

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	WERTH 1
Doc ID	1378160

Tops

Name	Top	Datum
Anhydrite	1897	539
Heebner Sh.	3666	-1230
Toronto	3686	-1250
Lansing	3706	-1270
Stark Sh.	3935	-1499
B/ KC	3987	-1551
Marmaton	4029	-1593
Altamont	4050	-1614
Pawnee	4130	-1694
Fort Scott	4192	-1756
Cherokee Sh	4217	-1781
Miss	4302	-1866



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

7-14S-25W Trego, KS

Werth #1

Job Ticket: 63336

DST#: 1

Test Start: 2017.12.18 @ 09:32:56

GENERAL INFORMATION:

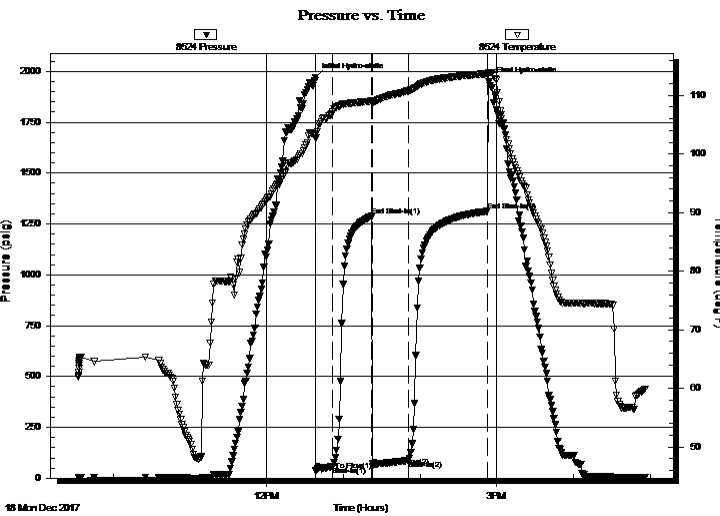
Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:38:17
 Time Test Ended: 16:55:47
 Interval: **3913.00 ft (KB) To 3935.00 ft (KB) (TVD)**
 Total Depth: 3935.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2436.00 ft (KB)
 2431.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8524

Outside

Press@RunDepth: 86.38 psig @ 3932.00 ft (KB)
 Start Date: 2017.12.18 End Date: 2017.12.18
 Start Time: 09:32:57 End Time: 16:55:47
 Capacity: 8000.00 psig
 Last Calib.: 2017.12.18
 Time On Btm: 2017.12.18 @ 12:38:02
 Time Off Btm: 2017.12.18 @ 14:54:02

TEST COMMENT: 15- IF- BOB 9 mins
 30- IS- No blow
 30- FF- BOB 4mins
 60-FS- Surface blow died in 23 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1970.02	103.37	Initial Hydro-static
1	37.25	102.81	Open To Flow (1)
14	57.68	107.13	Shut-In(1)
45	1287.64	109.04	End Shut-In(1)
45	58.55	108.71	Open To Flow (2)
73	86.38	110.80	Shut-In(2)
135	1312.77	113.70	End Shut-In(2)
136	1948.60	113.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
139.00	GOCM, 10%G 35%O 55%M	1.71
0.00	174' GIP	0.00

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

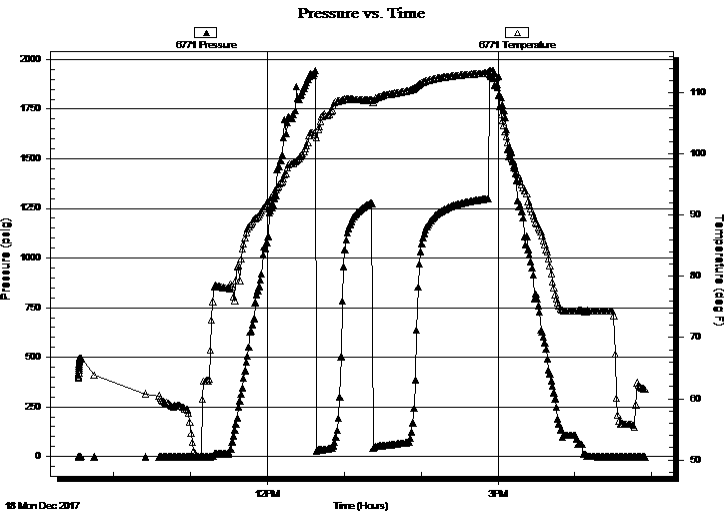
7-14S-25W Trego, KS
Werth #1
 Job Ticket: 63336 **DST#: 1**
 Test Start: 2017.12.18 @ 09:32:56

GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:38:17
 Time Test Ended: 16:55:47
 Interval: **3913.00 ft (KB) To 3935.00 ft (KB) (TVD)**
 Total Depth: 3935.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2436.00 ft (KB)
 2431.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6771 Inside
 Press@RunDepth: psig @ 3932.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.12.18 End Date: 2017.12.18 Last Calib.: 2017.12.18
 Start Time: 09:32:40 End Time: 16:55:15 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15- IF- BOB 9 mins
 30- IS- No blow
 30- FF- BOB 4mins
 60-FS- Surface blow died in 23 mins



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
139.00	GOCM, 10%G 35%O 55%M	1.71
0.00	174' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

7-14S-25W Trego, KS
Werth #1
Job Ticket: 63336 **DST#: 1**
Test Start: 2017.12.18 @ 09:32:56

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.40 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3500.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
139.00	GOCM, 10%G 35%O 55%M	1.711
0.00	174' GIP	0.000

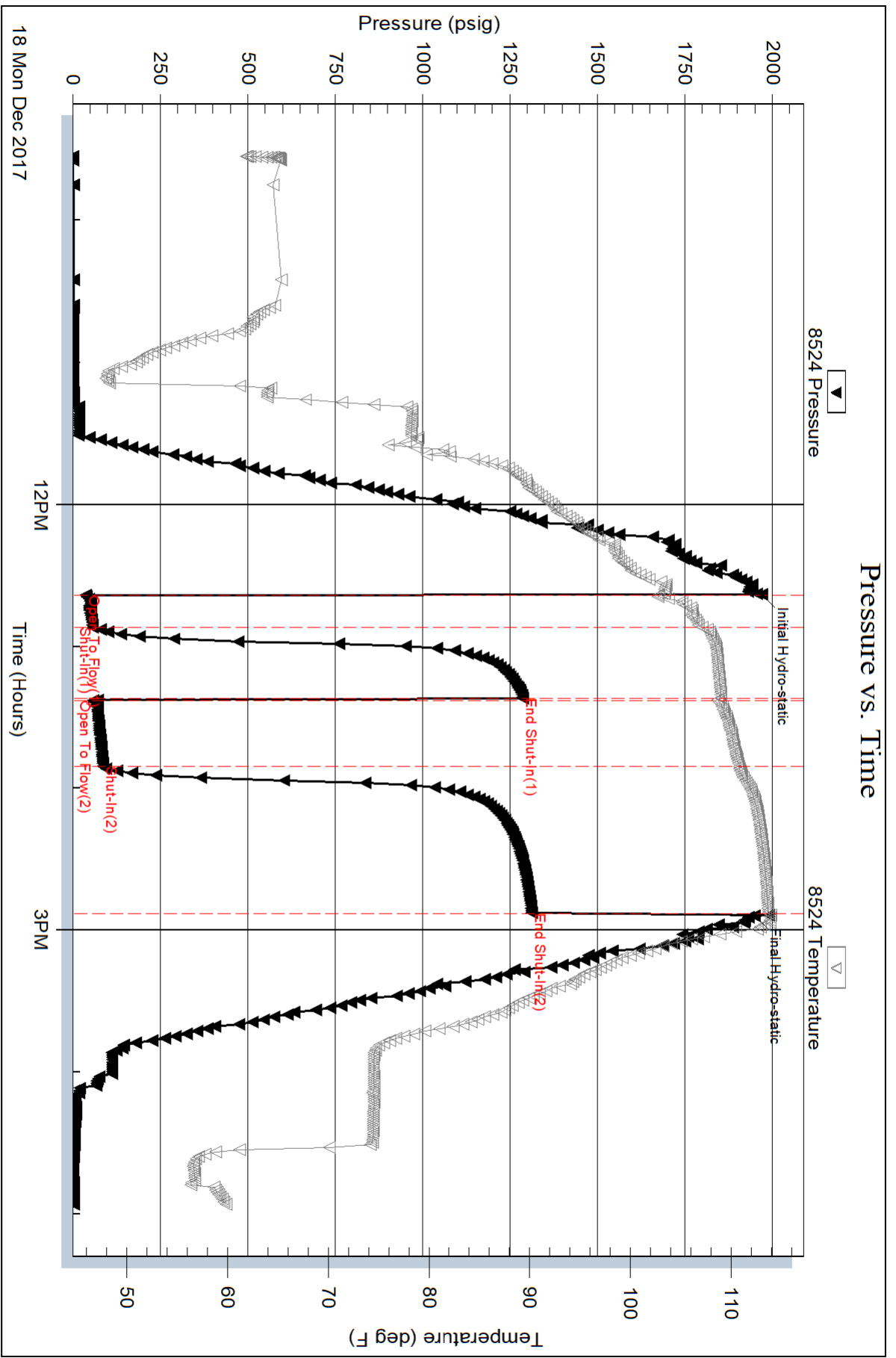
Total Length: 139.00 ft Total Volume: 1.711 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8524

Outside Carmen Schmitt, Inc.

