



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1222178  
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: \_\_\_\_\_

1222178

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  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				

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Schwerdt 2-2
Doc ID	1222178

Tops

Name	Top	Datum
Anhydrite (stone corral)	2994	+62
Anhydrite (base)	3024	+32
Foraker	3584	-528
Topeka	3794	-738
Oread	3914	-858
Lansing A	4012	-956
Lansing B	4066	-1010
Lansing C	4118	-1062
Lansing D	4169	-1113
Lansing E	4214	-1158
Lansing F	4254	-1198
RTD	4380	
LTD	4382	



# WELL FILE

## ALLIED OIL & GAS SERVICES, LLC 068471

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Beardsley

DATE <u>7-16-14</u>	SEC. <u>2</u>	TWP. <u>1s</u>	RANGE <u>36e</u>	CALLED OUT	ON LOCATION <u>6:00 AM</u>	JOB START <u>7:30 AM</u>	JOB FINISH <u>8:20 AM</u>	
LEASE <u>Schwerdt</u>			WELL # <u>2-2</u>	LOCATION <u>Beardsley N TO BA</u>		COUNTY <u>Rowles</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			W TO PL 7 N TO DD 2W+V INTO					

CONTRACTOR <u>Berexco 10</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u> T.D. <u>313'</u>	CEMENT
CASING SIZE <u>8 5/8</u> DEPTH <u>313'</u>	AMOUNT ORDERED <u>225.565 com 392.00</u>
TUBING SIZE DEPTH	<u>290 gal</u>
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	
MEAS. LINE SHOE JOINT	
CEMENT LEFT IN CSG. <u>15'</u>	COMMON <u>225.565</u> @ <u>17.90</u> <u>4022.50</u>
PERFS.	POZMIX @
DISPLACEMENT <u>18.98 BBL</u>	GEL <u>423#</u> @ <u>1.05</u> <u>444.15</u>
	CHLORIDE <u>634#</u> @ <u>1.10</u> <u>697.40</u>
	ASC @

EQUIPMENT		
PUMP TRUCK # <u>431</u>	CEMENTER <u>Andrew Fordlund</u>	<u>McDonnell TC-6</u> @ <u>3129.10</u>
BULK TRUCK # <u>818</u>	HELPER <u>Brancon Wilkins</u>	<u>1000.43 / 3170</u> @
BULK TRUCK #	DRIVER <u>Ramiro (TWS)</u>	@
BULK TRUCK #	DRIVER	@
		HANDLING <u>243.29 cylet</u> @ <u>2.148</u> <u>522.36</u>
		MILEAGE <u>2.25 ten mile 10.5270</u> <u>1454.06</u>

REMARKS:

Cement did circulate.

Thank you

CHARGE TO: Berexco

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL \_\_\_\_\_

SERVICE

DEPTH OF JOB <u>313'</u>	
PUMP TRUCK CHARGE	<u>1572.25</u>
EXTRA FOOTAGE @	
MILEAGE <u>50 miles</u> @ <u>2.20</u>	<u>110.00</u>
MANIFOLD <u>head</u> @ <u>25.00</u>	<u>N/C</u>
<u>Light vehicle</u> @ <u>4.40</u>	<u>N/C</u>
	@

(1000.43 / 3170) TOTAL 3,908.61

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL \_\_\_\_\_

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 Randy Blankenship

SIGNATURE Randy Blankenship

SALES TAX (if Any) \_\_\_\_\_

TOTAL CHARGES 7,123.79

DISCOUNT 2,820.37 (31%) IF PAID IN 30 DAYS

4,303.42 Net



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco LLC

**2 1s 36w Rawlins KS**

2020 N Bramblewood  
Wichita KS 67206

**Schwerdt 2-2**

Job Ticket: 58430

**DST#: 1**

ATTN: Bryan Bynog

Test Start: 2014.07.20 @ 10:40:00

## GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:27:00

Time Test Ended: 20:13:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Robert Zodrow

Unit No: 49

**Interval: 3940.00 ft (KB) To 4040.00 ft (KB) (TVD)**

Total Depth: 4040.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3051.00 ft (KB)

3040.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 6769 Outside**

Press @ Run Depth: 27.82 psig @ 3941.00 ft (KB)

Start Date: 2014.07.20

End Date: 2014.07.20

Start Time: 10:40:05

End Time: 20:13:30

Capacity: 8000.00 psig

Last Calib.: 2014.07.20

Time On Btm: 2014.07.20 @ 14:26:30

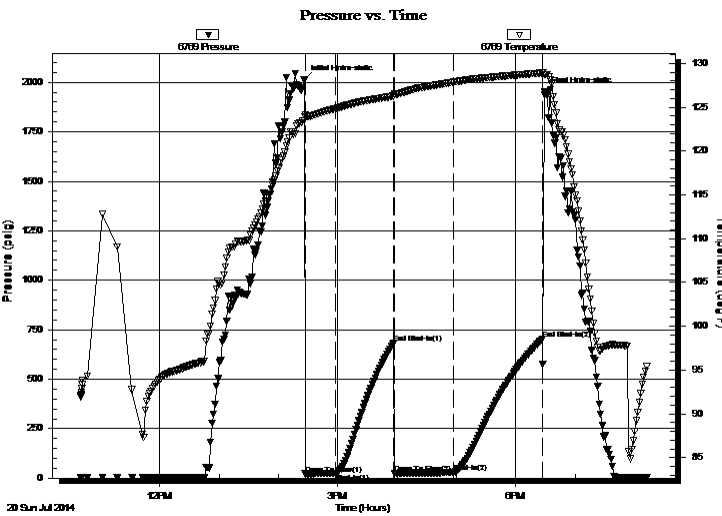
Time Off Btm: 2014.07.20 @ 18:29:30

**TEST COMMENT:** 30-IF- Surface blow died in 7 mins

60-ISI- No return

60-FF- No blow

90-FSI- No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2012.78	123.48	Initial Hydro-static
1	20.90	123.92	Open To Flow (1)
31	23.76	124.85	Shut-In(1)
90	680.67	126.28	End Shut-In(1)
91	24.96	126.49	Open To Flow (2)
151	27.82	127.88	Shut-In(2)
241	702.39	128.92	End Shut-In(2)
243	1953.43	128.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100%m	0.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Berexco LLC

**2 1s 36w Rawlins KS**

2020 N Bramblewood  
Wichita KS 67206

**Schwerdt 2-2**

Job Ticket: 58430

**DST#: 1**

ATTN: Bryan Bynog

Test Start: 2014.07.20 @ 10:40:00

**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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100% <sub>m</sub>	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl

