

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. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
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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	Carmen Schmitt, Inc.
Well Name	KARLIN 1
Doc ID	1470140

Tops

Name	Top	Datum
Anhydrite	2383	507
Heebner Shale	3904	-1014
Toronto	3917	-1027
Lansing/KC	3941	-1051
B KC	4211	-1321
Marmaton	4238	-1348
Pawnee	4331	-1441
Ft Scott	4403	-1513
Cherokee	4331	-1441
Mississippian	4488	-1598



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc.**

PO Box 47
Great Bend KS 67530

ATTN: Brad Rine

Karlin #1

13-11s-30w Gove,KS

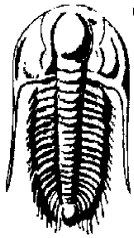
Start Date: 2019.08.24 @ 22:08:15

End Date: 2019.08.25 @ 05:42:00

Job Ticket #: 64845 DST #: 1

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

Printed: 2019.08.29 @ 11:47:50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt Inc.
PO Box 47
Great Bend KS 67530
ATTN: Brad Rine

13-11s-30w Gove,KS
Karlin #1
Job Ticket: 64845 **DST#: 1**
Test Start: 2019.08.24 @ 22:08:15

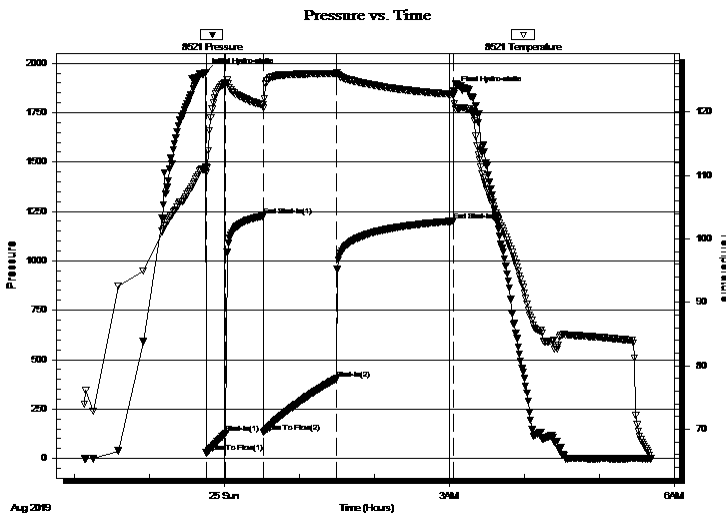
GENERAL INFORMATION:

Formation: **LKC E**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:45:30
Time Test Ended: 05:42:00
Interval: **4004.00 ft (KB) To 4024.00 ft (KB) (TVD)**
Total Depth: 4024.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Mike Roberts
Unit No: 81
Reference Elevations: 2890.00 ft (KB)
2880.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8521 Inside
Press@RunDepth: 403.99 psig @ 4005.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.08.24 End Date: 2019.08.25 Last Calib.: 2019.08.25
Start Time: 22:08:15 End Time: 05:42:00 Time On Btm: 2019.08.24 @ 23:45:15
Time Off Btm: 2019.08.25 @ 03:03:45

TEST COMMENT: IF: Built to 3" blow
IS: No return blow
FF: BOB in 13 min. Built to 40" blow
FS: Very weak surface blow that died in 15 min.

PRESSURE SUMMARY



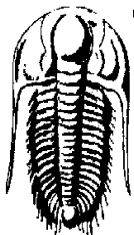
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1953.37	111.32	Initial Hydro-static
1	29.19	110.39	Open To Flow (1)
16	127.72	124.62	Shut-In(1)
46	1226.09	121.10	End Shut-In(1)
46	132.99	120.59	Open To Flow (2)
105	403.99	126.03	Shut-In(2)
198	1201.31	122.72	End Shut-In(2)
199	1862.42	122.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	free oil 100%o	0.14
330.00	ocw m 5%o 45%w 50%m	4.63
248.00	ocw 5%o 95%w	3.48
310.00	sw 100% sw	4.35

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt Inc.
PO Box 47
Great Bend KS 67530
ATTN: Brad Rine

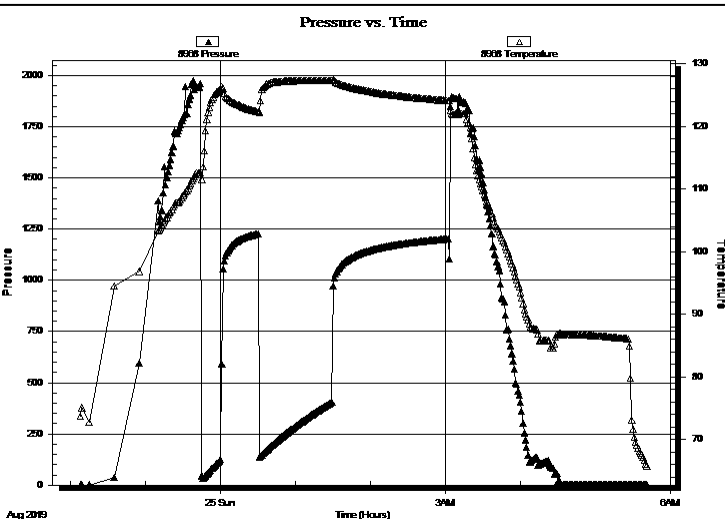
13-11s-30w Gove,KS
Karlin #1
Job Ticket: 64845 **DST#: 1**
Test Start: 2019.08.24 @ 22:08:15

GENERAL INFORMATION:

Formation: LKC E		
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 23:45:30		Tester: Mike Roberts
Time Test Ended: 05:42:00		Unit No: 81
Interval: 4004.00 ft (KB) To 4024.00 ft (KB) (TVD)		Reference Elevations: 2890.00 ft (KB)
Total Depth: 4024.00 ft (KB) (TVD)		2880.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 10.00 ft

Serial #: 8968	Outside			
Press@RunDepth: psig @	4005.00 ft (KB)	Capacity:	8000.00 psig	
Start Date: 2019.08.24	End Date: 2019.08.25	Last Calib.:	2019.08.25	
Start Time: 22:08:15	End Time: 05:42:00	Time On Btm:		
		Time Off Btm:		

TEST COMMENT: IF: Built to 3" blow
IS: No return blow
FF: BOB in 13 min. Built to 40" blow
FS: Very weak surface blow that died in 15 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	free oil 100%o	0.14
330.00	ocw m 5%o 45%w 50%m	4.63
248.00	ocw 5%o 95%w	3.48
310.00	sw 100% sw	4.35

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc.
PO Box 47
Great Bend KS 67530
ATTN: Brad Rine

13-11s-30w Gove,KS
Karlin #1
Job Ticket: 64845 **DST#: 1**
Test Start: 2019.08.24 @ 22:08:15

Tool Information

Drill Pipe:	Length: 3993.00 ft	Diameter: 3.80 inches	Volume: 56.01 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 56.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4004.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3977.00	
Shut In Tool	5.00			3982.00	
Hydraulic tool	5.00			3987.00	
Jars	5.00			3992.00	
Safety Joint	3.00			3995.00	
Packer	5.00			4000.00	28.00 Bottom Of Top Packer
Packer	4.00			4004.00	
Stubb	1.00			4005.00	
Recorder	0.00	8968	Outside	4005.00	
Recorder	0.00	8521	Inside	4005.00	
Perforations	14.00			4019.00	
Bullnose	5.00			4024.00	20.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc.
PO Box 47
Great Bend KS 67530
ATTN: Brad Rine

13-11s-30w Gove,KS
Karlin #1
Job Ticket: 64845 **DST#: 1**
Test Start: 2019.08.24 @ 22:08:15

Mud and Cushion Information

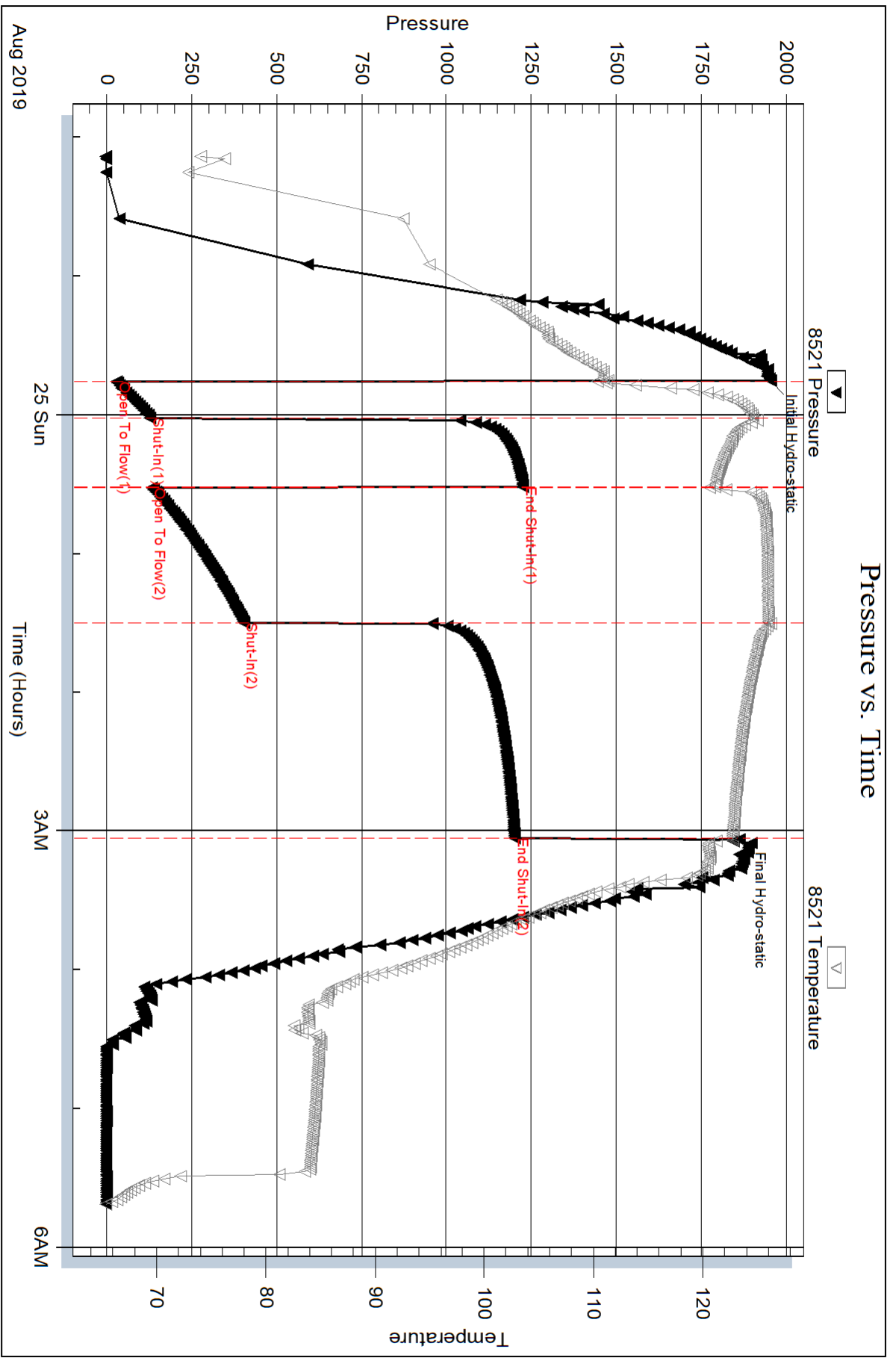
Mud Type: Gel Chem	Cushion Type:	Oil API: 60 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 10000 ppm
Viscosity: 40.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.17 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1500.00 ppm		
Filter Cake: 1.00 inches		

