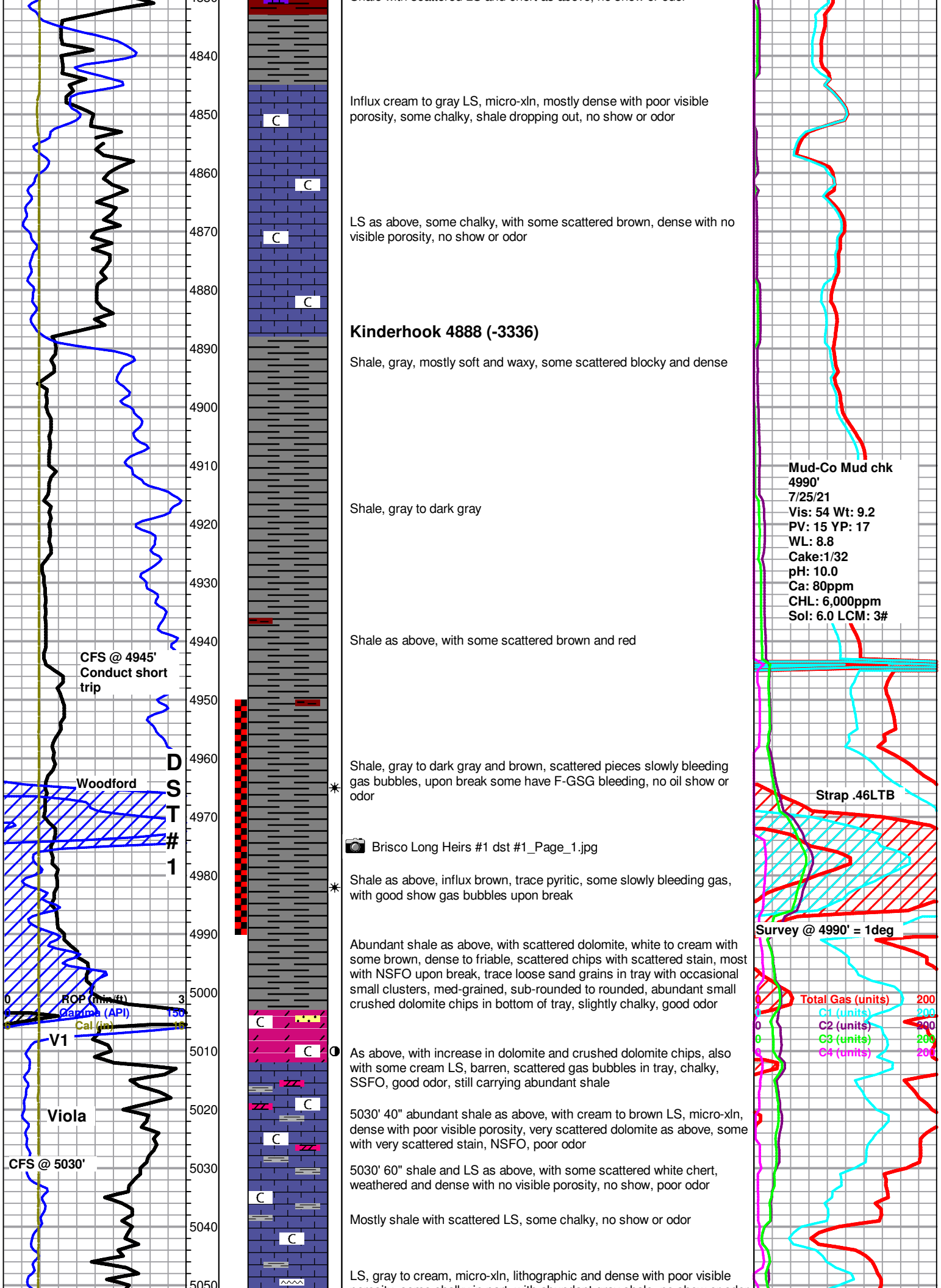
Chert, white to cream, most weathered with no visible porosity, few very scattered chips with scattered stain and poor porosity, some scattered transluscent as above, with scattered tan to brown LS, SSFO in tray, poor odor

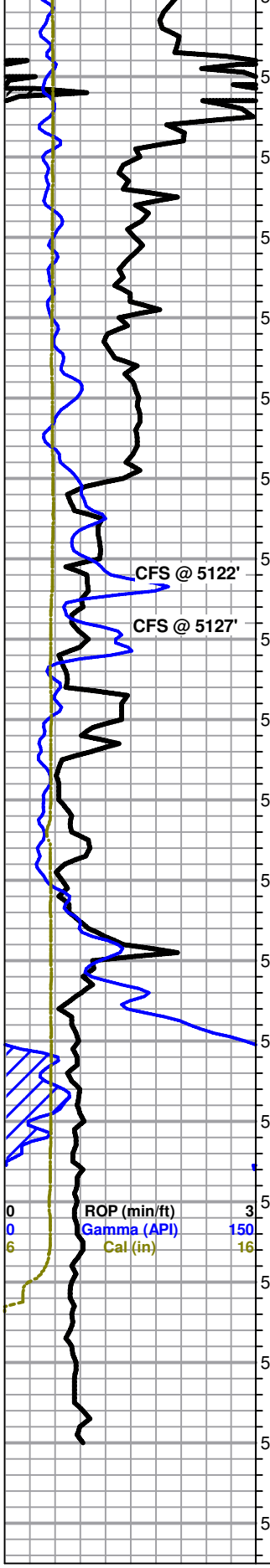
Influx red shale, with LS, gray, micro-xln, poor visible porosity, with scattered weathered chert as above, also with translucent chert, sharp, no show or odor

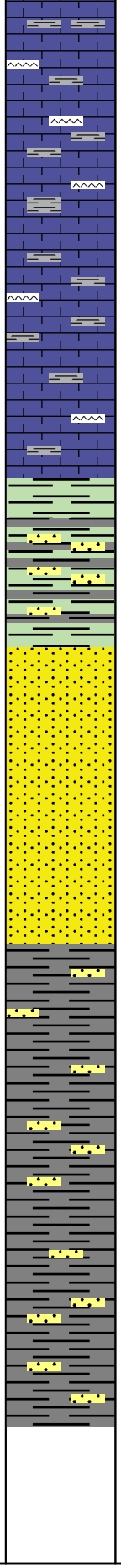
Mostly red shale with some gray, scattered LS and chert as above, no show or odor

