

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

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 #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

| | | | | | |
|---|--|---------|-------------|---------------|---------|
| Date of first Production/Injection or Resumed Production/Injection: | Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ | | | | |
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |

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

| Shots Per Foot | Perforation Top | Perforation Bottom | Bridge Plug Type | Bridge Plug Set At | Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i> |
|----------------|-----------------|--------------------|------------------|--------------------|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | | | | |
|----------------|-------|---------|------------|--|
| TUBING RECORD: | Size: | Set At: | Packer At: | |
|----------------|-------|---------|------------|--|



Company: Schaben Oil LLC
Lease: KT Schaben #2-31

SEC: 31 TWN: 19S RNG: 21W
 County: NESS
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 10
 Elevation: 2285 EGL
 Field Name: Schaben
 Pool: Infield
 Job Number: 107

DATE
 February
10
 2018

DST #2 **Formation: Miss** **Test Interval: 4429 - 4438'** **Total Depth: 4438'**
 Time On: 09:04 02/10 Time Off: 17:30 02/10
 Time On Bottom: 11:32 02/10 Time Off Bottom: 14:32 02/10

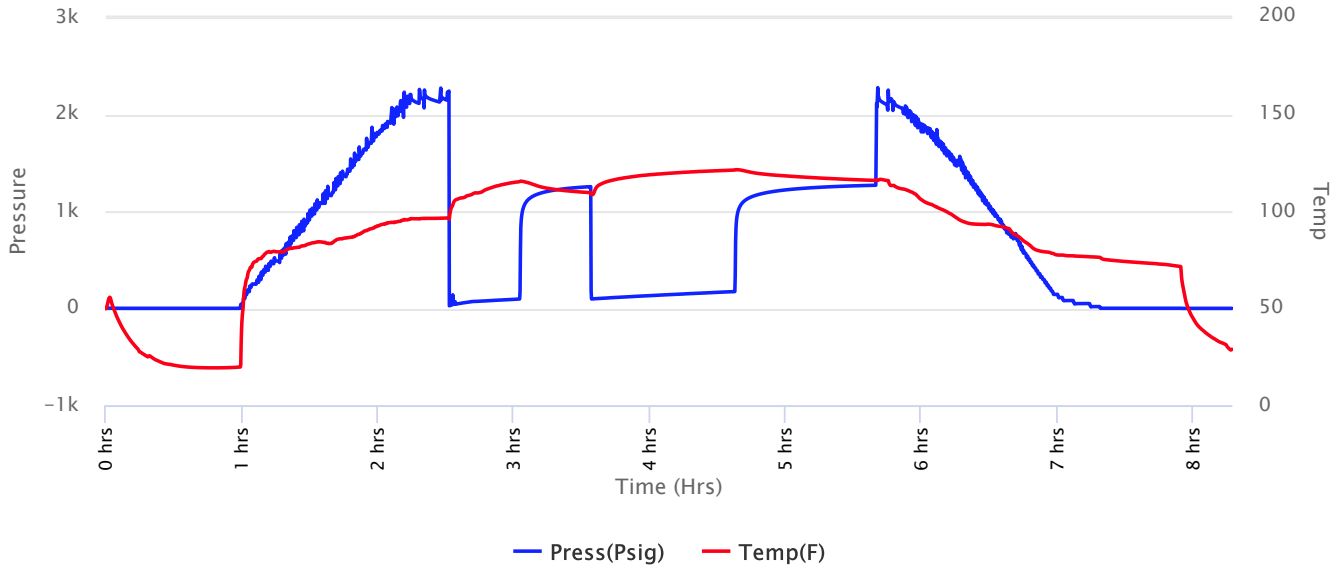
Electronic Volume Estimate:
 319'

1st Open
 Minutes: 30
 8.8" at 30 min

1st Close
 Minutes: 30
 .6" at 30 min

2nd Open
 Minutes: 60
 11.2" at 60 min

2nd Close
 Minutes: 60
 .5" at 60 min





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 Time On: 09:04 02/10 Time Off: 17:30 02/10
 Time On Bottom: 11:32 02/10 Time Off Bottom: 14:32 02/10

Recovered

| Foot | BBLs | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|------|-----------|----------------------|-------|-------|---------|-------|
| 20 | 0.2846 | G | 100 | 0 | 0 | 0 |
| 22 | 0.31306 | O | 0 | 100 | 0 | 0 |
| 146 | 2.07758 | SLOCM | 0 | 1 | 0 | 99 |
| 62 | 0.8747189 | SLOCHMCW | 0 | 1 | 65 | 34 |
| 118 | 0.58056 | SLOCSLMCW | 0 | 1 | 89 | 10 |

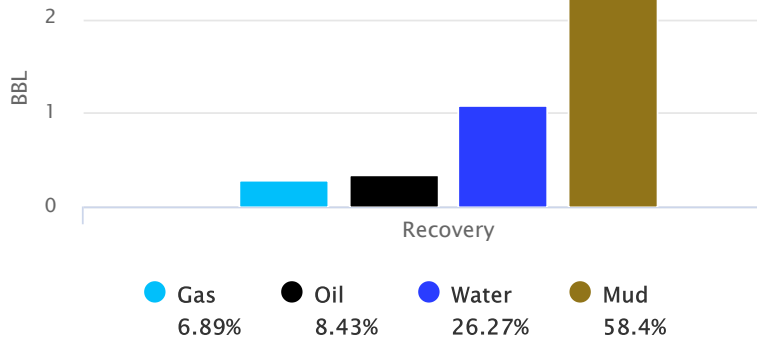
Total Recovered: 368 ft
 Total Barrels Recovered: 4.1305189

Reversed Out
 NO

Initial Hydrostatic Pressure 2127 PSI
 Initial Flow 25 to 96 PSI
Initial Closed in Pressure 1255 PSI
 Final Flow Pressure 96 to 172 PSI
Final Closed in Pressure 1269 PSI
 Final Hydrostatic Pressure 2125 PSI
 Temperature 122 °F

