

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or  
Recompletion Date 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](mailto: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
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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
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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:	
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Form	ACO1 - Well Completion
Operator	Joe Gerstner Oil, LLC
Well Name	KIND 1
Doc ID	1412531

All Electric Logs Run

CNDL
DIL
ML
SL

Form	ACO1 - Well Completion
Operator	Joe Gerstner Oil, LLC
Well Name	KIND 1
Doc ID	1412531

Tops

Name	Top	Datum
Anhydrite	2254	+688
Base Anhydrite	2311	+631
Heebner	3904	-962
Toronto	3918	-976
Lansing	3948	-1006
Muncie Creek	4122	-1180
Stark Shale	4218	-1276
BKC	4304	-1362
Marmaton	4356	-1414
Pawnee	4435	-1493
Myrick Station	4458	-1516
Ft. Scott	4475	-1533
Cherokee Shale	4497	1555
Mississippian	4565	-1623
RTD	4715	-1773





Home  
(785) 798-2400

# Andrew Stenzel Geologist

Ness City, Kansas



Cell  
(785) 798-5977

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

Well Name: Kind #1  
Well Id:  
Location: NW-NE-SW-NE Sec. 9-18S-31W (Scott County)  
License Number: 15-171-21224  
Spud Date: 5/21/18  
Surface Coordinates: 1571' FNL & 1926' FEL  
Region: KANSAS  
Drilling Completed: 6/1/18

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 2934  
Logged Interval (ft): 3600 To: TD  
Formation: MISSISSIPPIAN  
Type of Drilling Fluid: Mud-Co Chemical  
K.B. Elevation (ft): 2942  
Total Depth (ft): 4715

Printed by MudLog from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

### OPERATOR

Company: Joe Gerstner Oil, LLC  
Address: PO Box 509  
Ness City, KS 67560

### GEOLOGIST

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

### Drilling Report

#### DAILY DRILLING REPORT:

5/18/18 Moved in, rigged up, waited on location to dry  
5/21/18 Ran Surface Casing  
5/22/18 Drilling @ 1114'  
5/23/18 Drilling @ 2725'  
5/24/18 Drilling @ 3342'  
5/25/18 Drilling @ 3811'  
5/26/18 DST #1, DST #2  
5/27/18 Drilling @ 4188', DST #3  
5/28/18 Drilling @ 4265', DST #4  
5/29/18 Drilling @ 4409', DST #5  
5/30/18 Drilling @ 4460', DST #6  
5/31/18 Drilling @ 4584', DST #7  
6/1/18 Logged, Plugged & abandoned

## Services

RIG: WW Drilling, Rig #12

MUD: MUDCO

LOGS: Gemini Wireline, CNDL, DIL, ML, SL

## Casing Record

SURFACE Casing: Ran 10 jts new 8 5/8", 23# surface casing set at 429'.

PRODUCTION Casing: None

## Formation Tops

Sample Tops		LogTops	
Anhy.	2296 (+646)	Anhy.	2254 (+688)
Base Anhy.	2322 (+620)	Base Anhy.	2311 (+631)
Heebner	3904 (-962)	Heebner	3904 (-962)
Toronto	3920 (-978)	Toronto	3918 (-976)
Lansing	3951 (-1009)	Lansing	3948 (-1006)
Muncie Creek	4126 (-1184)	Muncie Creek	4122 (-1180)
Stark Sh	4219 (-1277)	Stark Sh	4218 (-1276)
BKC	4302 (-1360)	BKC	4304 (-1362)
Marmaton	4353 (-1411)	Marmaton	4356 (-1414)
Pawnee	4433 (-1491)	Pawnee	4435 (-1493)
Myrick Station	4460 (-1518)	Myrick Station	4458 (-1516)
Ft. Scott	4481 (-1539)	Ft. Scott	4475 (-1533)
Cher. Sh.	4503 (-1561)	Cher. Sh.	4497 (-1555)
Miss.	4564 (-1622)	Miss.	4565 (-1623)
RTD	4715 (-1773)	LTD	4715 (-1773)



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63675 **DST#: 1**

ATTN: Andrew Stenzel

Test Start: 2018.05.26 @ 01:59:00

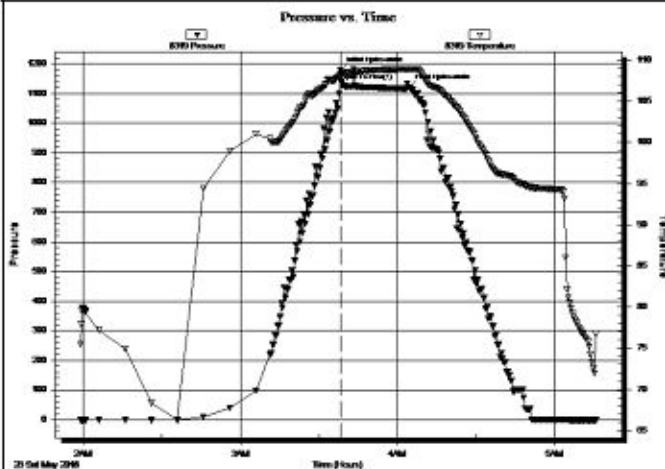
## GENERAL INFORMATION:

Formation: **LKC E**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:38:30  
 Time Test Ended: 05:15:45  
 Interval: **4042.00 ft (KB) To 4058.00 ft (KB) (TVD)**  
 Total Depth: 4058.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 2942.00 ft (KB)  
 2934.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8319

Press@RunDepth: psig @ ft (KB)  
 Capacity: 8000.00 psig  
 Start Date: 2018.05.26 End Date: 2018.05.26 Last Calib.: 2018.05.26  
 Start Time: 01:59:05 End Time: 05:15:45 Time On Btm: 2018.05.26 @ 03:38:15  
 Time Off Btm: 2018.05.26 @ 04:04:15

TEST COMMENT: Hit bridge 27 stands from bottom, Came out of hole.



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1178.89	108.21	Initial Hydro-static
1	1142.32	108.22	Open To Flow (1)
26	1120.34	108.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)

## Gas Rates

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





**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63677 **DST#:2**

ATTN: Andrew Stenzel

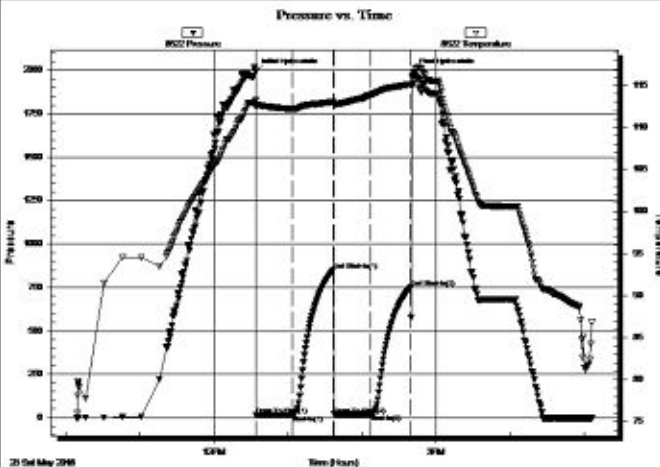
Test Start: 2018.05.26 @ 10:09:00

### GENERAL INFORMATION:

Formation: **LKC E**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:34:15  
 Time Test Ended: 17:05:45  
 Interval: **4042.00 ft (KB) To 4058.00 ft (KB) (TVD)**  
 Total Depth: 4058.00 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: 2942.00 ft (KB)  
 2934.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8522 Inside**  
 Press@RunDepth: 19.46 psig @ 4043.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.05.26 End Date: 2018.05.26 Last Calib.: 2018.05.26  
 Start Time: 10:09:05 End Time: 17:05:44 Time On Btm: 2018.05.26 @ 12:34:00  
 Time Off Btm: 2018.05.26 @ 14:41:15

**TEST COMMENT:** IF: Surface blow.  
 IS: No return.  
 FF: No blow.  
 FS: No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1991.01	113.22	Initial Hydro-static
1	15.86	112.49	Open To Flow (1)
30	17.64	112.20	Shut-In(1)
63	850.38	113.06	End Shut-In(1)
64	18.24	112.65	Open To Flow (2)
93	19.46	113.85	Shut-In(2)
125	749.44	115.12	End Shut-In(2)
128	1988.96	115.17	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m (oil spots)	0.05

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63678 **DST#:3**

ATTN: Andrew Stenzel

Test Start: 2018.05.27 @ 13:10:00

### GENERAL INFORMATION:

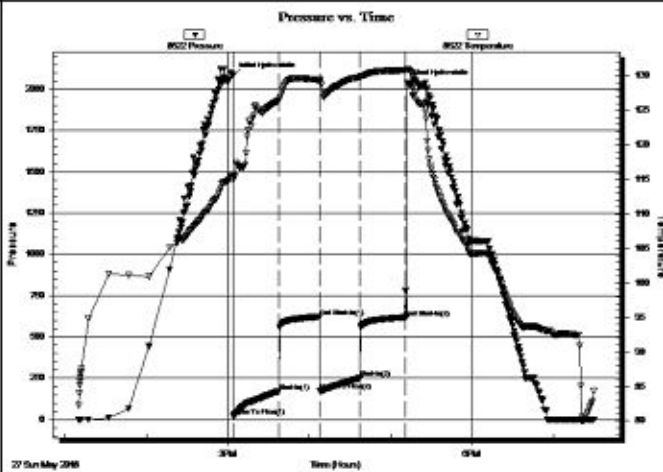
Formation: **LKC J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:04:00  
 Time Test Ended: 19:30:30  
 Interval: **4191.00 ft (KB) To 4216.00 ft (KB) (TVD)**  
 Total Depth: 4198.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 2942.00 ft (KB)  
 2934.00 ft (CF)  
 KB to GR/CF: 8.00 ft

### Serial #: 8522

Inside

Press@RunDepth: 251.19 psig @ 4192.00 ft (KB)  
 Start Date: 2018.05.27 End Date: 2018.05.27  
 Start Time: 13:10:05 End Time: 19:30:29  
 Capacity: 8000.00 psig  
 Last Calib.: 2018.05.27  
 Time On Btmr: 2018.05.27 @ 15:03:45  
 Time Off Btmr: 2018.05.27 @ 17:12:30

TEST COMMENT: IF: BOB @ 12 min. Built to 23".  
 IS: No return.  
 FF: BOB @ 15 min. Built to 18".  
 FS: No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2080.42	115.53	Initial Hydro-static
1	20.29	114.87	Open To Flow (1)
34	171.21	126.44	Shut-In(1)
64	622.38	129.46	End Shut-In(1)
65	173.24	129.14	Open To Flow (2)
94	251.19	129.82	Shut-In(2)
127	618.77	130.81	End Shut-In(2)
129	2038.70	131.00	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
530.00	mcw 5m 95w (oil spots in tool)	5.78

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63679 **DST#: 4**

ATTN: Andrew Stenzel

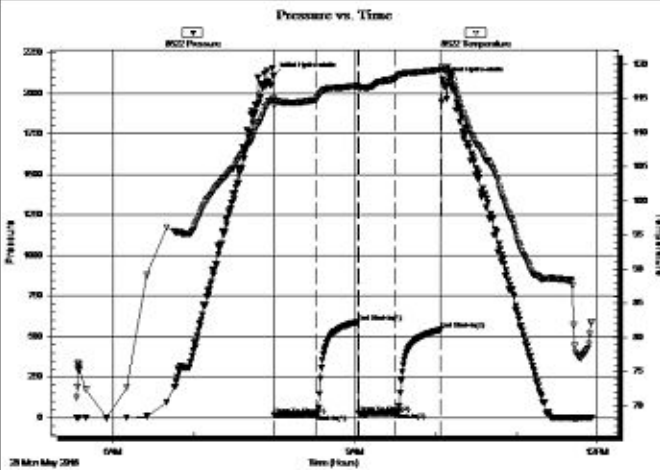
Test Start: 2018.05.28 @ 05:23:00

## GENERAL INFORMATION:

Formation: **LKC K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:50:00  
 Time Test Ended: 11:46:15  
 Interval: **4215.00 ft (KB) To 4261.00 ft (KB) (TVD)**  
 Total Depth: 4215.00 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: 2942.00 ft (KB)  
 2934.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8522 Inside**  
 Press@RunDepth: 32.02 psig @ 4216.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.05.28 End Date: 2018.05.28 Last Calib.: 2018.05.28  
 Start Time: 05:33:05 End Time: 11:56:14 Time On Btm: 2018.05.28 @ 07:59:45  
 Time Off Btm: 2018.05.28 @ 10:05:00

TEST COMMENT: IF: 1" blow.  
 IS: No return.  
 FF: No blow.  
 FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2111.66	115.01	Initial Hydro-static
1	17.41	113.94	Open To Flow (1)
31	24.50	114.80	Shut-In(1)
63	590.77	116.89	End Shut-In(1)
63	25.72	116.48	Open To Flow (2)
91	32.02	118.00	Shut-In(2)
124	542.08	119.23	End Shut-In(2)
126	2084.93	119.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100m	0.15

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63680 **DST#: 5**

ATTN: Andrew Stenzel

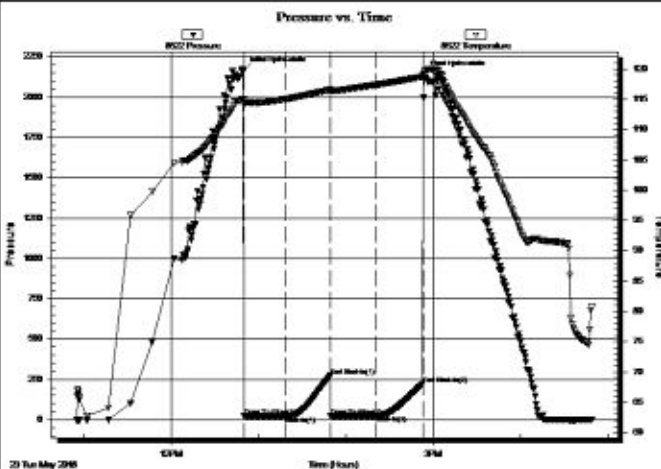
Test Start: 2018.05.29 @ 10:55:00

### GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:50:18  
 Time Test Ended: 16:49:02  
 Interval: **4314.00 ft (KB) To 4420.00 ft (KB) (TVD)**  
 Total Depth: 4420.00 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: 2942.00 ft (KB)  
 2934.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8522 Inside**  
 Press@RunDepth: 25.91 psig @ 4315.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.05.29 End Date: 2018.05.29 Last Calib.: 2018.05.29  
 Start Time: 10:55:23 End Time: 16:49:02 Time On Btm: 2018.05.29 @ 12:50:03  
 Time Off Btm: 2018.05.29 @ 14:54:03

TEST COMMENT: IF: 1" blow.  
 IS: No return.  
 FF: No blow.  
 FS: No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2165.71	115.03	Initial Hydro-static
1	22.67	114.04	Open To Flow (1)
29	24.46	115.03	Shut-In(1)
60	274.29	116.59	End Shut-In(1)
60	22.67	116.26	Open To Flow (2)
91	25.91	117.39	Shut-In(2)
123	222.95	118.73	End Shut-In(2)
124	2143.29	119.58	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m	0.05

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63681 **DST#: 6**

ATTN: Andrew Stenzel

Test Start: 2018.05.30 @ 02:21:00

### GENERAL INFORMATION:

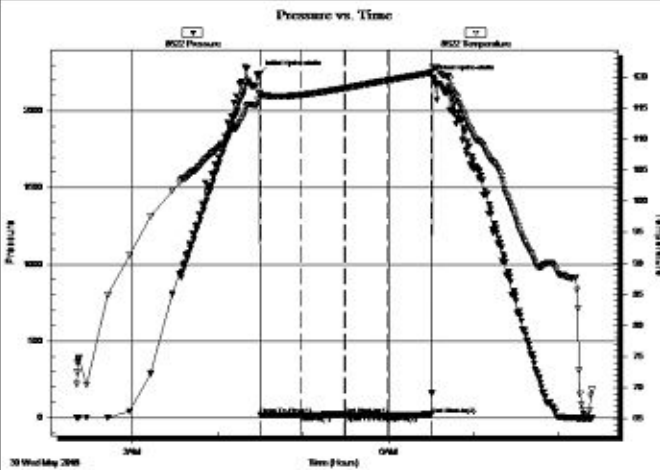
Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:30:00  
 Time Test Ended: 08:23:00  
 Interval: **4431.00 ft (KB) To 4460.00 ft (KB) (TVD)**  
 Total Depth: 4460.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 2942.00 ft (KB)  
 2934.00 ft (CF)  
 KB to GR/CF: 8.00 ft

### Serial #: 8522

Inside

Press@RunDepth: 18.68 psig @ 4432.00 ft (KB)  
 Start Date: 2018.05.30 End Date: 2018.05.30  
 Start Time: 02:21:05 End Time: 08:22:59  
 Capacity: 8000.00 psig  
 Last Calib.: 2018.05.30  
 Time On Btmr: 2018.05.30 @ 04:29:45  
 Time Off Btmr: 2018.05.30 @ 06:31:30

TEST COMMENT: IF: 1/2" blow.  
 IS: No return  
 FF: No blow.  
 FS: No return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.39	117.52	Initial Hydro-static
1	18.01	116.80	Open To Flow (1)
29	18.80	117.10	Shut-In(1)
60	21.07	118.21	End Shut-In(1)
60	18.23	118.22	Open To Flow (2)
89	18.68	119.44	Shut-In(2)
121	19.68	120.69	End Shut-In(2)
122	2212.54	121.47	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100m	0.01

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63682 **DST#:7**

ATTN: Andrew Stenzel

Test Start: 2018.05.31 @ 00:58:00

### GENERAL INFORMATION:

Formation: **Ft. Scott - Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:02:45

Time Test Ended: 08:11:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4474.00 ft (KB) To 4584.00 ft (KB) (TVD)**

Total Depth: 4584.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2942.00 ft (KB)

2934.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8522 Inside**

Press@RunDepth: 20.14 psig @ 4475.00 ft (KB)

