

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	Shelby Resources LLC
Well Name	SCHNEIDER UNIT 1-18
Doc ID	1336646

All Electric Logs Run

Dual Induction
Compensated Neutron
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	SCHNEIDER UNIT 1-18
Doc ID	1336646

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3519-20	Squeeze Casing	
4	3498-3502	100 gal 15% NE	



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shelby Resources LLC

18-18s-14w

621 17th STE 1155
Denver Co, 80293+1101

Schneider Unit #1-18

Job Ticket: 61861

DST#: 1

ATTN: Jeremy Schwartz/ Chr

Test Start: 2016.11.22 @ 12:29:30

GENERAL INFORMATION:

Formation: **LKC 'A-G'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:13:15

Time Test Ended: 19:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3234.00 ft (KB) To 3318.00 ft (KB) (TVD)

Reference Elevations: 1948.00 ft (KB)

Total Depth: 3318.00 ft (KB) (TVD)

1937.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 9120 Outside

Press@RunDepth: 40.07 psig @ 3235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.22 End Date: 2016.11.22

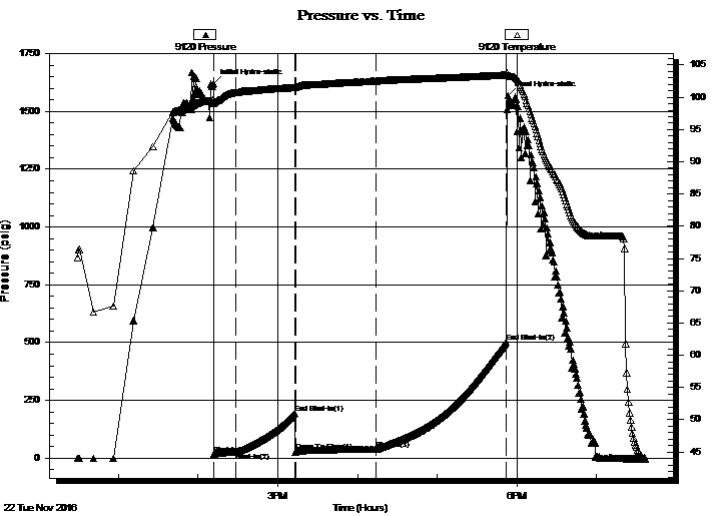
Last Calib.: 2016.11.22

Start Time: 12:29:30 End Time: 19:36:30

Time On Btm: 2016.11.22 @ 14:11:30

Time Off Btm: 2016.11.22 @ 17:53:15

TEST COMMENT: 15-IF-Very Weak Surface Blow ; Built to 1 inch
45-ISI-No Blow Back
60-FF-Fair Blow ; Built to 6 inches
90-FSI-No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1620.95	99.58	Initial Hydro-static
1	18.46	99.06	Shut-In(1)
17	27.57	100.72	Shut-In(2)
62	194.20	101.51	End Shut-In(1)
62	27.73	101.51	Open To Flow (1)
123	40.07	102.53	Shut-In(3)
221	501.12	103.45	End Shut-In(2)
222	1569.73	103.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	OCM 15% O 85% M	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shelby Resources LLC

18-18s-14w

621 17th STE 1155
Denver Co, 80293+1101

Schneider Unit #1-18

Job Ticket: 61861

DST#: 1

ATTN: Jeremy Schwartz/ Chr

Test Start: 2016.11.22 @ 12:29:30

GENERAL INFORMATION:

Formation: **LKC 'A-G'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:13:15

Time Test Ended: 19:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3234.00 ft (KB) To 3318.00 ft (KB) (TVD)

Reference Elevations: 1948.00 ft (KB)

Total Depth: 3318.00 ft (KB) (TVD)

1937.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8353

Inside

Press@RunDepth: 450.73 psig @ 3235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.22

End Date:

2016.11.22

Last Calib.:

2016.11.22

Start Time: 12:29:15

End Time:

19:36:30

Time On Btm:

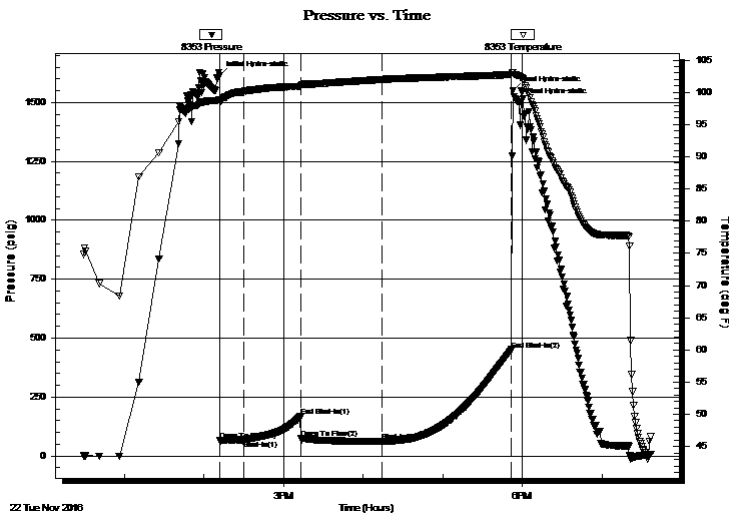
2016.11.22 @ 14:11:45

Time Off Btm:

2016.11.22 @ 17:53:00

TEST COMMENT: 15-IF-Very Weak Surface Blow ; Built to 1 inch
45-ISI-No Blow Back
60-FF-Fair Blow ; Built to 6 inches
90-FSI-No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.38	98.91	Initial Hydro-static
1	65.19	98.62	Open To Flow (1)
19	68.00	100.09	Shut-In(1)
61	167.36	100.92	End Shut-In(1)
62	73.95	100.93	Open To Flow (2)
123	61.59	101.99	Shut-In(2)
220	450.73	102.75	End Shut-In(2)
222	1550.49	103.09	Final Hydro-static
226	1498.73	102.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	OCM 15% O 85% M	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

18-18s-14w

621 17th STE 1155
Denver Co, 80293+1101

Schneider Unit #1-18

Job Ticket: 61861

DST#: 1

ATTN: Jeremy Schwartz/ Chr

Test Start: 2016.11.22 @ 12:29:30

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: 59.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	OCM 15% O 85% M	0.300