Werth #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 63336

Printed: 2017.12.18 @ 17:11:51

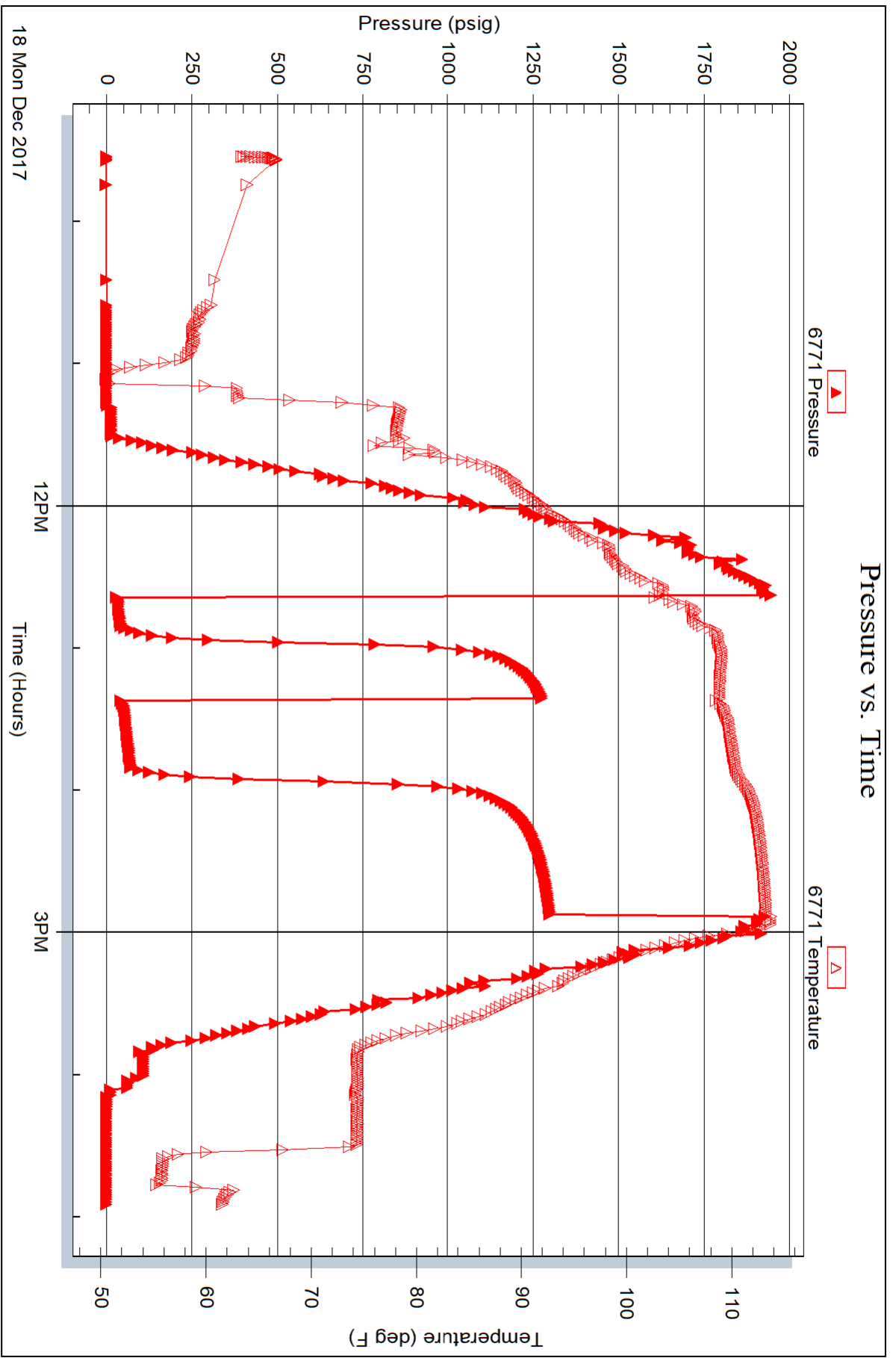
Serial #: 6771

Inside

Carmen Schmitt, Inc.

Werth #1

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

7-14S-25W Trego, KS

Werth #1

Job Ticket: 63337

DST#: 2

Test Start: 2017.12.18 @ 23:44:46

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:17:52
 Time Test Ended: 05:50:22
 Interval: **3931.00 ft (KB) To 3960.00 ft (KB) (TVD)**
 Total Depth: 3960.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2436.00 ft (KB)
 2431.00 ft (CF)
 KB to GR/CF: 5.00 ft

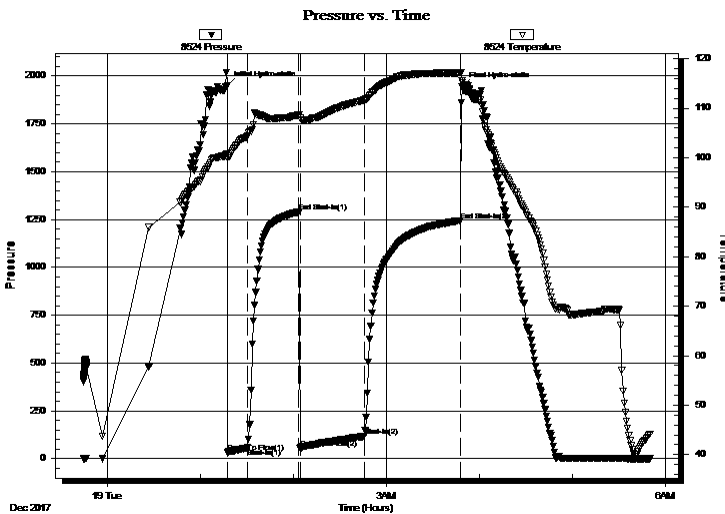
Serial #: 8524

Outside

Press@RunDepth: 116.39 psig @ 3957.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.12.18 End Date: 2017.12.19 Last Calib.: 2017.12.19
 Start Time: 23:44:47 End Time: 05:50:22 Time On Btm: 2017.12.19 @ 01:17:37
 Time Off Btm: 2017.12.19 @ 03:49:07

TEST COMMENT: 15- IF- BOB 7mins
 30- IS- Surface blow died in 2mins
 45- FF- BOB 5mins
 60- FSI- .5" blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1951.02	100.85	Initial Hydro-static
1	32.43	100.05	Open To Flow (1)
13	56.15	104.18	Shut-In(1)
46	1289.58	108.57	End Shut-In(1)
47	54.67	108.00	Open To Flow (2)
89	116.39	111.60	Shut-In(2)
151	1244.96	117.11	End Shut-In(2)
152	1946.08	115.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
187.00	GSMCO, 10%G 5%M 85%O	2.39
32.00	SOCM, 5%O 95%M	0.45
0.00	412' GIP	0.00

* Recovery from multiple tests

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

7-14S-25W Trego, KS

Werth #1

Job Ticket: 63337 **DST#: 2**

Test Start: 2017.12.18 @ 23:44:46

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:17:52
 Time Test Ended: 05:50:22
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Interval: **3931.00 ft (KB) To 3960.00 ft (KB) (TVD)**
 Total Depth: 3960.00 ft (KB) (TVD)
 Reference Elevations: 2436.00 ft (KB)
 2431.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

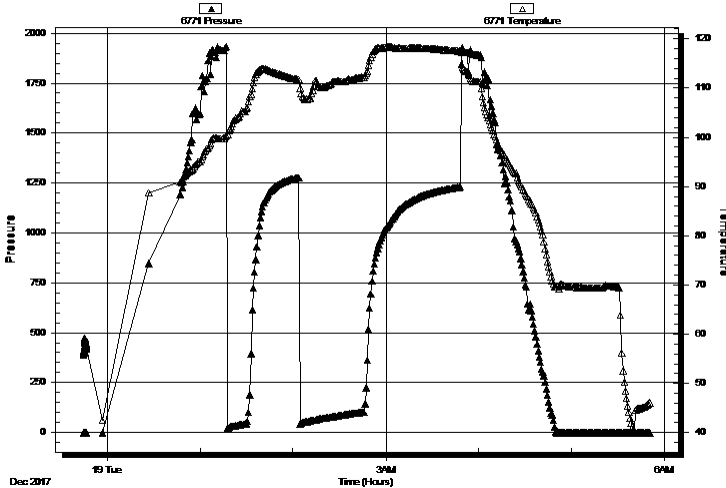
Serial #: 6771

Inside

Press@RunDepth: psig @ 3957.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.12.18 End Date: 2017.12.19 Last Calib.: 2017.12.19
 Start Time: 23:44:55 End Time: 05:50:15 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15- IF- BOB 7mins
 30- IS- Surface blow died in 2mins
 45- FF- BOB 5mins
 60- FSI- .5" blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
187.00	GSMCO, 10%G 5%M 85%O	2.39
32.00	SOCM, 5%O 95%M	0.45
0.00	412' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

7-14S-25W Trego, KS
Werth #1
Job Ticket: 63337 **DST#: 2**
Test Start: 2017.12.18 @ 23:44:46

