



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1219466
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1219466

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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Goetz B 3
Doc ID	1219466

Tops

Name	Top	Datum
Stone Corral Anhydrite	1181	+826
Anhydrite (Base)	1223	+784
Topeka	2981	-974
Heebner	3229	-1222
Toronto	3248	-1241
Lansing/KS City A	3276	-1269
LKC B	3296	-1289
LKC C	3320	-1313
LKC H	3406	-1399
LKC I	3431	-1424
LKC J	3447	-1440
KS City (base)	3504	-1497
Arbuckle	3517	-1510
RTD	3632	
LTD	3633	

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Goetz B 3
Doc ID	1219466

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3298 - 3304 LKC B	1000 gals 15% NEFE	3298 - 3304
4	3317 - 3324 LKC C	500 gals 15% NEFE	3317 - 3324
	Pkr. set over LKC G, J & Arb.	Lockset Packer set @ 3360	3360
4	3368 - 3372 LKC G	1000 gals 15% NEFE	3368 - 3372
4	3452 - 3455 LKC J	1000 gals 15% NEFE	3452 - 3455
4	3520 - 3534 Arbuckle	1000 gals 15% NEFE	3520 - 3534

ALLIED OIL & GAS SERVICES, LLC

05357

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Russell KS

6067

DATE 6-4-14	SEC. 10	TWP. 14	RANGE 17	CALLED OUT	ON LOCATION 10:30 PM	JOB START 3:00 AM	JOB FINISH 3:30 AM
LEASE Goetz B	WELL# 3	LOCATION Victoria KS-I-70 5th church			COUNTY Ellis	STATE KS	
OLD OR <u>NEW</u> (Circle one)				2 1/2 W Sinto			

CONTRACTOR American Eagle #3
 TYPE OF JOB surface
 HOLE SIZE 12 1/4 T.D. 265
 CASING SIZE 8 7/8 20" DEPTH 265
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 15
 CEMENT LEFT IN CSG. 15
 PERFS.
 DISPLACEMENT 16 7/4 bbl

OWNER
 CEMENT
 AMOUNT ORDERED 175 com 370cc 29 gal
 COMMON 175 @ 17.90 3132.50
 POZMIX @
 GEL 330 # @ 0.24 79.20
 CHLORIDE 495 # @ 0.80 396.00
 ASC @
 Material @ 3602.90
 Misc @ 1010.15
 HANDLING 175 sks @ 2.49 434.00
 MILEAGE 82.5 @ 2.60 214.50
 TOTAL 4256.20

EQUIPMENT

PUMP TRUCK CEMENTER Robert Y
 # 409 HELPER Nathan D
 BULK TRUCK
 # 410 DRIVER Tracy J
 BULK TRUCK
 # DRIVER

REMARKS:

see log
cement did circulate to surface
Thank you!!!

CHARGE TO: Berexco
 STREET
 CITY STATE ZIP

SERVICE

DEPTH OF JOB 265
 PUMP TRUCK CHARGE 1512.25
 EXTRA FOOTAGE @
 MILEAGE 20 HVAI @ 7.70 154.00
 MANIFOLD 30 LV @ N/C
 TOTAL 2314.75
Misc 648.13 TOTAL 1666.62

PLUG & FLOAT EQUIPMENT

@
 @
 @
 @
 @
 TOTAL

SALES TAX (if Any)
 TOTAL CHARGES 5922.45
 DISCOUNT 1658.28 28% IF PAID IN 30 DAYS
 net 4264.17

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

PRINTED NAME Derby Reever
 SIGNATURE Derby Reever



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC.
2020 N. Bramblewood
Wichita KS 67206
ATTN: Steve Reed

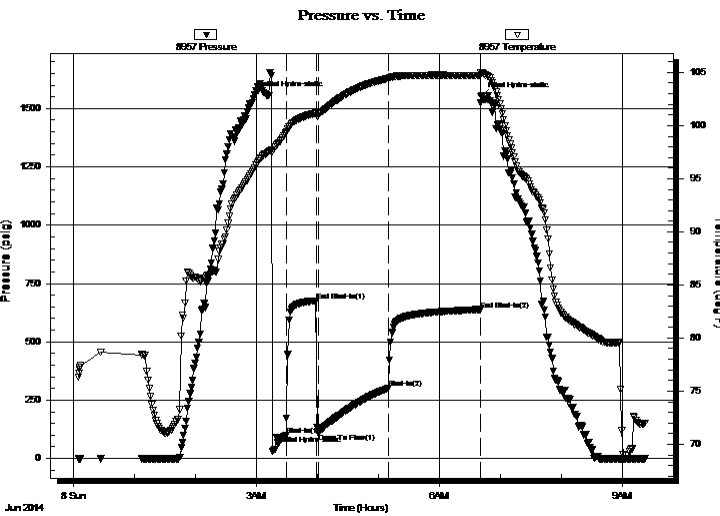
10-14-17, Ellis, KS
Goetz #B3
Job Ticket: 58969 **DST#: 1**
Test Start: 2014.06.08 @ 00:05:00

GENERAL INFORMATION:

Formation: **KC"B-C"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 04:00:45 Tester: Brett Dickinson
Time Test Ended: 09:22:30 Unit No: 59
Interval: 3284.00 ft (KB) To 3330.00 ft (KB) (TVD) Reference Elevations: 2007.00 ft (KB)
Total Depth: 3330.00 ft (KB) (TVD) 2000.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8957 Outside
Press @ Run Depth: 299.84 psig @ 3293.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.06.08 End Date: 2014.06.08 Last Calib.: 2014.06.08
Start Time: 00:05:05 End Time: 09:22:30 Time On Btm: 2014.06.08 @ 02:58:30
Time Off Btm: 2014.06.08 @ 06:41:15

TEST COMMENT: IF-BOB in 5min
ISI-3/4in blow died to 1/4in
FF-BOB in 2 1/2min
FSI-BOB in 32min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1556.94	96.05	Initial Hydro-static
18	29.38	97.51	Initial Hydro-static
31	98.89	99.33	Shut-In(1)
61	676.09	101.19	End Shut-In(1)
63	110.11	101.12	Open To Flow (1)
132	299.84	104.44	Shut-In(2)
222	638.20	104.73	End Shut-In(2)
223	1551.86	105.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	V SOMCW 5%O 80%W 15%M	2.52
120.00	G SWCO 30%G 55%O 15%W	1.68
440.00	GO 35%G 65%O	6.17
15.00	V SOCM 5%O 95%M	0.21
0.00	1900ft GIP	0.00

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: Steve Reed

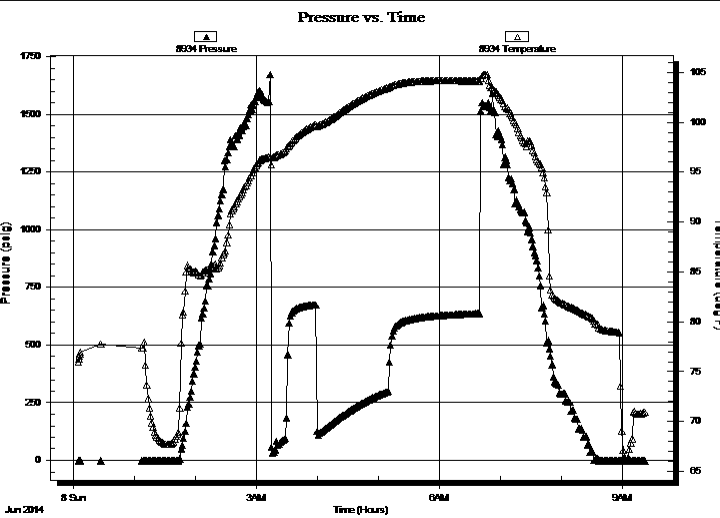
10-14-17, Ellis, KS
Goetz #B3
 Job Ticket: 58969 **DST#: 1**
 Test Start: 2014.06.08 @ 00:05:00

GENERAL INFORMATION:

Formation: **KC"B-C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:00:45
 Time Test Ended: 09:22:30
 Interval: **3284.00 ft (KB) To 3330.00 ft (KB) (TVD)**
 Total Depth: 3330.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2007.00 ft (KB)
 2000.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8934 Inside
 Press@RunDepth: psig @ 3293.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.08 End Date: 2014.06.08 Last Calib.: 2014.06.08
 Start Time: 00:05:05 End Time: 09:22:15 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-BOB in 5min
 ISI-3/4in blow died to 1/4in
 FF-BOB in 2 1/2min
 FSI-BOB in 32min



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

Recovery		
Length (ft)	Description	Volume (bbl)
180.00	V SOMCW 5%O 80%W 15%M	2.52
120.00	G SWCO 30%G 55%O 15%W	1.68
440.00	GO 35%G 65%O	6.17
15.00	V SOCM 5%O 95%M	0.21
0.00	1900ft GIP	0.00

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

10-14-17, Ellis, KS

2020 N. Bramblewood
Wichita KS 67206

Goetz #B3

Job Ticket: 58969

DST#: 1

ATTN: Steve Reed

Test Start: 2014.06.08 @ 00:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

62000 ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	VSOMCW 5%O 80%W 15%M	2.525
120.00	GSWCO 30%G 55%O 15%W	1.683
440.00	GO 35%G 65%O	6.172
15.00	VSOCM 5%O 95%M	0.210
0.00	1900ft GIP	0.000

Total Length: 755.00 ft

Total Volume: 10.590 bbl

Num Fluid Samples: 0

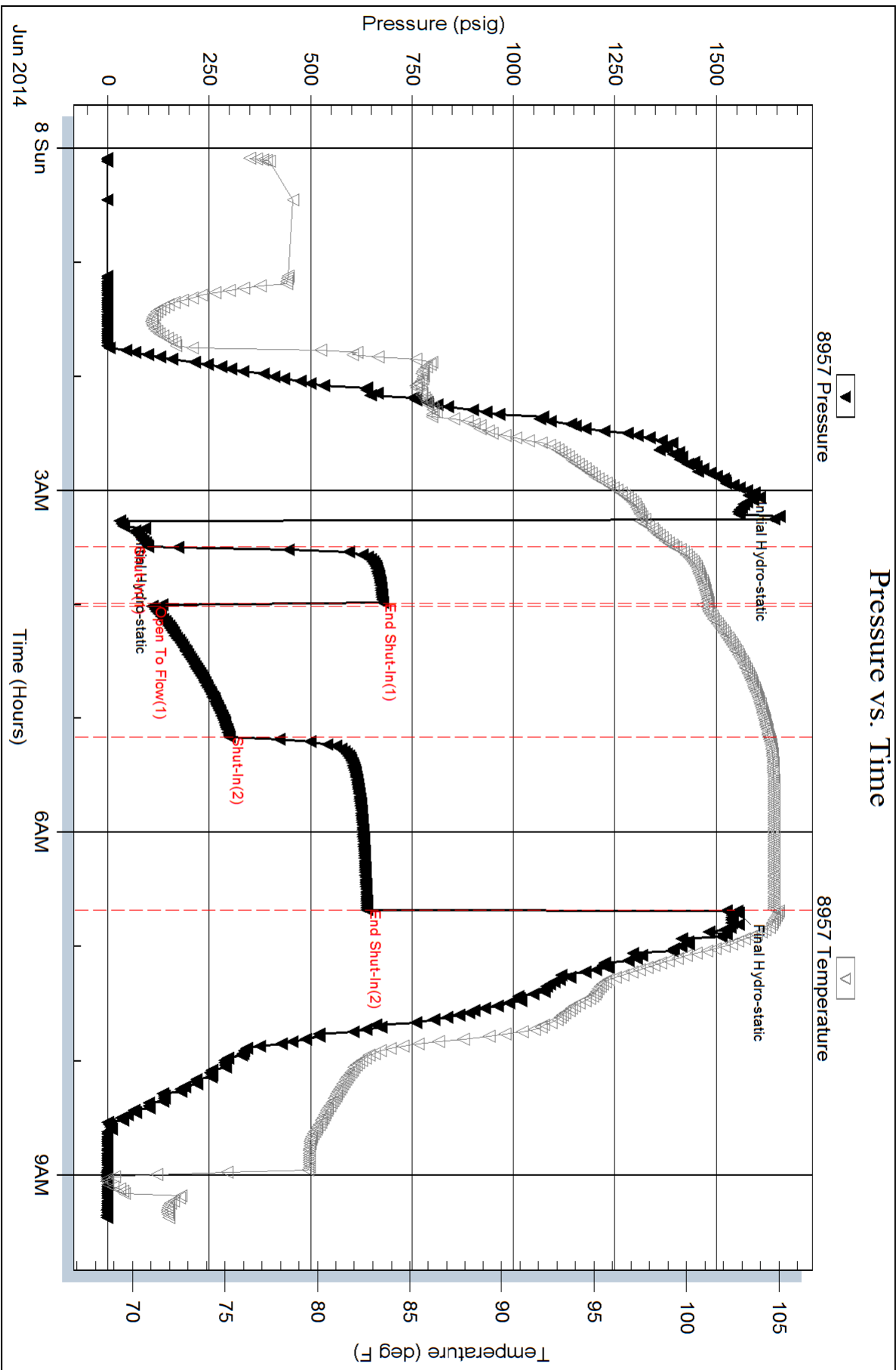
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