Start Date: 2018.05.31

End Date: 2018.05.31

Start Time: 00:58:05

End Time: 08:11:44

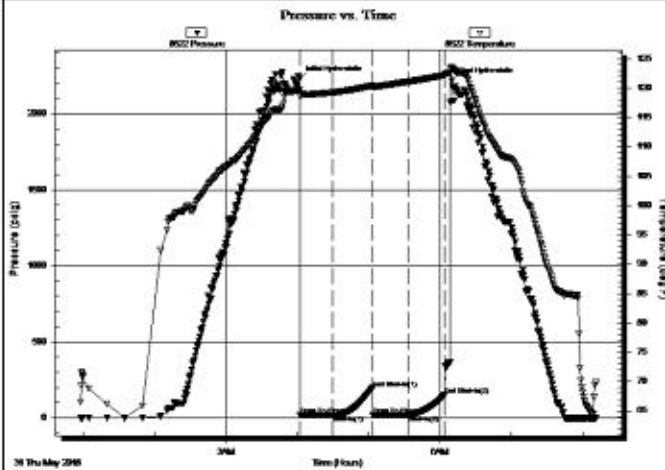
Capacity: 8000.00 psig

Last Calib.: 2018.05.31

Time On Btm: 2018.05.31 @ 04:02:30

Time Off Btm: 2018.05.31 @ 06:10:00

**TEST COMMENT:** IF: 1/2" blow.  
IS: No return.  
FF: No blow.  
FS: No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2228.32	119.72	Initial Hydro-static
1	17.48	118.50	Open To Flow (1)
28	18.99	119.26	Shut-In(1)
61	194.22	120.40	End Shut-In(1)
62	19.18	120.17	Open To Flow (2)
91	20.14	121.08	Shut-In(2)
122	148.04	122.19	End Shut-In(2)
128	2218.36	123.35	Final Hydro-static

### Recovery


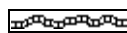
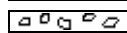
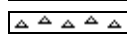
Length (ft)	Description	Volume (bbl)
15.00	Mud 100m	0.07

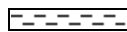



\* Recovery from multiple tests





### Gas Rates

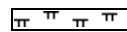

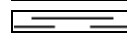
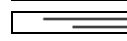
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

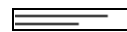



### ROCK TYPES

-  Anhy
-  Bent
-  Brec
-  Cht

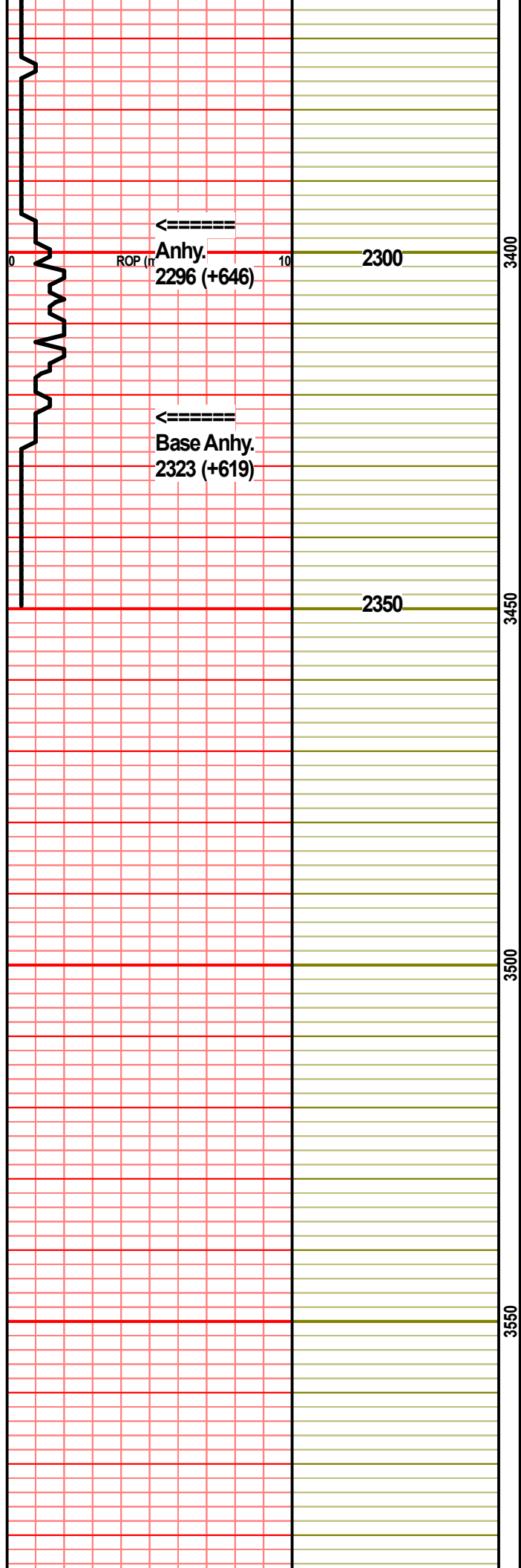
-  Clyst
-  Carb shale
-  Congl
-  Dol

-  Gyp
-  Igne
-  Lmst
-  Meta

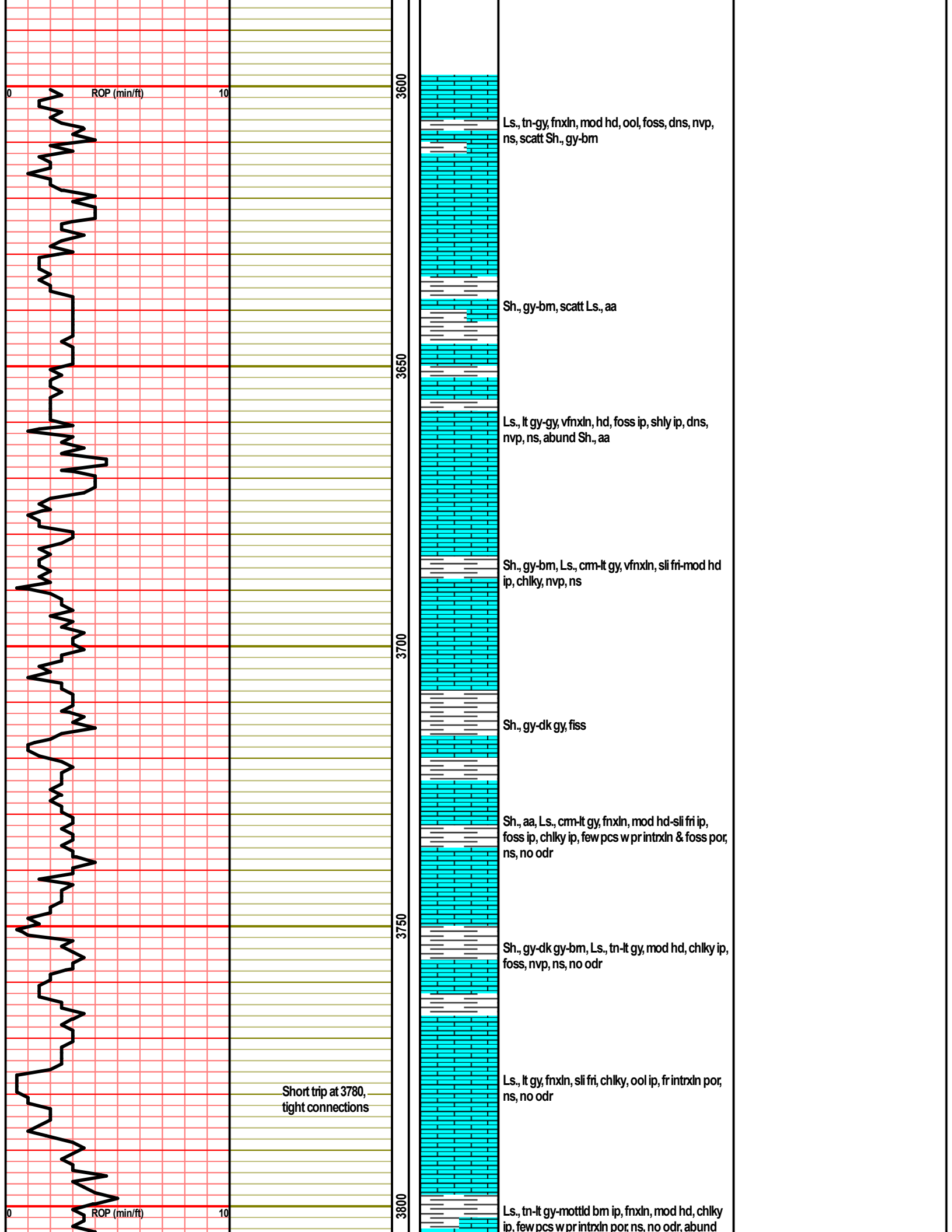
-  Mrlst
-  Salt
-  Shale
-  Shcol

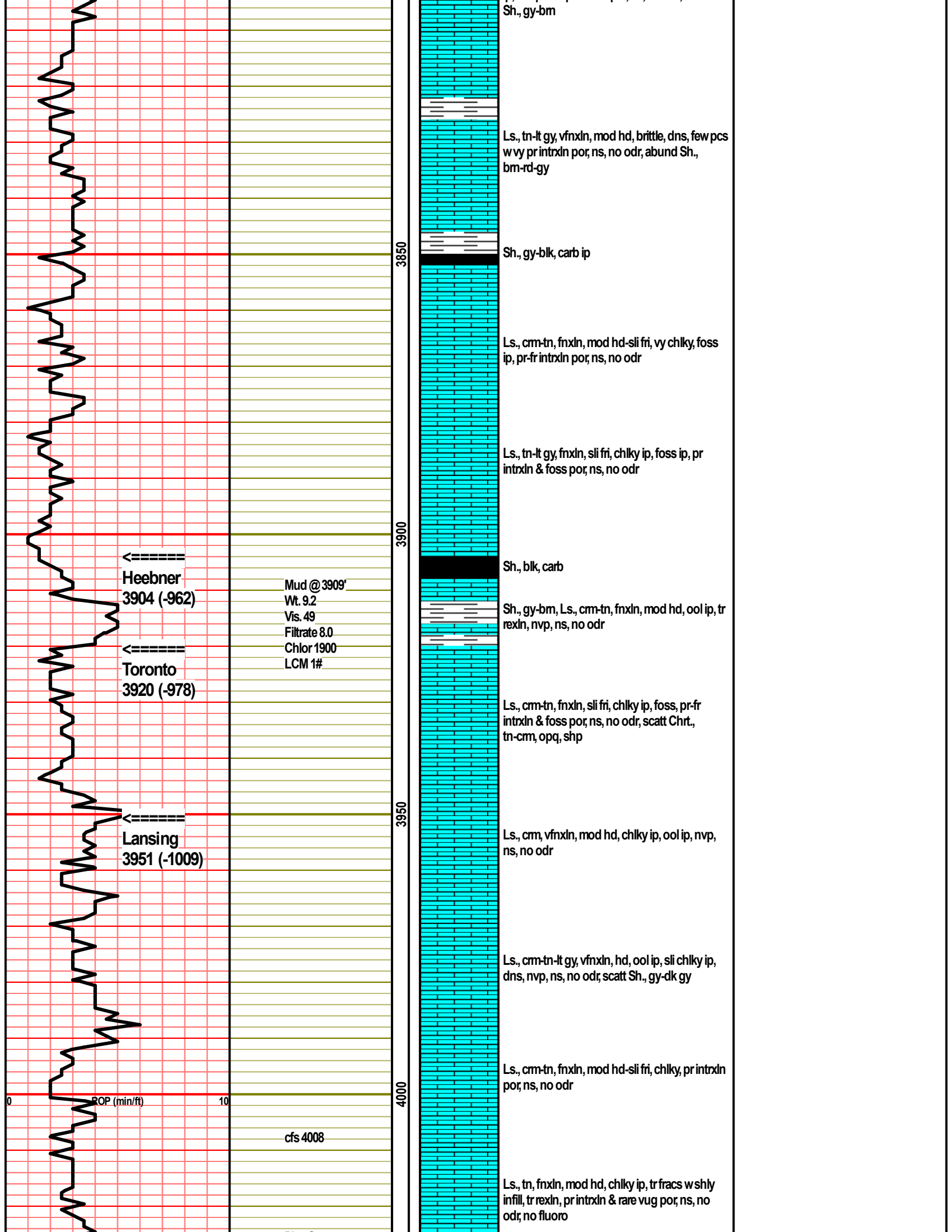
-  Shgy
-  Sltst
-  Ss
-  Till

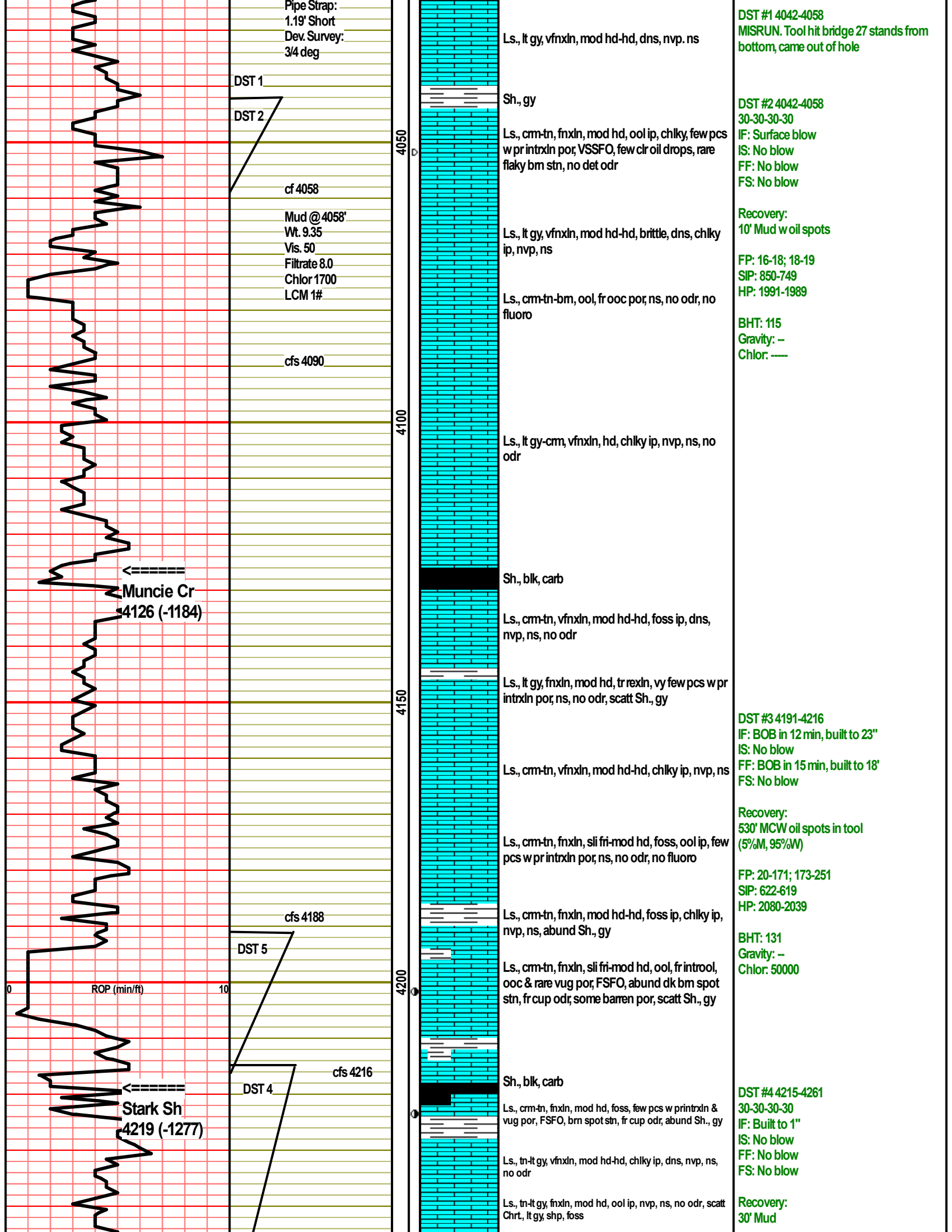
ROP ROP (min/ft)	Misc	Depth <small>Of Shows</small>	% Lithology	Geological Descriptions	DST
0 — 10 ROP (min/ft)		32			
		3250			
		3300			
	2250	3350			

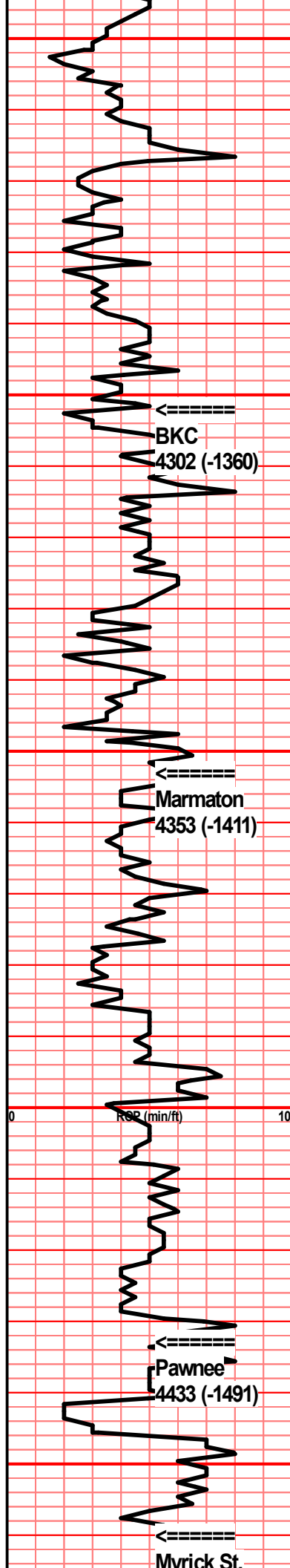












cfs 4261

Mud @ 4261'  
Wt. 9.4  
Vis. 49  
Filtrate 8.8  
Chlor 4500  
LCM 1#

cfs 4304

DST 5

cfs 4385

cfs 4420

Mud @ 4420'  
Wt. 9.5  
Vis. 53  
Filtrate 9.6  
Chlor 3500  
LCM 1#

cfs 4460

Mud @ 4460'

Ls., crm-tn, fnxln, sli fri-mod hd, chky ip, ool ip, rare pr intrxn por, VSSFO ip, few clr oil beads, tr lt brn stn, fr cup odr

Sh., blk, carb, vy soft, greasy, sli sulfur odr in cup

Ls., tn-lt gy, fnxln, sli fri-mod hd, foss ip, sli chky ip, scatt pcs w pr-fr intrxn & vug por, SSFO, spot stn, few pcs barren, fr cup odr, abund Sh., gy-brn

Ls., crm, vfnxln, soft, vy chky, few oolites in chlk, nvp, ns, no odr

Ls., tn-lt gy, fnxln, mod hd, chky ip, foss ip, vy few pcs w pr intrxn por, VSSFO ip, barren ip, tr lt brn stn, quest odr

Ls., crm-lt gy, vfnxln, mod hd, shly ip, nvp, ns, scatt Chrt., lt gy, spic, shp, scatt Sh., gy

Ls., fnxln, hd, foss, dns, nvp, ns, scatt Sh., gy-bm

Sh., gy-gm-bm, Ls., aa

Sh., gy-bm, Ls, tn-lt gy, fnxln, mod hd-hd, brittle, foss ip, nvp, ns, no odr

Ls., crm-tn, fnxln, mod hd, sli chky ip, foss ip, few pcs w vy pr intrxn por, ns, no odr