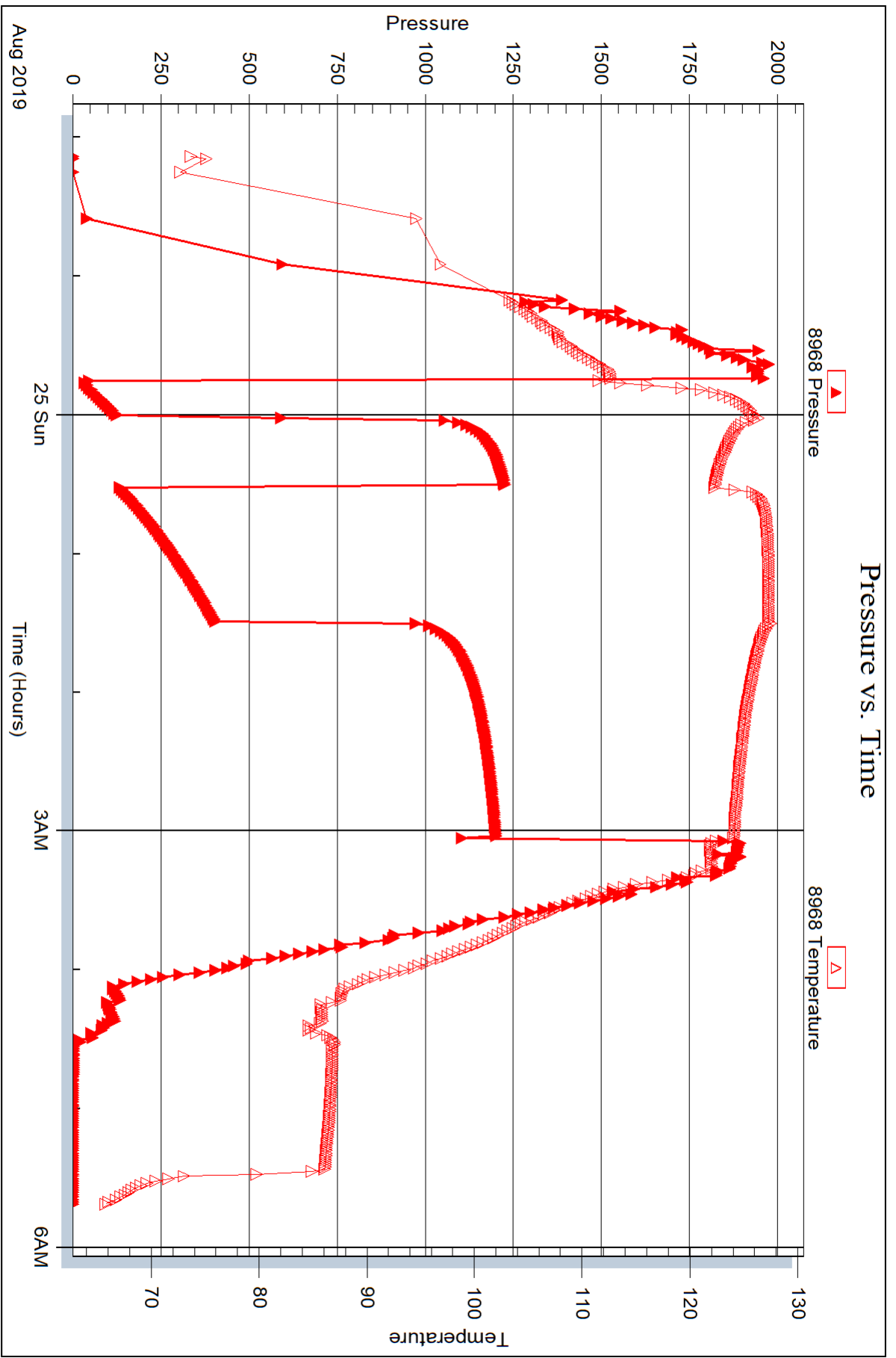
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	free oil 100%o	0.140
330.00	ocw m 5%o 45%w 50%m	4.629
248.00	ocw 5%o 95%w	3.479
310.00	sw 100% sw	4.348

Total Length: 898.00 ft Total Volume: 12.596 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: API= 29@ 70 corrected to 28
 RW= .847@ 58.8= 10,000 ppm







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc.**

PO Box 47
Great Bend KS 67530

ATTN: Brad Rine

Karlin #1

13-11s-30w Gove,KS

Start Date: 2019.08.26 @ 07:58:15

End Date: 2019.08.26 @ 12:23:00

Job Ticket #: 64846 DST #: 2

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

Printed: 2019.08.29 @ 11:12:59



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt Inc.
 PO Box 47
 Great Bend KS 67530
 ATTN: Brad Rine

13-11s-30w Gove,KS
Karlin #1
 Job Ticket: 64846 **DST#: 2**
 Test Start: 2019.08.26 @ 07:58:15

GENERAL INFORMATION:

Formation: **LKC H - I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:38:00
 Time Test Ended: 12:23:00
 Interval: **4057.00 ft (KB) To 4125.00 ft (KB) (TVD)**
 Total Depth: 4125.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 2890.00 ft (KB)
 2880.00 ft (CF)
 KB to GR/CF: 10.00 ft

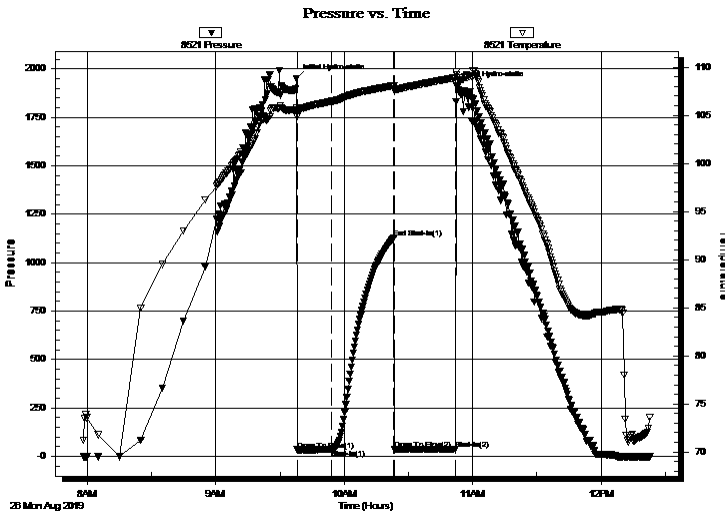
Serial #: 8521

Inside

Press@RunDepth: 35.10 psig @ 4096.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.08.26 End Date: 2019.08.26 Last Calib.: 2019.08.26
 Start Time: 07:58:15 End Time: 12:23:00 Time On Btm: 2019.08.26 @ 09:37:45
 Time Off Btm: 2019.08.26 @ 10:52:30

TEST COMMENT: IF: Built to 3/4" blow and died back to 1/2" blow
 IS: No return blow
 FF: Built to weak surface blow
 FS: Pulled test

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1950.79	105.79	Initial Hydro-static
1	33.82	104.85	Open To Flow (1)
17	35.10	106.44	Shut-In(1)
46	1126.46	108.10	End Shut-In(1)
46	36.46	107.52	Open To Flow (2)
74	37.92	108.90	Shut-In(2)
75	1911.50	109.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100% m ...oil spots in tool	0.14

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc.
PO Box 47
Great Bend KS 67530
ATTN: Brad Rine

13-11s-30w Gove,KS
Karlin #1
Job Ticket: 64846 **DST#: 2**
Test Start: 2019.08.26 @ 07:58:15

Tool Information

Drill Pipe:	Length: 4056.00 ft	Diameter: 3.80 inches	Volume: 56.90 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 56.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4057.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	96.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			4030.00	
Shut In Tool	5.00			4035.00	
Hydraulic tool	5.00			4040.00	
Jars	5.00			4045.00	
Safety Joint	3.00			4048.00	
Packer	5.00			4053.00	28.00 Bottom Of Top Packer
Packer	4.00			4057.00	
Stubb	1.00			4058.00	
Perforations	4.00			4062.00	
Change Over Sub	1.00			4063.00	
Drill Pipe	32.00			4095.00	
Change Over Sub	1.00			4096.00	
Recorder	0.00	8968	Outside	4096.00	
Recorder	0.00	8521	Inside	4096.00	
Perforations	24.00			4120.00	
Bullnose	5.00			4125.00	68.00 Bottom Packers & Anchor
Total Tool Length:	96.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc.

13-11s-30w Gove,KS

PO Box 47
Great Bend KS 67530

Karlin #1

Job Ticket: 64846

DST#: 2

ATTN: Brad Rine

Test Start: 2019.08.26 @ 07:58:15

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: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	mud 100% m ...oil spots in tool	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbf

