

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 Recompletion Date _____ 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: | |
|----------------|-------|---------|------------|--|

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | BEREXCO LLC |
| Well Name | POWELL 10-22 |
| Doc ID | 1424450 |

All Electric Logs Run

| |
|-----------------|
| |
| Neutron Density |
| Dual Induction |
| Micro Log |
| Sonic |



Customer Name Berexco LLC
 Well Name Powell 10-22
 Job Type Surface

District Liberal
 Supervisor Victor Corona-Marta
 Engineer Kevin Aldridge

| Seq No. | Start Date/Time | Category | Event | Equipment | Event ID | Density (lb/gal) | Pump Rate (bpm) | Pump Vol (bbls) | Pipe Pressure (psi) | Comments |
|---------|------------------|--------------|-----------------------|-------------------|----------|------------------|-----------------|-----------------|---------------------|---|
| | 7/6/2018 10:00pm | Mobilization | Arrive on Location | Cement Pump Truck | | | | | | Arrived at loaction |
| | | StandBy | Other (See comment) | | | | | | | location was very muddy/rig crew was pulling drill pipe |
| | 2:00 | Operational | Rig Up | Cement Pump Truck | | | | | | Rig up to rig |
| | 6:30 | Operational | Safety Meeting | | | | | | | Safety Meeting |
| | 6:45 | Operational | Pressure Test | Cement Pump Truck | | | | | 1500 | pressure test lines to 1500psi |
| | 6:48 | Operational | Pump Spacer | cement pump truck | | 8.33 | 2 | 10 | 80 | pump 10bbls of fresh water spacer |
| | 6:50 | Operational | Pump Lead Cement | cement pump truck | | 12.1 | 5 | 235 | 210 | Lead cement 235bbls from 600sacks at 12.1lbs |
| | 7:47 | operational | Pumping Cement | cement pump truck | | 14.9 | 5 | 35.5 | 80 | pump 35.5bbls of cement from 150sacks at 14.9lbs |
| | | Operational | Clean Pumps and Lines | cement pump truck | | | | | | drop plug/wash pump and lines |
| | | Operational | Pump Displacement | cement pump truck | | 8.33 | | | | displacement of 105bbls |
| | 8:12 | Operational | Pump Displacement | cement pump truck | | 8.33 | 5 | 20 | 80 | 20bbls gone |
| | 8:16 | Operational | Pump Displacement | cement pump truck | 64 | 8.33 | 5 | 40 | 210 | 40bbls gone |
| | 8:21 | Operational | Pump Displacement | cement pump truck | | 8.33 | 5 | 60 | 310 | 60bbls gone./slow down rate |
| | 8:26 | Operational | Pump Displacement | cement pump truck | | 8.33 | 5 | 80 | 390 | 80bbls gone |
| | 8:30 | Operational | Pump Displacement | cement pump truck | | 8.33 | 5 | 95 | 460 | 95bbls gone/ slow down rate |
| | 8:39 | Operational | Pump Displacement | cement pump truck | | 8.33 | 3 | 105 | 1080 | Bump plug/check if float holds |
| | | | | | | | | | | Had 80bbls of cement to surface |
| | | | | | | | | | | Had .5 bbls in water returns |
| 50 | | | | | | | | | | rig down |
| 51 | | | | | | | | | | |
| 52 | | | | | | | | | | Crew and I thanked the company man and |
| 53 | | | | | | | | | | rig crew for job opportunity. |
| 54 | | | | | | | | | | |
| 55 | | | | | | | | | | |
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| 69 | | | | | | | | | | |
| 70 | | | | | | | | | | |

EVENT LOG

Service Line Cementing

Client

District



Quotes:

Plans:

Executions:

| Seq. | Well | Job Type | BJ Sup. | BJ Eng. | Start Dt./Time | End Dt./Time | Duration | Category | Event | Equipment | Density (ppg) | Pump Rate(bpm) | Pump Vol(bbls) | Pipe Pressure(psi) | Comments |
|------|--------------|-------------|-----------------------|----------------|---------------------|---------------------|----------|--------------|------------------------|-----------|---------------|----------------|----------------|--------------------|---|
| 1 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/22/2018 17:00:00 | 07/22/2018 17:15:00 | 0.25 | Mobilization | Arrive on Location | | | | | | |
| 2 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/22/2018 17:15:00 | 07/23/2018 00:00:00 | 6.75 | Operations | Other (See comment) | | | | | | RUNNING F.E. |
| 3 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 00:00:00 | 07/23/2018 00:50:00 | 0.83 | Operations | Spacer Back to Surface | | 0.0000 | 0.00 | 0.00 | 0.00 | PIPE ON BOTTOM RIG DOWN CASING CREW, RIG HEAD |
| 4 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 00:50:00 | 07/23/2018 01:00:00 | 0.17 | Operations | Safety Meeting | | | | | | |
| 5 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 01:00:00 | 07/23/2018 01:05:00 | 0.08 | Operations | Pressure Test | | | | | 2500.00 | |
| 6 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 01:05:00 | 07/23/2018 01:15:00 | 0.17 | Operations | Pump Lead Cement | | 12.0000 | 5.00 | 43.00 | 200.00 | FIRST STAGE |

EVENT LOG



Service Line Cementing

Client

District

| | | | | | | | | | | | | | | |
|----|-----------------|----------------|-----------------------------|-------------------|------------------------|------------------------|------|------------|------------------------|---------|------|--------|---------|---|
| 7 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 01:15:00 | 07/23/2018 01:35:00 | 0.33 | Operations | Pump Tail Cement | 14.8000 | 4.00 | 63.60 | 170.00 | |
| 8 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 01:35:00 | 07/23/2018 01:42:00 | 0.12 | Operations | Drop Bottom Plug | 0.0000 | 0.00 | 0.00 | 0.00 | DROP LATCH DOWN PLUG, WASH PUMPING LINES TO PIT |
| 9 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 01:42:00 | 07/23/2018 01:53:00 | 0.18 | Operations | Start Pumping | | | | 90.00 | START DISPLACEMENT |
| 10 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 01:53:00 | 07/23/2018 01:58:00 | 0.08 | Operations | Pump Displacement | | 5.00 | 50.00 | 120.00 | 50 BBL GONE SWAP TO MUD |
| 11 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 01:58:00 | 07/23/2018 02:10:00 | 0.20 | Operations | Pump Displacement | | 3.00 | 70.00 | 300.00 | 70 BBL SLOW DOWN TO GO THRU DV TOOL AND GET BACK TO RATE IN 10 BBL |
| 12 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 02:10:00 | 07/23/2018 02:15:00 | 0.08 | Operations | Pump Displacement | | 2.50 | 130.00 | 1100.00 | 130 BBL GONE BUMP PLUG 1100 TO 1600 PSI |
| 13 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 02:15:00 | 07/23/2018 02:30:00 | 0.25 | Operations | Drop Opening Plug | | | | | DROP OPENING TOOL |
| 14 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 02:30:00 | 07/23/2018 02:40:00 | 0.17 | Operations | Other (See comment) | | | | 740.00 | OPEN TOOL |
| 15 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 02:40:00 | 07/23/2018 09:00:00 | 6.33 | Operations | Circulate Well | | 4.00 | 20.00 | 230.00 | BRAKE CIRCULATION, SWAP TO RIG |

EVENT LOG



Service Line Cementing

Client

District

| | | | | | | | | | | | | | | |
|----|-----------------|----------------|-----------------------------|-------------------|------------------------|------------------------|-----------------|--------------------------|---------|------|--------|--------|----------------------------------|--|
| 16 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 09:00:00 | 07/23/2018 09:15:00 | 0.25 Operations | Other (See comment) | | | | | | BULLDOZER ON LOCATION, WE GOT BULK TRUCKS SPOTTED AND SAFETY MEETING PERFORMED FOR SECOND STAGE |
| 17 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 09:15:00 | 07/23/2018 09:25:00 | 0.17 Operations | Pumping Cement | 12.0000 | 3.00 | 20.00 | 10.00 | CEMENT RAT&MOUSE HOLES | |
| 18 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 09:25:00 | 07/23/2018 09:55:00 | 0.50 Operations | Pump Lead Cement | 12.0000 | 5.00 | 117.50 | 120.00 | | |
| 19 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 09:55:00 | 07/23/2018 10:05:00 | 0.17 Operations | Pump Tail Cement | 14.8000 | 3.00 | 13.50 | 60.00 | | |
| 20 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 10:05:00 | 07/23/2018 10:07:00 | 0.03 Operations | Clean Pumps and Lines | | | | | | |
| 21 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 10:07:00 | 07/23/2018 10:10:00 | 0.05 Operations | Drop Closing Plug | | | | | | |
| 22 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 10:10:00 | 07/23/2018 10:10:00 | 0.00 Operations | Pump Displacement | | | | | START PUMPING DISPLACEMENT | |
| 23 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 10:10:00 | 07/23/2018 10:27:00 | 0.28 Operations | Pump Displacement | | | | | START PUMPING DISPLACEMENT | |
| 24 | POWELL 10-22 | Long String | Aldo Espinoza | Kevin Aldridge | 07/23/2018 10:27:00 | 07/23/2018 10:30:00 | 0.05 Operations | Other (See comment) | | 3.00 | 70.00 | 500.00 | SLOW DOWN TO LAND PLUG | |

EVENT LOG



Service Line Cementing

Client

District

| Galindo | | | | | | | | | | | | | | |
|---------|-----------------|----------------|-----------------------------|-------------------|------------------------|------------------------|------|--------------|-------------------|--|------|-------|---------|--|
| 25 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 10:30:00 | 07/23/2018 10:32:00 | 0.03 | Operations | Land Plug | | 2.50 | 76.00 | 2200.00 | BUMP PLUG 1500 PSI OVER 600 TO 2200 PSI |
| 26 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 10:32:00 | 07/23/2018 11:00:00 | 0.47 | Operations | Check Floats | | | | 0.00 | |
| 27 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 11:00:00 | 07/23/2018 12:30:00 | 1.50 | Operations | Rig Down | | | | | |
| 28 | POWELL 10-22 | Long String | Aldo Espinoza Galindo | Kevin Aldridge | 07/23/2018 12:30:00 | | | Mobilization | Leave Location | | | | | |



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N. Bramblewood
 Wichita, KS 67206
 ATTN: Bryan Bynog

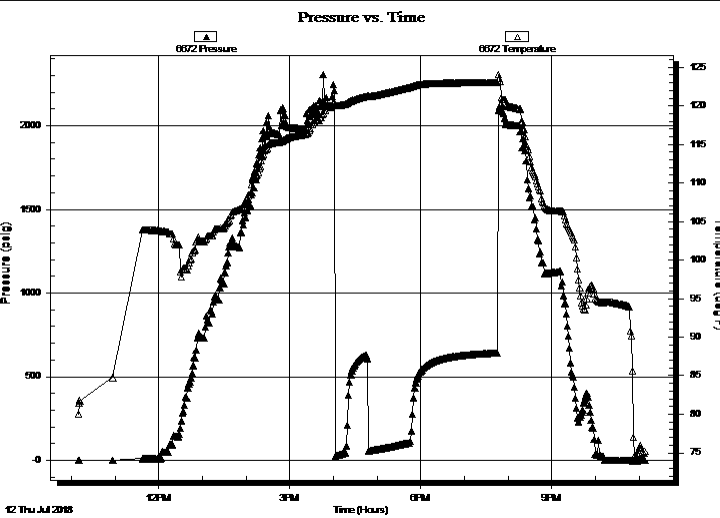
22/29S/33W
Powell 10-22
 Job Ticket: 64033 **DST#: 1**
 Test Start: 2018.07.12 @ 10:10:00

GENERAL INFORMATION:

Formation: **Lansing H**
 Deviated: No Whipstock: 2947.00 ft (KB)
 Time Tool Opened: 16:02:00
 Time Test Ended: 23:08:40
 Interval: **4460.00 ft (KB) To 4482.00 ft (KB) (TVD)**
 Total Depth: 4482.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 75
 Reference Elevations: 2947.00 ft (KB)
 2935.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 6672 Outside
 Press@RunDepth: psig @ 4462.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.07.12 End Date: 2018.07.12 Last Calib.: 1899.12.30
 Start Time: 10:10:02 End Time: 23:08:34 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Fair building blow, 4.3 inches in 15 min.
 IS: No blow back
 FF: Fair building blow, 6.6 inches in 60 min.
 FS: No blow back



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|------------|
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
| | | | |
| | | | |
| | | | |
| | | | |

| Recovery | | |
|-------------|------------------------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 217.00 | oil spotted muddy w ater 20%M,80%W | 1.34 |
| | | |
| | | |
| | | |
| | | |

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

22/29S/33W

2020 N. Bramblewood
Wichita, KS 67206

Powell 10-22

Job Ticket: 64033

DST#: 1

ATTN: Bryan Bynog

Test Start: 2018.07.12 @ 10:10:00

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:

98000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------------------|---------------|
| 217.00 | oil spotted muddy water 20%M,80%W | 1.340 |

Total Length: 217.00 ft Total Volume: 1.340 bbl

Num Fluid Samples: 0

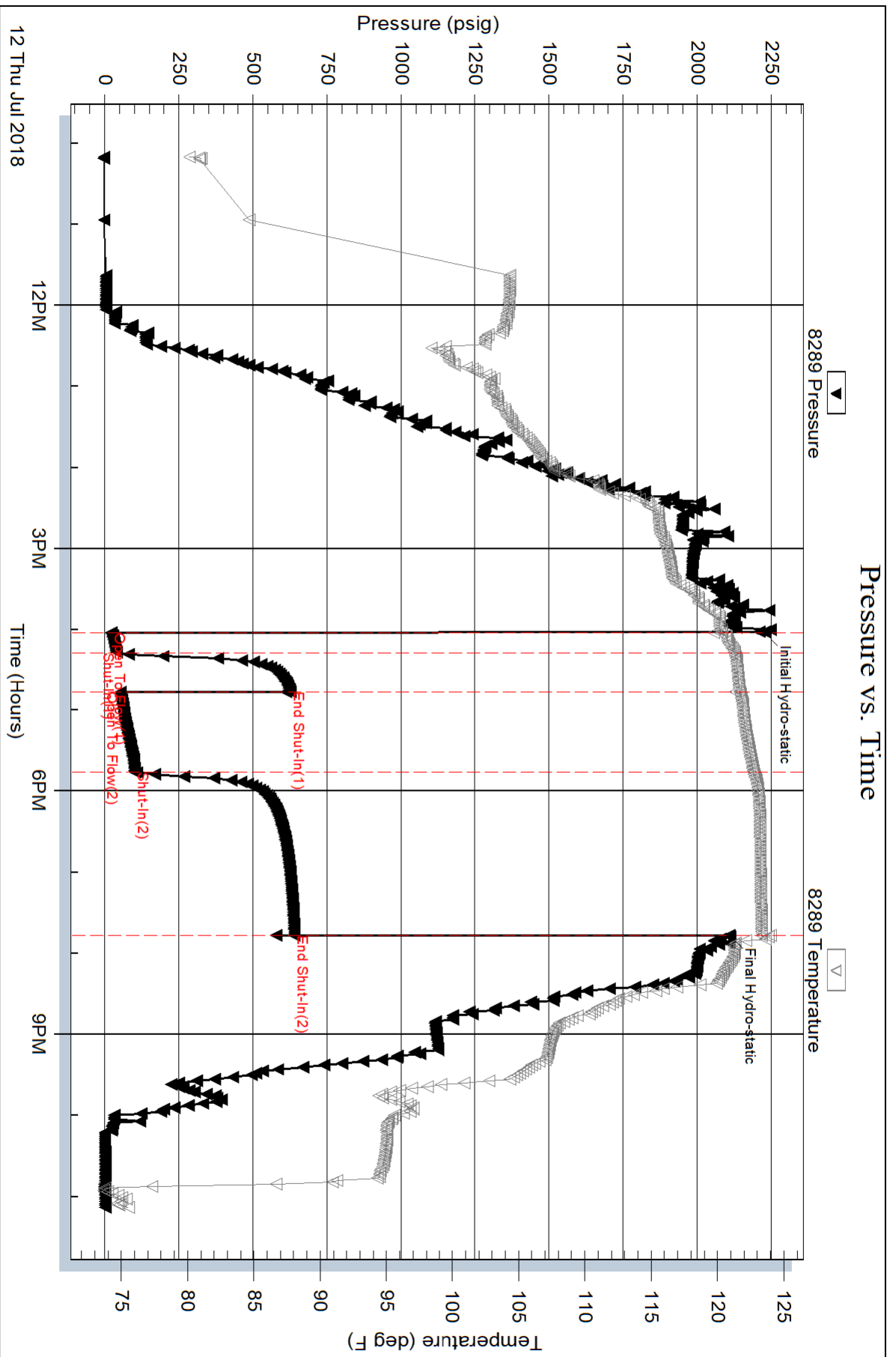
Num Gas Bombs: 0

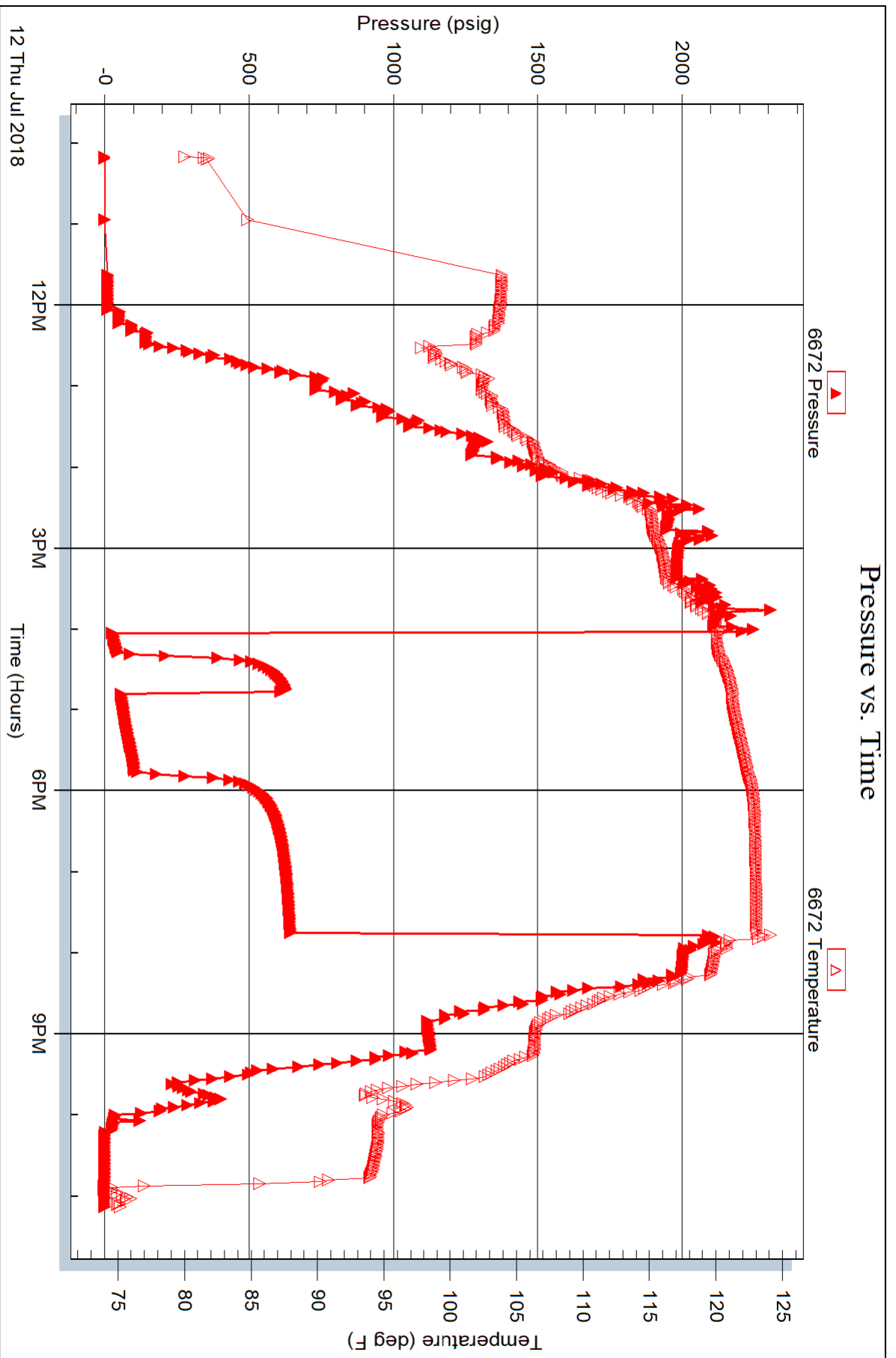
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.078@82.2F=98,000ppm







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N. Bramblewood
Wichita, KS 67206
ATTN: Bryan Bynog

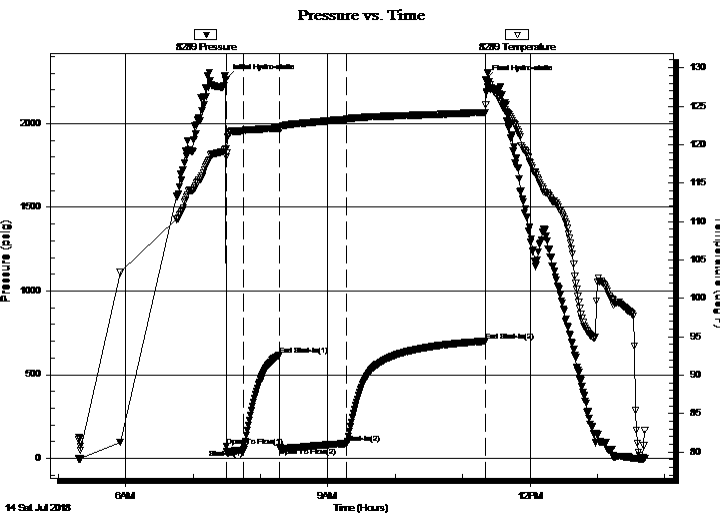
22/29S/33W
Powell 10-22
Job Ticket: 64034 **DST#: 2**
Test Start: 2018.07.14 @ 05:18:00

GENERAL INFORMATION:

Formation: **K.C. B**
Deviated: No Whipstock: 2947.00 ft (KB)
Time Tool Opened: 07:29:30
Time Test Ended: 13:42:15
Interval: **4635.00 ft (KB) To 4676.00 ft (KB) (TVD)**
Total Depth: 4676.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Chris Hagman
Unit No: 75
Reference Elevations: 2947.00 ft (KB)
2935.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8289 **Inside**
Press@RunDepth: 89.78 psig @ 4639.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.07.14 End Date: 2018.07.14 Last Calib.: 1899.12.30
Start Time: 05:18:02 End Time: 13:42:15 Time On Btm: 2018.07.14 @ 07:29:20
Time Off Btm: 2018.07.14 @ 11:20:35

TEST COMMENT: IF: BOB 2 min., strong building blow, 74.6 inches in 15 min.
IS: No blow back
FF: BOB ASAO, strong building blow, 242.5 inches in 60 min.
FS: No blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2265.31 | 119.47 | Initial Hydro-static |
| 1 | 71.99 | 118.42 | Open To Flow (1) |
| 16 | 52.35 | 121.81 | Shut-In(1) |
| 48 | 617.66 | 122.16 | End Shut-In(1) |
| 48 | 68.48 | 121.98 | Open To Flow (2) |
| 108 | 89.78 | 123.29 | Shut-In(2) |
| 231 | 700.32 | 124.21 | End Shut-In(2) |
| 232 | 2260.17 | 125.18 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------------|--------------|
| 187.00 | oily, gassy, mud 5%O,20%G,75%M | 0.92 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