 Pressure Change Initial 0.0 %
 Close / Final Close

Recovery at a glance





Company: Schaben Oil LLC
Lease: KT Schaben #2-31

SEC: 31 TWN: 19S RNG: 21W
County: NESS
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 10
Elevation: 2285 EGL
Field Name: Schaben
Pool: Infield
Job Number: 107

| |
|--|
| DATE February 10 2018 |
|--|

| | | | |
|---------------|-----------------------------|--|---------------------------|
| DST #2 | Formation: Miss | Test Interval: 4429 - 4438' | Total Depth: 4438' |
| | Time On: 09:04 02/10 | Time Off: 17:30 02/10 | |
| | Time On Bottom: 11:32 02/10 | Time Off Bottom: 14:32 02/10 | |

REMARKS:

- 1O. 1/2 Blow. Built to 8 3/4 inch in 30 mins
- 1C. 1/2 BB
- 2O. 1/2 Blow. Built to 11 1/2 in 60 mins
- 2C. 1/2 BB

Tool Sample: 5 % O 90% W 5 % M

Gravity: 35 @ 60 degrees F

Ph: 7

RW: .8 @ 10 degrees F

Chlorides: 12,000 ppm



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 Rig 10
 Elevation: 2285 EGL
 Field Name: Schaben
 Pool: Infield
 Job Number: 107

| |
|---|
| <p>DATE February 10 2018</p> |
|---|

DST #2 **Formation: Miss** **Test Interval: 4429 - 4438'** **Total Depth: 4438'**

Time On: 09:04 02/10 Time Off: 17:30 02/10
 Time On Bottom: 11:32 02/10 Time Off Bottom: 14:32 02/10

Down Hole Makeup

| | |
|--|---------------------------------|
| Heads Up: 21.67 FT | Packer 1: 4424 FT |
| Drill Pipe: 4299.29 FT <i>ID-3 1/2</i> | Packer 2: 4429 FT |
| Weight Pipe: 0 FT <i>ID-2 7/8</i> | Top Recorder: 4413.42 FT |
| Collars: 118.81 FT <i>ID-2 1/4</i> | Bottom Recorder: 4431 FT |
| Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i> | Well Bore Size: 7 7/8 |
| Total Anchor: 9 | Surface Choke: 1" |
| <u>Anchor Makeup</u> | Bottom Choke: 5/8" |
| Packer Sub: 1 FT | |
| Perforations: (top): 0 FT <i>4 1/2-FH</i> | |
| Change Over: 0 FT | |
| Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i> | |
| Change Over: 0 FT | |
| Perforations: (below): 8 FT <i>4 1/2-FH</i> | |



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County: NESS
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Rig 10
Elevation: 2285 EGL
Field Name: Schaben
Pool: Infield
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| DATE February 10 2018 |
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Time On: 09:04 02/10 Time Off: 17:30 02/10
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Mud Properties

Mud Type: Chem **Weight:** 9.3 **Viscosity:** 52 **Filtrate:** 10 **Chlorides:** 9100 ppm



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Rig 10
Elevation: 2285 EGL
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Time On: 09:04 02/10 Time Off: 17:30 02/10
Time On Bottom: 11:32 02/10 Time Off Bottom: 14:32 02/10

Gas Volume Report

1st Open

2nd Open

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|



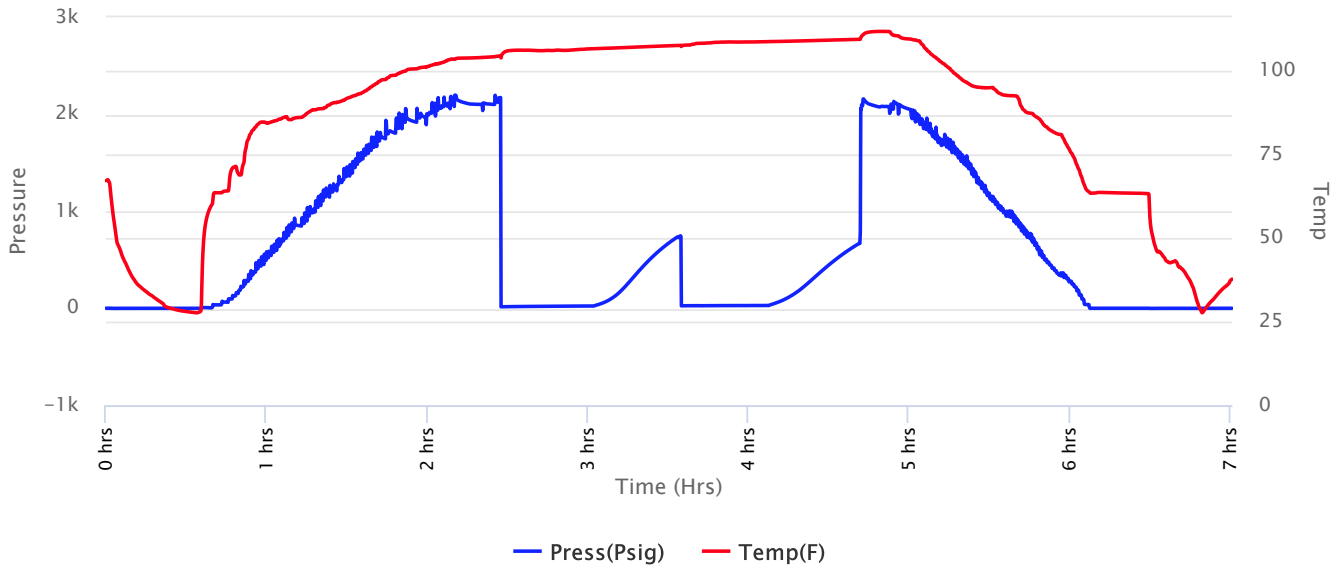
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Lease: KT Schaben #2-31

SEC: 31 TWN: 19S RNG: 21W
 County: NESS
 State: Kansas
 Drilling Contractor: WW Drilling, LLC -
 Rig 10
 Elevation: 2285 EGL
 Field Name: Schaben
 Pool: Infield
 Job Number: 107