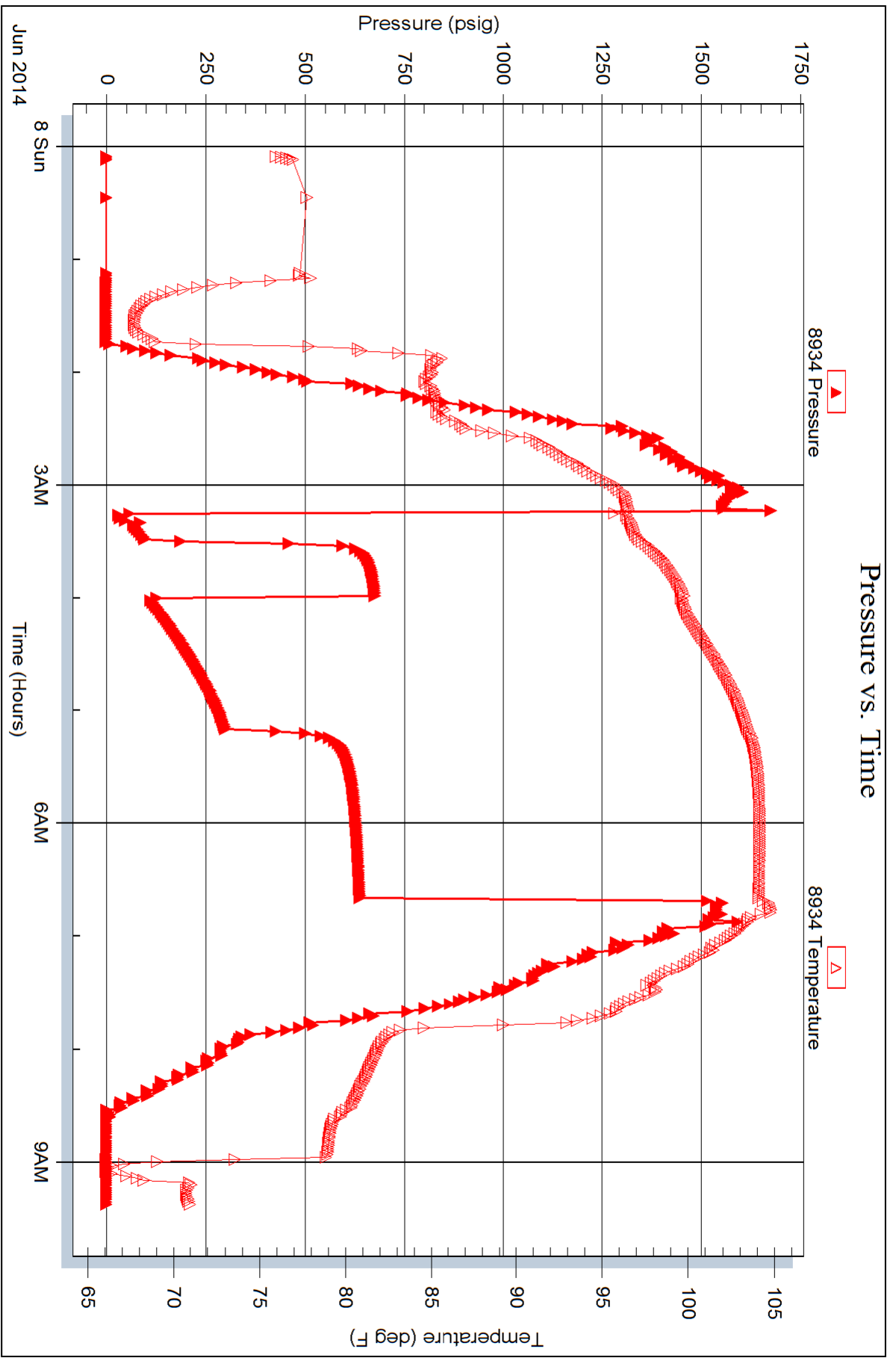
Serial #: 8934

Inside

Berexco LLC.

Goetz #B3

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.
 2020 N. Bramblewood
 Wichita KS 67206
 ATTN: Steve Reed

10-14-17, Ellis, KS
Goetz #B3
 Job Ticket: 58970 **DST#: 2**
 Test Start: 2014.06.08 @ 16:40:00

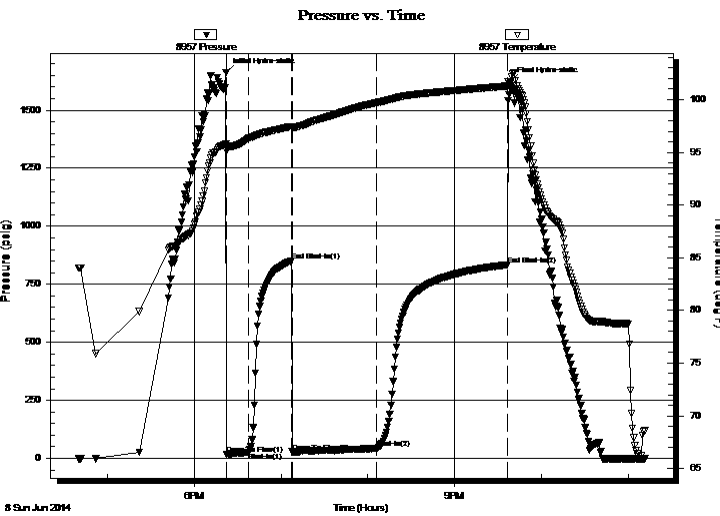
GENERAL INFORMATION:

Formation: **KC "E-G"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 18:22:30
 Tester: Brett Dickinson
 Time Test Ended: 23:11:30
 Unit No: 59
Interval: 3330.00 ft (KB) To 3389.00 ft (KB) (TVD)
 Reference Elevations: 2007.00 ft (KB)
 Total Depth: 3389.00 ft (KB) (TVD) 2000.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8957 Outside

Press @ Run Depth: 43.00 psig @ 3339.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.08 End Date: 2014.06.08 Last Calib.: 2014.06.08
 Start Time: 16:40:05 End Time: 23:11:29 Time On Btm: 2014.06.08 @ 18:22:00
 Time Off Btm: 2014.06.08 @ 21:38:30

TEST COMMENT: IF- 1 1/4in blow
 IS- No blow
 FF- 1in blow
 FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.74	95.77	Initial Hydro-static
1	18.20	95.10	Open To Flow (1)
16	26.82	96.33	Shut-In(1)
45	849.86	97.45	End Shut-In(1)
46	27.83	97.21	Open To Flow (2)
105	43.00	99.70	Shut-In(2)
195	834.56	101.29	End Shut-In(2)
197	1622.64	101.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OS Mud	0.84

* 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.

10-14-17, Ellis, KS

2020 N. Bramblewood
Wichita KS 67206

Goetz #B3

Job Ticket: 58970

DST#: 2

ATTN: Steve Reed

Test Start: 2014.06.08 @ 16:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OS Mud	0.842

Total Length: 60.00 ft Total Volume: 0.842 bbl

Num Fluid Samples: 0

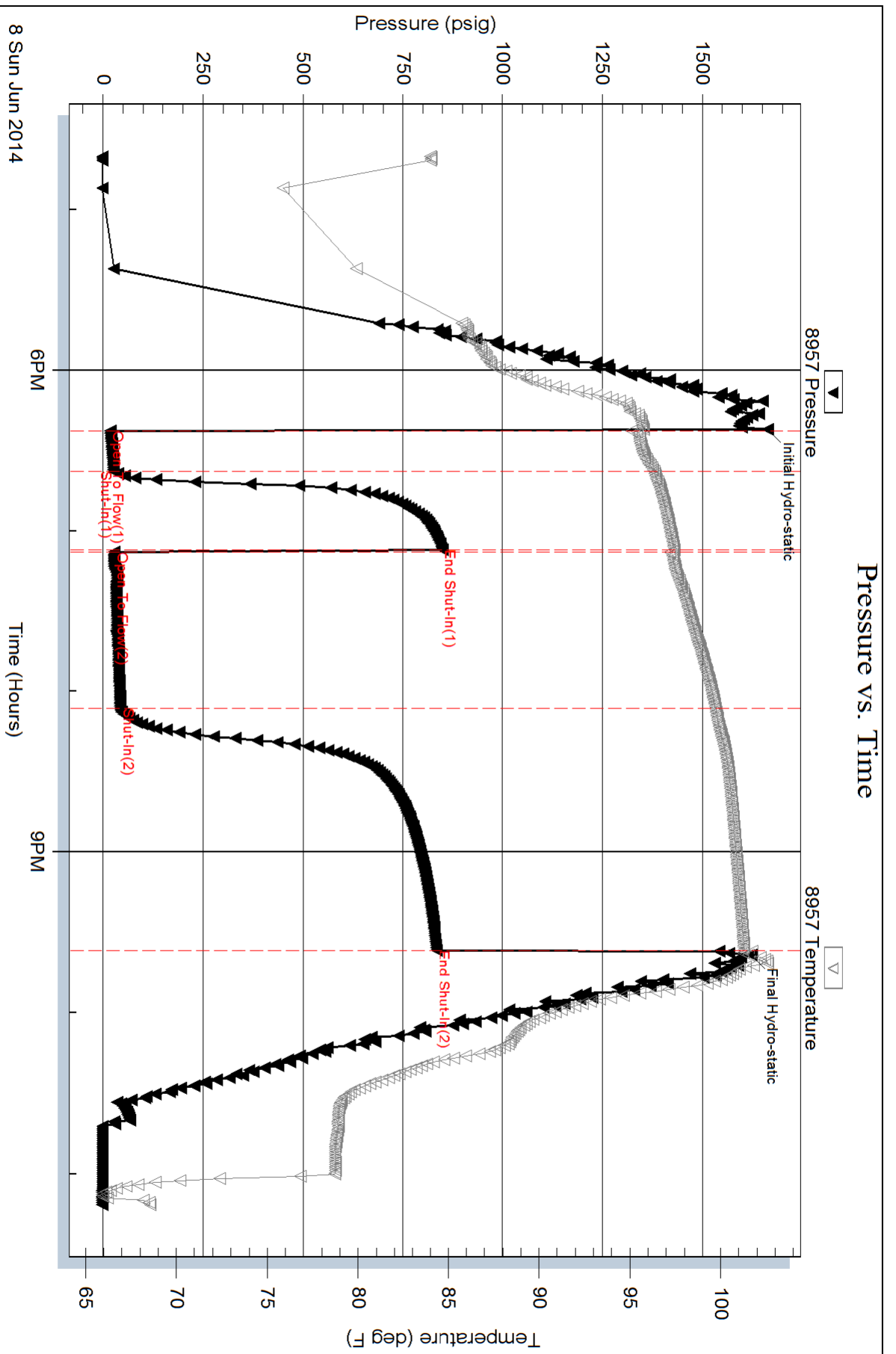
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Berexco LLC.

