1096429

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
**Form Must Be Typed**
**Form must be Signed**
**All blanks must be Filled**

# WELL COMPLETION FORM
## WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34318
Name: BEREXCO LLC
Address 1: 2020 N. BRAMBLEWOOD
Address 2:
City: WICHITA State: KS Zip: 67206 + 1094
Contact Person: Rodney Reynolds
Phone: ( 316 ) 265-3311
CONTRACTOR: License # 34317
Name: BEREDCO LLC
Wellsite Geologist: William B. Bynog
Purchaser: Central Crude Corporation

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
☐ Conv. to GSW
☐ Plug Back: Plug Back Total Depth
☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

| 08/27/2012 | 09/10/2012 | 01/03/2013 |
|---|---|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 15-023-21354-00-00
Spot Description:
SW-NE-SE-NE Sec. 9 Twp. 1 S. R. 37 ☐ East ☑ West
1820 Feet from ☑ North / ☐ South Line of Section
620 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW

County: Cheyenne
Lease Name: Mears A Well #: 1-9
Field Name: Wildcat
Producing Formation: Pawnee
Elevation: Ground: 3129 Kelly Bushing: 3140
Total Depth: 5142 Plug Back Total Depth: 5081
Amount of Surface Pipe Set and Cemented at: 310 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: 1400 ppm Fluid volume: 1200 bbls
Dewatering method used: Evaporated

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**

☑ **Letter of Confidentiality Received**
Date: 02/22/2013
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
**ALT** ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 02/28/2013

*Side Two*

1096429

Operator Name: BEREXCO LLC Lease Name: Mears A Well #: 1-9

Sec. 9 Twp. 1 S. R. 37 ☐ East ☑ West County: Cheyenne

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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

Electric Log Submitted Electronically ☑ Yes ☐ No
*(If no, Submit Copy)*

List All E. Logs Run:

Radiation Guard Log
Borehole Compensated Sonic Log
Microresistivity Log

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

| Name | Top | Datum |
|---|---|---|
| Attached | Attached | Attached |

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
|---|---|---|---|---|---|---|---|
| Surface | 12.25 | 8.625 | 23 | 306 | Common | 225 | 3% cc, 2% gel |
| Production | 7.875 | 5.50 | 15.5 | 5139 | Lite & Common | 775 | 10%salt, 2%gel, 5#gilsonite, 1/4#floseal |
| | | | | | | | |

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

| 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 | 4486 - 4492 (Pawnee) | 1000 gals 15% MCA, 3% solvent | 4486 - 4492 |
| | | | |
| | | | |
| | | | |
| | | | |

| TUBING RECORD: | Size: | Set At: | Packer At: | Liner Run: |
|---|---|---|---|---|
| | 2.875 | 4509 | no pkr | ☐ Yes ☑ No |

Date of First, Resumed Production, SWD or ENHR. 01/03/2013

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

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|---|---|---|---|---|---|
| | 44 | 0 | 11 | | 33 |

| DISPOSITION OF GAS: | METHOD OF COMPLETION: | PRODUCTION INTERVAL: |
|---|---|---|
| ☐ Vented ☐ Sold ☐ Used on Lease<br>*(If vented, Submit ACO-18.)* | ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*<br>☐ Other *(Specify)* | 4482 - 4492 |

**Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202**

| | |
|---|---|
| Form | ACO1 - Well Completion |
| Operator | BEREXCO LLC |
| Well Name | Mears A 1-9 |
| Doc ID | 1096429 |

Tops

| Name | Top | Datum |
|---|---|---|
| Anhydrite (top) | 3088 | +52 |
| Anhydrite (base) | 3122 | +18 |
| Foraker | 3656 | -516 |
| Topeka | 3876 | -736 |
| Oread | 4010 | -870 |
| Lansing A | 4092 | -952 |
| Lansing B | 4148 | -1008 |
| Lansing C | 4202 | -1062 |
| Lansing D | 4246 | -1106 |
| Lansing E | 4294 | -1154 |
| Lansing F | 4336 | -1196 |
| Pawnee | 4486 | -1346 |
| Cherokee | 4544 | -1404 |
| Mississippi | 4806 | -1666 |
| Arbuckle | 4968 | -1828 |
| Reagan Sand | 5048 | -1908 |
| Granite Wash | 5107 | -1967 |
| Granite | 5116 | -1976 |
| RTD | 5142 | |

# ALLIED OIL & GAS SERVICES, LLC 056308

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Oakley, KS

| DATE | SEC. | TWP. | RANGE | CALLED OUT | ON LOCATION | JOB START | JOB FINISH |
|---|---|---|---|---|---|---|---|
| 8-26-12 | 9 | 1 | 39 | | 10:00am | 1:00pm | 2:30pm |

LEASE Mears A WELL # 1-9 LOCATION Bird City, 13N (4 AA) 3 1/2 E (Rd 32) 3 1/4 N + E into COUNTY Cheyenne STATE KS

OLD OR NEW (Circle one)

CONTRACTOR Berexco #10

OWNER Same

TYPE OF JOB Surface

HOLE SIZE 12 1/4"

T.D. 310'

CASING SIZE 8 5/8"

DEPTH 303.51

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 18.75 bbl

**EQUIPMENT**

PUMP TRUCK # 422 CEMENTER LaRoue Wentz

HELPER Terry Heinrich

BULK TRUCK # 404 DRIVER D.J. Gray

BULK TRUCK # DRIVER

**REMARKS:**

Mix 225 sks cement
Displace with water
Cement Did Circulate

Thank you

CHARGE TO: Berexco, Inc

STREET

CITY STATE ZIP

CEMENT

AMOUNT ORDERED 225 sks Com 3% CC 2% gel

| | | | |
|---|---|---|---|
| COMMON | 225 sks | @ 16.25 | 3656.25 |
| POZMIX | | @ | |
| GEL | 4 sks | @ 21.25 | 85.00 |
| CHLORIDE | 8 sks | @ 58.20 | 465.60 |
| ASC | | @ | |
| HANDLING | 243.31 cf | @ 2.10 | 510.95 |
| MILEAGE | 1.11/sk/mile x 50 x 2.35 | | 1304.25 |

555 — TOTAL 6022.05

**SERVICE**

| | | | |
|---|---|---|---|
| DEPTH OF JOB | 303.51' | | |
| PUMP TRUCK CHARGE | | | 1125.00 |
| EXTRA FOOTAGE | 3' | @ .95 | 2.85 |
| MILEAGE | 50 | @ 7.00 | 350.00 |
| MANIFOLD | | @ | |
| L.D. mileage | 50 | @ 4.00 | |
| | | @ | |

TOTAL 1477.85

**PLUG & FLOAT EQUIPMENT**

| | | |
|---|---|---|
| | @ | |
| | @ | |
| | @ | |
| | @ | |
| | @ | |

TOTAL

SALES TAX (If Any) 349.16

TOTAL CHARGES 7,499.90

DISCOUNT 24 1799.99 IF PAID IN 30 DAYS

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Milo Salinas

SIGNATURE

# DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Berexco LLC.

2020 N. Bramblewood
Wichita, Ks. 67206

ATTN: Bryan Bynog

**9-15S-37W Cheyenne Ks.**

**Mears A #1-9**

Job Ticket: 49399 **DST#: 1**

Test Start: 2012.08.31 @ 06:50:00

## GENERAL INFORMATION:

Formation: **Foraker**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:19:00
Time Test Ended: 17:14:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Troy Leiker
Unit No: #57

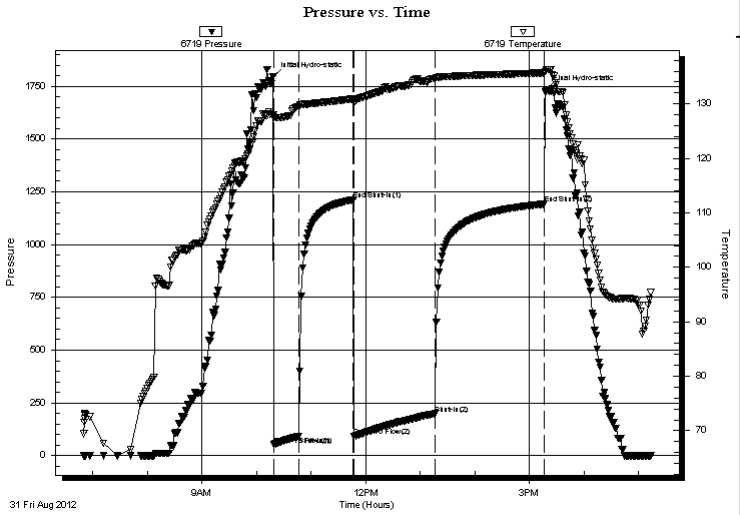
**Interval: 3620.00 ft (KB) To 3720.00 ft (KB) (TVD)**
Total Depth: 3720.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3140.00 ft (KB)
3129.00 ft (CF)
KB to GR/CF: 11.00 ft

**Serial #: 6719** **Inside**

| | | | | | |
|---|---|---|---|---|---|
| Press@RunDepth: | 198.08 psig @ | 3695.00 ft (KB) | | Capacity: | 8000.00 psig |
| Start Date: | 2012.08.31 | End Date: | 2012.08.31 | Last Calib.: | 1899.12.30 |
| Start Time: | 06:50:05 | End Time: | 17:14:30 | Time On Btm: | 2012.08.31 @ 10:18:30 |
| | | | | Time Off Btm: | 2012.08.31 @ 15:19:00 |

TEST COMMENT: IF 30 Weak Blow , Increased to 2 1/2" in bkt.
IS 60 No Blow Back
FF 90 Weak Blow , Increased Very Slowly to 2 1/2"
FS 120 No Blow Back




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 1797.32 | 128.03 | Initial Hydro-static |
| 1 | 51.20 | 127.66 | Open To Flow (1) |
| 29 | 90.65 | 129.59 | Shut-In(1) |
| 88 | 1212.63 | 130.88 | End Shut-In(1) |
| 89 | 92.85 | 130.60 | Open To Flow (2) |
| 178 | 198.08 | 134.63 | Shut-In(2) |
| 299 | 1192.59 | 135.67 | End Shut-In(2) |
| 301 | 1735.80 | 136.32 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 300.00 | WCM 85%m, 15%w | 1.48 |
| 5.00 | WCM 90%m, 10%w | 0.02 |
| | | |
| | | |
| | | |
| | | |

## Gas Rates

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

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco LLC.

2020 N. Bramblew ood
Wichita, Ks. 67206

ATTN: Bryan Bynog

**9-15S-37W Cheyenne Ks.**

**Mears A #1-9**

Job Ticket: 49399 **DST#: 1**

Test Start: 2012.08.31 @ 06:50:00

## Mud and Cushion Information

| | | | | | |
|---|---|---|---|---|---|
| Mud Type: | Gel Chem | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | 9.00 lb/gal | Cushion Length: | ft | Water Salinity: | ppm |
| Viscosity: | 56.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 7.56 in³ | Gas Cushion Type: | | | |
| Resistivity: | 1.00 ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 600.00 ppm | | | | |
| Filter Cake: | inches | | | | |

## Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|---|---|---|
| 300.00 | WCM 85%m, 15%w | 1.475 |
| 5.00 | WCM 90%m, 10%w | 0.025 |

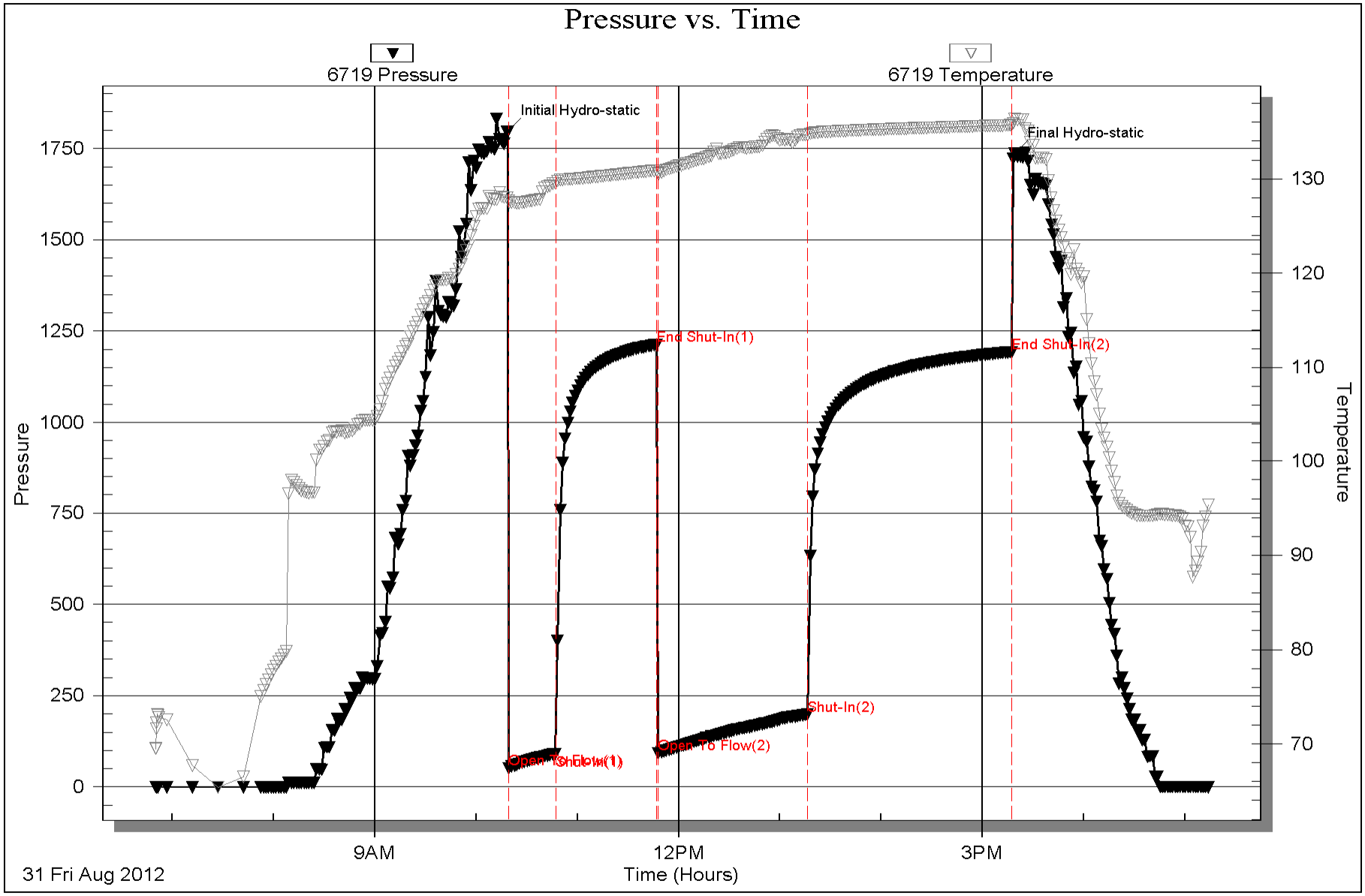
Total Length: 305.00 ft Total Volume: 1.500 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6719 **Inside** Berexco LLC. Mears A #1-9 DST Test Number: 1




Trilobite Testing, Inc Ref. No: 49399 Printed: 2012.09.04 @ 17:55:49

# DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Berexco LLC.

2020 N. Bramblewood
Wichita, Ks. 67206

ATTN: Bryan Bynog

**9-15S-37W Cheyenne Ks.**

**Mears A #1-9**

Job Ticket: 49400 **DST#: 2**

Test Start: 2012.09.01 @ 21:40:00

## GENERAL INFORMATION:

Formation: **Oread**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:09:00
Time Test Ended: 07:44:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Troy Leiker
Unit No: #57

**Interval: 3920.00 ft (KB) To 4035.00 ft (KB) (TVD)**
Total Depth: 4035.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

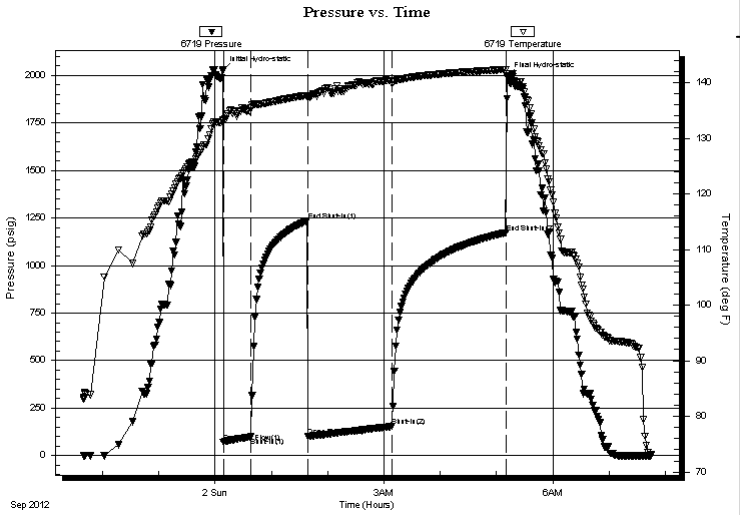
Reference Elevations: 3140.00 ft (KB)
3129.00 ft (CF)
KB to GR/CF: 11.00 ft

**Serial #: 6719** **Inside**

Press@RunDepth: 153.48 psig @ 4018.00 ft (KB)
Start Date: 2012.09.01 End Date: 2012.09.02
Start Time: 21:40:05 End Time: 07:44:30

Capacity: 8000.00 psig
Last Calib.: 2012.09.02
Time On Btm: 2012.09.02 @ 00:08:30
Time Off Btm: 2012.09.02 @ 05:11:30

TEST COMMENT: IF 30 Weak Blow Increased to 1 1/2"
IS 60 No Blow Back
FF 90 Very Weak Surface Blow Died in 30 sec.
FS 120 No Blow Back




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2027.94 | 133.33 | Initial Hydro-static |
| 1 | 70.38 | 133.21 | Open To Flow (1) |
| 30 | 98.75 | 135.55 | Shut-In(1) |
| 90 | 1236.59 | 137.74 | End Shut-In(1) |
| 91 | 100.13 | 137.36 | Open To Flow (2) |
| 180 | 153.48 | 140.10 | Shut-In(2) |
| 302 | 1172.68 | 142.39 | End Shut-In(2) |
| 303 | 1992.26 | 141.25 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 120.00 | Drlg. Mud 100% | 0.59 |
| | | |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

## Gas Rates

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

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco LLC.