As above, no show or odor

Shale with scattered LS and chert as above, no show or odor


4840
4850
4860
4870
4880
4890
4900
4910
4920
4930
4940
4950
4960
4970
4980
4990
5000
5010
5020
5030
5040
5050
CFS @ 4945'
Conduct short trip
Woodford
DST#1
ROP (min/ft)
Gamma (API)
Cal (in)
V1
Viola
CFS @ 5030'
Influx cream to gray LS, micro-xln, mostly dense with poor visible porosity, some chalky, shale dropping out, no show or odor
LS as above, some chalky, with some scattered brown, dense with no visible porosity, no show or odor
Kinderhook 4888 (-3336)
Shale, gray, mostly soft and waxy, some scattered blocky and dense
Shale, gray to dark gray
Shale as above, with some scattered brown and red
Shale, gray to dark gray and brown, scattered pieces slowly bleeding gas bubbles, upon break some have F-GSG bleeding, no oil show or odor
Brisco Long Heirs #1 dst #1_Page_1.jpg
Shale as above, influx brown, trace pyritic, some slowly bleeding gas, with good show gas bubbles upon break
Abundant shale as above, with scattered dolomite, white to cream with some brown, dense to friable, scattered chips with scattered stain, most with NSFO upon break, trace loose sand grains in tray with occasional small clusters, med-grained, sub-rounded to rounded, abundant small crushed dolomite chips in bottom of tray, slightly chalky, good odor
As above, with increase in dolomite and crushed dolomite chips, also with some cream LS, barren, scattered gas bubbles in tray, chalky, SSFO, good odor, still carrying abundant shale
5030' 40" abundant shale as above, with cream to brown LS, micro-xln, dense with poor visible porosity, very scattered dolomite as above, some with very scattered stain, NSFO, poor odor
5030' 60" shale and LS as above, with some scattered white chert, weathered and dense with no visible porosity, no show, poor odor
Mostly shale with scattered LS, some chalky, no show or odor
LS, gray to cream, micro-xln, lithographic and dense with poor visible
Mud-Co Mud chk
4990'
7/25/21
Vis: 54 Wt: 9.2
PV: 15 YP: 17
WL: 8.8
Cake:1/32
pH: 10.0
Ca: 80ppm
CHL: 6,000ppm
Sol: 6.0 LCM: 3#
Strap .46LTB
Survey @ 4990' = 1deg
Total Gas (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)





porosity, some chalky in part, with abundant gray shale, no show or odor

LS and shale as above, with scattered brown chert, no show or odor

As above, no show or odor

As above, with influx cream chalky LS, no show or odor

As above, no show or odor

LS, mostly cream, chalky, with some brown, micro-xln and dense with no visible porosity, with scattered brown and white chert, no show or odor

Simpson Shale 5111 (-3559)

5122' 30" As above, with gray and scattered green shale

5122' 60" shale as above, with very scattered SS, clear to gray with some white, f-med grained, sub-angular to sub-rounded and fairly well sorted, fairly well cemented, barren, upon break NSFO, some pyritic, some with scattered shale inclusions, poor fleeting odor

5127' 60" SS as above, with slight influx clear, med-grained, sub-rounded, well sorted, fairly well cemented, some fairly friable, appears barren, upon break NSFO, poor fleeting odor

abundant shale with SS as above, some med-grained, clear, sub-rounded and well sorted, friable, appear barren, upon break NSFO, poor fleeting odor

Shale, gray to dark gray with some scattered red and green, with scattered SS as above, no show or odor

vari-colored shales and scattered SS as above, no show or odor

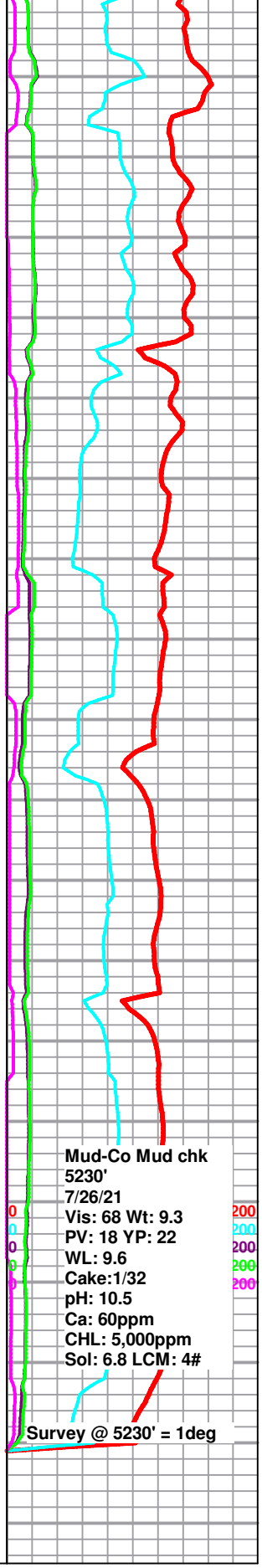
as above, no show or odor

shale, gray to dark gray with scattered green and trace red, with scattered SS, clear to gray, f-med grained, sub-rounded to rounded and well sorted, most well cemented and dense, some fairly friable, barren, NSFO upon brreak, no odor

5230' 30" mostly vari-colored shale, with scattered SS clusters, vf-med grained, shaley, chalky, with very scattered clean med-grained as above, no show or odor

5230' 60" as above, no show or odor

Rotary TD 5230' @ 0540hrs 7/26/21
ELI Services Logging TD @ 5233'
Complete Logging Operations @ 1330hrs 7/26/21



Mud-Co Mud chk
5230'
7/26/21
Vis: 68 Wt: 9.3
PV: 18 YP: 22
WL: 9.6
Cake:1/32
pH: 10.5
Ca: 60ppm
CHL: 5,000ppm
Sol: 6.8 LCM: 4#

Survey @ 5230' = 1deg

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Briscoe Petroleum, LLC

PO Box 6690
Sheridan Springs, Wy 82801

ATTN: Jeremy Schwartz

26 33s 12w Barber, Ks

Long Heirs #1

Job Ticket: 67492 **DST#: 1**

Test Start: 2021.07.25 @ 09:48:00

GENERAL INFORMATION:

Formation: **Woodford**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:14:45
Time Test Ended: 17:16:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 78

Interval: 4950.00 ft (KB) To 4990.00 ft (KB) (TVD)
Total Depth: 4990.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