Num Fluid Samples: 0

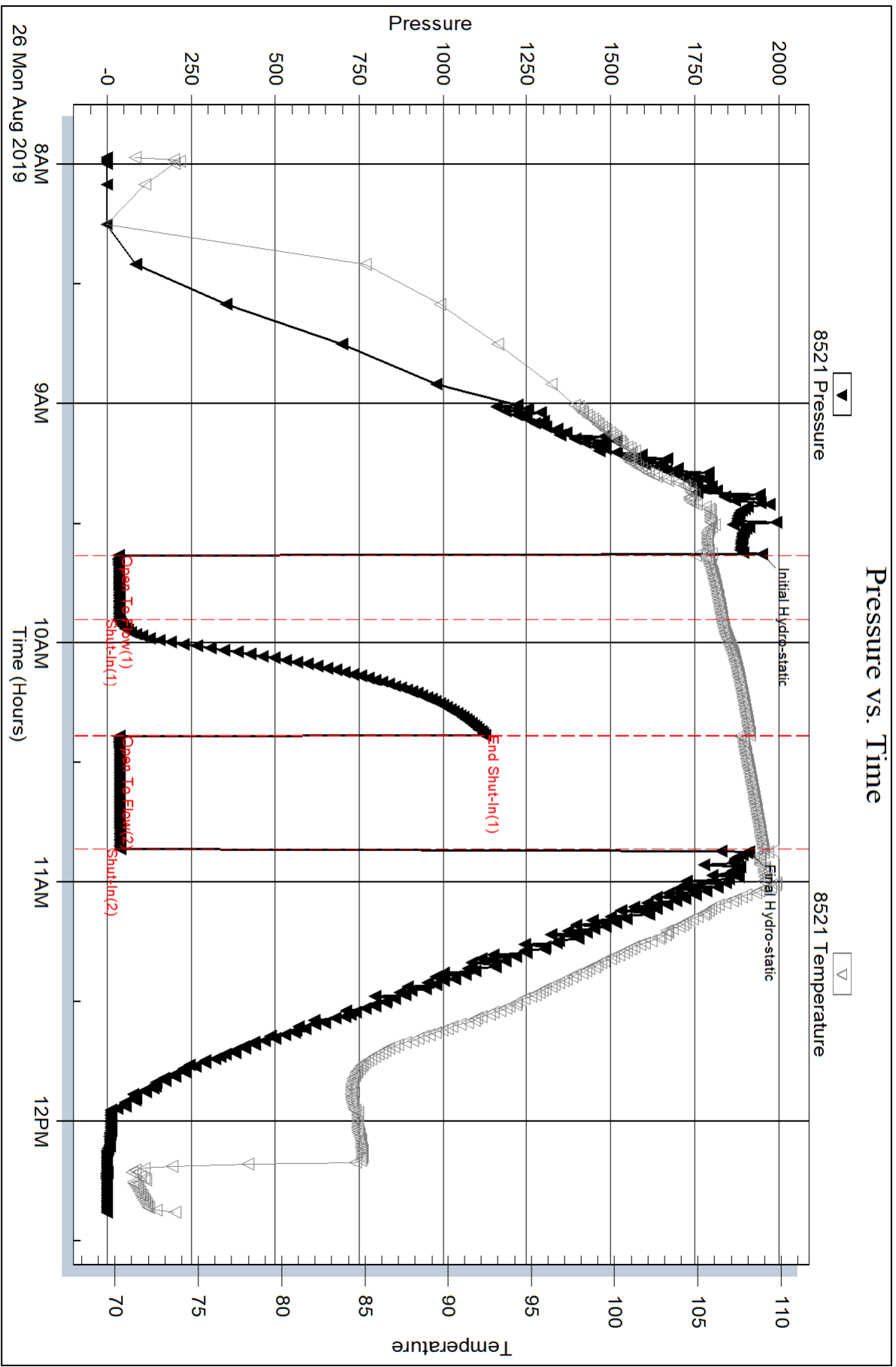
Num Gas Bombs: 0

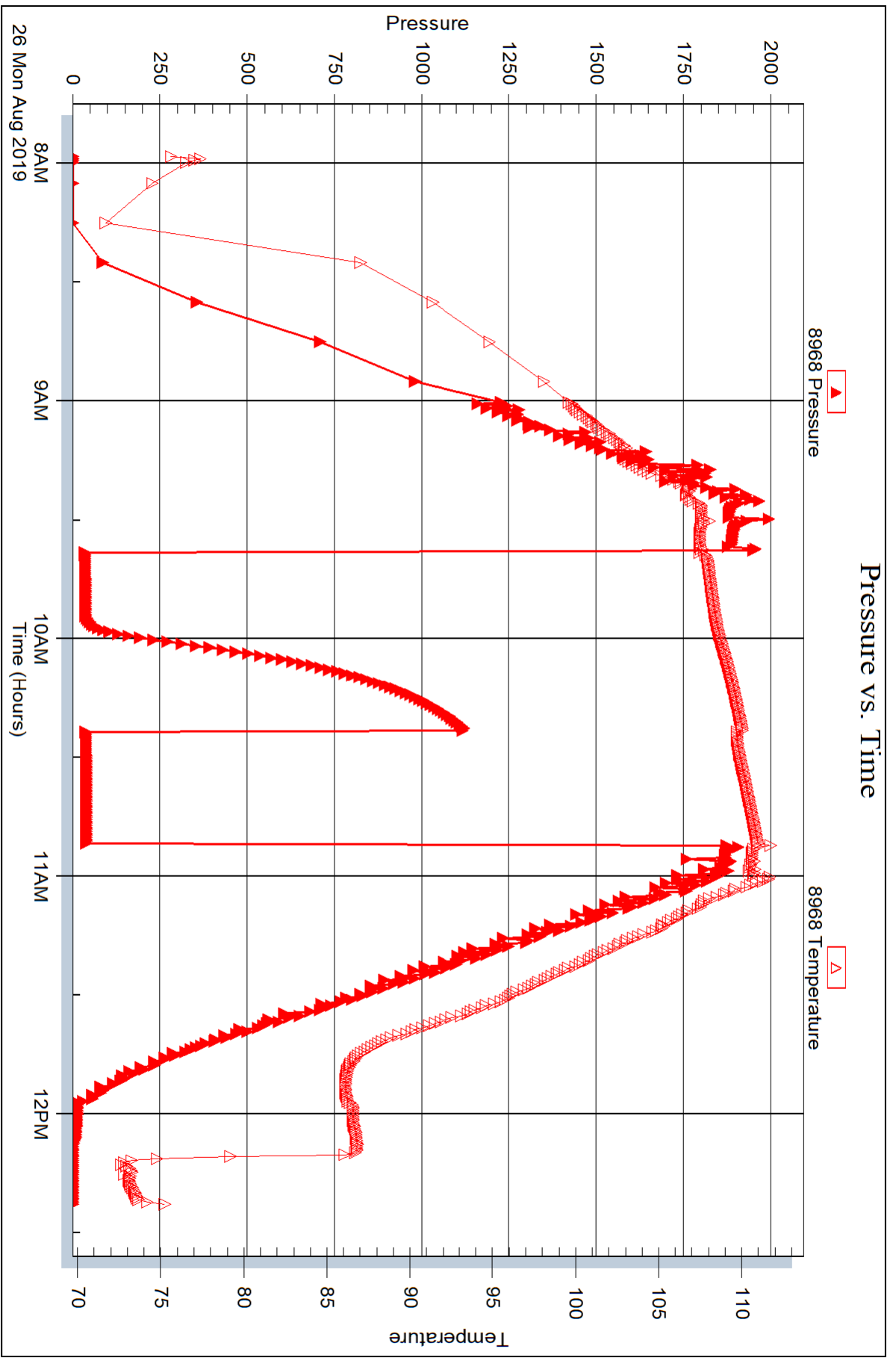
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc.**

PO Box 47
Great Bend KS 67530

ATTN: Brad Rine

Karlin #1

13-11s-30w Gove,KS

Start Date: 2019.08.26 @ 01:25:15

End Date: 2019.08.26 @ 06:14:15

Job Ticket #: 64847 DST #: 3

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

Printed: 2019.08.29 @ 11:10:26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt Inc.
 PO Box 47
 Great Bend KS 67530
 ATTN: Brad Rine

13-11s-30w Gove,KS
Karlin #1
 Job Ticket: 64847 **DST#: 3**
 Test Start: 2019.08.26 @ 01:25:15

GENERAL INFORMATION:

Formation: **LKC J - K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:24:15
 Time Test Ended: 06:14:15
 Interval: **4122.00 ft (KB) To 4185.00 ft (KB) (TVD)**
 Total Depth: 4185.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 2890.00 ft (KB)
 2880.00 ft (CF)
 KB to GR/CF: 10.00 ft

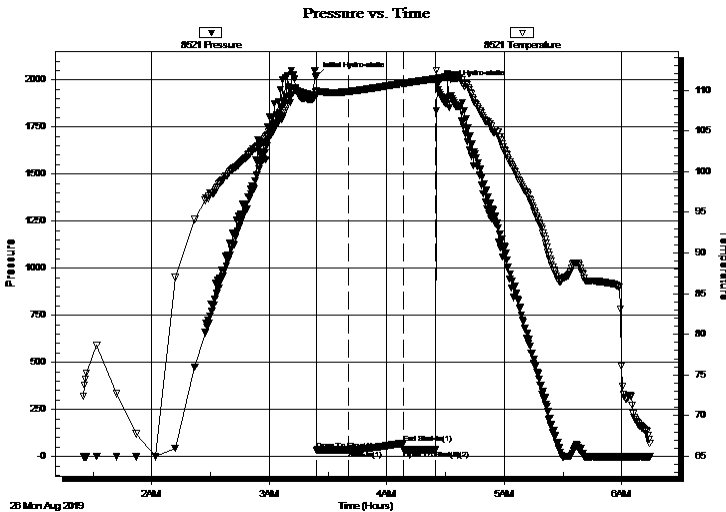
Serial #: 8521

Inside

Press@RunDepth: 35.11 psig @ 4161.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.08.26 End Date: 2019.08.26 Last Calib.: 2019.08.27
 Start Time: 01:25:15 End Time: 06:14:15 Time On Btm: 2019.08.26 @ 03:24:00
 Time Off Btm: 2019.08.26 @ 04:25:45

TEST COMMENT: IF: Built to 3/4" blow
 IS: No return blow
 FF: Very weak surface blow that died in 5 min.
 FS: Pulled test

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2019.51	109.95	Initial Hydro-static
1	34.46	109.39	Open To Flow (1)
17	35.11	109.84	Shut-In(1)
45	71.94	110.86	End Shut-In(1)
45	35.08	110.82	Open To Flow (2)
61	35.14	111.43	Shut-In(2)
62	1972.49	111.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc.
PO Box 47
Great Bend KS 67530
ATTN: Brad Rine

13-11s-30w Gove,KS
Karlin #1
Job Ticket: 64847 **DST#: 3**
Test Start: 2019.08.26 @ 01:25:15

Tool Information

Drill Pipe:	Length: 4122.00 ft	Diameter: 3.80 inches	Volume: 57.82 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 57.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4122.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			4095.00	
Shut In Tool	5.00			4100.00	
Hydraulic tool	5.00			4105.00	
Jars	5.00			4110.00	
Safety Joint	3.00			4113.00	
Packer	5.00			4118.00	28.00 Bottom Of Top Packer
Packer	4.00			4122.00	
Stubb	1.00			4123.00	
Perforations	4.00			4127.00	
Change Over Sub	1.00			4128.00	
Drill Pipe	32.00			4160.00	
Change Over Sub	1.00			4161.00	
Recorder	0.00	8968	Outside	4161.00	
Recorder	0.00	8521	Inside	4161.00	
Perforations	19.00			4180.00	
Bullnose	5.00			4185.00	63.00 Bottom Packers & Anchor
Total Tool Length:	91.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc.
PO Box 47
Great Bend KS 67530
ATTN: Brad Rine

13-11s-30w Gove,KS
Karlin #1
Job Ticket: 64847 **DST#: 3**
Test Start: 2019.08.26 @ 01:25:15

Mud and Cushion Information

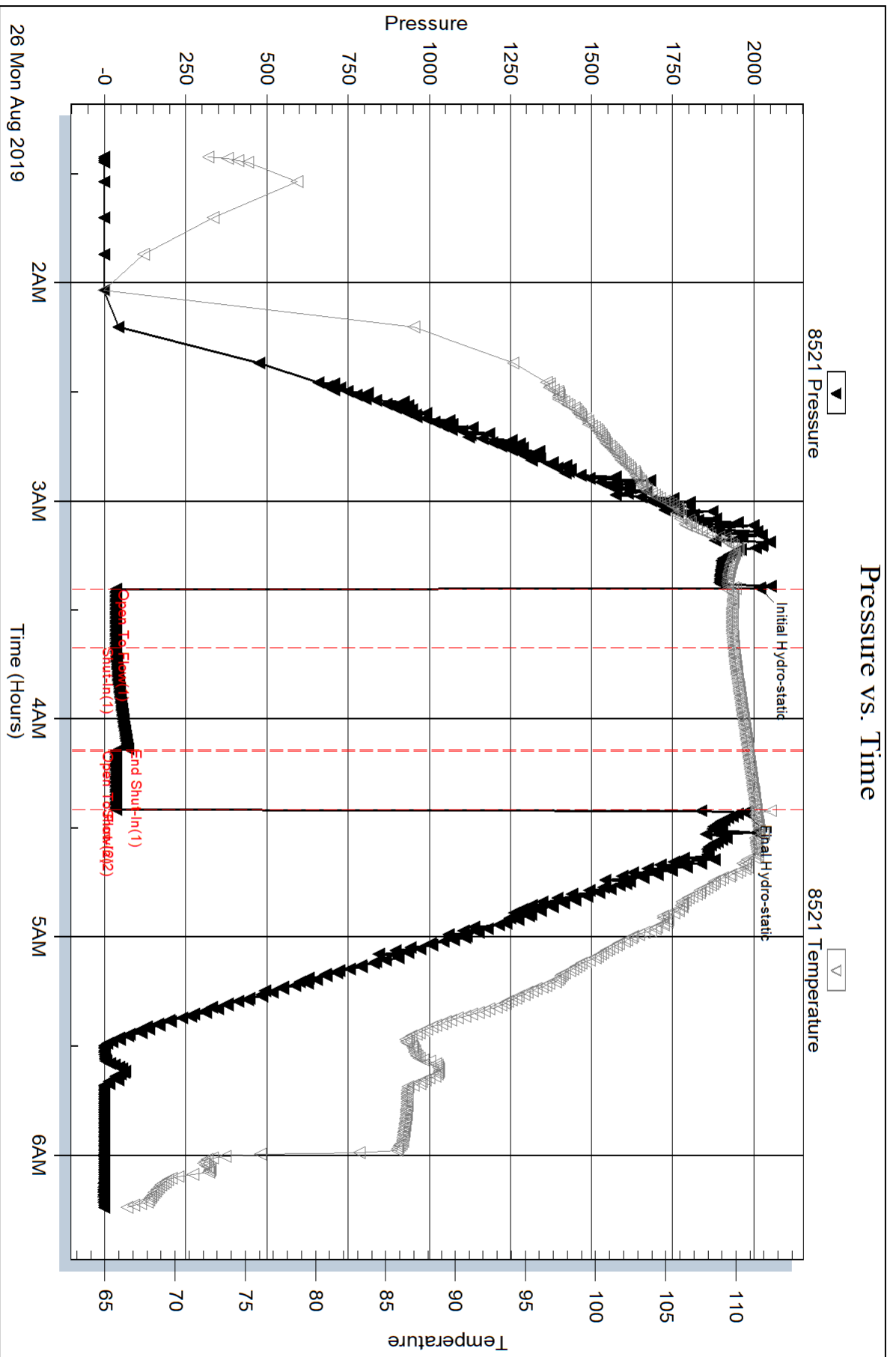
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