DATE
 February
09
 2018

DST #1 **Formation: Miss** **Test Interval: 4355 - 4430'** **Total Depth: 4430'**
 Time On: 19:45 02/09 Time Off: 02:35 02/10
 Time On Bottom: 22:08 02/09 Time Off Bottom: 00:08 02/09

| | | | | |
|------------------------------------|---|---|--|---|
| Electronic Volume Estimate: 26' | <u>1st Open</u> Minutes: 30 .8" at 30 min | <u>1st Close</u> Minutes: 30 0" at 30 min | <u>2nd Open</u> Minutes: 30 0" at 30 min | <u>2nd Close</u> Minutes: 30 0" at 30 min |
|------------------------------------|---|---|--|---|





Company: Schaben Oil LLC
Lease: KT Schaben #2-31

SEC: 31 TWN: 19S RNG: 21W
 County: NESS
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 10
 Elevation: 2285 EGL
 Field Name: Schaben
 Pool: Infield
 Job Number: 107

DATE
 February
09
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DST #1 **Formation: Miss** **Test Interval: 4355 - 4430'** **Total Depth: 4430'**
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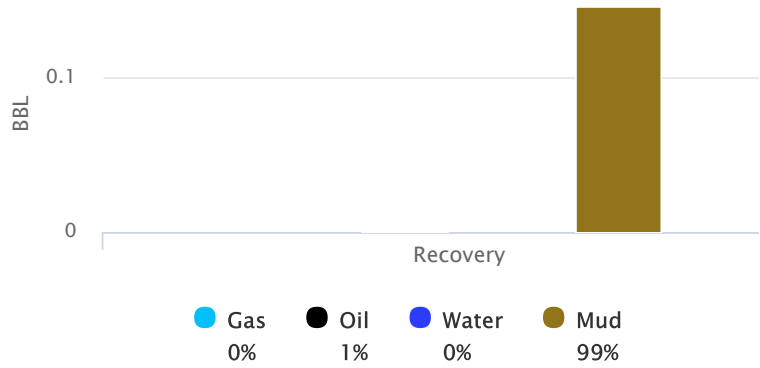
Recovered

| Foot | BBLs | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|------|--------|----------------------|-------|-------|---------|-------|
| 30 | 0.1476 | SLOCM | 0 | 1 | 0 | 99 |

Total Recovered: 30 ft
 Total Barrels Recovered: 0.1476

Reversed Out
 NO

Recovery at a glance



| | | |
|---|------------|------------|
| Initial Hydrostatic Pressure | 2124 | PSI |
| Initial Flow | 15 to 25 | PSI |
| Initial Closed in Pressure | 748 | PSI |
| Final Flow Pressure | 25 to 29 | PSI |
| Final Closed in Pressure | 669 | PSI |
| Final Hydrostatic Pressure | 2125 | PSI |
| Temperature | 110 | °F |
| Pressure Change Initial Close / Final Close | 10.6 | % |



Company: Schaben Oil LLC
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SEC: 31 TWN: 19S RNG: 21W
County: NESS
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 10
Elevation: 2285 EGL
Field Name: Schaben
Pool: Infield
Job Number: 107

| |
|--|
| <p>DATE February 09 2018</p> |
|--|

DST #1 **Formation: Miss** **Test Interval: 4355 -**
4430' **Total Depth: 4430'**

Time On: 19:45 02/09 Time Off: 02:35 02/10
Time On Bottom: 22:08 02/09 Time Off Bottom: 00:08 02/09

REMARKS:

- 10. WSB. Built to 3/4 inch
- 1C. NOBB
- 2O. NO Blow
- 2C. NOBB

Tool Sample: 1%O 99% M

Diesel in Bucket



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 Rig 10
 Elevation: 2285 EGL
 Field Name: Schaben
 Pool: Infield
 Job Number: 107

| |
|---|
| <p>DATE February 09 2018</p> |
|---|

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Time On: 19:45 02/09 Time Off: 02:35 02/10
 Time On Bottom: 22:08 02/09 Time Off Bottom: 00:08 02/09

Down Hole Makeup

| | |
|--|---------------------------------|
| Heads Up: 33.17 FT | Packer 1: 4349.76 FT |
| Drill Pipe: 4236.55 FT <i>ID-3 1/2</i> | Packer 2: 4354.76 FT |
| Weight Pipe: 0 FT <i>ID-2 7/8</i> | Top Recorder: 4339.18 FT |
| Collars: 118.81 FT <i>ID-2 1/4</i> | Bottom Recorder: 4423 FT |
| Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i> | Well Bore Size: 7 7/8 |
| Total Anchor: 75.24 | Surface Choke: 1" |
| <u>Anchor Makeup</u> | Bottom Choke: 5/8" |
| Packer Sub: 1 FT | |
| Perforations: (top): 2 FT <i>4 1/2-FH</i> | |
| Change Over: .5 FT | |
| Drill Pipe: (in anchor): 62.74 FT <i>ID-3 1/2</i> | |
| Change Over: 1 FT | |
| Perforations: (below): 8 FT <i>4 1/2-FH</i> | |



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Rig 10
Elevation: 2285 EGL
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Time On: 19:45 02/09 Time Off: 02:35 02/10
Time On Bottom: 22:08 02/09 Time Off Bottom: 00:08 02/09

Mud Properties

Mud Type: Chem **Weight:** 9.2 **Viscosity:** 50 **Filtrate:** 8 **Chlorides:** 8600 ppm



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Time On: 19:45 02/09 Time Off: 02:35 02/10
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Gas Volume Report

1st Open

2nd Open

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|

GEOLOGIST REPORT

WellSight Systems

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

Well Name: KT Schaben #2-31
Well Id:
Location: SW-SW-SE-NW Sec. 31-19S-21W (Ness County)
License Number: 15-135-25990
Spud Date: 2/2/18
Surface Coordinates: 2316' FNL & 1540' FWL
Region: KANSAS
Drilling Completed: 2/11/18

Bottom Hole
Coordinates:
Ground Elevation (ft): 2285
Logged Interval (ft): 3600 To: TD
Formation: Mississippian
Type of Drilling Fluid: Mud-Co Chemical
K.B. Elevation (ft): 2290
Total Depth (ft): 4515