2020 N. Bramblew ood
Wichita, Ks. 67206

ATTN: Bryan Bynog

**9-15S-37W Cheyenne Ks.**

**Mears A #1-9**

Job Ticket: 49400 **DST#: 2**

Test Start: 2012.09.01 @ 21:40:00

## 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: | ppm |
| Viscosity: | 52.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 6.80 in³ | Gas Cushion Type: | | | |
| Resistivity: | 1.00 ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 1000.00 ppm | | | | |
| Filter Cake: | inches | | | | |

## Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|---|---|---|
| 120.00 | Drlg. Mud 100% | 0.590 |

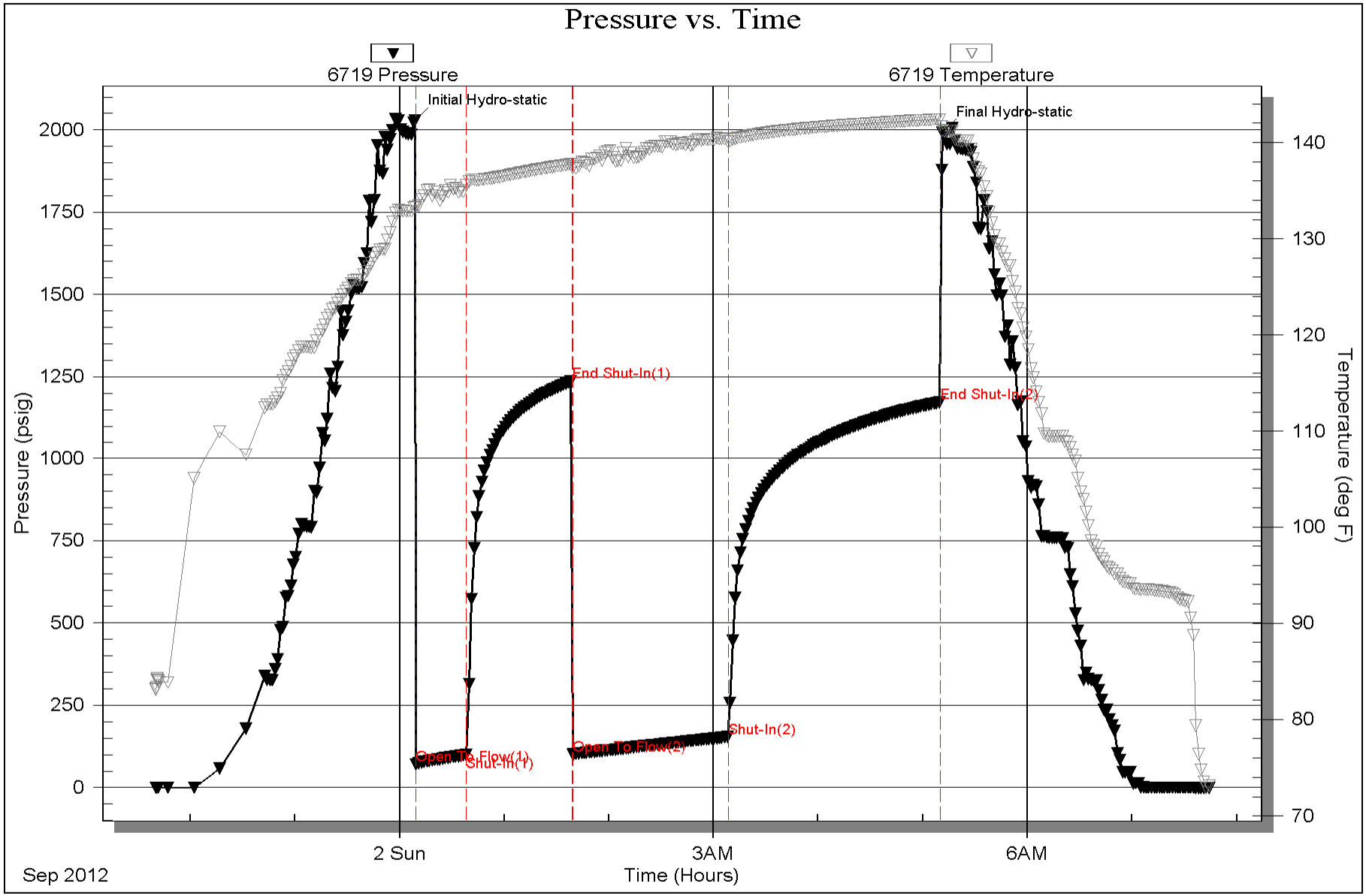
Total Length: 120.00 ft Total Volume: 0.590 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6719 **Inside** Berexco LLC. Mears A #1-9 DST Test Number: 2




Trilobite Testing, Inc Ref. No: 49400 Printed: 2012.09.02 @ 22:59:14

# DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Berexco LLC.

2020 N. Bramblewood
Wichita, Ks. 67206

ATTN: Bryan Bynog

**9-15S-37W Cheyenne Ks.**

**Mears A #1-9**

Job Ticket: 49401 **DST#: 3**

Test Start: 2012.09.03 @ 01:47:00

## GENERAL INFORMATION:

Formation: **Lansing KC. A & B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:21:00
Time Test Ended: 12:49:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Troy Leiker
Unit No: #57

**Interval: 4030.00 ft (KB) To 4180.00 ft (KB) (TVD)**
Total Depth: 4180.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

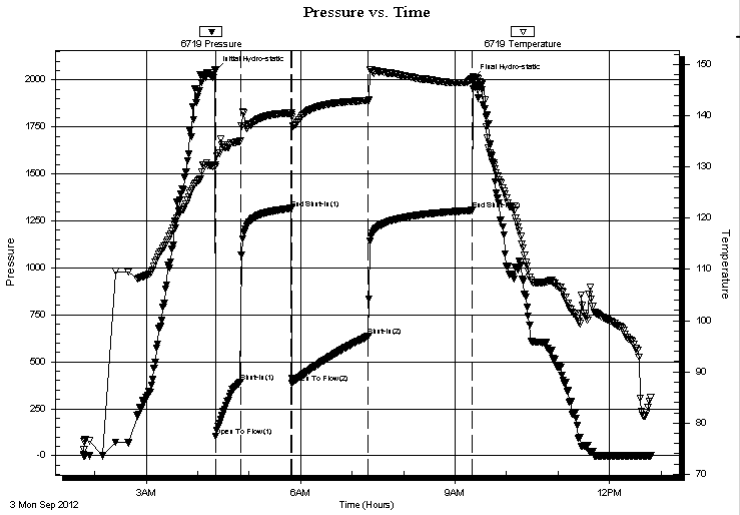
Reference Elevations: 3140.00 ft (KB)
3129.00 ft (CF)
KB to GR/CF: 11.00 ft

**Serial #: 6719** **Inside**

Press@RunDepth: 636.74 psig @ 4159.00 ft (KB)
Start Date: 2012.09.03 End Date: 2012.09.03
Start Time: 01:47:05 End Time: 12:49:00

Capacity: 8000.00 psig
Last Calib.: 2012.09.04
Time On Btm: 2012.09.03 @ 04:20:30
Time Off Btm: 2012.09.03 @ 09:21:30

TEST COMMENT: IF 30 Strong Blow , Off Bottom in 9 Min.
IS 60 No Blow Back
FF 90 Strong Blow , Off Bottom in 13 Min.
FS 120 No Blow Back




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2049.20 | 130.01 | Initial Hydro-static |
| 1 | 104.75 | 130.45 | Open To Flow (1) |
| 30 | 390.47 | 135.08 | Shut-In(1) |
| 89 | 1316.44 | 140.54 | End Shut-In(1) |
| 90 | 387.76 | 139.75 | Open To Flow (2) |
| 179 | 636.74 | 143.00 | Shut-In(2) |
| 300 | 1306.46 | 147.19 | End Shut-In(2) |
| 301 | 2007.00 | 147.44 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 558.00 | Muddy Water With Trace of Oil | 2.74 |
| 496.00 | VSCOWM 5%o 45%w 50%m | 6.73 |
| 62.00 | OCM 20%o 80%m | 0.87 |
| 9.00 | SOCM 10%o 90%m | 0.13 |
| | | |
| | | |

* Recovery from multiple tests

## Gas Rates

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

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TRILOBITE TESTING, INC.

Berexco LLC.

2020 N. Bramblewood
Wichita, Ks. 67206

ATTN: Bryan Bynog

**9-15S-37W Cheyenne Ks.**

**Mears A #1-9**

Job Ticket: 49401 **DST#: 3**

Test Start: 2012.09.03 @ 01:47:00

## Mud and Cushion Information

| | | | | | |
|---|---|---|---|---|---|
| Mud Type: | Gel Chem | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | 9.00 lb/gal | Cushion Length: | ft | Water Salinity: | ppm |
| Viscosity: | 48.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 7.96 in³ | Gas Cushion Type: | | | |
| Resistivity: | 1.00 ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 1500.00 ppm | | | | |
| Filter Cake: | inches | | | | |

## Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|---|---|---|
| 558.00 | Muddy Water With Trace of Oil | 2.744 |
| 496.00 | VSCOWM 5%o 45%w 50%m | 6.730 |
| 62.00 | OCM 20%o 80%m | 0.870 |
| 9.00 | SOCM 10%o 90%m | 0.126 |

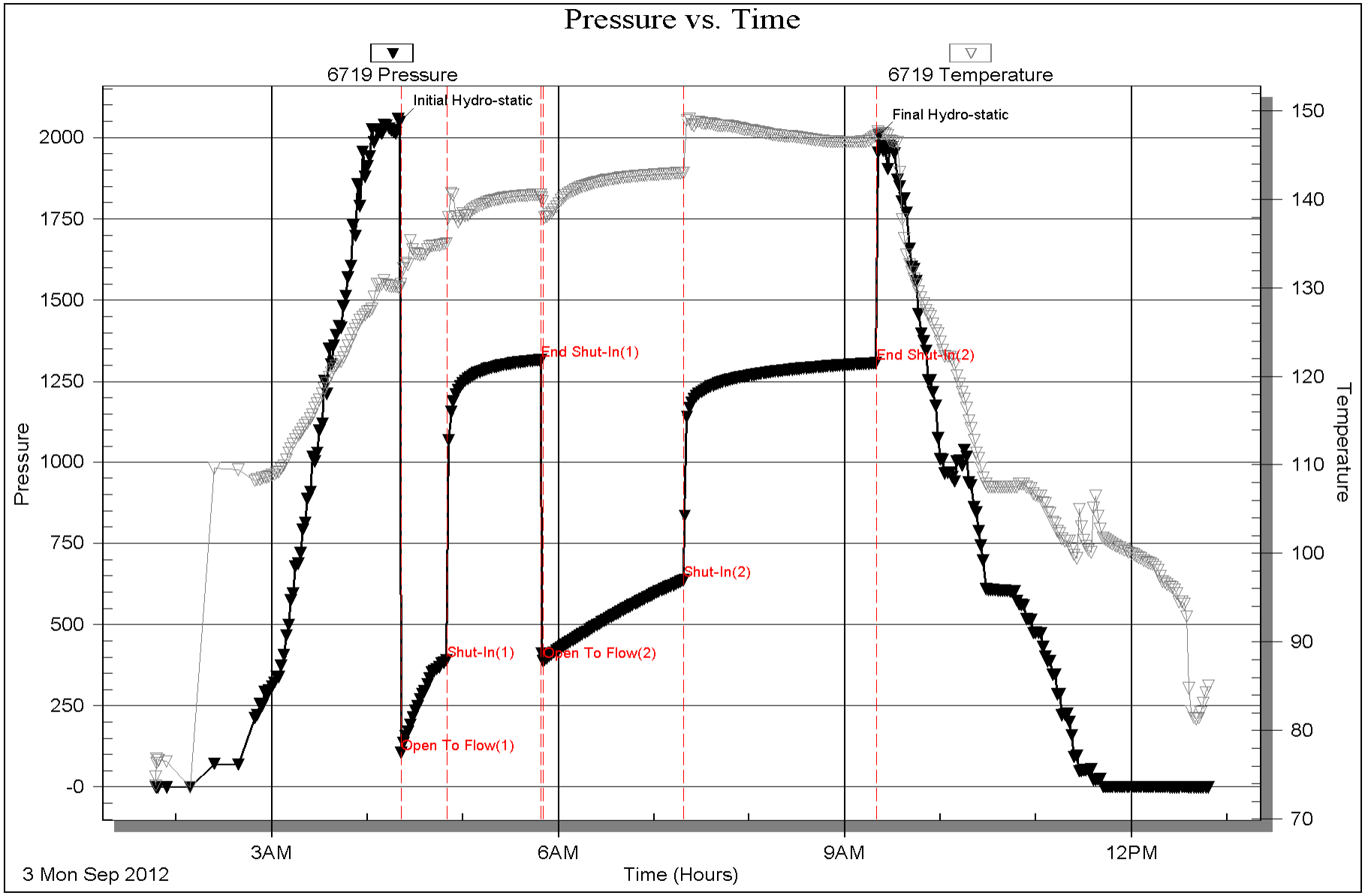
Total Length: 1125.00 ft Total Volume: 10.470 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Water Chlorides 950

Serial #: 6719 **Inside** Berexco LLC. Mears A #1-9 DST Test Number: 3




Trilobite Testing, Inc Ref. No: 49401 Printed: 2012.09.04 @ 17:55:08

# DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Berexco LLC.

2020 N. Bramblewood
Wichita, Ks. 67206

ATTN: Bryan Bynog

**9-15S-37W Cheyenne Ks.**

**Mears A #1-9**

Job Ticket: 48134 **DST#: 4**

Test Start: 2012.09.04 @ 01:12:00

## GENERAL INFORMATION:

Formation: **LKC "C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:36:30
Time Test Ended: 09:58:00