22/29S/33W

2020 N. Bramblewood
Wichita, KS 67206

Powell 10-22

Job Ticket: 64034

DST#: 2

ATTN: Bryan Bynog

Test Start: 2018.07.14 @ 05:18:00

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: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------------------|---------------|
| 187.00 | oily, gassy, mud 5%O,20%G,75%M | 0.920 |

Total Length: 187.00 ft Total Volume: 0.920 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

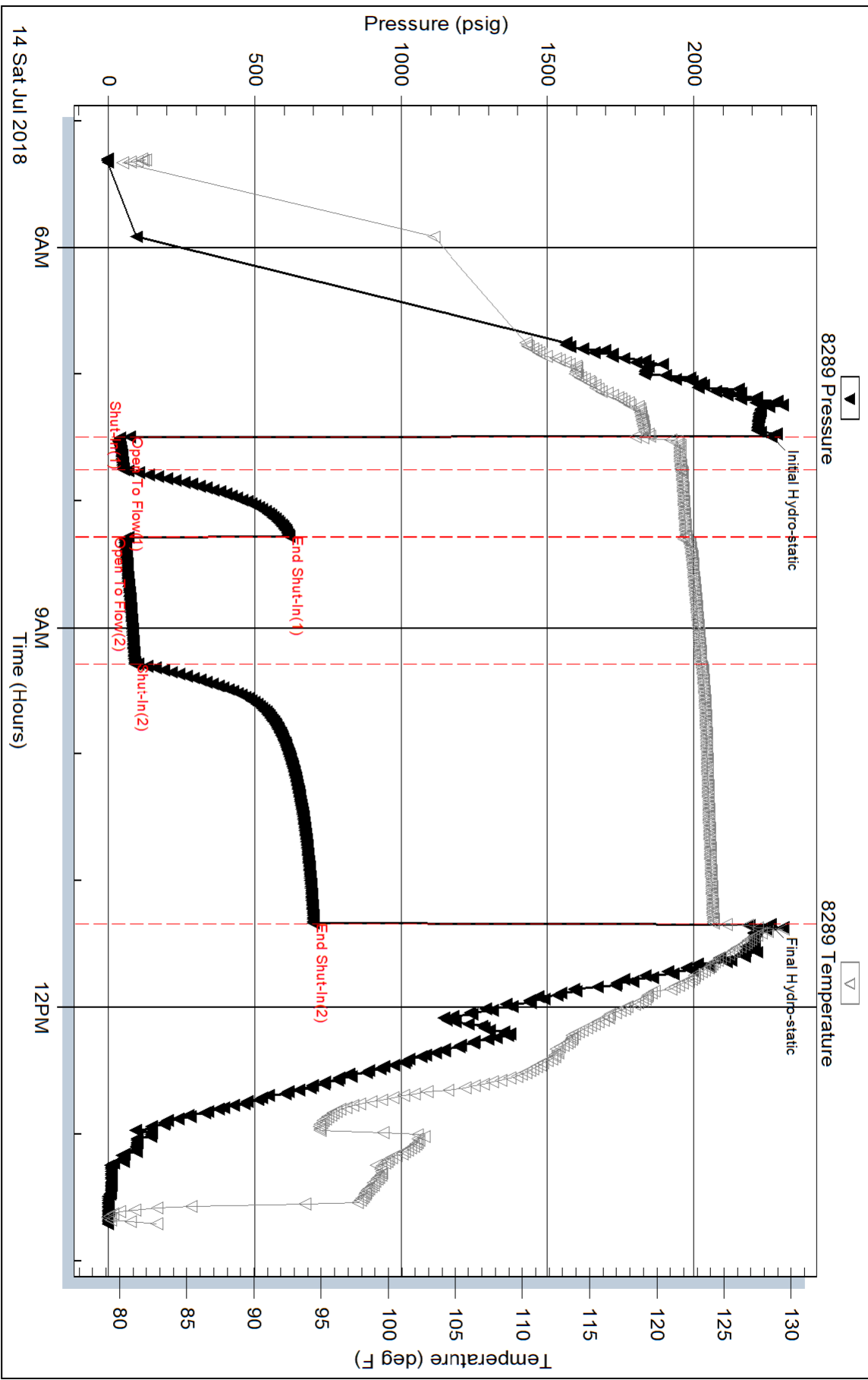
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3450 feet gas in pipe

Pressure vs. Time

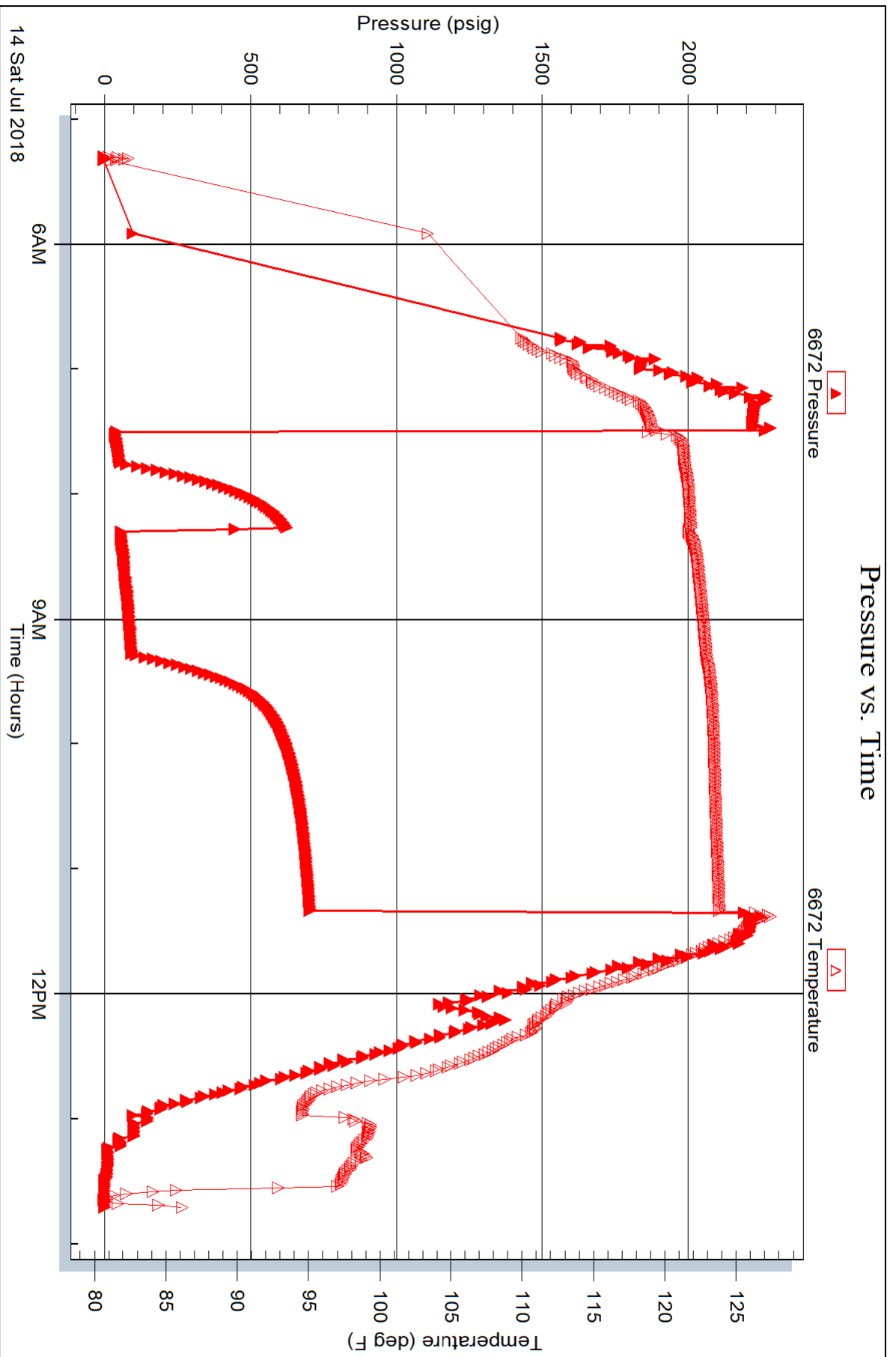


Serial #: 6672

Outside Berexco LLC

Powell 10-22

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N. Bramblewood
 Wichita, KS 67206
 ATTN: Bryan Bynog

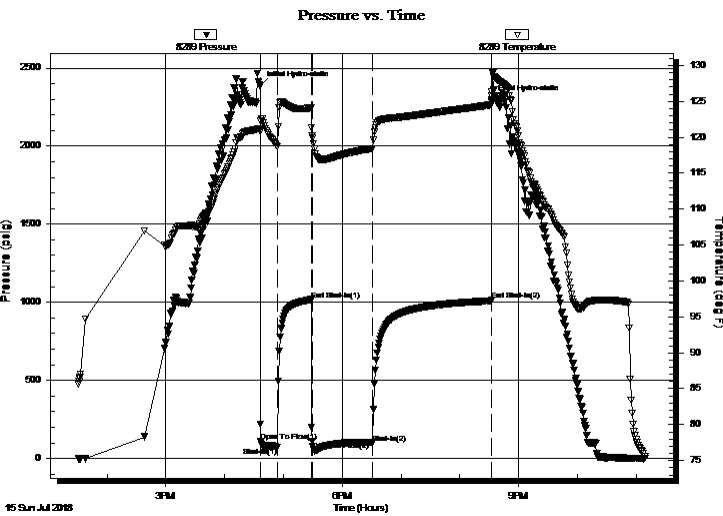
22/29S/33W
Powell 10-22
 Job Ticket: 64035 **DST#: 3**
 Test Start: 2018.07.15 @ 13:31:00

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: 2947.00 ft (KB)
 Time Tool Opened: 16:37:05
 Time Test Ended: 23:08:45
 Interval: **4790.00 ft (KB) To 4810.00 ft (KB) (TVD)**
 Total Depth: 4810.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 75
 Reference Elevations: 2947.00 ft (KB)
 2935.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8289 **Inside**
 Press@RunDepth: 97.80 psig @ 4792.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.07.15 End Date: 2018.07.15 Last Calib.: 1899.12.30
 Start Time: 13:31:02 End Time: 23:08:45 Time On Btm: 2018.07.15 @ 16:36:20
 Time Off Btm: 2018.07.15 @ 20:32:35

TEST COMMENT: IF: BOB 30 sec., GTS 10 min., strong building blow
 IS: No blow back
 FF: BOB GTS ASAO, strong steady blow
 FS: No blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2389.92 | 121.19 | Initial Hydro-static |
| 1 | 107.67 | 122.26 | Open To Flow (1) |
| 18 | 71.86 | 118.66 | Shut-In(1) |
| 52 | 1016.97 | 124.10 | End Shut-In(1) |
| 53 | 109.30 | 120.25 | Open To Flow (2) |
| 115 | 97.80 | 118.42 | Shut-In(2) |
| 237 | 1012.21 | 124.52 | End Shut-In(2) |
| 237 | 2299.36 | 125.85 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------------|--------------|
| 187.00 | oily, gassy, mud 5%O,20%G,75%M | 0.92 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.25 | 36.00 | 79.95 |
| Last Gas Rate | 0.25 | 47.00 | 97.40 |
| Max. Gas Rate | 0.25 | 48.00 | 98.99 |



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

22/29S/33W

2020 N. Bramblewood
Wichita, KS 67206

Powell 10-22

Job Ticket: 64035

DST#: 3

ATTN: Bryan Bynog

Test Start: 2018.07.15 @ 13:31:00

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:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: 3600.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------------------|---------------|
| 187.00 | oily, gassy, mud 5%O,20%G,75%M | 0.920 |

Total Length: 187.00 ft

Total Volume: 0.920 bbl

Num Fluid Samples: 0

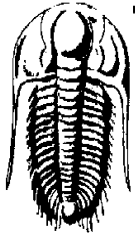
Num Gas Bombs: 1

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Berexco LLC

22/29S/33W

2020 N. Bramblewood
Wichita, KS 67206

Powell 10-22

Job Ticket: 64035

DST#: 3

ATTN: Bryan Bynog

Test Start: 2018.07.15 @ 13:31:00

Gas Rates Information

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

Gas Rates Table

| Flow Period | Elapsed Time | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
| 2 | 10 | 0.25 | 36.00 | 79.95 |
| 2 | 10 | 0.25 | 36.00 | 79.95 |
| 2 | 20 | 0.25 | 45.00 | 94.23 |
| 2 | 30 | 0.25 | 48.00 | 98.99 |
| 2 | 40 | 0.25 | 48.00 | 98.99 |
| 2 | 50 | 0.25 | 47.00 | 97.40 |