Num Fluid Samples: 0

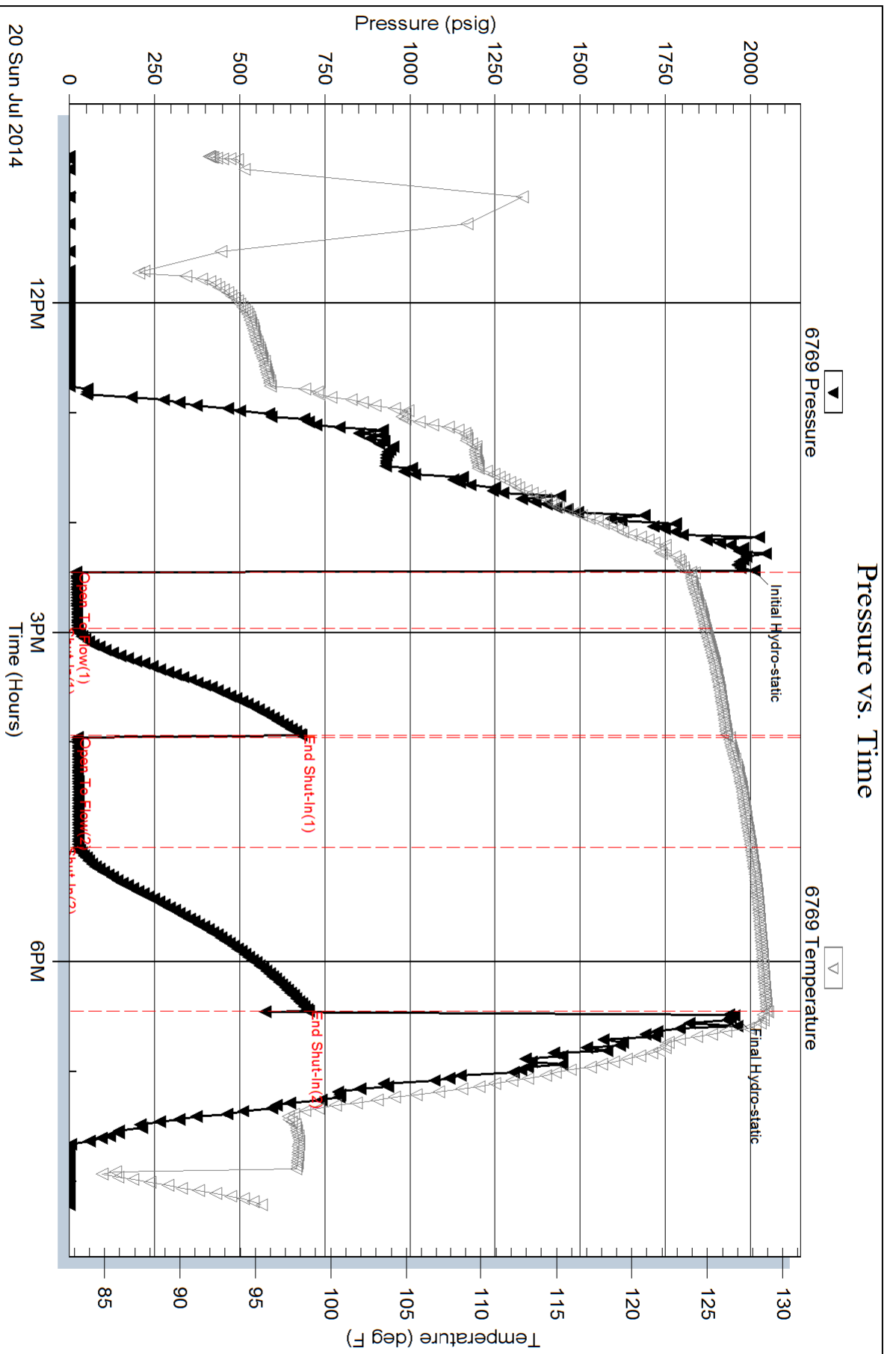
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco LLC

**2 1s 36w Rawlins KS**

2020 N Bramblewood  
Wichita KS 67206

**Schwerdt 2-2**

Job Ticket: 58431

**DST#: 2**

ATTN: Bryan Bynog

Test Start: 2014.07.21 @ 08:10:00

## GENERAL INFORMATION:

Formation: **LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:09:00

Time Test Ended: 17:12:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Robert Zodrow

Unit No: 49

**Interval: 4030.00 ft (KB) To 4090.00 ft (KB) (TVD)**

Reference Elevations: 3051.00 ft (KB)

Total Depth: 4090.00 ft (KB) (TVD)

3040.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6769 Outside**

Press @ Run Depth: 39.02 psig @ 4031.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.21

End Date: 2014.07.21

Last Calib.: 2014.07.21

Start Time: 08:10:05

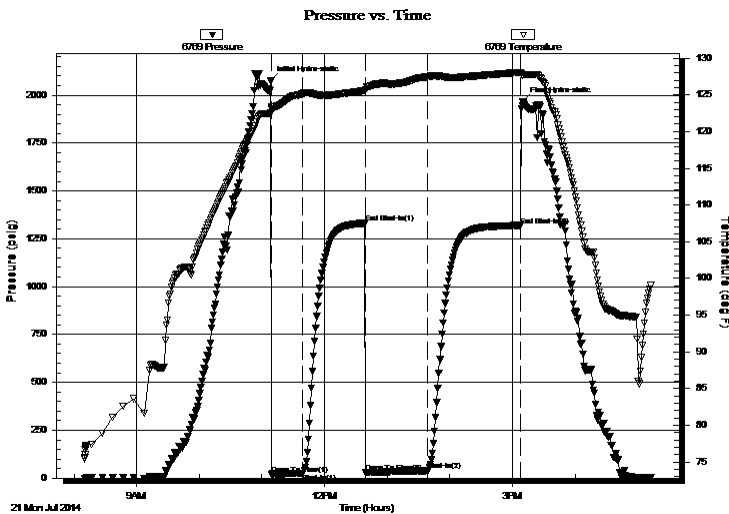
End Time: 17:12:30

Time On Btm: 2014.07.21 @ 11:08:30

Time Off Btm: 2014.07.21 @ 15:10:00

**TEST COMMENT:** 30-IF- No blow  
60-ISI- No return  
60-FF- No blow  
90-FSI- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2073.40	122.50	Initial Hydro-static
1	20.55	123.08	Open To Flow (1)
31	26.62	125.14	Shut-In(1)
91	1331.27	125.58	End Shut-In(1)
91	28.48	125.71	Open To Flow (2)
151	39.02	127.48	Shut-In(2)
239	1320.18	128.06	End Shut-In(2)
242	1963.45	127.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