Mud and Cushion Information

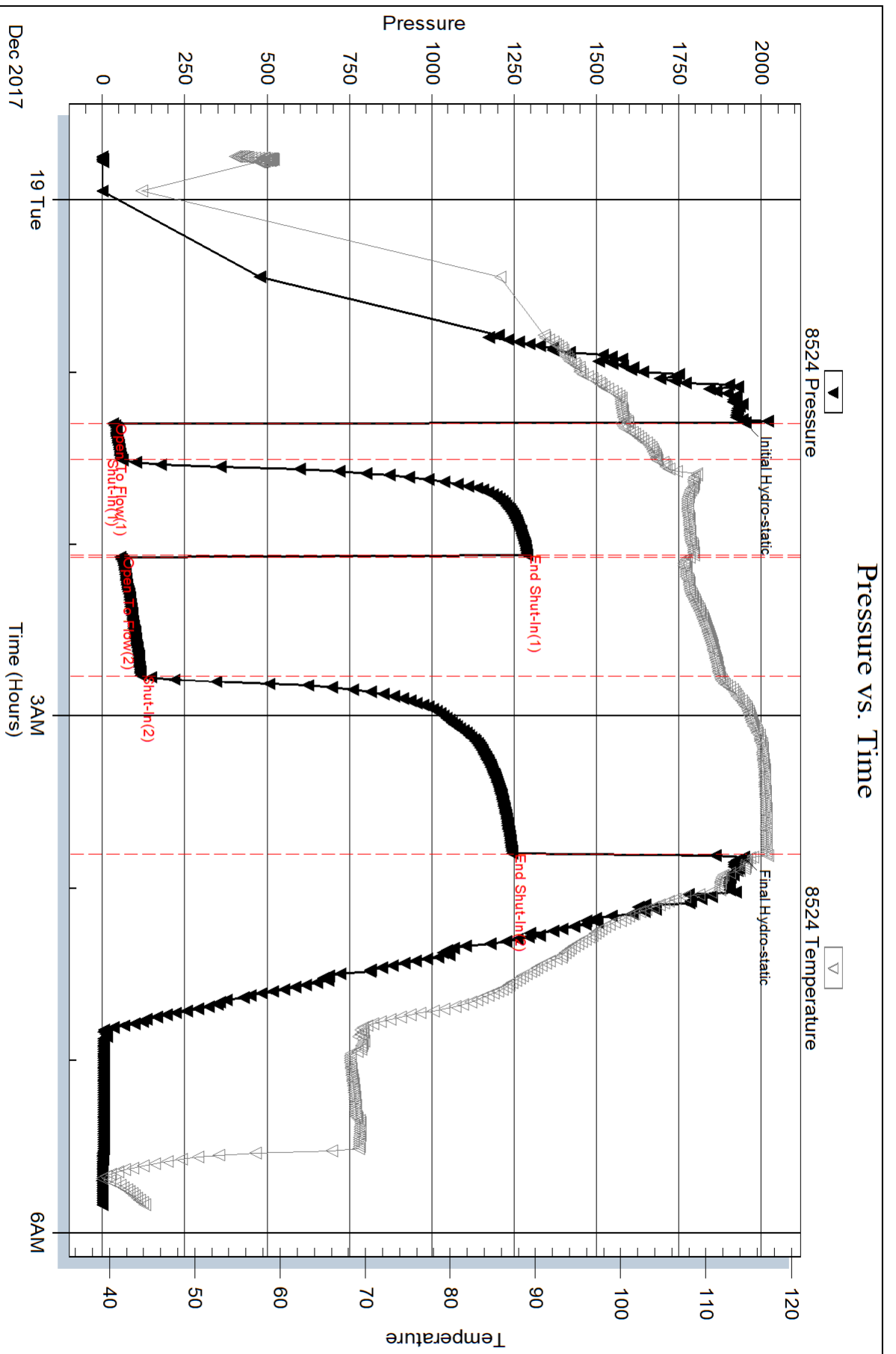
Mud Type: Gel Chem	Cushion Type:	Oil API: 32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.39 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3500.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
187.00	GSMCO, 10%G 5%M 85%O	2.392
32.00	SOCM, 5%O 95%M	0.454
0.00	412' GIP	0.000

Total Length: 219.00 ft Total Volume: 2.846 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



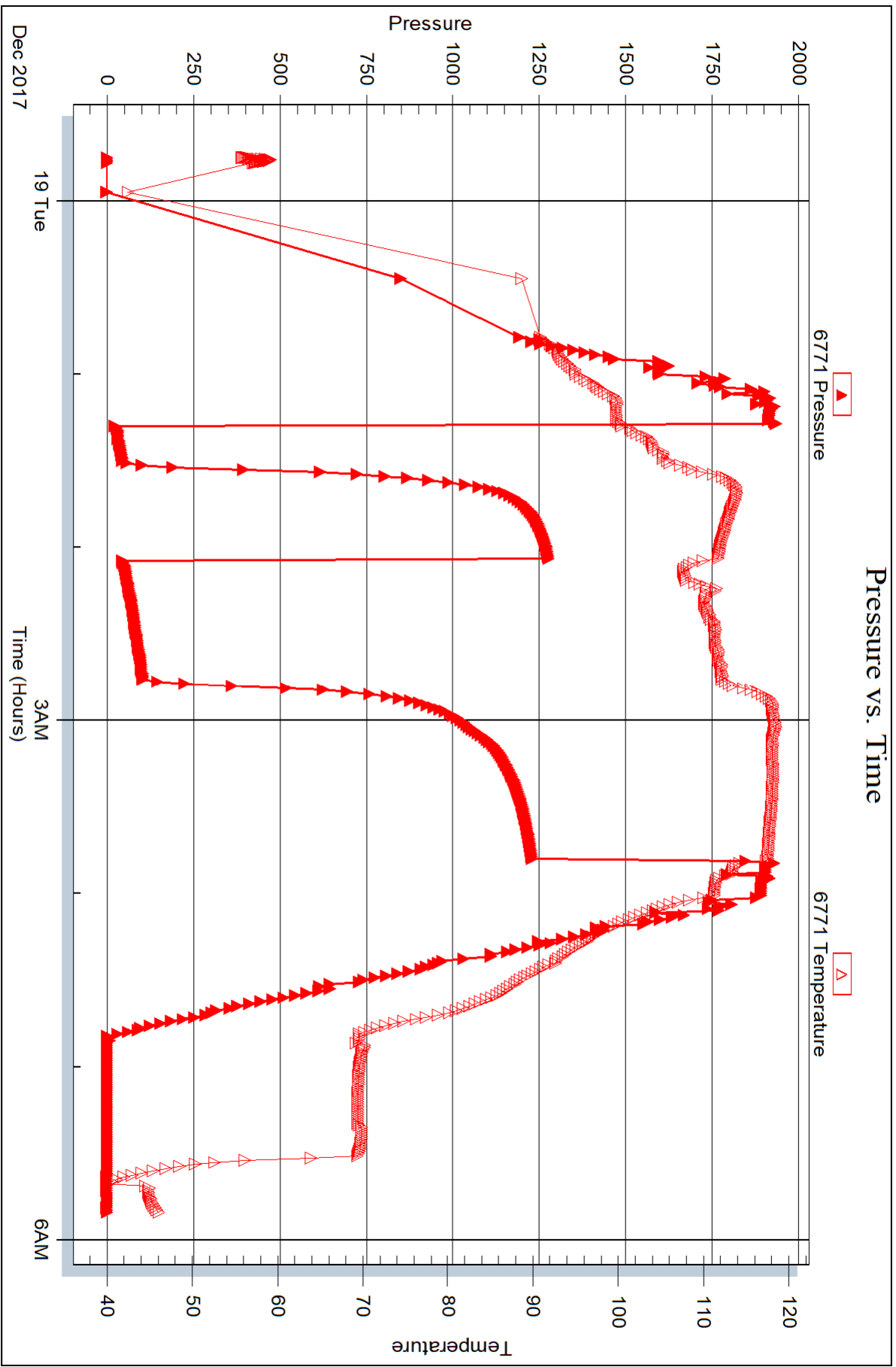
Serial #: 6771

Inside

Carmen Schmitt, Inc.

Werth #1

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

7-14S-25W Trego, KS

Werth #1

Job Ticket: 63338

DST#: 3

Test Start: 2017.12.19 @ 13:31:30

GENERAL INFORMATION:

Formation: **LKC "L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:19:06
 Time Test Ended: 19:41:51
 Interval: **3967.00 ft (KB) To 4000.00 ft (KB) (TVD)**
 Total Depth: 4000.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2436.00 ft (KB)
 2431.00 ft (CF)
 KB to GR/CF: 5.00 ft

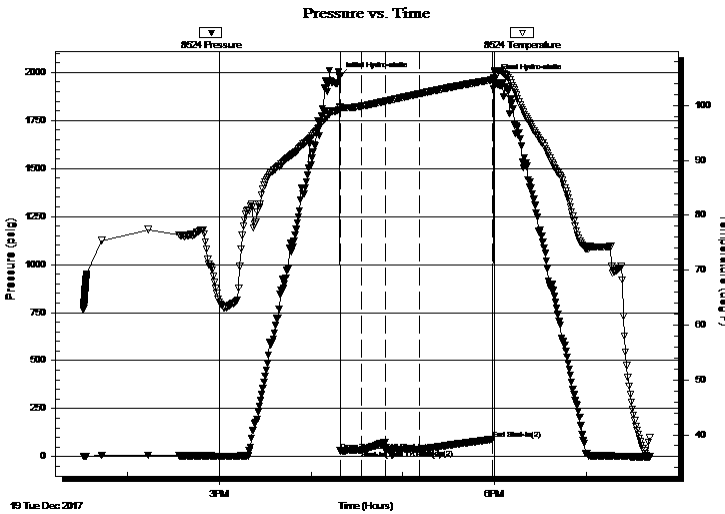
Serial #: 8524

Outside

Press@RunDepth: 37.38 psig @ 3997.00 ft (KB)
 Start Date: 2017.12.19 End Date: 2017.12.19
 Start Time: 13:31:31 End Time: 19:41:51
 Capacity: 8000.00 psig
 Last Calib.: 2017.12.19
 Time On Btm: 2017.12.19 @ 16:18:51
 Time Off Btm: 2017.12.19 @ 17:59:51

TEST COMMENT: 15- IF- Slow ly built to .75"
 15- IS- No blow
 20- FF- Slow ly built to 1"
 50- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1977.47	99.69	Initial Hydro-static
1	30.12	99.24	Open To Flow (1)
15	34.27	99.88	Shut-In(1)
30	76.80	100.78	End Shut-In(1)
30	33.13	100.79	Open To Flow (2)
52	37.38	102.15	Shut-In(2)
100	90.85	104.73	End Shut-In(2)
101	1969.15	106.21	Final Hydro-static