Ls., tn-lt gy, fnxln, mod hd, foss, few pcs w pr intrxn & iso vug por, tr brn stn in couple pcs, NSFO, no det odr, scatt Sh., gy

Ls., crm-tn-gy, fnxln, sli fr-mod hd, sli chky ip, few pcs w pr intrxn por, tr stn in vy few, NSFO, no det odr, abund Sh., gy, fiss, bm, soft

Ls., crm-tn, fnxln, mod hd-hd, ool ip, tr frac w vy pr frac por, few w blk stn along por, NSFO, no det odr

Ls., tn, fnxln, mod hd-hd, ool, sli chky ip, nvp, ns, no odr, scatt Sh., gy, fiss

Ls., lt gy, fnxln, mod hd, ool, chky ip, dns, nvp, ns, no odr

Sh., blk, carb

Ls., crm-lt gy, vfn-fnxln, mod hd, tr rexdn, scatt pcs w pr-fr intrxn & fr iso vug por, FSFO, few pcs sli chky w fr intrxn por w GSFO, lt brn spot stn, some edge stn, vy wk cup odr

Ls., tn-bm-lt gy, fnxln, mod hd, dns, nvp, ns, scatt Sh., gy-bm

Sh., blk, carb

FP: 17-25; 26-32  
SIP: 591-542  
HP: 2167-2085

BHT: 115  
Gravity: -  
Chlor: ---

DST #5 4314-4420  
30-30-30-30  
IF: Built to 1"  
IS: No blow  
FF: No blow  
FS: No blow

Recovery:  
10' Mud

FP: 23-24; 23-26  
SIP: 274-223  
HP: 2166-2143

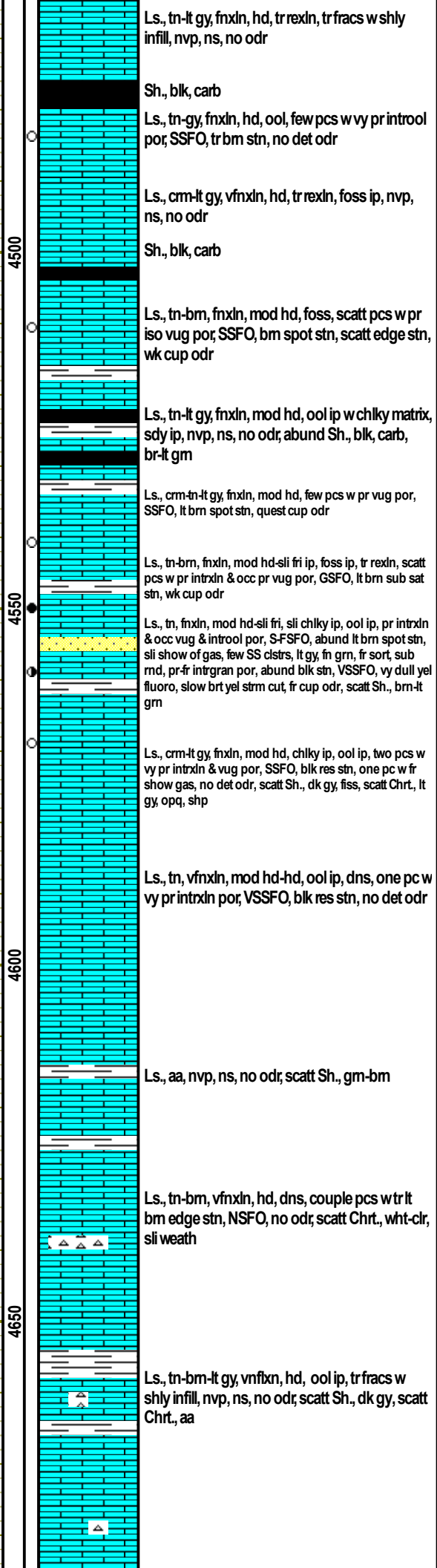
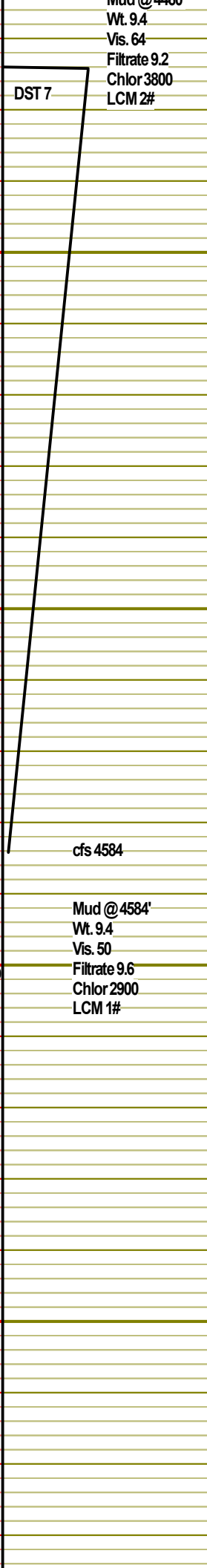
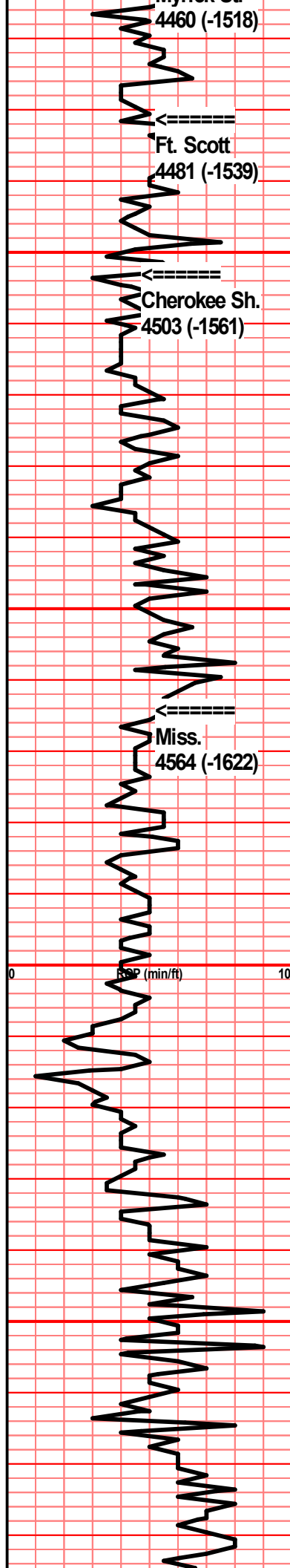
BHT: 119  
Gravity: -  
Chlor: ---

DST #6 4431-4460  
IF: Built to 1/2"  
IS: No blow  
FF: No blow  
FS: No blow

Recovery:  
3' Mud

FP: 18-19; 18-19  
SIP: 21-20  
HP: 2241-2213

BHT: 120  
Gravity: -  
Chlor: ---

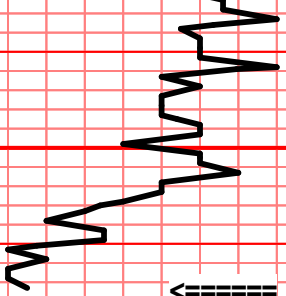


DST #7 4474-4584  
IF: Built to 1/2"  
IS: No blow  
FF: No blow  
FS: No blow

Recovery:  
15' Mud

FP: 17-19; 19-20  
SIP: 194-148  
HP: 2228-2218

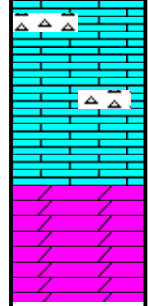
BHT: 122  
Gravity: -  
Chlor: —



←  
RTD  
4715 (-1773)

4700

50



Ls., tn-bm, vřnxln, hd, chlky ip, tr rexln, nvp, ns,  
no odr; incr Chrt., wht-lt gy, shp, spic ip

Dol., tn, vřnxln, firm/hard, vy pr intrxn por ip, ns,  
no odr



## DRILL STEM TEST REPORT

Prepared For: **Joe Gerstner Oil, LLC**

PO Box 509  
Ness City, KS 67560

ATTN: Andrew Stenzel

### **Kind #1**

#### **9-18s-31w Scott,KS**

Start Date: 2018.05.26 @ 01:59:00

End Date: 2018.05.26 @ 05:15:45

Job Ticket #: 63675                      DST #: 1

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

Printed: 2018.06.01 @ 11:09:19

Joe Gerstner Oil, LLC  
9-18s-31w Scott,KS  
Kind #1  
DST # 1  
LKC E  
2018.05.26



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC

**9-18s-31w Scott, KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63675

**DST#: 1**

ATTN: Andrew Stenzel

Test Start: 2018.05.26 @ 01:59:00

## GENERAL INFORMATION:

Formation: **LKC E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:38:30

Time Test Ended: 05:15:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

**Interval: 4042.00 ft (KB) To 4058.00 ft (KB) (TVD)**

Reference Elevations: 2942.00 ft (KB)

Total Depth: 4058.00 ft (KB) (TVD)

2934.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

## Serial #: 8319

Press@RunDepth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.26 End Date: 2018.05.26

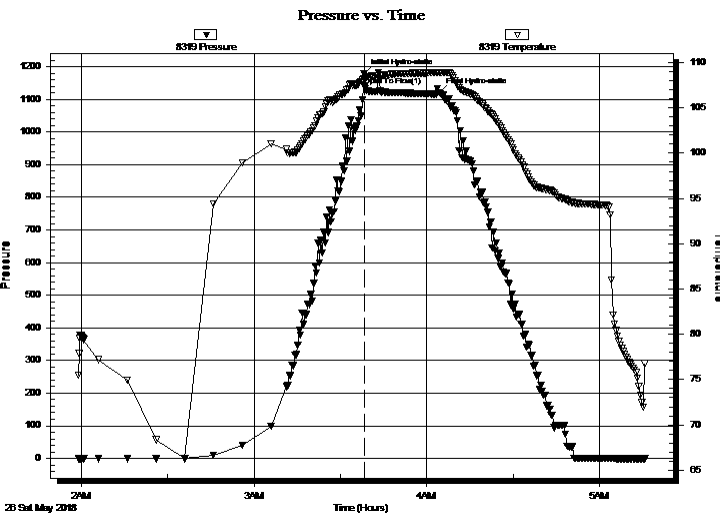
Last Calib.: 2018.05.26

Start Time: 01:59:05 End Time: 05:15:45

Time On Btm: 2018.05.26 @ 03:38:15

Time Off Btm: 2018.05.26 @ 04:04:15

TEST COMMENT: Hit bridge 27 stands from bottom, Came out of hole.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1178.89	108.21	Initial Hydro-static
1	1142.32	108.22	Open To Flow (1)
26	1120.34	108.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63675

**DST#: 1**

ATTN: Andrew Stenzel

Test Start: 2018.05.26 @ 01:59:00

## Tool Information

Drill Pipe:	Length: 3858.00 ft	Diameter: 3.80 inches	Volume: 54.12 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 55.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4042.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4016.00	
Shut In Tool	5.00			4021.00	
Hydraulic tool	5.00			4026.00	
Jars	5.00			4031.00	
Safety Joint	2.00			4033.00	
Packer	5.00			4038.00	27.00 Bottom Of Top Packer
Packer	4.00			4042.00	
Stubb	1.00			4043.00	
Recorder	0.00	8522	Inside	4043.00	
Recorder	0.00	8319	Outside	4043.00	
Perforations	12.00			4055.00	
Bullnose	3.00			4058.00	16.00 Bottom Packers & Anchor

**Total Tool Length: 43.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63675

**DST#: 1**

ATTN: Andrew Stenzel

Test Start: 2018.05.26 @ 01:59:00

## 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

Total Length:                      ft

Total Volume:                      bbl

Num Fluid Samples: 0

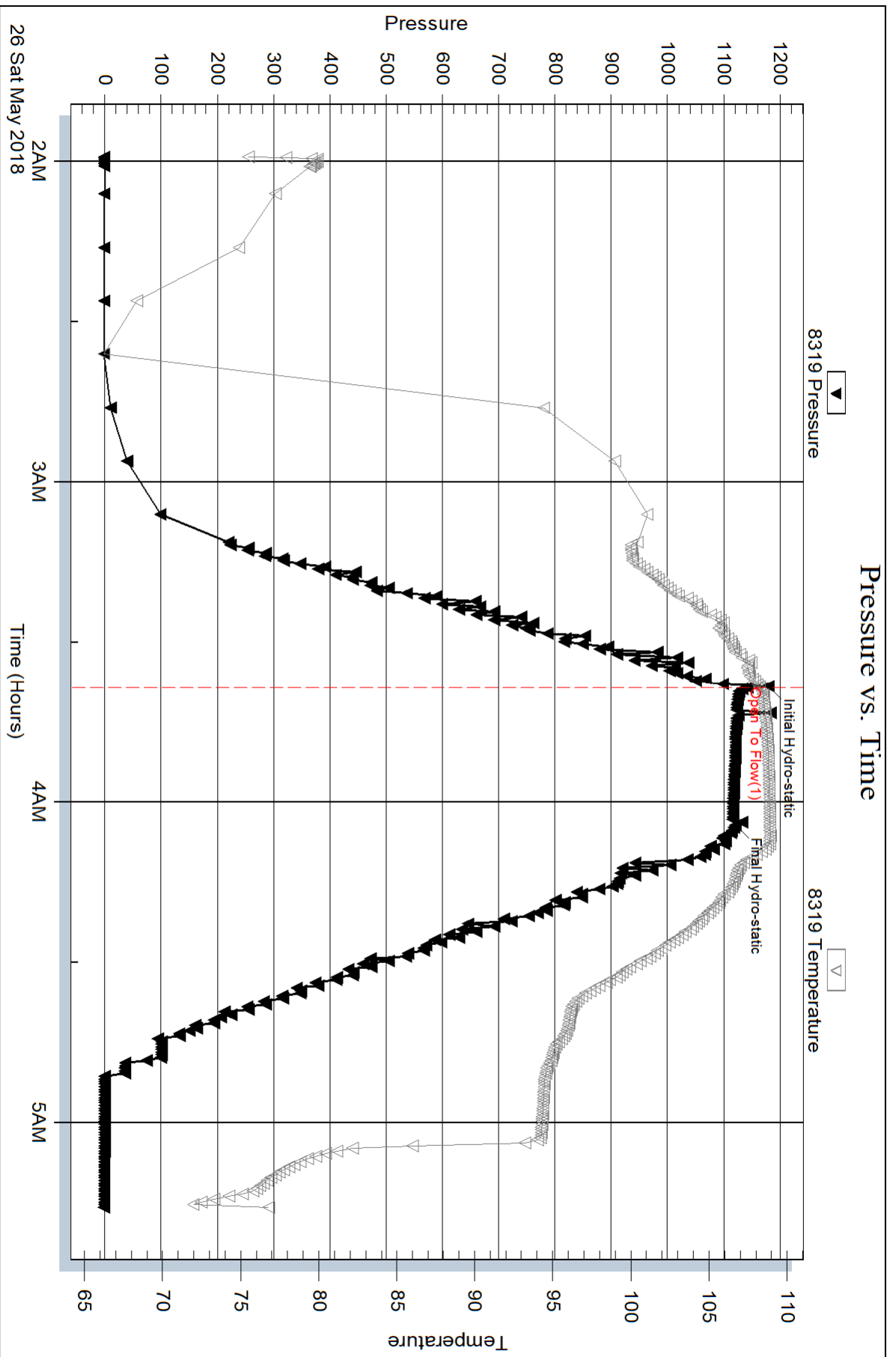
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Mis-run





## DRILL STEM TEST REPORT

Prepared For: **Joe Gerstner Oil, LLC**

PO Box 509  
Ness City, KS 67560

ATTN: Andrew Stenzel

### **Kind #1**

#### **9-18s-31w Scott,KS**

Start Date: 2018.05.26 @ 10:09:00

End Date: 2018.05.26 @ 17:05:45

Job Ticket #: 63677                      DST #: 2

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

Printed: 2018.06.01 @ 11:09:00



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63677

**DST#: 2**

ATTN: Andrew Stenzel

Test Start: 2018.05.26 @ 10:09:00

## GENERAL INFORMATION:

Formation: **LKC E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:34:15

Time Test Ended: 17:05:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4042.00 ft (KB) To 4058.00 ft (KB) (TVD)**

Reference Elevations: 2942.00 ft (KB)

Total Depth: 4058.00 ft (KB) (TVD)

2934.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8522**

**Inside**

Press@RunDepth: 19.46 psig @ 4043.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.26

End Date:

2018.05.26

Last Calib.:

2018.05.26

Start Time: 10:09:05

End Time:

17:05:44

Time On Btm:

2018.05.26 @ 12:34:00

Time Off Btm:

2018.05.26 @ 14:41:15

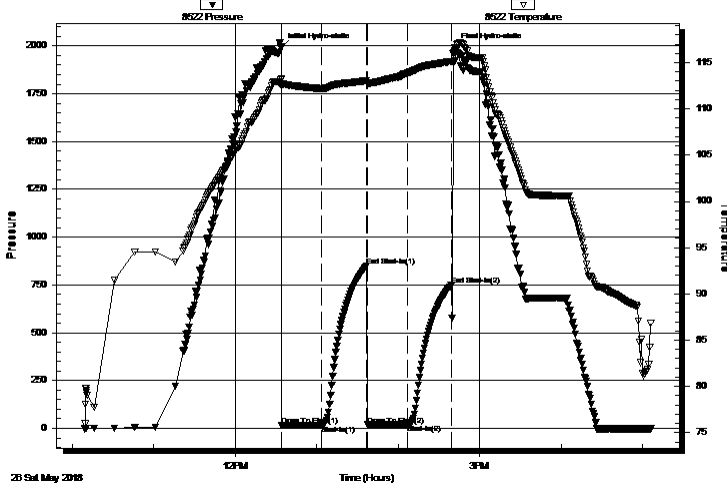
TEST COMMENT: IF: Surface blow .

IS: No return.

FF: No blow .