## 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

**2 1s 36w Rawlins KS**

2020 N Bramblewood  
Wichita KS 67206

**Schwerdt 2-2**

Job Ticket: 58431

**DST#: 2**

ATTN: Bryan Bynog

Test Start: 2014.07.21 @ 08:10:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

#### Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

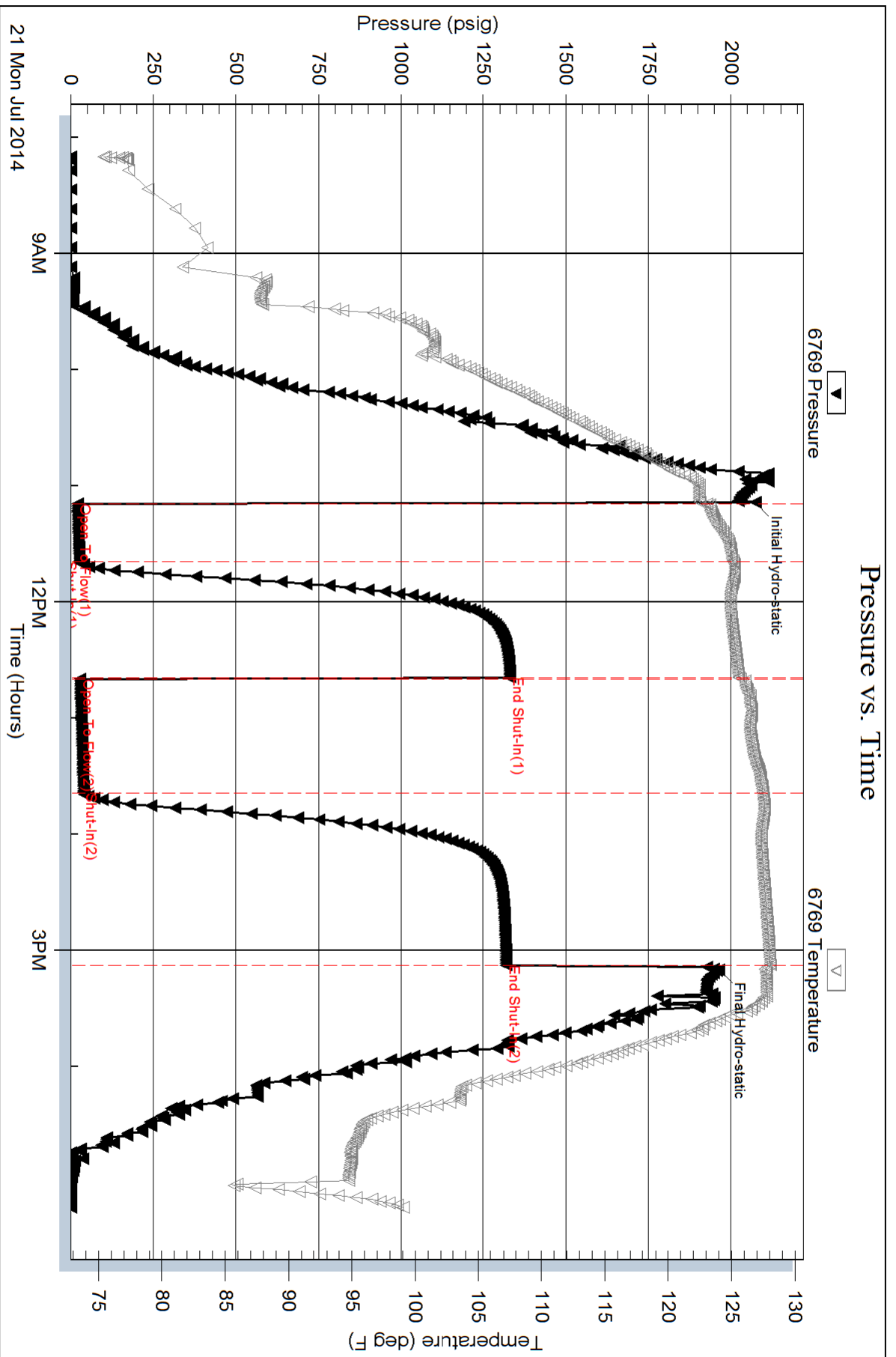
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco LLC

**2 1s 36w Rawlins KS**

2020 N Bramblewood  
Wichita KS 67206

**Schwerdt 2-2**

Job Ticket: 58432

**DST#: 3**

ATTN: Bryan Bynog

Test Start: 2014.07.22 @ 04:30:00

## GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:30:30

Time Test Ended: 15:43:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Robert Zodrow

Unit No: 49

**Interval: 4075.00 ft (KB) To 4145.00 ft (KB) (TVD)**

Total Depth: 4145.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3051.00 ft (KB)

3040.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 6769 Outside**

Press @ RunDepth: 25.36 psig @ 4076.00 ft (KB)

Start Date: 2014.07.22

End Date:

2014.07.22

Start Time: 04:30:05

End Time:

15:43:30

Capacity: 8000.00 psig

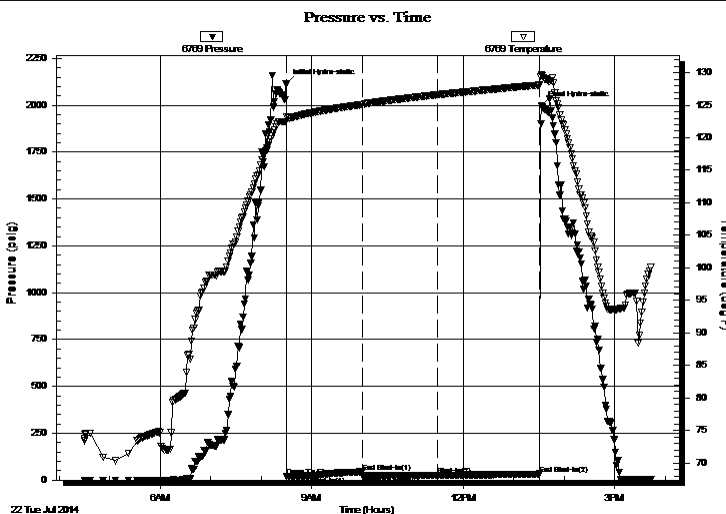
Last Calib.: 2014.07.22

Time On Btm: 2014.07.22 @ 08:30:00

Time Off Btm: 2014.07.22 @ 13:33:00

**TEST COMMENT:** 30-ISI- Blow built to 1/4" died in 24 mins  
60-ISI- No return  
90-FF- No blow  
120-FSI- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2117.37	122.51	Initial Hydro-static
1	20.40	123.14	Open to Flow (1)
30	22.18	123.83	Shut-In(1)
90	44.22	125.10	End Shut-In(1)
91	23.25	125.10	Open To Flow (2)
180	25.36	126.61	Shut-In(2)
301	30.47	128.10	End Shut-In(2)
303	1998.36	129.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	MUD 100%M	0.01