Serial #: 8289

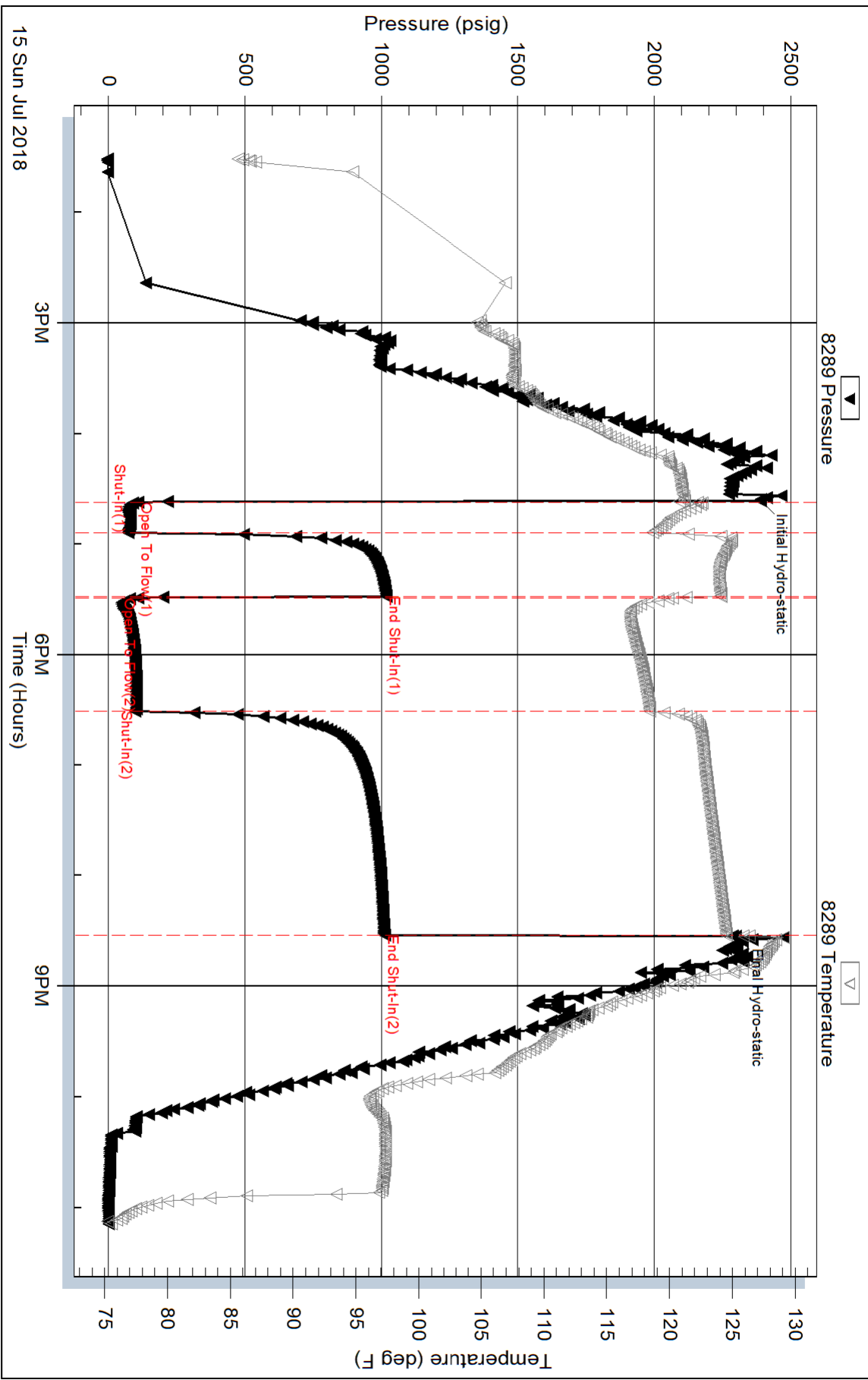
Inside

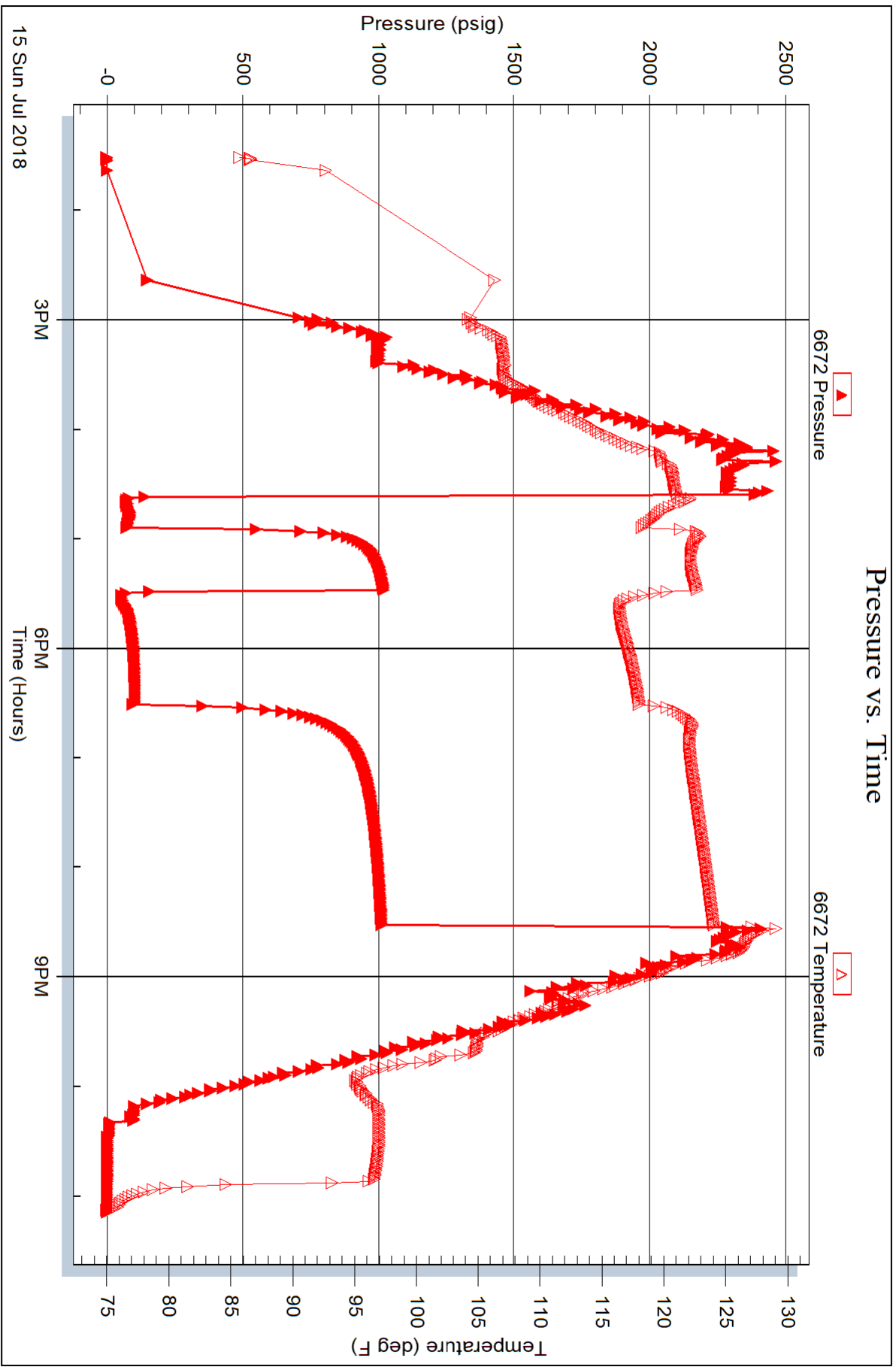
Berexco LLC

Powell 10-22

DST Test Number: 3

Pressure vs. Time







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N. Bramblewood
 Wichita, KS 67206
 ATTN: Bryan Bynog

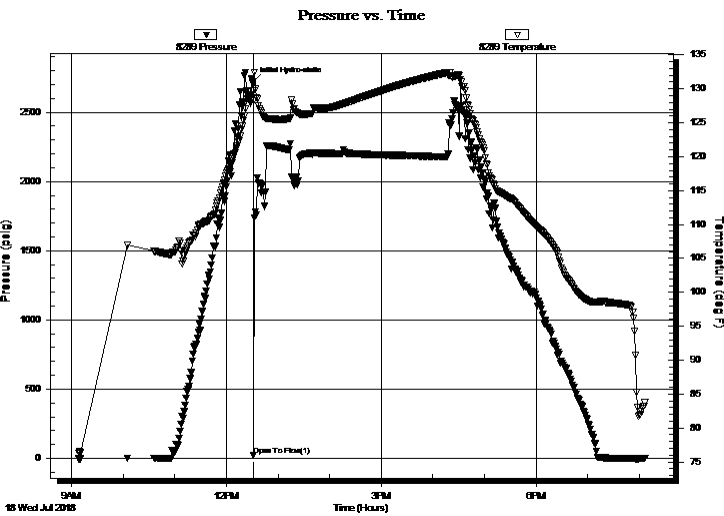
22/29S/33W
Powell 10-22
 Job Ticket: 64036 **DST#: 4**
 Test Start: 2018.07.18 @ 09:08:00

GENERAL INFORMATION:

Formation: **Morrow**
 Deviated: No Whipstock: 2947.00 ft (KB)
 Time Tool Opened: 12:31:10
 Time Test Ended: 20:06:30
 Interval: **5306.00 ft (KB) To 5316.00 ft (KB) (TVD)**
 Total Depth: 5316.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 75
 Reference Elevations: 2947.00 ft (KB)
 2935.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8289 **Inside**
 Press@RunDepth: psig @ 5308.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.07.18 End Date: 2018.07.18 Last Calib.: 1899.12.30
 Start Time: 09:08:02 End Time: 20:06:30 Time On Btm: 2018.07.18 @ 12:31:05
 Time Off Btm:

TEST COMMENT: IF: BOB 2 min., strong building blow
 IS: No blow back
 FF: BOB 1.5 min., strong building blow
 FS: No blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2723.72 | 129.74 | Initial Hydro-static |
| 1 | 20.92 | 128.20 | Open To Flow (1) |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 3385.00 | 100%M | 45.86 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N. Bramblewood
 Wichita, KS 67206
 ATTN: Bryan Bynog

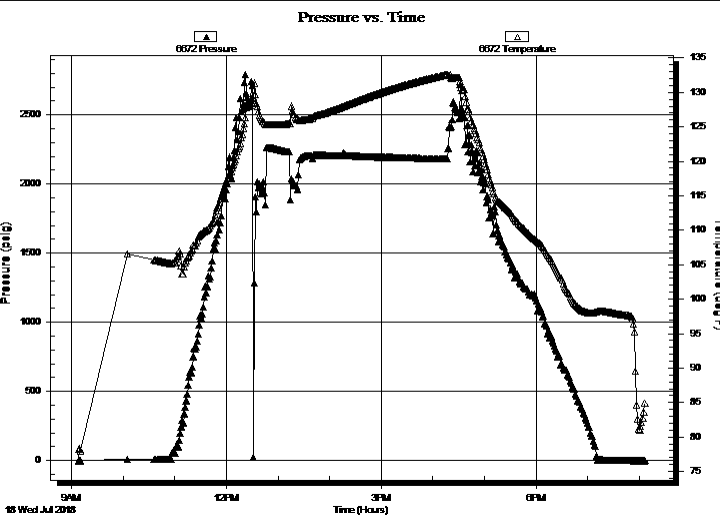
22/29S/33W
Powell 10-22
 Job Ticket: 64036 **DST#: 4**
 Test Start: 2018.07.18 @ 09:08:00