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1991.01	113.22	Initial Hydro-static
1	15.86	112.49	Open To Flow (1)
30	17.64	112.20	Shut-In(1)
63	850.38	113.06	End Shut-In(1)
64	18.24	112.65	Open To Flow (2)
93	19.46	113.85	Shut-In(2)
125	749.44	115.12	End Shut-In(2)
128	1988.96	115.17	Final Hydro-static

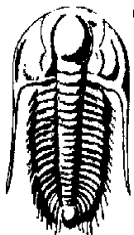
Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m (oil spots)	0.05

Gas Rates

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

\* Recovery from multiple tests



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC

9-18s-31w Scott, KS

PO Box 509  
Ness City, KS 67560

Kind #1

ATTN: Andrew Stenzel

Job Ticket: 63677      **DST#: 2**

Test Start: 2018.05.26 @ 10:09:00

### GENERAL INFORMATION:

Formation: **LKC E**

Deviated: No    Whipstock:                      ft (KB)

Time Tool Opened: 12:34:15

Test Type: Conventional Bottom Hole (Reset)

Time Test Ended: 17:05:45

Tester: Bradley Walter

Unit No: 78

Interval: **4042.00 ft (KB) To 4058.00 ft (KB) (TVD)**

Reference Elevations: 2942.00 ft (KB)

Total Depth: 4058.00 ft (KB) (TVD)

2934.00 ft (CF)

Hole Diameter: 7.88 inches    Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8319      Outside**

Press@RunDepth:                      psig @    4043.00 ft (KB)

Capacity:    8000.00 psig

Start Date:                              2018.05.26                      End Date:                              2018.05.26

Last Calib.:    2018.05.26

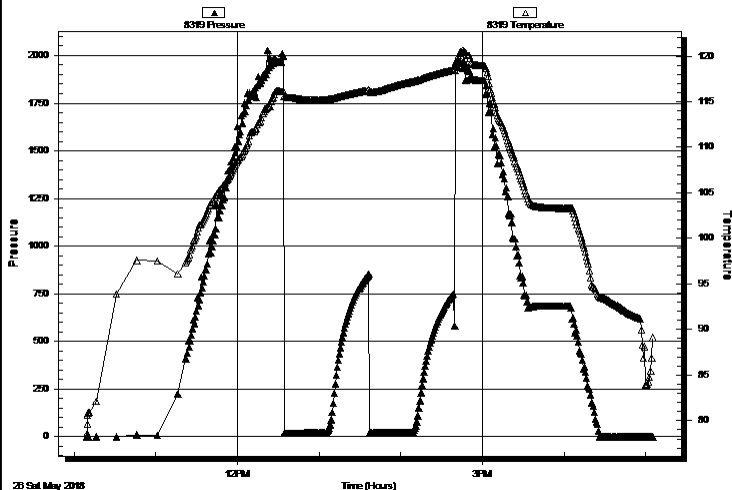
Start Time:                              10:09:05                      End Time:                              17:05:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Surface blow.  
IS: No return.  
FF: No blow.  
FS: No return.

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m (oil spots)	0.05

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63677

**DST#: 2**

ATTN: Andrew Stenzel

Test Start: 2018.05.26 @ 10:09:00

## Tool Information

Drill Pipe:	Length: 3858.00 ft	Diameter: 3.80 inches	Volume: 54.12 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 55.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4042.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4016.00	
Shut In Tool	5.00			4021.00	
Hydraulic tool	5.00			4026.00	
Jars	5.00			4031.00	
Safety Joint	2.00			4033.00	
Packer	5.00			4038.00	27.00 Bottom Of Top Packer
Packer	4.00			4042.00	
Stubb	1.00			4043.00	
Recorder	0.00	8522	Inside	4043.00	
Recorder	0.00	8319	Outside	4043.00	
Perforations	12.00			4055.00	
Bullnose	3.00			4058.00	16.00 Bottom Packers & Anchor

**Total Tool Length: 43.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63677

**DST#: 2**

ATTN: Andrew Stenzel

Test Start: 2018.05.26 @ 10:09:00

## 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100m (oil spots)	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8522

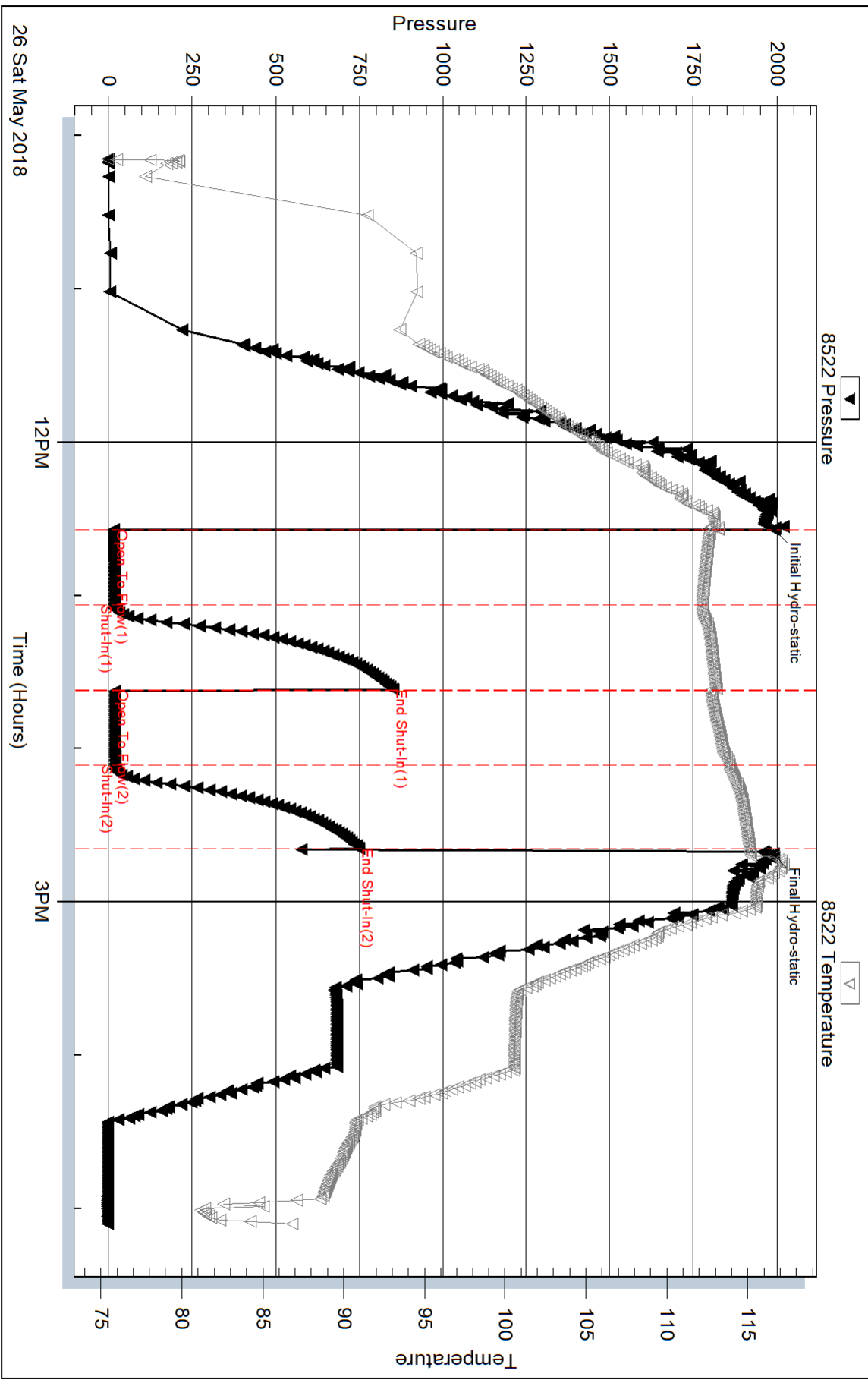
Inside

Joe Gerstner Oil, LLC

Kind #1

DST Test Number: 2

# Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63677

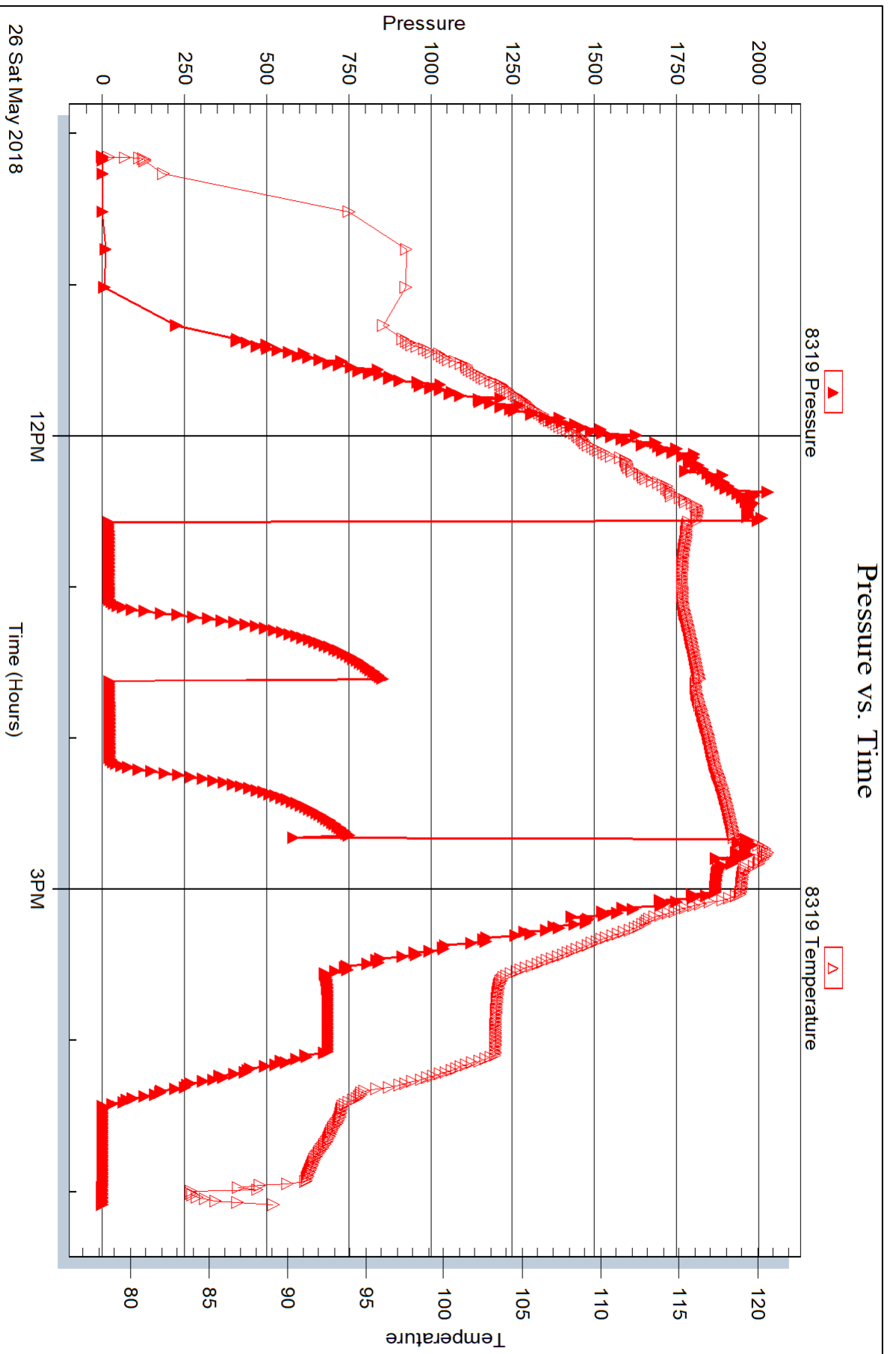
Printed: 2018.06.01 @ 11:09:01

Serial #: 8319

Outside Joe Gerstner Oil, LLC

Kind #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63677

Printed: 2018.06.01 @ 11:09:01



## DRILL STEM TEST REPORT

Prepared For: **Joe Gerstner Oil, LLC**

PO Box 509  
Ness City, KS 67560

ATTN: Andrew Stenzel

### **Kind #1**

#### **9-18s-31w Scott,KS**

Start Date: 2018.05.27 @ 13:10:00

End Date: 2018.05.27 @ 19:30:30

Job Ticket #: 63678                      DST #: 3

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

Printed: 2018.06.01 @ 11:08:38

Joe Gerstner Oil, LLC  
9-18s-31w Scott,KS  
Kind #1  
DST # 3  
LKC J  
2018.05.27



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC  
 PO Box 509  
 Ness City, KS 67560  
 ATTN: Andrew Stenzel

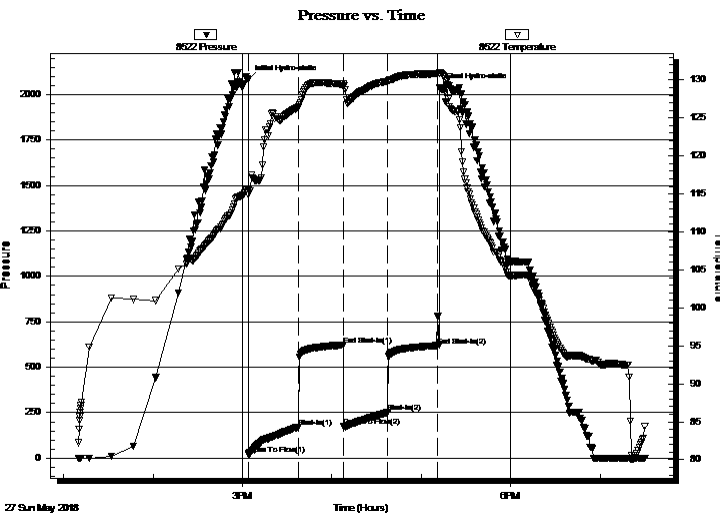
**9-18s-31w Scott,KS**  
**Kind #1**  
 Job Ticket: 63678 **DST#: 3**  
 Test Start: 2018.05.27 @ 13:10:00

## GENERAL INFORMATION:

Formation: **LKC J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:04:00  
 Time Test Ended: 19:30:30  
 Interval: **4191.00 ft (KB) To 4216.00 ft (KB) (TVD)**  
 Total Depth: 4198.00 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: 2942.00 ft (KB)  
 2934.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8522 Inside**  
 Press@RunDepth: 251.19 psig @ 4192.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.05.27 End Date: 2018.05.27 Last Calib.: 2018.05.27  
 Start Time: 13:10:05 End Time: 19:30:29 Time On Btm: 2018.05.27 @ 15:03:45  
 Time Off Btm: 2018.05.27 @ 17:12:30

**TEST COMMENT:** IF: BOB @ 12 min, Built to 23".  
 IS: No return.  
 FF: BOB @ 15 min. Built to 18".  
 FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2080.42	115.53	Initial Hydro-static
1	20.29	114.87	Open To Flow (1)
34	171.21	126.44	Shut-In(1)
64	622.38	129.46	End Shut-In(1)
65	173.24	129.14	Open To Flow (2)
94	251.19	129.82	Shut-In(2)
127	618.77	130.81	End Shut-In(2)
129	2038.70	131.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
530.00	mcw 5m 95w (oil spots in tool)	5.78

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63678

**DST#: 3**

ATTN: Andrew Stenzel

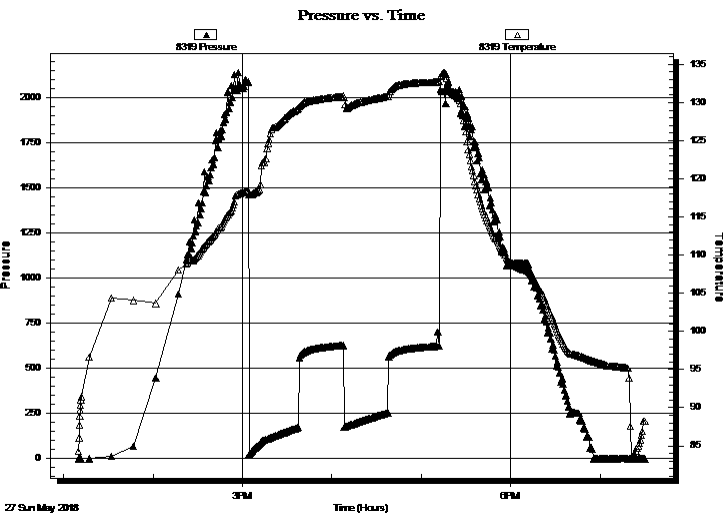
Test Start: 2018.05.27 @ 13:10:00

## GENERAL INFORMATION:

Formation: **LKC J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:04:00  
 Time Test Ended: 19:30:30  
 Interval: **4191.00 ft (KB) To 4216.00 ft (KB) (TVD)**  
 Total Depth: 4198.00 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: 2942.00 ft (KB)  
 2934.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8319 Outside**  
 Press@RunDepth: psig @ 4192.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.05.27 End Date: 2018.05.27 Last Calib.: 2018.05.27  
 Start Time: 13:10:05 End Time: 19:30:29 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF: BOB @ 12 min, Built to 23".  
 IS: No return.  
 FF: BOB @ 15 min. Built to 18".  
 FS: No return.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
530.00	mcw 5m 95w (oil spots in tool)	5.78

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63678

**DST#: 3**

ATTN: Andrew Stenzel

Test Start: 2018.05.27 @ 13:10:00

## Tool Information

Drill Pipe:	Length: 4016.00 ft	Diameter: 3.80 inches	Volume: 56.33 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 57.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4191.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4165.00	
Shut In Tool	5.00			4170.00	
Hydraulic tool	5.00			4175.00	
Jars	5.00			4180.00	
Safety Joint	2.00			4182.00	
Packer	5.00			4187.00	27.00 Bottom Of Top Packer
Packer	4.00			4191.00	
Stubb	1.00			4192.00	
Recorder	0.00	8522	Inside	4192.00	
Recorder	0.00	8319	Outside	4192.00	
Perforations	21.00			4213.00	
Bullnose	3.00			4216.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63678

**DST#: 3**

ATTN: Andrew Stenzel

Test Start: 2018.05.27 @ 13:10:00

## 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:

50000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
530.00	mcw 5m 95w (oil spots in tool)	5.777

Total Length: 530.00 ft      Total Volume: 5.777 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .121 @ 87F = 50,000ppm