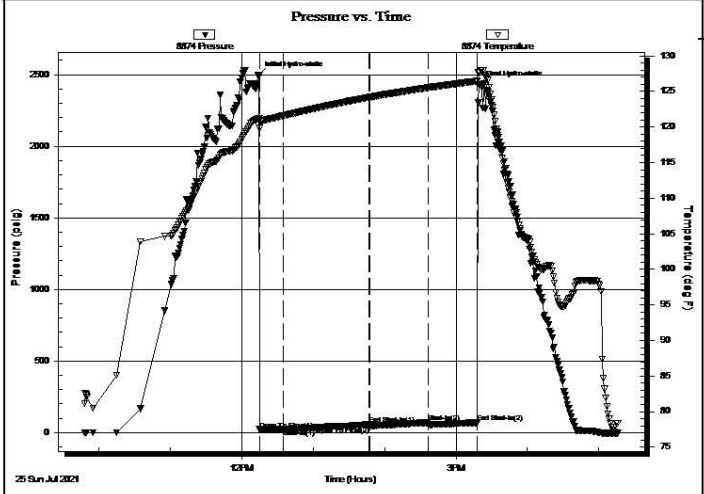
Reference Elevations: 1552.00 ft (KB)
1539.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 70.38 psig @ 4951.00 ft (KB)
Start Date: 2021.07.25 End Date: 2021.07.25
Start Time: 09:48:05 End Time: 17:16:29

Capacity: 8000.00 psig
Last Calib.: 2021.07.25
Time On Btm: 2021.07.25 @ 12:14:30
Time Off Btm: 2021.07.25 @ 15:19:30

TEST COMMENT: 30- IF: 1/4" blow .
60- ISI: No return.
30- FF: No blow .
60- FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2494.98	121.24	Initial Hydro-static
1	21.93	119.81	Open To Flow (1)
21	22.57	121.58	Shut-In(1)
93	56.00	124.16	End Shut-In(1)
93	46.09	124.17	Open To Flow (2)
142	70.38	125.52	Shut-In(2)
184	69.75	126.46	End Shut-In(2)
185	2433.16	127.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m (thick heavy)	0.07

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Briscoe Petroleum, LLC**

PO Box 6690
Sheridan Springs, WY 82801

ATTN: Jeremy Schwartz

Long Heirs #1

26-33s-12w Barber,KS

Start Date: 2021.07.25 @ 09:48:00
End Date: 2021.07.25 @ 17:16:30
Job Ticket #: 67492 DST #: 1

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

Printed: 2021.07.28 @ 10:06:18

DRILL STEM TEST REPORT

Briscoe Petroleum, LLC

PO Box 6690
Sheridan Springs, WY 82801

ATTN: Jeremy Schwartz

26-33s-12w Barber,KS

Long Heirs #1

Job Ticket: 67492 **DST#: 1**

Test Start: 2021.07.25 @ 09:48:00

GENERAL INFORMATION:

Formation: **Woodford**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:14:45
Time Test Ended: 17:16:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 78

Interval: 4950.00 ft (KB) To 4990.00 ft (KB) (TVD)
Total Depth: 4990.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

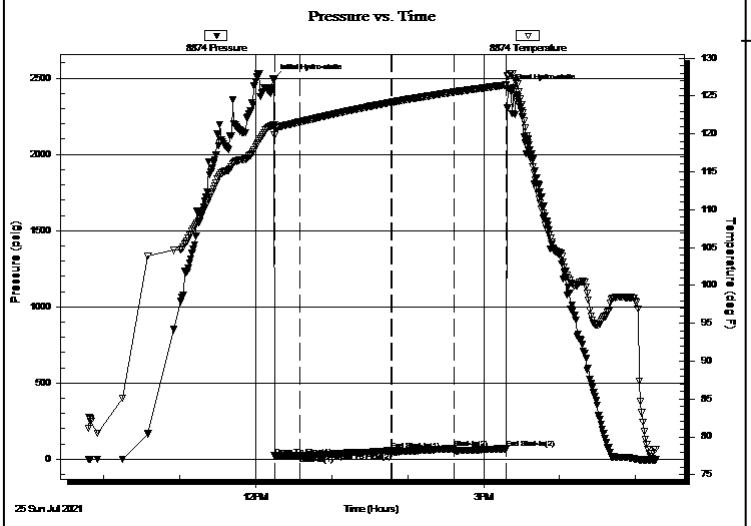
Reference Elevations: 1552.00 ft (KB)
1539.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 70.38 psig @ 4951.00 ft (KB)
Start Date: 2021.07.25 End Date: 2021.07.25
Start Time: 09:48:05 End Time: 17:16:29

Capacity: 8000.00 psig
Last Calib.: 2021.07.25
Time On Btm: 2021.07.25 @ 12:14:30
Time Off Btm: 2021.07.25 @ 15:19:30

TEST COMMENT: 30- IF: 1/4" blow .
60- ISI: No return.
30- FF: No blow .
60- FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2494.98	121.24	Initial Hydro-static
1	21.93	119.81	Open To Flow (1)
21	22.57	121.58	Shut-In(1)
93	56.00	124.16	End Shut-In(1)
93	46.09	124.17	Open To Flow (2)
142	70.38	125.52	Shut-In(2)
184	69.75	126.46	End Shut-In(2)
185	2433.16	127.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m (thick heavy)	0.07

Gas Rates

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

DRILL STEM TEST REPORT

Briscoe Petroleum, LLC

PO Box 6690
Sheridan Springs, WY 82801

ATTN: Jeremy Schwartz

26-33s-12w Barber,KS

Long Heirs #1

Job Ticket: 67492 **DST#: 1**

Test Start: 2021.07.25 @ 09:48:00

GENERAL INFORMATION:

Formation: **Woodford**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:14:45
Time Test Ended: 17:16:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 78