GENERAL INFORMATION:

Formation: **Morrow**
 Deviated: No Whipstock: 2947.00 ft (KB)
 Time Tool Opened: 12:31:10
 Time Test Ended: 20:06:30
 Interval: **5306.00 ft (KB) To 5316.00 ft (KB) (TVD)**
 Total Depth: 5316.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 75
 Reference Elevations: 2947.00 ft (KB)
 2935.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 6672 Outside
 Press@RunDepth: psig @ 5308.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.07.18 End Date: 2018.07.18 Last Calib.: 1899.12.30
 Start Time: 09:08:02 End Time: 20:06:25 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB 2 min., strong building blow
 IS: No blow back
 FF: BOB 1.5 min., strong building blow
 FS: No blow back



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|------------|
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
| | | | |
| | | | |
| | | | |
| | | | |

| Recovery | | |
|-------------|-------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 3385.00 | 100%M | 45.86 |
| | | |
| | | |
| | | |
| | | |

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

22/29S/33W

2020 N. Bramblewood
Wichita, KS 67206

Powell 10-22

Job Ticket: 64036

DST#: 4

ATTN: Bryan Bynog

Test Start: 2018.07.18 @ 09:08:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3250.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 3385.00 | 100%M | 45.861 |

Total Length: 3385.00 ft Total Volume: 45.861 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N. Bramblewood
Wichita, KS 67206
ATTN: Bryan Bynog

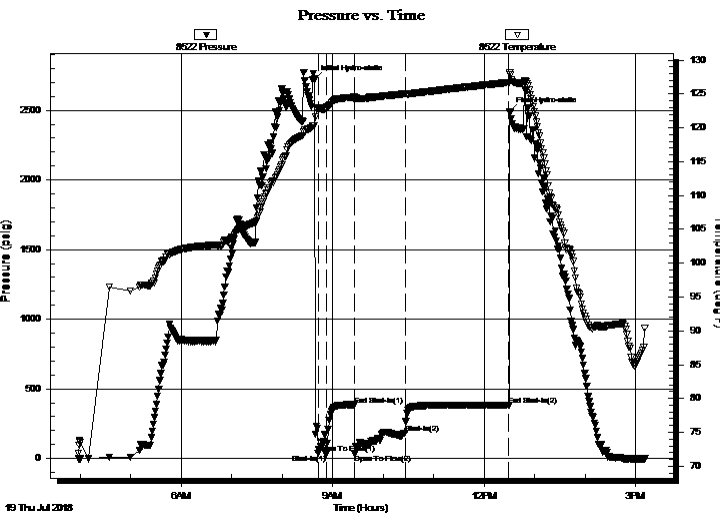
22/29S/33W
Powell 10-22
Job Ticket: 64402 **DST#: 5**
Test Start: 2018.07.19 @ 03:58:00

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: 2947.00 ft (KB)
Time Tool Opened: 08:42:45
Time Test Ended: 15:11:45
Interval: **5200.00 ft (KB) To 5326.00 ft (KB) (TVD)**
Total Depth: 5326.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78
Reference Elevations: 2947.00 ft (KB)
2935.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8522 Inside
Press@RunDepth: 178.48 psig @ 5201.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.07.19 End Date: 2018.07.19 Last Calib.: 2018.07.19
Start Time: 03:58:05 End Time: 15:11:45 Time On Btm: 2018.07.19 @ 08:38:30
Time Off Btm: 2018.07.19 @ 12:30:30

TEST COMMENT: IF: BOB @ 7 minutes Built to 56"
IS: No return.
FF: BOB @ 1 min. Built to 352".
FS: No return. Gas to surface during bleed off.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2716.39 | 120.35 | Initial Hydro-static |
| 5 | 36.16 | 122.83 | Open To Flow (1) |
| 14 | 30.04 | 122.97 | Shut-In(1) |
| 47 | 385.65 | 124.51 | End Shut-In(1) |
| 48 | 33.25 | 124.15 | Open To Flow (2) |
| 108 | 178.48 | 125.01 | Shut-In(2) |
| 231 | 384.05 | 126.69 | End Shut-In(2) |
| 232 | 2490.69 | 128.17 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 70.00 | m 100m | 0.34 |
| 0.00 | GTS | 0.00 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

22/29S/33W

2020 N. Bramblewood
Wichita, KS 67206

Powell 10-22

Job Ticket: 64402

DST#: 5

ATTN: Bryan Bynog

Test Start: 2018.07.19 @ 03:58:00

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:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 70.00 | m 100m | 0.344 |
| 0.00 | GTS | 0.000 |

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

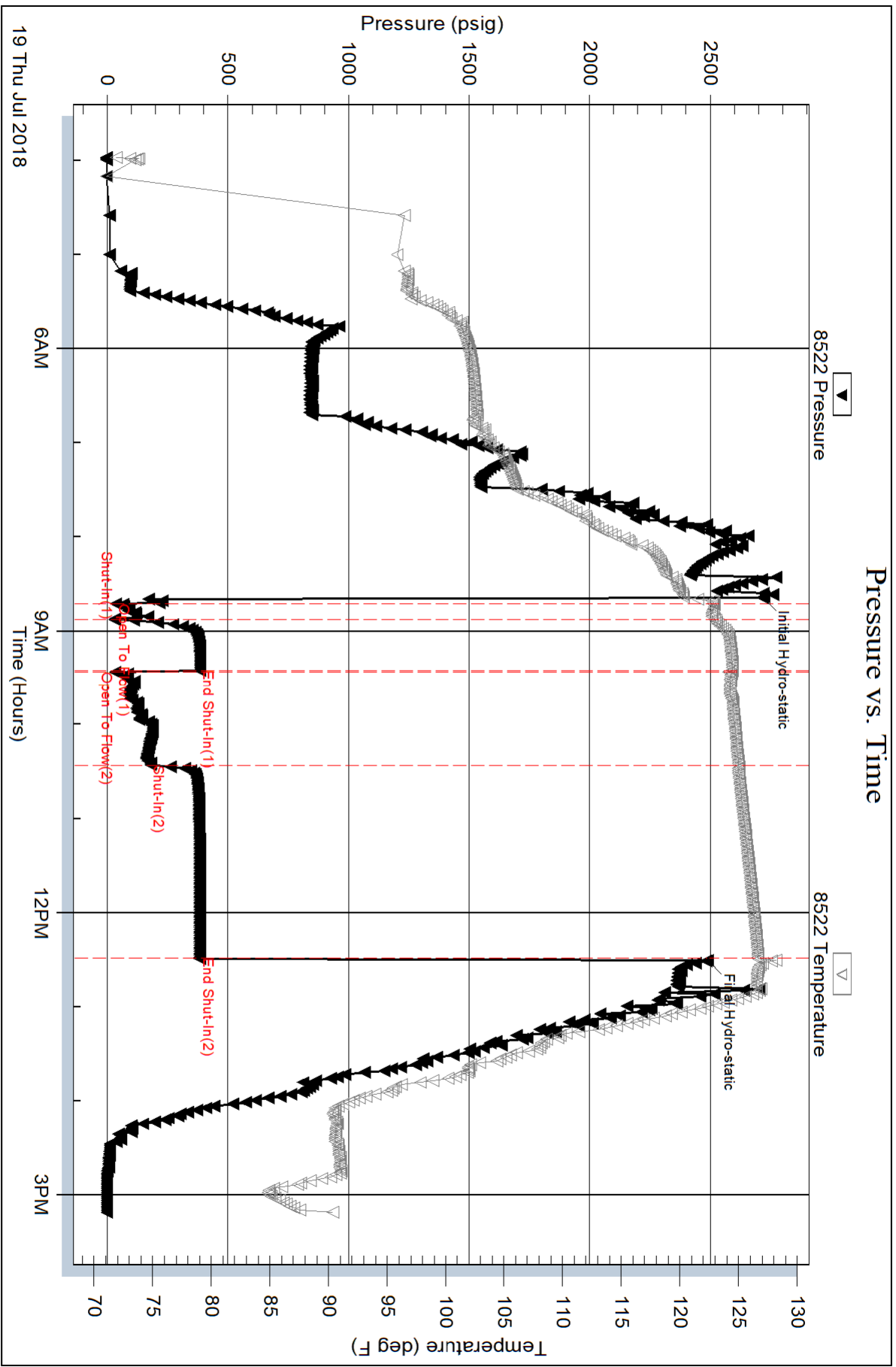
Num Gas Bombs: 0

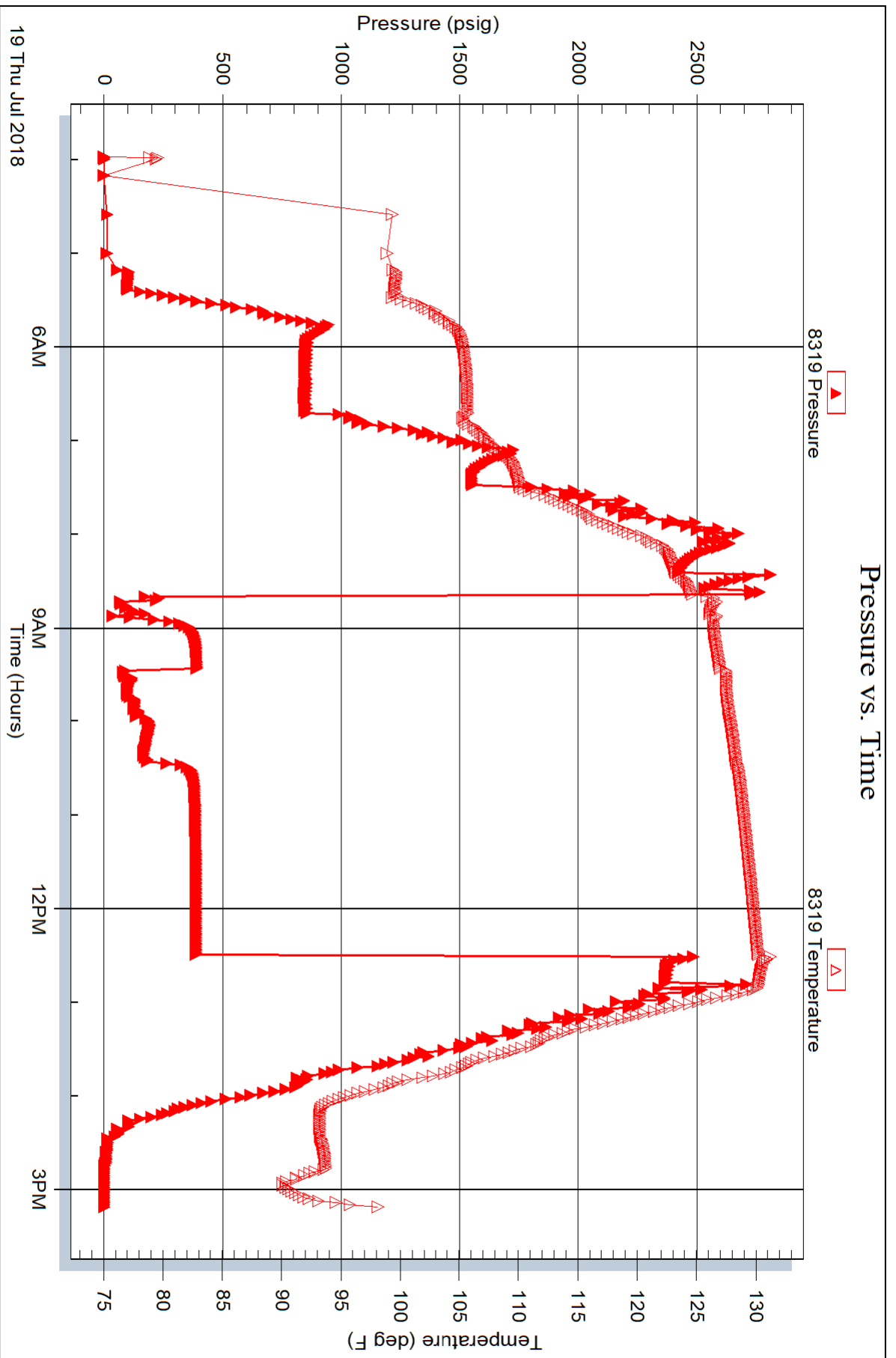
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: POWELL #10-22
Location: S2N2SWSE SECTION 22 T29S-R33W HASKELL COUNTY, KANSAS
License Number: 15-081-22177
Spud Date: 7-24-2018
Surface Coordinates: 980' FSL & 1980' FEL
Region: Midcontinent
Drilling Completed: 7-20-2018