Serial #: 8522

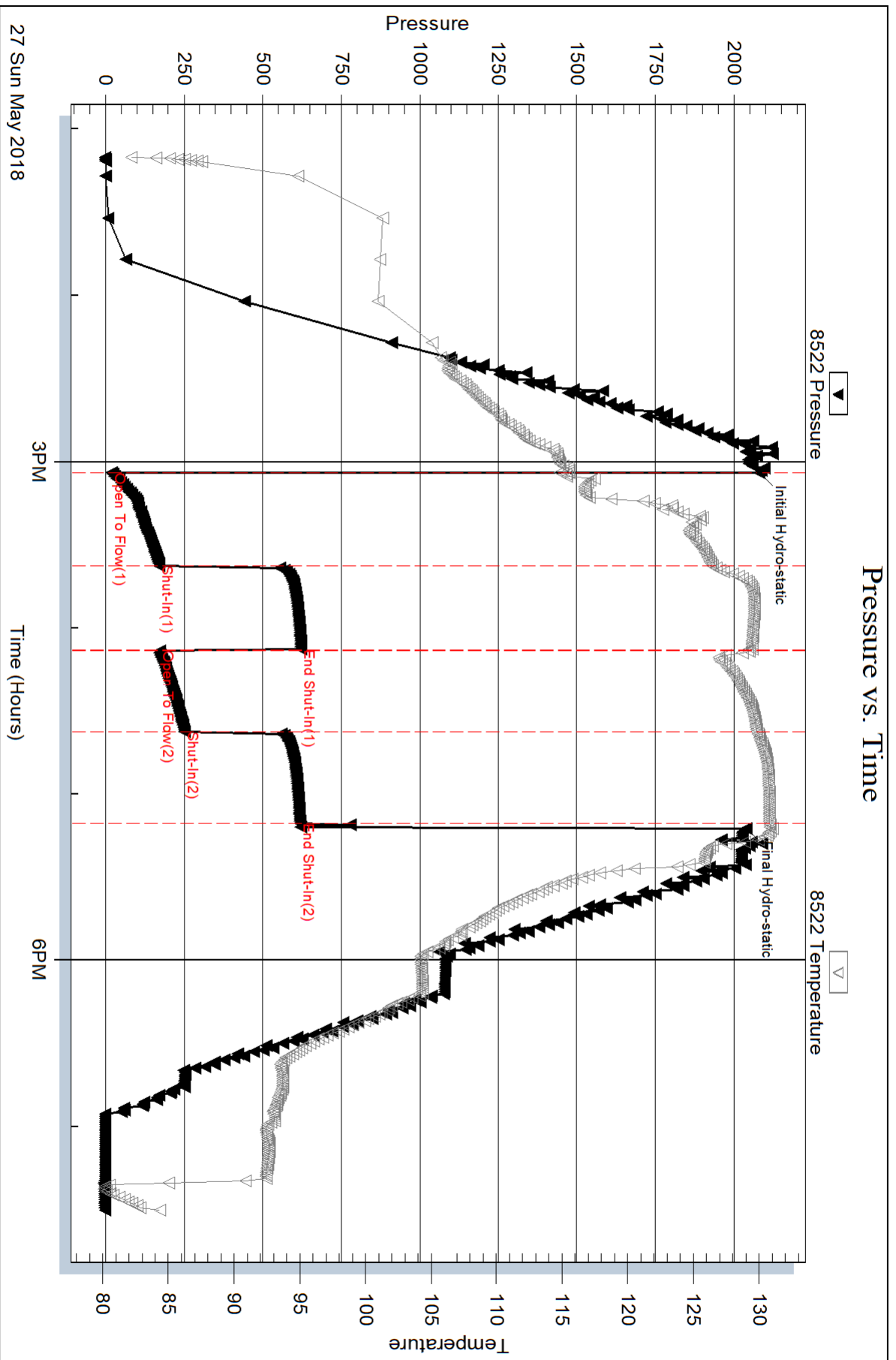
Inside

Joe Gerstner Oil, LLC

Kind #1

DST Test Number: 3

# Pressure vs. Time



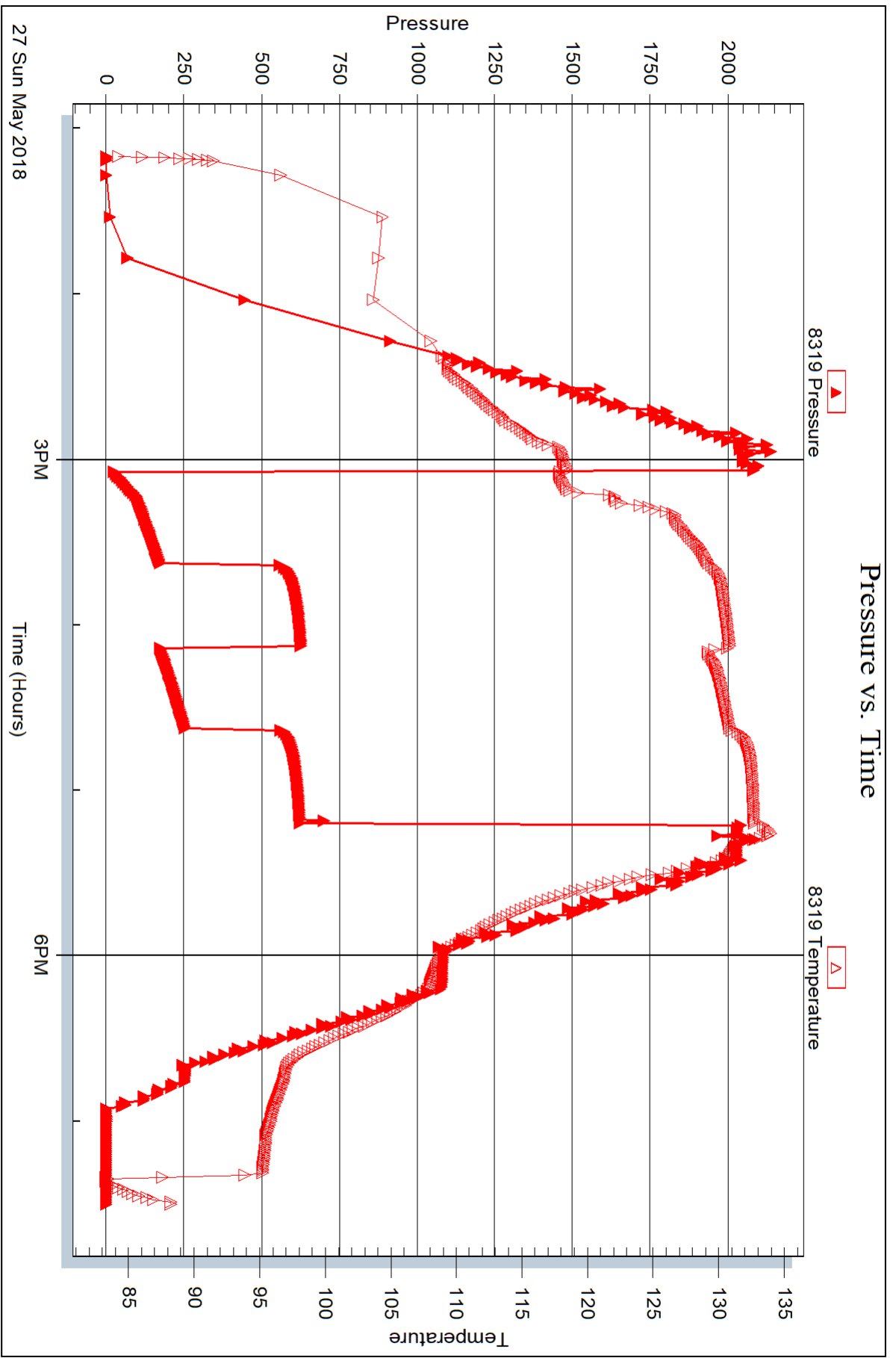


Serial #: 8319

Outside Joe Gerstner Oil, LLC

Kind #1

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Joe Gerstner Oil, LLC**

PO Box 509  
Ness City, KS 67560

ATTN: Andrew Stenzel

### **Kind #1**

### **9-18s-31w Scott,KS**

Start Date: 2018.05.28 @ 05:23:00

End Date: 2018.05.28 @ 11:46:15

Job Ticket #: 63679                      DST #: 4

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

Printed: 2018.06.01 @ 11:08:19

Joe Gerstner Oil, LLC  
9-18s-31w Scott,KS  
Kind #1  
DST # 4  
LKC K  
2018.05.28



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63679

**DST#: 4**

ATTN: Andrew Stenzel

Test Start: 2018.05.28 @ 05:23:00

## GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:50:00

Time Test Ended: 11:46:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4215.00 ft (KB) To 4261.00 ft (KB) (TVD)**

Reference Elevations: 2942.00 ft (KB)

Total Depth: 4215.00 ft (KB) (TVD)

2934.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8522**

**Inside**

Press@RunDepth: 32.02 psig @ 4216.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.28

End Date:

2018.05.28

Last Calib.:

2018.05.28

Start Time: 05:33:05

End Time:

11:56:14

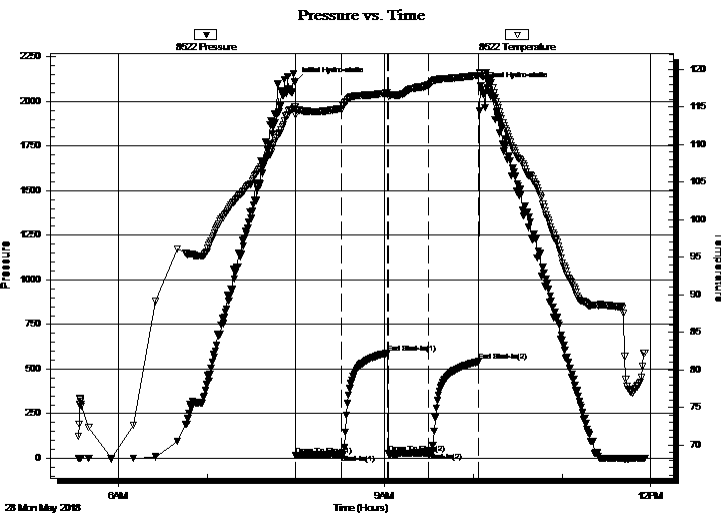
Time On Btm:

2018.05.28 @ 07:59:45

Time Off Btm:

2018.05.28 @ 10:05:00

**TEST COMMENT:** IF: 1" blow.  
IS: No return.  
FF: No blow.  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2111.66	115.01	Initial Hydro-static
1	17.41	113.94	Open To Flow (1)
31	24.50	114.80	Shut-In(1)
63	590.77	116.89	End Shut-In(1)
63	25.72	116.48	Open To Flow (2)
91	32.02	118.00	Shut-In(2)
124	542.08	119.23	End Shut-In(2)
126	2084.93	119.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100m	0.15

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC  
 PO Box 509  
 Ness City, KS 67560  
 ATTN: Andrew Stenzel

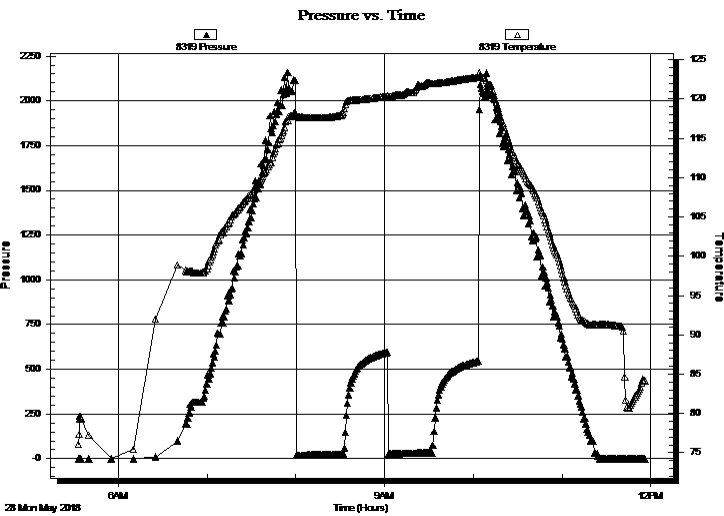
**9-18s-31w Scott, KS**  
**Kind #1**  
 Job Ticket: 63679 **DST#: 4**  
 Test Start: 2018.05.28 @ 05:23:00

### GENERAL INFORMATION:

Formation: **LKC K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:50:00  
 Time Test Ended: 11:46:15  
 Interval: **4215.00 ft (KB) To 4261.00 ft (KB) (TVD)**  
 Total Depth: 4215.00 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: 2942.00 ft (KB)  
 2934.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8319** **Outside**  
 Press@RunDepth: psig @ 4216.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.05.28 End Date: 2018.05.28 Last Calib.: 2018.05.28  
 Start Time: 05:33:05 End Time: 11:56:14 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF: 1" blow.  
 IS: No return.  
 FF: No blow.  
 FS: No return.



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100m	0.15

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63679

**DST#: 4**

ATTN: Andrew Stenzel

Test Start: 2018.05.28 @ 05:23:00

## Tool Information

Drill Pipe:	Length: 4016.00 ft	Diameter: 3.80 inches	Volume: 56.33 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4215.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4189.00	
Shut In Tool	5.00			4194.00	
Hydraulic tool	5.00			4199.00	
Jars	5.00			4204.00	
Safety Joint	2.00			4206.00	
Packer	5.00			4211.00	27.00 Bottom Of Top Packer
Packer	4.00			4215.00	
Stubb	1.00			4216.00	
Recorder	0.00	8522	Inside	4216.00	
Recorder	0.00	8319	Outside	4216.00	
Perforations	9.00			4225.00	
Change Over Sub	1.00			4226.00	
Drill Pipe	31.00			4257.00	
Change Over Sub	1.00			4258.00	
Bullnose	3.00			4261.00	46.00 Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63679

**DST#: 4**

ATTN: Andrew Stenzel

Test Start: 2018.05.28 @ 05:23:00

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud 100m	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8522

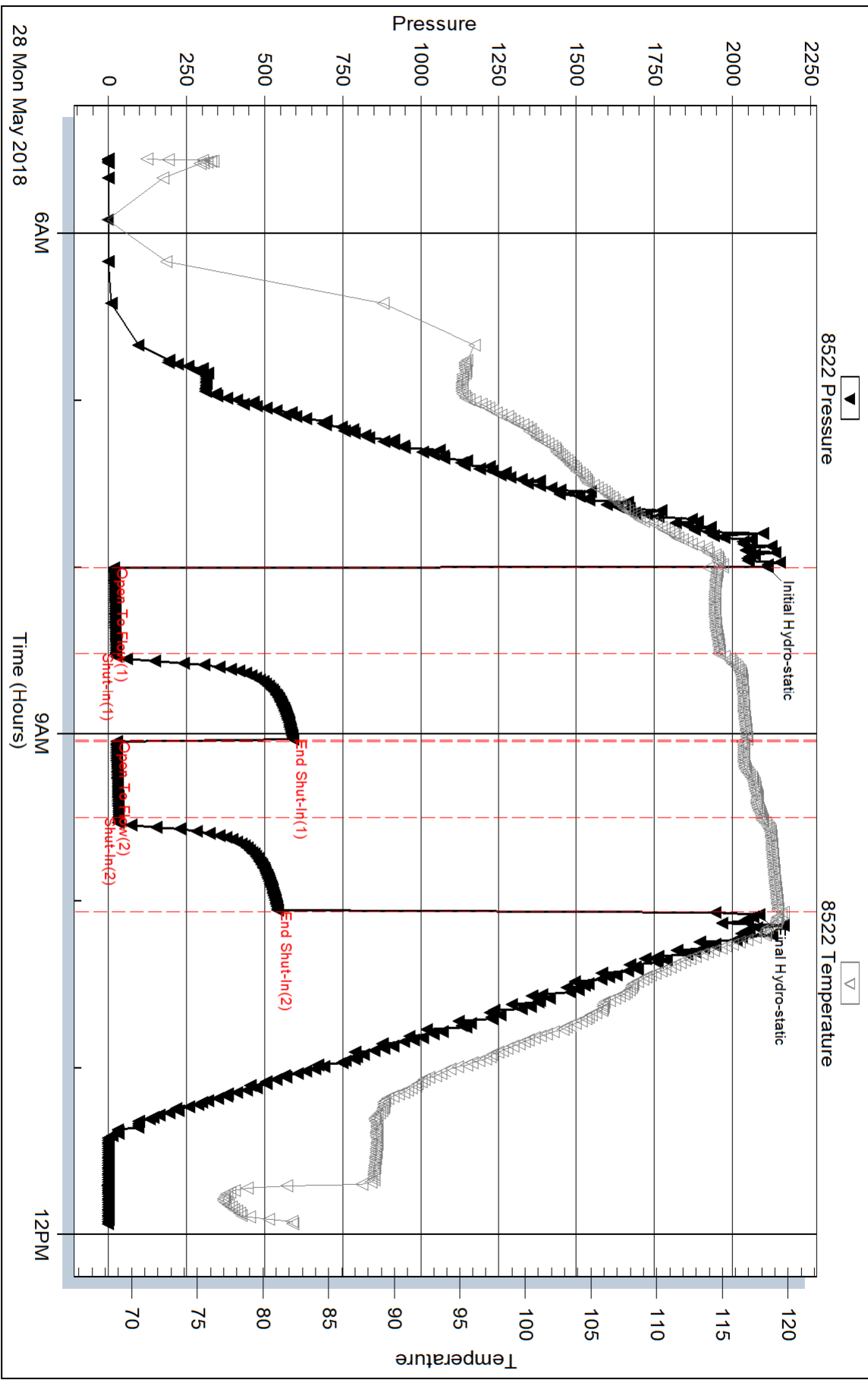
Inside

Joe Gerstner Oil, LLC

Kind #1

DST Test Number: 4

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63679

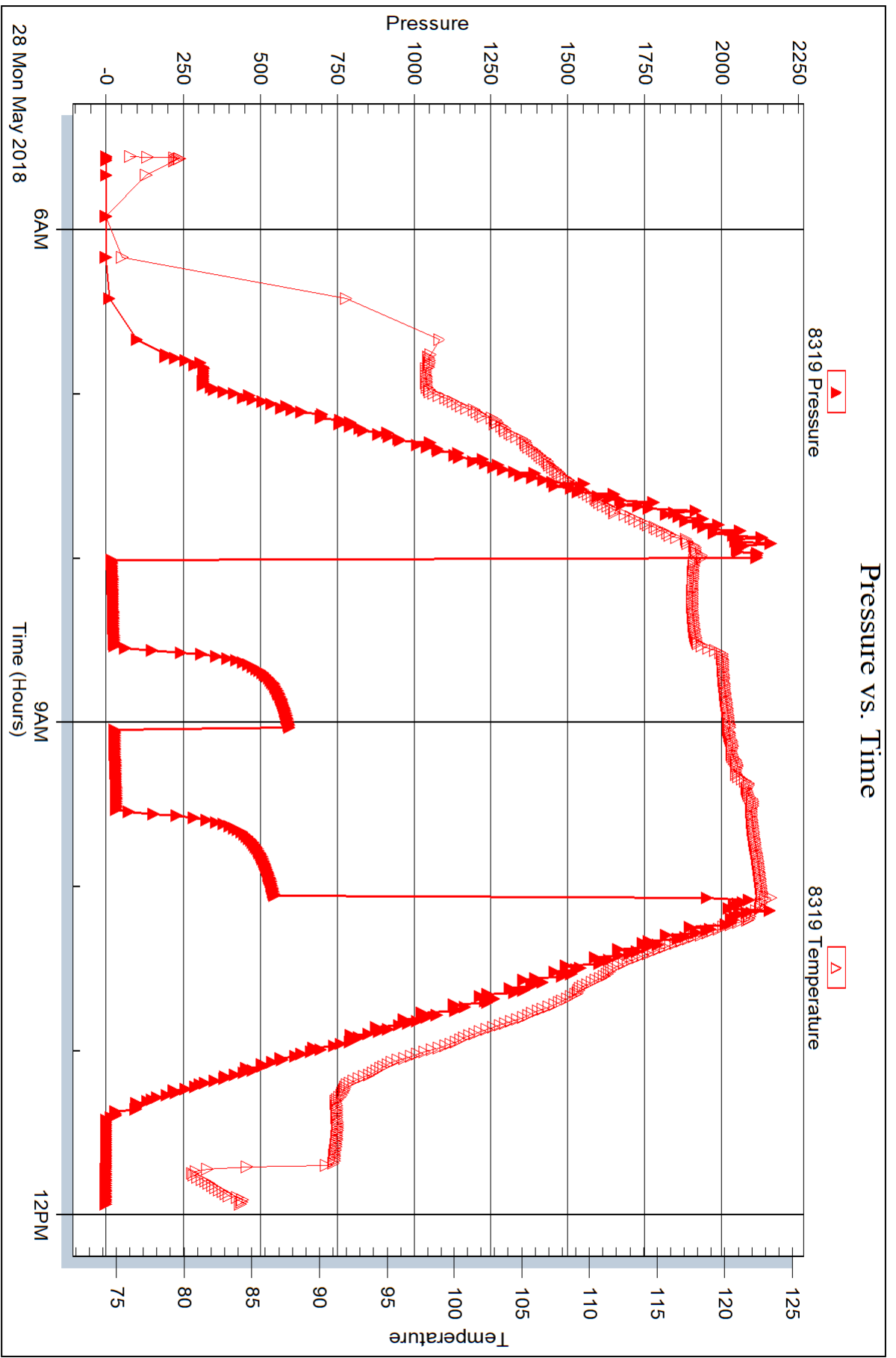
Printed: 2018.06.01 @ 11:08:20

Serial #: 8319

Outside Joe Gerstner Oil, LLC

Kind #1

DST Test Number: 4







## DRILL STEM TEST REPORT

Prepared For: **Joe Gerstner Oil, LLC**

PO Box 509  
Ness City, KS 67560

ATTN: Andrew Stenzel

### **Kind #1**

### **9-18s-31w Scott,KS**

Start Date: 2018.05.29 @ 10:55:00

End Date: 2018.05.29 @ 16:49:02

Job Ticket #: 63680                      DST #: 5

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

Printed: 2018.06.01 @ 11:07:53



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63680

**DST#: 5**

ATTN: Andrew Stenzel

Test Start: 2018.05.29 @ 10:55:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:50:18