## 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

**2 1s 36w Rawlins KS**

2020 N Bramblewood  
Wichita KS 67206

**Schwerdt 2-2**

Job Ticket: 58432

**DST#: 3**

ATTN: Bryan Bynog

Test Start: 2014.07.22 @ 04:30:00

## 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: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	MUD 100%M	0.015

Total Length: 3.00 ft      Total Volume: 0.015 bbl

Num Fluid Samples: 0

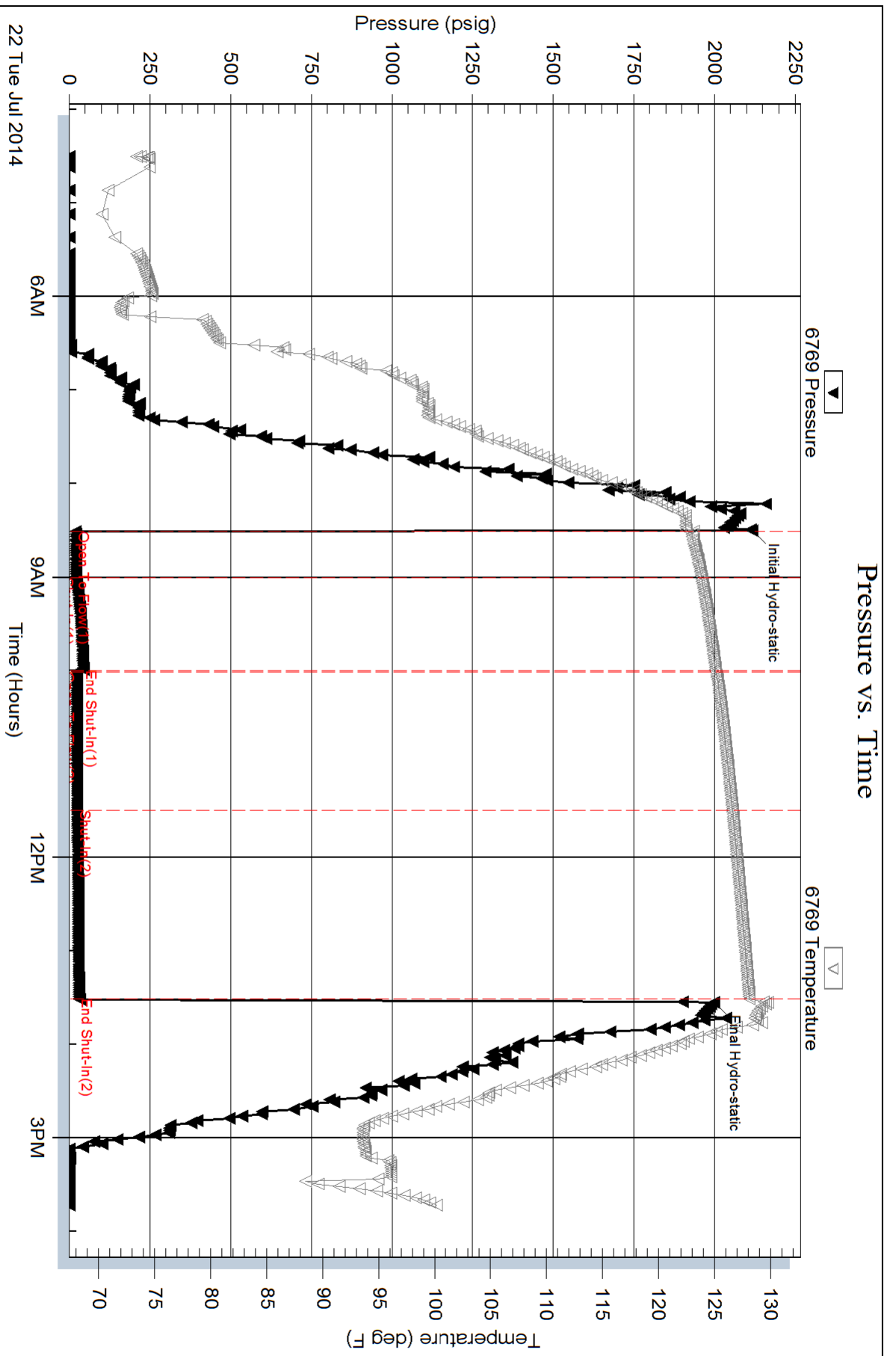
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