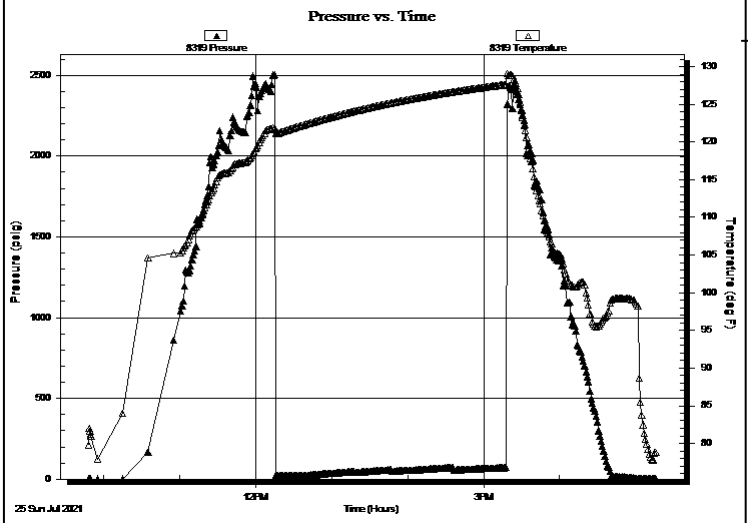
Interval: 4950.00 ft (KB) To 4990.00 ft (KB) (TVD)
Total Depth: 4990.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1552.00 ft (KB)
1539.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8319 **Outside**
Press@RunDepth: psig @ 4951.00 ft (KB)
Start Date: 2021.07.25 End Date: 2021.07.25
Start Time: 09:48:05 End Time: 17:16:29

Capacity: 8000.00 psig
Last Calib.: 2021.07.25
Time On Btm:
Time Off Btm:

TEST COMMENT: 30- IF: 1/4" blow .
60- ISI: No return.
30- FF: No blow .
60- FSI: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m (thick heavy)	0.07

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Briscoe Petroleum, LLC

PO Box 6690
Sheridan Springs, WY 82801

ATTN: Jeremy Schwartz

26-33s-12w Barber,KS

Long Heirs #1

Job Ticket: 67492 **DST#: 1**

Test Start: 2021.07.25 @ 09:48:00

Tool Information

Drill Pipe:	Length:	4938.00 ft	Diameter:	3.80 inches	Volume:	69.27 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
					Total Volume:	69.27 bbl	

Drill Pipe Above KB:	18.00 ft
Depth to Top Packer:	4950.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	40.00 ft
Tool Length:	70.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2500.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		75000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	62000.00 lb
	Final	62000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4921.00		
Shut In Tool	5.00		Fluid	4926.00		
Hydraulic tool	5.00			4931.00		
Em Tool	3.00			4934.00		
Jars	5.00			4939.00		
Safety Joint	2.00			4941.00		
Packer	5.00		Inside	4946.00	30.00	Bottom Of Top Packer
Packer	4.00			4950.00		
Stubb	1.00			4951.00		
Recorder	0.00	8874	Inside	4951.00		
Recorder	0.00	8319	Outside	4951.00		
Perforations	36.00			4987.00		
Bullnose	3.00			4990.00	40.00	Bottom Packers & Anchor
Total Tool Length:	**70.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Briscoe Petroleum, LLC

PO Box 6690
Sheridan Springs, WY 82801

ATTN: Jeremy Schwartz

26-33s-12w Barber,KS

Long Heirs #1

Job Ticket: 67492 **DST#: 1**

Test Start: 2021.07.25 @ 09:48:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

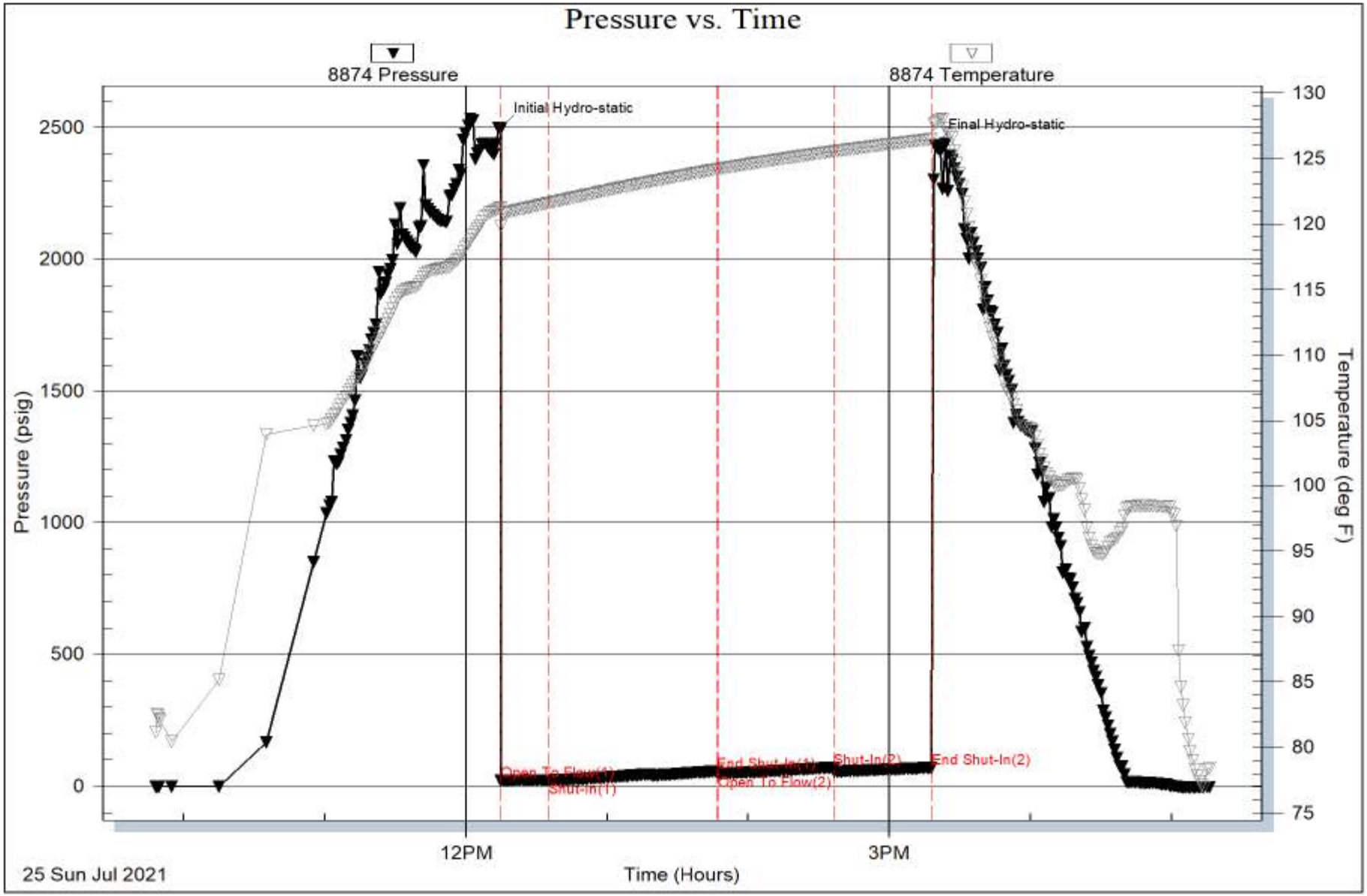
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m (thick heavy)	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