Time Test Ended: 16:49:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4314.00 ft (KB) To 4420.00 ft (KB) (TVD)**

Reference Elevations: 2942.00 ft (KB)

Total Depth: 4420.00 ft (KB) (TVD)

2934.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8522**

**Inside**

Press@RunDepth: 25.91 psig @ 4315.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.29

End Date:

2018.05.29

Last Calib.:

2018.05.29

Start Time:

10:55:23

End Time:

16:49:02

Time On Btm:

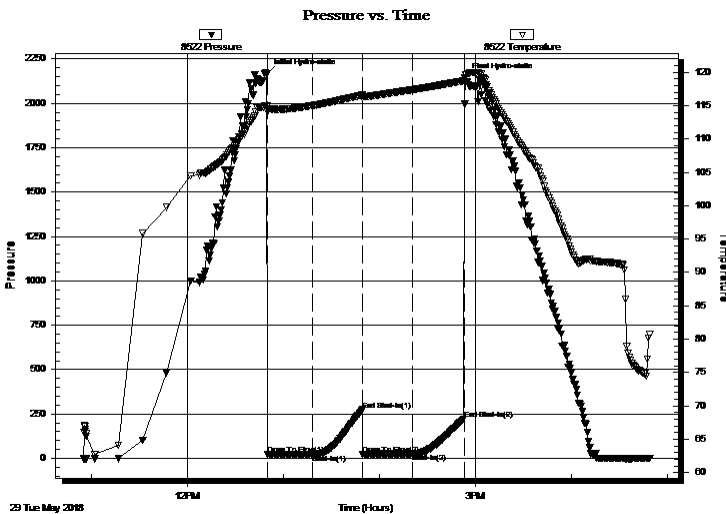
2018.05.29 @ 12:50:03

Time Off Btm:

2018.05.29 @ 14:54:03

**TEST COMMENT:** IF: 1" blow.  
IS: No return.  
FF: No blow.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2165.71	115.03	Initial Hydro-static
1	22.67	114.04	Open To Flow (1)
29	24.46	115.03	Shut-In(1)
60	274.29	116.59	End Shut-In(1)
60	22.67	116.26	Open To Flow (2)
91	25.91	117.39	Shut-In(2)
123	222.95	118.73	End Shut-In(2)
124	2143.29	119.58	Final Hydro-static

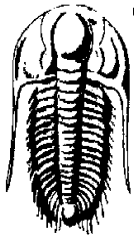
## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m	0.05

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63680

**DST#: 5**

ATTN: Andrew Stenzel

Test Start: 2018.05.29 @ 10:55:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:50:18

Time Test Ended: 16:49:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4314.00 ft (KB) To 4420.00 ft (KB) (TVD)**

Total Depth: 4420.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2942.00 ft (KB)

2934.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8319 Outside**

Press@RunDepth: psig @ 4315.00 ft (KB)

Start Date: 2018.05.29

End Date:

2018.05.29

Start Time: 10:54:42

End Time:

16:49:06

Capacity: 8000.00 psig

Last Calib.:

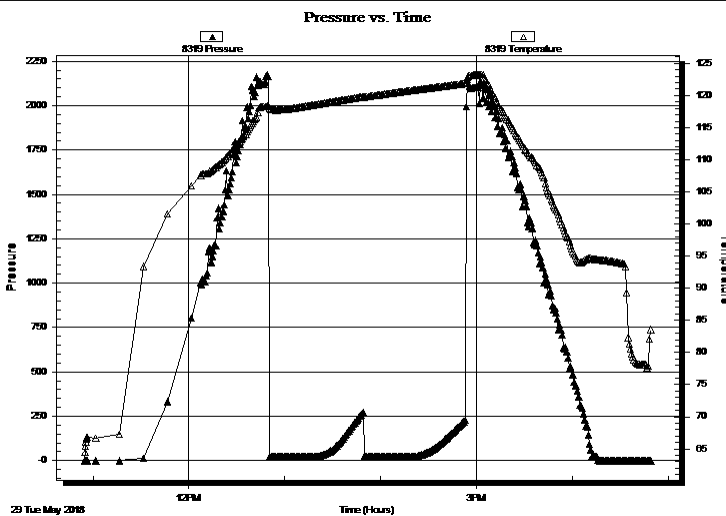
2018.05.29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1" blow.  
IS: No return.  
FF: No blow.  
FS: No return.

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m	0.05

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63680

**DST#: 5**

ATTN: Andrew Stenzel

Test Start: 2018.05.29 @ 10:55:00

## Tool Information

Drill Pipe:	Length: 4110.00 ft	Diameter: 3.80 inches	Volume: 57.65 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 58.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4314.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	106.00 ft			
Tool Length:	133.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4288.00	
Shut In Tool	5.00			4293.00	
Hydraulic tool	5.00			4298.00	
Jars	5.00			4303.00	
Safety Joint	2.00			4305.00	
Packer	5.00			4310.00	27.00 Bottom Of Top Packer
Packer	4.00			4314.00	
Stubb	1.00			4315.00	
Recorder	0.00	8522	Inside	4315.00	
Recorder	0.00	8319	Outside	4315.00	
Perforations	5.00			4320.00	
Change Over Sub	1.00			4321.00	
Drill Pipe	95.00			4416.00	
Change Over Sub	1.00			4417.00	
Bullnose	3.00			4420.00	106.00 Bottom Packers & Anchor

**Total Tool Length: 133.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63680

**DST#: 5**

ATTN: Andrew Stenzel

Test Start: 2018.05.29 @ 10:55:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100m	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

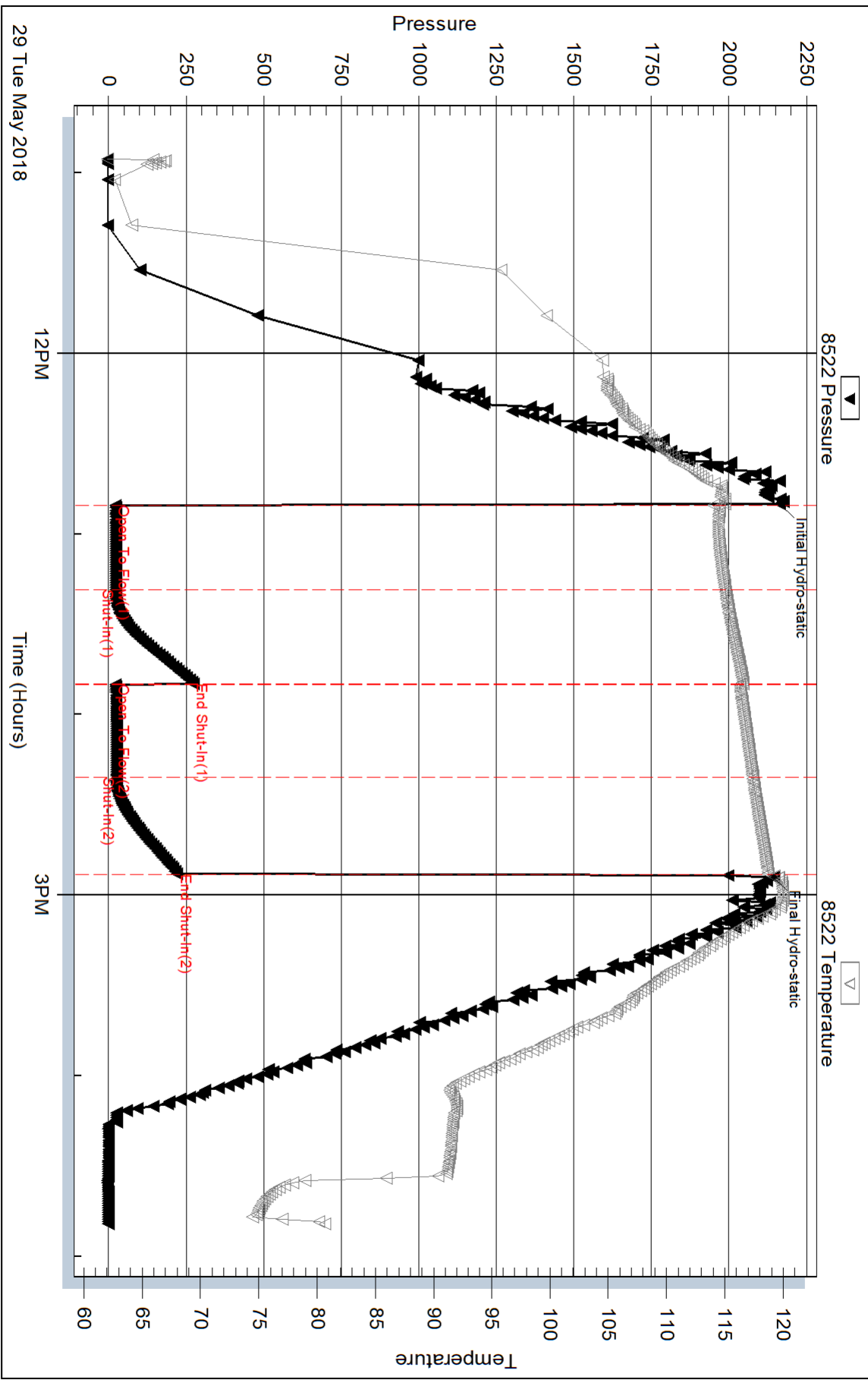
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time

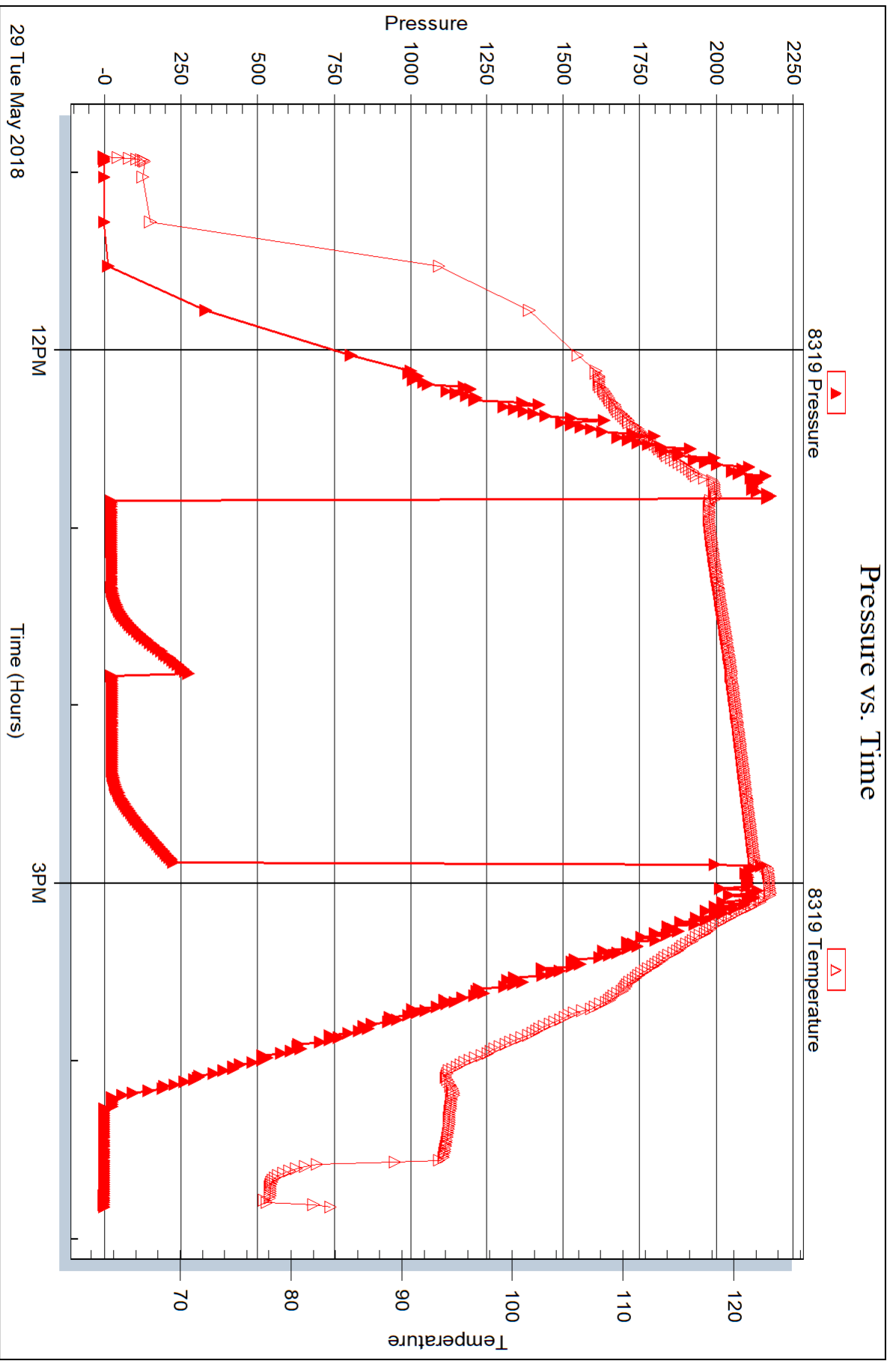


Serial #: 8319

Outside Joe Gerstner Oil, LLC

Kind #1

DST Test Number: 5





## DRILL STEM TEST REPORT

Prepared For: **Joe Gerstner Oil, LLC**

PO Box 509  
Ness City, KS 67560

ATTN: Andrew Stenzel

### **Kind #1**

#### **9-18s-31w Scott,KS**

Start Date: 2018.05.30 @ 02:21:00

End Date: 2018.05.30 @ 08:23:00

Job Ticket #: 63681                      DST #: 6

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

Printed: 2018.06.01 @ 11:07:27





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63681

**DST#: 6**

ATTN: Andrew Stenzel

Test Start: 2018.05.30 @ 02:21:00

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:30:00

Time Test Ended: 08:23:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4431.00 ft (KB) To 4460.00 ft (KB) (TVD)**

Reference Elevations: 2942.00 ft (KB)

Total Depth: 4460.00 ft (KB) (TVD)

2934.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8522**

**Inside**

Press@RunDepth: 18.68 psig @ 4432.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.30

End Date:

2018.05.30

Last Calib.:

2018.05.30

Start Time: 02:21:05

End Time:

08:22:59

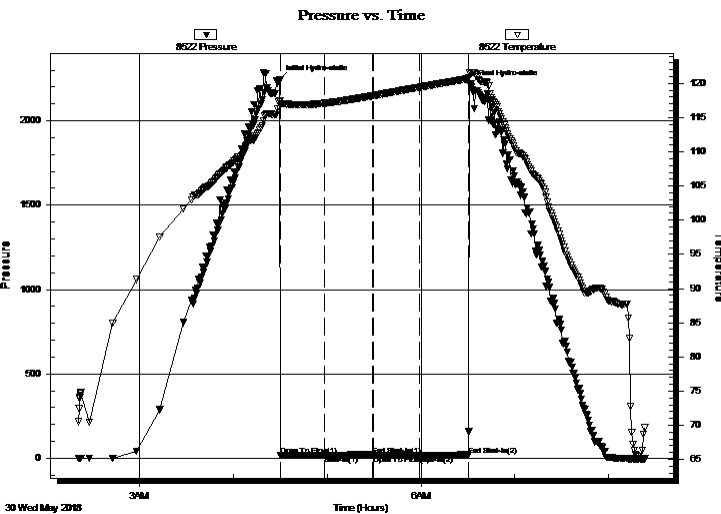
Time On Btm:

2018.05.30 @ 04:29:45

Time Off Btm:

2018.05.30 @ 06:31:30

TEST COMMENT: IF: 1/2" blow.  
IS: No return  
FF: No blow.  
FS: No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.39	117.52	Initial Hydro-static
1	18.01	116.80	Open To Flow (1)
29	18.80	117.10	Shut-In(1)
60	21.07	118.21	End Shut-In(1)
60	18.23	118.22	Open To Flow (2)
89	18.68	119.44	Shut-In(2)
121	19.68	120.69	End Shut-In(2)
122	2212.54	121.47	Final Hydro-static

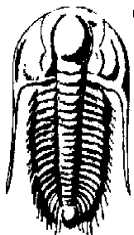
## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
3.00	Mud 100m	0.01