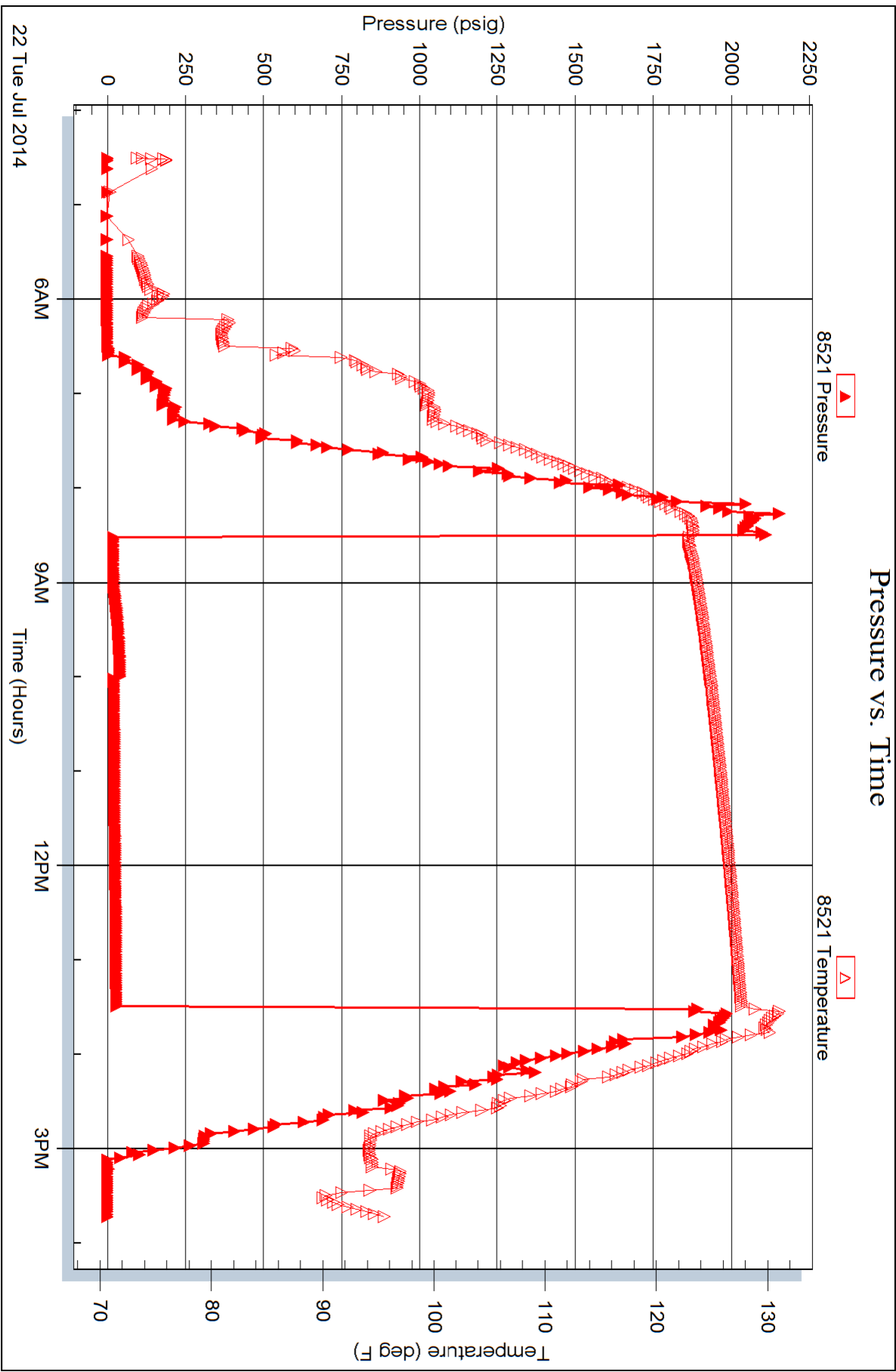
Serial #: 8521

Inside

Berexco LLC

Schw erdt 2-2

DST Test Number: 3







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco LLC

**2 1s 36w Rawlins KS**

2020 N Bramblewood  
Wichita KS 67206

**Schwerdt 2-2**

Job Ticket: 58433

**DST#: 4**

ATTN: Bryan Bynog

Test Start: 2014.07.23 @ 06:40:00

## GENERAL INFORMATION:

Formation: **LKC "D&E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:46:30

Time Test Ended: 17:37:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Robert Zodrow

Unit No: 49

**Interval: 4130.00 ft (KB) To 4230.00 ft (KB) (TVD)**

Total Depth: 4230.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3051.00 ft (KB)

3040.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 6769 Outside**

Press @ Run Depth: 120.73 psig @ 4131.00 ft (KB)

Start Date: 2014.07.23

End Date:

2014.07.23

Start Time: 06:40:05

End Time:

17:37:30

Capacity: 8000.00 psig

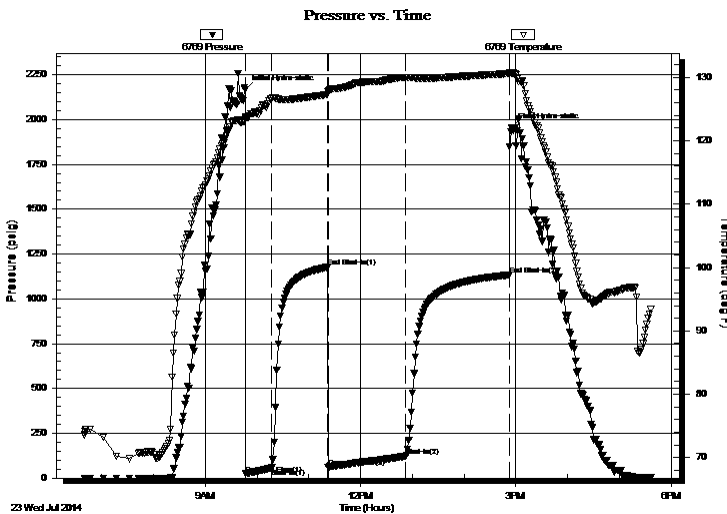
Last Calib.: 2014.07.23

Time On Btm: 2014.07.23 @ 09:46:00

Time Off Btm: 2014.07.23 @ 14:55:00

**TEST COMMENT:** 30-IS- Blow built to 3"  
60-IS- No return  
90-FF- Blow built to 5 1/4"  
120-FS- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2166.66	123.09	Initial Hydro-static
1	23.58	123.43	Open To Flow (1)
31	55.06	126.67	Shut-In(1)
96	1176.01	127.28	End Shut-In(1)
97	58.54	127.74	Open To Flow (2)
187	120.73	129.96	Shut-In(2)
307	1133.61	130.59	End Shut-In(2)
309	1954.04	130.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	ocm 30%o 70%m	0.89
30.00	oil 1%g 99%o	0.15

## 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: Bryan Bynog

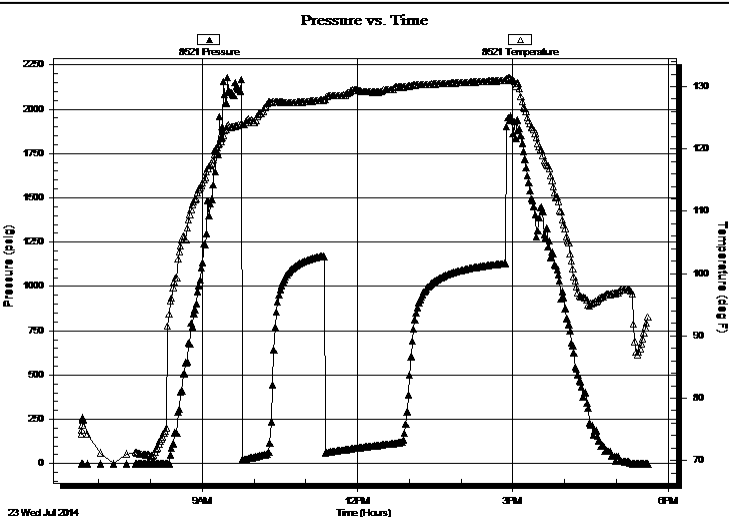
**2 1s 36w Rawlins KS**  
**Schwerdt 2-2**  
 Job Ticket: 58433      **DST#: 4**  
 Test Start: 2014.07.23 @ 06:40:00