Bottom Hole Coordinates:

Ground Elevation (ft): 2935
Logged Interval (ft): 3900
Formation: LKC,Pawnee, Fort Scott, Cherokee, Atoka, Morrow, Chester & ST. Genevieve
Type of Drilling Fluid: WBM
K.B. Elevation (ft): 2947
To: 5540
Total Depth (ft): 5540

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

OPERATOR

Company: Berexco, LLC.
Address: 2020 N. Bramblewood
Wichita, Kansas 67206

GEOLOGIST

Name: William B. Bynog
Company:
Address: P.O.Box 687
Pinecliffe, Co. 80471

Survey's

| DEPTH | ANGLE |
|-------|-------|
| 1791' | 1.24 |
| 4435' | .75 |

DSTs

DST#1 4460-4482, DST#2 4635-4676, DST#3 4790-4810, DST#4 5306-5316, DST#5 5200-5326

Comments

BASED ON PIPE STRAP MADE A 34' CORRECTION AT 4456' TO 4422', SAMPLE TOPS WILL BE CORRECTED UPHOLE TO FIT STRAP

PRODUCTIVE WELL, SET 5 1/2 CASING

ROCK TYPES

- Anhy
- Bent
- Brec
- Cht
- Clyst

- Coal
- Congl
- Dol
- Gyp
- Igne

- Lmst
- Meta
- Mrlst
- Salt
- Shale

- Shcol
- Shgy
- Sltst
- Ss
- Till

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

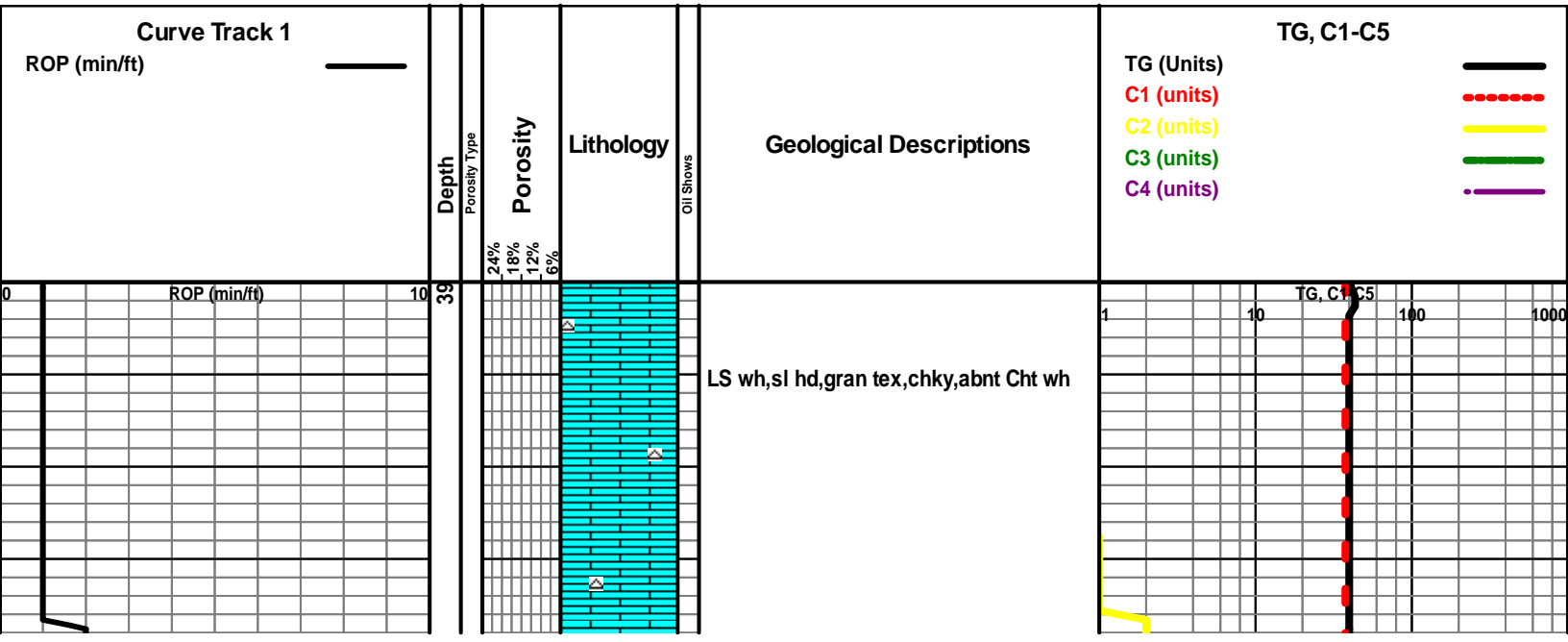
- Even
- Spotted
- Ques
- Dead

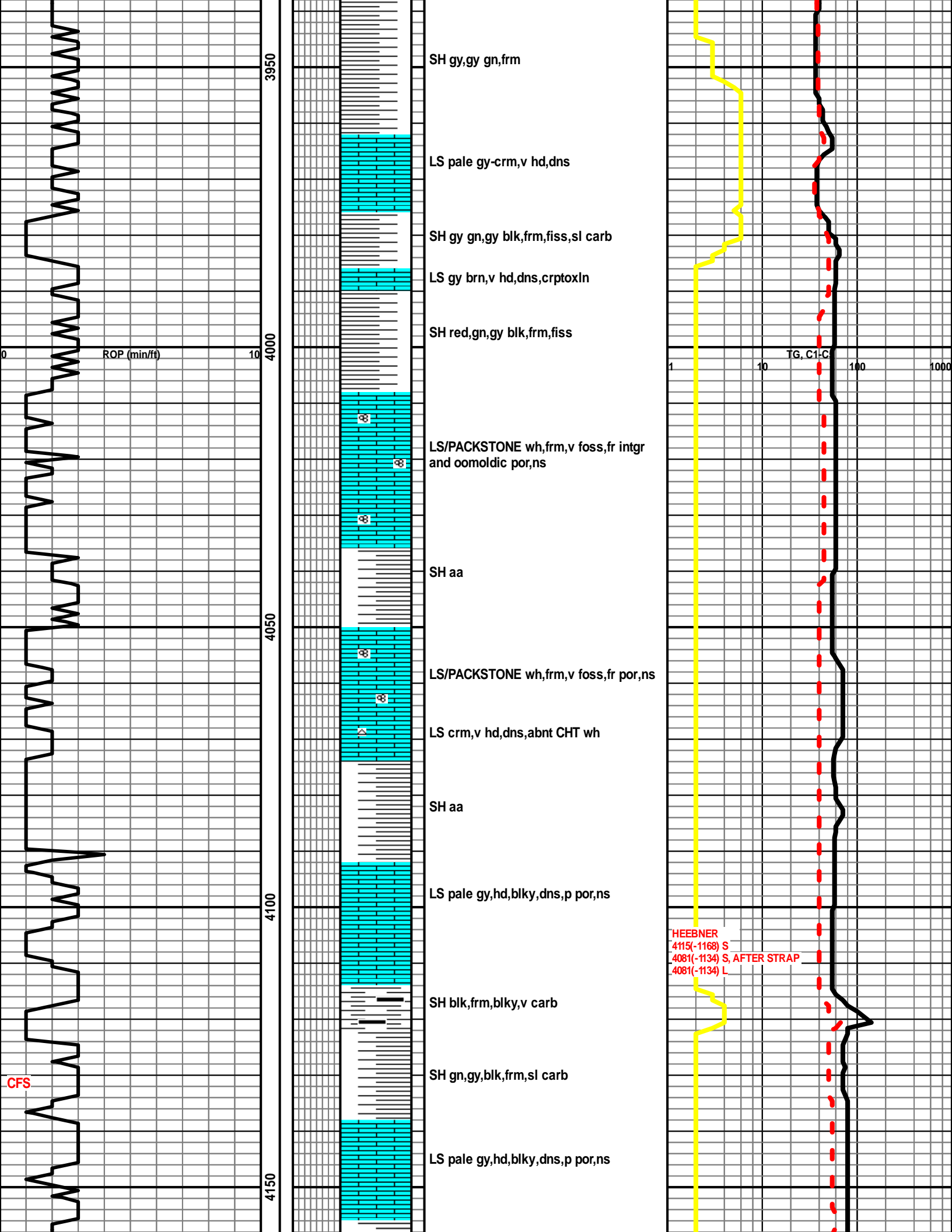
INTERVAL

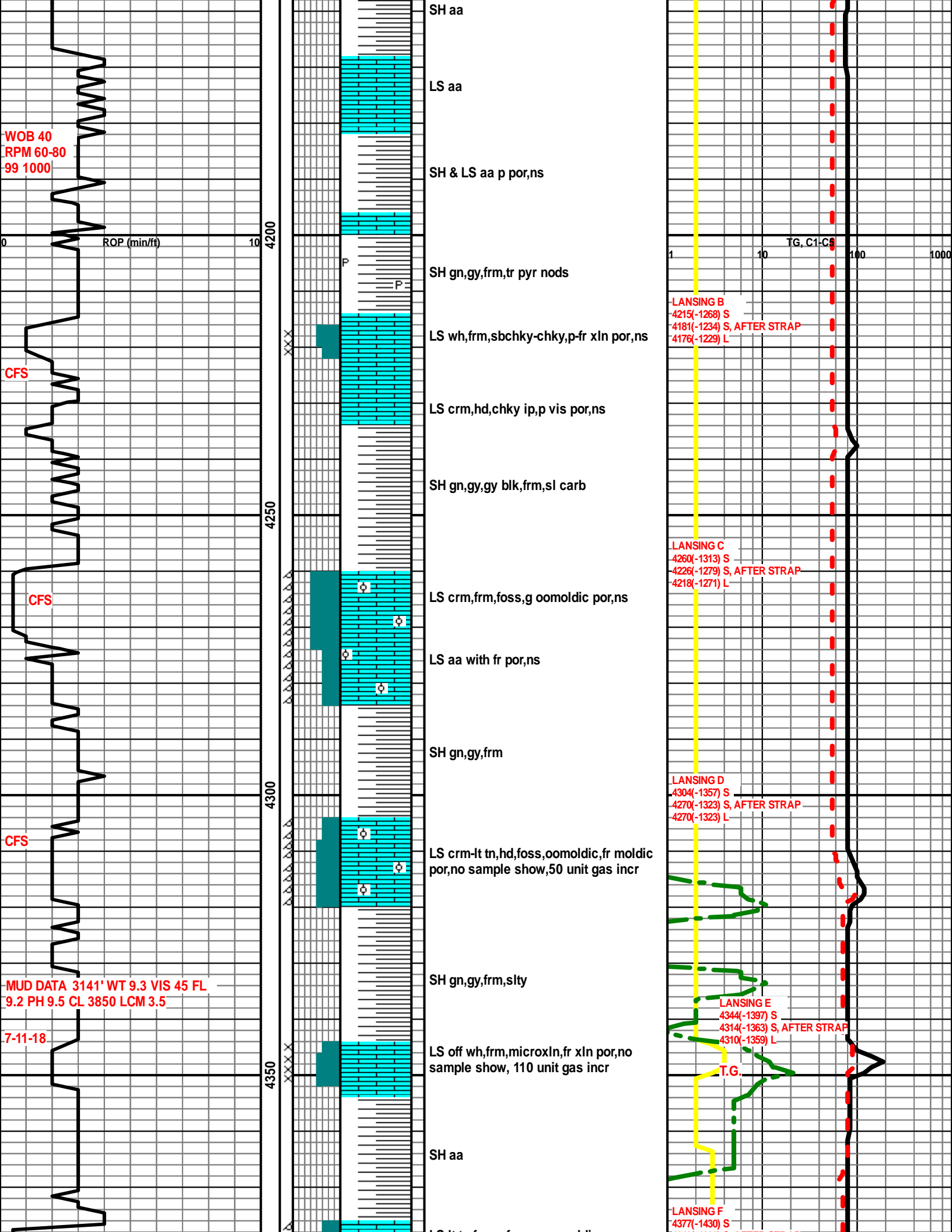
- Dst
- Dst

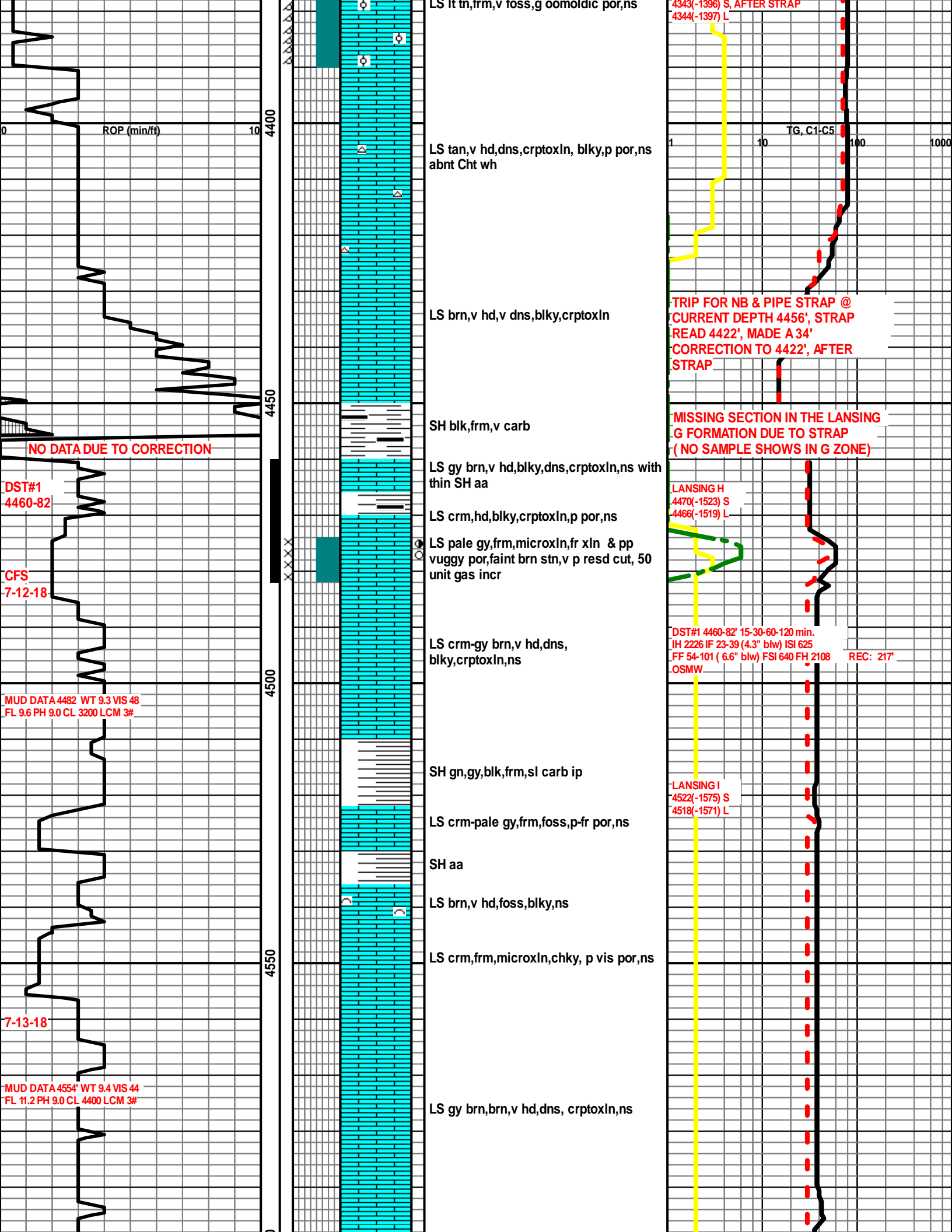
EVENT

- Rft
- Sidewall









LS lt tn,rm,v foss,g oomoldic por,ns

4343(-1396) S, AFTER STRAP
4344(-1397) L

ROP (min/ft)

LS tan,v hd,dns,crptoxln, blk,y,p por,ns abnt Cht wh

TG, C1-C5

LS brn,v hd,v dns,blk,y,crptoxln

TRIP FOR NB & PIPE STRAP @
CURRENT DEPTH 4456', STRAP
READ 4422', MADE A 34'
CORRECTION TO 4422', AFTER
STRAP

SH blk,frm,v carb

MISSING SECTION IN THE LANSING
G FORMATION DUE TO STRAP
(NO SAMPLE SHOWS IN G ZONE)

NO DATA DUE TO CORRECTION

LS gy brn,v hd,blk,y,dns,crptoxln,ns with thin SH aa

LANSING H
4470(-1523) S
4466(-1519) L

DST#1
4460-82

LS crm,hd,blk,y,crptoxln,p por,ns

LS pale gy,frm,microxln,fr xln & pp vuggy por,faint brn stn,v p resd cut, 50 unit gas incr

CFS
7-12-18

LS crm-gy brn,v hd,dns, blk,y,crptoxln,ns

DST#1 4460-82' 15-30-60-120 min.
IH 2226 IF 23-39 (4.3" blw) ISI 625
FF 54-101 (6.6" blw) FSI 640 FH 2108 REC: 217
OSMW