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

OPERATOR

Company: Schaben Oil, LLC
Address: 4145 Keystone
Hays, KS 67560

GEOLOGIST

Name: Andrew Stenzel
Company: Petroleum Geologist
Address: 501 S. Franklin
Ness City, KS 67560

Drilling Report

DAILY DRILLING REPORT:

2/2/18 MIRU, ran surface casing
2/3/18 Drilling @ 370'
2/4/18 Drilling @ 1910'
2/5/18 Drilling @ 2720'
2/6/18 Drilling @ 3340'
2/7/18 Drilling @ 4141'
2/8/18 Tripping on with bit @ 4306'
2/9/18 Drilling @ 4410'
2/10/18 DST #1, DST #2
2/11/18 Ran electric logs, Plugged & Abandoned

Services

RIG: WW DRILLING, Rig #10

MUD: MUDCO
LOGS: PIONEER WIRELINE
TESTER: DIAMOND TESTING



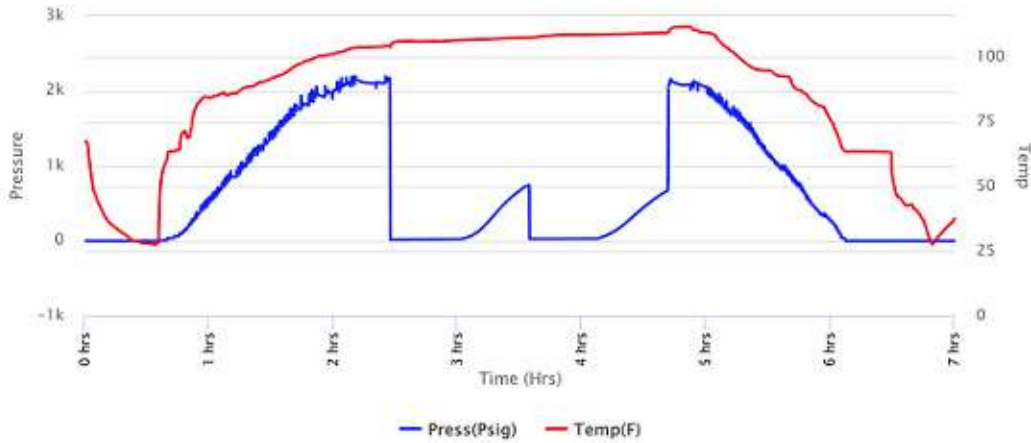
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Electronic Volume Estimate: 26'
 1st Open Minutes: 30 1st Close Minutes: 30 2nd Open Minutes: 30 2nd Close Minutes: 30
 .8" at 30 min 0" at 30 min 0" at 30 min 0" at 30 min



Company: Schaben Oil LLC
Lease: KT Schaben #2-31

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Recovered

Foot BBLs
 30 0.1476

Description of Fluid Gas % Oil % Water % Mud %
 SLOCM 0 1 0 99

Total Recovered: 30 ft
 Total Barrels Recovered: 0.1476

Reversed Out
 NO

Recovery at a glance

| | | |
|---|----------|-----|
| Initial Hydrostatic Pressure | 2124 | PSI |
| Initial Flow | 15 to 25 | PSI |
| Initial Closed in Pressure | 748 | PSI |
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| Final Hydrostatic Pressure | 2125 | PSI |
| Temperature | 110 | °F |
| Pressure Change Initial Close / Final Close | 10.6 | % |





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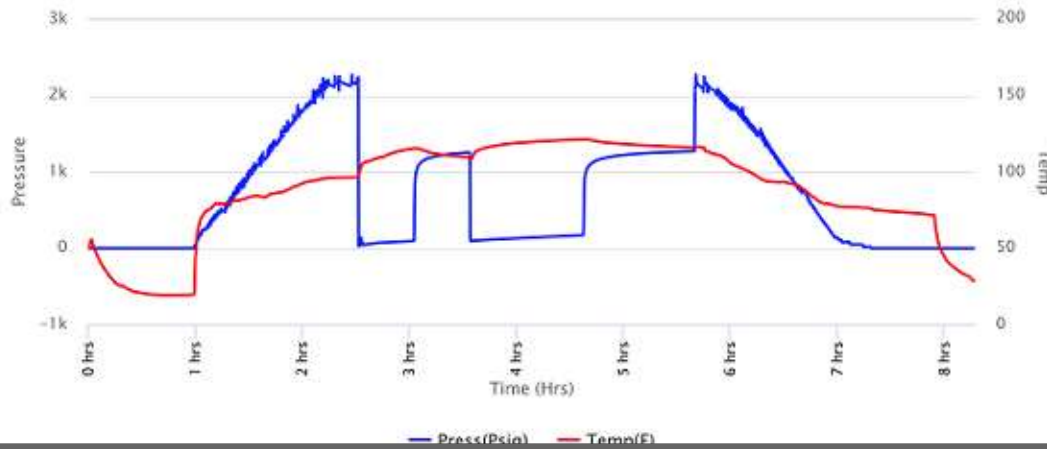
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| | | | | |
|----------------------------------|--|--|---|--|
| Electronic Volume Estimate: 319' | <u>1st Open</u> Minutes: 30 8.8" at 30 min | <u>1st Close</u> Minutes: 30 :6" at 30 min | <u>2nd Open</u> Minutes: 60 11.2" at 60 min | <u>2nd Close</u> Minutes: 60 .5" at 60 min |
|----------------------------------|--|--|---|--|



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 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 10
 Elevation: 2285 EGL
 Field Name: Schaben
 Pool: Infield
 Job Number: 107

DATE
 February
10
 2018

DST #2 **Formation: Miss** **Test Interval: 4429 - 4438'** **Total Depth: 4438'**

Time On: 09:04 02/10 Time Off: 17:30 02/10
 Time On Bottom: 11:32 02/10 Time Off Bottom: 14:32 02/10