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

\* Recovery from multiple tests



**TRILOBITE**  
**TESTING, INC.**

**DRILL STEM TEST REPORT**

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63681

**DST#: 6**

ATTN: Andrew Stenzel

Test Start: 2018.05.30 @ 02:21:00

**GENERAL INFORMATION:**

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:30:00

Time Test Ended: 08:23:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4431.00 ft (KB) To 4460.00 ft (KB) (TVD)**

Total Depth: 4460.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2942.00 ft (KB)

2934.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8319 Outside**

Press@RunDepth: psig @ 4432.00 ft (KB)

Start Date: 2018.05.30

End Date:

2018.05.30

Start Time: 02:21:05

End Time:

08:22:59

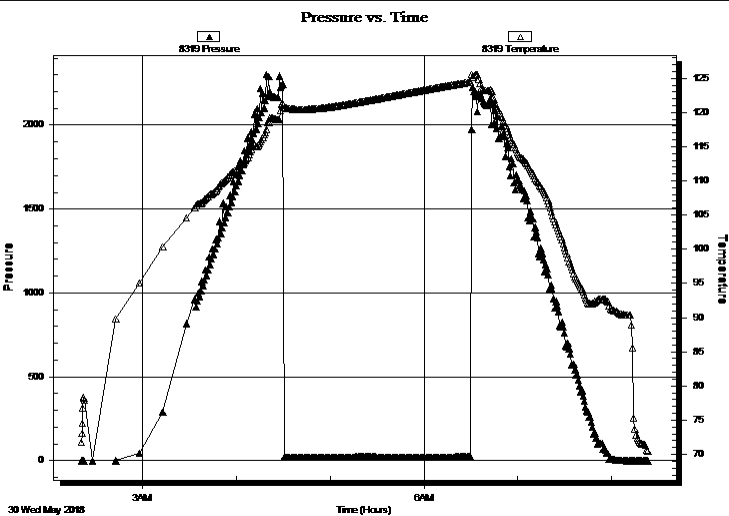
Capacity: 8000.00 psig

Last Calib.: 2018.05.30

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: 1/2" blow.  
IS: No return  
FF: No blow.  
FS: No return



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
3.00	Mud 100m	0.01

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63681

**DST#: 6**

ATTN: Andrew Stenzel

Test Start: 2018.05.30 @ 02:21:00

## Tool Information

Drill Pipe:	Length: 4237.00 ft	Diameter: 3.80 inches	Volume: 59.43 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4431.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4405.00	
Shut In Tool	5.00			4410.00	
Hydraulic tool	5.00			4415.00	
Jars	5.00			4420.00	
Safety Joint	2.00			4422.00	
Packer	5.00			4427.00	27.00 Bottom Of Top Packer
Packer	4.00			4431.00	
Stubb	1.00			4432.00	
Recorder	0.00	8522	Inside	4432.00	
Recorder	0.00	8319	Outside	4432.00	
Perforations	25.00			4457.00	
Bullnose	3.00			4460.00	29.00 Bottom Packers & Anchor

**Total Tool Length: 56.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63681

**DST#: 6**

ATTN: Andrew Stenzel

Test Start: 2018.05.30 @ 02:21:00

## 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud 100m	0.015

Total Length: 3.00 ft      Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8522

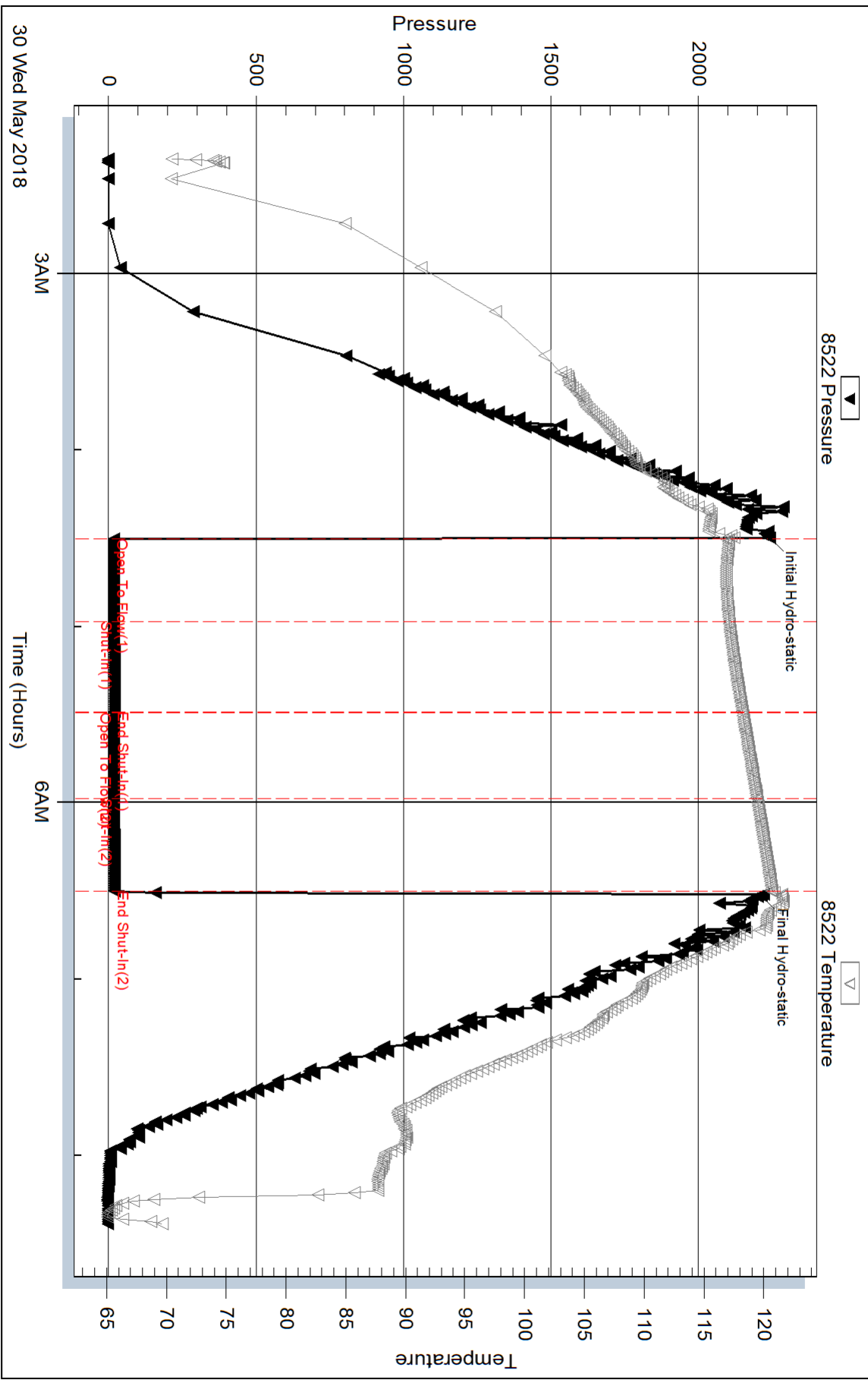
Inside

Joe Gerstner Oil, LLC

Kind #1

DST Test Number: 6

### Pressure vs. Time

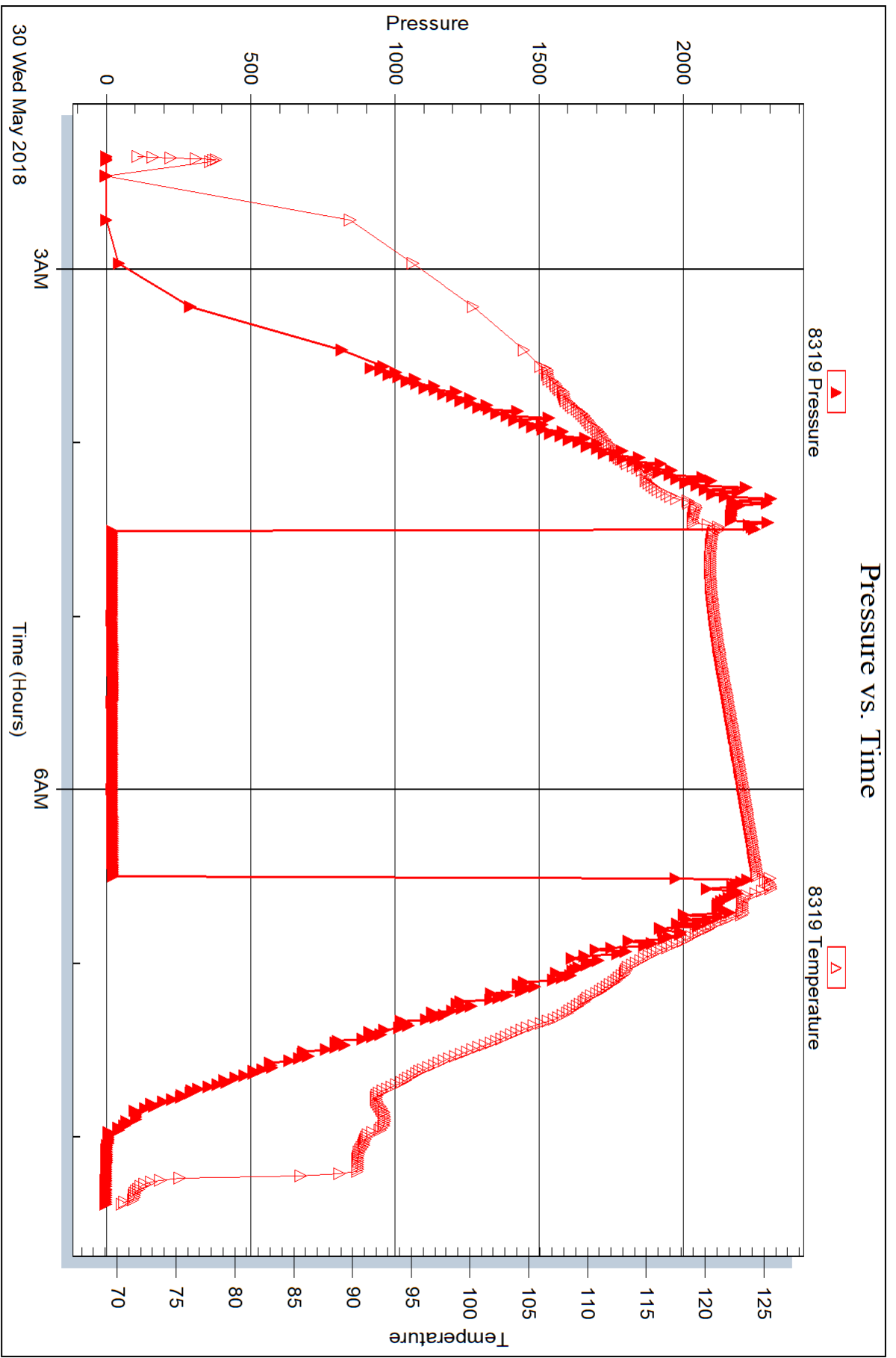


Serial #: 8319

Outside Joe Gerstner Oil, LLC

Kind #1

DST Test Number: 6





## DRILL STEM TEST REPORT

Prepared For: **Joe Gerstner Oil, LLC**

PO Box 509  
Ness City, KS 67560

ATTN: Andrew Stenzel

### **Kind #1**

### **9-18s-31w Scott,KS**

Start Date: 2018.05.31 @ 00:58:00

End Date: 2018.05.31 @ 08:11:45

Job Ticket #: 63682                      DST #: 7

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

Printed: 2018.06.01 @ 11:06:20



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC  
 PO Box 509  
 Ness City, KS 67560  
 ATTN: Andrew Stenzel

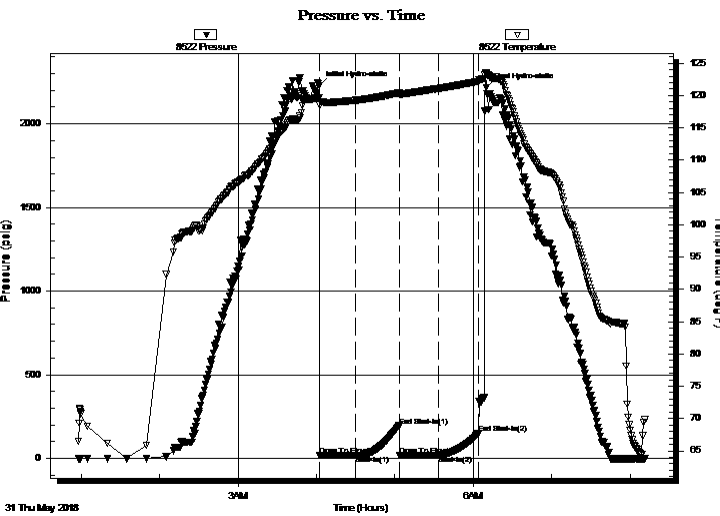
**9-18s-31w Scott,KS**  
**Kind #1**  
 Job Ticket: 63682 **DST#: 7**  
 Test Start: 2018.05.31 @ 00:58:00

## GENERAL INFORMATION:

Formation: **Ft. Scott - Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:02:45  
 Time Test Ended: 08:11:45  
 Interval: **4474.00 ft (KB) To 4584.00 ft (KB) (TVD)**  
 Total Depth: 4584.00 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: 2942.00 ft (KB)  
 2934.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8522 Inside**  
 Press@RunDepth: 20.14 psig @ 4475.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.05.31 End Date: 2018.05.31 Last Calib.: 2018.05.31  
 Start Time: 00:58:05 End Time: 08:11:44 Time On Btm: 2018.05.31 @ 04:02:30  
 Time Off Btm: 2018.05.31 @ 06:10:00

TEST COMMENT: IF: 1/2" blow.  
 IS: No return.  
 FF: No blow.  
 FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2228.32	119.72	Initial Hydro-static
1	17.48	118.50	Open To Flow (1)
28	18.99	119.26	Shut-In(1)
61	194.22	120.40	End Shut-In(1)
62	19.18	120.17	Open To Flow (2)
91	20.14	121.08	Shut-In(2)
122	148.04	122.19	End Shut-In(2)
128	2218.36	123.35	Final Hydro-static

## Recovery

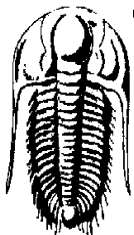
Length (ft)	Description	Volume (bbl)
15.00	Mud 100m	0.07

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63682

**DST#: 7**

ATTN: Andrew Stenzel

Test Start: 2018.05.31 @ 00:58:00

## GENERAL INFORMATION:

Formation: **Ft. Scott - Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:02:45

Time Test Ended: 08:11:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4474.00 ft (KB) To 4584.00 ft (KB) (TVD)**

Reference Elevations: 2942.00 ft (KB)

Total Depth: 4584.00 ft (KB) (TVD)

2934.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8319 Outside**

Press@RunDepth: psig @ 4475.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.31

End Date:

2018.05.31

Last Calib.:

2018.05.31

Start Time: 00:58:05

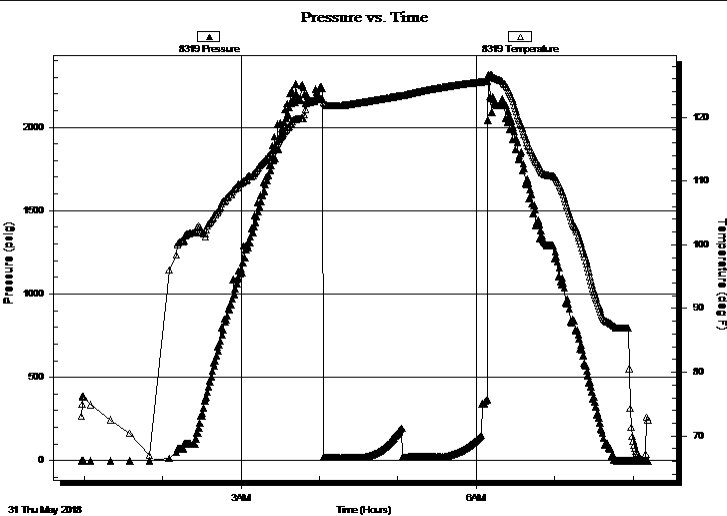
End Time:

08:11:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/2" blow.  
IS: No return.  
FF: No blow.  
FS: No return.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100m	0.07

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63682

**DST#: 7**

ATTN: Andrew Stenzel

Test Start: 2018.05.31 @ 00:58:00

## Tool Information

Drill Pipe:	Length: 4299.00 ft	Diameter: 3.80 inches	Volume: 60.30 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 61.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4474.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	110.00 ft			
Tool Length:	137.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4448.00	
Shut In Tool	5.00			4453.00	
Hydraulic tool	5.00			4458.00	
Jars	5.00			4463.00	
Safety Joint	2.00			4465.00	
Packer	5.00			4470.00	27.00 Bottom Of Top Packer
Packer	4.00			4474.00	
Stubb	1.00			4475.00	
Recorder	0.00	8522	Inside	4475.00	
Recorder	0.00	8319	Outside	4475.00	
Perforations	10.00			4485.00	
Change Over Sub	1.00			4486.00	
Drill Pipe	94.00			4580.00	
Change Over Sub	1.00			4581.00	
Bullnose	3.00			4584.00	110.00 Bottom Packers & Anchor