### GENERAL INFORMATION:

Formation: <b>LKC "D&amp;E"</b>		
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 09:46:30		Tester: Robert Zodrow
Time Test Ended: 17:37:30		Unit No: 49
<b>Interval: 4130.00 ft (KB) To 4230.00 ft (KB) (TVD)</b>		Reference Elevations: 3051.00 ft (KB)
Total Depth: 4230.00 ft (KB) (TVD)		3040.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 11.00 ft

<b>Serial #: 8521</b>	<b>Inside</b>		
Press@RunDepth:                    psig @	4131.00 ft (KB)	Capacity:	8000.00 psig
Start Date:                            2014.07.23	End Date:                            2014.07.23	Last Calib.:	2014.07.23
Start Time:                            06:40:05	End Time:                            17:37:30	Time On Btm:	
		Time Off Btm:	

**TEST COMMENT:** 30-IF- Blow built to 3"  
 60-ISI- No return  
 90-FF- Blow built to 5 1/4"  
 120-FSI- No return



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
180.00	ocm 30%o 70%m	0.89
30.00	oil 1%g 99%o	0.15

### 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

**2 1s 36w Rawlins KS**

2020 N Bramblewood  
Wichita KS 67206

**Schwerdt 2-2**

Job Ticket: 58433

**DST#: 4**

ATTN: Bryan Bynog

Test Start: 2014.07.23 @ 06:40:00

## 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:

ppm

Viscosity: 89.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	ocm 30%o 70%m	0.885
30.00	oil 1%g 99%o	0.148

Total Length: 210.00 ft

Total Volume: 1.033 bbl

Num Fluid Samples: 0

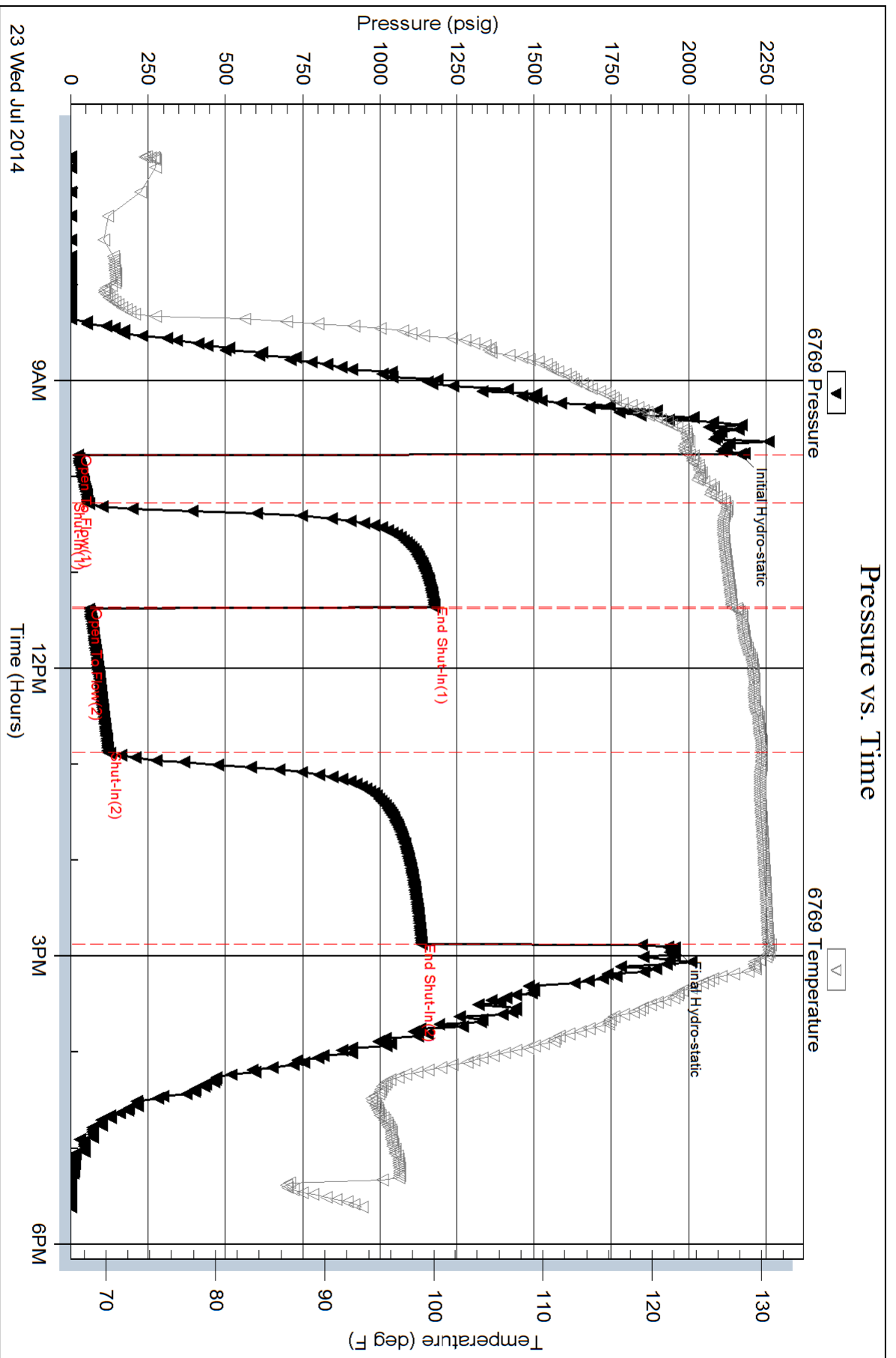
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