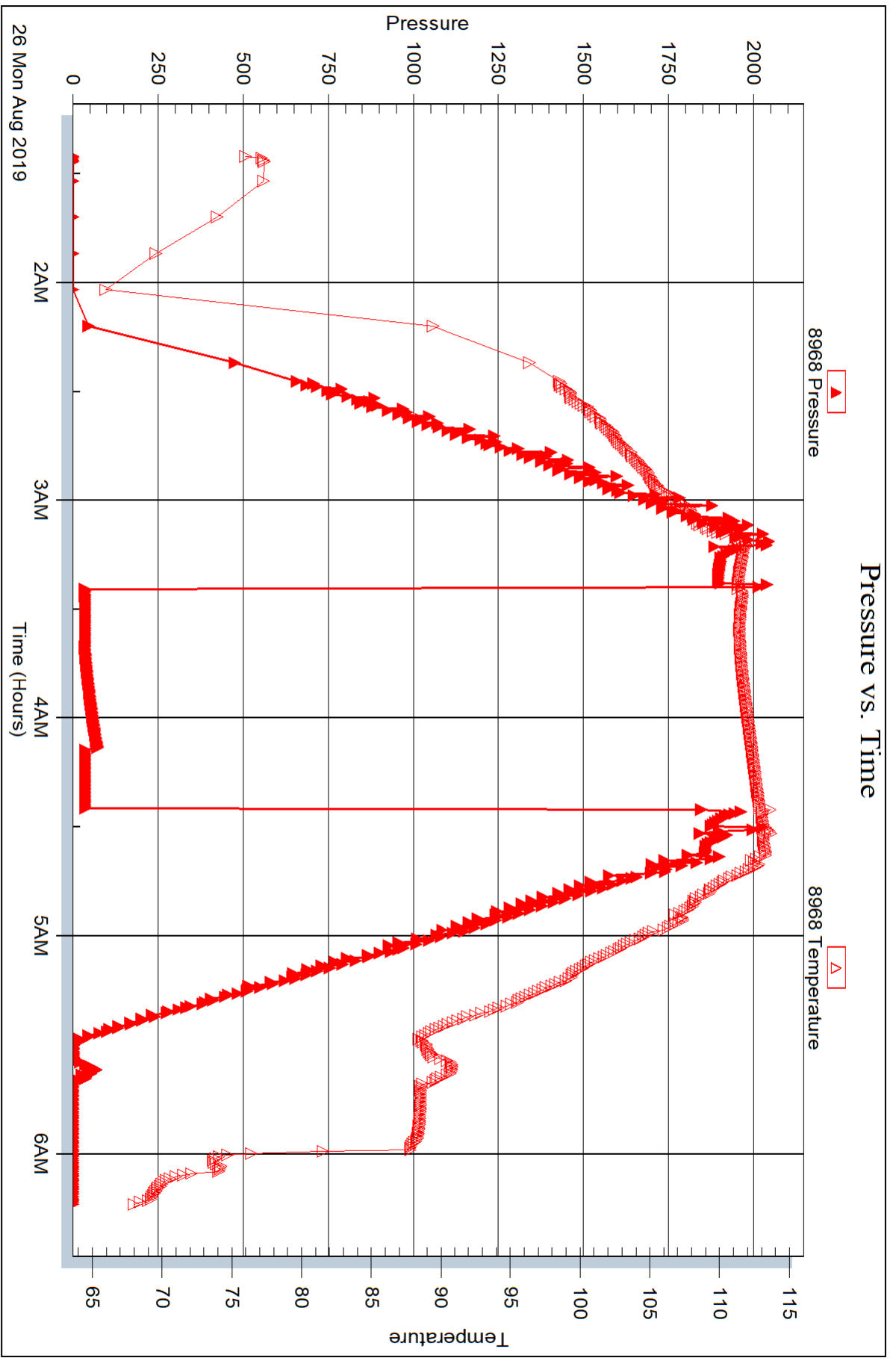
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc.**

PO Box 47
Great Bend KS 67530

ATTN: Brad Rine

Karlin #1

13-11s-30w Gove,KS

Start Date: 2019.08.27 @ 14:28:15

End Date: 2019.08.27 @ 18:36:15

Job Ticket #: 64848 DST #: 4

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

Printed: 2019.08.29 @ 11:09:49



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt Inc.
PO Box 47
Great Bend KS 67530
ATTN: Brad Rine

13-11s-30w Gove,KS
Karlin #1
Job Ticket: 64848 **DST#: 4**
Test Start: 2019.08.27 @ 14:28:15

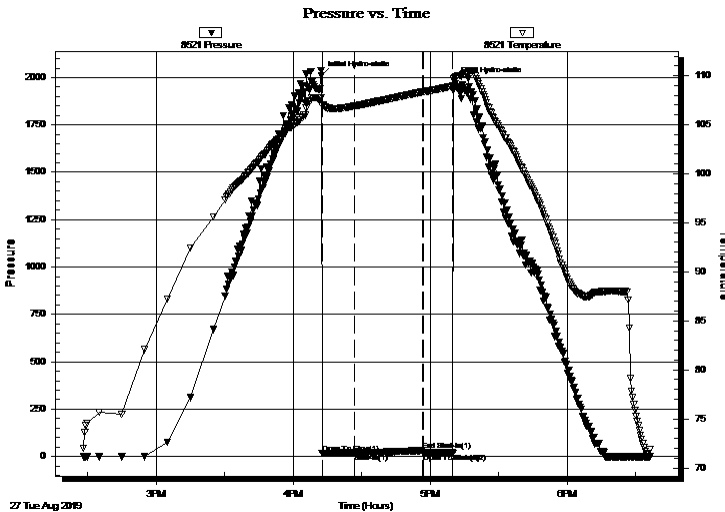
GENERAL INFORMATION:

Formation: **LKC L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:12:45
Time Test Ended: 18:36:15
Interval: **4180.00 ft (KB) To 4220.00 ft (KB) (TVD)**
Total Depth: 4220.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 81
Reference Elevations: 2890.00 ft (KB)
2880.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8521 Inside
Press@RunDepth: 18.87 psig @ 4181.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.08.27 End Date: 2019.08.27 Last Calib.: 2019.08.27
Start Time: 14:28:15 End Time: 18:36:15 Time On Btm: 2019.08.27 @ 16:12:30
Time Off Btm: 2019.08.27 @ 17:10:45

TEST COMMENT: IF: Built to 3/4" blow
IS: No return blow
FF: Very weak surface blow
FS: Pulled test

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2009.71	107.78	Initial Hydro-static
1	16.89	106.92	Open To Flow (1)
15	18.87	106.91	Shut-In(1)
45	31.47	108.36	End Shut-In(1)
45	18.09	108.36	Open To Flow (2)
58	18.25	108.94	Shut-In(2)
59	1977.74	109.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100% m	0.04

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc.
PO Box 47
Great Bend KS 67530
ATTN: Brad Rine

13-11s-30w Gove,KS
Karlin #1
Job Ticket: 64848 **DST#: 4**
Test Start: 2019.08.27 @ 14:28:15

Tool Information

Drill Pipe:	Length: 4184.00 ft	Diameter: 3.80 inches	Volume: 58.69 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 58.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4180.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			4153.00	
Shut In Tool	5.00			4158.00	
Hydraulic tool	5.00			4163.00	
Jars	5.00			4168.00	
Safety Joint	3.00			4171.00	
Packer	5.00			4176.00	28.00 Bottom Of Top Packer
Packer	4.00			4180.00	
Stubb	1.00			4181.00	
Recorder	0.00	8968	Outside	4181.00	
Recorder	0.00	8521	Inside	4181.00	
Perforations	34.00			4215.00	
Bullnose	5.00			4220.00	40.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc.
PO Box 47
Great Bend KS 67530
ATTN: Brad Rine

13-11s-30w Gove,KS
Karlin #1
Job Ticket: 64848 **DST#: 4**
Test Start: 2019.08.27 @ 14:28:15

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100% m	0.042

Total Length: 3.00 ft Total Volume: 0.042 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

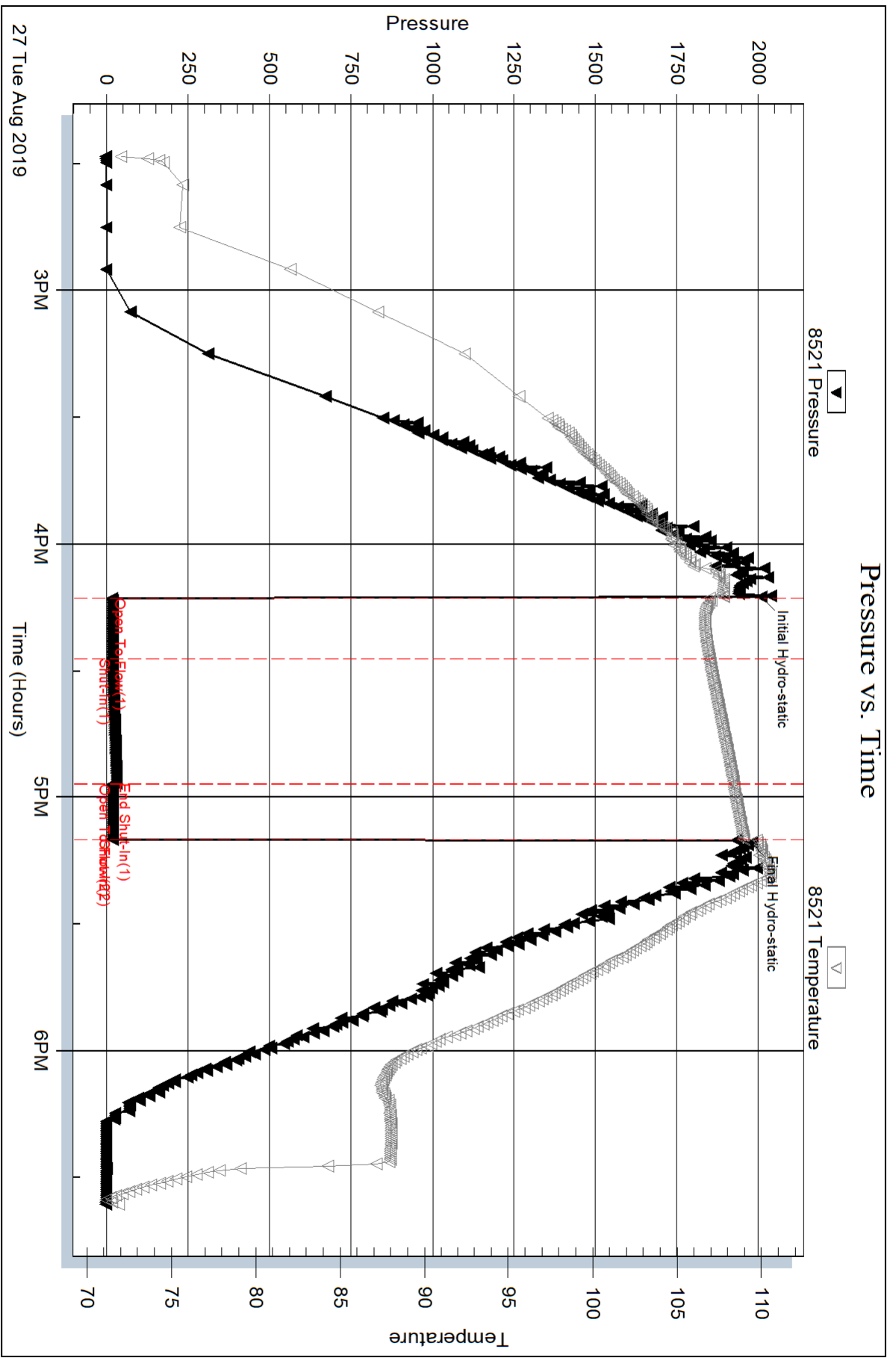
Serial #: 8521

Inside

Carmen Schmitt Inc.

Karlin #1

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 64848

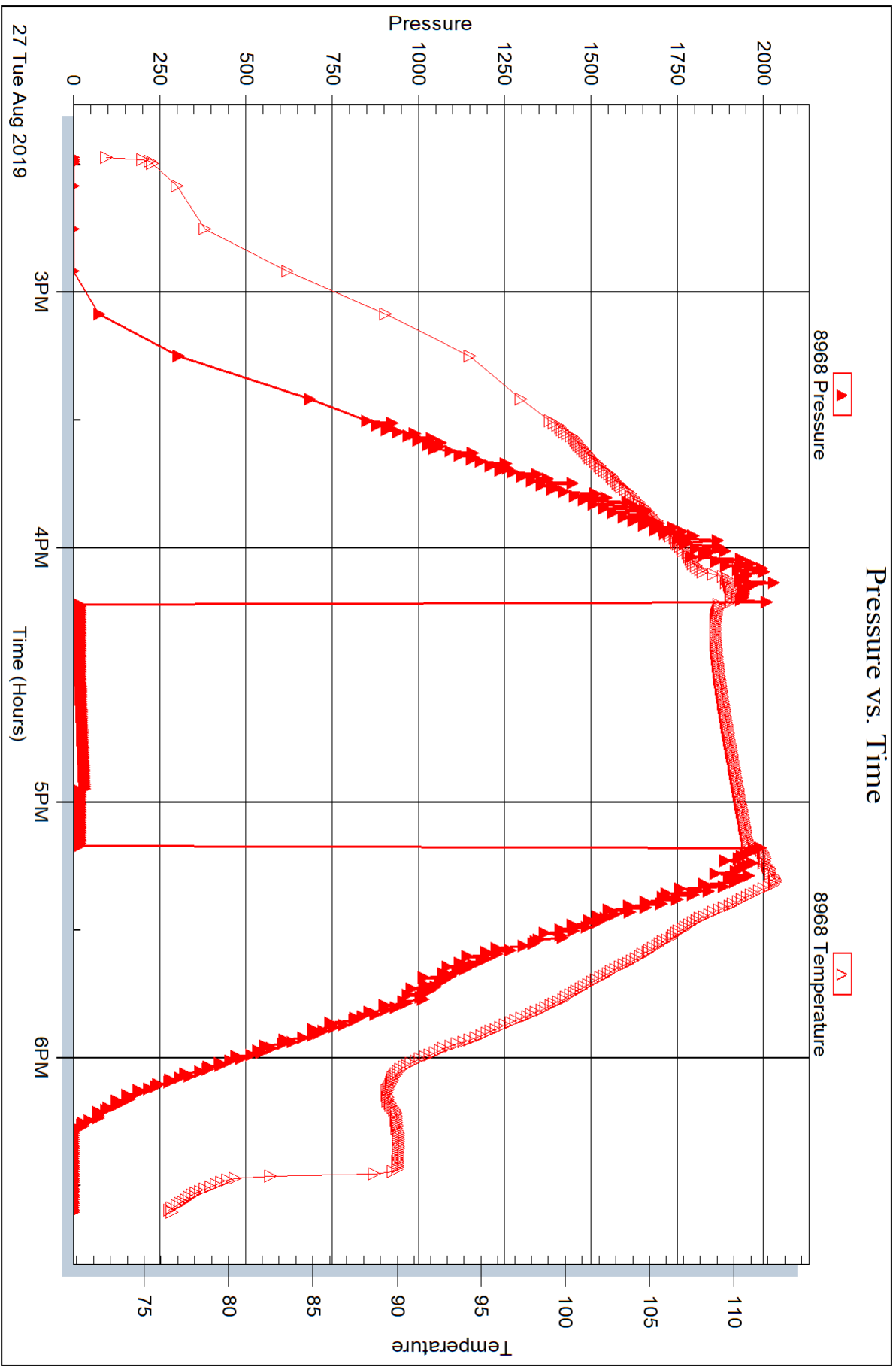
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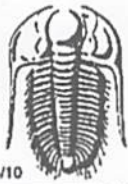
Serial #: 8968

Outside Carmen Schmitt Inc.