MUD DATA 4482 WT 9.3 VIS 48
FL 9.6 PH 9.0 CL 3200 LCM 3#

SH gn,gy,blk,frm,sl carb ip

LANSING I
4522(-1575) S
4518(-1571) L

LS crm-pale gy,frm,foss,p-fr por,ns

SH aa

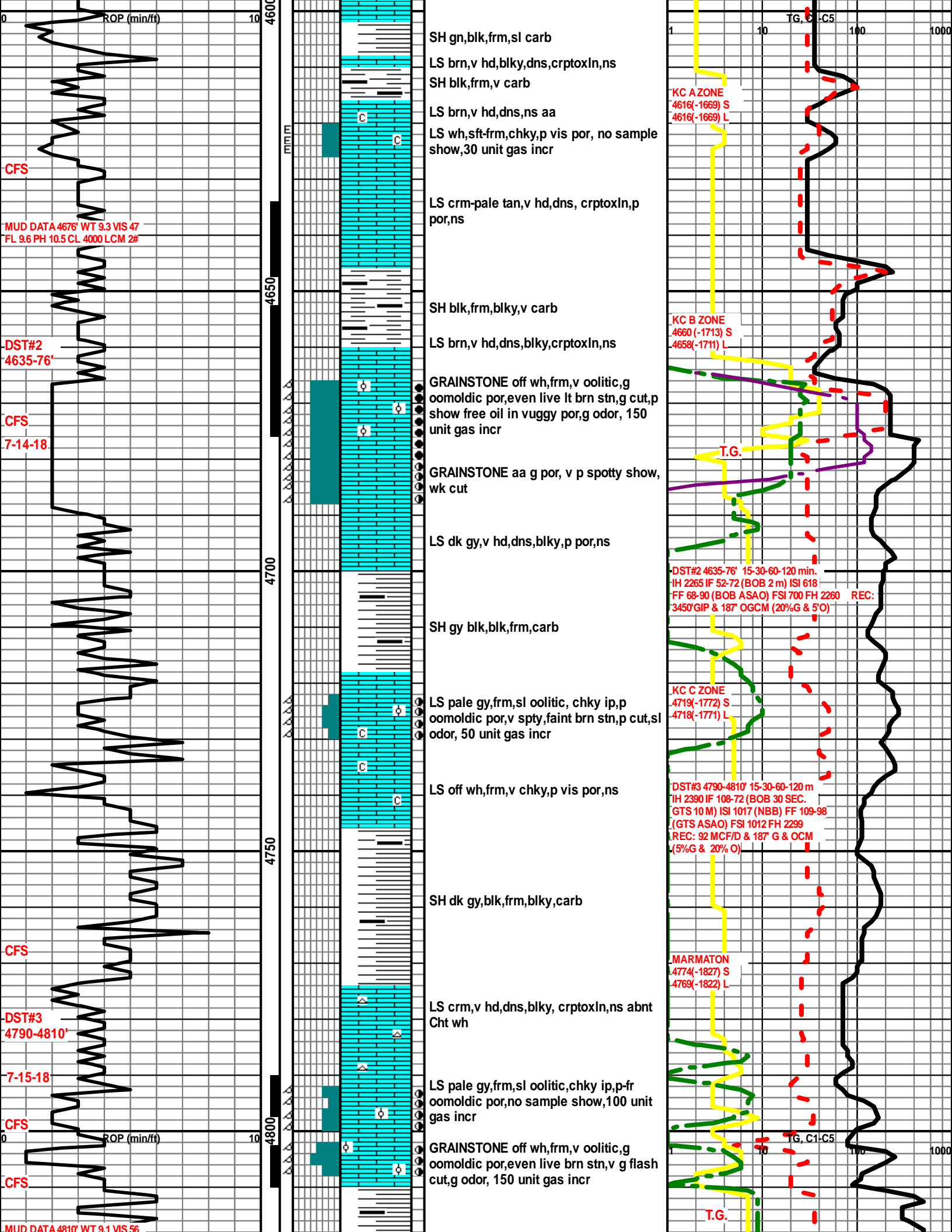
LS brn,v hd,foss,blk,y,ns

7-13-18

LS crm,frm,microxln,chky, p vis por,ns

MUD DATA 4554' WT 9.4 VIS 44
FL 11.2 PH 9.0 CL 4400 LCM 3#

LS gy brn,brn,v hd,dns, crptoxln,ns



CFS
7-16-18

CFS

MUD DATA 4898 WT 9.1 VIS 50
FL 10.0 PH 10.0 CL 4350 LCM 4#

CFS

ROP (min/ft) 0 10

4850

4900

4950

5000

SH gy gy blk,blk,frm,blk,carb

LS crm-lt tan,v hd,dns,crptoxln,ns with thin SH aa

SH blk,frm,blk,v carb
LS crm,v hd,dns,sl oolitic,p por,ns

LS crm,frm,sl oomoldic,p moldic por,v spty faint stn,v wk cut,no free oil

LS lt brn, v hd,dns,crptoxln, ns

SH blk,frm,blk,v carb

GRAINSTONE off wh-pale gy,sft, v oolitic,fr-g moldic por,ns

LS crm,v hd,dns,crptoxln,ns

SH dk gy,blk,frm,carb

LS gy brn,v hd,v dns,blk, crptoxln

SH dk gy blk,blk,frm,blk,carb

LS crm-lt brn,v hd,dns,crptoxln,ns

SH aa,carb

LS aa

SH dk gy,gn,blk,frm,carb ip

LS aa lt brn,v hd,dns,ns

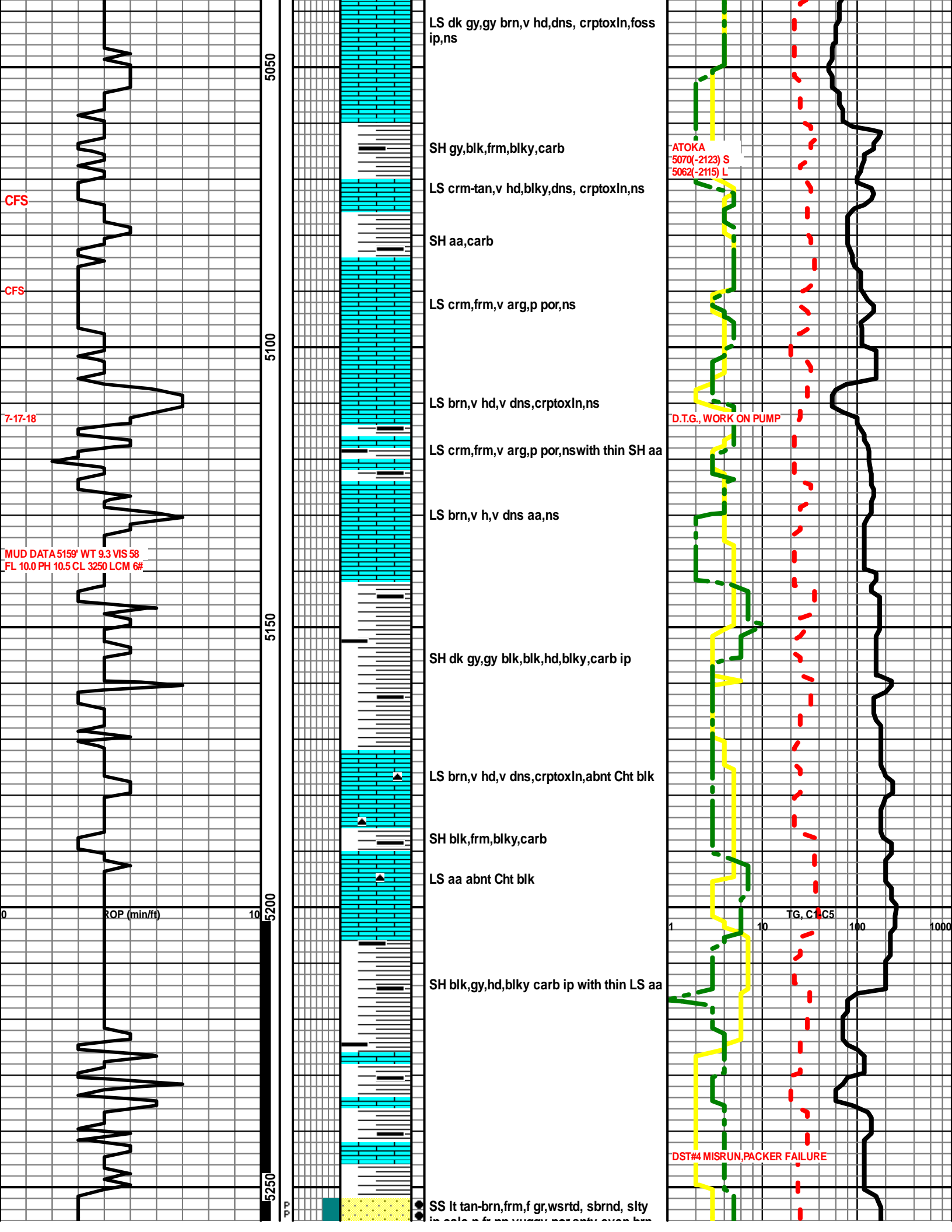