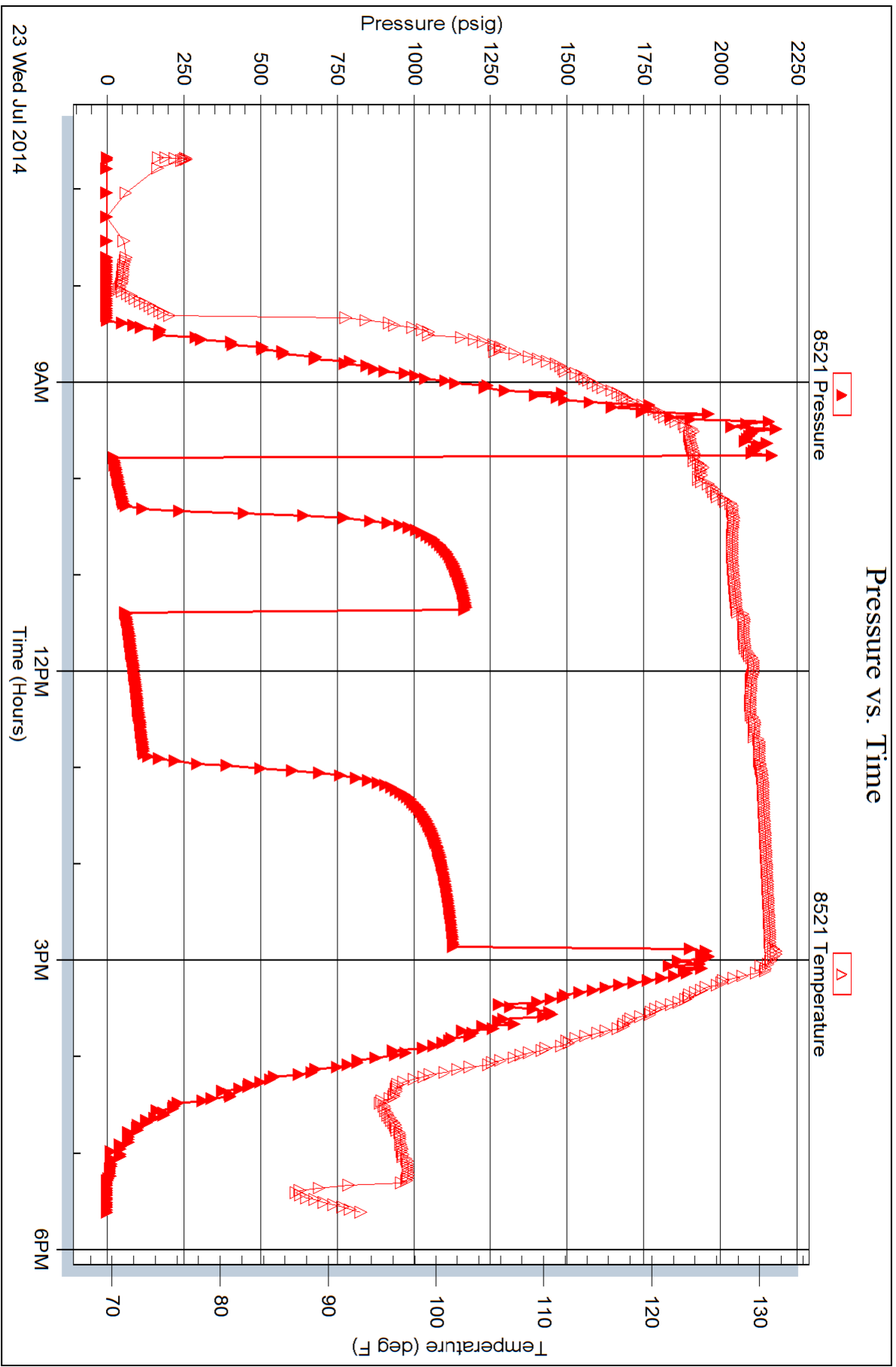
Serial #: 8521

Inside

Berexco LLC

Schw erdt 2-2

DST Test Number: 4



# ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. # 20-8651475

063510  
AUG 09

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Oakley

DATE <u>7-25-14</u>	SEC <u>2</u>	TWP. <u>15</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION <u>8:00 AM</u>	JOB START <u>6:00 PM</u>	JOB FINISH <u>3:00 PM</u>
Schwerdt				WELL# <u>2-2</u>	LOCATION <u>Beardsley NTO AP</u>	COUNTY <u>Rawlins</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)				WTRD 7 NTO 00 2W + NINTO			

CONTRACTOR Berexco 10 OWNER same

TYPE OF JOB Production

HOLE SIZE 7 7/8 T.D. 4380'

CASING SIZE 5 1/2 DEPTH 4381'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 42'

CEMENT LEFT IN CSG. 42'

PERFS.

DISPLACEMENT 103.56 BBL

EQUIPMENT

PUMP TRUCK CEMENTER Andrew Furst

# 431 HELPER Brandon Williams

BULK TRUCK DRIVER Wayne Messalle

# 890 DRIVER John (TWS)

BULK TRUCK DRIVER

# 891 DRIVER

CEMENT

AMOUNT ORDERED 450 sks Lite 3/4" flo-seal

250 sks com 10% salt 2 1/2" gel

5" Gilsonite

COMMON 250 sks @ 17.90 4475.00

POZMIX @

GEL 470 # @ 1.05 493.50

CHLORIDE @

ASC @

Lite 450 sks @ 19.89 8950.50

@

Gilsonite 125 # @ .98 122.50

@

salt 1300 # @ .68 884.00

@

Flo-seal 338 # @ 2.97 1003.86

@

HANDLING 824.89 @ 2.48 2045.22

MILEAGE 2.25 @ 134.22 4705.35

)(4938.10 / 31%) TOTAL

REMARKS:

Plug in H 10 sks RH 15 sks mix 425 sks  
Lite 250 sks com, wash pump and line  
Clean, displace plug 1600' lift  
Land plug 2000' float held  
Cement did not circulate

Thank you

CHARGE TO: Berexco

STREET

CITY STATE ZIP

To: Allied Oil & Gas Services, L.L.C.  
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 4381'

PUMP TRUCK CHARGE 275.25

EXTRA FOOTAGE @

MILEAGE 50 miles @ 7.70 385.00

MANIFOLD head @ 275.00 N/C

Light vehicle @ 440 N/C

@

(3069.33 / 31%)

TOTAL 2,901.22

PLUG & FLOAT EQUIPMENT

5/2  
1 Abu float shoe @ 575.00

1 Latch down plug Assy @ 660.00

10 Centralizers @ 57.00 570.00

20 scratchers @ 89.00 1780.00

@

(1103.00 / 31%)

TOTAL 3,553.00

SALES TAX (If Any)

TOTAL CHARGES 29,376.08

DISCOUNT 7,109.60 IF PAID IN 30 DAYS

22,266.37 Net

**Berexco, LLC  
Schwerdt #2-2  
NENWNE Section 2 1S-36W  
Rawlins County, Kansas**

**GEOLOGIST  
William B. Bynog**

## RESUME

OPERATOR: Berexco, LLC.