10-14-17, Ellis, KS

2020 N. Bramblewood
Wichita KS 67206

Goetz B #3

Job Ticket: 58971

DST#: 3

ATTN: Steve Reed

Test Start: 2014.06.09 @ 07:55:00

GENERAL INFORMATION:

Formation: **KC" I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:06:15

Time Test Ended: 15:24:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3419.00 ft (KB) To 3468.00 ft (KB) (TVD)

Reference Elevations: 2007.00 ft (KB)

Total Depth: 3468.00 ft (KB) (TVD)

2000.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8957 Outside

Press@RunDepth: 25.30 psig @ 3431.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.09

End Date:

2014.06.09

Last Calib.:

2014.06.09

Start Time:

07:55:05

End Time:

15:24:44

Time On Btm:

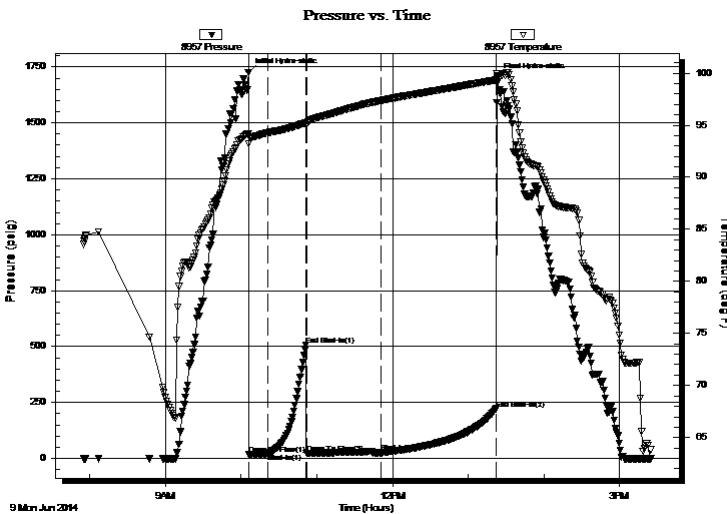
2014.06.09 @ 10:05:45

Time Off Btm:

2014.06.09 @ 13:23:15

TEST COMMENT: IF-Weak surface blow
IS-No blow
FF-Weak Surface blow
FS-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1725.70	94.17	Initial Hydro-static
1	18.62	93.20	Open To Flow (1)
16	20.89	94.28	Shut-In(1)
46	506.79	95.24	End Shut-In(1)
46	22.79	95.02	Open To Flow (2)
105	25.30	97.36	Shut-In(2)
197	222.35	99.34	End Shut-In(2)
198	1704.21	99.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	OS Mud	0.35

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

10-14-17, Ellis, KS

2020 N. Bramblewood
Wichita KS 67206

Goetz B #3

Job Ticket: 58971

DST#: 3

ATTN: Steve Reed

Test Start: 2014.06.09 @ 07:55:00

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: 33.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	OS Mud	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

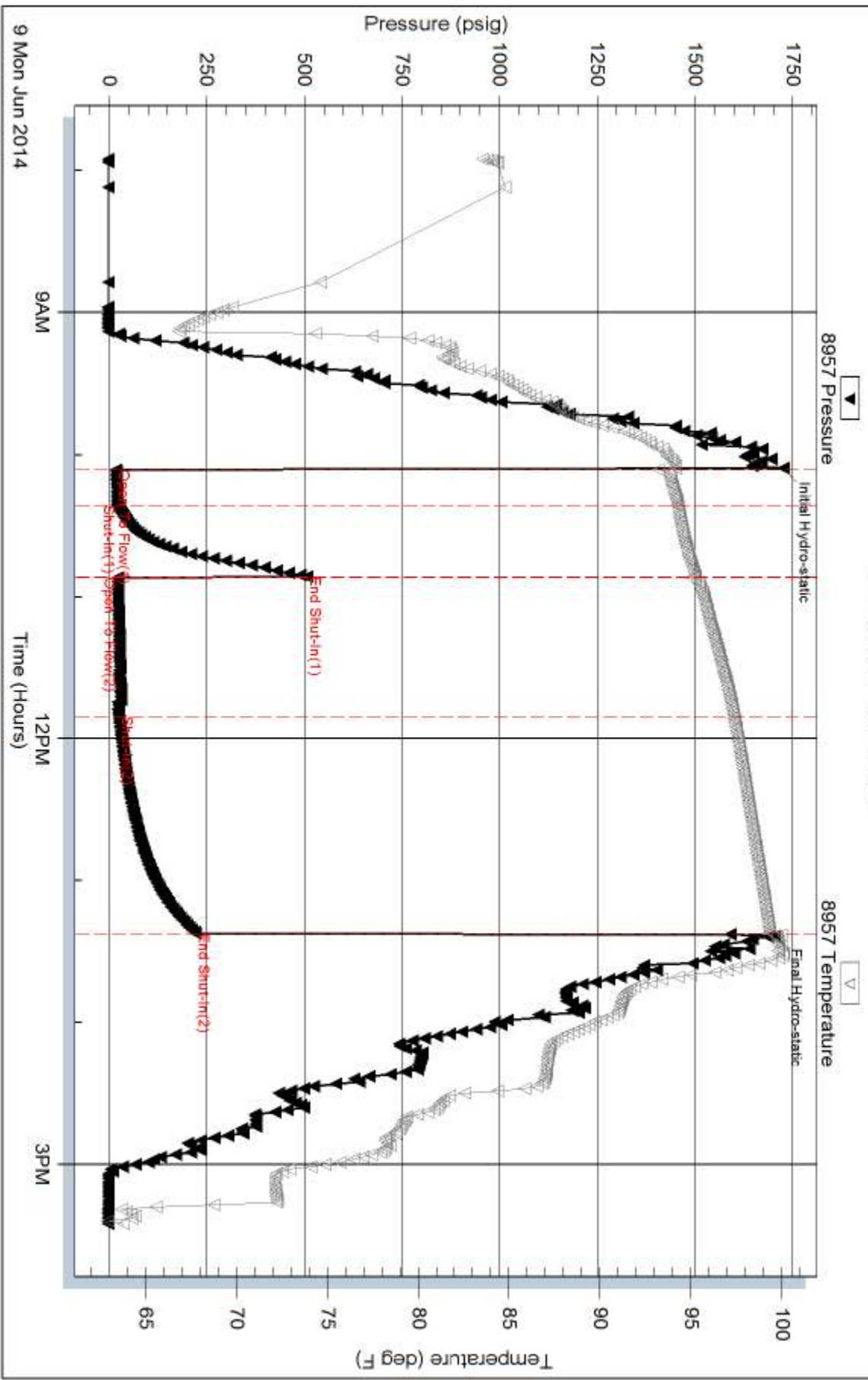
Serial #: 8957

Outside Berexco LLC.

Goeltz B#3

DST Test Number: 3

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Berexco LLC.

10-14-17, Ellis, KS

2020 N. Bramblewood
Wichita KS 67206

Goetz #B3

Job Ticket: 58972

DST#: 4

ATTN: Steve Reed

Test Start: 2014.06.10 @ 18:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:57:15

Time Test Ended: 02:35:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3500.00 ft (KB) To 3537.00 ft (KB) (TVD)

Reference Elevations: 2007.00 ft (KB)

Total Depth: 3537.00 ft (KB) (TVD)

2000.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8957 Outside

Press@RunDepth: 33.27 psig @ 3534.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.10

End Date:

2014.06.11

Last Calib.: 2014.06.11

Start Time: 18:40:05

End Time:

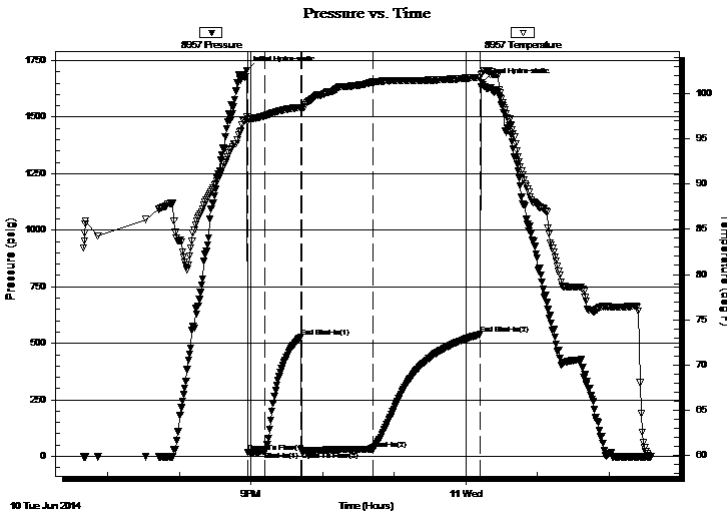
02:35:29

Time On Btm: 2014.06.10 @ 20:56:45

Time Off Btm: 2014.06.11 @ 00:13:45

TEST COMMENT: IF-2in blow
IS-No blow
FF-weak surface blow
FS-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1706.40	97.43	Initial Hydro-static
1	17.50	96.84	Open To Flow (1)
16	22.53	97.51	Shut-In(1)
46	528.74	98.46	End Shut-In(1)
46	24.93	98.25	Open To Flow (2)
106	33.27	101.23	Shut-In(2)
196	539.80	101.75	End Shut-In(2)
197	1653.98	102.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
23.00	VSOCM 5%O 95%M	0.32
2.00	Free Oil	0.03

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

10-14-17, Ellis, KS

2020 N. Bramblewood
Wichita KS 67206

Goetz #B3

Job Ticket: 58972

DST#: 4

ATTN: Steve Reed

Test Start: 2014.06.10 @ 18:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 23.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 20000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
23.00	VSOCM 5%O 95%M	0.323
2.00	Free Oil	0.028