Karlin #1

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64845

Well Name & No. Karlin #1 Test No. 1 Date 8-24-19
 Company Carmen Schmitt Inc Elevation 2890 KB 2880 GL
 Address P.O. Box 47 Great Bend KS 67530
 Co. Rep / Geo. Brad Rine Rig Southwind 1
 Location: Sec. 13 Twp 11s Rge. 30w Co. Grove State KS

Interval Tested 4004-4024 Zone Tested Lansing E
 Anchor Length 20 Drill Pipe Run 3993 Mud Wt. 9.1
 Top Packer Depth 3999 Drill Collars Run 0 Vis 40
 Bottom Packer Depth 4004 Wt. Pipe Run 0 WL 7.2
 Total Depth 4024 Chlorides 1500 ppm System LCM 1

Blow Description IF: Built to 3'
IS: No Return Blow
FF: BOB 13 Min Built to 40"
FS: Weak Surface that died in 15 Min

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Free Oil</u>	<u>100</u>			
<u>330</u>	<u>OCWM</u>	<u>5</u>	<u>45</u>	<u>50</u>	
<u>248</u>	<u>OCW</u>	<u>5</u>	<u>95</u>		
<u>310</u>	<u>SW</u>				

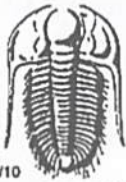
Rec Total 898 BHT 123 Gravity 60 API RW 847 @ 58.8°F Chlorides 10000 ppm

(A) Initial Hydrostatic 1953 Test 1300 T-On Location 20:15
 (B) First Initial Flow 29 Jars 250 T-Started 22:08
 (C) First Final Flow 127 Safety Joint 75 T-Open 23:45
 (D) Initial Shut-In 1226 Circ Sub _____ T-Pulled 03:00
 (E) Second Initial Flow 132 Hourly Standby _____ T-Out 05:42
 (F) Second Final Flow 403 Mileage 124 RT 124 Comments _____
 (G) Final Shut-In 1201 Sampler _____
 (H) Final Hydrostatic 1862 Straddle _____

Initial Open 15 Shale Packer _____ EM Tool _____
 Initial Shut-In 30 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 4560 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 90 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1749
 Sub Total 1749 MP/DST Disc't _____

Approved By Brad Rine Our Representative Mike Roberts

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. 64846

Well Name & No. Karlin #1 Test No. 2 Date 8-26-19
 Company Carmen Schmitt Inc Elevation 2890 KB 2080 GL
 Address P.O. Box 47 Great Bend KS 67530
 Co. Rep / Geo. Brad Rine Rig Southwind 1
 Location: Sec. 13 Twp 11s Rge. 30w Co. Grove State KS

Interval Tested 4057-4125 Zone Tested H-I
 Anchor Length 68 Drill Pipe Run 4056 Mud Wt. 9.1
 Top Packer Depth 4052 Drill Collars Run 0 Vis 57
 Bottom Packer Depth 4057 Wt. Pipe Run 0 WL 8.0
 Total Depth 4125 Chlorides 2500 ppm System LCM 5
 Blow Description IF: Built to 3/4" & Led to 1/2" Blow
IS: NO Return Blow
FF: Built to Weak Surface Blow
FS: Pulled Test

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud - oil spots in tool</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	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 109 Gravity 1300 API RW 124 @ 124 °F Chlorides 2500 ppm
 (A) Initial Hydrostatic 1950 Test 1300 T-On Location 07:20
 (B) First Initial Flow 33 Jars 250 T-Started 07:58
 (C) First Final Flow 35 Safety Joint 75 T-Open 09:38
 (D) Initial Shut-In 1126 Circ Sub NC T-Pulled 10:53
 (E) Second Initial Flow 36 Hourly Standby _____ T-Out 12:23
 (F) Second Final Flow 37 Mileage 124 RT 124 Comments _____
 (G) Final Shut-In Pulled Test Sampler _____
 (H) Final Hydrostatic 1911 Straddle _____

Initial Open 15 Shale Packer _____ EM Tool _____
 Initial Shut-In 30 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 30 Extra Recorder _____ Ruined Packer _____
 Final Shut-In Pull Day Standby _____ Extra Copies _____
 Sub Total 0 Accessibility _____ Sub Total 0
 Sub Total 1749 Total 1749 MP/DST Disc't _____

Approved By Brad Rine Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64847

Well Name & No. Karlin #1 Test No. 3 Date 8-26-19
 Company Carmen Schmitt Inc Elevation 2890 KB 2880 GL
 Address P.O. Box 47 Great Bend KS 67530
 Co. Rep / Geo. Brad Rine Rig Southwind 1
 Location: Sec. 13 Twp 11s Rge. 30w Co. Gove State KS

Interval Tested 4122-4185 Zone Tested J+k
 Anchor Length 63 Drill Pipe Run 4122 Mud Wt. 9.0
 Top Packer Depth 4117 Drill Collars Run Ø Vis 53
 Bottom Packer Depth 4122 Wt. Pipe Run Ø WL 8.8
 Total Depth 4185 Chlorides 1500 ppm System LCM Ø6
 Blow Description IF: Built to 3/4" Blow
IS: No Return Blow
FF: Weak Surface Blow died in 5 min
FS: Pulled Test

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MVP</u>			<u>100</u>	

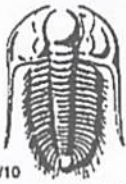
Rec Total 5 BHT 111 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2019</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>21:30</u>
(B) First Initial Flow <u>34</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>01:25</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>03:24</u>
(D) Initial Shut-In <u>71</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>04:20</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>06:14</u>
(F) Second Final Flow <u>35</u>	<input checked="" type="checkbox"/> Mileage <u>124 RT</u> 124	Comments
(G) Final Shut-In <u>Pulled Test</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1972</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	
	<input type="checkbox"/> Extra Packer	
	<input type="checkbox"/> Extra Recorder	
	<input type="checkbox"/> Day Standby	
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1749</u>	MP/DST Disc't

Initial Open 15
 Initial Shut-In 30
 Final Flow 10
 Final Shut-In Pull

Approved By Brad Rine Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64848

Well Name & No. Karlin #1 Test No. 4 Date 8-27-19
 Company Carmen Schmitt Inc Elevation 2890 KB 2880 GL
 Address P.O. Box 47 Great Bend KS 67530
 Co. Rep / Geo. Brad Rine Rig Southwind
 Location: Sec. 13 Twp 11s Rge. 30W Co. Grove State KS

Interval Tested 4180-4220 Zone Tested L
 Anchor Length 40 Drill Pipe Run 4184 Mud Wt. 9.0
 Top Packer Depth 4175 Drill Collars Run Ø Vis 49
 Bottom Packer Depth 4180 Wt. Pipe Run Ø WL 8.0
 Total Depth 4220 Chlorides 2200 ppm System LCM 6
 Blow Description IF: Built to 3/4" Blow
IS: No Return Blow
FF: Weak surface Blow
FS: Pulled Test

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

Rec Total 3 BHT 109 Gravity API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 2009 Test 1300 T-On Location 14:10
 (B) First Initial Flow 16 Jars 250 T-Started 14:28
 (C) First Final Flow 18 Safety Joint 75 T-Open 16:12
 (D) Initial Shut-In 31 Circ Sub NO T-Pulled 17:07
 (E) Second Initial Flow 18 Hourly Standby T-Out 18:36
 (F) Second Final Flow 18 Mileage 124 RT X2 Comments Loaded Tools
 (G) Final Shut-In Pulled Test Sampler 124+124 @ 10:00 8-29-19
 (H) Final Hydrostatic 1977 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby 1.5d 3.5h
 Accessibility

Initial Open 15
 Initial Shut-In 30
 Final Flow 10
 Final Shut-In Pull
 Sub Total 800
 Total 2673
 Sub Total 1873 MP/DST Disc't

Approved By Brad Rine Our Representative Mike Roberts

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COPELAND

Acid & Cement

BURRTON, KS ♦ GREAT BEND, KS
 (620) 463-5161 (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

POST OFFICE BOX 438
 HAYSVILLE, KS 67060
 (316) 524-1225
 (316) 524-1027 FAX

Invoice

INVOICE NUMBER:
C47153-IN

BILL TO:
CARMEN SCHMITT, INC.
PO BOX 47
GREAT BEND, KS 67530

LEASE: KARLIN #1

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
08/23/2019	47153		08/20/2019	KARLIN #1	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
30.00	MI	MILEAGE CEMENT PUMP TRUCK		25.00	4.00	90.00
1.00	EA	PUMP CHARGE SURFACE		25.00	1,100.00	825.00
200.00	SK	60/40 POZ MIX 2% GEL		25.00	11.25	1,687.50
11.00	SK	CALCIUM CHLORIDE		25.00	40.00	330.00
211.00	EA	BULK CHARGE		25.00	1.25	197.81
278.52	MI	BULK TRUCK - TON MILES		25.00	1.10	229.78
		<i>7/10/43</i> <i>19629.0001</i> <i>Well Ak</i> <i>Surface Casings</i>				
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		3,360.09
		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		GOVCO Sales Tax:		285.61
RECEIVED BY		NET 30 DAYS		Invoice Total:		3,645.70

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days pas

Copeland Acid & Cement is a subsidiary of Gressel Oil Field Service

Gressel Oil Field Service reserves a security interest in the goods sold until the same are paid for in full and reserve all the rights of a secured party under the Uniform Commercial Code.

COPELAND

Acid & Cement



BOX 438 - HAYSVILLE, KANSAS 67060
316-524-1225

FIELD ORDER

N^o C

47153

DATE 20-Aug 20 19

IS AUTHORIZED BY: CARMEN SCHMITT

(NAME OF CUSTOMER)

Address _____ City _____ State _____

TO TREAT WELL

AS FOLLOWS Lease KARLIN Well No. _____ 1 Customer Order No. _____

Sec. Twp.

Range _____ County GOVE State KS

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid is to service or treat the heretofore mentioned well and is not to be held liable for any damage that may occur in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our marketing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED
BEFORE WORK IS COMMENCED

Well Owner or Operator

Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
20.0002	30	Mileage P.T.	\$4.00	\$120.00
20.0005	1	Pump Charge Surface	\$1,100.00	\$1,100.00
20.1002	200	60/40 Poz 2% Gel	\$11.25	\$2,250.00
20.1012	11	Calcium Chloride per 60 lb.	\$40.00	\$440.00
20.0011	211	Bulk Charge	\$1.25	\$263.75
20.0012	278.52	Bulk Truck Miles	\$1.10	\$306.37
		Process License Fee on	Gallons	
		TOTAL BILLING		\$4,480.12

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below. # 3360.07

Copeland Representative GREG CURTIS

Station GB

MATT SUCHY

Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS



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

Well Name: Karlin #1 - Carmen Schmitt, Inc.
API: 15-063-22362-00-00
Location: NE-SW-SW-SW Section 13-11S-30W
License Number: KCC #6569
Spud Date: August 20, 2019
Surface Coordinates: 450' FSL and 500' FWL,
of Section
Bottom Hole Vertical Wellbore
Coordinates:
Ground Elevation (ft): 2880 Ft.
Logged Interval (ft): 3700 Ft To: 4615 Ft. Total Depth (ft): RTD 4615 Ft. LTD 4616 Ft.
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Chemical

Region: Gove County, Kansas
Drilling Completed: August 29, 2019
Results: P & A
Field: Wildcat
K.B. Elevation (ft): 2890 Ft.