WELL NAME & NUMBER: Schwerdt #2-2

LOCATION: NENWNE Section 2 1S-36W

COUNTY: Rawlins

STATE: Kansas

SPUD DATE: 7-16-2014 COMPLETION DATE: 7-25-2014

ELEVATIONS: GL: 3045 KB: 3056

CONTRACTOR: Beredco Drilling Rig 10

LOGS: PIONEER TYPES: Rag, Micro log

WELLSITE ENGINEER: NONE

MUD COMPANY: Morgan Mud

MUD TYPE & ENGINEER: Fresh Chemical

GEOLOGIST: William B. Bynog

HOLE SIZE: 7 7/8

MUD LOGGING BY: NONE

DRILL STEM TEST COMPANY: Trilobite

DRILL STEM TEST: DST#1 3940-4040, DST#2 4030-4090,  
DST#3 4075-4145, DST#4 4130-4230

WELL STATUS: Ran 5 ½ Production Casing



## DISCUSSION

Schwerdt #2-2 1S-36W is a southwestern extension of Scoda field drilled a total depth of 4380 feet testing the Lansing Kansas City formation in Rawlins County, Kansas. This well was drilled with the help of seismic data and well control.

Structurally, Schwerdt #2-2 1S-36W came in one foot high to the prognosis and six feet low to Penny #12-31 1S-35W, a productive well.

There were no quality sample shows or porosity development up hole in the Foraker or Douglas sand as in Penny #12-31, due to the structural relationship. The first quality sample show was in the Lansing A zone with poor to fair porosity development. The A zone was tested on Drill stem test #1 recovering only two feet of mud with low pressures due to past production. The B zone had fair sample shows with poor porosity development and was tested on drill stem test #2 recovering only five feet of mud. Drill stem test #2 had poor flow pressure but good shut-in pressure suggesting some permeability, perhaps treatable. Drill stem test #3 on the C zone recovered only three feet of mud with very low pressures due to production in the area. The E zone had good sample shows and poor to fair porosity development. Drill stem test #4 on the E zone recovered 30 feet of clean oil and 180 feet of oil cut mud (30% oil) with virgin pressures.

Logs agreed with sample evaluation recording poor to fair porosity development with fair resistivity in the Lansing Kansas City zones. The Lansing Kansas City zones were tight, testing small amounts of mud with the exception of the E zone.

A decision was made to run 5 ½ production casing based on a favorable drill stem test on the E zone and log calculations.

Schwerdt #2-2. Sample Descriptions  
BEREDCO DRILLING RIG 10 DRILLING 7 7/8 HOLE

3500-88 SHALE red, soft, silty, very argillaceous in part

FORAKER

3588-3600 LIMESTONE white, pale gray, slightly hard, chalky, argillaceous, sandy in part, poor porosity, very rare black dead stain

3600-30 LIMESTONE pale gray, slightly hard, dirty, argillaceous, sandy in part, poor porosity, no shows with thin SHALE as above

3630-50 SHALE red, very soft, very argillaceous

3650-65 LIMESTONE white, firm, very chalky, poor vis porosity, no shows

3665-3700 SHALE as above

3700-10 LIMESTONE pale gray, firm, dirty, argillaceous, slightly chalky, no shows

3710-60 Shale red, very soft, very argillaceous, gummy with thin LIMESTONE as above

3760-70 LIMESTONE buff, hard, blocky, dense, poor porosity, no shows

3770-90 SHALE as above very argillaceous

TOPEKA

## Schwerdt #2-2.Sample Descriptions

3790-3608 LIMESTONE buff,pale yell,very hard,dense,blocky,chalky in part,poor porosity,no shows

3608-15 SHALE as above

3815-33 LIMESTONE buff,pale yell, slightly hard to very hard,dense to subchalky in part,poor porosity,no shows with thin SHALE as above

3833-50 SANDSTONE pale orange, friable, very fine grained, poor vis porosity, no shows

3850-80 SHALE red, firm, blocky, britt in part

3880-94 LIMESTONE buff,pale yell,very hard,slightly fossils,dense,blocky,no shows

3894-3911 SHALE as above

OREAD

3911-22 GRAINSTONE white, firm, very oolitic, chalky, poor to fair intgranular porosity, spotty black dead stain, no free oil

3922-40 LIMESTONE white, buff, very hard, dense, blocky, poor porosity, no shows

3940-60 LIMESTONE pale gray, hard, blocky, dense, argillaceous

## Schwerdt #2-2.Sample Descriptions

3960-80 SHALE dark gray,black,hard,blocky, carbonaceous, fissile in part, with thin LIMESTONE as above

3980-90 SHALE as above with thin SANDSTONE gray, friable,very fine grained,clay filled,poor porosity,no shows

3990-4012 SHALE red,soft,very argillaceous

LANSING A

4012-24 GRAINSTONE buff, firm,very oolitic,fair oomoldic porosity,spotty to even live brown stain,very good cut,good show free oil

4024-30 LIMESTONE buff,hard,dense,poor porosity,no shows

4030-32 LIMESTONE buff,hard,oolitic,poor to fair oomoldic porosity,spotty live brown stain,good cut,fair show free oil

4032-38 SANDSTONE white,friable,very fine grained,clay filled,poor to fair intg porosity,spotty live brown stain,fair cut with thin SHALE as above

4038-64 SHALE red,soft,very argillaceous

B

4064-76 GRAINSTONE white,firm,very oolitic,slightly chalky,poor to fair intergranular porosity,spotty to even live brown stain,good cut,poor show free oil

Schwerdt #2-2. Sample Descriptions

4076-84 LIMESTONE buff,hard,dense, blocky,no shows

4084-4118 SHALE green,red,firm,britt, waxy in part

C

4118-22 LIMESTONE white,firm,slightly oolitic, chalky in part,poor to fair intg and pinpoint vuggy porosity,spotty live brown stain,good cut,fine show free oil

4122-40 LIMESTONE pale gray,very hard, dense,chalky in part,trace Chert tan,no shows

4140-67 SHALE red,slightly hard,britt

D

4167-74 LIMESTONE buff,hard,blocky, dense,chalky in part,poor porosity,trace black dead stain,no free oil

4174-82 LIMESTONE buff,pale gray,very hard,dense,no shows

4182-90 SHALE green,firm,argillaceous,waxy in part

4190-4207 SHALE red,firm,fissile

E

4207-12 GRAINSTONE white,buff,slightly hard,fossils,chalky in part,poor intg and pinpoint porosity,very spotty live brown stain,fair cut,no free oil

## Schwerdt #2-2.Sample Descriptions

4212-22 LIMESTONE buff,very hard,dense, blocky,no shows

4222-50 SHALE green,red,firm,as above

F

4250-70 LIMESTONE buff,hard,blocky, dense,no shows with thin SHALE as above

4270-4350 SHALE as above with thin LIMESTONE as above

4350-60 LIMESTONE buff,hard,dense, blocky,no shows

4366-80 SHALE as above

RTD 4380'

LTD 4382'