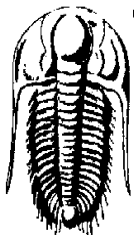
Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM, 10%O 90%M	0.07

* Recovery from multiple tests

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

7-14S-25W Trego, KS

Werth #1

Job Ticket: 63338 **DST#: 3**
Test Start: 2017.12.19 @ 13:31:30

GENERAL INFORMATION:

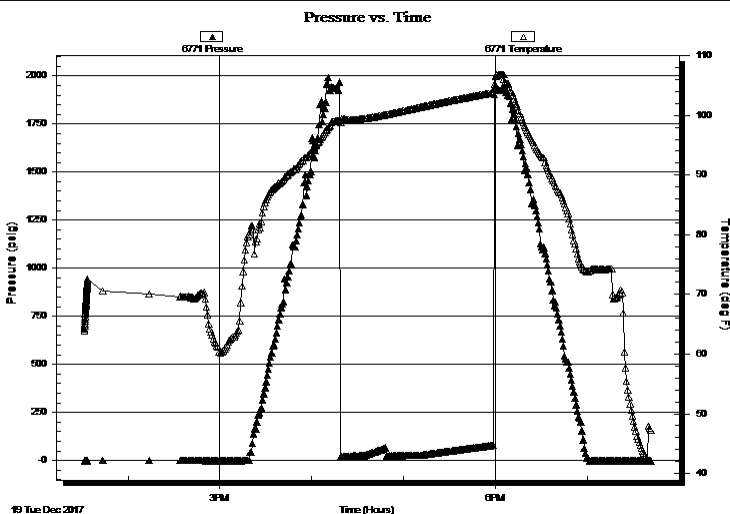
Formation: **LKC "L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:19:06
Time Test Ended: 19:41:51
Interval: **3967.00 ft (KB) To 4000.00 ft (KB) (TVD)**
Total Depth: 4000.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2436.00 ft (KB)
2431.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Brannan Lonsdale
Unit No: 73

Serial #: 6771

Inside

Press@RunDepth: psig @ 3997.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.12.19 End Date: 2017.12.19 Last Calib.: 2017.12.19
Start Time: 13:31:40 End Time: 19:41:45 Time On Btm:
Time Off Btm:

TEST COMMENT: 15- IF- Slow ly built to .75"
15- IS- No blow
20- FF- Slow ly built to 1"
50- FSI- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM, 10%O 90%M	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

7-14S-25W Trego, KS
Werth #1
Job Ticket: 63338 **DST#: 3**
Test Start: 2017.12.19 @ 13:31:30

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: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM, 10%O 90%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

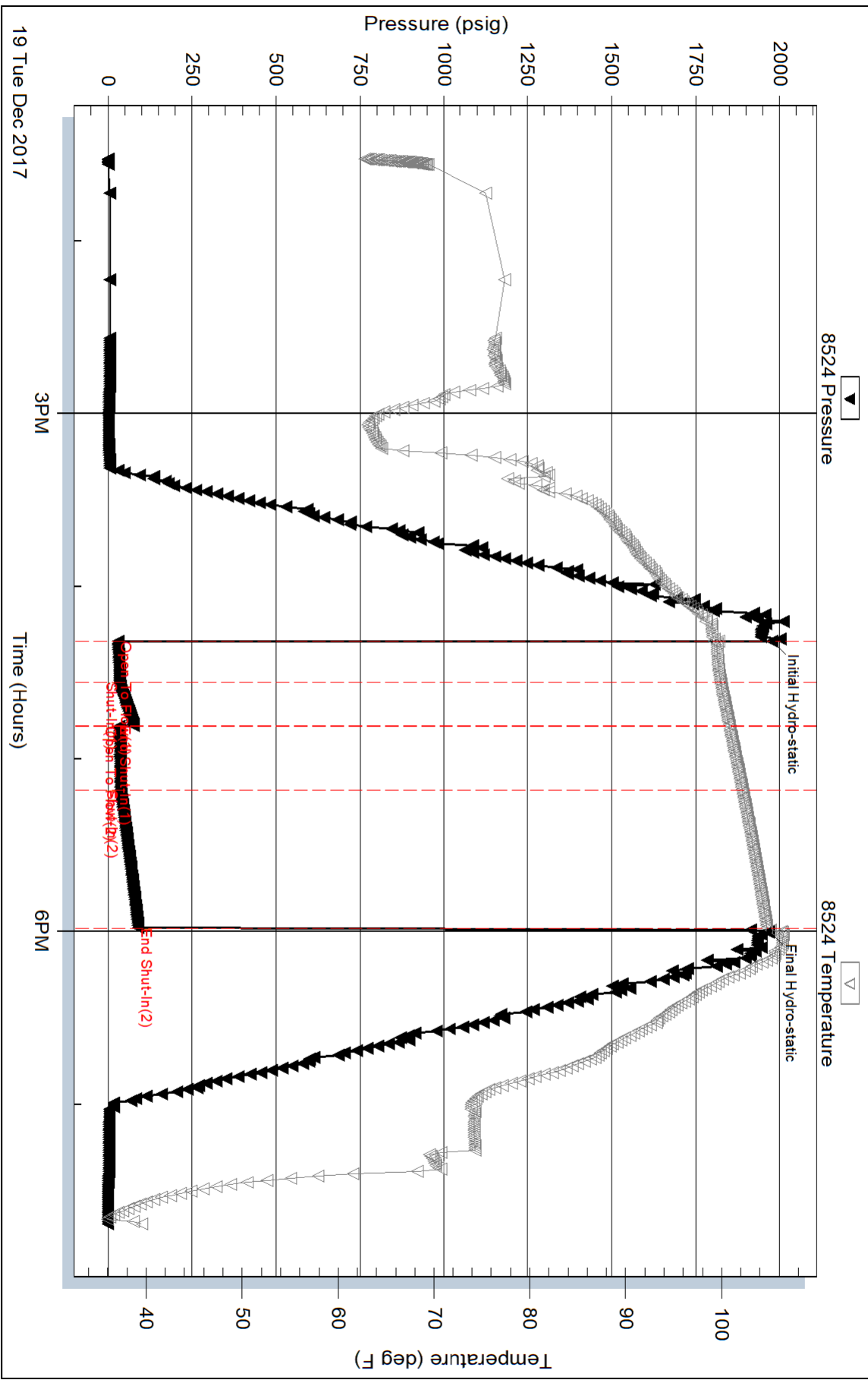
Serial #: 8524

Outside Carmen Schmitt, Inc.

Werth #1

DST Test Number: 3

Pressure vs. Time



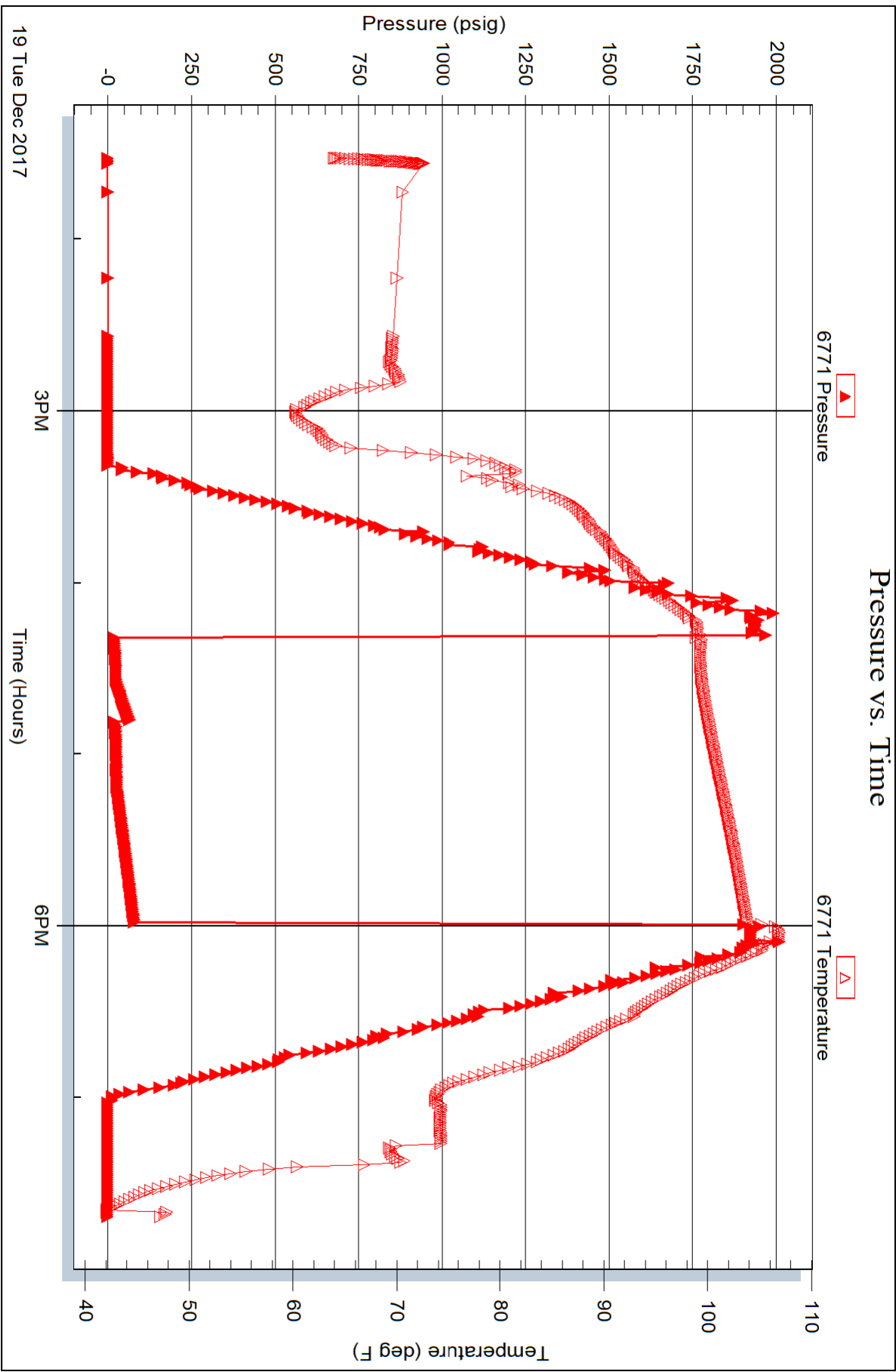
Serial #: 6771

Inside

Carmen Schmitt, Inc.