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

Operator

Company: Carmen Schmitt, Inc.
Address: PO Box 47
Great Bend, Kansas 67530-0047

Geologist

Name: M. Bradford Rine
Company: Consulting Geologist, Kansas Lic. #204, Wyo #189, AAPG Cert. #2647
Address: 100 South Main, Suite #415
Wichita, Kansas 67202

Remarks

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator, to plug and abandon the "Karlin #1", on August 29, 2019.

Respectfully submitted,
M. Bradford Rine, geologist

Drilling Information

Rig: Southwind, Rig #1
Pump: BH 800--11 6 x 8.5 (tri-plex)
Drawworks: TSM 6000 (Tri-Service Manuf.)
Collars: 456' 2-1/4 x 6-1/4
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Cecil Farmer

Mud: Mudco (Reid Atkins)
Gas Detector: None
Drill Stem Tests: Trilobite (Mike Roberts)
Logs: Pioneer (J. Henrickson)
Water: Landowner Water Well East of Bldg (Southwind pump)
Company Representatives:
Office: Carmen Schmitt
Field: None

Daily Drilling Status

Date:	Operations/Depth/Comments
08-20-19	MIRT, RU, Spud at 7:00 PM @ 0'
08-21-19	Waiting on Cement @ 270'
08-22-19	Drilling @ 1778'
08-23-19	Drilling @ 3107'
08-24-19	Drilling @ 3830'
08-25-19	Trip in Hole After DST #1 @ 4024'
08-26-19	Trip Out of Hole for DST #2 @ 4125'
08-27-19	Trip in Hole After DST #3 @ 4185'
08-28-19	Drilling @ 4404'
08-29-19	Logging @ 4615' RTD, LTD 4616' Finish Plugging at 5:00 PM

Results: P & A		(Well A) Oil		(Well B) D & A		(Well C) Oil/P&A						
Carmen Schmitt, Inc.		Falcon Explo., Inc.		Petex Inc.		Kaiser-Francis Oil						
Karlín #1		Wolf #1		Dohm #1		Baalman #1						
450'FSL & 500'FWL		330'FSL & 3630'FEL		330'FSL & 3630'FEL		3300'FSL & 660' FEL						
Sec. 13-115-30W		Sec. 11-115-30W		Sec. 22-115-30W		Sec. 15-115-30W						
KB 2890		KB 2881		KB 2877		KB 2902						
Formations	Sample	E-Log	Datum	E-Log	Datum	Spl	Datum	E-Log	Datum	Comparison(s)		
Anhydrite	2380	2383	507	2382	499	2351	526	2391	511	8	-19	-4
B/Anhydrite	2409	2412	478	2410	471			2420	482	7		-4
Tarkio	NC	3549	-659	3546	-665			3546	-644	6		-15
Heebner Sh.	3905	3904	-1014	3888	-1007	3862	-985	3897	-995	-7	-29	-19
Toronto	3918	3917	-1027	3906	-1025			3922	-1020	-2		-7
Lansing	3944	3941	-1051	3926	-1045	3899	-1022	3937	-1035	-6	-29	-16
Muncie Creek Sh.	4072	4070	-1180	4056	-1175			4067	-1165	-5		-15
Stark Sh.	4155	4156	-1266	4140	-1259			4149	-1247	-7		-19
B/Kansas City	4212	4211	-1321	4198	-1317			4209	-1307	-4		-14
Marmaton	4235	4238	-1348	4231	-1350	4215	-1338	4246	-1344	2	-10	-4
Altamont	4262	4261	-1371	4268	-1387			4267	-1365	16		-6
Pawnee	4330	4331	-1441	4321	-1440			4332	-1430	-1		-11
Myric Station	4378	4379	-1489	4372	-1491			4384	-1482	2		-7
Ft. Scott	4404	4403	-1513	4395	-1514			4407	-1505	1		-8
Cherokee Sh.	4430	4431	-1541	4420	-1539	4412	-1535	4436	-1534	-2	-6	-7
Mississippian (clean)	4502	4488	-1598	4500	-1619	4482	-1605	4510	-1608	21	7	10
Miss. Osage	NC	NC	NA	4540	-1659			4542	-1640			
Total Depth	4615	4616	-1726	4652	-1771	4536	-1659	4579	-1677	45	-67	-49
* Pipe Strap at 3596' was 4.87 ft short!												

Casing Record, Bit Record, Deviation Surveys

Conductor: None

Surface: Ran 6 jts, new 8-5/8" 23#, set @ 265 ft. (Copeland) Cement with 200 sx Common, 3% CC, 2% gel. Plug down at 11:30 PM. Cement did circulate.

Production: P & A. (Copeland) Cement with 260 sx Common, 4% gel-3% CC, as follows: 50 sx @ 2395', 100 sx @ 1480', 50 sx @ 320', 10 sx @ 40', 30 sx in Rathole, 20 sx in Mousehole. Job complete @ 5:00 PM, August 29, 2019.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	JZ	tooth	0	270	2
2	7-7/8	Logis.	PDC	270	3596	36.25
3	7-7/8	JZ	HA23	3596	4615	41.00

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.75*	270'	1.00*	4125'
0.75*	3596'	2.00*	4615'
2.00*	4024'		

Pipe Straps:

Depth	Difference
3596'	-4.87'

Displace/Mud up:

3499'

DST #1: 4004-4024 (Lsg E)

Times: 15-30-60-90

Initial Open: Wk Blow, built to 3" i.b.

Final Open: Stg Blow, b.o.b. 13 min, built to 40",

Wk surf return blow-died in 15 min

Rec: 898' Total Fluid

10' Oil

330' SOC&WCM: 05%o 45%w 50%m

248' SOCW: 05%o 95%w

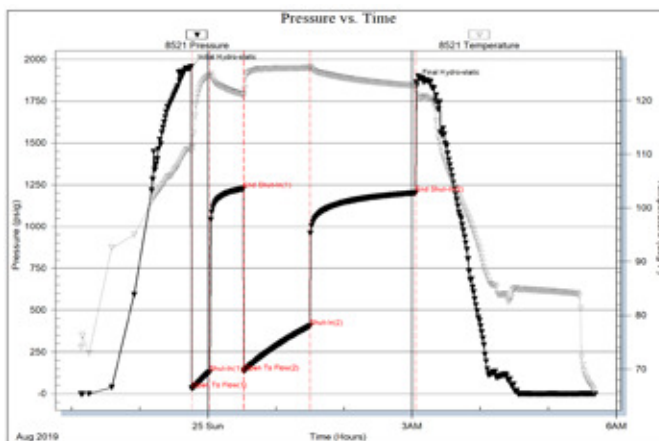
310' Wtr: Chl/10,000 ppm

IHP: 1953 FHP: 1862

IFP: 29-127 FFP: 132-403

ISIP: 1226 FSIP: 1201

BHT: 123°F



DST #2: 4057-4125 (LKC H,I)

Times: 15-30-30-out

**Initial Open: Wk blow, built to 3/4" i.b.,
died back to 1/2"**

Final Open: Wk surf blow throughout

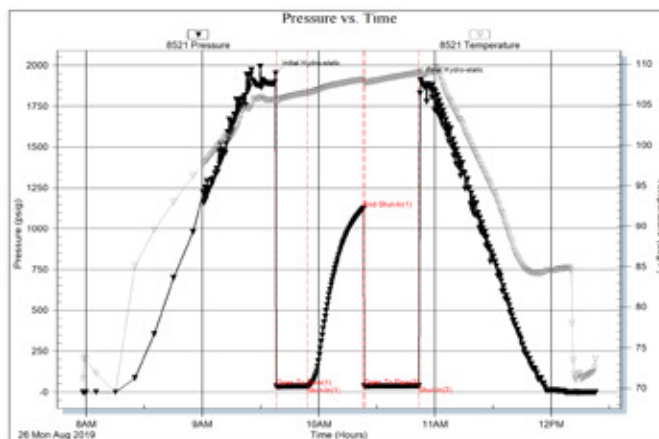
Rec: 10' mud with oil spots

IHP: 1950 FHP: 1911

IFP: 33-35 FFP: 36-37

ISIP: 1126 FSIP: NA

BHT: 109°F



DST #3: 4122-4185 (LKC J,K)

Times: 15-30-10-out

Initial Open: Wk blow, built to 3/4" i.b.

Final Open: Wk surf blow, died in 5 min

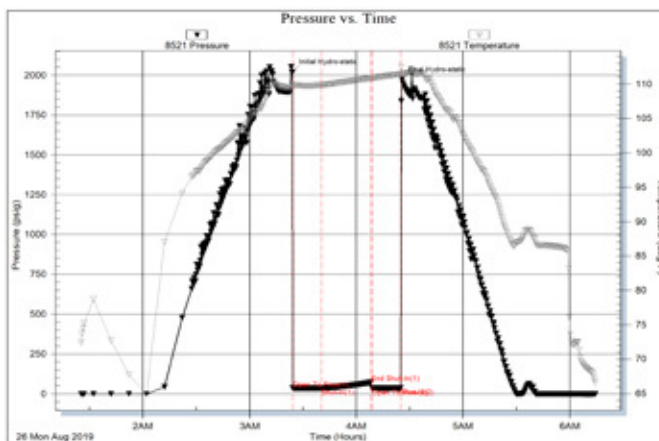
Rec: 5' mud

IHP: 2019 FHP: 1972

IFP: 34-35 FFP: 35-35

ISIP: 71 FSIP: NA

BHT: 111°F



DST #4: 4180-4220 (LKC L)

Times: 15-30-10-out

Initial Open: Wk blow, built to 3/4" i.b.

Final Open: Wk surface blow, weakening

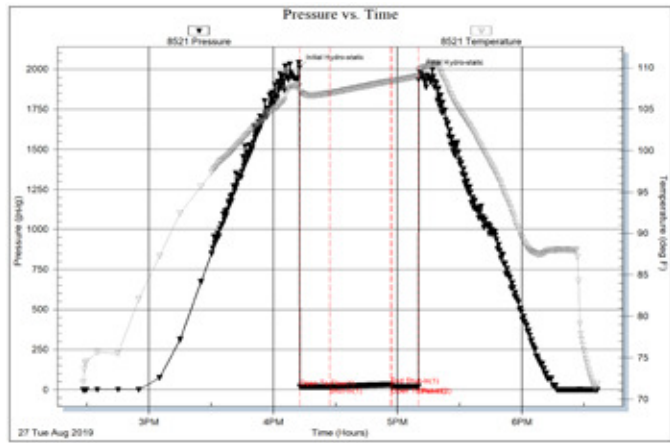
Rec: 3' mud

IHP: 2009 FHP: 1977

IFP: 16-18 FFP: 18-18

ISIP: 31 FSIP: NA

BHT: 109°F



Rock Types

	Congl granite wash		Bent		Dol		Salt		Till
	dol ls limey		Brec		Gyp		Shale		Siltysh
	New symbol		Cht		Igne		Shcol		Shlysiltst
	Dolom ls limey		Clyst		Lmst		Shgy		Sandyls
	New symbol		Black shale/coal		Meta		Siltst		
	Anhy		Congl		Mrlst		Ss		