Total Length: 61.00 ft Total Volume: 0.300 bbl

Num Fluid Samples: 0

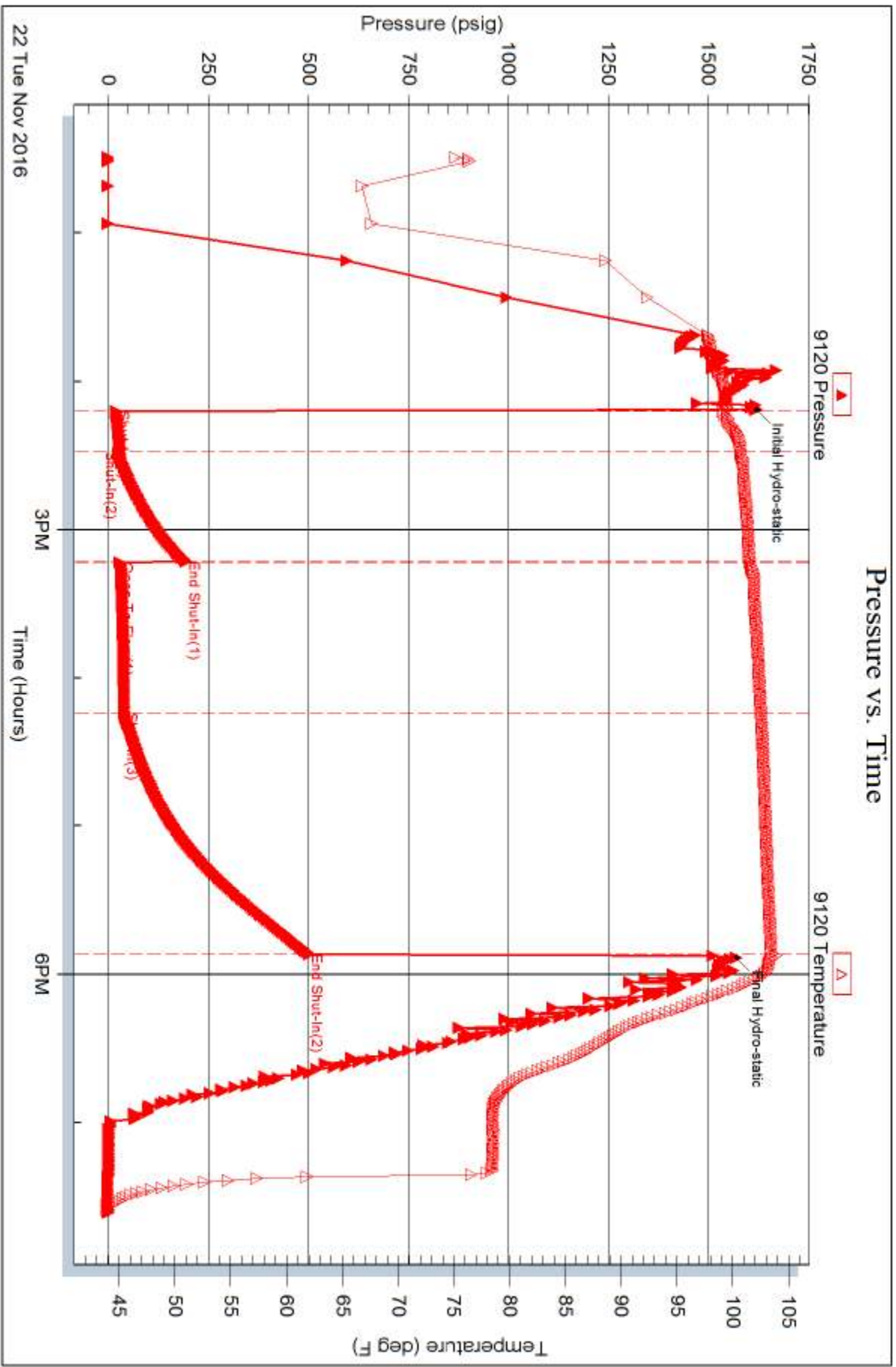
Num Gas Bombs: 0

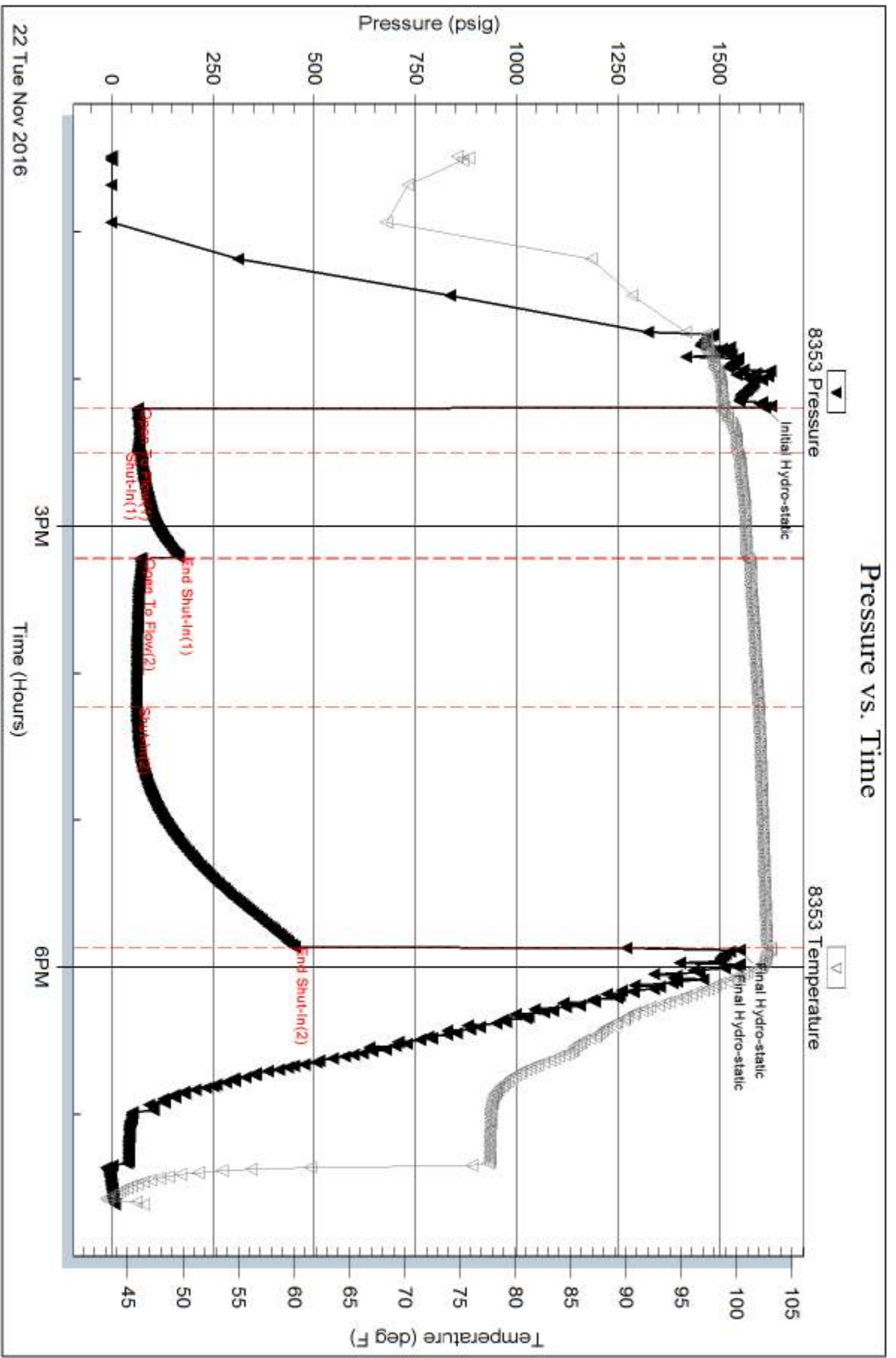
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shelby Resources LLC

18-18s-14w

621 17th STE 1155
Denver Co, 80293+1101

Schneider Unit #1-18

Job Ticket: 61862

DST#: 2

ATTN: Jeremy Schwartz/ Chr

Test Start: 2016.11.22 @ 12:29:00

GENERAL INFORMATION:

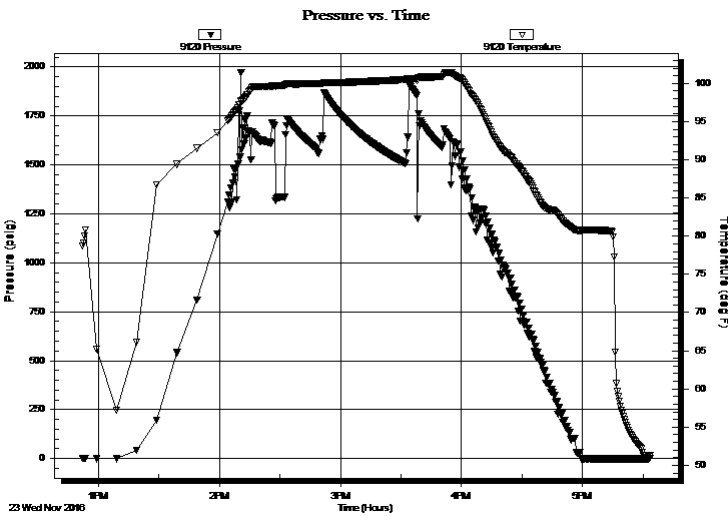
Formation: **LKC 'H-K'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended:
Interval: 3356.00 ft (KB) To 3461.00 ft (KB) (TVD)
 Total Depth: 3318.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 1948.00 ft (KB)
 1937.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 9120

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.11.23 End Date: 2016.11.23 Last Calib.: 2016.11.23
 Start Time: 12:52:15 End Time: 17:33:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15-IF-No Blow ; Flushed tool 5 min in; did not help; no Blow
 45-ISI-No Blow Back
 60-FF-No Blow ; Flushed tool 5 min in; did not help; Pulled tool after approx 18 mins