Werth #1

DST Test Number: 3





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

Well Name: Werth #1 - Carmen Schmitt, Inc.
API: 15-195-23032-00-00
Location: SW-SE-NW-NE Section 7-14S-25W
License Number: KCC #6569
Spud Date: December 14, 2017
Surface Coordinates: 993'FNL & 1752'FEL,
of Section
Bottom Hole Vertical Wellbore
Coordinates:
Ground Elevation (ft): 2431 Ft. K.B. Elevation (ft): 2436 Ft.
Logged Interval (ft): 3400 Ft. To: 4360 Ft. Total Depth (ft): RTD 4360 Ft. LTD 4358 Ft.
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Chemical

Region: Trego County, Kansas
Drilling Completed: December 21, 2017
Results: 5-1/2" Casing Set
Field: Overland Northeast

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 set production casing for further testing on the "Werth #1", on December 21, 2017.

Respectfully submitted,
M. Bradford Rine, geologist

Carmen Schmitt, Inc.
"Werth #1"
Section 07-14S-25W, Trego County, Kansas



Drilling Information

Rig: Murfin Drlg, Rig #16
Pump: Emsco D375 6x14
Drawworks: Cardwell Royale
Collars: 533' 2-1/4 x 6-1/4 +/-
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Andrew Dinkel

Mud: Mudco (Gary Schmidtberger)
Gas Detector: None
Drill Stem Tests: Trilobite (Brannon Lonsdale)
Logs: Pioneer (J. Henrickson, I. Mabb)
Water: Harvey Lease Irrigation Well (Walker Tank)
Company Representatives:
Office: Carmen Schmitt
Field: Curtis Hitchmann

Daily Drilling Status

Date: **Operations/Depth/Comments**
 12-14-17 **MIRT, RU, Spud @ 0'**
 12-15-17 **Drilling @ 500'**
 12-16-17 **Drilling @ 2400'**
 12-17-17 **Drilling @ 3340'**
 12-18-17 **Running Short Trip for DST #1 @ 3935'**
 12-19-17 **Trip in Hole with Bit, after DST 2 @ 3960'**
 12-20-17 **Drilling @ 4155'**
 12-21-17 **Laying Down Drill Pipe to Run Casing @ 4360'**

	Results:			(Well A)		(Well B)		(Well C)						
	Carmen Schmitt, Inc.			Carmen Schmitt, Inc		Phillips Expl		Carmen Schmitt, Inc						
	Werth #1			WP Unit #1-7		Purrinton-Werth 1-6		WP Unit #2-7						
	993'FNL & 1752'FEL			2626'FNL & 1494'FWL		50'FSL & 1300'FEL		1700'FNL & 2310'FWL						
	KB	2436		KB	2439		KB	2431		KB	2430	Well A	Well B	Well C
Sec. 07-14S-25W			Sec. 07-14S-25W			Sec. 06-14S-25W			Sec. 07-14S-25W			Comparison(s)		
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	E-Log	Datum					
Anhydrite	1899	1897	539	1893	546	1895	536	1885	545	-7	3	-6		
B/Anhydrite	1937	1933	503	1930	509	1935	496	1925	505	-6	7	-2		
Tarkio	NC	3282	-846	3283	-844	3280	-849	3278	-848	-2	3	2		
Heebner Sh.	3670	3666	-1230	3668	-1229	3663	-1232	3663	-1233	-1	2	3		
Toronto	3690	3686	-1250	3688	-1249	3682	-1251	3683	-1253	-1	1	3		
Lansing	3710	3706	-1270	3706	-1267	3701	-1270	3702	-1272	-3	0	2		
Muncie Creek Sh.	3859	3856	-1420	3856	-1417	3852	-1421	3853	-1423	-3	1	3		
Stark Sh.	3937	3935	-1499	3937	-1498	3934	-1503	3928	-1498	-1	4	-1		
B/Kansas City	3991	3987	-1551	3992	-1553	3984	-1553	3982	-1552	2	2	1		
Marmaton	4030	4029	-1593	4036	-1597	4027	-1596	4023	-1593	4	3	0		
Altamont	4052	4050	-1614	4056	-1617	4046	-1615	4045	-1615	3	1	1		
Pawnee	4133	4130	-1694	4136	-1697	4127	-1696	NDE	NA	3	2	NA		
Ft. Scott	4195	4192	-1756	4200	-1761	4189	-1758	NDE	NA	5	2	NA		
Cherokee Sh.	4219	4217	-1781	4222	-1783	4211	-1780	NDE	NA	2	-1	NA		
Mississippian	4304	4302	-1866	4296	-1857	4294	-1863	NDE	NA	-9	-3	NA		
Total Depth	4360	4358	-1922	4375	-1936	4398	-1967	4128	-1698	14	45	-224		

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: Ran 211 ft of 8-5/8" 23# new Csg, set @ 218'. (Copeland) Cement with 195 sx 60/40 POZ, 3%CC, 2% gel. Cement did circulate. Plug down at 5:30 pm, 12-14-17.

Production: Ran 103 JTS. new 14# 5.5 casing. Tagged bottom 4360'. Picked up 3 FT. Set pipe at 4357FT. Shoe JT. 42.42 FT. with baskets on 2,32,58th collars, centralizers on 3,5,7,9,11,13,15,17,19,21,59& 60 JTS. Broke circulation and circulated for 1 HR. (Swift Service's) plugged RH. with 30 SKS. and MH. with 20 SKS. Mixed 500 GAL. mud flush followed by 20 BBLs. KCL. flush. Mixed 405 SKS. SMD @ 11.2 PPG. followed by 150 SKS.EA 2 at 15.5#. Washed pump out dropped wiper plug and displaced 105 BBLs landed @1700#. Plug held. Circulated 20 BBLs cement to pit. Job Complete. Rig released at 5:45 pm, December 21, 2017.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	Varel	TC11rr	0	218	02.75
2	7-7/8	HTC	GX20Cn	218	4360	87.75

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.25*	218'	0.50*	3935'
0.75*	2403'	0.75*	4360'

DST #1: 3913-3935 (LKC "J")

Times: 15-30-30-60

**Initial Open: Stg Blow, b.o.b. 9 min,
no return blow**

Final Open: Stg Blow, b.o.b. 4 min,

Wk surface return blow, died 23 min

Rec: 139' OGCM: 10%g 35%o 55%m

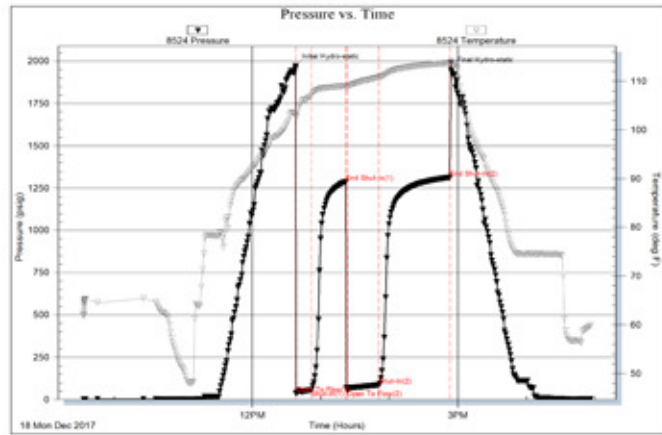
And, 174' gas in pipe

IHP: 1970 FHP: 1949

IFP: 37-58 FFP: 59-86

ISIP: 1288 FSIP: 1313

BHT: 114°F



DST #2: 3931-3960 (LKC "K")

Times: 15-30-45-60

**Initial Open: Stg Blow, b.o.b. 7 min,
wk surface return blow died 2 min**

**Final Open: Stg Blow, b.o.b. 5 min,
wk return blow built to 1/2" i.b.**

**Rec: 412' gas in pipe & 219' Total Fluid
187' GMCO: 10%g 85%o 05%m**

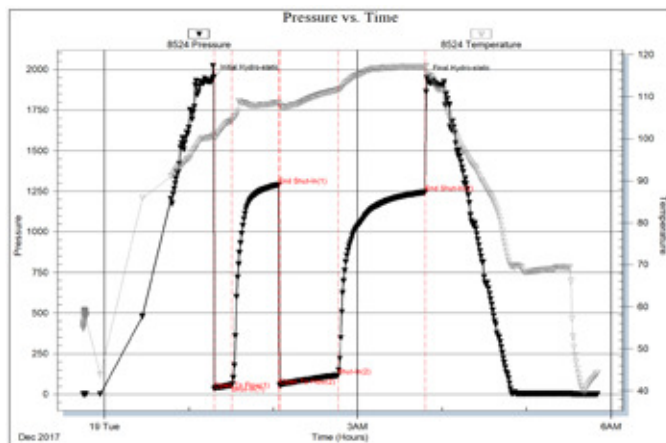
32' SOCM: 05%o 95%m

IHP: 1951 FHP: 1946

IFP: 32-56 FFP: 55-116

ISIP: 1290 FSIP: 1245

BHT: 117°F



DST #3: 3967-4000 (LKC "L")

Times: 15-15-20-50

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

Final Open: Wk Blow, built to 1" i.b.