**Total Tool Length: 137.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Joe Gerstner Oil, LLC

**9-18s-31w Scott,KS**

PO Box 509  
Ness City, KS 67560

**Kind #1**

Job Ticket: 63682

**DST#: 7**

ATTN: Andrew Stenzel

Test Start: 2018.05.31 @ 00:58:00

## 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100m	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

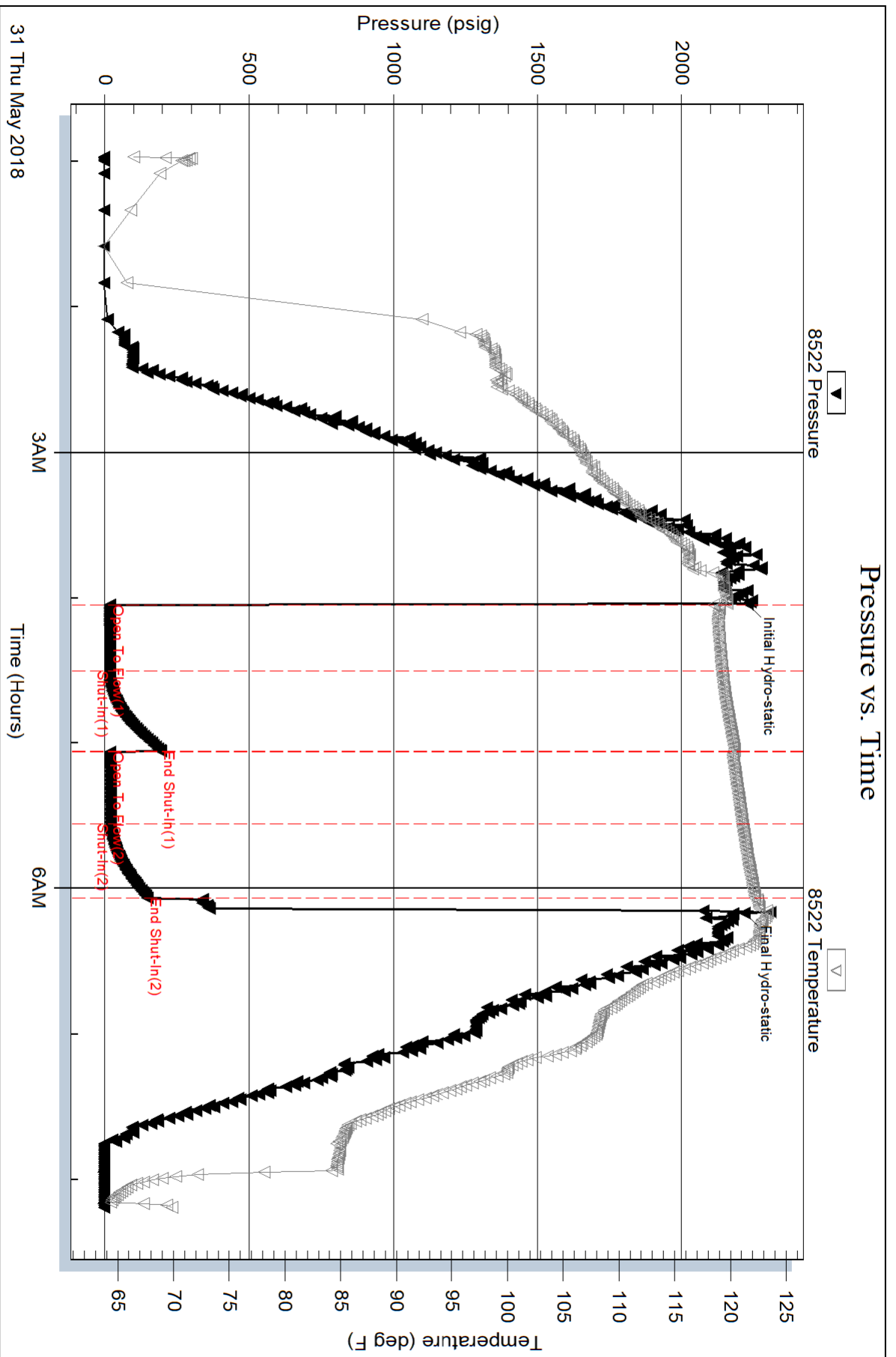
Serial #: 8522

Inside

Joe Gerstner Oil, LLC

Kind #1

DST Test Number: 7

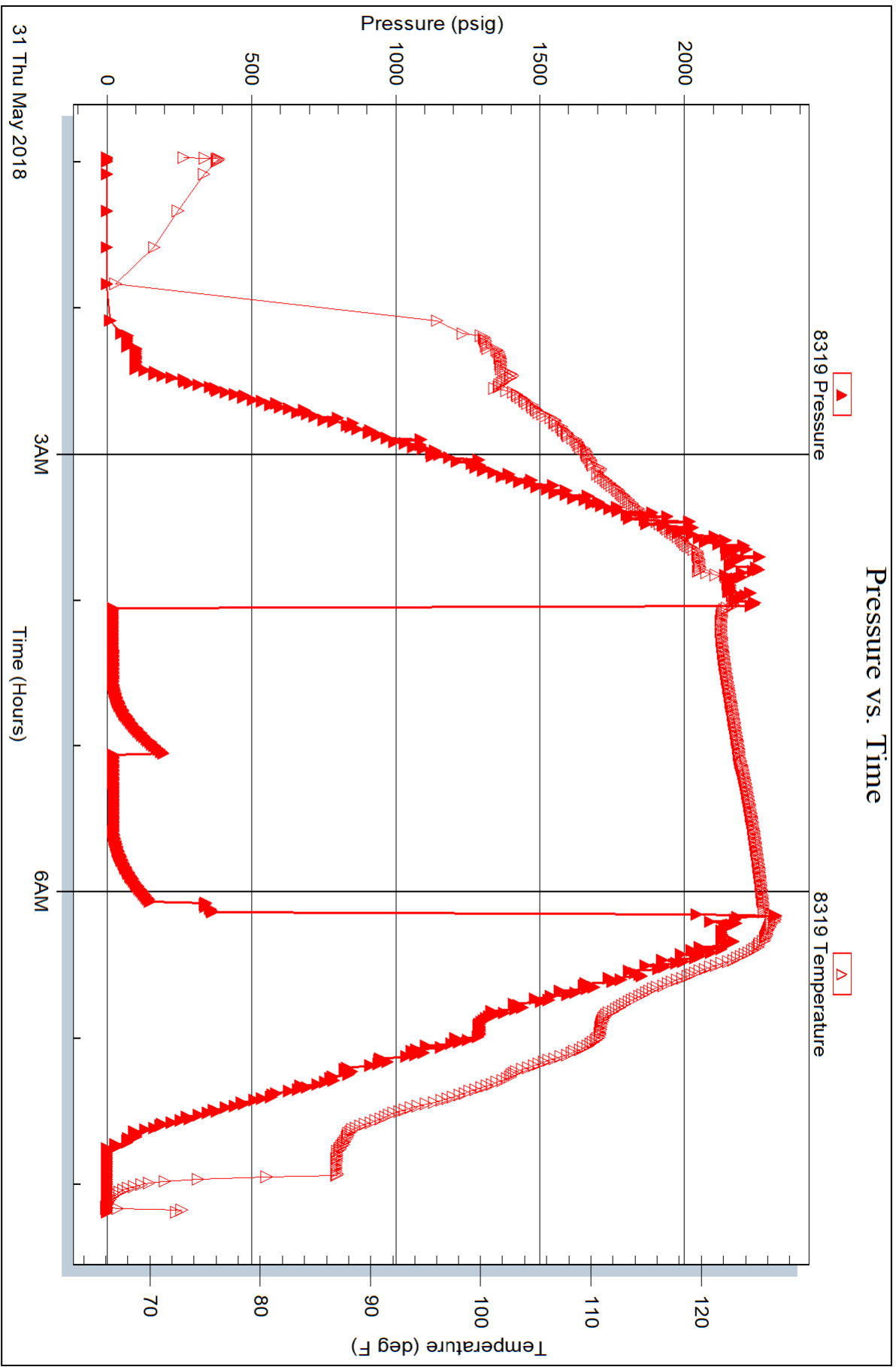


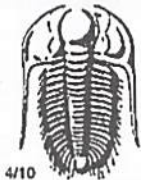
Serial #: 8319

Outside Joe Gerstner Oil, LLC

Kind #1

DST Test Number: 7





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63675

Well Name & No. Kind #1 Test No. 1 Date 5/26/2018  
 Company Joe Berstner Oil, LLC Elevation 2942 KB 2934 GL  
 Address PO Box 509 Ness City Ks 67560  
 Co. Rep / Geo. Andrew Stenzel Rig WW #12  
 Location: Sec. 9 Twp 18s Rge. 31w Co. Scott State Ks

Interval Tested 4042-4058 Zone Tested LKC E  
 Anchor Length 16' Drill Pipe Run 3858 Mud Wt. 9.2  
 Top Packer Depth 4037 Drill Collars Run 182 Vis 51  
 Bottom Packer Depth 4042 Wt. Pipe Run Ø WL 8.0  
 Total Depth 4058 Chlorides 1900 ppm System LCM 1.5 #

Blow Description Tool hit bridge 27 stands from bottom. came out of hole

Rec	Feet of	%gas	%oil	%water	%mud
	<u>Mis-Run</u>				

Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic \_\_\_\_\_  
 (B) First Initial Flow MIS-RUN  
 (C) First Final Flow \_\_\_\_\_  
 (D) Initial Shut-In \_\_\_\_\_  
 (E) Second Initial Flow \_\_\_\_\_  
 (F) Second Final Flow \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_

Test 950  
 Jars 250  
 Safety Joint 75  
 Circ Sub N/C  
 Hourly Standby \_\_\_\_\_  
 Mileage 23 Rt 23  
 Sampler \_\_\_\_\_  
 Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1298

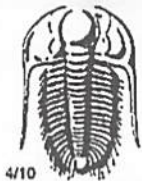
T-On Location 0045  
 T-Started 0159  
 T-Open \_\_\_\_\_  
 T-Pulled 0400  
 T-Out 0516  
 Comments \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total \_\_\_\_\_  
 Total \_\_\_\_\_  
 MP/DST Disc't \_\_\_\_\_

Initial Open \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  
 Final Flow \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63677**

Well Name & No. Kind # 1 Test No. 2 Date 5/26/2018  
 Company Joe Gerstner Oil, LLC Elevation 2947 KB 2934 GL  
 Address PO Box 509 Ness City, KS 67560  
 Co. Rep / Geo. Andrew Stenzel Rig WW 12  
 Location: Sec. 9 Twp 18s Rge. 31w Co. Scott State Ks

Interval Tested 4042 - 4058 Zone Tested LKC E  
 Anchor Length 16' Drill Pipe Run 3858 Mud Wt. 9.2  
 Top Packer Depth 4037 Drill Collars Run 182 Vis 51  
 Bottom Packer Depth 4042 Wt. Pipe Run Ø WL 8.0  
 Total Depth 4058 Chlorides 1900 ppm System LCM 1.5#

Blow Description IF 1 Surface blow.  
ISI: No return.  
PF: No blow  
FST: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>MOD</u>			<u>100</u>	
	<u>oil spots</u>				

Rec Total 10 BHT 115 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1991</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0930</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1009</u>
(C) First Final Flow <u>18</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1234</u>
(D) Initial Shut-In <u>850</u>	<input checked="" type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>1434</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>1705</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>23 RT</u> <u>23</u>	Comments <u>—</u>
(G) Final Shut-In <u>749</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>1989</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>—</u>	<input checked="" type="checkbox"/> Ruined Packer <u>320</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Sub Total <u>320</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby <u>—</u>	Total <u>1818</u>
	<input type="checkbox"/> Accessibility <u>—</u>	MP/DST Disc't <u>—</u>
	Sub Total <u>1498</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63678**

Well Name & No. Kind #1 Test No. 3 Date 5/27/2018  
 Company Joe Gerstner Oil, LLC Elevation 2947 KB 2934 GL  
 Address PO Box 509 Ness City, Ks 67560  
 Co. Rep / Geo. Andrew Stenzel Rig WW 12  
 Location: Sec. 9 Twp 18s Rge. 31w Co. Scott State Ks

Interval Tested 4191 4216 Zone Tested LKC J  
 Anchor Length 25 Drill Pipe Run 7016 Mud Wt. 9.2  
 Top Packer Depth 4186 Drill Collars Run 187 Vis 57  
 Bottom Packer Depth 4191 Wt. Pipe Run 0 WL 8.8  
 Total Depth 4216 Chlorides 3300 ppm System LCM 1.5#

Blow Description IF BOB @ 12 min built to 23"  
ISI No return.  
FF BOB @ 15 min. built to 18"  
ISI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>530</u>	<u>MCW</u>			<u>95%</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 530 BHT 131 Gravity — API RW 121 @ 87° F Chlorides 50,000 ppm  
 (A) Initial Hydrostatic 2080  Test 1150 T-On Location 1250  
 (B) First Initial Flow 20  Jars 250 T-Started 1320  
 (C) First Final Flow 171  Safety Joint 75 T-Open 1534  
 (D) Initial Shut-In 622  Circ Sub \_\_\_\_\_ T-Pulled 1734  
 (E) Second Initial Flow 173  Hourly Standby \_\_\_\_\_ T-Out 1931  
 (F) Second Final Flow 251  Mileage 23 Comments \_\_\_\_\_  
 (G) Final Shut-In 419  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2039  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 0  
 Total 1498  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1498

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63679

Well Name & No. Kind #1 Test No. 4 Date 5/29/2018  
 Company Joe Gerstner Oil LLC Elevation 2947 KB 2934 GL  
 Address PO Box 509 Ness City, KS 67560  
 Co. Rep / Geo. Andrew Stenzel Rig WW12  
 Location: Sec. 9 Twp 18s Rge. 3W Co. Scott State KS

Interval Tested 4215-4261 Zone Tested LKC K  
 Anchor Length 46 Drill Pipe Run 4016 Mud Wt. 9.3  
 Top Packer Depth 4210 Drill Collars Run ~~187~~ Vis 52  
 Bottom Packer Depth 4215 Wt. Pipe Run 0 WL 9.8  
 Total Depth 4261 Chlorides 3300 ppm System LCM 1#

Blow Description IF 1" blow  
ISF No return  
FF No blow  
FST No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mon</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

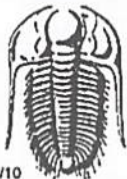
Rec Total 30 BHT 115 Gravity — API RW @ °F Chlorides — ppm

(A) Initial Hydrostatic <u>2112</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0500</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0523</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0755</u>
(D) Initial Shut-In <u>591</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>0955</u>
(E) Second Initial Flow <u>26</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1200</u>
(F) Second Final Flow <u>32</u>	<input checked="" type="checkbox"/> Mileage <u>23 RT</u> <u>23</u>	Comments
(G) Final Shut-In <u>542</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2085</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1498</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1498</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63680

Well Name & No. Kind #1 Test No. 5 Date 5/29/2018  
 Company Joe Berstner Oil, LLC Elevation 2947 KB 2934 GL  
 Address PO Box 509 Moss City, Ks 67560  
 Co. Rep / Geo. Andrew Stenzel Rig WW12  
 Location: Sec. 9 Twp 18S Rge. 3W Co. Scott State Ks

Interval Tested 4314 - 4420 Zone Tested Marmaton  
 Anchor Length 166 Drill Pipe Run 4110 Mud Wt. 9.5  
 Top Packer Depth 4309 Drill Collars Run 183 Vis 5.3  
 Bottom Packer Depth 4314 Wt. Pipe Run 0 WL 9.6  
 Total Depth 4420 Chlorides 3500 ppm System LCM 1#

Blow Description IF 1" blow  
TSI No return.  
EF No blow  
FST No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 119 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2166</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1045</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1110</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1248</u>
(D) Initial Shut-In <u>274 23</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1448</u>
(E) Second Initial Flow <u>23 26</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1649</u>
(F) Second Final Flow <u>26 27</u>	<input checked="" type="checkbox"/> Mileage <u>23 RT 23</u>	Comments
(G) Final Shut-In <u>223</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2143</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Ruined Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total 1498

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1498  
 MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63681

Well Name & No. Kind #1 Test No. 6 Date 5/30/2018  
 Company Joe Gerstner Oil, LLC Elevation 2947 KB 2934 GL  
 Address 90 Box 509 Ness City KS 67560  
 Co. Rep / Geo. Andrew Stenzel Rig WW 12  
 Location: Sec. 9 Twp 18S Rge. 31W Co. Scott State KS

Interval Tested 4431 - 4460 Zone Tested Pawnee  
 Anchor Length 29' Drill Pipe Run 4237 Mud Wt. 9.3  
 Top Packer Depth 4426 Drill Collars Run 183 Vis 60  
 Bottom Packer Depth 4431 Wt. Pipe Run 0 WL 9.6  
 Total Depth 4460 Chlorides 3500 ppm System LCM 3#

Blow Description IF 1/2" blow  
FSI No return  
FF No blow  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>MOO</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3 BHT 120 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>22 41</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0200</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0221</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0430</u>
(D) Initial Shut-In <u>21</u>	<input checked="" type="checkbox"/> Circ Sub <u>1/2</u>	T-Pulled <u>0630</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0823</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>25 RT</u> <u>23</u>	Comments
(G) Final Shut-In <u>20</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>22 13</u>	<input type="checkbox"/> Straddle	

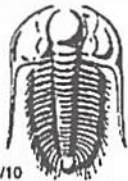
Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Sub Total 1498

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1498  
 MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63682

Well Name & No. Kind #1 Test No. 17 Date 5/31/2018  
 Company Joe Gestner Oil, LLC Elevation 2947 KB 2934 GL  
 Address PO Box 509 Ness City, KS 67560  
 Co. Rep / Geo. Andrew Stenzel Rig NW 12  
 Location: Sec. 9 Twp 18S Rge. 31W Co. Scott State KS

Interval Tested 4474 - 4584 Zone Tested FT Scott - Johnson  
 Anchor Length 110 Drill Pipe Run 4299 Mud Wt. 9.3  
 Top Packer Depth 4469 Drill Collars Run 183 Vis 53  
 Bottom Packer Depth 4474 Wt. Pipe Run 0 WL 9.2  
 Total Depth 4584 Chlorides 3400 ppm System LCM 2#

Blow Description IF 1/2" blow  
ISI No return  
FF No blow  
FSI No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>MOD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 122 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2228</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0045</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0120</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0404</u>
(D) Initial Shut-In <u>194</u>	<input checked="" type="checkbox"/> Circ Sub <u>H/C</u>	T-Pulled <u>0604</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0812</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>2324 x2</u>	Comments <u>8/10 Tool 5/31</u>
(G) Final Shut-In <u>148</u>	<input type="checkbox"/> Sampler	<u>0800</u>
(H) Final Hydrostatic <u>2218</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1498</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1498</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]

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**SWIFT Services, Inc.**

TICKET 031458

CHARGE TO: Joe Gerstner D-1  
 ADDRESS  
 CITY, STATE, ZIP CODE

PAGE 1 OF 1

SERVICE LOCATIONS <u>Missouri</u> <u>KS</u>	WELL/PROJECT NO. <u>1</u>	LEASE <u>Kind</u>	COUNTY/PARISH <u>Scott</u>	STATE <u>KS</u>	CITY <u>Empire</u>	DATE <u>21 MAY 18</u>	OWNER
TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED <u>VE</u>	DELIVERED TO <u>location</u>	WELL PERMIT NO.	ORDER NO.	
WELL TYPE <u>61</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>current surface pipe</u>	WELL LOCATION <u>8-16-31</u>				
REFERRAL LOCATION INVOICE INSTRUCTIONS							

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY. U/M			UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.		
615					MILEAGE	50	mi		5.00	250.00
576.5					RR 1/4	1	ac		875.00	875.00
325					Pumpjack	240	sq		13.00	3120.00
279					Standard cement	5	sq		30.00	150.00
278					Benhar's gel	11	gal		42.00	440.00
290					Calcium chloride	1	gal		42.00	42.00
581					D-air	240	sq		1.75	420.00
583					Service charge	2360	lb		0.85	509.70
					Drayage					

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

**X**

DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  A.M.  P.M.

**REMIT PAYMENT TO:**  
**SWIFT SERVICES, INC.**  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

**SURVEY**

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDECIDED	DISAGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 5798.71

TOTAL 6117.63

SWIFT OPERATOR B. Ball APPROVAL

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!