PRESSURE SUMMARY

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

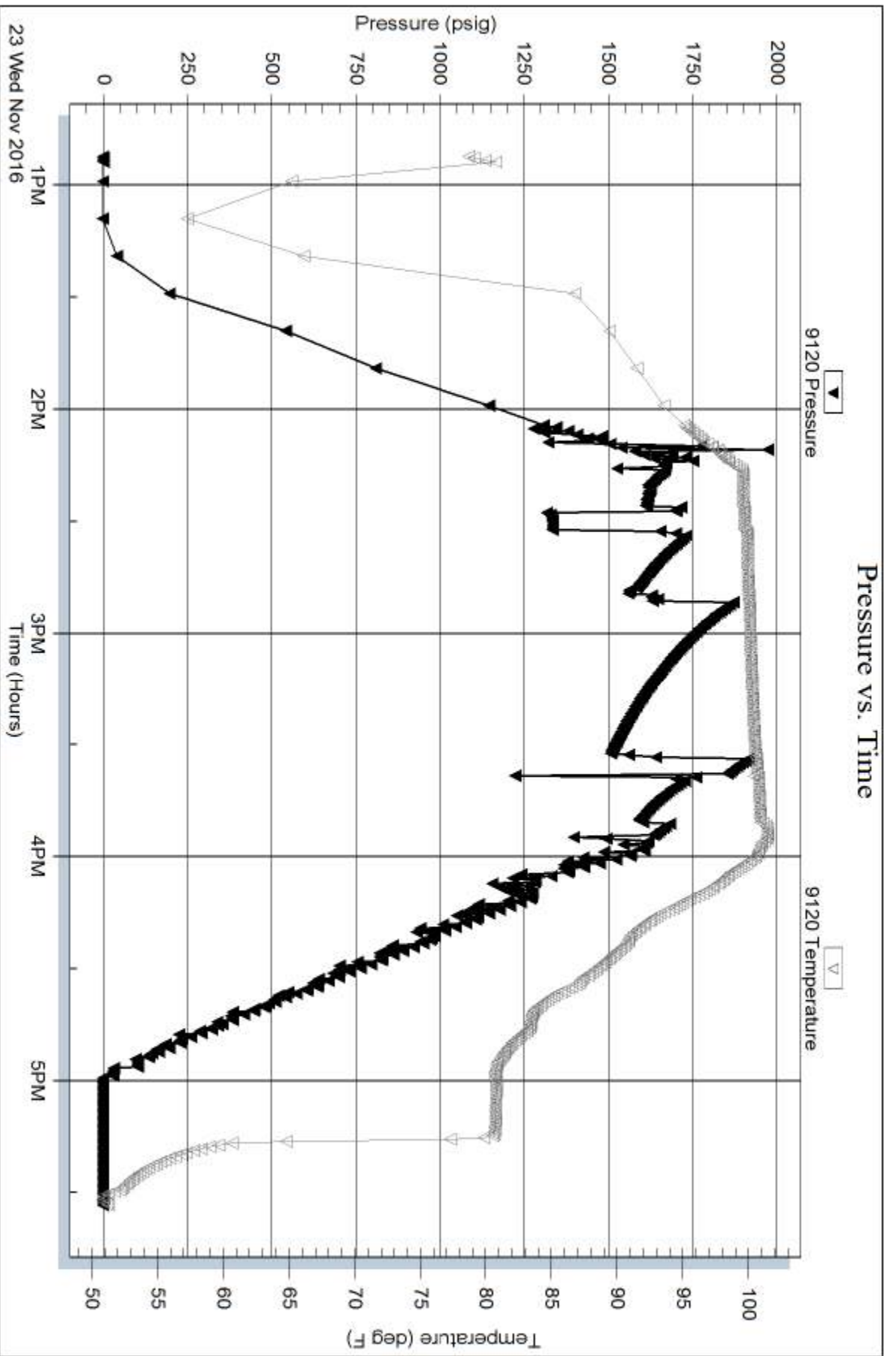
Recovery

Length (ft)	Description	Volume (bbl)
1.00		0.00

Gas Rates

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

* Recovery from multiple tests





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shelby Resources LLC

18-18s-14w

621 17th STE 1155
Denver Co, 80293+1101

Schneider Unit #1-18

Job Ticket: 61863

DST#: 3

ATTN: Jeremy Schwartz/ Chr

Test Start: 2016.11.24 @ 04:02:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:46:15

Time Test Ended: 12:35:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3454.00 ft (KB) To 3510.00 ft (KB) (TVD)

Reference Elevations: 1948.00 ft (KB)

Total Depth: 3318.00 ft (KB) (TVD)

1937.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press@RunDepth: 1037.57 psig @ 3455.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.24

End Date:

2016.11.24

Last Calib.:

2016.11.24

Start Time: 04:02:15

End Time:

12:35:45

Time On Btm:

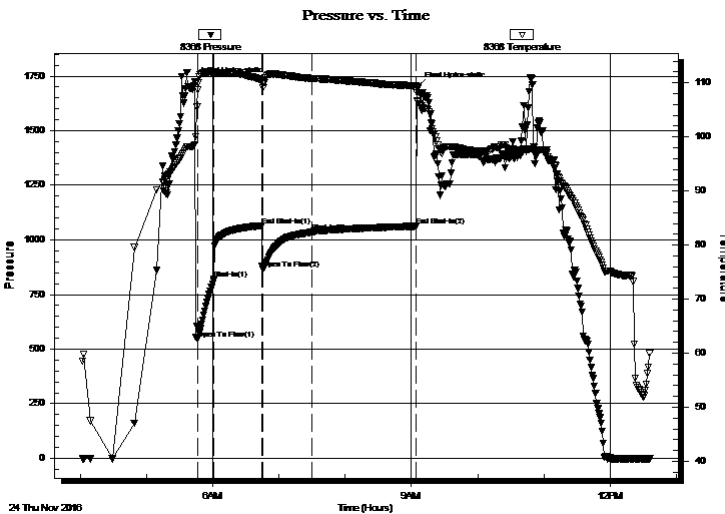
2016.11.24 @ 05:44:00

Time Off Btm:

2016.11.24 @ 09:05:30

TEST COMMENT: 15-IF-BOB in 20 seconds; gas to surface
45-ISI-BOB in 10 minutes
45-FF-BOB instantaneously; gas to surface
90-FSI-Fair Blow ; Built to 4 inches

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1726.47	98.59	Initial Hydro-static
3	546.16	108.67	Open To Flow (1)
18	819.33	111.81	Shut-In(1)
61	1065.14	110.54	End Shut-In(1)
62	865.22	109.77	Open To Flow (2)
106	1037.57	110.76	Shut-In(2)
200	1062.24	109.44	End Shut-In(2)
202	1699.67	106.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2881.00	CGO 10%G 90% O	38.44

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

18-18s-14w

621 17th STE 1155
Denver Co, 80293+1101

Schneider Unit #1-18

Job Ticket: 61863

DST#: 3

ATTN: Jeremy Schwartz/ Chr

Test Start: 2016.11.24 @ 04:02:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2881.00	CGO 10%G 90% O	38.436

Total Length: 2881.00 ft Total Volume: 38.436 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

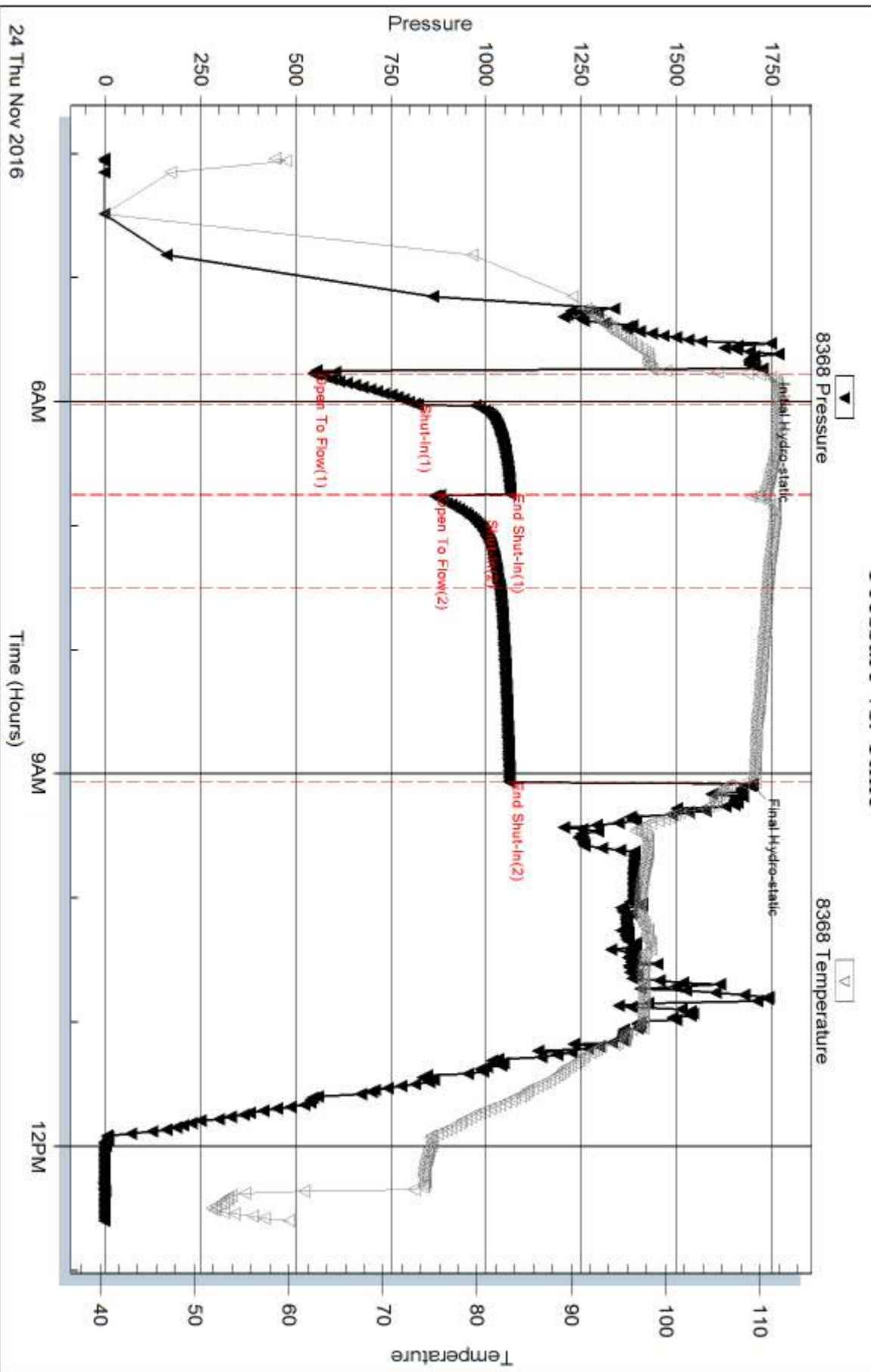
Serial #:

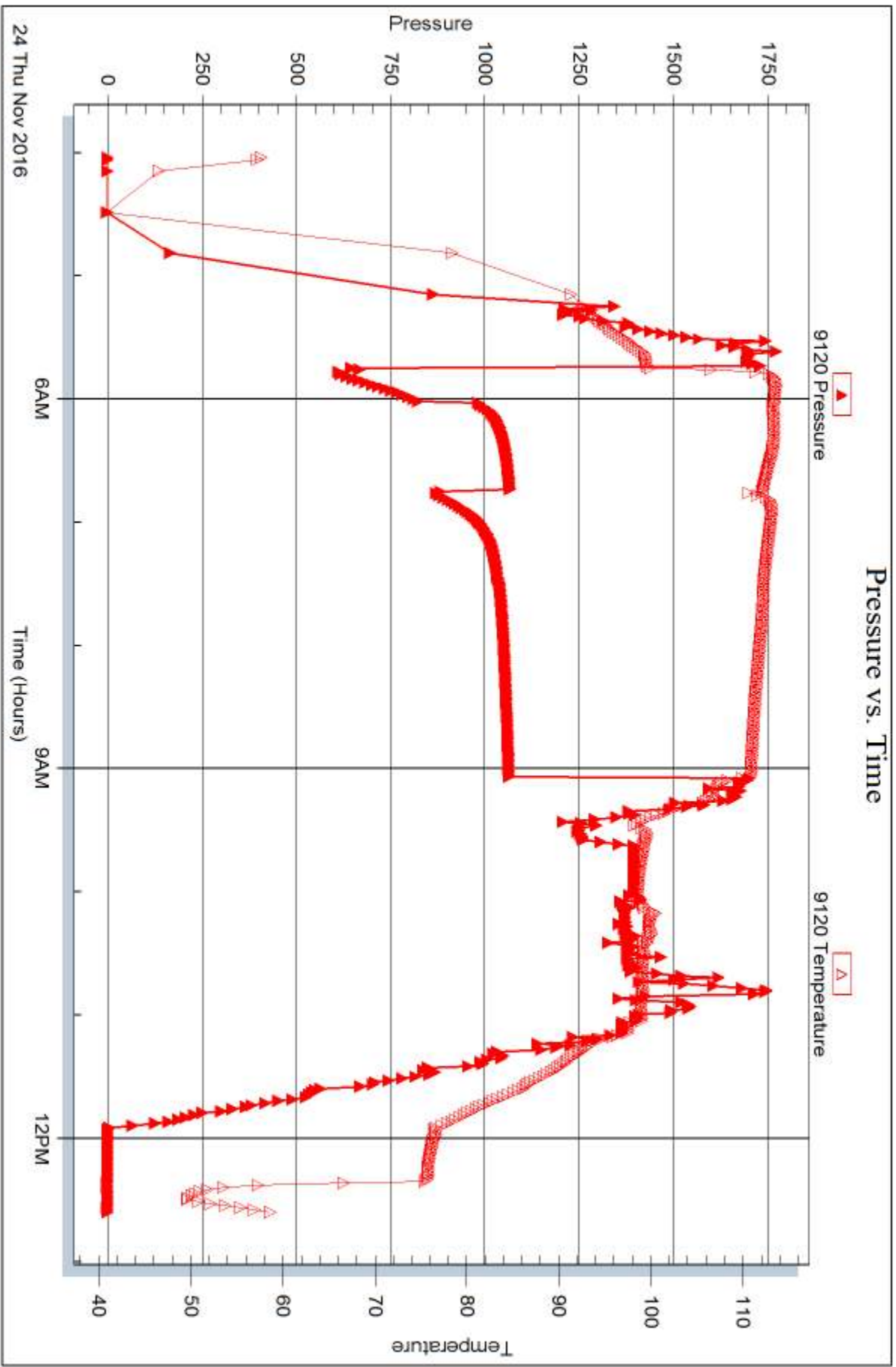
Laboratory Name:

Laboratory Location:

Recovery Comments: reversed oil out to tank truck

Pressure vs. Time







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shelby Resources LLC

18-18s-14w

621 17th STE 1155
Denver Co, 80293+1101

Schneider Unit #1-18

Job Ticket: 61864

DST#: 4

ATTN: Jeremy Schwartz/ Chr

Test Start: 2016.11.24 @ 19:58:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:57:00

Time Test Ended: 03:50:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3512.00 ft (KB) To 3520.00 ft (KB) (TVD)

Reference Elevations: 1948.00 ft (KB)

Total Depth: 3520.00 ft (KB) (TVD)

1937.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8368

Press@RunDepth: 1166.83 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.24

End Date: 2016.11.25

Last Calib.: 2016.11.25

Start Time: 19:58:15

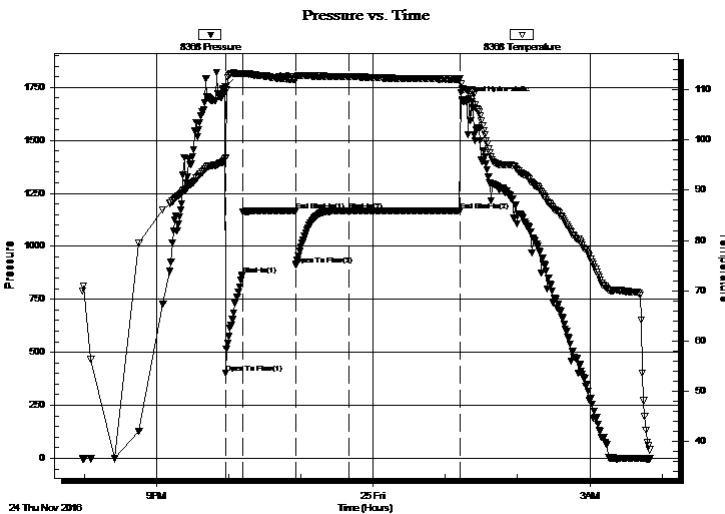
End Time: 03:50:30

Time On Btm: 2016.11.24 @ 21:56:45

Time Off Btm: 2016.11.25 @ 01:14:00

TEST COMMENT: 15-IF-BOB in 10-15 seconds;
45-ISI-Very weak surface blow; few bubbles
45-FF-BOB in 20 seconds;
90-FSI-No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1751.65	96.24	Initial Hydro-static
1	401.97	96.45	Open To Flow (1)
15	865.02	113.13	Shut-In(1)
59	1166.70	112.00	End Shut-In(1)
59	910.94	111.98	Open To Flow (2)
104	1166.83	112.57	Shut-In(2)
196	1167.29	112.08	End Shut-In(2)
198	1685.99	110.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2650.00	Salt Water 100% W	35.20

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shelby Resources LLC

18-18s-14w

621 17th STE 1155
Denver Co, 80293+1101

Schneider Unit #1-18

Job Ticket: 61864

DST#: 4

ATTN: Jeremy Schwartz/ Chr

Test Start: 2016.11.24 @ 19:58:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:57:00

Time Test Ended: 03:50:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3512.00 ft (KB) To 3520.00 ft (KB) (TVD)

Reference Elevations: 1948.00 ft (KB)

Total Depth: 3520.00 ft (KB) (TVD)

1937.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 9120 Inside

Press@RunDepth: psig @ 3512.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.24 End Date: 2016.11.25

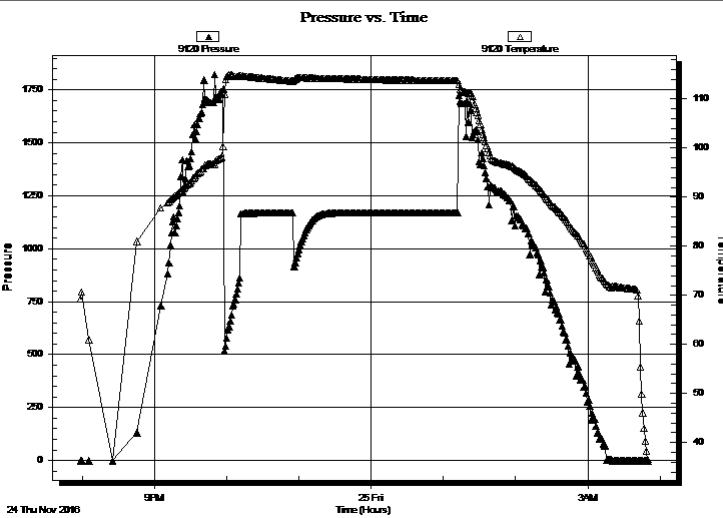
Last Calib.: 2016.11.25

Start Time: 19:58:15 End Time: 03:50:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IF-BOB in 10-15 seconds;
45-ISI-Very weak surface blow; few bubbles
45-FF-BOB in 20 seconds;
90-FSI-No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2650.00	Salt Water 100% W	35.20

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

18-18s-14w

621 17th STE 1155
Denver Co, 80293+1101

Schneider Unit #1-18

Job Ticket: 61864

DST#: 4

ATTN: Jeremy Schwartz/ Chr

Test Start: 2016.11.24 @ 19:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

9350 ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2650.00	Salt Water 100% W	35.196