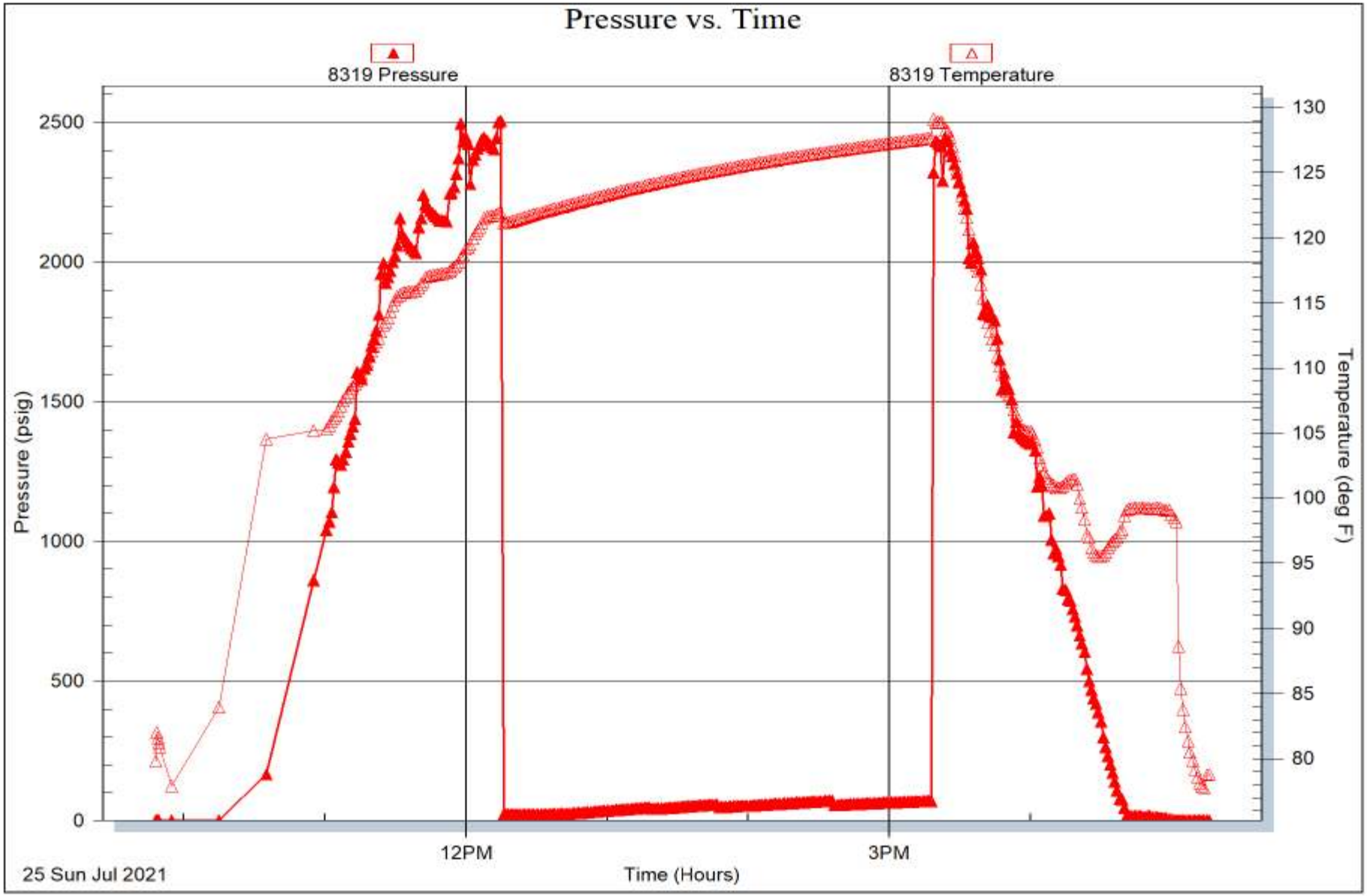
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8874 **Inside** Briscoe Petroleum, LLC Long Heirs #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 67492 Printed: 2021.07.28 @ 10:06:19

Serial #: 8319 **Outside** Briscoe Petroleum, LLC Long Heirs #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 67492 Printed: 2021.07.28 @ 10:06:19

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 67492

Well Name & No. Long Heirs #1 Test No. 1 Date 07/25/2021

Company Briscoe Petroleum, LLC Elevation 1552 KB 1539 GL

Address PO Box 6690

Co. Rep / Geo. Jeremy Schwartz Rig Duke #7

Location: Sec. 26 Twp 33s Rge. 12w Co. Barber State Ks

Interval Tested 4950 - 4990 Zone Tested Woodford

Anchor Length 40' Drill Pipe Run 4938 Mud Wt. 9.2

Top Packer Depth 4945 Drill Collars Run Ø Vis 54

Bottom Packer Depth 4950 Wt. Pipe Run Ø WL 8.8

Total Depth 4990 Chlorides 6000 ppm System LCM 3#

Blow Description IF: ¼" blow
ISI: No return.
FF: No blow.
FSI: No return.

Rec 5	Feet of mud (Heavy)	%gas	%oil	%water 100	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 5 BHT 126 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	2494	☒ Test	1300	T-On Location	0845
(B) First Initial Flow	21	☐ Jars	250	T-Started	0948
(C) First Final Flow	22	☒ Safety Joint	75	T-Open	1211
(D) Initial Shut-In	56	☐ Circ Sub		T-Pulled	1515
(E) Second Initial Flow	46	☐ Hourly Standby		T-Out	1717
(F) Second Final Flow	70	☒ Mileage x2	91rt 113.75	Comments	
(G) Final Shut-In	69	☐ Sampler			f/u Tool @ 500 7/26
(H) Final Hydrostatic	2433	☐ Straddle		☒ EM Tool	350 NS
		☒ Shale Packer	250	☐ Ruined Shale Packer	
Initial Open	30	☐ Extra Packer		☐ Ruined Packer	
Initial Shut-In	60	☐ Extra Recorder		☐ Extra Copies	
Final Flow	30	☐ Day Standby		Sub Total	0
Final Shut-In	60	☐ Accessibility		Total	1988.75
		Sub Total	1988.75	MP/DST Disc't	