Test Type: Conventional Bottom Hole (Reset)
Tester: James Winder
Unit No: #57

**Interval: 4176.00 ft (KB) To 4220.00 ft (KB) (TVD)**
Total Depth: 4220.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

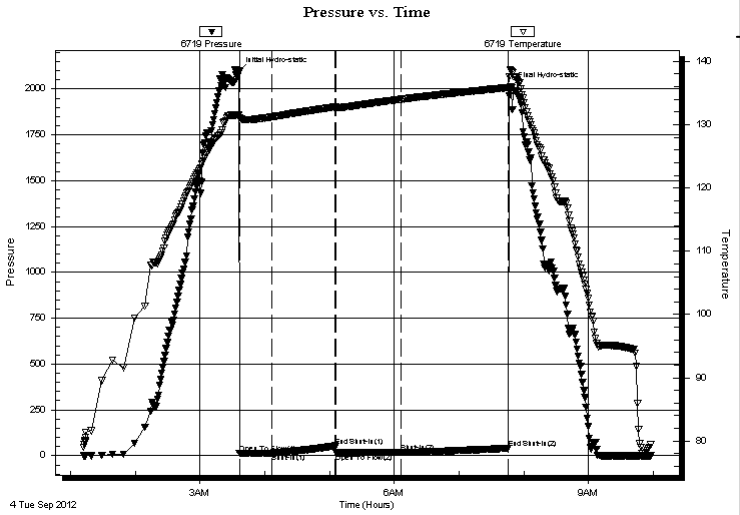
Reference Elevations: 3140.00 ft (KB)
3129.00 ft (CF)
KB to GR/CF: 11.00 ft

**Serial #: 6719** **Inside**

Press@RunDepth: 16.97 psig @ 4177.00 ft (KB)
Start Date: 2012.09.04 End Date: 2012.09.04
Start Time: 01:12:05 End Time: 09:58:00

Capacity: 8000.00 psig
Last Calib.: 2012.09.04
Time On Btm: 2012.09.04 @ 03:36:00
Time Off Btm: 2012.09.04 @ 07:48:00

TEST COMMENT:
30 - IF: Surface blow at open, did not build, dead at 9 min.
60 - ISI: No blow back
60 - FF: No blow
90 - FSI: No blow back




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2093.87 | 131.53 | Initial Hydro-static |
| 1 | 13.05 | 131.13 | Open To Flow (1) |
| 31 | 14.68 | 131.23 | Shut-In(1) |
| 89 | 53.53 | 132.80 | End Shut-In(1) |
| 90 | 15.47 | 132.71 | Open To Flow (2) |
| 150 | 16.97 | 134.01 | Shut-In(2) |
| 250 | 40.17 | 135.86 | End Shut-In(2) |
| 252 | 2011.49 | 138.51 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 5.00 | SOCM 97%m, 3%o | 0.02 |
| | | |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

## Gas Rates

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

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco LLC.

2020 N. Bramblew ood
Wichita, Ks. 67206

ATTN: Bryan Bynog

**9-15S-37W Cheyenne Ks.**

**Mears A #1-9**

Job Ticket: 48134 **DST#: 4**

Test Start: 2012.09.04 @ 01:12:00

## Mud and Cushion Information

| | | | | | |
|---|---|---|---|---|---|
| Mud Type: | Gel Chem | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | 9.00 lb/gal | Cushion Length: | ft | Water Salinity: | ppm |
| Viscosity: | 52.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 7.56 in³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 1600.00 ppm | | | | |
| Filter Cake: | 2.00 inches | | | | |

## Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|---|---|---|
| 5.00 | SOCM 97%m, 3%o | 0.025 |

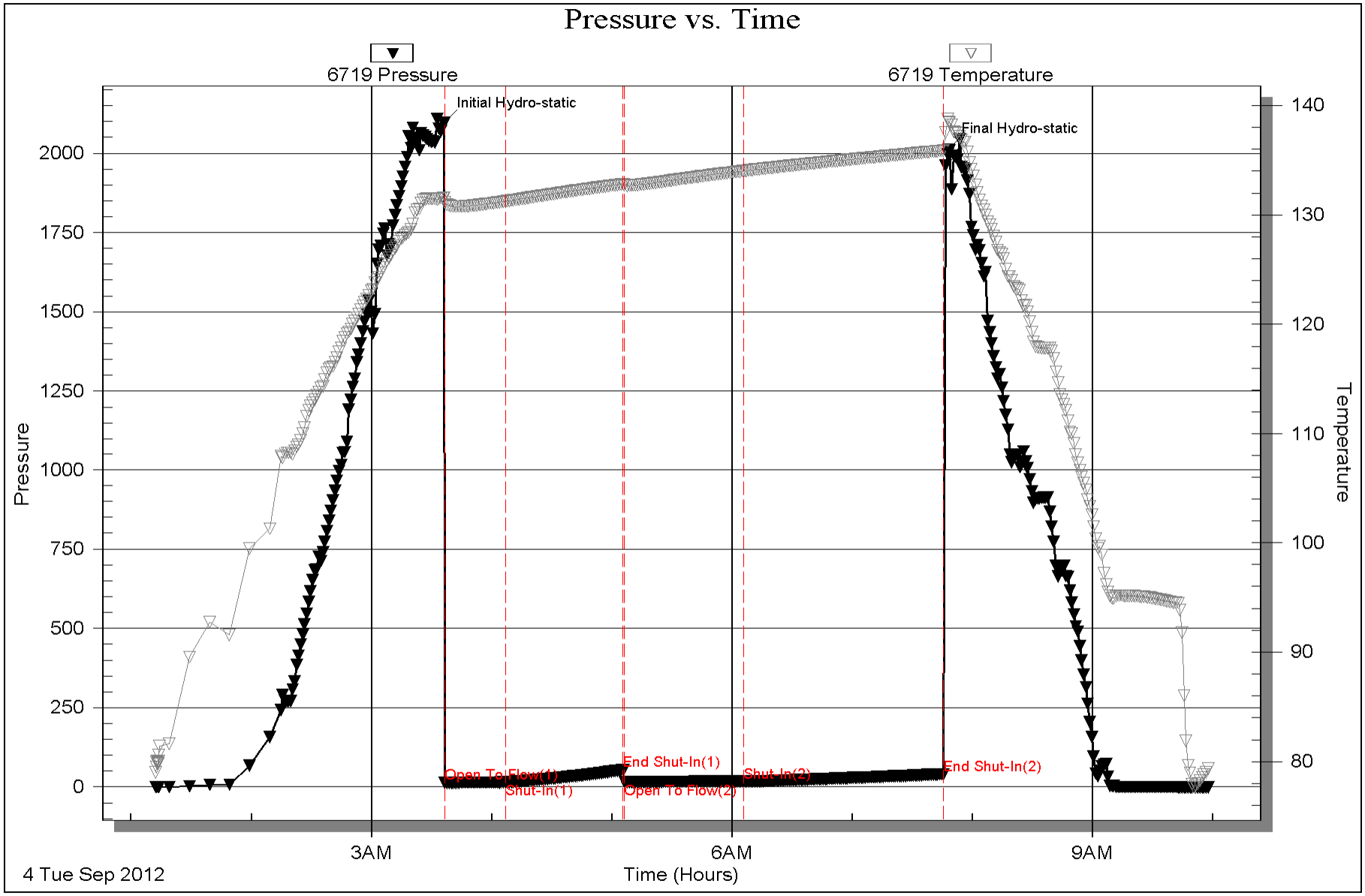
Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6719 **Inside** Berexco LLC. Mears A #1-9 DST Test Number: 4




Trilobite Testing, Inc Ref. No: 48134 Printed: 2012.09.04 @ 17:53:43

# DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Berexco LLC.

2020 N. Bramblewood
Wichita, Ks. 67206

ATTN: Bryan Bynog

**9-15S-37W Cheyenne Ks.**

**Mears A #1-9**

Job Ticket: 48135 **DST#: 5**

Test Start: 2012.09.05 @ 02:15:00

## GENERAL INFORMATION:

Formation: **LKC "D - E"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:50:00
Time Test Ended: 11:37:30

Test Type: Conventional Bottom Hole (Reset)
Tester: James Winder
Unit No: #57

**Interval: 4215.00 ft (KB) To 4310.00 ft (KB) (TVD)**
Total Depth: 4310.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

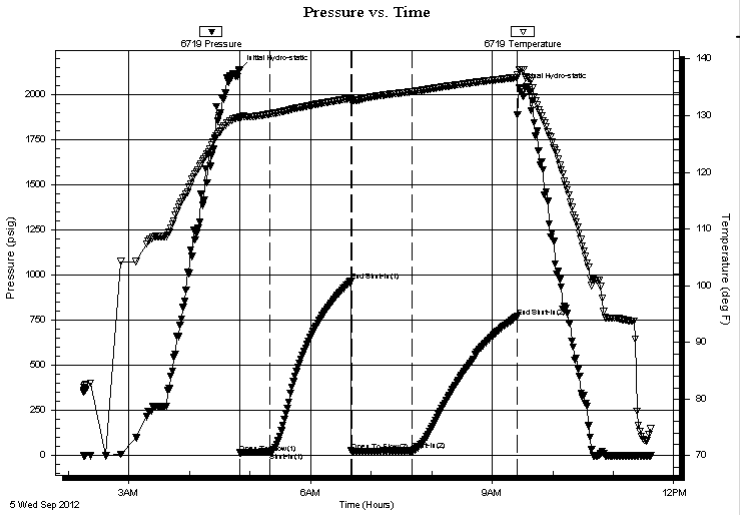
Reference Elevations: 3140.00 ft (KB)
3129.00 ft (CF)
KB to GR/CF: 11.00 ft

**Serial #: 6719** **Inside**

Press@RunDepth: 27.54 psig @ 4216.00 ft (KB)
Start Date: 2012.09.05 End Date: 2012.09.05
Start Time: 02:15:05 End Time: 11:37:30

Capacity: 8000.00 psig
Last Calib.: 2012.09.05
Time On Btm: 2012.09.05 @ 04:49:30
Time Off Btm: 2012.09.05 @ 09:26:30

TEST COMMENT:
30 - IF: 1/4" blow at open, built to 3/8" then died back, dead at 19 min.
60 - ISI: No blow back
60 - FF: No blow
90 - FSI: No blow back




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2138.14 | 129.71 | Initial Hydro-static |
| 1 | 15.60 | 129.57 | Open To Flow (1) |
| 30 | 20.81 | 130.28 | Shut-In(1) |
| 110 | 964.74 | 133.07 | End Shut-In(1) |
| 111 | 23.20 | 132.78 | Open To Flow (2) |
| 171 | 27.54 | 134.24 | Shut-In(2) |
| 275 | 770.11 | 136.74 | End Shut-In(2) |
| 277 | 2037.75 | 138.04 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 45.00 | SOCM 99%m, 1%o | 0.22 |
| | | |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

## Gas Rates

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

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco LLC.

2020 N. Bramblewood
Wichita, Ks. 67206

ATTN: Bryan Bynog

**9-15S-37W Cheyenne Ks.**

**Mears A #1-9**

Job Ticket: 48135 **DST#: 5**

Test Start: 2012.09.05 @ 02:15:00

## Mud and Cushion Information

| | | | | | |
|---|---|---|---|---|---|
| Mud Type: | Gel Chem | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | 9.00 lb/gal | Cushion Length: | ft | Water Salinity: | ppm |
| Viscosity: | 48.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 6.80 in³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 1500.00 ppm | | | | |
| Filter Cake: | 2.00 inches | | | | |

## Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|---|---|---|
| 45.00 | SOCM 99%m, 1%o | 0.221 |

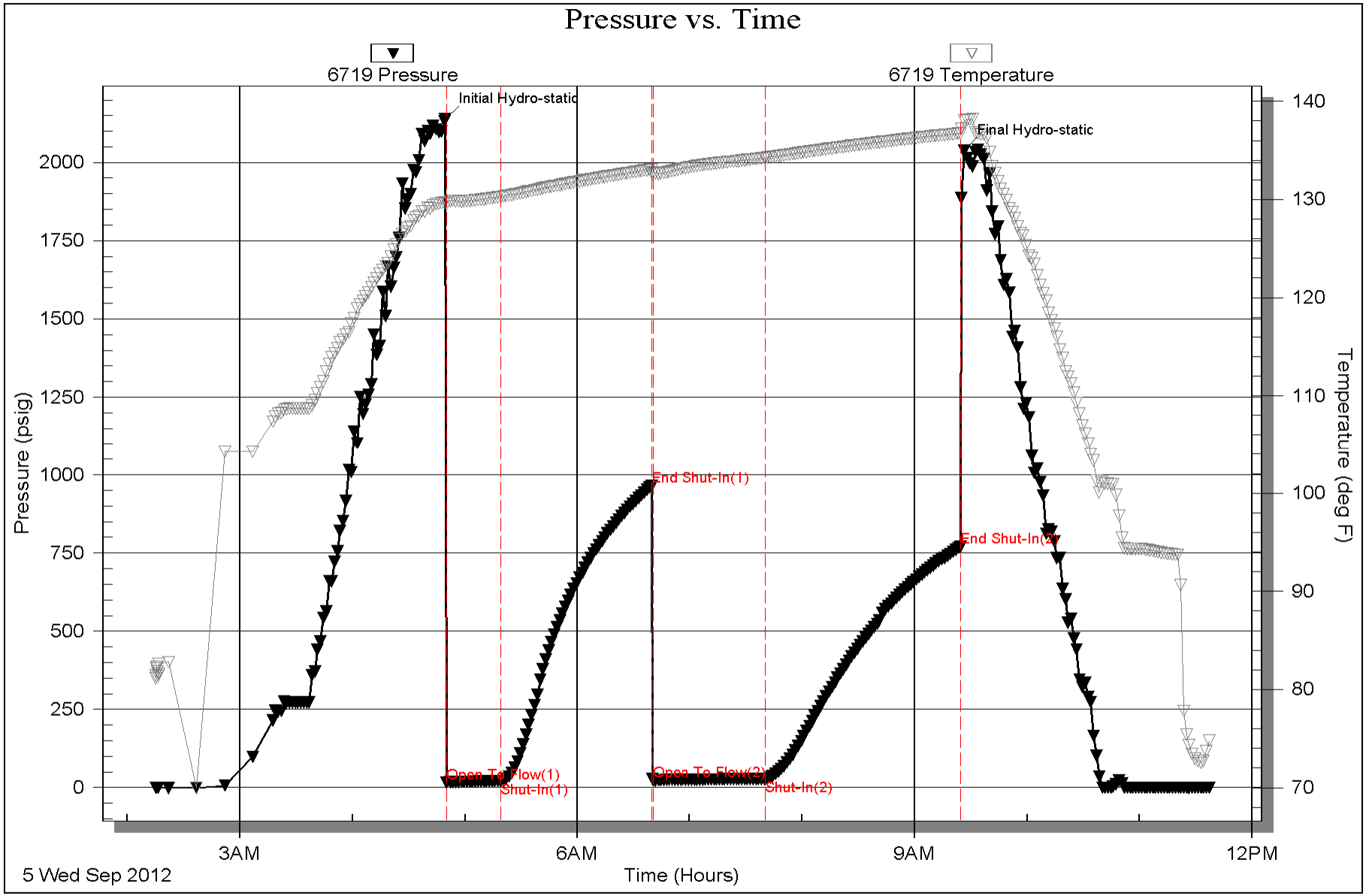
Total Length: 45.00 ft Total Volume: 0.221 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6719 **Inside** Berexco LLC. Mears A #1-9 DST Test Number: 5




Trilobite Testing, Inc Ref. No: 48135 Printed: 2012.09.05 @ 11:54:45

# DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Berexco LLC.

2020 N. Bramblewood
Wichita, Ks. 67206

ATTN: Bryan Bynog

**9-15S-37W Cheyenne Ks.**

**Mears A #1-9**

Job Ticket: 48136 **DST#: 6**

Test Start: 2012.09.06 @ 10:55:00

## GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:14:30
Time Test Ended: 22:10:00

Test Type: Conventional Bottom Hole (Reset)
Tester: James Winder
Unit No: #57

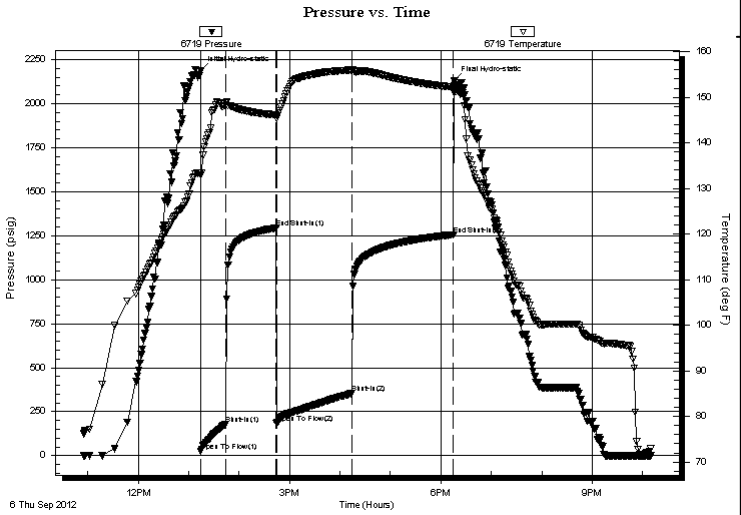
**Interval: 4460.00 ft (KB) To 4500.00 ft (KB) (TVD)**
Total Depth: 4500.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3140.00 ft (KB)
3129.00 ft (CF)
KB to GR/CF: 11.00 ft

**Serial #: 6719** **Inside**

| | | | | | |
|---|---|---|---|---|---|
| Press@RunDepth: | 353.56 psig @ | 4461.00 ft (KB) | | Capacity: | 8000.00 psig |
| Start Date: | 2012.09.06 | End Date: | 2012.09.06 | Last Calib.: | 2012.09.06 |
| Start Time: | 10:55:05 | End Time: | 22:10:00 | Time On Btm: | 2012.09.06 @ 13:14:00 |
| | | | | Time Off Btm: | 2012.09.06 @ 18:16:00 |

TEST COMMENT:
30 - IF: Blow built to BOB (11") in 12 min.
60 - ISI: Bled off, Blow back built to 2"
90 - FF: Blow built to BOB in 15 1/2 min.
120 - FSI: Bled off, Blow back built to BOB at 14 1/2 min.




## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|---|---|---|---|
| 0 | 2185.61 | 133.46 | Initial Hydro-static |
| 1 | 25.41 | 133.02 | Open To Flow (1) |
| 31 | 181.26 | 148.90 | Shut-In(1) |
| 90 | 1293.54 | 146.15 | End Shut-In(1) |
| 91 | 185.41 | 145.38 | Open To Flow (2) |
| 180 | 353.56 | 156.00 | Shut-In(2) |
| 301 | 1256.22 | 152.24 | End Shut-In(2) |
| 302 | 2128.75 | 151.66 | Final Hydro-static |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|---|---|---|
| 119.00 | SOMCW 88%w , 10%m, 2%o | 0.59 |
| 674.00 | Rev. Out Samples at 3 min. intervals | 5.60 |
| 0.00 | 12, 15, 18 min. OCWM 46%m, 46%w , 8% | 0.00 |
| 0.00 | 9 min. WOM 44%m, 31%o, 25%w | 0.00 |
| 0.00 | 3, 6 min. CGO 89%o, 10%g, 1%m | 0.00 |
| 55.00 | CGO 85%o, 17%g, 1%m | 0.77 |

* Recovery from multiple tests

## Gas Rates

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

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco LLC.

2020 N. Bramblew ood
Wichita, Ks. 67206

ATTN: Bryan Bynog

**9-15S-37W Cheyenne Ks.**

**Mears A #1-9**

Job Ticket: 48136 **DST#: 6**

Test Start: 2012.09.06 @ 10:55:00

## Mud and Cushion Information

| | | | | | |
|---|---|---|---|---|---|
| Mud Type: | Gel Chem | Cushion Type: | | Oil API: | 35.6 deg API |
| Mud Weight: | 9.00 lb/gal | Cushion Length: | ft | Water Salinity: | 41000 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: | 1500.00 ppm | | | | |
| Filter Cake: | 2.00 inches | | | | |

## Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|---|---|---|
| 119.00 | SOMCW 88%w , 10%m, 2%o | 0.585 |
| 674.00 | Rev. Out Samples at 3 min. intervals | 5.601 |
| 0.00 | 12, 15, 18 min. OCWM 46%m, 46%w , 8%o | 0.000 |
| 0.00 | 9 min. WOM 44%m, 31%o, 25%w | 0.000 |
| 0.00 | 3, 6 min. CGO 89%o, 10%g, 1%m | 0.000 |
| 55.00 | CGO 85%o, 17%g, 1%m | 0.772 |
| 0.00 | GIP = 1000' | 0.000 |

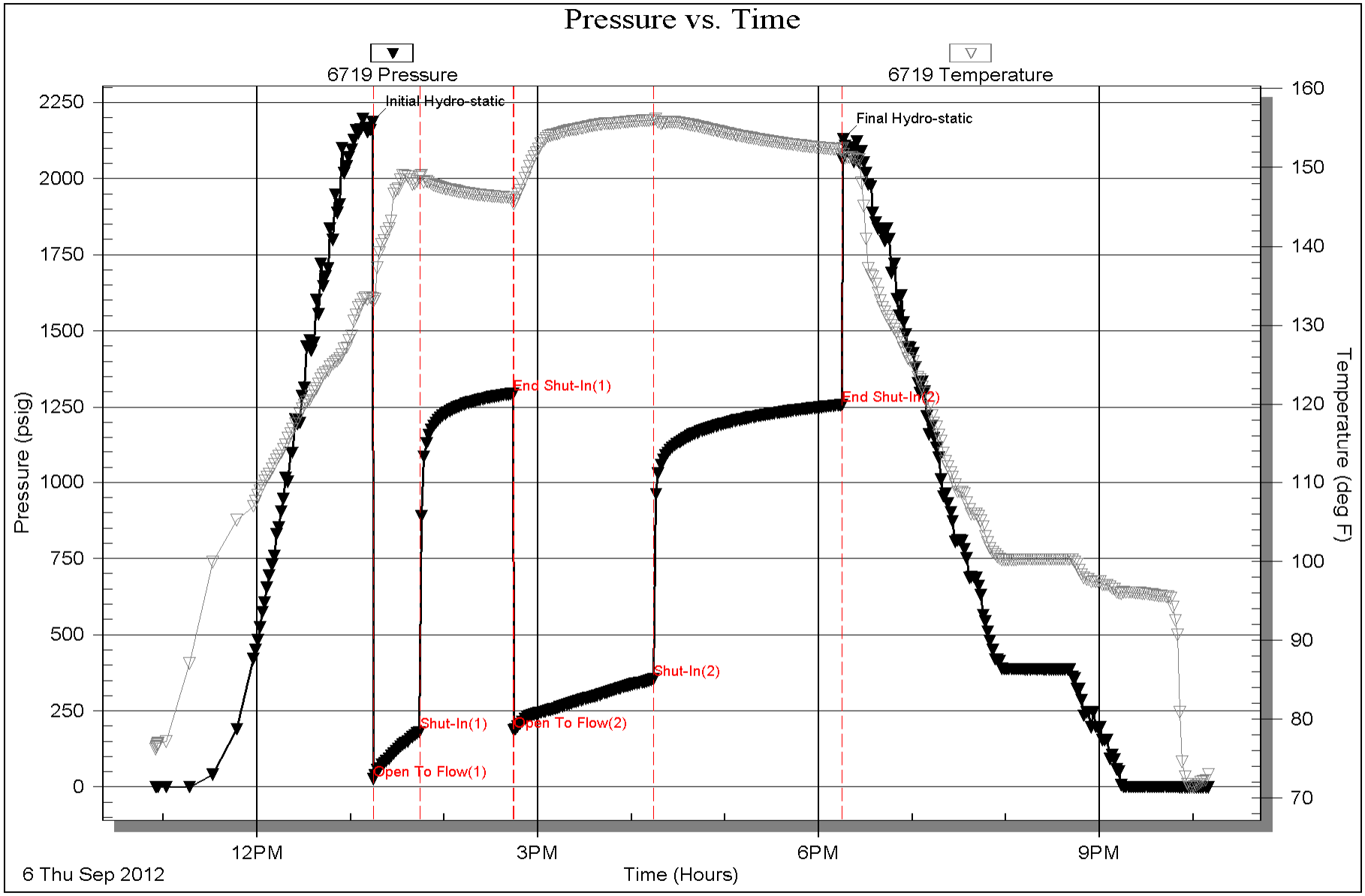
Total Length: 848.00 ft Total Volume: 6.958 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 37.6 api @ 80 deg F Corrected Gravity = 35.6 api
RW = .164 ohms @ 80 deg F Chlorides = 41,000 ppm

Serial #: 6719 **Inside** Berexco LLC. Mears A #1-9 DST Test Number: 6




Trilobite Testing, Inc Ref. No: 48136 Printed: 2012.09.07 @ 06:29:30

# ALLIED OIL & GAS SERVICES, LLC 056685

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Oakley

| DATE 9-10-12 | SEC. 9 | TWP. 1 | RANGE 37 | CALLED OUT | ON LOCATION 10:00 pm | JOB START 4:30 pm | JOB FINISH 5:30 pm |
|---|---|---|---|---|---|---|---|
| LEASE Mears | WELL# A 1-9 | | LOCATION Bird City 13 N - 3½ E - 3¼ N | | | COUNTY Cheyenne | STATE Ks. |
| OLD OR NEW (Circle one) | | | Einta | | | | |

CONTRACTOR Beredco #10

OWNER Same

TYPE OF JOB

HOLE SIZE 7 7/8 T.D. 5142'

CASING SIZE 5½ DEPTH 5139.53

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 48.60

CEMENT LEFT IN CSG. 49.64

PERFS.

DISPLACEMENT 121.28

## EQUIPMENT

PUMP TRUCK CEMENTER Darren Racette
# 423-281 HELPER LaRene Wentz
BULK TRUCK
# 540-287 DRIVER Brandon Wilkison
BULK TRUCK
# 396-306 DRIVER Jermey Sterger

## CEMENT

AMOUNT ORDERED 500 sks Lite 3% Flosea
275 sks Com 10% salt 2% Gel ¼# Gilsonite

| | | | |
|---|---|---|---|
| COMMON | 275 sks | @ $17.90 | $4922.50 |
| POZMIX | | @ | |
| GEL | 5 sks | @ $23.40 | $117.00 |
| CHLORIDE | | @ | |
| ASC | | @ | |
| | 500 sks Lite | @ $15.95 | $7975.00 |
| Salt | 26 sks | @ $26.35 | $685.10 |
| Gilsonite | 1325 # | @ .98 | $1298.50 |
| Flosea | 375 # | @ $2.97 | $1113.75 |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| HANDLING | 910.76 CF x | @ $2.48 | $2258.68 |
| MILEAGE | 32.91 x 50 x | $2.60 | $4928.30 |

1895.50

TOTAL $23298.83

## REMARKS:

Plug mouse hole 10 sks Plug Rat hole 15 sks
mix 475 sks Lite + 275 sks com Down Casing
wash up Pump & lines Displace Plug 900# Lift
1700# Land plug Float Held Cement circulated

Thank You.

## SERVICE

DEPTH OF JOB 5139.53'

| | | | |
|---|---|---|---|
| PUMP TRUCK CHARGE | | | $3099.25 |
| EXTRA FOOTAGE | | @ | |
| MILEAGE | 50 | @ $7.70 | $385.00 |
| MANIFOLD | Head | @ | NC |
| | L.V. mileage | @ | NC |
| | | @ | |

TOTAL $3484.25

CHARGE TO: Berexco

STREET

CITY STATE ZIP

## PLUG & FLOAT EQUIPMENT

5½ Industrial Rubber

| | | |
|---|---|---|
| 1-AFU Float Shoe | @ 232.00 | 232.00 |
| 1-Latch Down Plug Assy | @ 184.00 | 184.00 |
| 24-Centralizers | @ 37.00 | 888.00 |
| 44-Respricating Scratchers | @ 46.00 | 2,024.00 |
| 5-Baskets | @ 178.00 | 890.00 |

TOTAL 4,218

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) 1687.37

TOTAL CHARGES 31,001.08

DISCOUNT 8370.29 IF PAID IN 30 DAYS

PRINTED NAME

SIGNATURE Ed Hayes

27%

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 08, 2012

Rodney Reynolds
BEREXCO LLC
2020 N. BRAMBLEWOOD
WICHITA, KS 67206-1094

Re: ACO1
API 15-023-21354-00-00
Mears A 1-9
NE/4 Sec.09-01S-37W
Cheyenne County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Rodney Reynolds

# LITHOLOGY STRIP LOG

## WellSight Systems

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

| | |
|---|---|
| Well Name: | MEARS A # 1-9 |
| Location: | SENE 9 1S-37W CHEYENNE COUNTY, KANSAS |
| License Number: | 15-023-21354 |
| Region: | MIDCONTINENT |
| Spud Date: | 8-25-2012 |
| Drilling Completed: | 8-10-2012 |
| Surface Coordinates: | 1820' FNL & 620' EEL |
| Bottom Hole Coordinates: | |
| Ground Elevation (ft): | 3129 |
| K.B. Elevation (ft): | 3140 |
| Logged Interval (ft): | 3000 To: 5142 |
| Total Depth (ft): | 5142 |
| Formation: | LKC, PAWNEE & MISSISSIPPIAN |
| Type of Drilling Fluid: | FRESH |

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

## OPERATOR

Company: BEREXCO, LLC.
Address: 2020 N. BRAMBLEWOOD
WICHITA, KS. 67206

## GEOLOGIST

Name: WILLIAM B. BYNOG
Company:
Address: P.O. BOX 687
PINECLIFFE, CO. 80471
303-642-3681 OFFICE