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

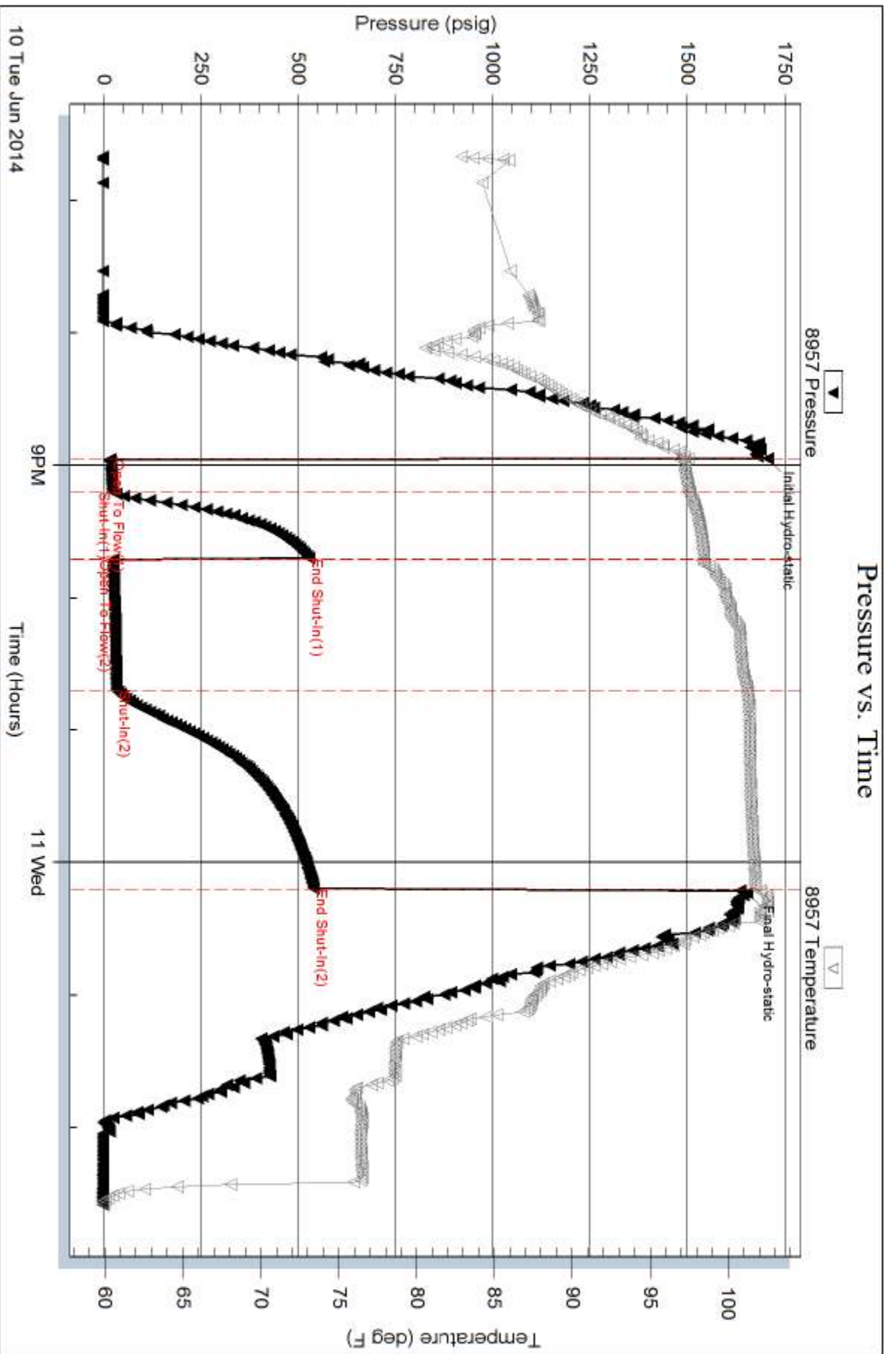
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC.
2020 N. Bramblewood
Wichita KS 67206
ATTN: Steve Reed

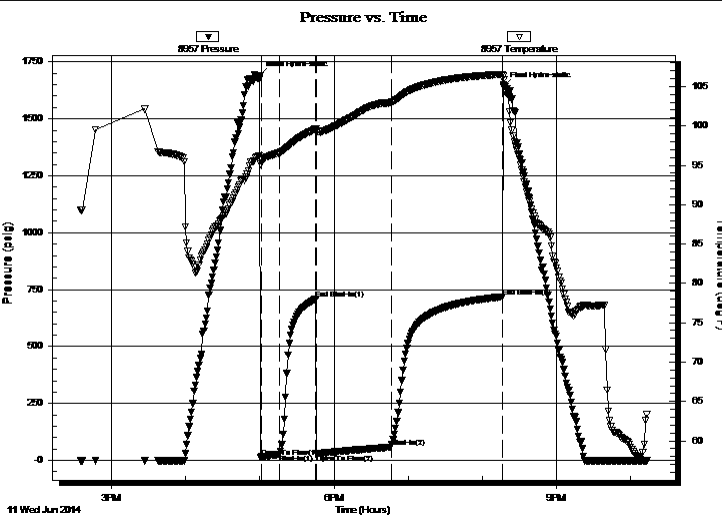
10-14-17, Ellis, KS
Goetz #B3
Job Ticket: 58973 **DST#: 5**
Test Start: 2014.06.11 @ 14:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:01:00
Time Test Ended: 22:13:15
Interval: **3537.00 ft (KB) To 3557.00 ft (KB) (TVD)**
Total Depth: 3557.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Brett Dickinson
Unit No: 59
Reference Elevations: 2007.00 ft (KB)
2000.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8957 Outside
Press @ Run Depth: 57.96 psig @ 3554.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.06.11 End Date: 2014.06.11 Last Calib.: 2014.06.11
Start Time: 14:35:05 End Time: 22:13:14 Time On Btm: 2014.06.11 @ 17:00:00
Time Off Btm: 2014.06.11 @ 20:17:15

TEST COMMENT: IF- 2 3/4in blow
ISI-No blow
FF-2 1/4in blow
FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1690.94	96.22	Initial Hydro-static
1	13.97	95.70	Open To Flow (1)
16	25.78	96.59	Shut-In(1)
46	707.84	99.59	End Shut-In(1)
46	28.40	99.35	Open To Flow (2)
106	57.96	102.99	Shut-In(2)
196	718.73	106.54	End Shut-In(2)
198	1639.69	105.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SGO5%G 95%O	0.14
70.00	VSMOCW 5%M 10%O 85%W	0.98

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC.
2020 N. Bramblewood
Wichita KS 67206
ATTN: Steve Reed

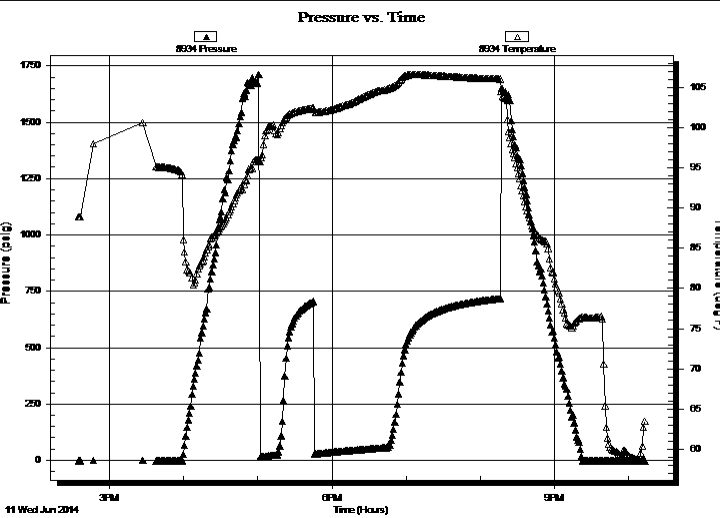
10-14-17, Ellis, KS
Goetz #B3
Job Ticket: 58973 **DST#: 5**
Test Start: 2014.06.11 @ 14:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:01:00
Time Test Ended: 22:13:15
Interval: **3537.00 ft (KB) To 3557.00 ft (KB) (TVD)**
Total Depth: 3557.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Brett Dickinson
Unit No: 59
Reference Elevations: 2007.00 ft (KB)
2000.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8934 Inside
Press @ Run Depth: psig @ 3554.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.06.11 End Date: 2014.06.11 Last Calib.: 2014.06.11
Start Time: 14:35:05 End Time: 22:12:59 Time On Btm:
Time Off Btm:

TEST COMMENT: IF- 2 3/4in blow
IS- No blow
FF- 2 1/4in blow
FS- No blow



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

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	SGO5%G 95%O	0.14
70.00	VSMOCW 5%M 10%O 85%W	0.98

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

10-14-17, Ellis, KS

2020 N. Bramblewood
Wichita KS 67206

Goetz #B3

Job Ticket: 58973

DST#: 5

ATTN: Steve Reed

Test Start: 2014.06.11 @ 14:35:00

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:

32000 ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	SGO5%G 95%O	0.140
70.00	VSMOCW 5%M 10%O 85%W	0.982

Total Length: 80.00 ft Total Volume: 1.122 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

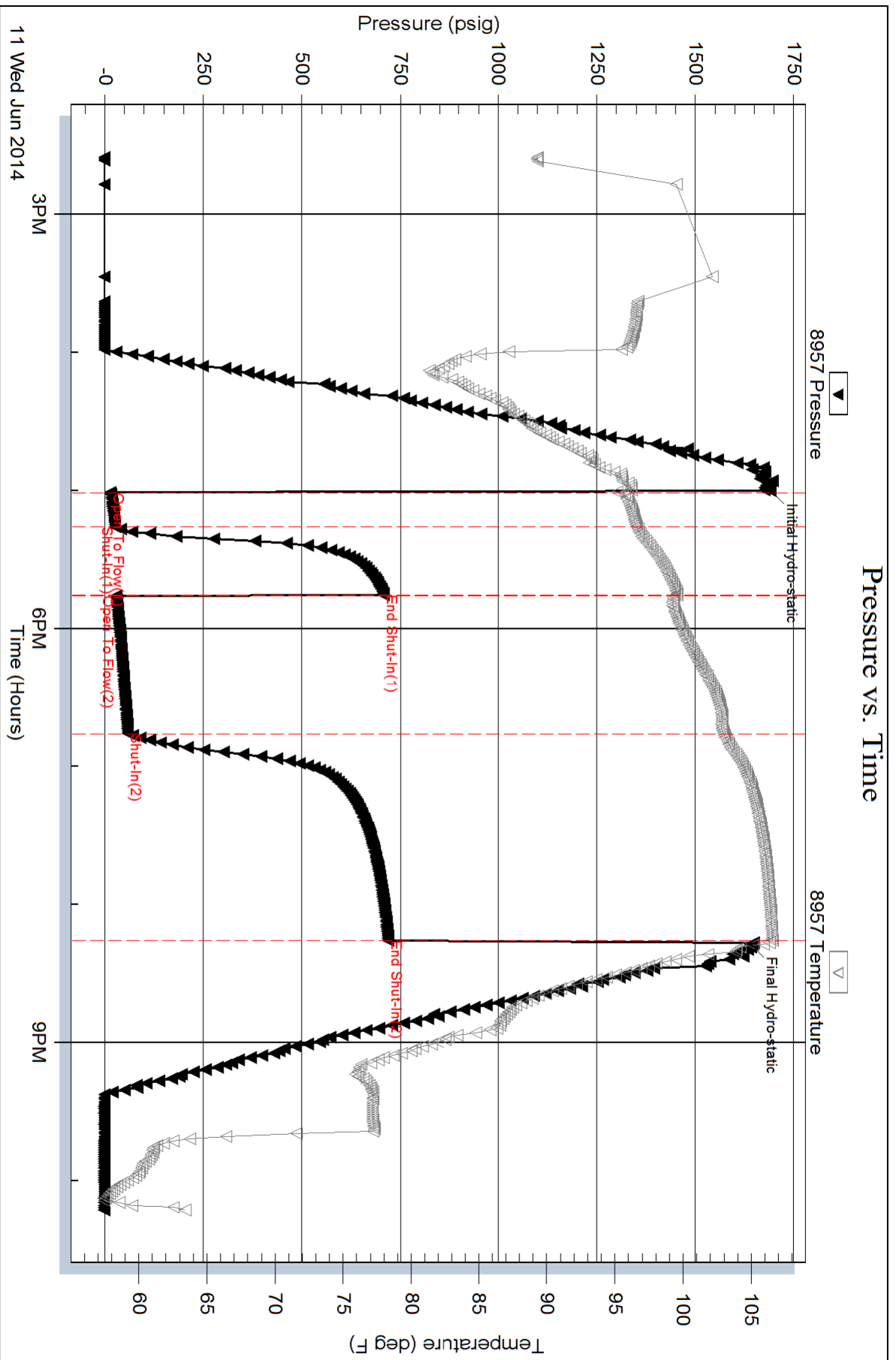
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