Total Length: 2650.00 ft Total Volume: 35.196 bbl

Num Fluid Samples: 0

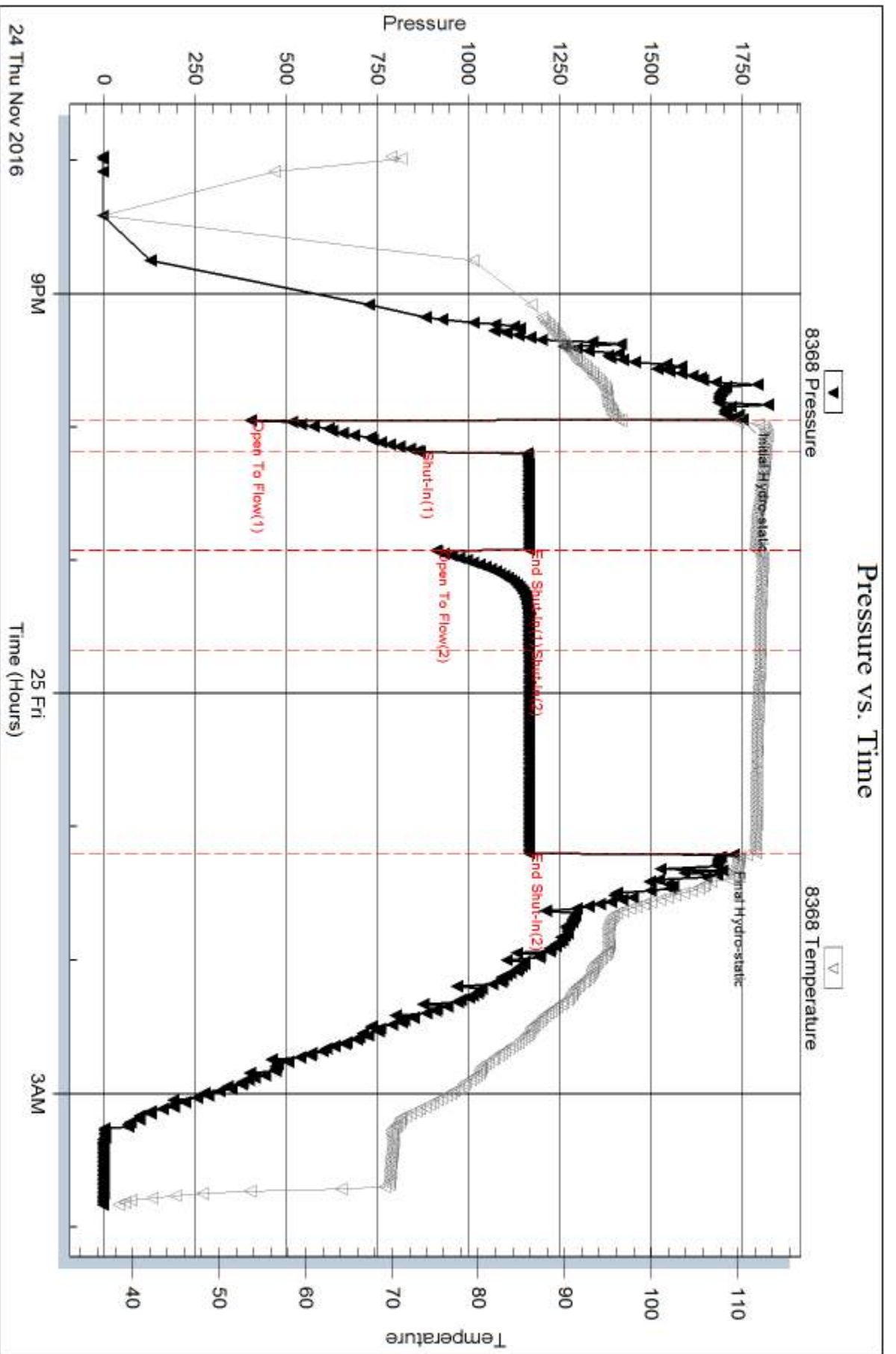
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



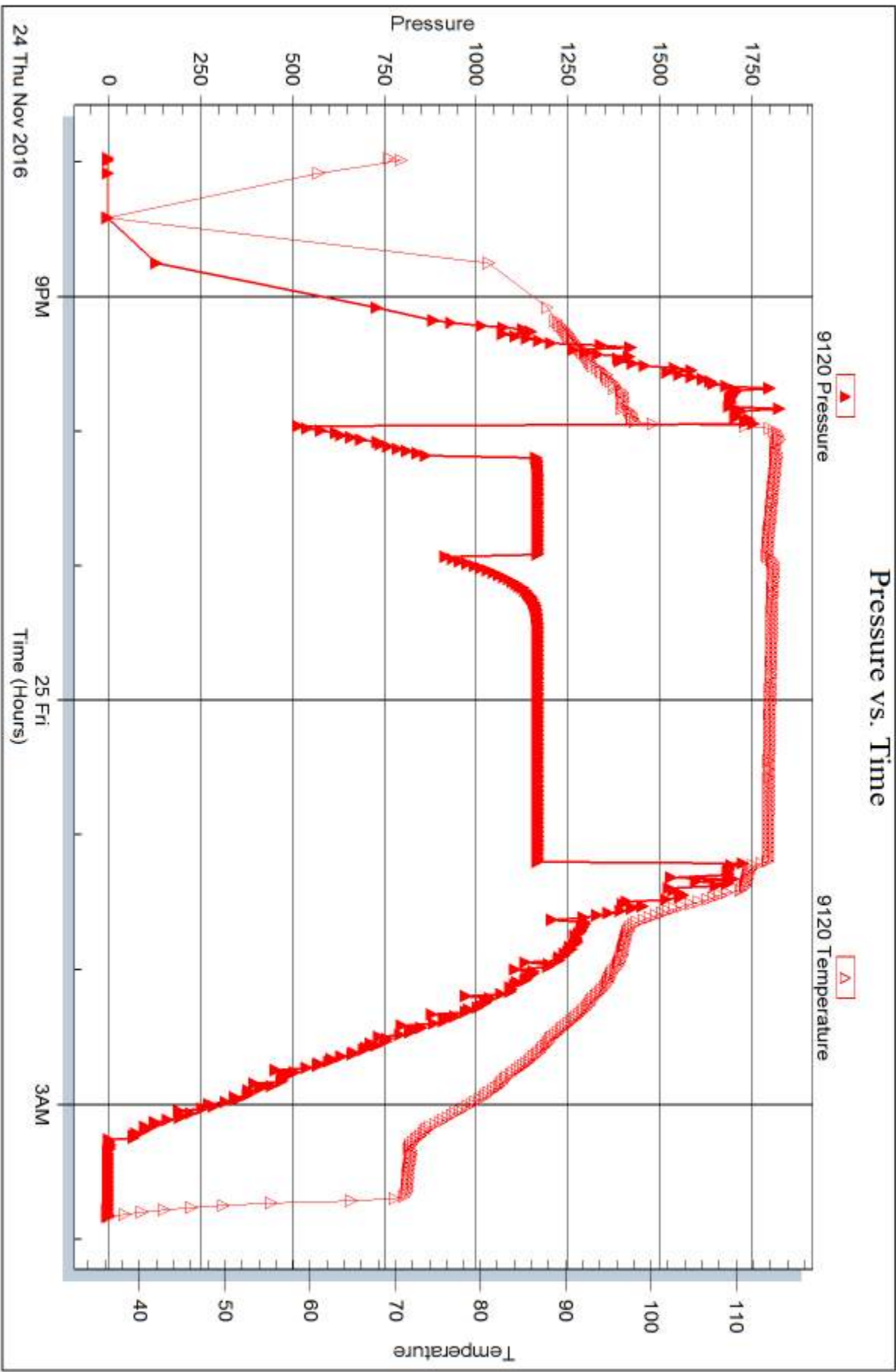
Serial #: 9120

Inside

Shelby Resources LLC

Schneider Unit #1-18

DST Test Number: 4



Customer Shelby Resources, LLC		Lease No.		Date 11/26/2016	
Lease Schneider Unit		Well # 1-18			
Field Order # 13937	Station Pratt, KS	Casing 5 1/2	Depth 3591	County Barton	State KS
Type Job 242/5 1/2 Longstring			Formation TD-3600	Legal Description 18-18-14	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth 3591	Depth	From	To	Pre Pad	Max		5 Min.
Volume 87 1/2	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 3372	Packer Depth	From	To	Flush Freshwater	Gas Volume		Total Load

Customer Representative Chris Gertschick	Station Manager Kevin Gorzley	Treater Darin Franklin
---	----------------------------------	---------------------------

Service Units	92911	84981	19843	84980	19860				
Driver Names	Darin	McGrew	McGrew	Darin	Darin				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:00pm					ON LOCATION / Safety Meeting
					5 1/2 14# Casing set at 3591'
					T-2,4,6,9,11 B-1
					100 SOSC 60/40 P02, 2% Gel
					14.4 PPS, 1.27 veild, 5.23 water
					100 SOSC AB2 Cement, 10% Ssl, 5% Fluidloss
					25 Lb/sk Cellflsk, 5 Lb/sk G. Isonite
					15.3 PPS, 1.36 veild, 5.54 water
6:10pm					Pipe on bottom & break circulation
7:00pm	300		11	3	Mix SOSC Squeenser
	300		24	5	Mix 100 SOSC AB2 Cement
					Shut down
					Wash pump & lines & Release Plug
	200		0	6	Start displacement
	600		52	6	High Pressure
	800		77	3	Slow Rate
7:30pm	1500		86	3	Bump Plug
					Flow - Held
	100		7	3	Plug Rest hole - 30 SOSC 60/40 P02, 2% Gel
	100		5	3	Plug Mouse hole - 20 SOSC 60/40 P02, 2% Gel
					Job complete / Darin & crew
					Thank you!!!