## SURVEYS

| DEPTH | ANGLE |
|---|---|
| 310 | 3/4 |
| 3301 | 1 1/4 |
| 3720 | 1 |
| 4220 | 3/4 |

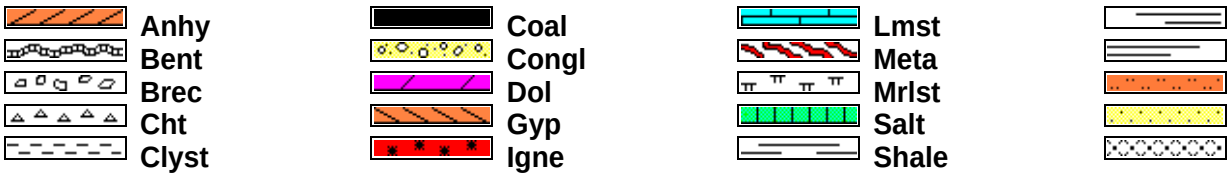
## DSTs

DST#1 3630-3720, DST#2 3920-4035, DST#3 4030-4180, DST#4 4176-4220, DST#5 4215-4310, DST#6 4460-4500

## Comments

SET PRODUCTION CASING

## ROCK TYPES



## ACCESSORIES

### MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

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

### STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

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

## OTHER SYMBOLS

### POROSITY
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

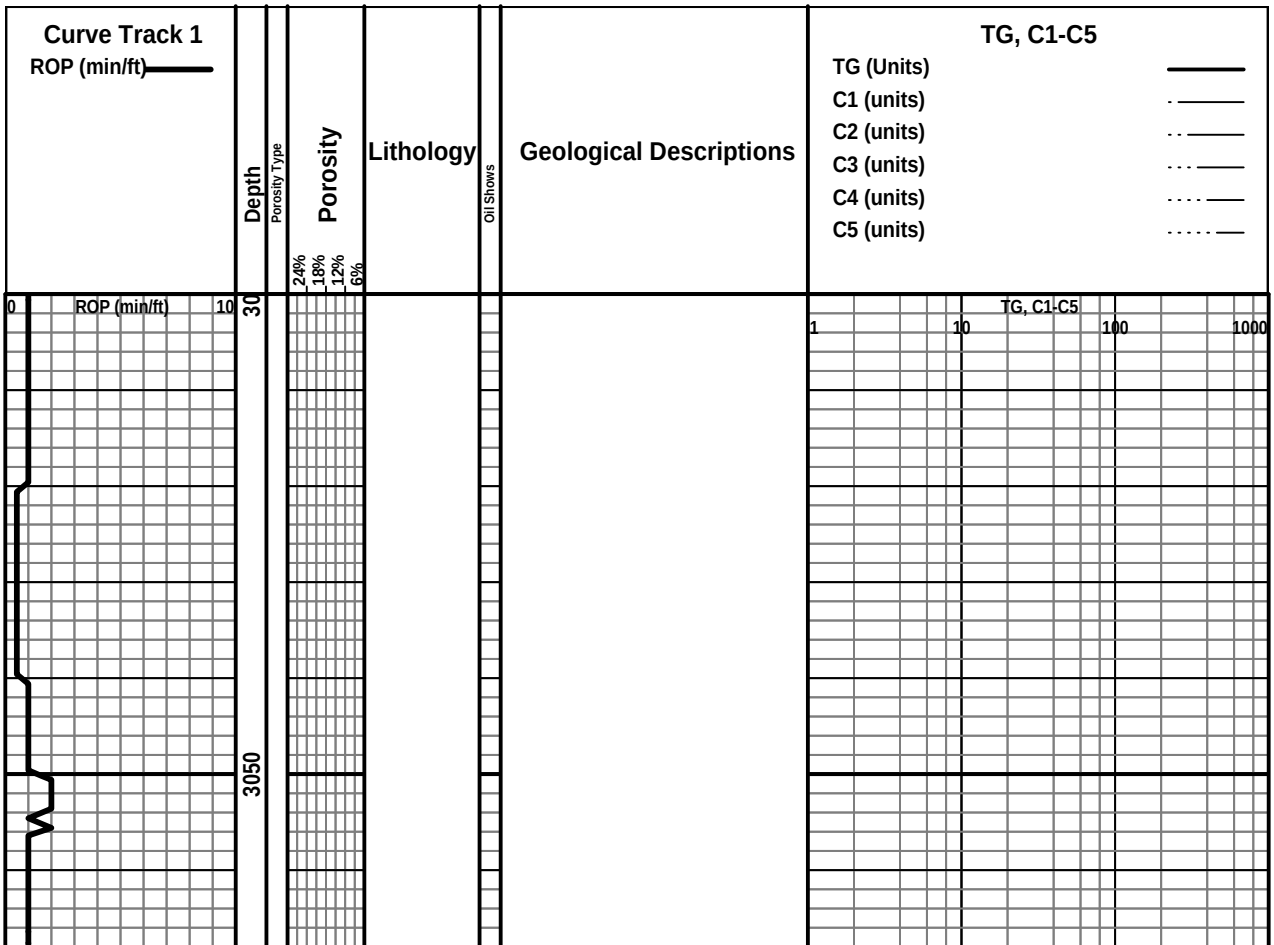
### SORTING
- Well
- Moderate
- Poor

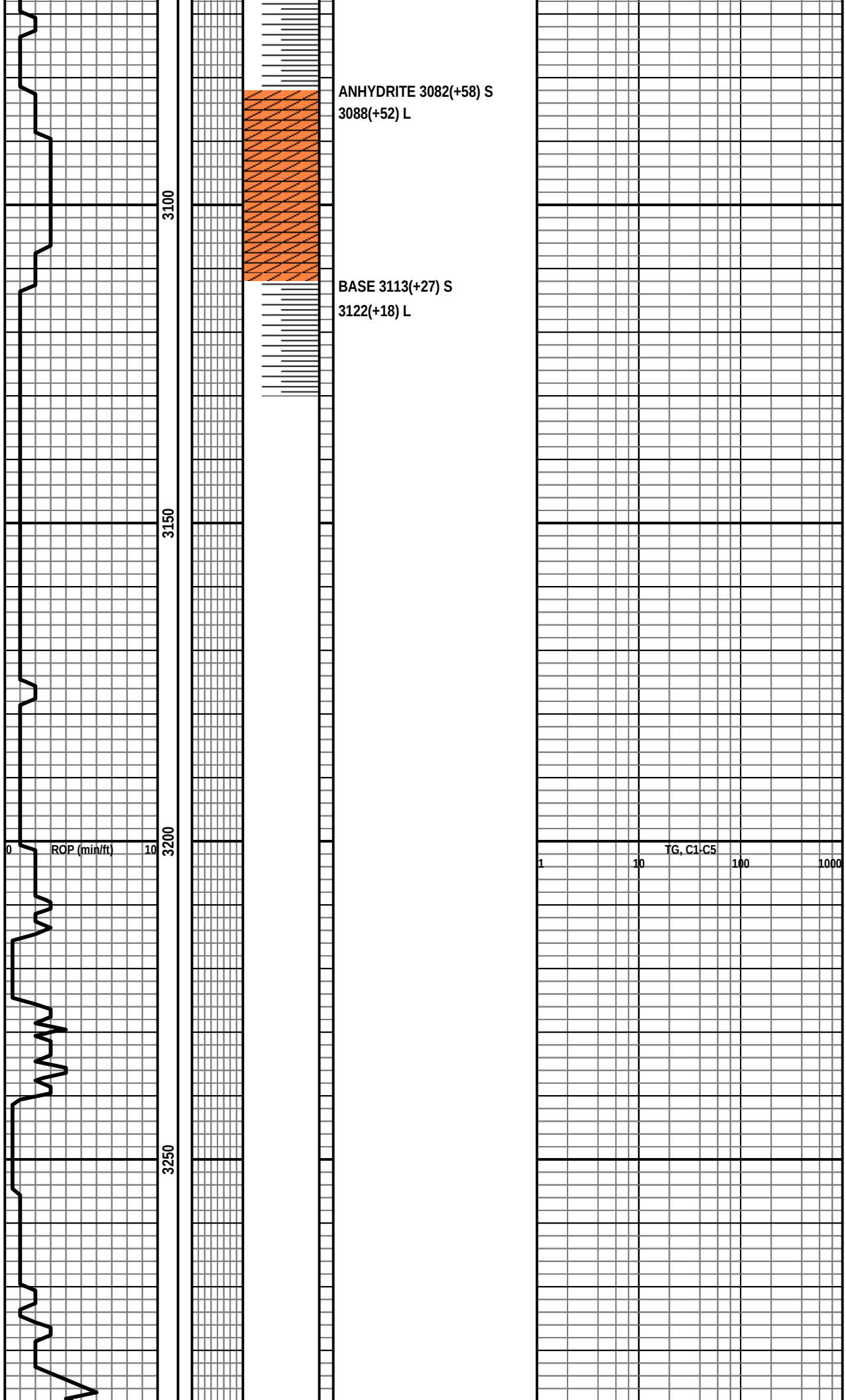
### ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

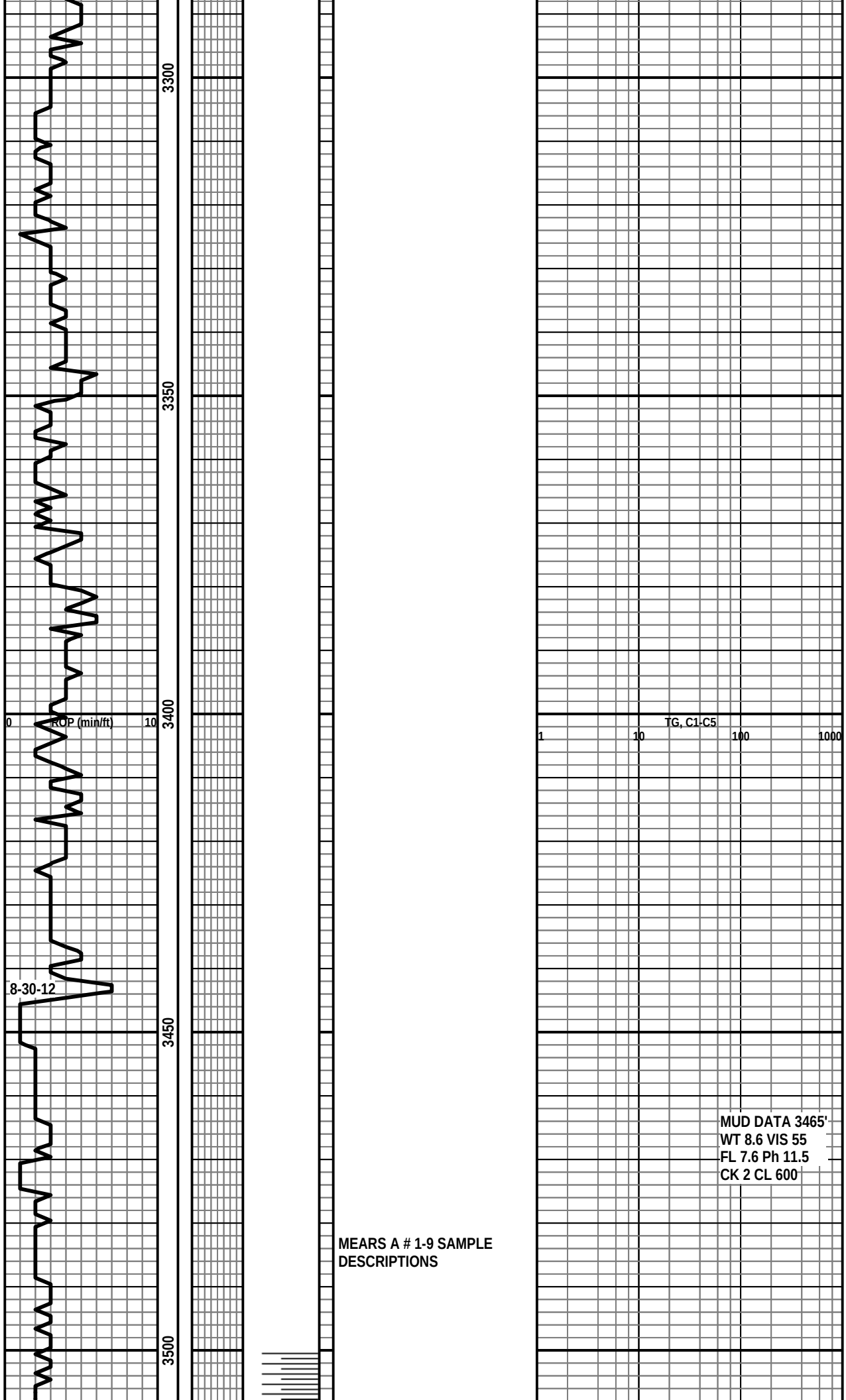
### OIL SHOW
- Even
- Spotted
- Ques
- Dead