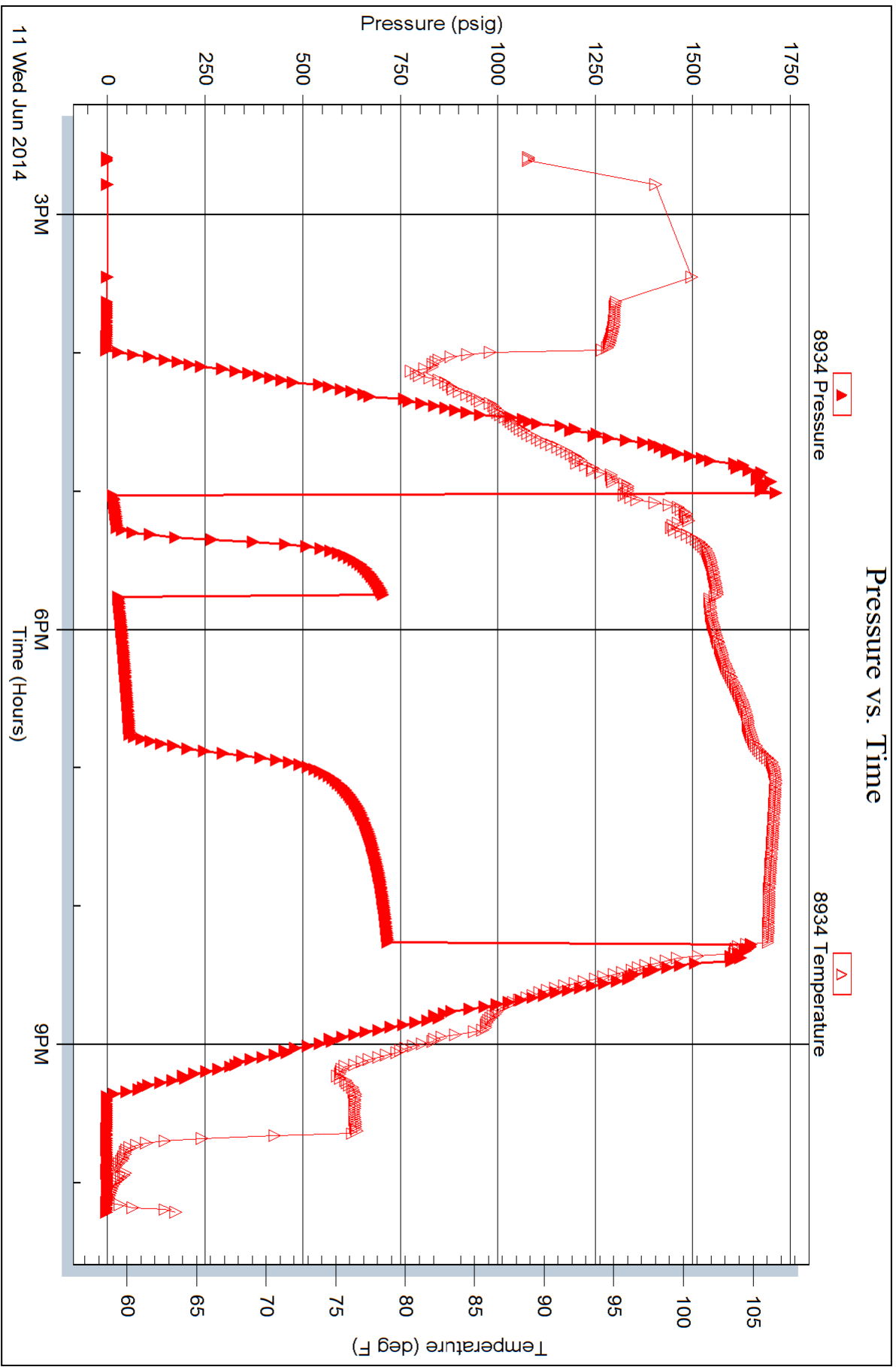
Serial #: 8934

Inside

Berexco LLC.

Goetz #B3

DST Test Number: 5



ALLIED OIL & GAS SERVICES, LLC 055287

Federal Tax I.D.# 20-5975804

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

SERVICE POINT
Russell ks

DATE <u>6.13.14</u>	SEC <u>10</u>	TWP. <u>14</u>	RANGE <u>7</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Goetz</u>	WELL# <u>43-3</u>	LOCATION <u>Toulon</u>	<u>1-70 East</u>	COUNTY <u>Ellis</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>		<u>2 south 2 3/4 e south into</u>					

CONTRACTOR <u>American Eagle</u>	OWNER
TYPE OF JOB <u>2-Stage Long String</u>	
HOLE SIZE <u>5 1/2</u>	T.D.
CASING SIZE <u>5 1/2</u>	DEPTH <u>3633'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>84.70'</u>
CEMENT LEFT IN CSG. <u>84.80'</u>	
PERFS.	
DISPLACEMENT <u>P1 - 84.80' @ 120</u>	

CEMENT	
AMOUNT ORDERED	<u>450 sk 6 1/4</u>
	<u>200 sk ASCA Blend</u>
COMMON <u>350 6 1/4</u>	@ <u>15.30</u> <u>\$5355.00</u>
POZMIX	@
GEL <u>61.9 lb</u>	@ <u>1.05</u> <u>\$649.95</u>
CHLORIDE	@
ASCA Blend <u>200 sk</u>	@ <u>23.50</u> <u>\$4700.00</u>
	@
	@
KCL - Seal <u>2997 lb</u>	@ <u>1.98</u> <u>\$5977.66</u>
	@
Cell - Flare <u>2113 lb</u>	@ <u>2.97</u> <u>\$6285.61</u>
	@
1x 500 gal mild	@
Flare	@ <u>1.40</u> <u>\$700.00</u>
HANDLING <u>1.50 #/3</u>	@ <u>2.48</u> <u>\$1,612.00</u>
MILEAGE <u>287.50 Km</u>	@ <u>2.62</u> <u>\$747.50</u>
material <u>12717.62</u>	TOTAL <u>14769.89</u>
disc <u>3560.93</u>	

EQUIPMENT	
PUMP TRUCK # <u>417</u>	CEMENTER <u>Gray Plaster</u>
BULK TRUCK # <u>481</u>	HELPER <u>Kevin R</u>
BULK TRUCK # <u>376</u>	DRIVER <u>Tracy J</u>
	DRIVER <u>John P</u>

REMARKS:

See Cementary Job log

Cement to surface

CHARGE TO: Bertex Oil

STREET _____

CITY _____ STATE _____ ZIP _____

KCC - Marvin Galt

To: Allied Oil & Gas Services, LLC.

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

PRINTED NAME _____

SIGNATURE [Signature]

SERVICE

DEPTH OF JOB	<u>3433'</u>
PUMP TRUCK CHARGE	<u>\$3558.75</u>
EXTRA FOOTAGE	@
MILEAGE <u>Heavy 30</u>	@ <u>7.7</u> <u>\$231.00</u>
MANIFOLD <u>high</u>	@ <u>0</u> <u>0</u>
	@
1x Depth Charge	@ <u>—</u> <u>\$2,243.75</u>
	<u>7393.00</u>
disc <u>2070.04</u>	TOTAL <u>\$5,033.50</u>

PLUG & FLOAT EQUIPMENT

1x 5 1/2 Float Shoe	<u>\$545.00</u>
1x 5 1/2 Latch Down Assy	@ <u>—</u> <u>\$610.00</u>
14x 5 1/2 Trenchers	@ <u>95.0</u> <u>\$1330.00</u>
2x 5 1/2 BASTA	@ <u>395.00</u> <u>\$790.00</u>
1x 5 1/2 2 Stage Collar	@ <u>—</u> <u>\$535.00</u>
2x 5 1/2 Stop Ring	@ <u>49.0</u> <u>\$98.00</u>
disc <u>2452.24</u>	TOTAL <u>\$8,758.00</u>

SALES TAX (If Any) _____

TOTAL CHARGES 28,868.62

DISCOUNT 8083.21 IF PAID IN 30 DAYS

(28) Net 20,785.41

OPERATOR

Company: BEREXCO LLC
 Address: 2020 NORTH BRAMBLEWOOD
 WICHITA, KS
 67206-1094
 Contact Geologist: DANA WREATH / BRUCE MEYER
 Contact Phone Nbr: 316-265-3311
 Well Name: GOETZ # B3
 Location: NE NW NW NE S10 T14S R17W
 API: 15-051-26698-00-00
 Pool:
 State: KANSAS
 Field: TOULON
 Country: USA



BEREXCO

Scale 1:240 Imperial

Well Name: GOETZ # B3
 Surface Location: NE NW NW NE S10 T14S R17W
 Bottom Location:
 API: 15-051-26698-00-00
 License Number: 34318
 Spud Date: 6/3/2014 Time: 7:20 PM
 Region: ELLIS COUNTY
 Drilling Completed: 6/12/2014 Time: 11:45 PM
 Surface Coordinates: 165 FNL & 2145 FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2000.00ft
 K.B. Elevation: 2007.00ft
 Logged Interval: 2700.00ft To: 3632.00ft
 Total Depth: 3632.00ft
 Formation: LANSING / KANSAS CITY, ARBUCKLE
 Drilling Fluid Type: CHEMICAL / FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.1955994
 Latitude: 38.8562541
 N/S Co-ord: 165 FNL
 E/W Co-ord: 2145 FEL

LOGGED BY



Company: SOLUTIONS CONSULTING, INC.
 Address: 108 W 35TH
 HAYS, KS 67601

Phone Nbr: (785) 639-1337
 Logged By: Geologist

Name: STEVE REED / HERB DEINES

CONTRACTOR

CONTRACTOR

Contractor: AMERICAN EAGLE DRILLING
 Rig #: 3
 Rig Type: MUD ROTARY
 Spud Date: 6/3/2014
 TD Date: 6/12/2014
 Rig Release: 6/13/2014

Time: 7:20 PM
 Time: 11:45 PM
 Time: 12:00 PM

ELEVATIONS

K.B. Elevation: 2007.00ft
 K.B. to Ground: 7.00ft

Ground Elevation: 2000.00ft

NOTES

BASED ON POSITIVE RESULTS OF DST #1, FAVORABLE STRUCTURAL POSITION TO COMPARISON WELLS, AND LOG ANALYSIS THE DECISION WAS MADE TO SET 5 1/2' PRODUCTION CASING TO FURTHER TEST THE KANSAS CITY "J" ZONE AND ARBUCKLE.

OPEN HOLE LOGGING PROVIDED BY: PIONEER ENERGY SERVICE
 DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, AND MICRORESISTIVITY LOGS WERE PERFORMED

DRILL STEM TESTING PROVIDED BY: TRILOBITE TESTING
 FIVE (5) CONVENTIONAL DRILL STEM TESTS WERE COMPLETED

FORMATION TOPS COMPARISON AND DAILY ACTIVITY SUMMARY

	WELL NAME		COMPARISON WELL	COMPARISON WELL
	GOETZ B #3		GOETZ # C2	GOETZ # A4
	API: 15-051-26698		API: 15-051-05159	API: 15-051-02972
FORMATION	SAMPLE TOPS	LOG TOPS	LOG TOPS (DATUM)	LOG TOPS (DATUM)
ANHYDRITE TOP	1185' (+822')	1181' (+826')	NA	NA
ANHYDRITE BASE	1224' (+783')	1223' (+784')	NA	NA
TOPEKA	2982' (-975')	2981' (-974')	NA	NA
35' TOPEKA	3013' (-1006')	3012' (-1005')	-1007'	NA
HEEBNER	3228' (-1221')	3229' (-1222')	-1225'	-1220'
TORONTO	3249' (-1242')	3248' (-1241')	-1241'	NA
LKC "A"	3276' (-1269')	3276' (-1269')	-1272'	-1268'
LKC "B"	3295' (-1288')	3296' (-1289')	-1293'	-1290'
LKC "C"	3318' (-1311')	3320' (-1313')	-1313'	-1311'
LKC "H"	3408' (-1401')	3406' (-1399')	-1403'	-1400'
LKC "I"	3431' (-1424')	3431' (-1424')	-1428'	-1425'
LKC "J"	3453' (-1446')	3447' (-1440')	-1443'	-1444'
BKC	3503' (-1496')	3504' (-1497')	NA	NA
ARBUCKLE	3518' (-1511')	3517' (-1510')	-1513'	-1508'
RTD	3632' (-1625')	3633' (-1626')	-1530'	-1536'