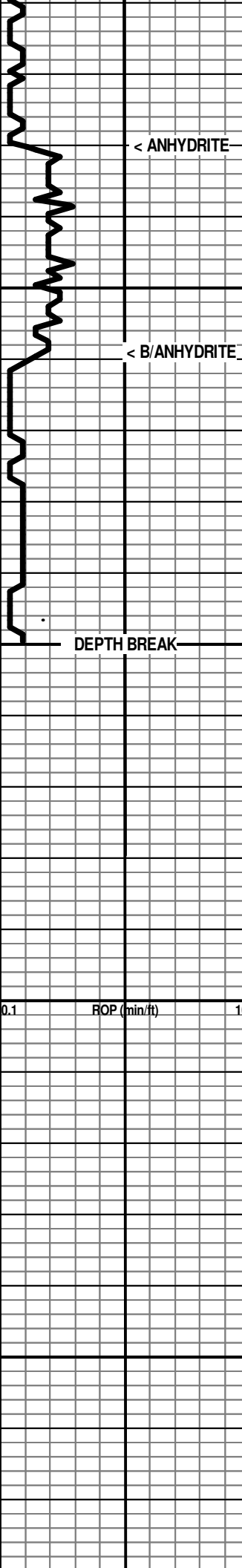
Accessories

MINERAL		Gyp	FOSSIL		Ostra		Siltstrg
	Anhy		Hvymin		Pelec		Ssstrg
	Arggrn		Kaol		Pellet	TEXTURE	
	Arg		Marl		Pisolite		Boundst
	Bent		Minxl		Plant		Chalky
	Bit		Nodule		Strom		Cryxln
	Brecfrag		Phos	STRINGER			Earthy
	Calc		Pyr		Anhy		Finexln
	Carb		Salt		Shale		Grainst
	Chtdk		Sandy		Bent		Lithogr
	Chtlt		Silt		Coal		Microxln
	Dol		Sil		Dol		Mudst
	Feldspar		Sulphur		Gyp		Packst
	Ferrpel		Tuff		Ls		Wackest
	Ferr				Mrst		
	Glau						

Other Symbols

OIL SHOW		Even		Dead	INTERVAL
	Oil & gas show		Spotted		Gas
	Gas show		Ques or trace		Core
					Dst

ROP (min/ft)	MD	Lithology	Geological Descriptions	Remarks
ROP (min/ft) — ROP (min/ft)				
0.1 ROP (min/ft) 10	2300			
	50			



< ANHYDRITE

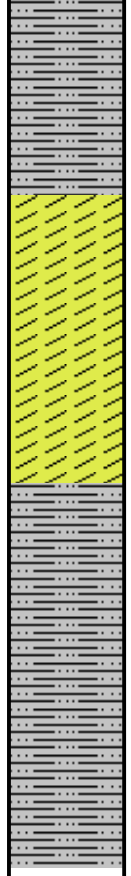
2400

< B/ANHYDRITE

DEPTH BREAK

3600

3650



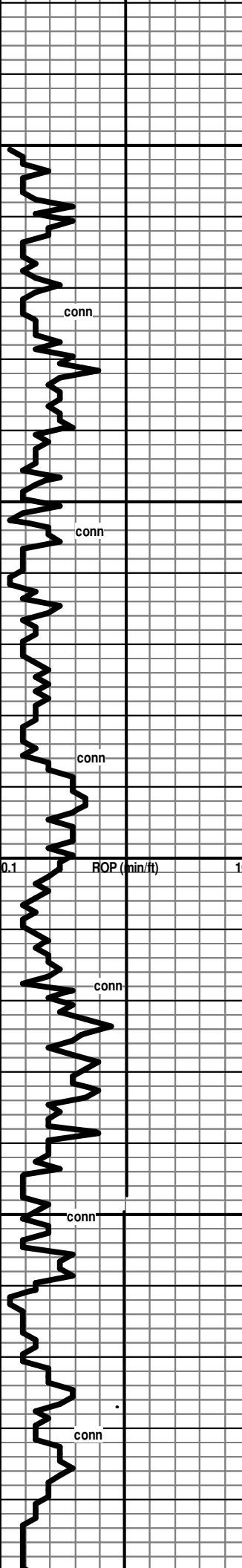
2380(+499)

Anhydrite Interval, based on drill time only!

2409 (+471)

* Lost Circulation at 1661' and 1693'!

Pipe Strap @ 3596 Ft:
Difference: -4.87'



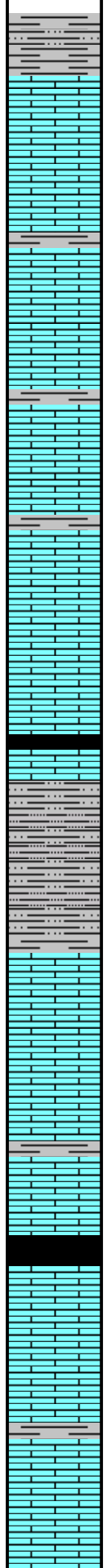
3700

3750

3800

3850

3900



Sh & silty Sh gy grn

Ls wh-cr,fn lxn, pr-fr xln por

Ls wh-cr, fn xln, mostly pr-fr xln por, some dns

Ls wh-cr, fn xln, pr-fr xln por, foss, some gy shale

Ls wh-cr-gy,fn xln, some dns, mostly pr-fr xln por,foss

Ls wh-cr, fn xln, pr-fr xln por, some gd xln por, some chalky, foss

Sh black, carb

Siltstone-Silty Sh-Shaley Silt red-gy-grn

Ls wh-cr, fn xln, pr-fr xln por, some blk shale

Ls mostly wh-cr,some gy, fn xln, dns to prxln por, foss in pt

Sh black, carb

Ls wh-cr-tan, fn xln, pr xln por to dns, foss

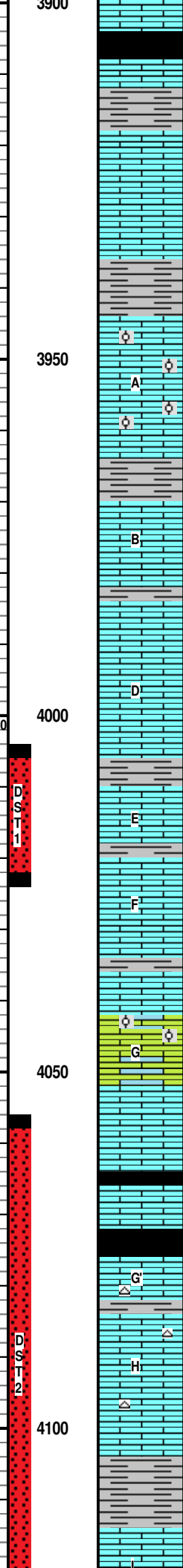
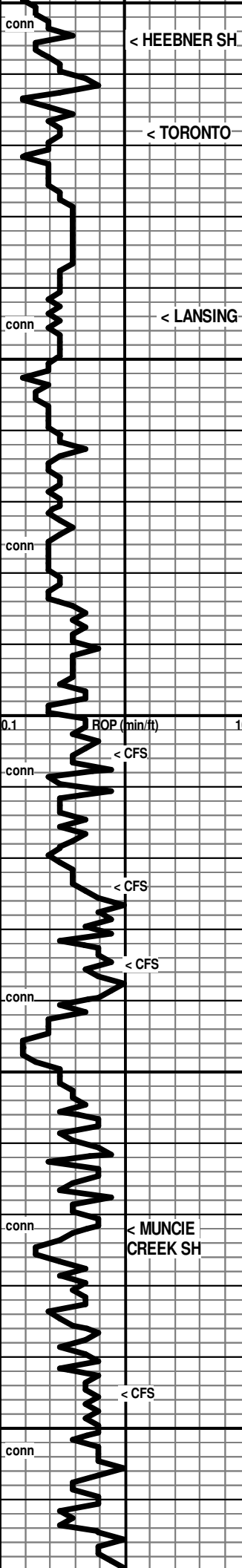
Ls wh-cr, fn xln, pr-fr xln por, scatt pp pores, foss, scatt foss pores

Ls wh-cr, fn xln, pr-fr xln por, scatt pp pores, foss, scatt foss pores, some foss weath'd to dk

7:00 AM, August 24, 2019

Mud Check: Drlg @ 3884':

Vis	Wt	WL	LCM	PV	YP
40	9.1	7.2	1	15	13
Chl	Hd	pH	Solids		
1500	40	11.0	5.4		



3900

< HEEBNER SH

< TORONTO

< LANSING

3950

3905 (-1015)
Sh black, carb (well repres in 3920' spl)
Ls cr-gy, fn xln, pr xln por to dns, abund foss

Sh gy-reddish brn

3918 (-1028)

Ls wh-cr-tan, fn xln, chalky in pt, pr xln por in pt, dns in pt, foss, chert: fresh to sli grainy, white, opa

Sh red-gy-grn

3944 (-1054)

Ls wh-cr, fn xln, pr xln por, ool in pt with scatt interool pores, foss in pt

A

Ls wh-cr, fn xln, pr xln por, ool in pt with scatt interool pores, foss in pt, some dns

Sh gy-grn, Subsilty text in pt

B

Ls wh-cr, fn xln, pr xln por, scatt pp pores, foss to abund foss with scatt interfoss pores

Sh gy-red-grn, subsilty text in pt

D

Ls wh-cr-gy-grn, fn xln, mostly pr xln por to dns, some fr xln por with scatt pp pores, Rr chalky pcs, foss, scatt sm pyrite xls

4000

0.1 ROP (min/ft) 10

< CFS

conn

DST #1

E

Sh gy

Ls cr, fn xln, mostly pr xln por with fr am't of pp pores & sm-md vugs, foss

[Mild Odor, mod am't of dull fluor, mod am't of pcs with lt brn-brn-dk brn Stn, of a mix of mostly dk NVL oil and some lighter v. sli gassy FO, Dry spls: brn to dk brn spotty-patchy to Rr even sat stn, some barren pp pores]

Ls wh-cr, fn xln, dns in pt, pr xln por in pt, chalky in pt, foss

[No Odor, NSFO, Rr pcs with spotty dk stn, May be from above?]

Ls cr, fn xln, dns-pr xln por, foss

F

G

Dol & Dol Ls cr, fn xln, sucrosic, fr-gd xln por, ool in pt with scatt oom

4050

Ls wh-cr, fn xln, pr xln por to dns, chalky in pt, foss in pt

Sh black, carb (low % of spl)

Ls gy-cr, fn xln, dns to pr xln por, foss

4072 (-1182)

Sh black, carb, (abund in 4090' spl)

G'

Ls wh-cr-tan, fn xln, pr xln por to dns, some chalky, foss, chert: wh-tan, fresh, spic foss in pt, subtransl

[4095' spl: No Odor, Few pcs per tray with dull fluor and spotty brn Stn, Trace shows of micro-drops DO & micro-drops of tan FO]

H

Ls wh-cr-tan, fn xln, pr xln por to dns, some chalky, pyr in pt, foss, chert: wh-tan, fresh, spic foss in pt, subtransl

4100

< CFS

conn

DST #2

Sh gy

Ls wh-cr-tan-pl gy, fn xln, subchalky in pt, mostly dns & firm in pt, with Rr sm patches of pr xln por, sli foss

DST #1: 4004-4024 (Lsg E)
 Times: 15-30-60-90
 Initial Open: Wk Blow, built to 3" i.b.
 Final Open: Stg Blow, b.o.b. 13 min, built to 40", Wk surf return blow-died in 15 min
 Rec: 898' Total Fluid
 10' Oil
 330' SOC&WCM: 05%o 45%w 50%
 248' SOCW: 05%o 95%w
 310' Wtr: Chl/10,000 ppm
 IHP: 1953 FHP: 1862
 IFP: 29-127 FFP: 132-403
 ISIP: 1226 FSIP: 1201
 BHT: 123°F

7:00 AM, August 25, 2019

* Lost Circulation after DST 1 @ 4024 ft, when back on bottom with bit and kicked pump in!

Mud Check: CTCH @ 4024' (after lost returns):

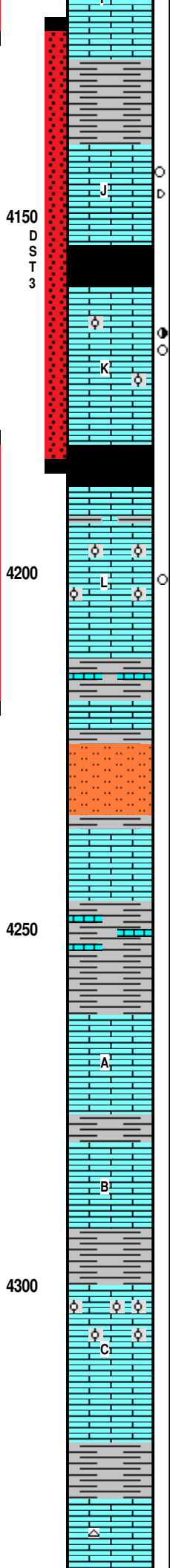
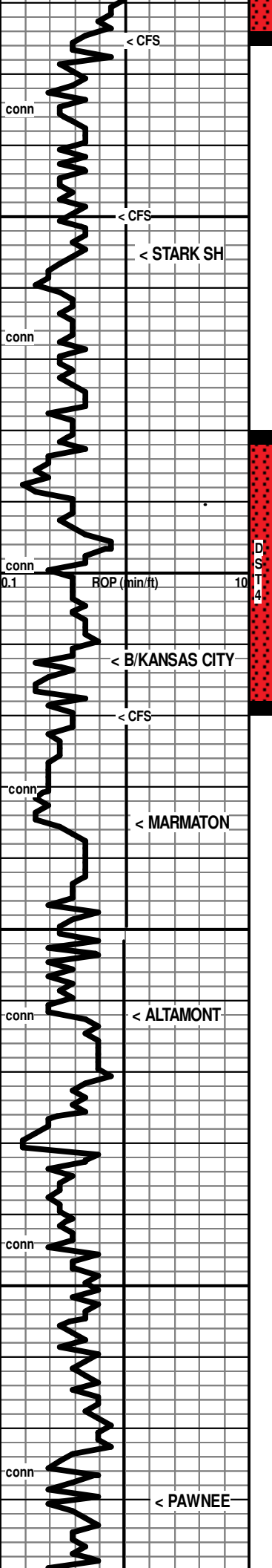
Vis	Wt	WL	LCM	PV	YP
57	9.1	8.0	5	18	15
Chl	Hd	pH	Solids		
2500	40	10.5	5.4		

DST #2: 4057-4125 (LKC H,I)
 Times: 15-30-30-out
 Initial Open: Wk blow, built to 3/4" i.b., died back to 1/2"
 Final Open: Wk surf blow throughout
 Rec: 10' mud with oil spots
 IHP: 1950 FHP: 1911
 IFP: 33-35 FFP: 36-37
 ISIP: 1126 FSIP: NA
 BHT: 109°F

* Lost Circulation at 4095' while CFS!