Scale 1:240 Imperial

Well Name: Schneider Unit #1-18
 Surface Location: 2617' FNL, 704' FEL, Sec. 18-18S-14W
 Bottom Location:
 API: 15-009-26157-0000
 License Number:
 Spud Date: 11/18/2016 Time: 8:15 PM
 Region: Barton County
 Drilling Completed: 11/25/2016 Time: 11:15 AM
 Surface Coordinates:
 Bottom Hole Coordinates:
 Ground Elevation: 1937.00ft
 K.B. Elevation: 1948.00ft
 Logged Interval: 2800.00ft To: 3600.00ft
 Total Depth: 3600.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Shelby Resources, LLC
 Address: 621 17th St, Suite 1155
 Denver, CO 80293
 Contact Geologist: Janine Sturdavant
 Contact Phone Nbr: 303-907-2209 / 720-274-4682
 Well Name: Schneider Unit #1-18
 Location: 2617' FNL, 704' FEL, Sec. 18-18S-14W
 API: 15-009-26157-0000
 Pool:
 State: Kansas Field: Schneider
 Country: USA

LOGGED BY



Company: Shelby Resources, LLC
 Address: 621 17th St, Suite 1155
 Denver, CO 80293
 Phone Nbr: 203-671-6034
 Logged By: Geologist Name: Jeremy Schwartz

NOTES

The Shelby Resources, LLC Schneider Unit #1-18 was drilled to a total depth of 3600', bottoming in the Arbuckle. A TookeDaq gas detector was employed in the drilling of said well.

4 DST's were conducted throughout the Lansing-Kansas City and Arbuckle Zones. The DST Reports can be found at the bottom of this log. **Note: DST #2 was a misrun and thus an invalid test due to plugging of the test tool**

Due to positive DST Results in the Arbuckle, sample shows, gas kicks, and log analysis it was determined by all parties involved to further test the well through production casing. The dry samples were saved and will be available for further review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

Respectfully Submitted,
Jeremy Schwartz
Geologist

CONTRACTOR

Contractor: Sterling Drilling Co

Rig #: 5
 Rig Type: mud rotary
 Spud Date: 11/18/2016
 TD Date: 11/25/2016
 Rig Release:

Time: 8:15 PM
 Time: 11:15 AM
 Time:








ELEVATIONS

K.B. Elevation: 1948.00ft Ground Elevation: 1937.00ft
 K.B. to Ground: 11.00ft


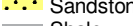

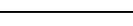
DATE	DEPTH	ACTIVITY
Monday, November 21, 2016	3120'	Geologist Jeremy Schwartz on location @ 1630hrs, ~3145', drlg ahead through Heebner, Toronto, Douglas Shale, Brown Lime, CFS @ 3231', drop survey,
	3231'	strap out, conduct bit trip,
Tuesday, November 22, 2016	3232'	Successful bit trip, resume drlg ahead through Lansing, CFS @ 3283', resume drlg,
	3318'	CFS @ 3318', conduct DST #1 in Lansing "A-G", Successful Test, resume drlg,
Wednesday, November 23, 2016	3410'	CFS @ 3410', resume drlg, CFS @ 3461', conduct DST #2 in Lansing "H-K"
	3461'	MISRUN, Invalid Test due to plugging, trip back in hole, run 1/2 tank mud, CTCH 2hrs
Thursday, November 24, 2016	3510'	resume drlg ahead, CFS @ 3510', conduct DST #3 in the Arbuckle,
		successful test, reversed out 2881' CGO, resue drlg, CFS @ 3520', conduct DST #4
	3520'	in the Arbuckle,
Friday, November 25, 2016	3520'	successful test, drill ahead to TD, TD of 3600' reached @ 1115hrs, CTCH 1.5hrs,
	3600'	drop survey, conduct logging operations, logging operations complete @ 1800hrs
		Geologist Jeremy Schwartz off location @ 1855hrs

FORMATION	OIL - P&A										OIL - P&A						
	PETRO-MARK EXPLORATION										ICER ADDIS						
	SCHNEIDER #18-1										HELEN SCHNEIDER #1						
	SCHNEIDER UNIT #1-18					NW-NW-SE 18-18S-14W					NE-SW-NE 18-18S-14W						
	KB		1948			KB		1932			KB		1936				
LOG TOPS		SAMPLE TOPS			COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.		
DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.
ANHYDRITE TOP	944	1004	945	1003	927	1005	-	1	-	2	939	997	+	7	+	6	
BASE	970	978	972	976	956	976	+	2	+	0	969	967	+	11	+	9	
TOPEKA	2944	-996	2944	-996	2934	-1002	+	6	+	6	2936	-1000	+	4	+	4	
QUEEN HILL SHALE	3073	-1125	3072	-1124	3064	-1132	+	7	+	8	3066	-1130	+	5	+	6	
HEEBNER SHALE	3157	-1209	3157	-1209	3152	-1220	+	11	+	11	3152	-1216	+	7	+	7	
TORONTO	3171	-1223	3172	-1224	3164	-1232	+	9	+	8	3166	-1230	+	7	+	6	
DOUGLAS SHALE	3185	-1237	3184	-1236	3180	-1248	+	11	+	12	3180	-1244	+	7	+	8	
BROWN LIME	3229	-1281	3229	-1281	3224	-1292	+	11	+	11	3224	-1288	+	7	+	7	
LKC	3237	-1289	3237	-1289	3231	-1299	+	10	+	10	3232	-1296	+	7	+	7	
LKC G POROSITY	3309	-1361	3309	-1361	3303	-1371	+	10	+	10	3306	-1370	+	9	+	9	
MUNCIE CREEK	3366	-1418	3369	-1421	3366	-1434	+	16	+	13	3363	-1427	+	9	+	6	
LKC H	3374	-1426	3377	-1429	3374	-1442	+	16	+	13	3372	-1436	+	10	+	7	
BKC	3456	-1508	3456	-1508	3454	-1522	+	14	+	14	3454	-1518	+	10	+	10	
ARBUCKLE	3495	-1547	3495	-1547	3487	-1555	+	8	+	8	3496	-1560	+	13	+	13	
RTD			3600	-1652	3497	-1565				87	3502	-1566					86
LTD	3602	-1654			3494	-1562	-	92			3500	-1564	-	90			