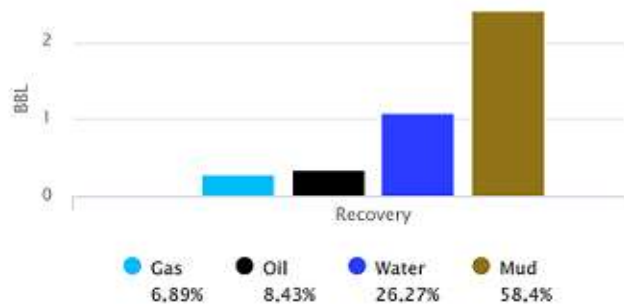
| Recovered | | | Gas % | Oil % | Water % | Mud % |
|-----------|-----------|----------------------|-------|-------|---------|-------|
| Foot | BBLs | Description of Fluid | | | | |
| 20 | 0.2846 | G | 100 | 0 | 0 | 0 |
| 22 | 0.31306 | O | 0 | 100 | 0 | 0 |
| 146 | 2.07758 | SLOCM | 0 | 1 | 0 | 99 |
| 62 | 0.8747189 | SLOCHMCW | 0 | 1 | 65 | 34 |
| 118 | 0.58056 | SLOCSLMCW | 0 | 1 | 89 | 10 |

Total Recovered: 368 ft
 Total Barrels Recovered: 4.1305189

Reversed Out
 NO

| | | |
|---|-----------|-----|
| Initial Hydrostatic Pressure | 2127 | PSI |
| Initial Flow | 25 to 96 | PSI |
| Initial Closed in Pressure | 1255 | PSI |
| Final Flow Pressure | 96 to 172 | PSI |
| Final Closed in Pressure | 1269 | PSI |
| Final Hydrostatic Pressure | 2125 | PSI |
| Temperature | 122 | °F |
| Pressure Change Initial Close / Final Close | 0.0 | % |

Recovery at a glance



Casing Record


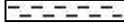

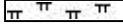
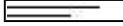
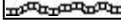




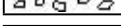

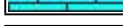

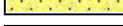



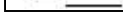
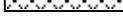
SURFACE Casing: Ran 6 jts 8 5/8" at 220'

PRODUCTION Casing: None

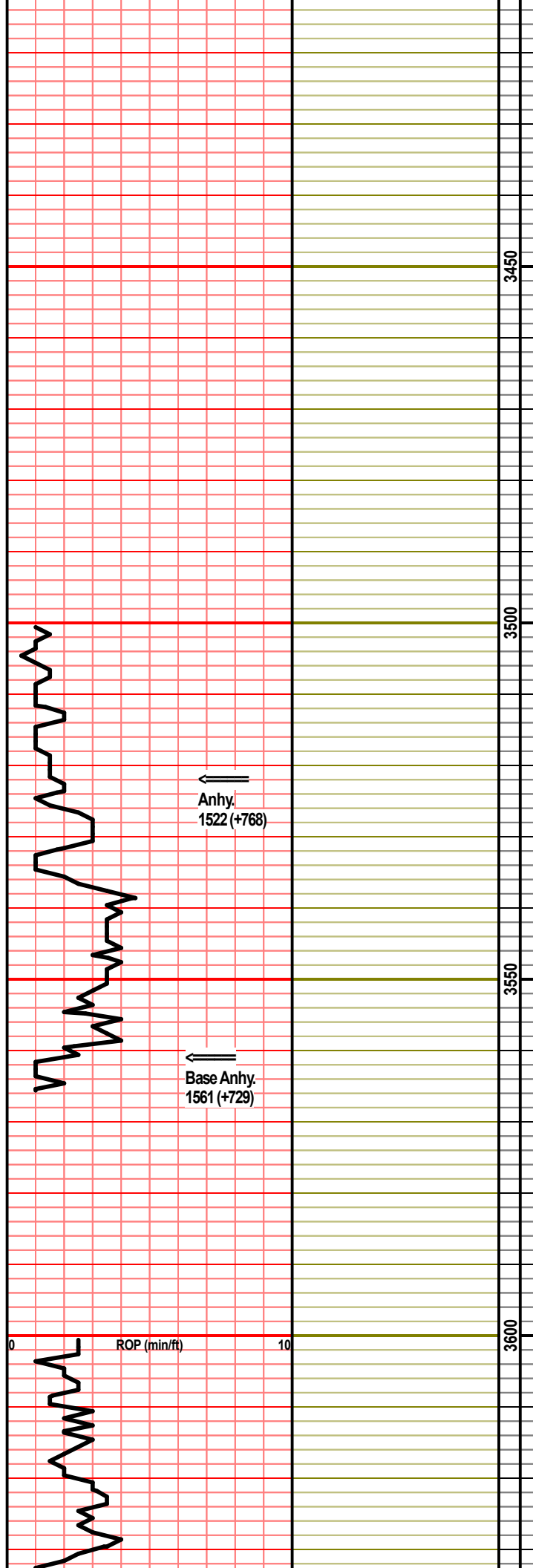
Formation Tops

| Sample Tops | | LogTops | |
|-------------|--------------|------------|--------------|
| Anhy. | 1522 (+768) | Anhy. | 1524 (+766) |
| Base Anhy. | 1561 (+729) | Base Anhy. | 1557 (+733) |
| Heebner | 3787 (-1497) | Heebner | 3786 (-1496) |
| Lansing | 3834 (-1544) | Lansing | 3832 (-1542) |
| BKC | 4146 (-1856) | BKC | 4144 (-1854) |
| Pawnee | 4251 (-1961) | Pawnee | 4252 (-1962) |
| Ft. Scott | 4337 (-2047) | Ft. Scott | 4334 (-2044) |
| Cher. Sh. | 4356 (-2066) | Cher. Sh. | 4354 (-2064) |
| Miss. | 4417 (-2127) | Miss. | 4420 (-2130) |
| RTD | 4515 (-2225) | LTD | 4513 (-2223) |

ROCK TYPES

| | | | | |
|---|---|--|--|---|
|  Anhy |  Clyst |  Gyp |  Mrlst |  Shgy |
|  Bent |  Carb sh |  Igne |  Salt |  Sltst |
|  Brec |  Congl |  Lmst |  Shale |  Ss |
|  Cht |  Dol |  Meta |  Shcol |  Till |

| ROP ROP (min/ft) | Misc | Depth <small>Oil Shows</small> | % Lithology | Geological Descriptions | DST |
|------------------------|------|-----------------------------------|-------------|-------------------------|-----|
| 0 — 10 ROP (min/ft) | | 33 | | | |
| 0 — 10 ROP (min/ft) | | 3400 | | | |