Approved By _____ Our Representative _____

Hurricane Services, Inc.
250 N. ~~Water St.,~~ Suite #200
Wichita, KS 67202

Customer	BRISCOEPETROLEUM, LLC	Lease & Well #	LONG HEIRS 1			Date	7/19/2021
Service District	PRATT,KS	County & State	BARBER,KS	Legals S/T/R	26-33S-12W	Job #	
Job Type	8 5/8" SURFACE	☑ PROD ☐ INJ ☐ SWD		New Well?	☑ YES ☐ No	Ticket #	WP 1613

Equipment #	Driver
75	LESLEY
179-522	OSBORN
181-256	WHITFIELD

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☐ Lockout/Tagout	☐ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☐ Required Permits	☐ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☐ Slip/Trip/Fall Hazards	☑ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☐ Overhead Hazards	☑ Muster Point/Medical Locations
☑ Hearing Protection	☑ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

8 5/8" SURFACE PIPE

Product/ Service Code	Description	Unit of Measure	Quantity			Net Amount
CP070	60/40/2 Pozmix	sack	150.00			
CP100	Calcium Chloride	lb	387.00			
CP120	Cello-flake	lb	34.00			
FE250	8 5/8" Centralizer	ea	1.00			
M015	Light Equipment Mileage	mi	30.00			
M010	Heavy Equipment Mileage	mi	30.00			
M020	Ton Mileage	tm	194.00			
C010	Cement Pump Service	ea	1.00			

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

				Net:	
Total Taxable	$ -	Tax Rate:			
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.			Sale Tax:	$ -	
			Total:	$	

HSI Representative:

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. DISCLAIMER NOTICE: Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results fom the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well informaiton in determining taxable services.

X _____ **CUSTOMER AUTHORIZATION SIGNATURE**

ftv: 15-2021/01/25
mplv: 185-2021/07/12

NT TREATMENT REPORT

Customer:	BRISCOEPETROLEUM, LLC	Well:	LONG HEIRS 1	Ticket:	WP 1613
City, State:		County:	BARBER,KS	Date:	7/19/2021
Field Rep:	TIM ARELL	S-T-R:	26-33S-12W	Service:	8 5/8" SURFACE

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	235 ft
Casing Size:	8 5/8 in
Casing Depth:	215.47 ft
Tubing / Liner:	in
PLUG DEPTH:	195 ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	12.0 bbls

Calculated Slurry - Lead	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

Calculated Slurry - Tail	
Blend:	60/40/2 POZMIX
Weight:	14.8 ppg
Water / Sx:	5.2 gal / sx
Yield:	1.21 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	32.4 bbls
Total Sacks:	150 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
9:30PM			-	-	ON LOCATION - SPOT EQUIPMENT - RIG UP
11:00PM				-	RUN 5 JTS 8 5/8" X 32# CASING
				-	CENTRALIZER- MIDDLE OF 1ST JOINT
11:40PM				-	CASING ON BOTTOM
11:45PM				-	BREAK CIRCULATION WITH RIG PUMP
11:48PM	5.0	200.0	10.0	10.0	H2o AHEAD
11:50PM	5.0	100.0	32.4	42.4	MIX 150 SKS 60/40/2 POZMIX @ 14.8 PPG
11:56PM	5.0	100.0	-	42.4	START DISPLACEMENT
11:58PM	4.0	200.0	8.0	50.4	SLOW RATE
12:00AM	3.0	250.0	12.0	62.4	CEMENT @ DESIRED DEPTH
				62.4	CIRCULATION THRU JOB
					CULATED 10 BBL TO PIT
					JOB COMPLETE,
					THANKS- KEVEN AND CREW

	CREW	UNIT
Cementer:	LESLEY	75
Pump Operator:	OSBORN	179-522
Bulk #1:	WHITFIELD	181-256
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.4 bpm	170 psi	62 bbls

ftv: 15-2021/01/25
mplv: 185-2021/07/12

Hurricane Services, Inc.
250 N. Water St., Suite #200
Wichita, KS 67202

Customer	BRISCOEPETROLEUM, LLC	Lease & Well #	LONG HEIRS 1			Date	7/27/2021
Service District	PRATT,KS	County & State	BARBER,KS	Legals S/T/R	26-33S-12W	Job #	
Job Type	LONGSTRING	☑ PROD ☐ INJ ☐ SWD		New Well?	☑ YES ☐ No	Ticket #	WP 1645

Equipment #	Driver
75	LES LEY
176-521	OSBORN
181-256	VALDEZ

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☐ Lockout/Tagout	☐ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☐ Required Permits	☐ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☐ Slip/Trip/Fall Hazards	☑ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☐ Overhead Hazards	☑ Muster Point/Medical Locations
☑ Hearing Protection	☑ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure				Net Amount
CP014	H-LD Cement Blend	sack	125.00			
CP055	H-Plug	sack	100.00			
CP120	Cello-flake	lb	31.00			
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00			
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00			
FE132	5 1/2" Stop Ring	ea	1.00			
FE135	5 1/2 Turbolizer	ea	12.00			
AF056	Liquid KCL Substitute 2	gal	5.00			
M015	Light Equipment Mileage	mi	30.00			
M010	Heavy Equipment Mileage	mi	30.00			
M020	Ton Mileage	tm	303.00			
C015	Cement Pump Service	ea	1.00			
C050	Cement Plug Container	job	1.00			

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

Total Taxable	$ -	Tax Rate:	Net:	
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.			Sale Tax:	$ -
			Total:	$

HSI Representative: *Keven Lesley*

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. DISCLAIMER NOTICE: Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results fom the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well informaiton in determining taxable services.