ROCK TYPES









 Congl
  Lmst fw<7
  shale, gry
  shale, red
 Dolprim
  shale, grn
  Carbon Sh

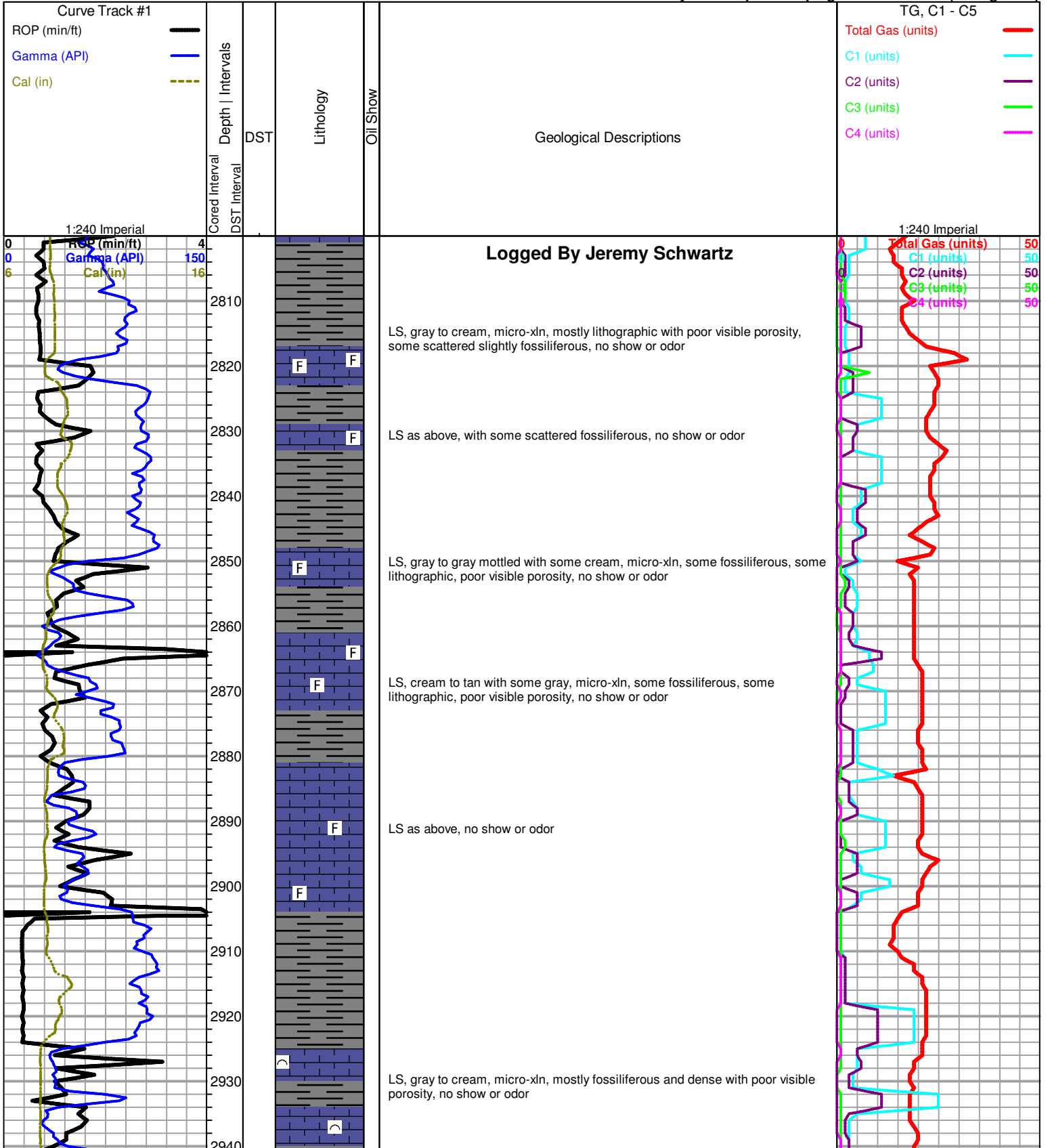
ACCESSORIES

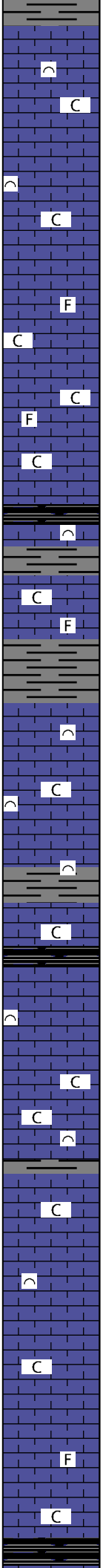
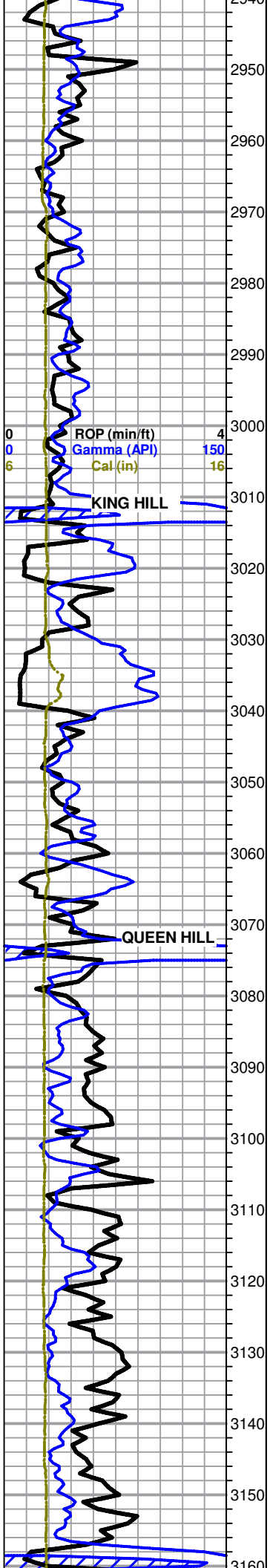
MINERAL
 P Pyrite
FOSSIL
 ^ Bioclastic or Fragmental
 F Fossils < 20%
STRINGER
 ~ Chert
 Limestone
 Sandstone
 Shale
 red shale
TEXTURE
 C Chalky

OTHER SYMBOLS

MISC
 Daily Report
DST
 DST Int
 DST alt

-  Digital Photo
-  Document
-  Folder
-  Link
-  Vertical Log File
-  Horizontal Log File
-  Core Log File
-  Drill Cuttings Rpt





Topeka 2944 (-966)

LS, cream with some scattered gray, micro-xln, mostly fossiliferous and dense with poor visible porosity, with some scattered soft and chalky in part, slightly chalky, no show or odor

LS as above, no show or odor

LS, mostly cream to tan with some scattered gray, micro-xln, some lithographic, some slightly fossiliferous, poor visible porosity, with some soft and chalky in part, fairly chalky, no show or odor

LS, cream, micro-xln, some lithographic, some fossiliferous, poor visible porosity, with some scattered soft and chalky in part, no show or odor

LS, cream, micro-xln, fossiliferous with some with some scattered lithographic, poor visible porosity, with some scattered soft and chalky in part, no show or odor

LS as above, no show or odor

LS, cream, micro-xln, lithographic to fossiliferous, with some soft and chalky in part, poor visible porosity, fairly chalky, no show or odor

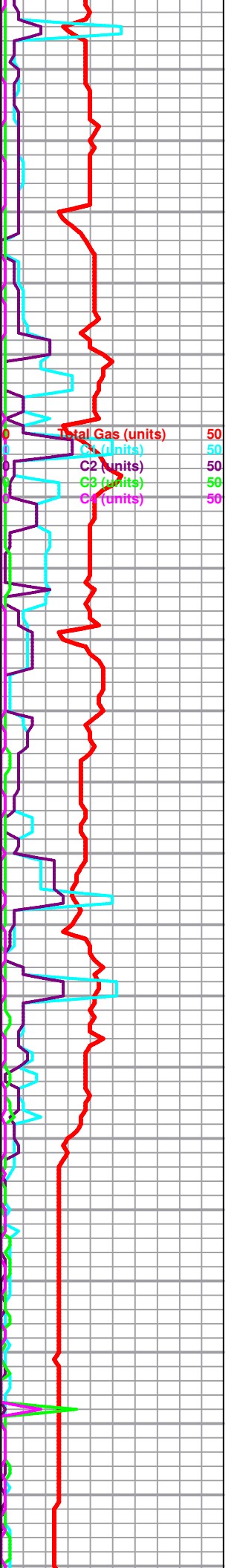
LS as above, slightly less chalky, no show or odor

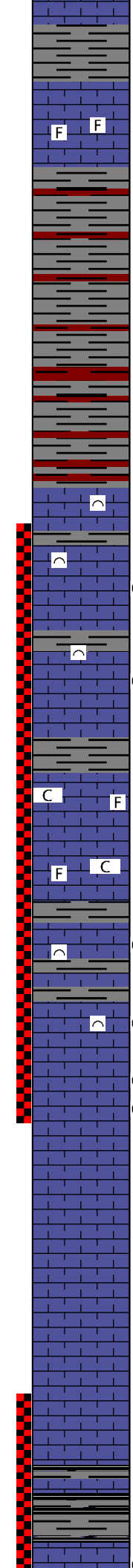
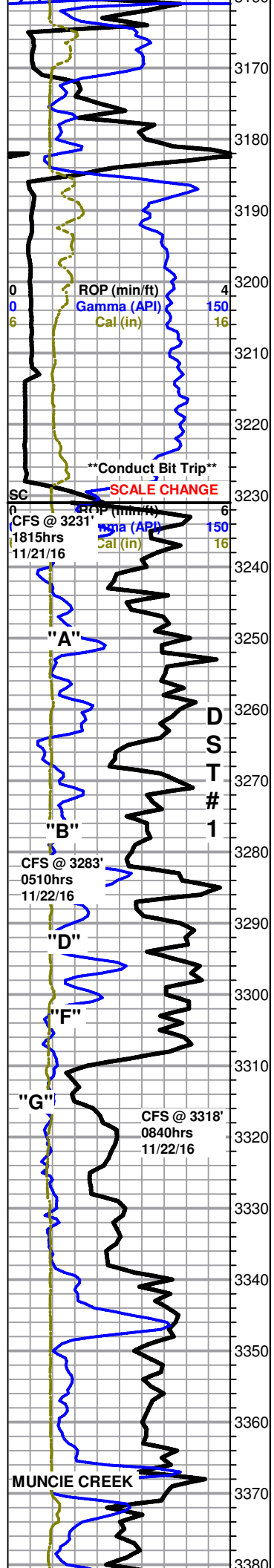
LS, cream, micro-xln, mostly lithographic and dense with poor visible porosity, with some scattered slightly fossiliferous, some soft and chalky in part, no show or odor

LS as above, no show or odor

Heebner Shale 3157 (-1209)

Shale, black carbonaceous





Toronto 3172 (-1224)

LS, cream, micro-xln, mostly lithographic with some scattered fossiliferous, dense with poor visible porosity, no show or odor

Douglas Shale 3184 (-1236)

Shale, gray with some scattered red, mostly soft and waxy

Shale as above, with slight influx red

Brown Lime 3229 (-1281)

LS, brown, micro-xln, fossiliferous and very dense with no visible porosity, no show or odor

Lansing Kansas-City 3237 (-1289)

Shelby Schneider Unit 1-18 dst 1.jpg

LS, cream with some scattered gray, micro-xln, lithographic to fossiliferous and dense with poor visible porosity, found few very scattered chips cream, oolitic, with very scattered, very poor inter-oolite stain in few chips with some very scattered small re-crystallized edge vugs, upon break chips show mostly poor inter-xln porosity, NSFO, very poor fleeting odor in wet cup

~3250' LS, cream to gray, micro-xln, lithographic to fossiliferous, mostly dense with poor visible porosity, found 2 chips with slightly re-crystallized edges and one to two very small edge vugs with poor black stain in porosity only, upon break S-FSFO and mostly poor visible inter-xln porosity, VSSFO in tray, very poor fleeting odor

3283' 30" LS, cream, micro-xln, mostly lithographic and dense with poor visible porosity, some very scattered slightly fossiliferous, with some scattered soft and chalky in part, slightly chalky, no show or odor

3283' 60" Mostly same as above, no show or odor

LS, cream, micro-xln, mostly lithographic and barren with poor visible porosity, with some very scattered fossiliferous, dark gray to brown, with some scattered inter-fossil stain, few small chips mostly saturated with fair pinpoint edge porosity, upon break SSFO and fair visible inter-xln porosity, NSFO in tray, fair odor