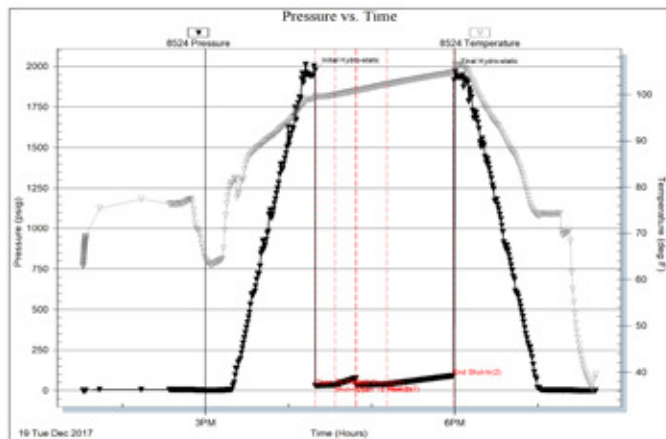
Rec: 15' SOCM: 10%o 90%m

IHP: 1977 FHP: 1969







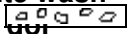



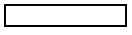








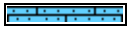
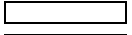





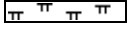

IFP: 30-34 FFP: 33-37

ISIP: 77 FSIP: 91






















BHT: 105°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		Meta		Siltst		
	Anhy		Congl		Mrlst		Ss		

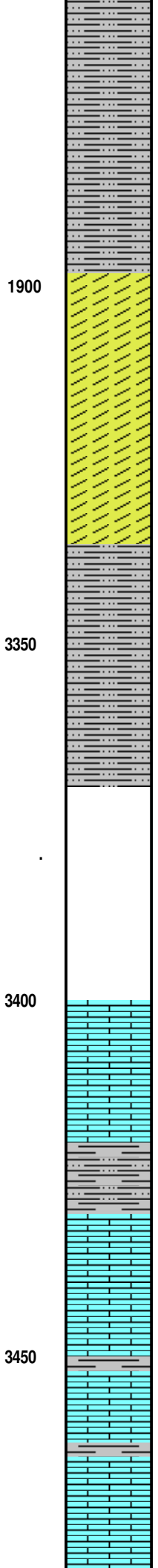
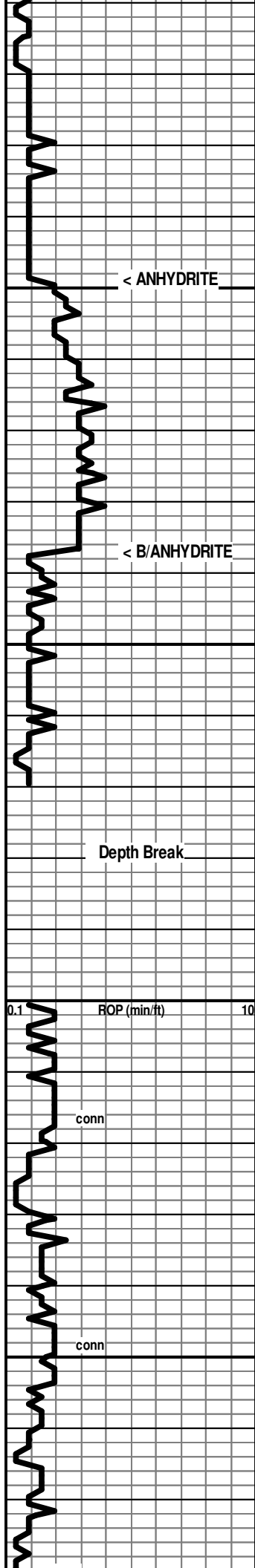
Accessories

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

Other Symbols

OIL SHOW		Even		Dead	INTERVAL	
	Oil & gas show		Spotted		Gas	
	Gas show		Trace/questionable			Core
						Dst

ROP (min/ft)		Depth	Lithology	Geological Descriptions	Remarks
ROP (min/ft)	ROP (min/ft)				
0.1	10	1800			
		50			



← 1899 (+537)

Anhydrite Interval: Based on drill time only!

← 1937 (+499)

Depth Break

0.1 ROP (min/ft) 10

3400

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

conn

Sh gy, silty in pt

Ls cr-tan-gy, fn xln, dns, foss

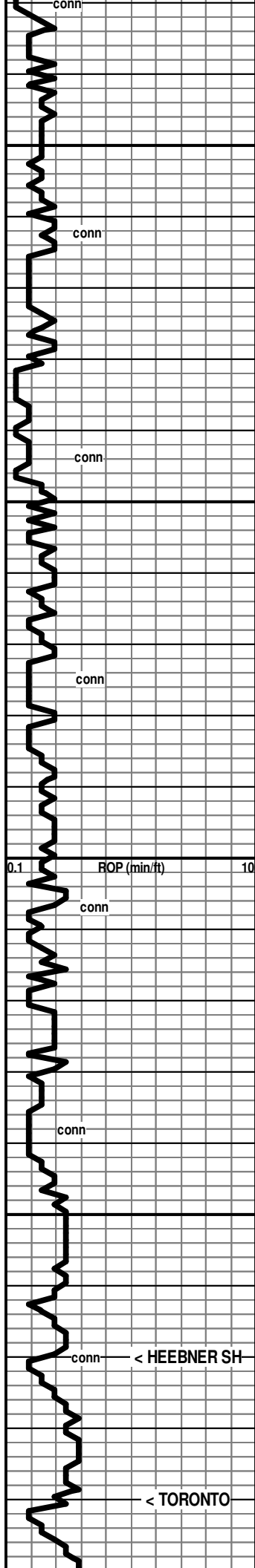
conn

3450

Sh gy

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

* Displace & Mudup @ 3289 Ft.!



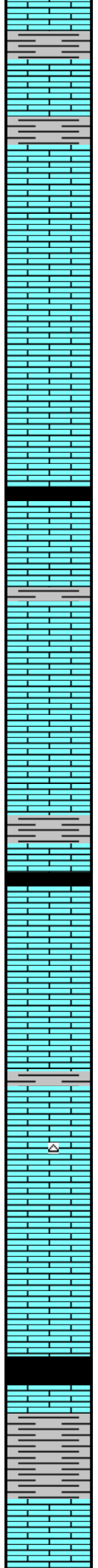
3500

3550

3600

3650

3700



Sh gy

Ls wh-cr-tan, vfn-fn xln, mostly dns, some chalky & soft, foss in pt

Sh gy

Ls cr, fn xln, mostly dns with some pr xln por, foss in pt

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

Sh gy-black, carb in pt

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

Ls cr-tan, fn xln, pr to fr xln por in pt, Rr scatt pp pores, foss

Sh gy

Ls cr-tan-gy, fn xln, dns in pt, pr-fr xln por in pt, some subsucr dolom in pt, foss

Sh gy-dk gy

Ls wh-cr, fn xln, pr-fr xln por in pt, chalky in pt, foss, chert: fresh, gy, foss, subtransl

Ls wh-cr, fn xln, pr xln por in pt, dns in pt, chalky in pt, foss, chert: fresh, gy, foss, subtransl

<----- 3670 (-1234)
Sh black, carb (abund in 3690' spl)
Ls cr, fn xln, pr xln por, foss

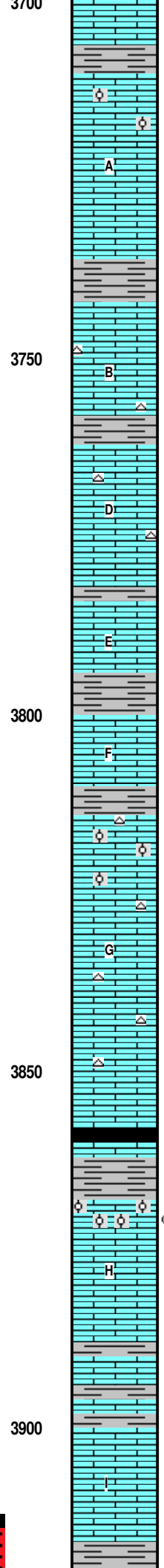
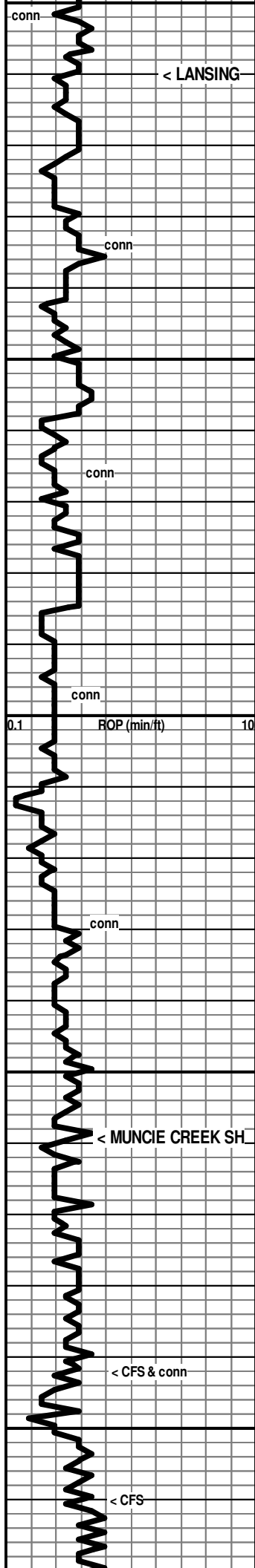
Sh gy-dk gy-grnish