SUMMARY OF DAILY ACTIVITY

6-3-14 R.U., spud @ 7:20pm, 8 5/8" surface casing set at 263.47 w/170 sxs common, 2% gel, 3%cc

6-4-14 265', WOC, drill out plug @ 11:15am, drilling

6-5-14 1581', drilling

6-6-14 2479', drilling, CTCH, bit trip 2650, survey 3/4°, strap .44 short to board

6-7-14 3053', drilling, CFS @ 3310, CFS @ 3330, short trip (20 stands), CTCH, TOWB for DST #1

6-8-14 3330', TOWT for recovery, drilling, CFS @ 3389, CTCH, TOWB for DST #2, drilling CFS @3468

6-9-14 3468', TOWB for DST #2, drain off rainwater

6-9-14 3468' TOWB for DST #3, drain off rainwater


6-10-14 3468', Drain off water, work on mud system, drilling, CFS @ 3530, CFS @ 3537

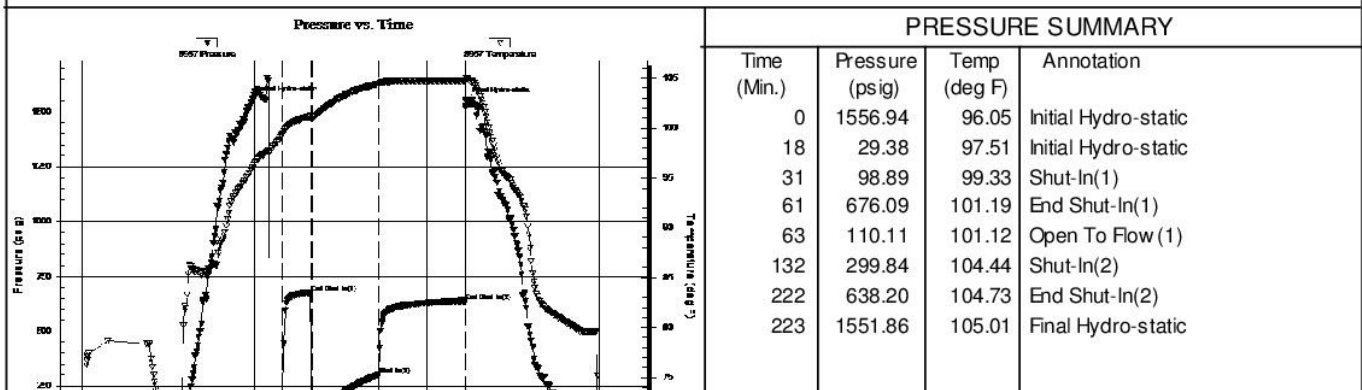
6-11-14 3537', DST #4, drilling, CFS @ 3557, DST #5, wait on weather, replace pan gasket on draw works engine

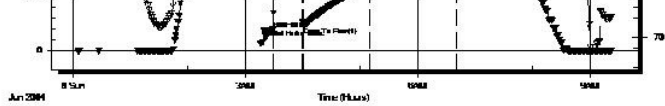
6-12-14 3557', drain off water, CTCH, drilling, TD of 3632 reached at 11:45am, CTCH, TOWB for logging, logging, prepare to set production casing

6-13-14 3632', set production casing, release rig

DST #1 SUMMARY

	DRILL STEM TEST REPORT		
	Berexco LLC. 2020 N. Bramblewood Wichita KS 67206 ATTN: Steve Reed	10-14-17, Ellis, KS Goetz #B3 Job Ticket: 58969 Test Start: 2014.06.08 @ 00:05:00	DST#:1
GENERAL INFORMATION:			
Formation: KC"B-C" Deviated: No Whipstock: ft (KB) Time Tool Opened: 04:00:45 Time Test Ended: 09:22:30		Test Type: Conventional Bottom Hole (Initial) Tester: Brett Dickinson Unit No: 59	
Interval: 3284.00 ft (KB) To 3330.00 ft (KB) (TVD) Total Depth: 3330.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Reference Elevations: 2007.00 ft (KB) 2000.00 ft (CF) KB to GR/CF: 7.00 ft	
Serial #: 8957 Outside			
Press@RunDepth: 299.84 psig @ 3293.00 ft (KB) Start Date: 2014.06.08 End Date: 2014.06.08 Start Time: 00:05:05 End Time: 09:22:30		Capacity: 8000.00 psig Last Calib.: 2014.06.08 Time On Btm: 2014.06.08 @ 02:58:30 Time Off Btm: 2014.06.08 @ 06:41:15	
TEST COMMENT: IF-BOB in 5min ISI-3/4in blow died to 1/4in FF-BOB in 2 1/2min FSI-BOB in 32min			





Recovery

Length (ft)	Description	Volume (bbl)
180.00	V SOMCW 5%O 80%W 15%M	2.52
120.00	G SWCO 30%G 55%O 15%W	1.68
440.00	GO 35%G 65%O	6.17
15.00	V SOCM 5%O 95%M	0.21
0.00	1900ft GIP	0.00

Gas Rates

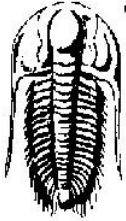
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc

Ref. No: 58969

Printed: 2014.06.08 @ 15:38:34

DST #2 SUMMARY



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Berexco LLC.

10-14-17, Ellis, KS

2020 N. Bramblewood
Wichita KS 67206

Goetz #B3

Job Ticket: 58970

DST#:2

ATTN: Steve Reed

Test Start: 2014.06.08 @ 16:40:00

GENERAL INFORMATION:

Formation: **KC "E-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:22:30

Time Test Ended: 23:11:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: **3330.00 ft (KB) To 3389.00 ft (KB) (TVD)**

Total Depth: 3389.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2007.00 ft (KB)

2000.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8957 Outside

Press@RunDepth: 43.00 psig @ 3339.00 ft (KB)

Start Date: 2014.06.08

End Date: 2014.06.08

Capacity: 8000.00 psig

Last Calib.: 2014.06.08

Start Time: 16:40:05

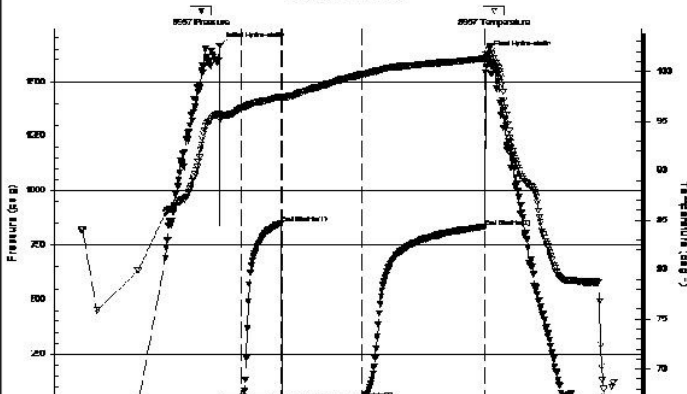
End Time: 23:11:29

Time On Btm: 2014.06.08 @ 18:22:00

Time Off Btm: 2014.06.08 @ 21:38:30

TEST COMMENT: IF- 1 1/4in blow
IS- No blow
FF- 1in blow
FS- No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.74	95.77	Initial Hydro-static
1	18.20	95.10	Open To Flow (1)
16	26.82	96.33	Shut-In(1)
45	849.86	97.45	End Shut-In(1)
46	27.83	97.21	Open To Flow (2)
105	43.00	99.70	Shut-In(2)
195	834.56	101.29	End Shut-In(2)
197	1622.64	101.50	Final Hydro-static



53,741,284

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OS Mud	0.84

* Recovery from multiple tests

Gas Rates


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

Trilobite Testing, Inc

Ref. No: 58970

Printed: 2014.06.08 @ 23:30:24

DST #3 SUMMARY

 <p>TRILOBITE TESTING, INC</p>	DRILL STEM TEST REPORT	
	Berexco LLC. 2020 N. Bramblewood Wichita KS 67206 ATTN: Steve Reed	10-14-17, Ellis, KS Goetz B #3 Job Ticket: 58971 DST# 3 Test Start: 2014.06.09 @ 07:55:00

GENERAL INFORMATION:

Formation: **KC" I-J"**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 10:06:15
 Time Test Ended: 15:24:45

Interval: **3419.00 ft (KB) To 3468.00 ft (KB) (TVD)**
 Total Depth: **3468.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

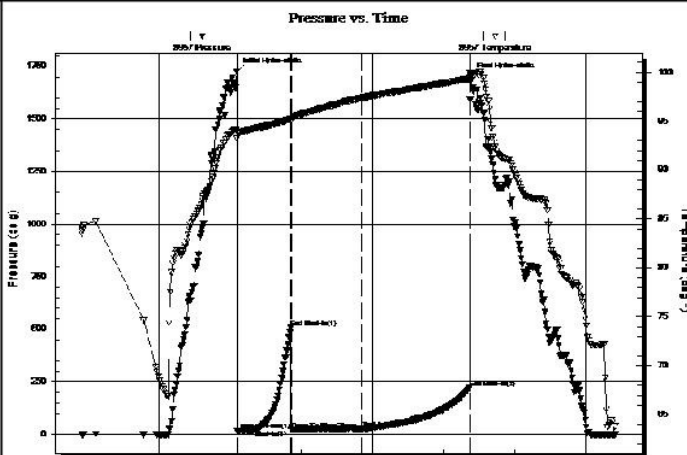
Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Brett Dickinson**
 Unit No: **59**

Reference Elevations: **2007.00 ft (KB)**
2000.00 ft (CF)
 KB to GR/CF: **7.00 ft**

Serial #: 8957 **Outside**

Press@RunDepth: **25.30 psig @ 3431.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2014.06.09** End Date: **2014.06.09** Last Calib.: **2014.06.09**
 Start Time: **07:55:05** End Time: **15:24:44** Time On Btm: **2014.06.09 @ 10:05:45**
 Time Off Btm: **2014.06.09 @ 13:23:15**

TEST COMMENT: IF-Weak surface blow
 IS-No blow
 FF-Weak Surface blow
 FS-No blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1725.70	94.17	Initial Hydro-static
1	18.62	93.20	Open To Flow (1)
16	20.89	94.28	Shut-In(1)
46	506.79	95.24	End Shut-In(1)
46	22.79	95.02	Open To Flow (2)
105	25.30	97.36	Shut-In(2)
197	222.35	99.34	End Shut-In(2)
198	1704.21	99.68	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
25.00	OS Mud	0.35

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


* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 58971

Printed: 2014.06.09 @ 15:40:00

DST #4 SUMMARY

	DRILL STEM TEST REPORT	
	Berexco LLC. 2020 N. Bramblewood Wichita KS 67206 ATTN: Steve Reed	10-14-17, Ellis, KS Goetz #B3 Job Ticket: 58972 DST#: 4 Test Start: 2014.06.10 @ 18:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:57:15
 Time Test Ended: 02:35:30

Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 59

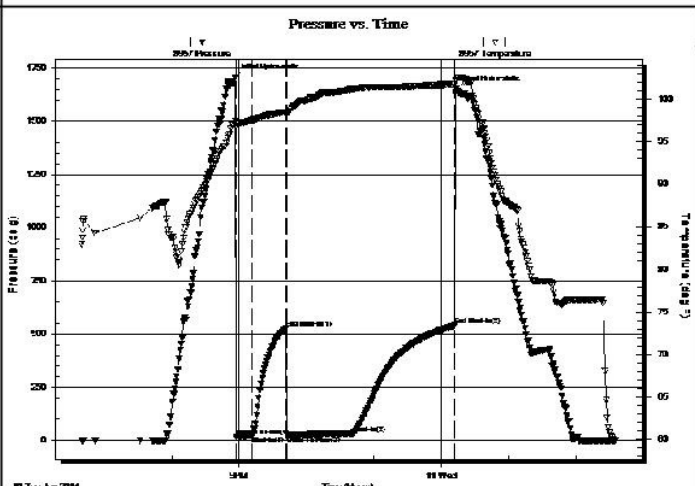
Interval: **3500.00 ft (KB) To 3537.00 ft (KB) (TV D)**
 Total Depth: 3537.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2007.00 ft (KB)
 2000.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8957 Outside