3450

3500

3550

3600

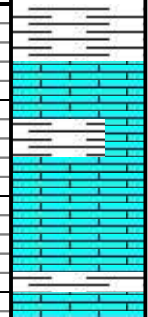
←
Anhy.
1522 (+768)

←
Base Anhy.
1561 (+729)

ROP (min/ft)

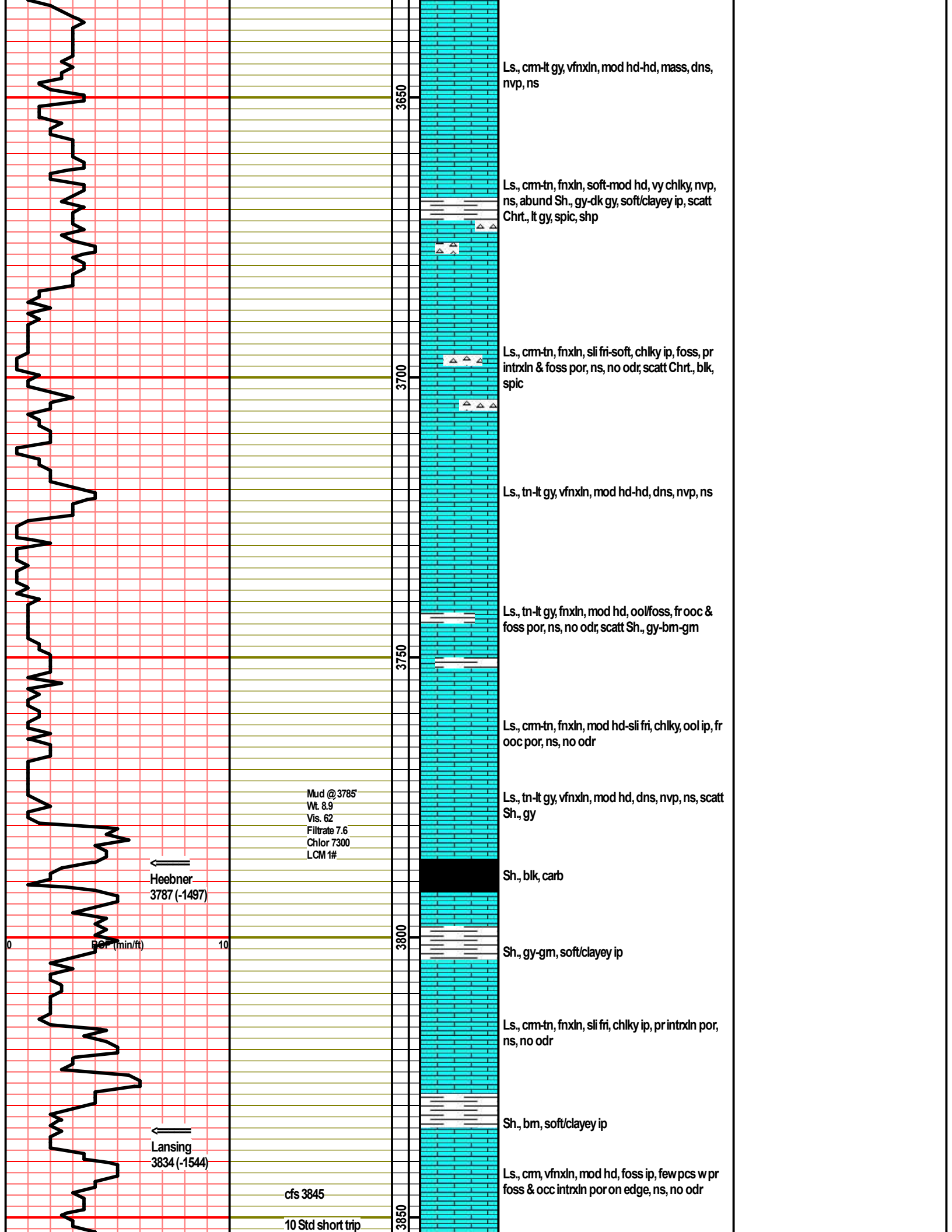
0

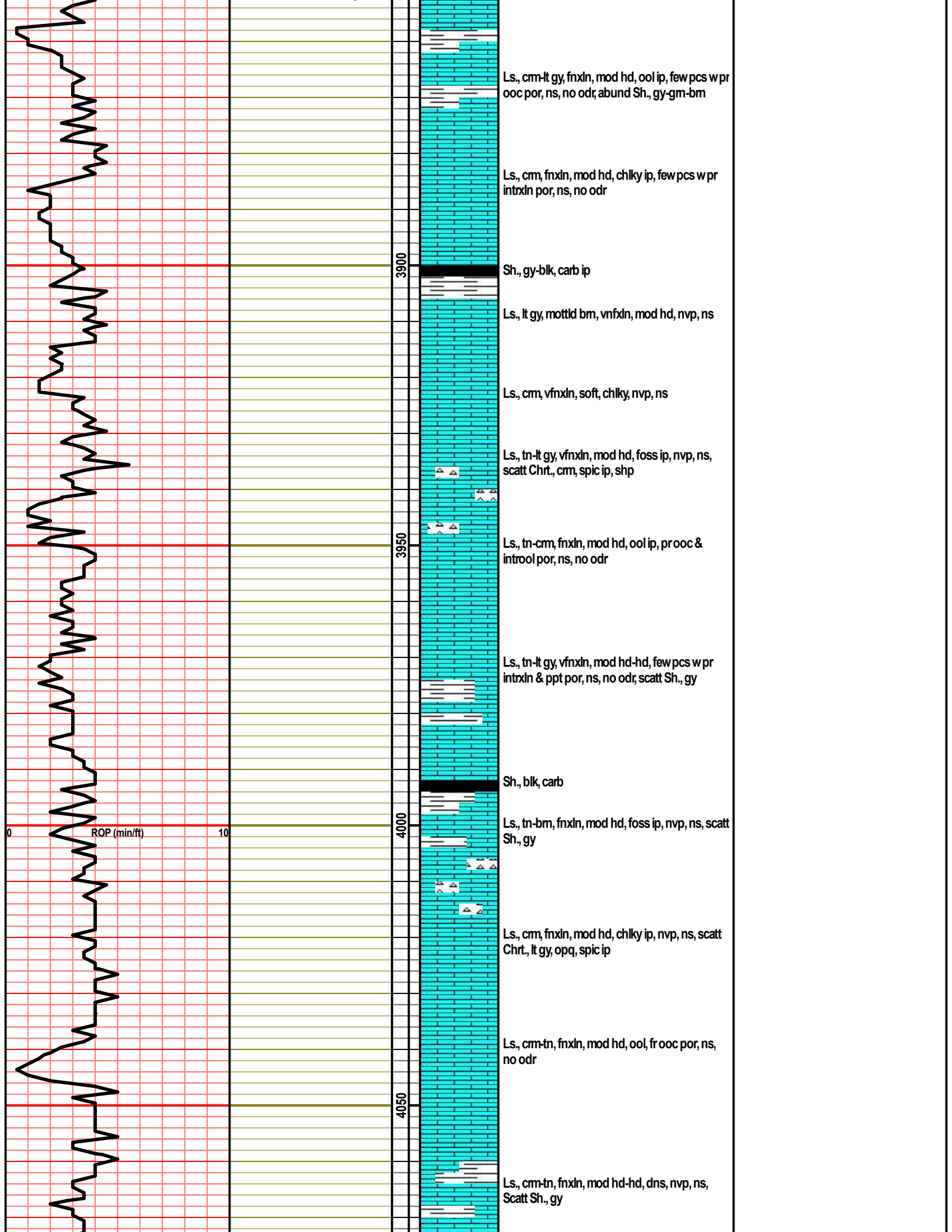
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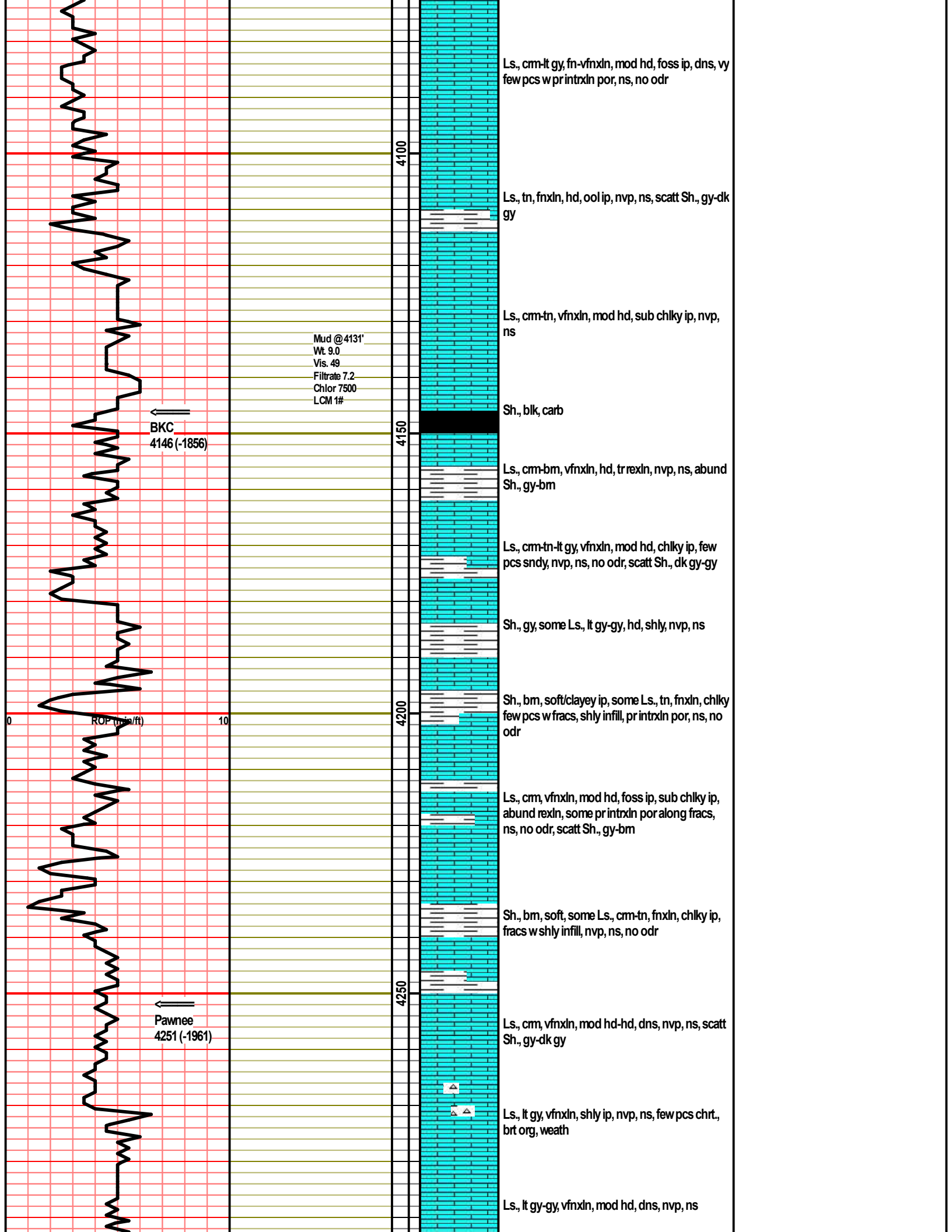


Sh., gy-dk gy, Ls., lt gy-gy, fnxn, mod hd-fri,
chky, ool ip, few pcs w pr introol por, ns, no odr

Ls., cm-tn, fnxn, soft, chky, ool/foss, few pcs
w pr ooc por, ns, no odr, scatt Sh., gy







Ls., cm-lt gy, fn-vfnxn, mod hd, foss ip, dns, vy few pcs w pr intrxn por, ns, no odr