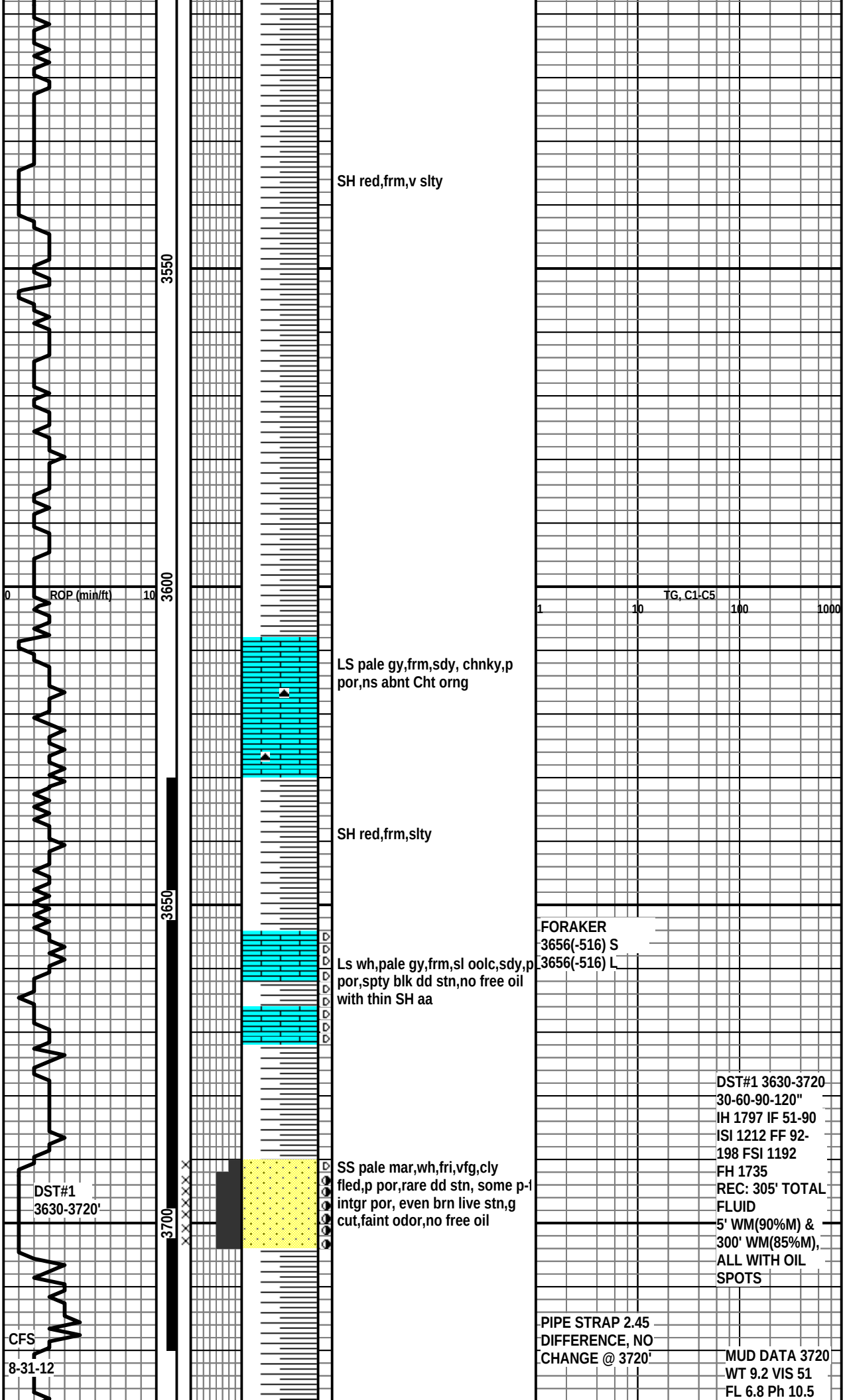
### INTERVAL
- Dst
- Dst

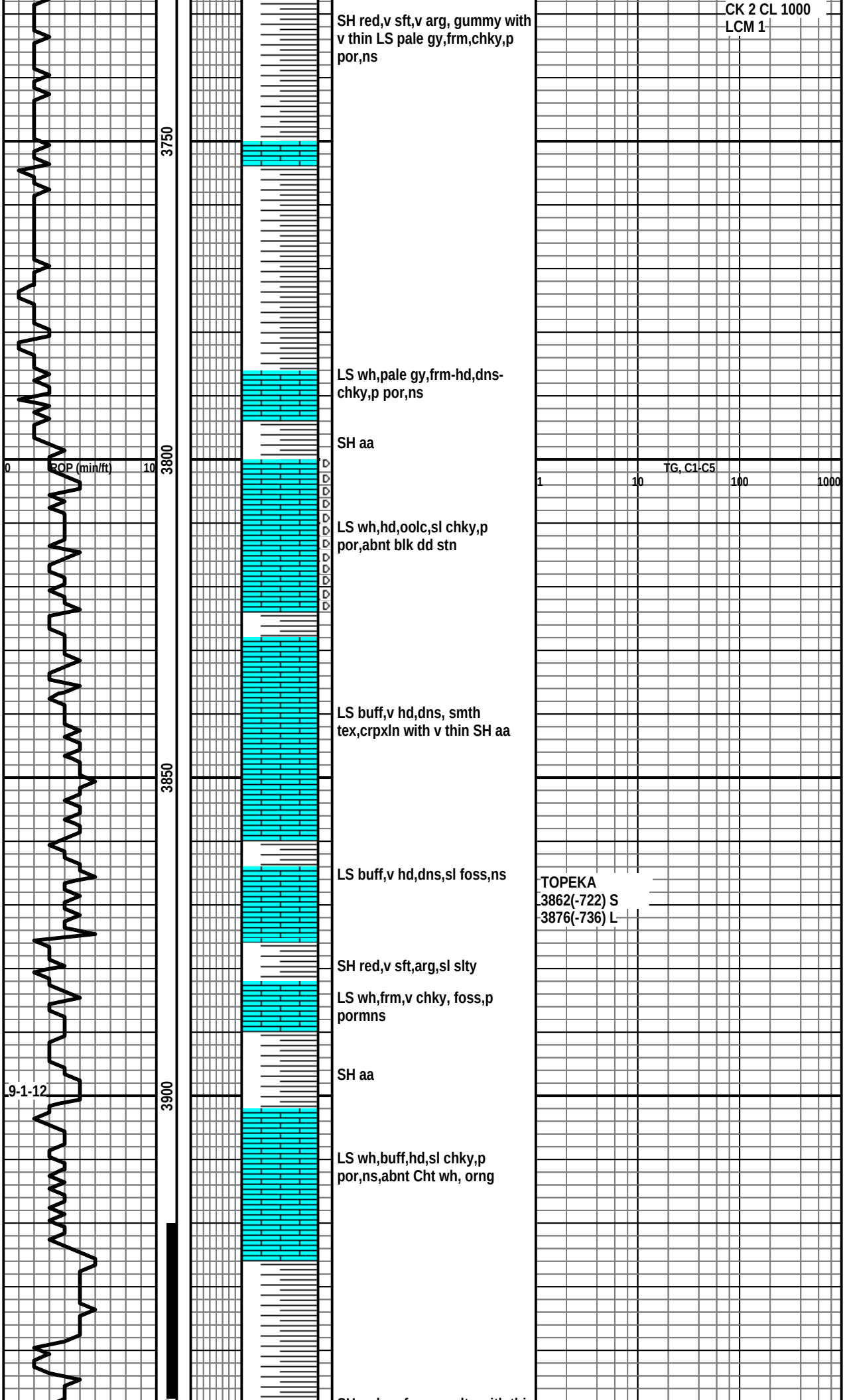
### EVENT
- Rft
- Sidewall

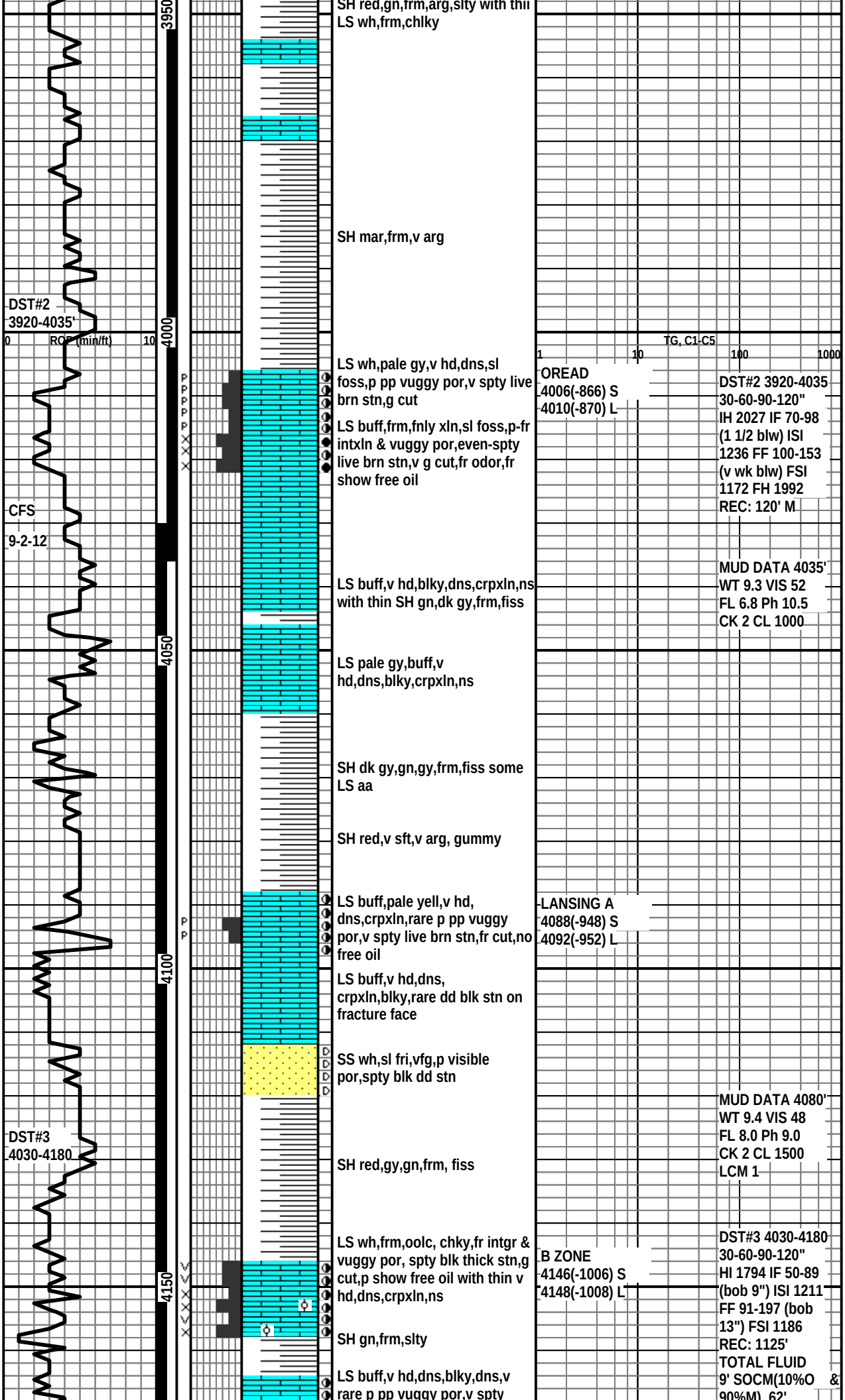


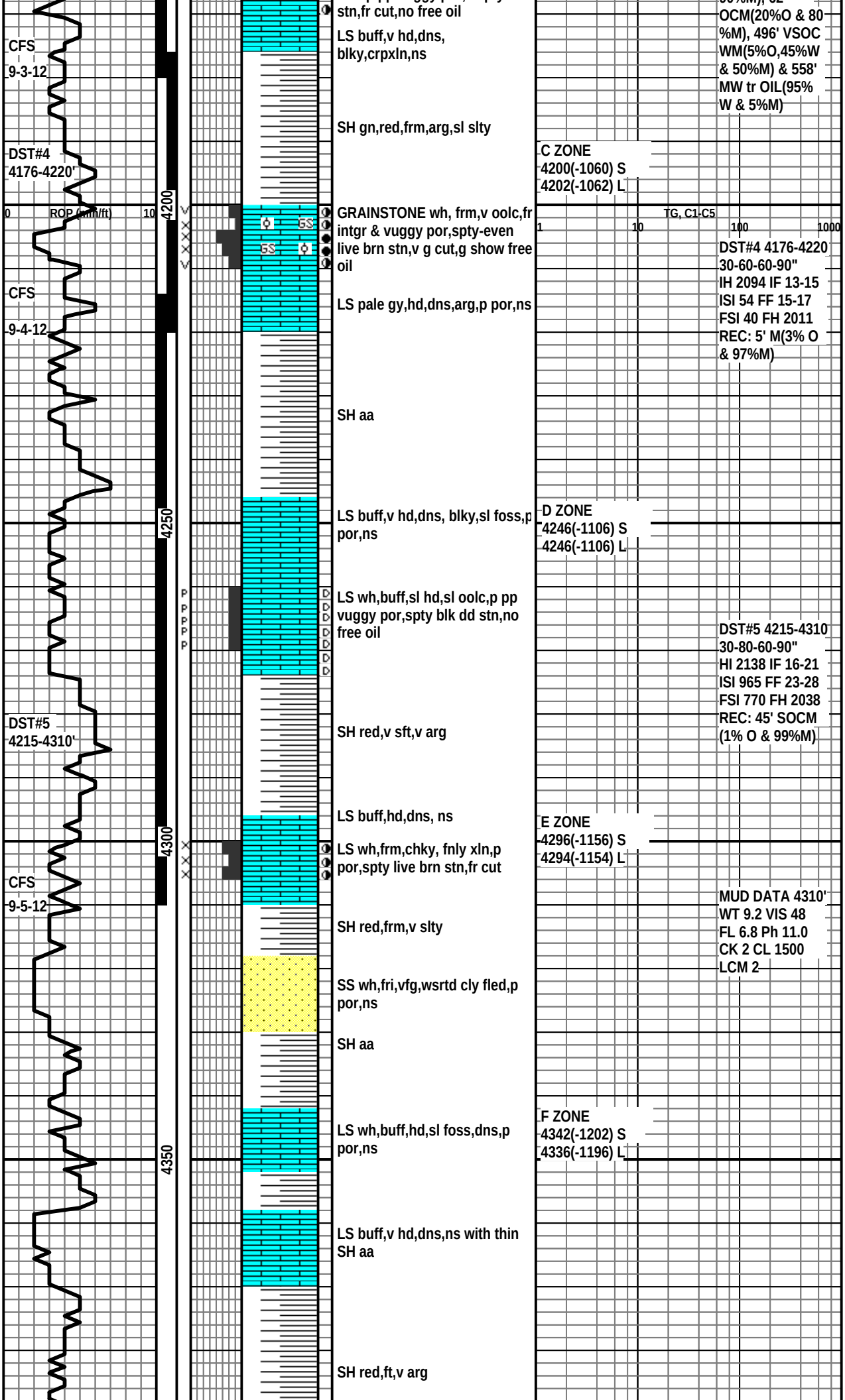

ANHYDRITE 3082(+58) S
3088(+52) L
BASE 3113(+27) S
3122(+18) L
3100
3150
3200
3250
0
ROP (min/ft)
10
TG, C1-C5
1
10
100
1000

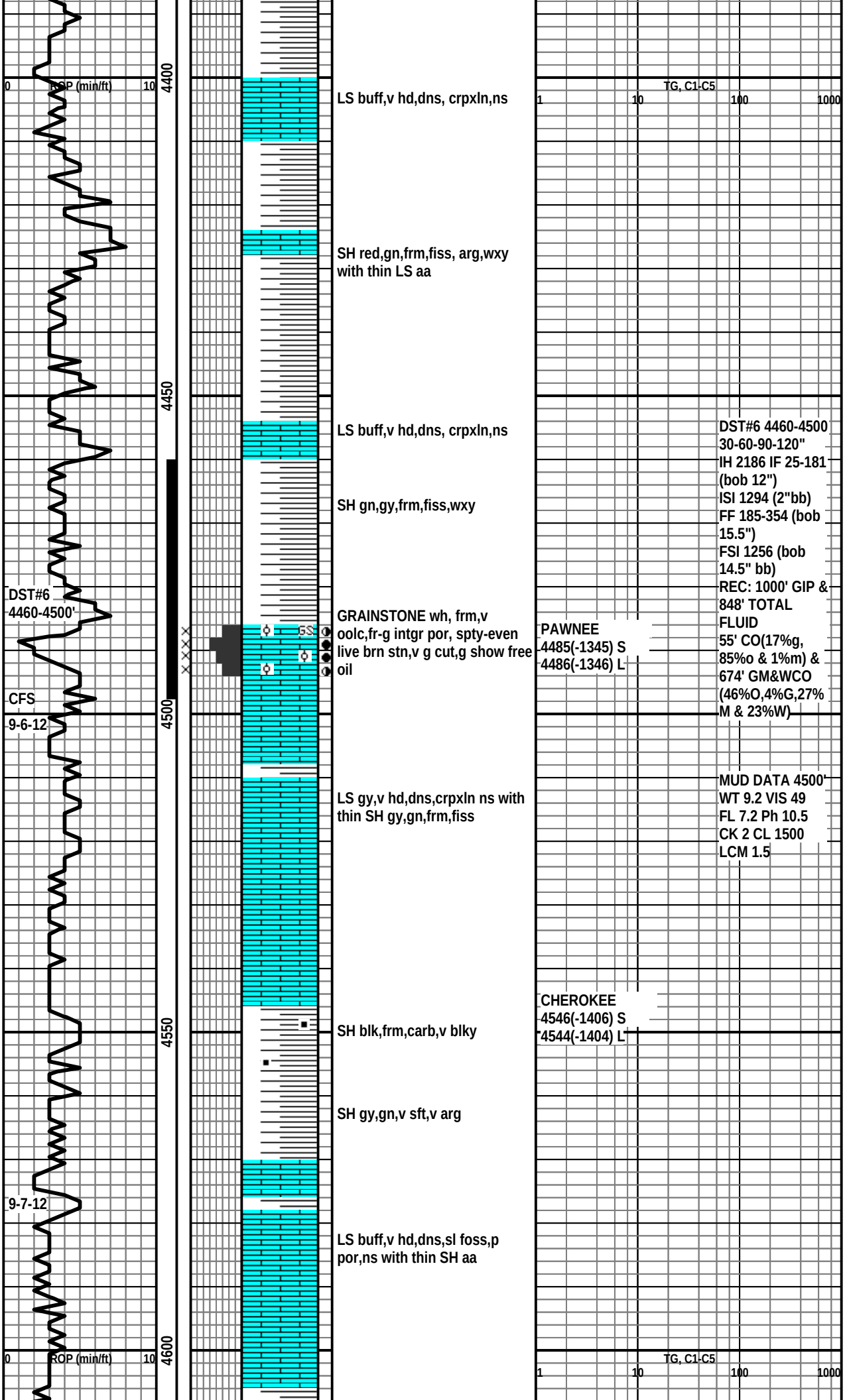

3300
3350
3400
3450
3500
0
ROP (min/ft)
10
8-30-12
TG, C1-C5
1
10
100
1000
MUD DATA 3465'
WT 8.6 VIS 55
FL 7.6 Ph 11.5
CK 2 CL 600
MEARS A # 1-9 SAMPLE
DESCRIPTIONS