Press@RunDepth: 33.27 psig @ 3534.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2014.06.10 End Date: 2014.06.11	Last Calib.: 2014.06.11
Start Time: 18:40:05 End Time: 02:35:29	Time On Btm: 2014.06.10 @ 20:56:45
	Time Off Btm: 2014.06.11 @ 00:13:45

TEST COMMENT: IF-2in blow
 IS-No blow
 FF-weak surface blow
 FS-No blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1706.40	97.43	Initial Hydro-static
1	17.50	96.84	Open To Flow (1)
16	22.53	97.51	Shut-in(1)
46	528.74	98.46	End Shut-in(1)
46	24.93	98.25	Open To Flow (2)
106	33.27	101.23	Shut-in(2)
196	539.80	101.75	End Shut-in(2)
197	1653.98	102.17	Final Hydro-static

Recovery			Gas Rates		
Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
23.00	V SOCM 5%O 95%M	0.32			
2.00	Free Oil	0.03			







* Recovery from multiple tests

Tribolite Testing, Inc

Ref. No: 58972

Printed: 2014.06.11 @ 08:23:28

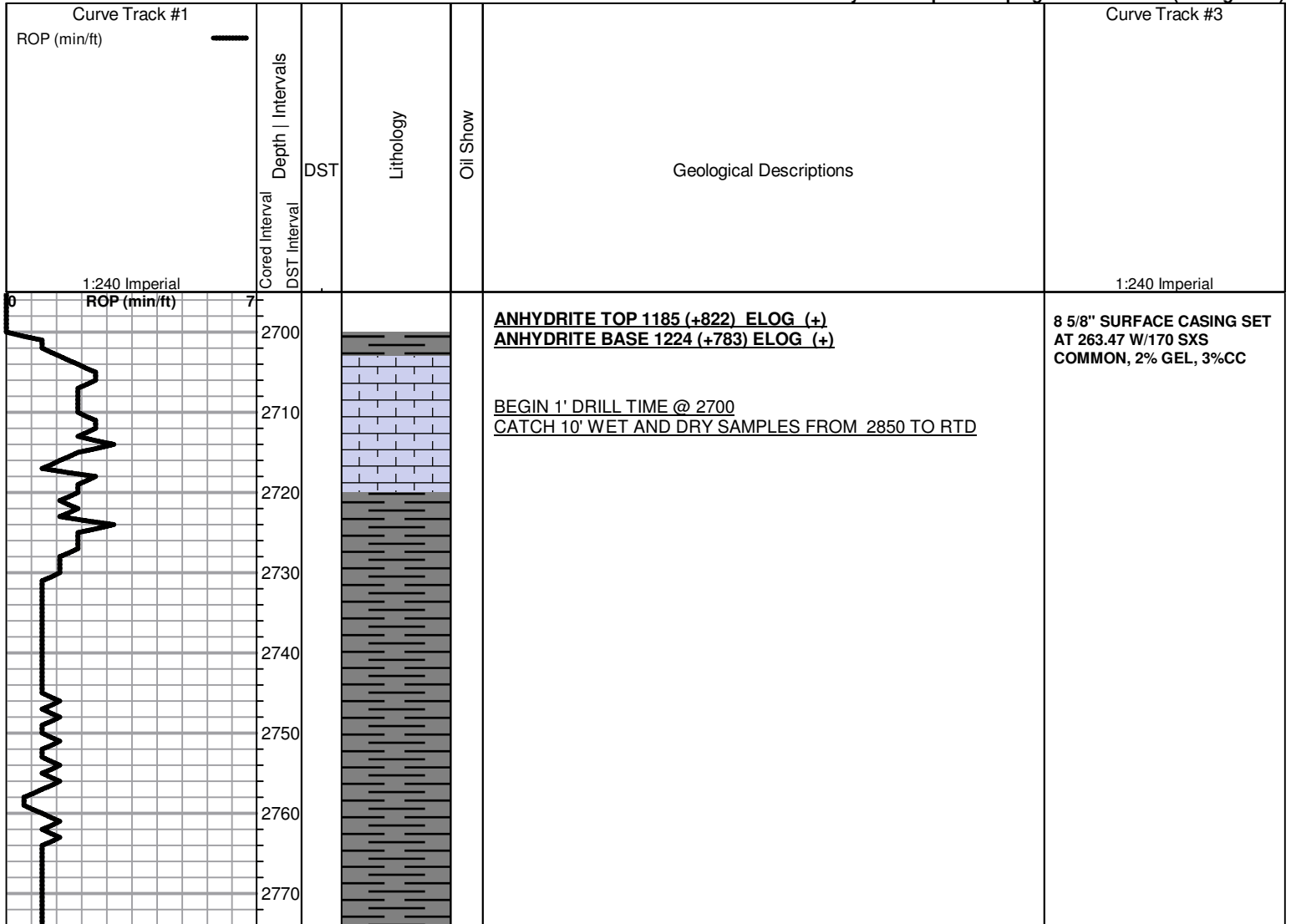
ROCK TYPES

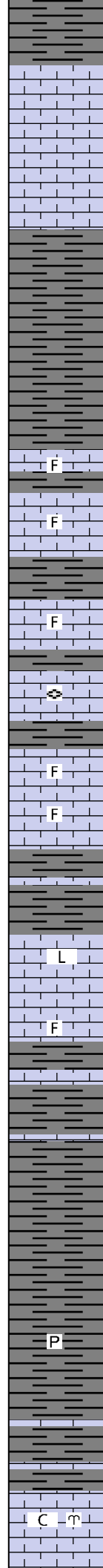
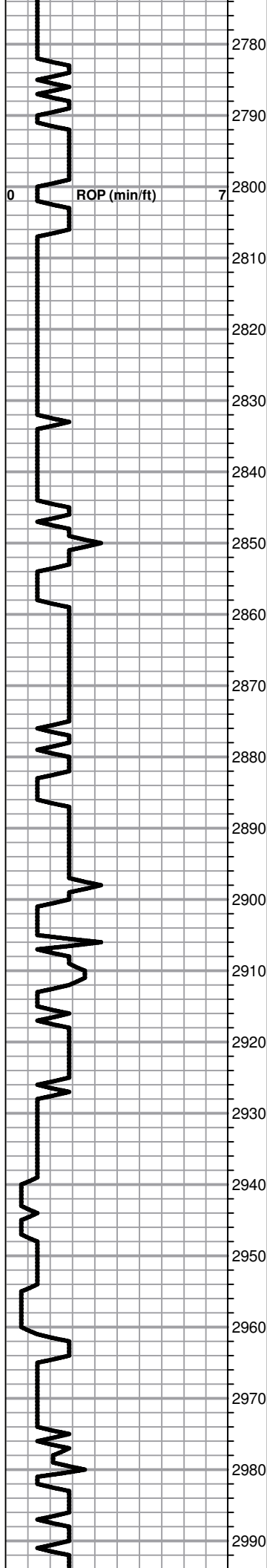
 Dolprim	 shale, grn	 Carbon Sh
 Lmst fw7>	 shale, gry	 shale, red

ACCESSORIES

MINERAL	FOSSIL	STRINGER	TEXTURE
▲ Chert, dark	∩ Bryozoa	~~~~ Chert	C Chalky
P Pyrite	F Fossils < 20%		L Lithogr
	⊖ Oolite		
	⊕ Fossilinid		

Printed by GEOstrip VC Striplog version 4.0.8.9 (www.grsi.ca)





Sh - light-medium gray, soft, fissile, forming sticky clumps

Lm - tan, granular, slightly fossiliferous, moderate hardness, brittle

Lm - cream-tan, slightly fossiliferous, fnxn, dense, hard, bedded chalk in part

Lm - tan-light brown, slightly fossiliferous, vf-fnxn, hard, brittle, no shows

Lm - light-medium brown, clastics, fnxn, hard, brittle, fusilinids, fossil casts

Lm - cream-tan, fossil fragments in medxn matrix, moderate hardness, some fine interxn porosity, light gray sticky shale in part

Lm - light brown-light gray, dark clastic fragments, fine interxn porosity, hard, brittle

Lm - light gray, vfxn, dense, hard, brittle

Lm - medium brown, vfxn to lithographic, dense, very hard, light gray sticky shale

Lm - tan, fossiliferous, fnxn matrix, dense, hard, fusilinids, pyrite

Sh - medium gray, soft, blocky

Lm - medium gray, mottled, vfxn, dense, hard

Sh - light gray, soft, sticky clumps

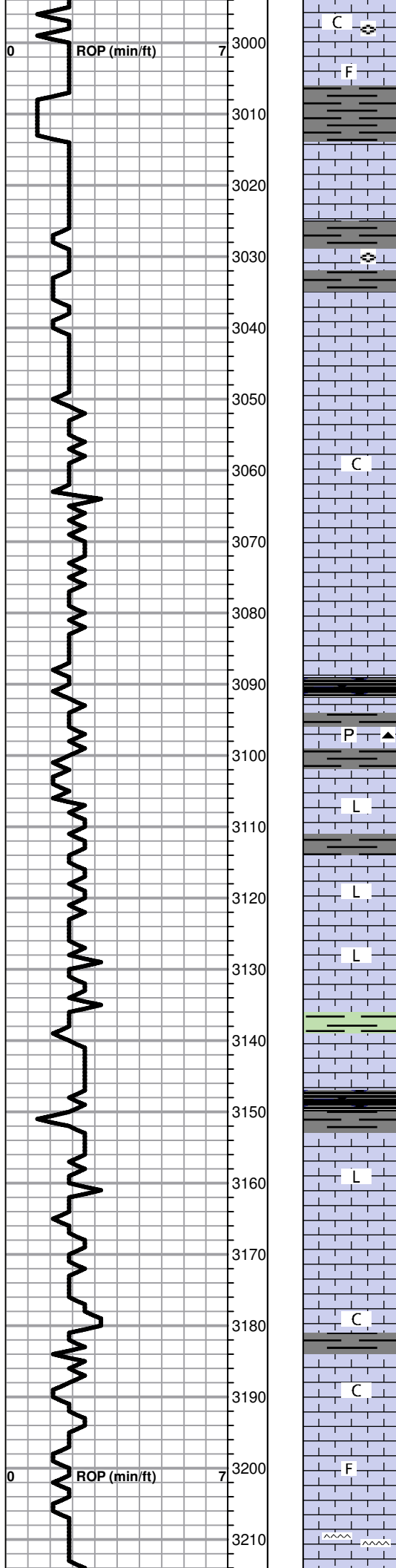
Sh - light medium gray, soft, blocky, pyrite

Sh - light-medium gray, soft, blocky, forming sticky clumps

TOPEKA SPL 2982 (-975) ELOG 2981 (-974)

Lm - cream, clastic, medxn, moderate hardness, bryozoans, white sticky chalk in part

**MUD WT. 8.5
VIS. 60
LCM 2#**



Lm - cream-tan, clastic, fnxln, hard, brittle, chalk in part, fusulinids

Lm - tan, vfxln, dense, hard, fossil casts

35' TOPEKA SPL 3013 (-1006) ELOG 3012 (-1005)

Lm - tan-light brown, vfxln to lithographic, dense, hard, brittle, clean and barren

Lm - light brown / gray, fnxln, dense, brittle, fusulinids

Lm - light-medium gray, slightly fossiliferous, fine interxln porosity, dense, hard, brittle

Lm - tan-light brown, fnxln to lithographic, dense, hard, brittle, bedded chalk in part