X _____ CUSTOMER AUTHORIZATION SIGNATURE

ftv: 15 2021/01/25
mplv: 185 2021/07/12

CEMENT TREATMENT REPORT

Customer:	BRISCOEPETROLEUM, LLC	**Well:**	LONG HEIRS 1	**Ticket:**	WP 1645
City, State:		**County:**	BARBER,KS	**Date:**	7/27/2021
Field Rep:	RICK BRISCOE	**S-T-R:**	26-33S-12W	**Service:**	LONGSTRING

Downhole Information		
Hole Size:	7 7/8 in	
Hole Depth:	5230 ft	
Casing Size:	5 1/2 in	17#
Casing Depth:	5216.18 ft	
Shoe Jt.:	43 1/7 in	
PLUG DEPTH:	5173.04 ft	
Tool / Packer:		
Tool Depth:	ft	
Displacement:	120.0 bbls	

Calculated Slurry - Lead	
Blend:	SCAVENGER
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	12.0 bbls
Total Sacks:	50 sx

Calculated Slurry - Tail	
Blend:	H-LD CEMENT BLEND
Weight:	15 ppg
Water / Sx:	5.9 gal / sx
Yield:	1.49 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	33.1 bbls
Total Sacks:	125.0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
8:00AM				-	ON LOCATION - SPOT EQUIPMENT - RIG UP
11:20AM				-	RUN 5 1/2" x 17# CASING
				-	CENTRALIZER- MIDDLE OF 1, THEN 3,5,7,9,11,13,15,17,19,21,23
1:30PM				-	CASING ON BOTTOM
1:40PM				-	BREAK CIRCULATION WITH RIG PUMP
3:10PM	2.0		7.0	7.0	PLUG RATHOLE
3:15PM	2.0		5.0	12.0	PLUG MOUSEHOLE
3:18PM				12.0	HOOK BACK UP TO 5 1/2" CASING
3:19PM	5.0	400.0	12.0	24.0	MIX 50 SKS SCAVENGER @ 13.8 PPG
3:23PM	5.0	200.0	33.1	57.1	MIX 125 SKS H-LD BLEND @ 15 PPG
3:45PM				57.1	SHUT DOWN- CLEAR PUMP AND LINES-DROP LATCH DOWN PLUG
3:50PM	6.0	150.0	-		START DISPLACEMENT WITH 2% KCL WATER
4:00PM	5.0	325.0	60.0		LIFT PRESSURE
4:10PM	4.0	950.0	110.0		SLOW RATE
4:15PM	3.0	1,500.0	120.0		PLUG DOWN - HELD
					CIRCULATION THRU JOB
					WASH UP PUMP TRUCK
					JOB COMPLETE,
					THANKS- KEVEN AND CREW

	CREW	UNIT
Cementer:	LESLEY	75
Pump Operator:	OSBORN	176-521
Bulk #1:	VALDEZ	181-256
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.0 bpm	588 psi	347 bbls

ftv: 15-2021/01/25
mplv: 185-2021/07/12

SPS
Job Log

Customer:	Briscoe Petroleum		SR No.:	AM9232101	Date: 9/23/2021
Well Name:	Long Heirs 1		Field:	N/A	Well Type: Vertical
County:	Barber	State: Kansas	Stage:	1	Max PSI: 3200
Type of Job:	20# XL Borate		Treater:	Adam Moore	Formation: N/A

EVENT # Substage	Event/Start Date & Time (in 24 Hr Format)	Event Type	Event Description	Wellhead Pressure	Clean Volume	Fluid	Proppant	Prop Conc.	Prop Volume	Slurry Volume	Slurry Rate Start (bpm)	Slurry Rate End (bpm)	Slurry Rate Avg (bpm)
1	2:00 PM	Pressure	Pressure Test	4250		20# Gel							
2	2:04 PM	Open	Open Well	0	0	15%HCl						11.25	
3	2:08 PM	Swap	Swap to 20# Gel	0	25.7	20# Gel				26	11.25	12	
4	2:10 PM	Loaded	Well Loaded	200	84	20# Gel				84	12	12.3	
5	2:11 PM	Rate	At Rate	1070	95	20# Gel				95	12.3	20.74	
6	2:15 PM	Xlink	Started Xlink	1070	105	20# XL				105	20.74	20.81	
7	2:16 PM	Sand	Started Sand	1080	131	20# XL	20/40	1	2660	134	20.81	20.8	
8	2:17 PM	Rate	Increased Rate	1100	140	20# XL				143	20.8	28.86	
9	14:19 PM	Sand	Increased Sand Con,	1120	202	20# XL	20/40	2	3280	209	28.86	31.4	
10	2:20 PM	Sand	Increased Sand Con,	940	242	20# XL	20/40	3	5740	256	31.4	31.4	
11	2:22 PM	Sand	Increased Sand Con,	860	289	20# XL	20/40	4	7680	305	31.4	31.5	
12	2:24 PM	Sand	Increased Sand Con,	800	335	20# XL	20/40	5	9680	360	31.5	31.6	
13	2:26 PM	Sand	Increased Sand Con,	750	381	20# XL	16/30	6	13880	417	31.6	31.5	
14	14:28 PM	Sand	Cut Sand	730	437	20# XL				488	31.5	31.3	
15	14:29 PM	Flush	On Flush	830	453	Water				505	31.3	20.8	
16	14:30 PM	Rate	Decreased Rate	850	487	Water				539	20.8	14.3	
17	14:34 PM	Shutdown	Shutdown	1340	583	Water				635	14.3		

FLUID ADDITIVES

Chemical Name	Design	Used
LB-1	6	10
W-11	6	10
KCL	21	25
LG-1	105	97
XL-B	24	24
BREAKER	630 oz	630 oz
A-1	1	1
IS-10	3	3
HNE	2	2
CLA	1	1
0		
0		

PROPPANT DESCRIPTION

PROP	Design	Used
20/40	28100	29040
16/30	1200	13880
0		
0		
0		
0		

SHUT-IN PRESSURES

ISIP	930
5 Min	790
10 Min	740
15 Min	700

PROPPANT VOLUMES

Conc.	Size	lbs	BBLS
1	20/40	2660	70.7
2	20/40	3280	40
3	20/40	5740	46.3
4	20/40	7680	46.3
5	20/40	9680	46.2
6	16/30	13880	56

Rate and PSI		
Ave Rate	23.37067	
Max Rate	31.6	
Pad Rate		
Sand Rate		
Flush Rate		
Ave PSI	796.25	
Max PSI	1340	
PSI Pad		
PSI Sand		
PSI Flush		
Break		