Mud Check: CFS @ 4125':

Vis	Wt	WL	LCM	PV	YP
53	9.0	9.0	6	17	13
Chl	Hd	pH	Solids		
1500	60	10.5	4.0		



[Fnt Odor on crush, Rr patches of dull fluor, Rr spotty & small patches of brn stn with Tr show of micro-drops FO on crush]

Sh gy-grnsh-red, subsilty text in pt

Ls wh-cr, fn xln, mostly dns, mod am't chalky, few pcs with patchy pr xln por, foss

[No Odor, few pcs with spots of dull Fluor, a few pcs with patches of brn-blk DO spotted Stn, one pc with trace show of a micro-drop FO]

← 4155 (-1265)

Sh black, carb (poorly repres in spl)

Ls wh-cr, fn xln, mostly pr xln por to subchalky to chalky, scatt pt pores & foss pores, Rr ool pcs with scatt tr of interool pores

[Fnt Odor, low % pcs with dull-mod fluor, Low% pcs with spotty to patchy brn stn, scatt trace-v sli shows of NVL oil & FO]

Sh black, carb

Ls wh-cr-tan, fn xln, chalky in pt, dns in pt

Ls wh-cr, fn xln, abund chalky, abund dns, some pr xln por, ool in pt, foss

[No Odor in cup, Fnt fleeting odor on crush, few pcs per tray with with patches of lt brn spotty stn, Rr pcs with tr of lt brn micro-drops of FO on crush]

← 4212 (-1322)

Sh mostly gy, some grn to red, silty in pt, pyritic in pt

Ls wh-cr, fn xln, dns, foss

Sh gy-grnsh-red, Siltstone wh-gy, calc cement

← 4235 (-1345)

Ls cr-pl gy, vfn-fn xln, dns

Sh gy-black-red, some Ls wh,dns

← 4262 (-1372)

Ls wh-cr, fn xln, mostly dns & firm, some chalky, Rr pcs with pr xln por, foss in pt

Sh gy-grnsh, red

Ls wh-cr-gy, fn xln, dns, foss in pt

Sh gy-grnsh

Ls wh-cr-tan, fn xln, dns to pr xln por, foss

Ls wh-cr-tan, fn xln, dns, abund ool mostly well-cem with scatt pr xln por cem

Ls wh-cr, vfn-fn xln, dns, sli foss in pt

Sh gy

← 4330 (-1440)

Ls cr-tan, vnf-fn xln, dns, chert: fresh, tan, subopaq-subransl

1300 80 10.5 4.9

7:00 AM, August 26, 2019

DST #3: 4122-4185 (LKC J,K)

Times: 15-30-10-out

Initial Open: Wk blow, built to 3/4" i.b.

Final Open: Wk surf blow, died in 5 min

Rec: 5' mud

IHP: 2019 FHP: 1972

IFP: 34-35 FFP: 35-35

ISIP: 71 FSIP: NA

BHT: 111°F

Mud Check: TIH @ 4185':

Vis	Wt	WL	LCM	PV	YP
49	9.0	9.0	6	14	16
Chl	Hd	pH	Solids		
2200	80	10.5	4.9		

7:00 AM, August 27, 2019

DST #4: 4180-4220 (LKC L)

Times: 15-30-10-out

Initial Open: Wk blow, built to 3/4" i.b.

Final Open: Wk surface blow, weakening

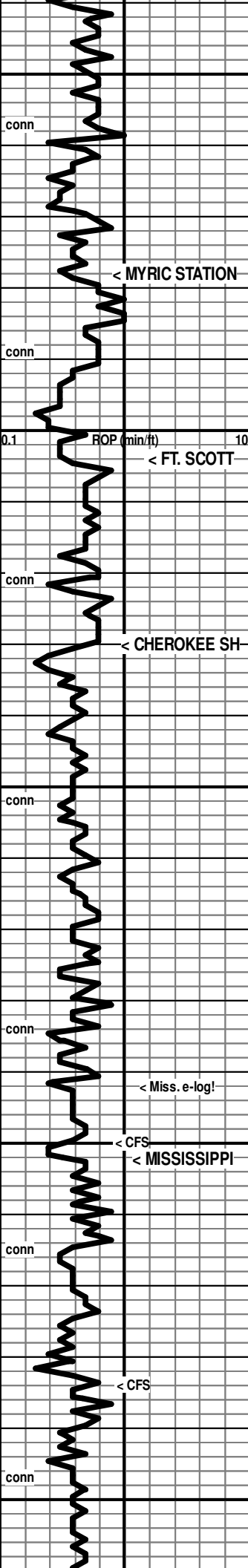
Rec: 3' mud

IHP: 2009 FHP: 1977

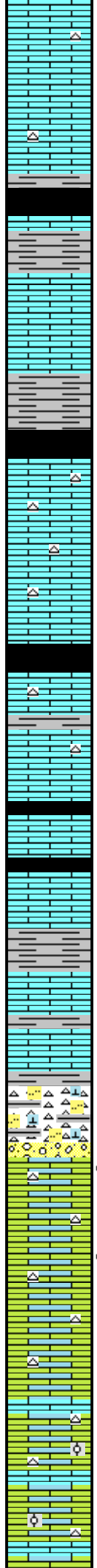
IFP: 16-18 FFP: 18-18

ISIP: 31 FSIP: NA

BHT: 109°F



4350
4400
4450
4500
4550



Ls wh-cr-tan, vfn-fn xln, dns, chert: fresh, cr-tan, subopaq-subtransl

Sh dk gy-black, carb in pt

← 4378 (-1488)

Ls wh-cr-tan, vfn-fn xln, dns, some chalky pcs, sli foss, trace of embedded pyrite

Sh gy-dk gy-black, carb in pt

← 4404 (-1514)

Ls wh-cr-tan-gy, vfn-f xln, dns to pr xln por, foss to abund foss, chert: fresh, wh-cr-pl gy, subtransl

Ls wh-cr-tan-gy, vfn-f xln, dns to pr xln por, chalky in pt, foss to abund foss, chert: fresh, wh-cr-pl gy, subtransl-transl

← 4430 (-1540)

Sh black, carb

Ls wh-cr-tan, vfn-fn xln, mostly dns, some chalky, some pr xln por, foss, chert: fresh, cr-tan, transl

Some shale gy-dk gy

Ls wh-cr-tan, vfn-fn xln, mostly dns, some chalky, some pr xln por, foss, chert: fresh, cr-tan, transl

Sh black, carb

Sh black, carb

Ls wh-cr-tan, fn xln, dns & firm to softer & chalky, foss, few ool pcs

Ls wh-cr, fn xln, dns, with scatt calcite patches, foss

Sh gy-grn, silty

Ls wh-cr, fn xln, dns, foss

Sh: gy-grn-red with some yellow, subwaxy-subsilty; Siltstone: wh-gy, vfn gm-fn gm, pr vis intergrmlr por with por fri, cem in pt; Chert: fresh, transl, wh-cr-tan-or; Ls wh-cr-grnsh, silty in pt, scatt glauc specks, some red shale filled pores; Few clusters of congl Sd/chert mix

← 4502 (-1612)

4510' spl: 80% Ls wh-cr, fn xln, chalky in pt, dns in pt with v Rr pcs with patchy pr xln por; 20% as above

4520' spl: Ls, Dol Ls to Limey Dol wh-cr-tan-pl gmsh, fn xln, subsucr in pt, foss in pt, chalky in pt, abund fresh chert

4530' spl: Ls, Dol Ls to Limey Dol wh-cr-tan-pl gmsh, fn xln, subsucr in pt, found one pc with few pp pores, foss in pt, chalky in pt, abund fresh chert, scatt dk red patches of scale? not oil stn

CFS @ 4534': Ls, Dol Ls to Limey Dol wh-cr-tan-pl gmsh, fn xln, subsucr in pt, foss in pt, chalky in pt, abund fresh chert, scatt dk red patches of scale? not oil stn, scatt dk grn glauc specks

Ls, Dol Ls to Limey Dol wh-cr-tan-pl gmsh, fn xln, subsucr in pt, foss in pt, chalky in pt, abund fresh-sub-grainy chert, spicul in pt, scatt dk red patches of scale? not oil stn, scatt dk grn glauc specks

Ls, Dol Ls to Limey Dol wh-cr-tan-pl gmsh, fn xln, subsucr in pt, foss in pt, chalky in pt, abund fresh-sub-grainy chert, spicul in pt, scatt dk grn glauc specks, Rr ool pcs of Ls, scatt pyritic

7:00 AM, August 28, 2019

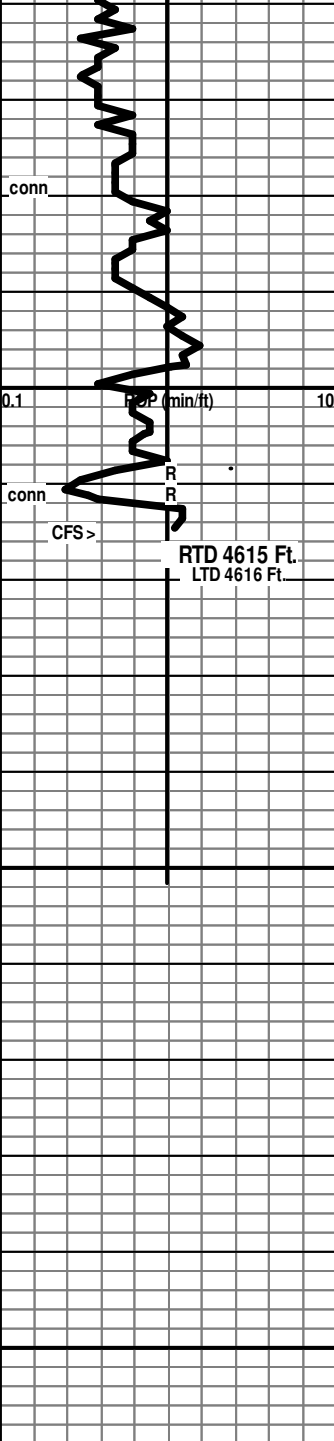
Mud Check: Drlg @ 4433':

Vis	Wt	WL	LCM	PV	YP
47	9.1	8.8	7	14	15
Chl	Hd	pH	Solids		
3500	80	9.5	5.3		

* LCM starting to ferment!

[4510' Spl: No Odor, No Fluor, NSFO, Found one pc Ls with a patch of dk spots, on crush-no show of FO]

[4530' spl: No Odor No Fluor, found one pc with a couple of pp pores with brn oil stn, NSFO]



4600

4650

4700



Ls, Dol Ls to Limey Dol wh-cr-tan-pl gmish, fn xln, subsucr in pt, foss in pt, chalky in pt, abund fresh-sub-grainy chert (possible incr), spicul in pt, scatt dk gm glauc specks, Rr ool pcs of Ls, scatt pyritic

Ls wh-cr, fn xln, dns to pr xln por, micro-foss in pt, ool in pt, cherty as above

Dol wh-cr, fn xln, subsucr-sucr, pr-fr xln por, cherty

Ls cr, vfn xln, dns, vitreous text, abund chert in spls

RTD 4615 Ft. Reached at 10:00 PM, August 28, 2019!