Lm - tan, fnxln, hard, brittle, chalk in part

Lm - cream, fn-medxln, dense, hard, fossil casts, white sticky chalk

Lm - cream-tan, fn-medxln, some hard, some friable, slightly chalky

Sh - black, carbonaceous, waxy, soft

Lm - tan, vfxln, dense, brittle, black chert, pyrite

Lm - cream, vfxln to lithographic, dense, hard, brittle, bedded chalk in part

Lm - cream-light gray, vfxln to lithographic, dense, hard, brittle

Lm - buff-medium brown, lithographic, dense, hard, brittle, clean and barren

Lm - cream, fossiliferous, fine interxln porosity, dense, hard, brittle, chalky, green sticky shale clumps

Sh - black, carbonaceous, waxy, soft, fissile

Lm - cream, lithographic, dense, hard, brittle, bedded chalk in part

Lm - cream-buff, fnxln, hard, brittle, no shows

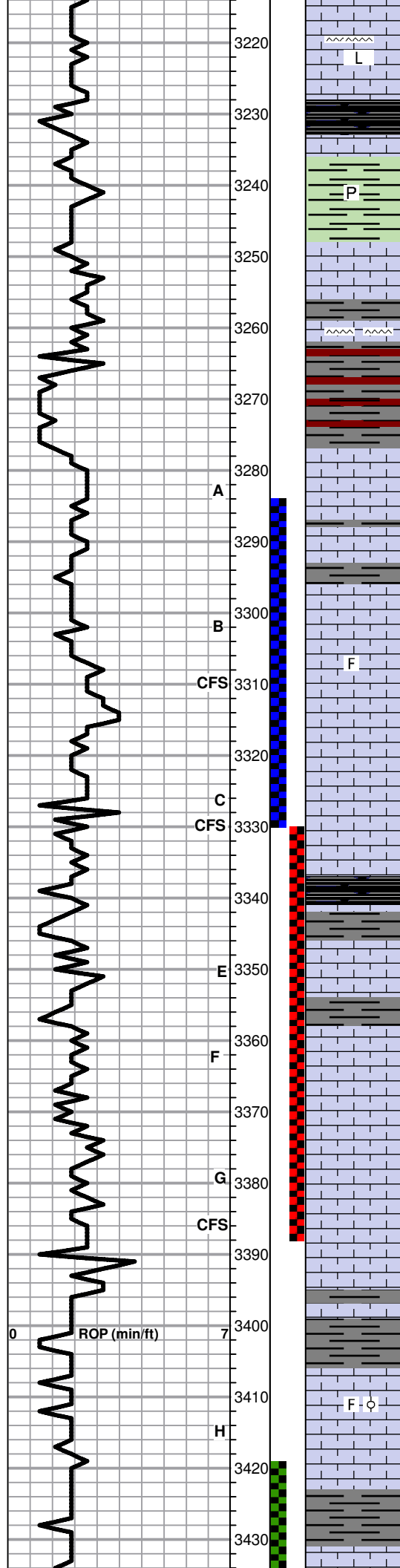
Lm - cream-light brown, vfxln, dense, hard, brittle, chalky

Lm - tan, fossiliferous, granular, soft, slightly chalky

Lm - cream, slightly fossiliferous, granular, dark black gilsonitic stain, faint odor, NSFO, (one chip light gray, fnxln, scattered pinpoint porosity, dark brown stain, SFO upon crush, faint odor, slight UV fluorescence)

Lm - tan-light gray, fnxln, moderate hardness, bedded chalk, cherty

D
○
■



Lm - cream-tan, vfxln to lithographic, dense, brittle, bedded chalk, cherty

HEEBNER SPL 3228 (-1221) ELOG 3229 (-1222)

Sh - black carbonaceous, waxy, soft

Sh - light gray, soft, blocky with green soft sticky clumps, pyrite

TORONTO SPL 3249 (-1242) ELOG 3248 (-1241)

Lm - cream-tan, fnxln, bedded chalk, NSFO, no odor

D Lm - tan-medium brown, microxln, slight gilsonitic stain, no odor, NSFO, cherty

Sh - light gray / maroon, soft, blocky

LKC "A" SPL 3276 (-1269) ELOG 3276 (-1269)

○ Lm - cream-light gray, fnxln, scattered pinpoint porosity, two chips with light brown stain, SFO upon crush, bedded chalk in part

Lm - tan-light brown, microxln, dense, hard, brittle, some dark gilsonitic stain, no odor, NSFO

LKC "B" SPL 3295 (-1288) ELOG 3296 (-1289)

○ Lm - light brown, scattered fine pinpoint porosity, light golden brown stain, faint odor, NSFO

● Lm - light brown, fn-medxln, saturated dark brown stain, slight vuggy porosity, fossil clasts in part, good streaming wet cut, faint odor, NSFO

Lm - tan-cream, fn-medxln, hard, brittle

Sh - medium brown / gray, soft, blocky, some sticky

LKC "C" SPL 3318 (-1311) ELOG 3320 (-1313)

● Lm - tan, fine pinpoint porosity with scattered vugs, scattered light brown stain, SFO upon crush, faint odor, UV fluorescence

○ Lm - tan, fnxln, scattered vuggy porosity, light golden brown stain, SFO upon crush, faint odor

Sh - black, carbonaceous, fissile, soft

○ Lm - light gray, fine pinpoint porosity, slight scattered stain, NSFO, questionable odor

Lm - tan, microxln, hard, bedded chalk in part, NSFO

○ Lm - cream-light gray, oolitic, scattered fine interxln porosity, slightly vuggy, faint odor, light golden brown saturated stain, SFO upon crush

○ Lm - cream - light gray, oolitic, slight scattered pinpoint porosity, scattered light brown stain, faint odor, SFO upon crush, streaming wet cut

○ Lm - cream, fnxln, scattered pinpoint porosity, fossiliferous, scattered light brown stain, questionable odor

D Lm - cream-tan, fossiliferous with scattered interxln porosity in some, slight gisonitic stain, NSFO, no odor

Lm - cream, fnxln, no visible porosity, no stain, no odor, bedded chalk

Sh - medium gray / brown, soft, blocky

LKC "H" SPL 3408 (-1401) ELOG 3406 (-1399)

○ Lm - cream-light brown, oolitic, slightly fossiliferous, fnxln, hard, black chert, slight bedded chalk, some chips with fine pinpoint porosity, light scattered brown stain, NSFO, no odor

○ Lm - cream, fnxln, scattered pinpoint porosity, light brown stain, NSFO, good streaming wet cut, no odor

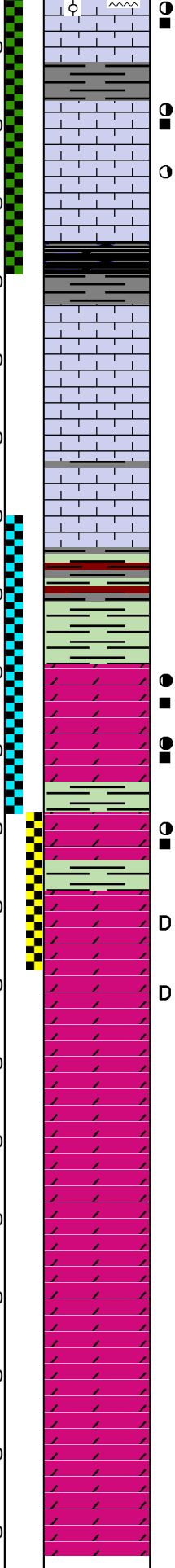
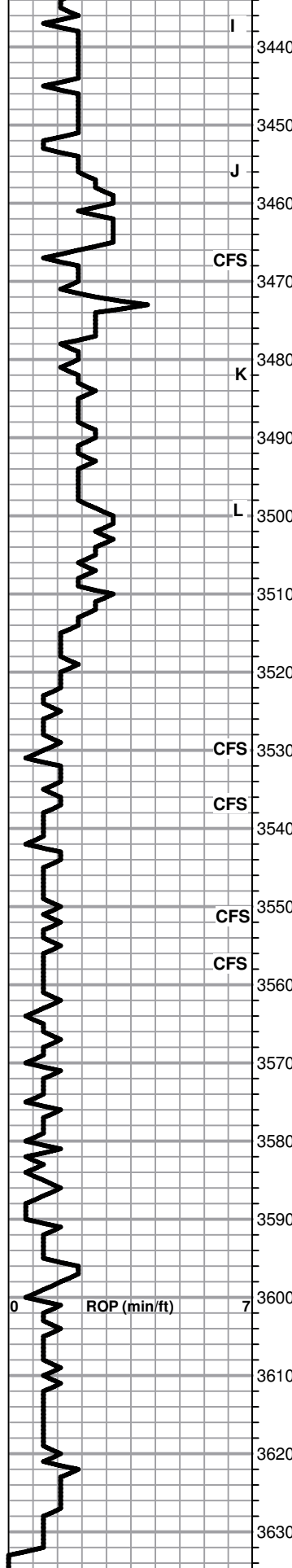
LKC "I" SPL 3431 (-1424) ELOG 3431 (-1424)

MUD WT. 8.6
VIS. 60
LCM 2#

DST #1 3284 TO 3330
SEE HEADER FOR TEST SUMMARY

DST #2 3330 TO 3389
SEE HEADER FOR TEST SUMMARY

DST #3 3419 TO 3468
SEE HEADER FOR TEST SUMMARY



Lm - cream-light gray, oolitic in part, scattered vuggy porosity with SFO, faint odor, UV fluorescence, cherty

Lm - cream, oomoldic, scattered vuggy porosity, saturated golden brown stain, good odor, SFO, UV fluorescence, gray chert

LKC "J" SPL 3453 (-1446) ELOG 3447 (-1440)

Lm - cream-slightly fossiliferous, fine pinpoint porosity, light saturated stain, NSFO, faint odor, UV fluorescence

Lm - cream, fnxn, dense, brittle, clean and barren

Sh - dark gray, firm, blocky

Lm - tan, microfxn, dense, very hard

Lm - cream-tan, micro-fnxn, hard, brittle, bedded chalk in part

Lm - cream, cryptoxn, dense, hard, brittle, no shows

BKC SPL 3503 (-1496) ELOG 3504 (-1497)

Sh - greenish gray / maroon, soft, blocky

Sh - lime green, soft, waxy

ARBUCKLE SPL 3518 (-1511) ELOG 3517 (-1510)

Dolo - light brown, vfxn-sucrosic, friable, SFO, saturated light brown stain, good odor, good streaming wet cut

Dolo - tan, fnxn, hard, SFO, saturated light brown stain, scattered vuggy porosity, good streaming wet cut, strong odor

Sh - lime green, waxy, firm

Dolo - tan, fn-medfxn, fine interfxn porosity, scattered light brown stain, good odor, UV fluorescence, streaming wet cut

Sh - lime green, waxy, firm

Dolo - tan, vf-fnxn, limited porosity, brittle, slight scattered gilsonitic stain, strong odor

Dolo - cream-tan, fn-medfxn, slight scattered vuggy porosity, dark gilsonitic stain, good odor, NSFO

Dolo - buff-cream, fnxn, brittle, no shows

Dolo - buff, fnxn, brittle, cherty

Dolo - offwhite, fnxn, hard, brittle, clean and barren

Dolo - offwhite, fn-medfxn, pinpoint porosity, hard, brittle, no shows, white chert

Dolo - cream, fn-medfxn, fine pinpoint porosity, well developed rhombic xtals, no shows, no odor

Dolo - tan, medfxn with fine interfxn porosity, well cemented, hard, brittle, no shows, no odor, white chert

RTD 3632 (-1625) LTD 3633 (-1626)

DST #4 3500 TO 3537
SEE HEADER FOR TEST SUMMARY

DST #5 3537 TO 3557
SEE HEADER FOR TEST SUMMARY

ARBUCKLE OVERALL HAD VERY TRASHY SAMPLES