FLUID TYPE AND VOLUME

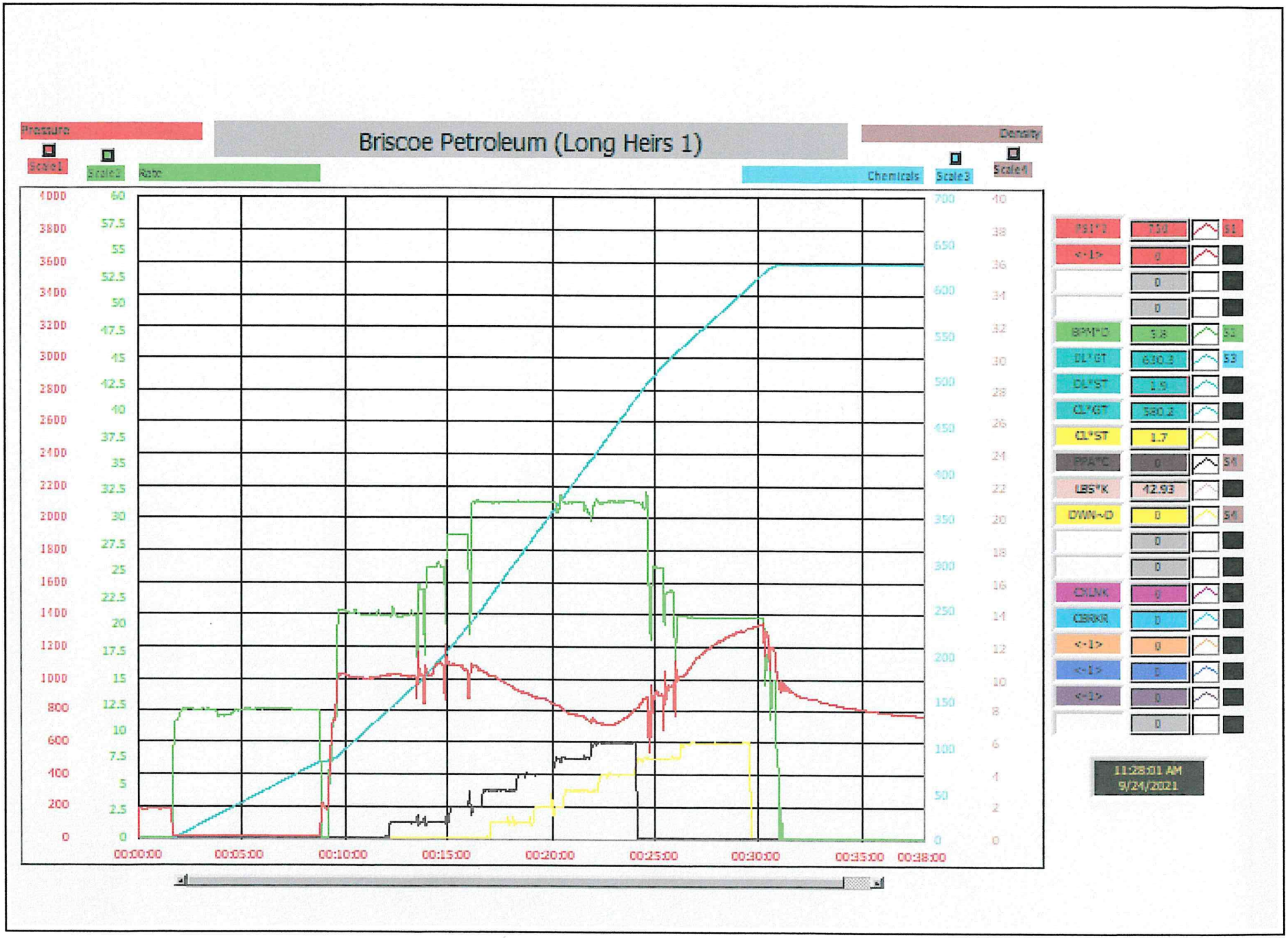
fluid type	Design	Used
15%HCl	24	25
20# GEL	24	80
20# XL	326	400
WATER	129	130
0		
0		
0		
0		
0		
0		
0		
0		

CASING & TUBULAR DATA

Tubular	Size	Wt	Grade	Top	Bottom	Capacity
Casing	5.5	17#		5006'	5016'	116 bbl
Casing						

Comments

Printed on 9/24/2021 at 11:28 AM



C:\Users\dci\Desktop\well bore\Briscoe Petroleum (Long Heirs 1).job
Thu Sep 23, 2021

TVD	Vrt Vol	Tot Lng	Tot Vol	Sur Vol
5016.00	116.611	5016.02	116.612	5.00

LEGEND
S = Start F = Formation E = Event

TIME	PPA	--- PRES --- STP	HYD P	-- CLEAN -- BPM	TOTAL	-- DIRTY -- BPM	TOTAL	SAND TOTAL	--- STAGE TOTALS --- PPA	CLEAN	DIRTY	SAND
14:04:18 S	0.00	0	2175	0.00	0	0.00	0	0.0	0.00	0.0	0.0	0.00
14:08:23 S	0.00	0	2175	11.25	26	11.42	26	0.0	0.00	25.7	26.4	0.00
14:15:35 F	0.00	0	2175	20.74	119	20.94	122	0.0				
14:16:11 S	1.00	0	2175	20.81	131	20.87	134	0.0	0.00	105.8	107.9	0.01
14:16:51 F	0.00	0	2176	19.98	145	21.01	148	0.3				
14:19:28 S	2.00	0	2257	27.19	202	28.43	209	2.7	1.00	70.7	74.4	2.66
14:20:58 S	3.00	0	2360	28.86	242	31.46	252	5.9	2.00	40.0	43.7	3.28
14:21:05 F	1.00	0	2368	27.85	246	31.48	256	6.3				
14:22:38 S	4.00	0	2491	27.60	289	31.49	305	11.7	3.00	46.3	52.7	5.74
14:23:26 F	2.00	0	2567	26.56	310	31.51	330	15.2				
14:24:22 S	5.00	0	2633	26.58	335	31.56	360	19.4	4.00	46.3	54.9	7.68
14:24:50 F	3.00	0	2670	26.18	347	31.64	375	21.9				
14:26:10 S	6.00	0	2758	24.78	381	30.47	417	29.0	5.00	46.2	56.8	9.68
14:26:30 F	4.00	0	2781	25.12	389	31.83	427	31.0				
14:28:13 F	5.00	0	2884	24.77	432	31.62	482	41.8				
14:28:25 S	0.00	0	2893	24.73	437	31.56	488	42.9	6.00	56.0	71.5	13.88
14:28:56 S	0.00	0	2834	32.20	453	31.39	505	42.9	0.00	15.9	16.3	0.00
14:30:24 F	6.00	0	2642	20.58	487	20.81	539	42.9				
14:33:49 F	0.00	0	2177	20.59	558	20.73	610	42.9				
14:34:36 F	0.00	0	2175	17.39	575	14.38	626	42.9				
14:42:30 S	0.00	0	2175	0.00	583	0.00	635	42.9	0.00	130.4	130.4	0.00
11:29:36 S	0.00	0	2601	0.00	0	0.00	0	0.0	0.00	0.0	0.0	0.00