4100

Ls., tn, fnxn, hd, ool ip, nvp, ns, scatt Sh., gy-dk gy

Ls., cm-tn, vfnxn, mod hd, sub chlky ip, nvp, ns

Mud @ 4131'
Wt. 9.0
Vis. 49
Filtrate 7.2
Chlor 7500
LCM 1#

←
BKC
4146 (-1856)

4150

Sh., blk, carb

Ls., cm-bm, vfnxn, hd, trrxn, nvp, ns, abund Sh., gy-bm

Ls., cm-tn-lt gy, vfnxn, mod hd, chlky ip, few pcs sndy, nvp, ns, no odr, scatt Sh., dk gy-gy

Sh., gy, some Ls., lt gy-gy, hd, shly, nvp, ns

Sh., bm, soft/clayey ip, some Ls., tn, fnxn, chlky few pcs w fracs, shly infill, pr intrxn por, ns, no odr

4200

Ls., cm, vfnxn, mod hd, foss ip, sub chlky ip, abund rexln, some pr intrxn por along fracs, ns, no odr, scatt Sh., gy-bm

Sh., bm, soft, some Ls., cm-tn, fnxn, chlky ip, fracs w shly infill, nvp, ns, no odr

4250

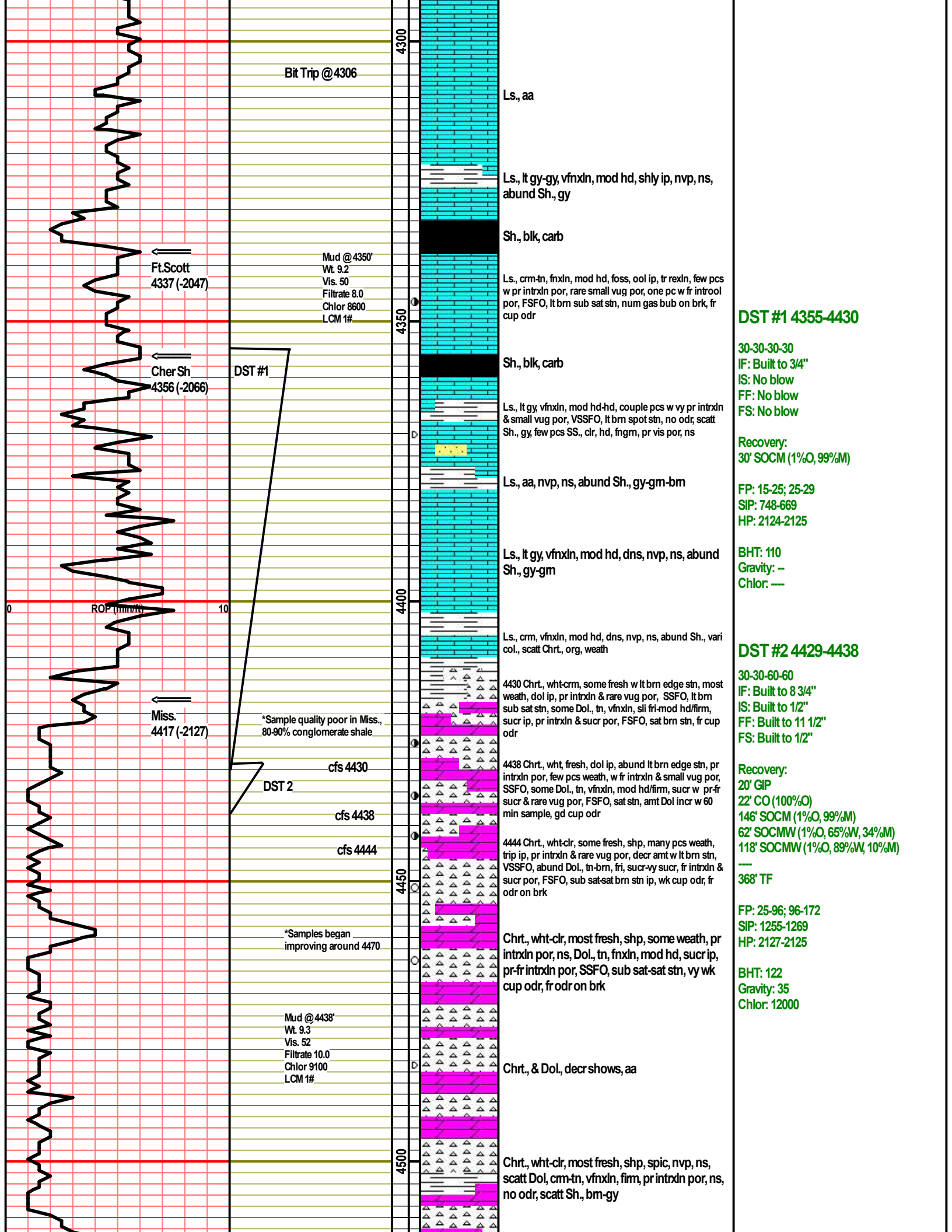
←
Pawnee
4251 (-1961)

Ls., cm, vfnxn, mod hd-hd, dns, nvp, ns, scatt Sh., gy-dk gy

Ls., lt gy, vfnxn, shly ip, nvp, ns, few pcs chrt., brt org, weath

Ls., lt gy-gy, vfnxn, mod hd, dns, nvp, ns

ROP (min/ft) 0 10



DST #1 4355-4430

30-30-30-30
IF: Built to 3/4"
IS: No blow
FF: No blow
FS: No blow

Recovery:
30' SOCM (1%O, 99%AM)

FP: 15-25; 25-29
SIP: 748-669
HP: 2124-2125

BHT: 110
Gravity: -
Chlor: ---

DST #2 4429-4438

30-30-60-60
IF: Built to 8 3/4"
IS: Built to 1/2"
FF: Built to 11 1/2"
FS: Built to 1/2"

Recovery:
20' GIP
22' CO (100%O)
146' SOCM (1%O, 99%AM)
62' SOCMW (1%O, 65%W, 34%AM)
118' SOCMW (1%O, 89%W, 10%AM)

368' TF

FP: 25-96; 96-172
SIP: 1255-1269
HP: 2127-2125

BHT: 122
Gravity: 35
Chlor: 12000

V

←
RTD
4515 (-2225)

cfs 4515

4550

00