<----- 3690 (-1254)
Ls wh-cr, fn xln, pr-fr xln por in pt, foss

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

Mudcheck: Drlg @ 3542':

Vis	Wt	WL	LCM	PV	YP
65	8.8	6.4	3	19	27
Chl	Hd	pH	Solids		
3300	Tr	11.5	3.4		



3700

< LANSING

3710 (-1274)

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

Ls cr,fn xln, pr xln por in pt, dns in pt, foss

Sh black-dk gy-gy, carb in pt

3750

Ls wh-cr, fn xln, pr xln por to dns, chalky in pt, scatt shallow vugs, foss, chert: fresh, tan, transl

Sh gy-dk gy

Ls wh-cr, fn xln, dns to pr xln por, scatt crs embedded calcite, foss to abund foss

Ls cr-tan-gy, vfn-fn xln, dns, foss, chert: fresh, tan, transl

Sh gy

Ls wh-cr, fn xln, some pr-fr xln por, much dns to chalky, foss

3800

Ls wh-cr-tan, fn xln, pr-fr xln por, submealy text in pt, foss

Ls wh-cr, fn xln, chalky in pt, pr-fr xln por in pt, ool & oom in pt, chert: cr, fresh, transl

Ls cr, vfn-fn xln, dns to pr xln por, foss in pt, chert: fresh, cr, transl

3850

< MUNCIE CREEK SH

3859 (-1423)

Sh black, carb

Sh gy-gmish

Ls wh-cr, fn xln, pr xln por, ool with scatt oom, some chalky

[No Odor, No fluor, few pcs total with trace of spots of stn, NSFO]

Ls wh-cr-tan, vfn-fn xln, mostly dns, some chalky sli foss in pt

3900

< CFS & conn

Sh gy-gmish

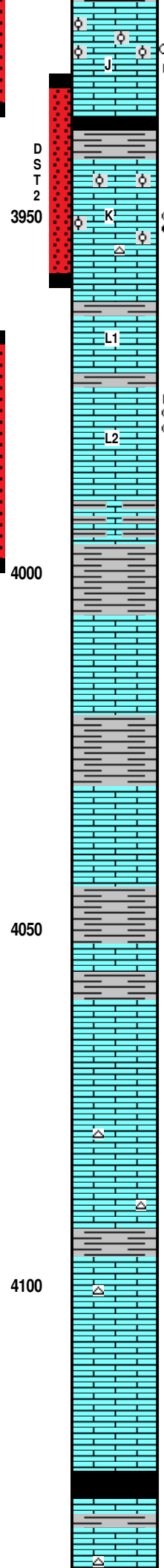
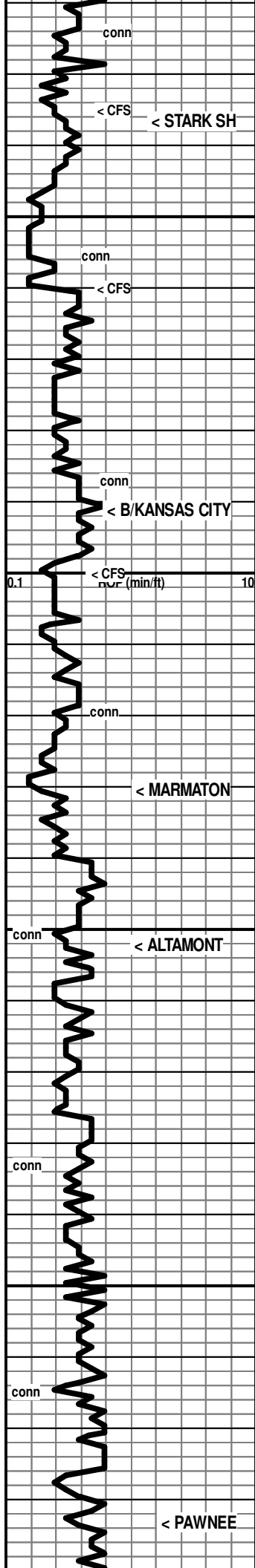
< CFS

Ls wh-cr-tan, vfn-fn xln, dns, foss

Ls cr, fn xln, dns, foss in pt

DST #1: 3913-3935 (LKC "J")
 Times: 15-30-30-60
 Initial Open: Stg Blow, b.o.b. 9 min, no return blow
 Final Open: Stg Blow, b.o.b. 4 min, Wk surface return blow, died 23 min
 Rec: 139' OGCM: 10%g 35%o 55%m and 174' gas in pipe
 IHP: 1970 FHP: 1949
 IFP: 37-58 FFP: 59-86
 ISIP: 1288 FSIP: 1313
 BHT: 114°F

Pipe Strap @ 3935':
 .45' Short to Board!



Sh gy-gmish gy-grn
 Ls wh-cr-tan, fn xln, mostly dns, some pr xln por, ool in pt

3937 (-1501)
 Trace of dk gy-grn-black shale in spls
 (3950' & 3960' spl remains 90% shales)
 Ls wh-cr-tan, fn xln, chalky in pt, dns to pr xln por in pt, foss & ool
 Ls wh, fn xln, abund subchalky to chalky & soft, abund pr vis xln por, scatt pp pores, (washes white), ool, chert: fresh wh, subtransl
[Fnt Odor, Abund spotty-patchy-even dull to mod Fluor, Abund spotty-patchy-even tan-lt brn stn with mostly sli shows of tan-brn FO & NVL oil, some fr show of gassy FO, some barren]

L1
 Ls wh-cr-tan, fn xln, mostly dns, some chalky, some pr xln por, foss
 Sh gy
 Ls cr-tan, fn xln, mostly subchalky-dns, some pr xln por, foss, ool in pt with scatt interool pr pores
[V Fnt Odor, Rr spotty-patchy dull fluor, low % pcs with spotty tan-dk stn to spotty blk resid stn, on crush Rr trace shows of tar/resid oil and trace of NVL brn oil & oily scum]

L2

3991 (-1555)
 Ls cr, fn xln, dns to shaley in pt?
 Sh gy-black

Ls cr-tan-gy, vfn-fn xln, dns, sli foss

Sh gy-gmish gy, subsilty text in pt

4030 (-1594)
 Ls wh-cr-tan-gy, vfn-fn xln, mostly dns & firm, some chalky & soft, sli foss in pt, some ool in chalky cem

Sh gy-dk gy-black

4052 (-1616)
 Ls wh-cr-tan, vfn-fn xln, mostly dns & firm, some softer & subchalky

Ls wh-cr, vfn xln, mostly dns & firm, some subchalky, Rr foss, Chert: fresh, tan, transl

Sh gy

Ls wh-cr-tan-gy, vfn-fn xln, dns in pt, subchalky in pt, foss in pt, cherty

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

Sh black to gy, carb in pt

4133 (-1697)

Show Descr. →

[No Odor, Few pcs with dull spotty fluor with spotty brn-black stn with trace show of VSli gassy micro-drops FO and black gilsonitic stn]

7:00 AM, December 18, 2017

Mudcheck: CTCH @ 3935':

Vis	Wt	WL	LCM	PV	YP
58	9.0	6.4	3	17	26
Chl	Hd	pH	Solids		
3500	Tr	11.0	4.8		

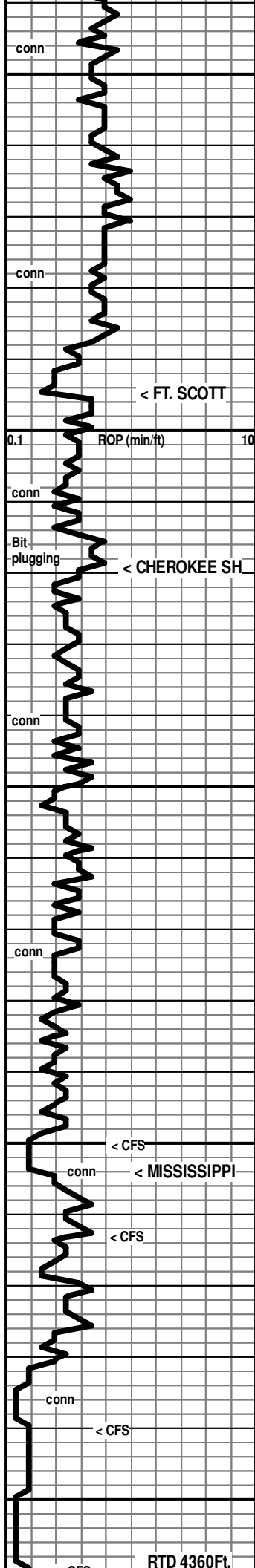
7:00 AM, December 19, 2017

DST #2: 3931-3960 (LKC "K")
 Times: 15-30-45-60
 Initial Open: Stg Blow, b.o.b. 7 min, wk surface return blow died 2 min
 Final Open: Stg Blow, b.o.b. 5 min, wk return blow built to 1/2" i.b.
 Rec: 412' gas in pipe & 219' Total Fluid
 187' GMCO: 10%g 85%o 05%
 32' SOCM: 05%o 95%
 IHP: 1951 FHP: 1946
 IFP: 32-56 FFP: 55-116
 ISIP: 1290 FSIP: 1245
 BHT: 117°F

Mudcheck: TIH/Bit @ 3960':

Vis	Wt	WL	LCM	PV	YP
65	9.0	6.4	2	19	33
Chl	Hd	pH	Solids		
3000	Tr	11.0	4.8		

DST #3: 3967-4000 (LKC "L")
 Times: 15-15-20-50
 Initial Open: Wk Blow, built to 3/4" i.b.
 Final Open: Wk Blow, built to 1" i.b.
 Rec: 15' SOCM: 10%o 90%
 IHP: 1977 FHP: 1969
 IFP: 30-34 FFP: 33-37
 ISIP: 77 FSIP: 91
 BHT: 105°F