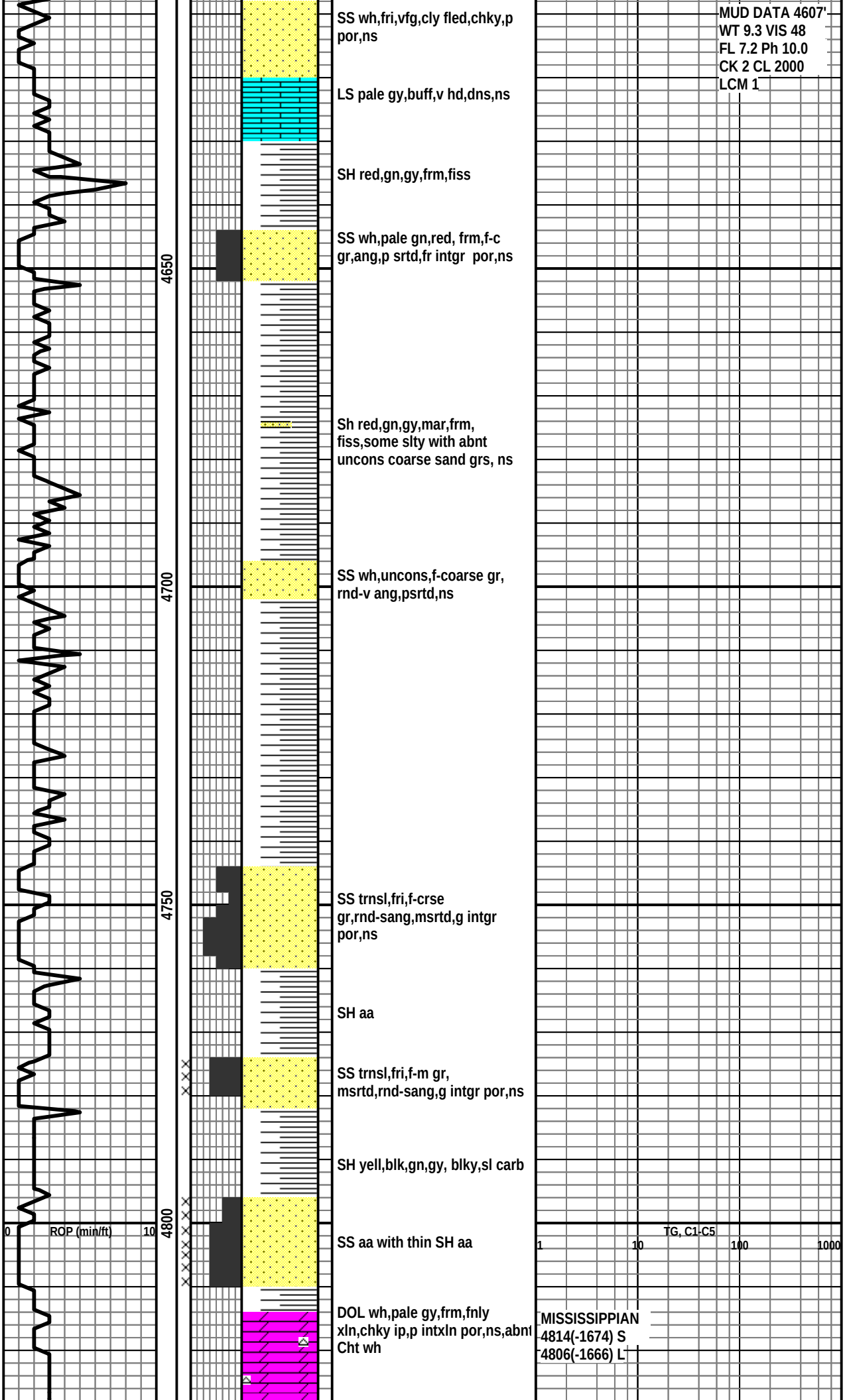

3550
3600
3650
3700
0
ROP (min/ft)
10
TG, C1-C5
1
10
100
1000
SH red,frm,v slty
LS pale gy,frm,sdy, chnky,p
por,ns abnt Cht orng
SH red,frm,slty
FORAKER
3656(-516) S
3656(-516) L
Ls wh,pale gy,frm,sl oolc,sdy,p
por,spty blk dd stn,no free oil
with thin SH aa
DST#1 3630-3720
30-60-90-120"
IH 1797 IF 51-90
ISI 1212 FF 92-
198 FSI 1192
FH 1735
REC: 305' TOTAL
FLUID
5' WM(90%M) &
300' WM(85%M),
ALL WITH OIL
SPOTS
SS pale mar,wh,fri,vfg,cly
fled,p por,rare dd stn, some p-l
intgr por, even brn live stn,g
cut,faint odor,no free oil
DST#1
3630-3720'
PIPE STRAP 2.45
DIFFERENCE, NO
CHANGE @ 3720'
MUD DATA 3720
WT 9.2 VIS 51
FL 6.8 Ph 10.5
CFS
8-31-12

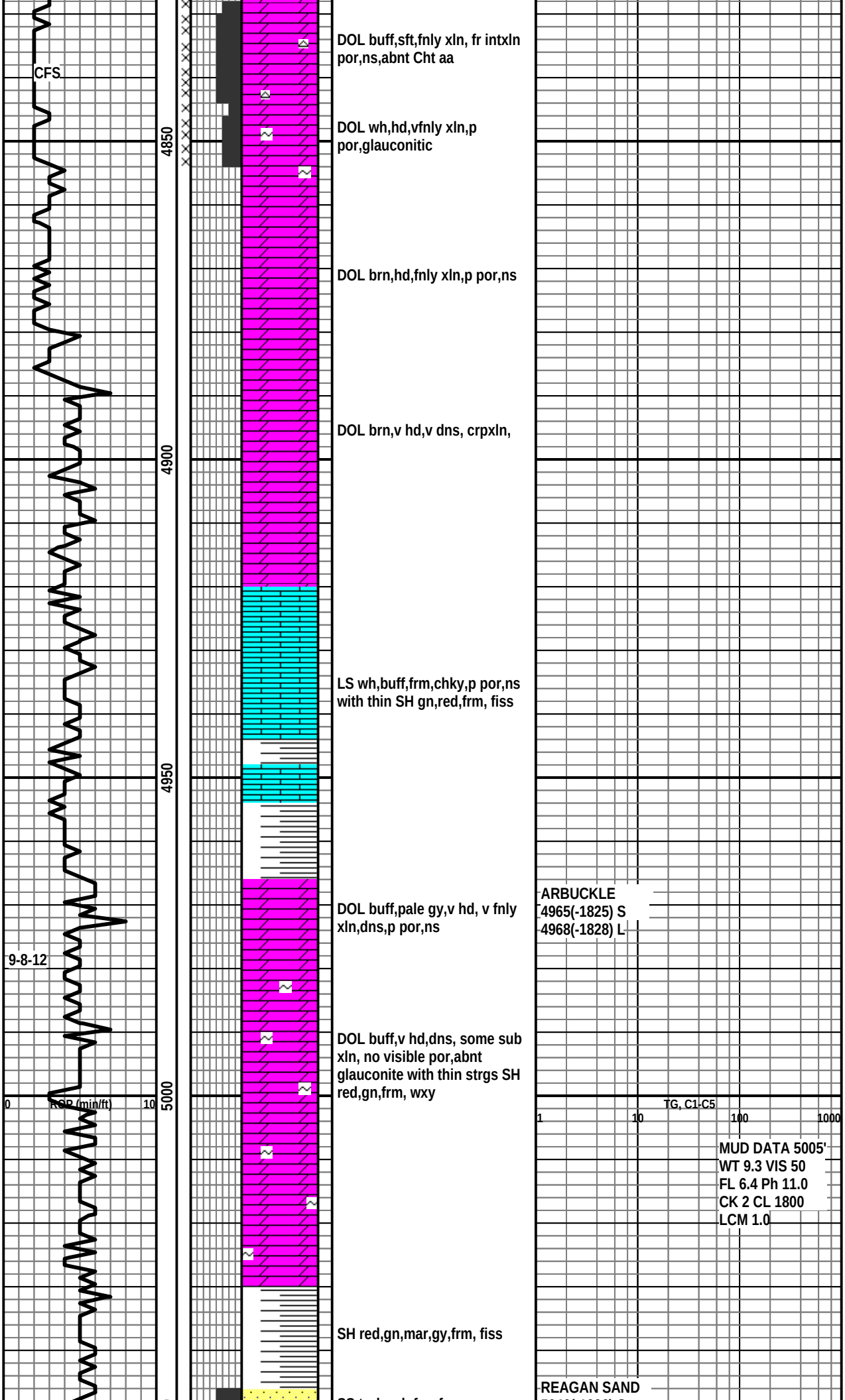

CK 2 CL 1000
LCM 1
3750
3800
3850
3900
0
ROP (min/ft)
10
TG, C1-C5
1
10
100
1000
SH red,v sft,v arg, gummy with v thin LS pale gy,frm,chky,p por,ns
LS wh,pale gy,frm-hd,dns-chky,p por,ns
SH aa
LS wh,hd,oolc,sl chky,p por,abnt blk dd stn
LS buff,v hd,dns, smth tex,crpxln with v thin SH aa
LS buff,v hd,dns,sl foss,ns
TOPEKA
3862(-722) S
3876(-736) L
SH red,v sft,arg,sl slty
LS wh,frm,v chky, foss,p pormns
SH aa
9-1-12
LS wh,buff,hd,sl chky,p por,ns,abnt Cht wh, orng

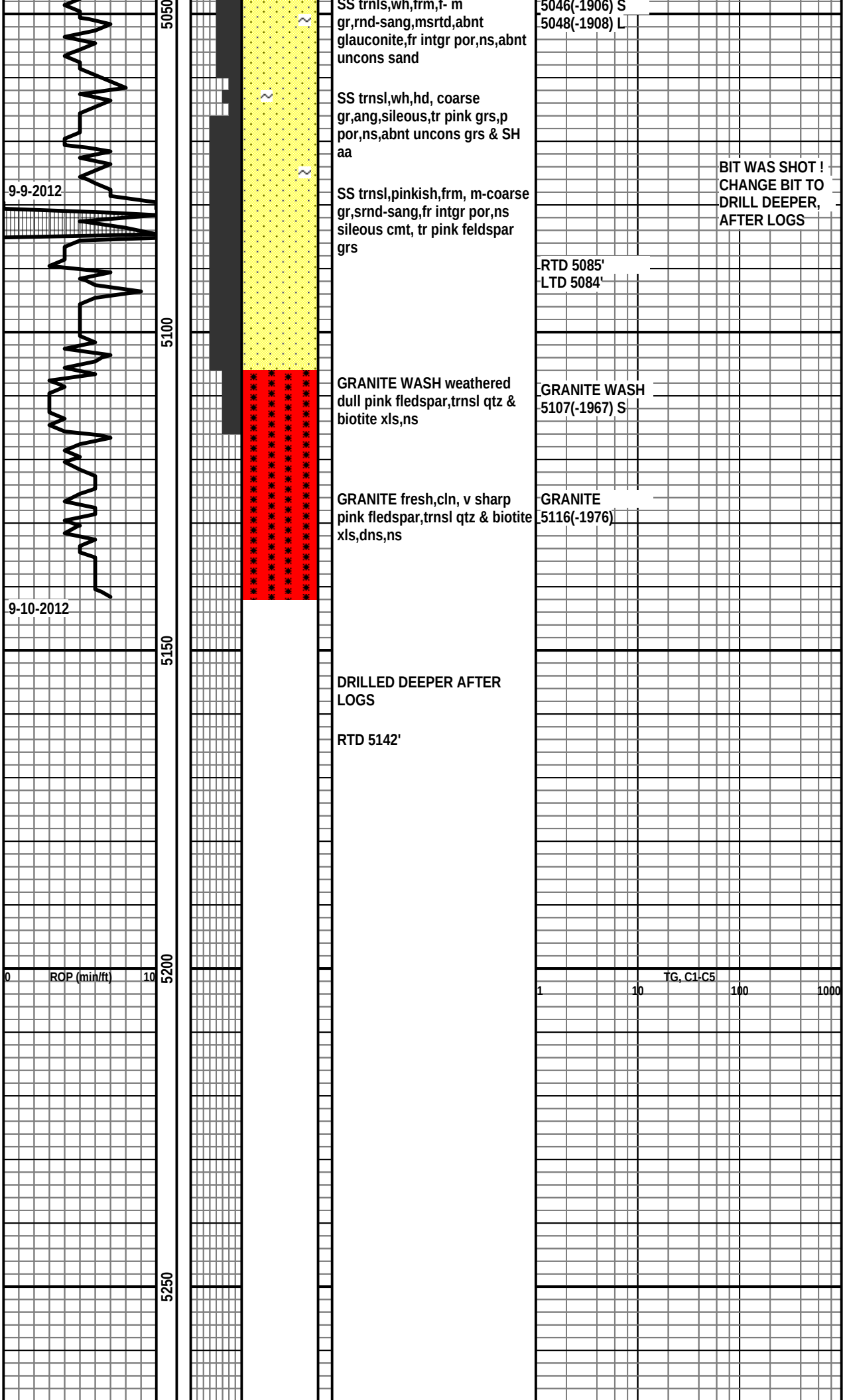

3950
4000
4050
4100
4150
DST#2
3920-4035'
0
ROP (min/ft)
10
CFS
9-2-12
DST#3
4030-4180
TG, C1-C5
1
10
100
1000
SH red,gn,frm,arg,slty with thin
LS wh,frm,chlky
SH mar,frm,v arg
LS wh,pale gy,v hd,dns,sl
foss,p pp vuggy por,v spty live
brn stn,g cut
LS buff,frm,fnly xln,sl foss,p-fr
intxln & vuggy por,even-spty
live brn stn,v g cut,fr odor,fr
show free oil
LS buff,v hd,blky,dns,crpxln,ns
with thin SH gn,dk gy,frm,fiss
LS pale gy,buff,v
hd,dns,blky,crpxln,ns
SH dk gy,gn,gy,frm,fiss some
LS aa
SH red,v sft,v arg, gummy
LS buff,pale yell,v hd,
dns,crpxln,rare p pp vuggy
por,v spty live brn stn,fr cut,no
free oil
LS buff,v hd,dns,
crpxln,blky,rare dd blk stn on
fracture face
SS wh,sl fri,vfg,p visible
por,spty blk dd stn
SH red,gy,gn,frm, fiss
LS wh,frm,oolc, chky,fr intgr &
vuggy por, spty blk thick stn,g
cut,p show free oil with thin v
hd,dns,crpxln,ns
SH gn,frm,slty
LS buff,v hd,dns,blky,dns,v
rare p pp vuggy por,v spty
OREAD
4006(-866) S
4010(-870) L
LANSING A
4088(-948) S
4092(-952) L
B ZONE
4146(-1006) S
4148(-1008) L
DST#2 3920-4035
30-60-90-120"
IH 2027 IF 70-98
(1 1/2 blw) ISI
1236 FF 100-153
(v wk blw) FSI
1172 FH 1992
REC: 120' M
MUD DATA 4035'
WT 9.3 VIS 52
FL 6.8 Ph 10.5
CK 2 CL 1000
MUD DATA 4080'
WT 9.4 VIS 48
FL 8.0 Ph 9.0
CK 2 CL 1500
LCM 1
DST#3 4030-4180
30-60-90-120"
HI 1794 IF 50-89
(bob 9") ISI 1211
FF 91-197 (bob
13") FSI 1186
REC: 1125'
TOTAL FLUID
9' SOCM(10%O &
90%M) 62'


stn,fr cut,no free oil
LS buff,v hd,dns, blky,crpxln,ns
SH gn,red,frm,arg,sl slty
CFS 9-3-12
DST#4 4176-4220'
OCM(20%O & 80 %M), 496' VSOC WM(5%O,45%W & 50%M) & 558' MW tr OIL(95% W & 5%M)
C ZONE 4200(-1060) S 4202(-1062) L
0 ROP (min/ft) 10
4200
GRAINSTONE wh, frm,v oolc,fr intgr & vuggy por,spty-even live brn stn,v g cut,g show free oil
LS pale gy,hd,dns,arg,p por,ns
CFS 9-4-12
TG, C1-C5
1 10 100 1000
DST#4 4176-4220 30-60-60-90" IH 2094 IF 13-15 ISI 54 FF 15-17 FSI 40 FH 2011 REC: 5' M(3% O & 97%M)
SH aa
4250
LS buff,v hd,dns, blky,sl foss,p por,ns
D ZONE 4246(-1106) S 4246(-1106) L
LS wh,buff,sl hd,sl oolc,p pp vuggy por,spty blk dd stn,no free oil
DST#5 4215-4310' 30-80-60-90" HI 2138 IF 16-21 ISI 965 FF 23-28 FSI 770 FH 2038 REC: 45' SOCM (1% O & 99%M)
SH red,v sft,v arg
DST#5 4215-4310'
LS buff,hd,dns, ns
E ZONE 4296(-1156) S 4294(-1154) L
4300
LS wh,frm,chky, fnly xln,p por,spty live brn stn,fr cut
CFS 9-5-12
MUD DATA 4310' WT 9.2 VIS 48 FL 6.8 Ph 11.0 CK 2 CL 1500 LCM 2
SH red,frm,v slty
SS wh,fri,vfg,wsrtd cly fled,p por,ns
SH aa
F ZONE 4342(-1202) S 4336(-1196) L
LS wh,buff,hd,sl foss,dns,p por,ns
4350
LS buff,v hd,dns,ns with thin SH aa
SH red,ft,v arg