SH gy,gn,blk,frm,carb

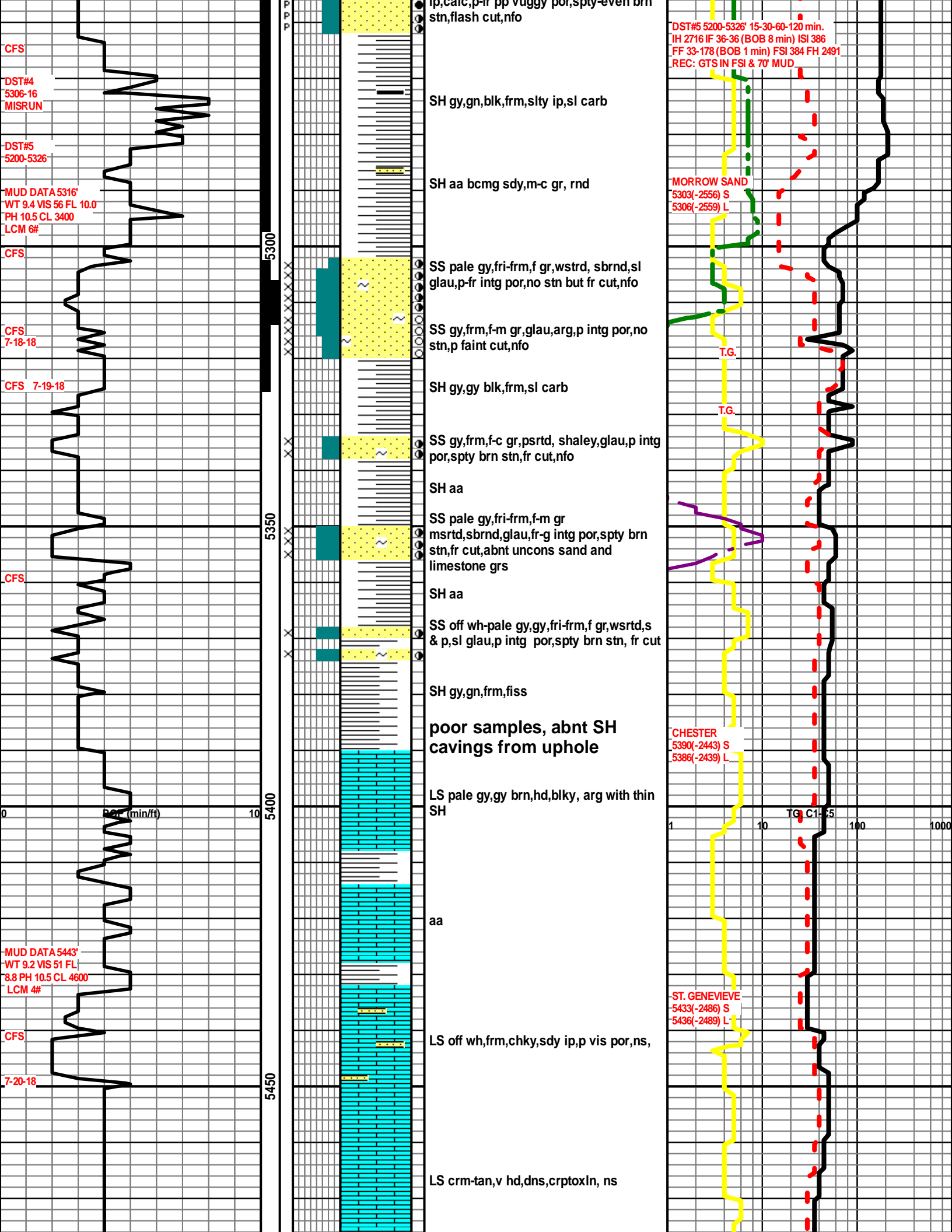
PAWNEE
4880(-1927) S
4878(-1925) L

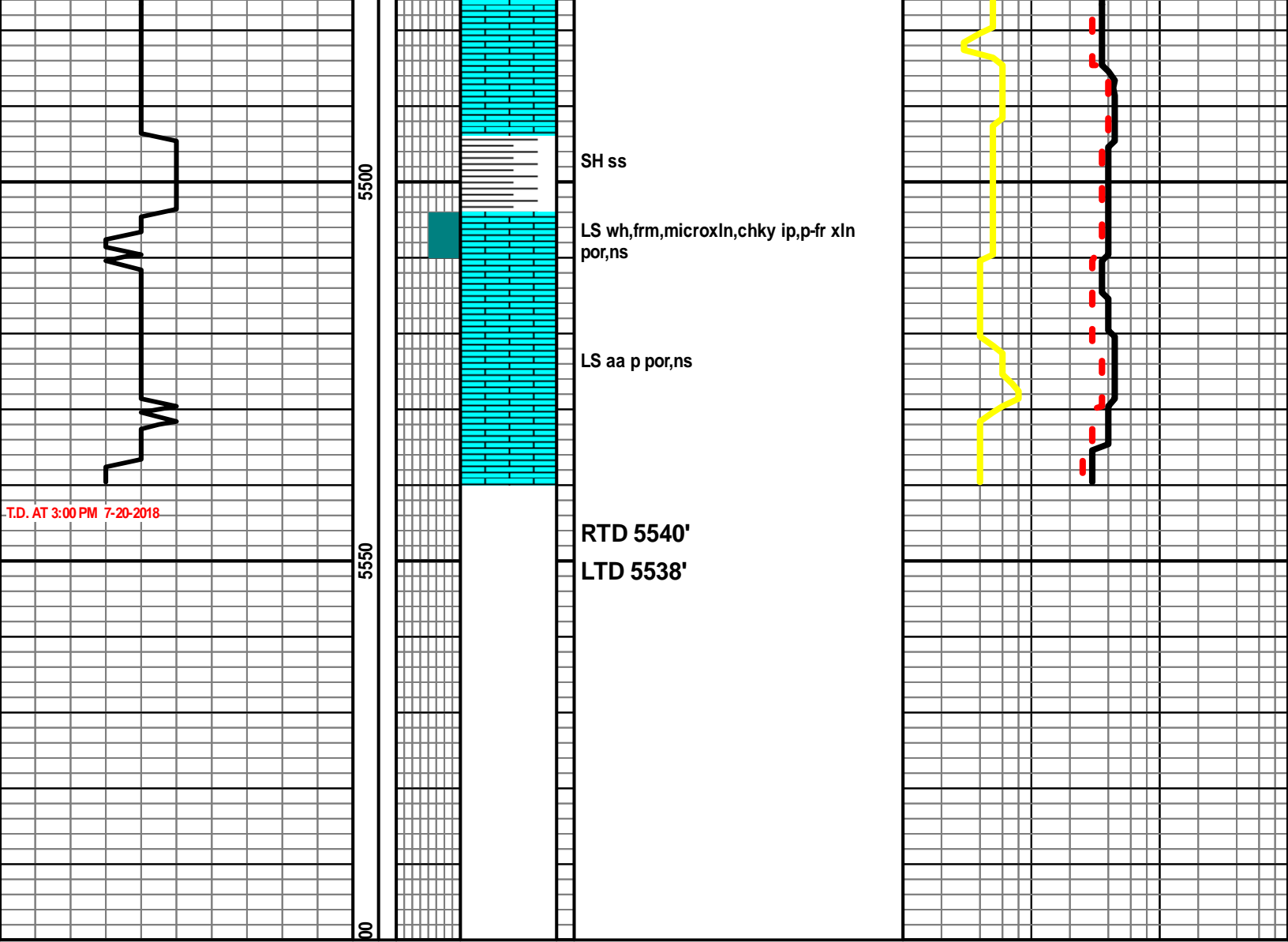
FT SCOTT
4912(-1965) S
4910(-1963) L

CHEROKEE
4928(-1981) S
4930(-1983) L

1 10 100 1000 TG, C1-C5







Cementing Treatment



SQUEEZE

| | |
|---------------------------------|---------------------|
| Injection Rate (bpm) | Fluid Density (ppg) |
| Injection Pressure (psi) | ISIP (psi) |
| Type of Squeeze | FSIP (psi) |
| Operators Max SQ Pressure (psi) | |

COMMENTS

Treatment Report

Job Summary

FIRST STAGE

43 BBL LEAD CEMENT AT 12#/g

64 BBL TAIL CEMENT AT 14.8 #/g

DROP LATCH DOWN PLUG

DISPLACE 50 BBL WATER AND 80 BBL MUD

BUMP PLUG 500 PSI OVER 1100-1600 PSI

CHECK FLOATS, DROP OPENING TOOL

OPEN DV TOOL 740 PSI BRAKE CIRCULATION 200 PSI, SWAP TO RIG

CANT DO SECOND STAGE, RAINED HARD LOCATION IS OVER FLOODED WAITING FOR BULLDOZER

SECOND STAGE

CEMENT RAT & MKOUSE HOLES

117.5 BBL LEAD CEMENT AT 12 #/g

13.5 BBL TAIL CEMENT AT 14.8 #/g

DROP CLOSING PLUG

DISPLACE 76 BBL WATER

BUMP PLUG 1500 PSI OVER

600-2200 PSI, CHECK FLOATS, HOLDING

DONE