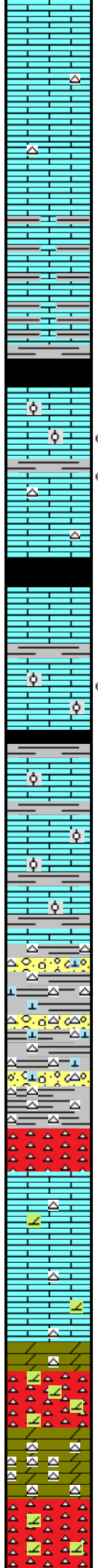
4150

4200

4250

4300

4350



Ls cr-tan-gy, vfn-fn xln, dns, foss in pt, chert: fresh, pl orange; spls 50% shales

Ls cr-tan-gy, vfn-fn xln, dns, some chalky edges, foss in pt, chert: fresh, pl orange, increase in shale %

Ls tan-gy, vfn xln, dns, some subchalky edges; spls 50% shales

Ls tan-gy, vfn xln, dns, some subchalky edges; spls 80% shales

Sh gy-dk gy-black, carb in pt

<----- 4195 (-1759)

Ls wh-cr-tan, fn xln, chalky in pt, mostly dns, Rr patch of pr xln por, foss, Rr ool pcs (well cem)

[4220' spl: No Odor, Rr spots of v dull fluor, NSFO, V Rr scant spots of brn strn]

Ls wh-cr-tan-gy, vfn-fn xln, dns, foss to abund foss, chert: fresh, than, spic, transl

<----- 4219 (-1783)

Sh black, carb

Ls wh-cr, fn xln, abund chalky, abund dns, foss

Sh gy-dk gy

Ls wh-cr, fn xln, chalky to dns with v Rr patches of pr xln por, foss, ool (well cem)

[No Odor, No fluor, found a few spots total of brn strn, NSFO]

Sh gy-black

Ls wh-cr-tan, vfn-fn xln, dns & firm to soft & subchalky to chalky, foss, ool in pt, some ls tan vfn xln, smooth text, hard

Shales gy-dk gy-black

Cgl: Mix of Shales: red-gy-grn-yell, earthy to silty text; Chert: fresh to subgrainy, orange, reddish, tan, yell, subopaq-opaq to subtransl.; some wh Ls

[No Show]

Cgl: Mix of Shales: red-gy-grn-yell, earthy to silty text; Chert: fresh to subgrainy, orange, reddish, tan, yell, subopaq-opaq to subtransl.; some Ls: wh-tan-gy, fn xln, dns

Mostly as above with increase in fresh various colored chert

[No Show]

<----- 4304 (-1868)

Ls wh-cr, fn xln, dns, scatt dolom pcs possibly cherty; spls 70% shales

[No Show]

Ls wh-cr-gy, fn xln, subchalky in pt, dns in pt, foss in pt, scatt dolom pcs, some recemented bracciated pcs, some fresh chert; Spls 70% shales

Dol wh-cr, fn xln, sucrosic, pr-fr xln por, cherty (Spls 65% Shales)

Chert: fresh, wh-cr-tan, spiculitic, transl to subtr

[No Show]

40% Various colored shales; 60% Dol & Chert: Dol, wh-cr, fn xln, pr-fr xln por, scatt vugs, sucrt text; Chert: fresh, wh-tan-cr-gy, spic in pt, transl

[No Show]

7:00 AM, December 20, 2017

Mudcheck: Drlg @ 4176':

Vis	Wt	WL	LCM	PV	YP
56	9.2	6.8	3	14	21
Chl	Hd	pH	Solids		
3100	Tr	10.5	6.3		

* Partial Bit Plugging began approx 4215 ft!

< FT. SCOTT

< CHEROKEE SH

< CFS

< MISSISSIPPI

< CFS

< CFS

RTD 4360Ft

0.1 ROP (min/ft) 10

4400

4450

4500



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
12/21/2017	30837

BILL TO
Carmen Schmitt, Inc. P. O. Box 47 915 Harrison Great Bend, KS 67530-0047

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Werth	Trego	Murfin	Oil	Development	Cement Long Str...	Jonathan

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	40	Miles	5.00	200.00
579D	Pump Charge - Two-Stage & Top To Bottom LongString	1	Job	1,700.00	1,700.00
290	D-Air	7	Gallon(s)	42.00	294.00T
281	Mud Flush	500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)	4	Gallon(s)	25.00	100.00T
402-5	5 1/2" Centralizer	12	Each	60.00	720.00T
403-5	5 1/2" Cement Basket	3	Each	250.00	750.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	225.00	225.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	300.00	300.00T
419-5	5 1/2" Rotating Head Rental	1	Each	200.00	200.00T
330	Swift Multi-Density Standard (MIDCON II)	450	Sacks	15.75	7,087.50T
325	Standard Cement	150	Sacks	12.25	1,837.50T
284	Calseal	7	Sack(s)	30.00	210.00T
283	Salt	800	Lb(s)	0.20	160.00T
285	CFR-1	70	Lb(s)	4.50	315.00T
276	Flocele	151	Lb(s)	2.25	339.75T
581D	Service Charge Cement	600	Sacks	1.50	900.00
583D	Drayage	1,210	Ton Miles	0.75	907.50
	Subtotal				16,871.25
	Sales Tax Trego County			8.00%	1,053.10

7/10/43
19380.0001
Well file
Cement Long String

We Appreciate Your Business!	Total	\$17,924.35
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CHARGE TO: Carmen Schmitt, Inc
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

SERVICE LOCATIONS
 1. Hays, KS WELL/PROJECT NO. # 1 LEASE Werth COUNTY/PARISH Trego STATE KS CITY _____
 2. Ness City, KS TICKET TYPE SERVICE SALES CONTRACTOR Murkin Drilling RIG NAME/NO. _____ SHIPPED VIA CT DELIVERED TO Location
 3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Cement Log String WELL PERMIT NO. _____
 4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.
		LOC	ACCT	DF				
575		1			MILEAGE #113	40	mi	
579		1			Pump Charge - Top to Bottom Long String	1	EA	
290		1			D-Air	7	gal	
281		1			Mud Flush	500	gal	
221		1			Liquid KCL	4	gal	
402		1			Centralizer	12	EA	5 1/2"
403		1			Cement Basket	3	EA	
406		1			Latch Down Plug & Baffle	1	EA	
407		1			Insert Float Shoe w/ Auto fill	1	EA	
419		1			Rotating Head Rental	1	EA	

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

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

x Curtis Stephens
 DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.

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

SURVEY	AGREE	UN-DECIDED
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?		
WE UNDERSTOOD AND MET YOUR NEEDS?		
OUR SERVICE WAS PERFORMED WITHOUT DELAY?		
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?		
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO

CUSTOMER DID NOT WISH TO RESPOND

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

SWIFT OPERATOR Jonathan Boyd

APPROVAL _____



TICKET CONTINUATION

PO Box 466
 Ness City, KS 67560
 Off: 785-798-2300

CUSTOMER
Carmen Schmitt, Inc

WELL
Werth #1

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY	U/M	QTY	U/M
		LOC	ACCT	DF						
330		2				<i>Swift Multi-Density Std</i>	450	SRS	4470	1
325		2				<i>Standard Cement</i>	150	SRS	15725	1
284		2				<i>Calseal</i>	7	SRS		
283		2				<i>Salt</i>	800	LBS		
292285		2				CFR-1	70	LBS		
276		2				<i>Flocele</i>	151	LBS		
581		2								
581		2				SERVICE CHARGE <i>Cement</i>			CUBIC FEET 600	TONS 60,506 LBS
583		2				MILEAGE CHARGE	TOTAL WEIGHT 60,506	LOADED MILES 40	TON MILES 1210	

CO

JOB LOG

SWIFT Services, Inc.

DATE 12/21/17 PAGE NO. 1

CUSTOMER *Carmen Schmitt* WELL NO. *#1* LEASE *Werth* JOB TYPE *Cement Long String* TICKET NO. *30837*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							On location w/ Float Equip
								RTD 4360'
								LTD 4358'
								Shoe Jt 42.42'
								Balls @ 4314'
								Baskets - 2, 32, 58
								Centralizers - 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 59, 60
	0905							Start casing w/ Float Equipment
	1100							Break Circ on Bottom
	1200	2 1/2	8					Plug RH - 30 SKS
		2 1/2	5					Plug MH - 15 SKS
		5	12			400		Pump Mudflush
		5	20			400		Pump KCL spacer
	1210	5				300		Start Cmt - 40S SKS SMD Mix at 11.2 ppg
		5	225			200		Fin SMD start EA-2 Mix at 15.5 ppg
		5	261			Val		Fin Cmt
	1300							Drop Plug, Washout Pump + Lines.
	1305	8						Start Displacement
	1320	7	55			500		Catch Cmt
	1335	6	105			1200		Fin Displacement Lift - 1200 psi Land - 1700 psi
	1345							Washup truck Rackup
								Job Complete, Thanks! Jon, Austin, Shane, Russell
								Circ 20 Balls to pit.

COPELAND

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

Invoice

Acid & Cement

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

INVOICE NUMBER:
C45271-IN

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

LEASE: WETH 31

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
12/18/2017	C45271		12/14/2017		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
1.00	EA	PRICE AS AGREED MILEAGE, CEMENT, PUMP CHARGE FOR 8 5/8" SURFACE <i>7/10/43</i> <i>19,380.0001</i> <i>Well Rile</i> <i>Surface Cement</i>		0.00	2,999.00	2,999.00
REMIT TO:		COP		Net Invoice:		2,999.00
P.O. BOX 438 HAYSVILLE, KS 67060		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		TRECO Sales Tax:		239.92
RECEIVED BY:		NET 30 DAYS		Invoice Total:		3,238.92

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