0
ROP (min/ft)
10
4400
4450
4500
4550
4600
LS buff,v hd,dns, crpxln,ns
SH red,gn,frm,fiss, arg,wxy
with thin LS aa
LS buff,v hd,dns, crpxln,ns
SH gn,gy,frm,fiss,wxy
GRAINSTONE wh, frm,v
oolc,fr-g intgr por, spty-even
live brn stn,v g cut,g show free
oil
LS gy,v hd,dns,crpxln ns with
thin SH gy,gn,frm,fiss
SH blk,frm,carb,v blky
SH gy,gn,v sft,v arg
LS buff,v hd,dns,sl foss,p
por,ns with thin SH aa
DST#6
4460-4500'
CFS
9-6-12
9-7-12
TG, C1-C5
1
10
100
1000
PAWNEE
4485(-1345) S
4486(-1346) L
CHEROKEE
4546(-1406) S
4544(-1404) L
DST#6 4460-4500
30-60-90-120"
IH 2186 IF 25-181
(bob 12")
ISI 1294 (2"bb)
FF 185-354 (bob
15.5")
FSI 1256 (bob
14.5" bb)
REC: 1000' GIP &
848' TOTAL
FLUID
55' CO(17%g,
85%o & 1%m) &
674' GM&WCO
(46%O,4%G,27%
M & 23%W)
MUD DATA 4500'
WT 9.2 VIS 49
FL 7.2 Ph 10.5
CK 2 CL 1500
LCM 1.5


MUD DATA 4607'
WT 9.3 VIS 48
FL 7.2 Ph 10.0
CK 2 CL 2000
LCM 1
SS wh,fri,vfg,cly fled,chky,p por,ns
LS pale gy,buff,v hd,dns,ns
SH red,gn,gy,frm,fiss
SS wh,pale gn,red, frm,f-c gr,ang,p srtd,fr intgr por,ns
Sh red,gn,gy,mar,frm, fiss,some slty with abnt uncons coarse sand grs, ns
SS wh,uncons,f-coarse gr, rnd-v ang,psrtd,ns
SS trnsl,fri,f-crse gr,rnd-sang,msrtd,g intgr por,ns
SH aa
SS trnsl,fri,f-m gr, msrtd,rnd-sang,g intgr por,ns
SH yell,blk,gn,gy, blky,sl carb
SS aa with thin SH aa
DOL wh,pale gy,frm,fnly xln,chky ip,p intxln por,ns,abnt Cht wh
4650
4700
4750
4800
0
ROP (min/ft)
10
TG, C1-C5
1
10
100
1000
MISSISSIPPIAN
4814(-1674) S
4806(-1666) L


CFS
4850
4900
4950
5000
9-8-12
0
ROP (min/ft)
10
DOL buff,sft,fnly xln, fr intxln por,ns,abnt Cht aa
DOL wh,hd,vfnly xln,p por,glauconitic
DOL brn,hd,fnly xln,p por,ns
DOL brn,v hd,v dns, crpxln,
LS wh,buff,frm,chky,p por,ns with thin SH gn,red,frm, fiss
DOL buff,pale gy,v hd, v fnly xln,dns,p por,ns
DOL buff,v hd,dns, some sub xln, no visible por,abnt glauconite with thin strgs SH red,gn,frm, wxy
SH red,gn,mar,gy,frm, fiss
ARBUCKLE
4965(-1825) S
4968(-1828) L
TG, C1-C5
1
10
100
1000
MUD DATA 5005'
WT 9.3 VIS 50
FL 6.4 Ph 11.0
CK 2 CL 1800
LCM 1.0
REAGAN SAND


5050
5100
5150
5200
5250
9-9-2012
9-10-2012
0
ROP (min/ft)
10
SS trnls,wh,frm,f- m gr,rnd-sang,msrtd,abnt glauconite,fr intgr por,ns,abnt uncons sand
SS trnsl,wh,hd, coarse gr,ang,sileous,tr pink grs,p por,ns,abnt uncons grs & SH aa
SS trnsl,pinkish,frm, m-coarse gr,srnd-sang,fr intgr por,ns sileous cmt, tr pink feldspar grs
GRANITE WASH weathered dull pink fledspar,trnsl qtz & biotite xls,ns
GRANITE fresh,cln, v sharp pink fledspar,trnsl qtz & biotite xls,dns,ns
DRILLED DEEPER AFTER LOGS
RTD 5142'
5046(-1906) S
5048(-1908) L
BIT WAS SHOT ! CHANGE BIT TO DRILL DEEPER, AFTER LOGS
RTD 5085'
LTD 5084'
GRANITE WASH
5107(-1967) S
GRANITE
5116(-1976)
TG, C1-C5
1
10
100
1000

00

# BEREXCO, LLC.
# MEARS A # 1-9
# SENE 9 1N-37W
# CHEYENNE COUNTY, KANSAS

**GEOLOGIST**
**WILLIAM B. BYNOG**

# RESUME

| | |
|---|---|
| OPERATOR: | BEREXCO, LLC. |
| WELL NAME & NUMBER: | MEARS A # 1-9 |
| LOCATION: | SENE 9 1N-37W |
| COUNTY: | CHEYENNE |
| STATE: | KANSAS |
| SPUD DATE: 8-25-2012 | COMPLETION DATE: 9-9-2012 |
| ELEVATIONS: | GL: 3129' KB: 3140' |
| CONTRACTOR: | BEREDCO RIG 10 |
| LOGS: LOG TECH | TYPES: RAG, MICROLOG & SONIC |
| WELLSITE ENGINEER: | NONE |
| MUD COMPANY: | MORGAN MUD |
| MUD TYPE & ENGINEER: | FRESH CHEMICAL |
| GEOLOGIST: | WILLIAM B.BYNOG |
| HOLE SIZE: | 7 7/8 |
| MUD LOGGING BY: | NONE |
| DRILL STEM TEST COMPANY: | TRILOBITE |
| DRILL STEM TEST: | DST # 1 3630-3720, DST# 2 3920-4035, DST# 3 4030-4180, DST# 4 4176-4220, DST# 5 4215-4310, DST# 6 4460-4500 |
| WELL STATUS: | RAN 5 ½ PRODUCTION CASING |

# DISCUSSION

Mears A # 1-9 was drilled a total depth of 5142 feet, testing the Lansing Kansas City, Pawnee and Granite in Cheyenne County, Kansas. Structurally, Mears A # 1-9 came in ten feet high, on the Lansing top to Murfin's Shones # 1-5 well in section 5 1S-37W, two miles northwest of this location.

As a result of running high there were good sample shows in the Oread, Lansing Kansas City A and B, C and E zones. The Pawnee also had good sample shows and fair porosity development. Most of these zones were tested with poor results recovering small amounts of oil, mud and water, except for the Pawnee. The Pawnee zone is a well-developed Grainstone associated with a good drilling break and was tested on drill stem test # 6, recovering 1000 feet of gas in pipe and 848 feet of oil with a small water cut.

Logs agreed with sample evaluation recording tight low porous zones with high resistivity in the Lansing Kansas City and fair porosity development in Pawnee with high resistivity. A decision was made to run 5 ½ production casing on the Pawnee zone and other marginal Lansing Kansas City zones.

ANHYDRITE 3082(+58) S

3088(+52) L

BASE 3113(+27) S

3122(+18) L

MEARS A # 1 - 9 SAMPLE DESCRIPTIONS

3500-3610 SHALE red,firm,very silty

3610-30 LIMESTONE pale gray,firm,sandy, chnky,poor porosity,no shows abundant Chert orange

3630-56 SHALE red,firm,silty

FORAKER

3656-90 Limestone white,pale gray,firm,slightly oolitic,sandy,poor porosity,spotty black dead stain,no free oil with thin SHALE as above

3690-3705 SANDSTONE pale maroon,white,friable,very fine grained,clay fled,poor porosity,rare dead stain, some poor to fine intergranular porosity, even brown live stain,good cut,faint odor,no free oil

3705-86 SHALE red,very soft,very argillaceous, gummy with very thin LIMESTONE pale

gray,firm,chalky,poor porosity,no shows

3786-95 LIMESTONE white,pale gray,firm to hard,dense to chalky,poor porosity,no shows

3795-3800 SHALE as above

3800-20 LIMESTONE white,hard,oolitic,slightly chalky,poor porosity,abundant black dead stain

3825-62 LIMESTONE buff,very hard,dense, smth texture,crpxln with very thin SHALE as above

3862-76 LIMESTONE buff,very hard,dense,slightly fossils,no shows

3875-82 SHALE red,very soft,argillaceous,slightly silty

TOPEKA

3875-90 LIMESTONE white,firm,very chalky, fossils,poor pormns

3890-3900 SHALE as above

3900-24 LIMESTONE white,buff,hard,slightly chalky,poor porosity,no shows,abundant Chert white, orange

3924-70 SHALE red,green,firm,argillaceous,silty with thin LIMESTONE white,firm,chlky

MEARS A # 1-9 SAMPLE DESCRIPTIONS

3970-4006 SHALE maroon,firm,very argillaceous

OREAD

4006-16 LIMESTONE white,pale gray,very hard,dense,slightly fossils,poor pinpoint vuggy porosity,very spotty live brown stain,good cut

4016-22 LIMESTONE buff,firm,fnly crystalline,slightly fossils,poor to fair intxln and vuggy porosity,even to spotty live brown stain,very good cut,fair odor,fair show free oil

4022-48 LIMESTONE buff,very hard,blocky,dense,crpxln,no shows with thin SHALE green,dark gray,firm,fissile

4048-60 LIMESTONE pale gray,buff,very hard,dense,blocky,crpxln,no shows

4060-80 SHALE dark gray,green,gray,firm,fissile some LIMESTONE as above

4080-88 SHALE red,very soft,very argillaceous, gummy

LANSING A

4088-98 LIMESTONE buff,pale yell,very hard, dense,crpxln,rare poor pinpoint vuggy porosity,very spotty live brown stain,fair cut,no free oil

4098-4112 LIMESTONE buff,very hard,dense, crpxln,blocky,rare dead black stain on fracture face

MEARS A # 1-9 SAMPLE DESCRIPTIONS

4112-20 SANDSTONE white,slightly friable,very fine grained,poor visible porosity,spotty black dead stain

4120-46 SHALE red,gray,green,firm, fissile

B ZONE

4146-58 LIMESTONE white,firm,oolitic, chalky,fair intergranular and vuggy porosity, spotty black thick stain,good cut,poor show free oil with thin very hard,dense,crpxln,no shows

4158-64 SHALE green,firm,silty

4164-70 LIMESTONE buff,very hard,dense,blocky,dense,very rare poor pinpoint vuggy porosity,very spotty stain,fair cut,no free oil

4170-76 LIMESTONE buff,very hard,dense, blocky,crpxln,no shows

4176-4200 SHALE green,red,firm,argillaceous,slightly silty

C ZONE

4200-10 GRAINSTONE white, firm,very oolitic,fair intergranular and vuggy porosity,spotty to even live brown stain,very good cut,good show free oil

4210-20 LIMESTONE pale gray,hard,dense,argillaceous,poor porosity,no shows

MEARS A # 1-9 SAMPLE DESCRIPTIONS

4220-46 SHALE as above

D ZONE

4246-60 LIMESTONE buff,very hard,dense, blocky,slightly fossils,poor porosity,no shows

4260-74 LIMESTONE white,buff,slightly hard,slightly oolitic,poor pinpoint vuggy porosity,spotty black dead stain,no free oil

4274-96 SHALE red,very soft,very argillaceous

E ZONE

4296-4300 LIMESTONE buff,hard,dense, no shows

4300-06 LIMESTONE white,firm,chalky, fnly crystalline,poor porosity,spotty live brown stain,fair cut

4310-18 SHALE red,firm,very silty

4318-30 SANDSTONE white,friable,very fine grained,wsrtd clay fled,poor porosity,no shows

4330-42 SHALE as above

F ZONE

4336-52 LIMESTONE white,buff,hard,slightly fossils,dense,poor porosity,no shows

MEARS A # 1-9 SAMPLE DESCRIPTIONS

4350-70 LIMESTONE buff,very hard,dense,no shows with thin SHALE as above

4370-4400 SHALE red,ft,very argillaceous

4400-10 LIMESTONE buff,very hard,dense, crpxln,no shows

4410-56 SHALE red,green,firm,fissile, argillaceous,waxy with thin LIMESTONE as above

4454-60 LIMESTONE buff,very hard,dense, crpxln,no shows

4460-85 SHALE green,gray,firm,fissile,waxy

PAWNEE

4485-94 GRAINSTONE white, firm,very oolitic,fair to good intergranular porosity, spotty to even live brown stain,very good cut,good show free oil

4494-4545 LIMESTONE gray,very hard,dense,crpxln no shows with thin SHALE gray,green,firm,fissile

CHEROKEE

4545-60 SHALE black,firm,carbonaceous,very blocky

4560-70 SHALE gray,green,very soft,very argillaceous

MEARS A # 1-9 SAMPLE DESCRIPTIONS

4570-4608 LIMESTONE buff,very hard,dense,slightly fossils,poor porosity,no shows with thin SHALE as above

4608-20 SANDSTONE white,friable,very fine grained,clay fled,chalky,poor porosity,no shows

4620-32 LIMESTONE pale gray,buff,very hard,dense,no shows

4632-4044 SHALE red,green,gray,firm,fissile

4644-52 SANDSTONE white,pale green,red, firm,fine to coarse grained,angular,poor sorted,fair intergranular porosity,no shows

4652-4744 Shale red,green,gray,maroon,firm, fissile,some silty with abundant unconsolidated coarse sand grains, no shows

SANDSTONE white,unconsolidated,fine to coarse grained, rounded to very angular,psrtd,no shows

4744-60 SANDSTONE translucent,friable,fine to crse grained,rounded to sang,msrtd,good intergranular porosity,no shows

4760-74 SHALE as above

4774-82 SANDSTONE translucent,friable,fine to m grained, msrtd,rounded to sang,good intergranular porosity,no shows

MEARS A # 1-9 SAMPLE DESCRIPTIONS

4782-4796 SHALE yell,black,green,gray, blocky,slightly carbonaceous

4796-10 SANDSTONE as above with thin SHALE as above

MISSISSIPPIAN

4814-30 DOLOMITE white,pale gray,firm,fnly crystalline,chalky in part,poor intxln porosity,no shows,abundant Chert white

4830-45 DOLOMITE buff,soft,fnly crystalline, fair intxln porosity,no shows,abundant Chert as above

4845-55 DOLOMITE white,hard,vfnly crystalline,poor porosity,glauconitic

4854-86 DOLOMITE brown,hard,fnly crystalline,poor porosity,no shows

4886-4920 DOLOMITE brown,very hard,very dense, crpxln,

4890-65 LIMESTONE white,buff,firm,chalky,poor porosity,no shows with thin SHALE green,red,firm, fissile

4965-80 DOLOMITE buff,pale gray,very hard, very fnly crystalline,dense,poor porosity,no shows

4980-5030 DOLOMITE buff,very hard,dense, some sub crystalline, no visible porosity,abundant glauconite with thin stringers SHALE red,green,firm, waxy

MEARS A # 1-9 SAMPLE DESCRIPTIONS

5030-46 SHALE red,green,maroon,gray,firm, fissile

5046-70 SANDSTONE trnls,white,firm,fine to m grained,rounded to sang,msrtd,abundant glauconite,fair intergranular porosity,no shows,abundant unconsolidated sand

5070-76 SANDSTONE translucent,white,hard, coarse grained,angular,sileous,trace pink grains,poor porosity,no shows,abundant unconsolidated grains and SHALE as above

5076-5107 SANDSTONE translucent,pinkish,firm, m to coarse grained,srnd to sang,fair intergranular porosity,no shows sileous cement, trace pink feldspar grains

GRANITE WASH

5107-16 GRANITE WASH weathered dull pink fledspar,translucent quartz and biotite crystals,no shows

GRANITE

5116-42 GRANITE fresh,clean, very sharp pink fledspar,translucent quartz and biotite crystals,dense,no shows

DRILLED DEEPER AFTER LOGS

RTD 5142'

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

February 28, 2013

Rodney Reynolds
BEREXCO LLC
2020 N. BRAMBLEWOOD
WICHITA, KS 67206-1094

Re: ACO-1
API 15-023-21354-00-00
Mears A 1-9
NE/4 Sec.09-01S-37W
Cheyenne County, Kansas

Dear Rodney Reynolds:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 08/27/2012 and the ACO-1 was received on February 22, 2013 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department