LS as above, few chips with very slightly vuggy edges and stain in porosity only, NSFO in tray, poor odor

3318' 30" LS, cream, micro-xln, lithographic with poor visible porosity, with some soft and chalky in part, also with some very scattered small chips oomoldic with poor visible porosity and brown to black stain mostly confined to oomolds but also partly in matrix in few, fairly chalky, NSFO, fair odor

3318' 60" Mostly same as above, with slight influx very small chips oomoldic with scattered to mostly saturated light golden brown stain in and around oomolds and in matrix in some, SSFO upon break in few, NSFO in tray, fairly chalky, good odor

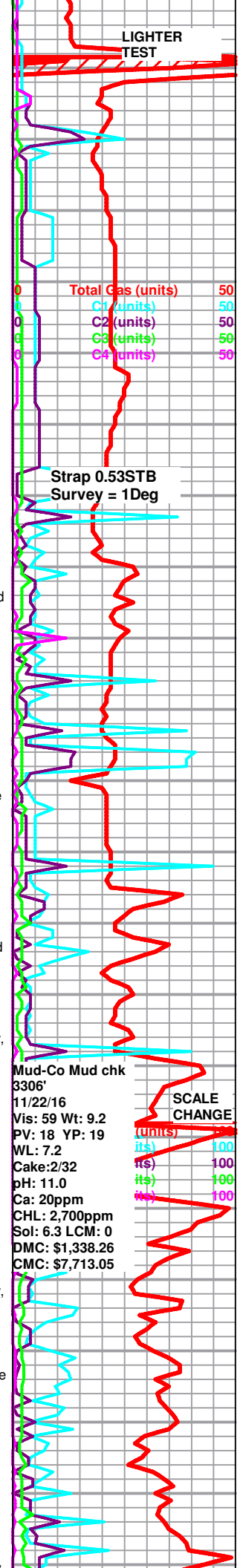
~3330' LS, cream to white, micro-xln, lithographic, abundant soft and chalky in part, poor overall visible porosity, very chalky, no show or odor

LS, cream to white, micro-xln, lithographic and dense with poor visible porosity, with some soft and chalky in part, trace oolitic, recrystallized with some scattered poor pinpoint edge porosity, fairly chalky, no show or odor

LS, cream to light gray with influx brown, micro-xln, mostly lithographic and dense with poor visible porosity, some scattered slightly fossiliferous, with trace oomoldic with poor oomold porosity, less chalky, no show or odor

LS as above, no show or odor

LS, cream, micro-xln, mostly lithographic and dense with poor visible porosity, with some scattered (~20%) with poor to fair pinpoint porosity to slightly vuggy edges, chips appear mostly barren with some scattered to very scattered light golden brown stain around porosity, upon break most chips with stain have SSFO and some show fair inter-xln porosity with scattered stain in matrix, slow

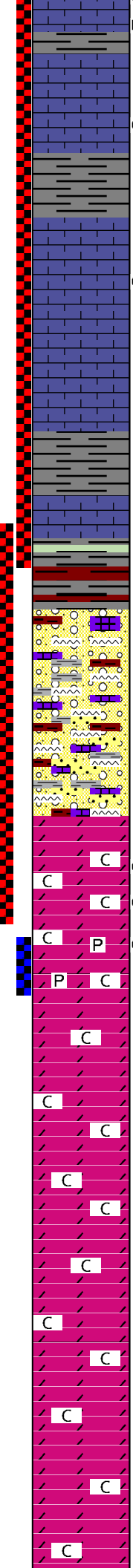
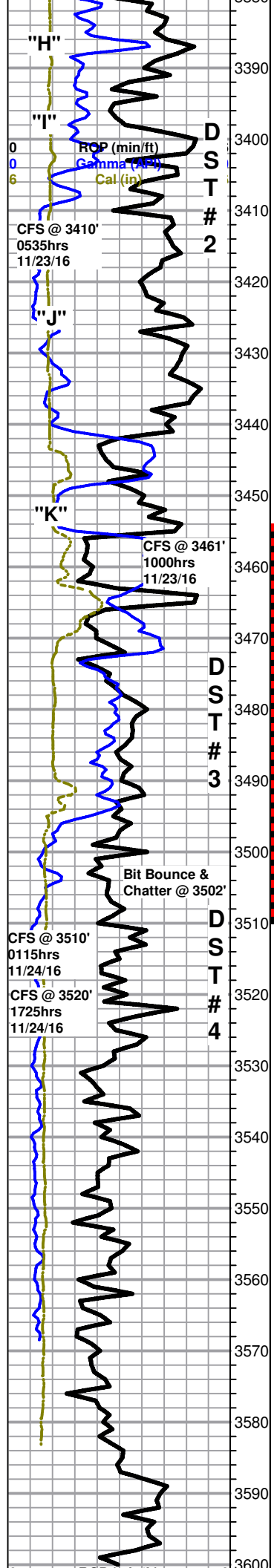


Total Gas (units) 50
 C1 (units) 50
 C2 (units) 50
 C3 (units) 50
 C4 (units) 50

Strap 0.53STB Survey = 1Deg

Mud-Co Mud chk 3306' 11/22/16
 Vis: 59 Wt: 9.2
 PV: 18 YP: 19
 WL: 7.2
 Cake: 2/32
 pH: 11.0
 Ca: 20ppm
 CHL: 2,700ppm
 Sol: 6.3 LCM: 0
 DMC: \$1,338.26
 CMC: \$7,713.05

SCALE CHANGE (units)
 100
 100
 100
 100



3390' SSFO and some show fair inter-xln porosity with scattered stain in matrix, slow streaming cut with bright white fluor., trace oomoldic with large oomolds, recrystallized with scattered light golden brown stain in and around oomolds, NSFO in tray, scattered dull yellow fluor., fair odor

3410' 30" LS, cream, micro-xln, mostly lithographic and dense with poor visible porosity, with some very scattered chips with re-crystallized edges and mostly poor to fair pinpoint to very slightly vuggy edge porosity with very scattered stain around porosity only, upon break SSFO, NSFO in tray, no fluor., poor odor

3410' 60" LS as above, NSFO, no fluor., no odor

3420' LS, cream, micro-xln, mostly lithographic and dense with poor visible porosity, with some very scattered oolitic with some scattered fair inter-oolite porosity and mostly poor stain in and around porosity only, SSFO upon break, SSFO in tray, no fluor., fair odor

3430' LS, cream, micro-xln, lithographic and dense with poor visible porosity, no show, fluor., or odor

3461' 30" LS, cream with some very scattered pale yellow, micro-xln, lithographic and dense with poor visible porosity, no show, fluor., or odor

BKC 3456 (-1508)

3461' 60" Mostly same as above, with slight influx gray shale with trace green, no show or odor

Shale, gray and red, also with some scattered cream to gray LS with mixed varicolored tan to opaque and red to orange cherts, heavy red wash, no show or odor

Conglomerate as above, also with abundant vf-f sub-rounded to rounded quartz SS grains in bottom of tray, heavy red wash, no show or odor

Conglomerate as above, red wash, no show or odor

Arbuckle 3495 (-1547)

3510' sample, Conglomerate as above, with trace dolomite, white, micro-med-xln, sub-sucrosic to sub-rhombic and dense with poor visible porosity, most appear barren, few chips with very scattered stain, upon break chips have fair show free oil and some show some scattered fair inter-xln porosity and stain, red wash, NSFO in tray, fair odor

3510' 30" Dolomite, white, micro-xln with some very scattered med-xln, mostly sub-sucrosic to sub-rhombic and dense with poor visible porosity, some fairly friable, most appear barren, some with very scattered brown stain, upon break some chips have slight to fair show free oil and show some fair inter-xln porosity and stain, few chips with good show free oil, SSFO in tray, chalky, good odor

3510' 60" Dolomite, mostly same as above, with slight influx med-xln, mostly sub-rhombic with some scattered fair rhombic development, with very scattered poor stain, upon break chips have good show free oil and show some scattered fair inter-xln porosity, slightly chalky, good odor

Shelby Schneider Unit 1-18 dst3.jpg

3520' 30" Dolomite, white, micro-xln with some very scattered med-xln, mostly sub-sucrosic and dense with poor visible porosity, with some very scattered fair visible porosity in few chips, mostly barren, upon break SSFO in some chips, NSFO in tray, fairly chalky, trace pyrite and dolomite with pyrite inclusions, fair odor

3520' 60" Dolomite, white, micro-med xln, mostly sub-rhombic with poor visible porosity, some scattered fair visible porosity, mostly barren, upon break VSSFO in few chips, NSFO in tray, fairly chalky, trace pyrite, fair odor

Shelby Schneider Unit 1-18 dst3.jpg

~3530" Dolomite, white, mostly micro-xln with some very scattered med-xln, sub-sucrosic to sub-rhombic and mostly dense with poor visible porosity, some very scattered fairly friable sub-rhombic with some very scattered inter-xln porosity, barren, fairly chalky, no show or odor

~3540" Dolomite as above, no show or odor

~3550" Dolomite as above, with slight influx med-xln sub-rhombic and fairly friable with some very scattered poor to fair inter-xln porosity, barren, fairly chalky, no odor

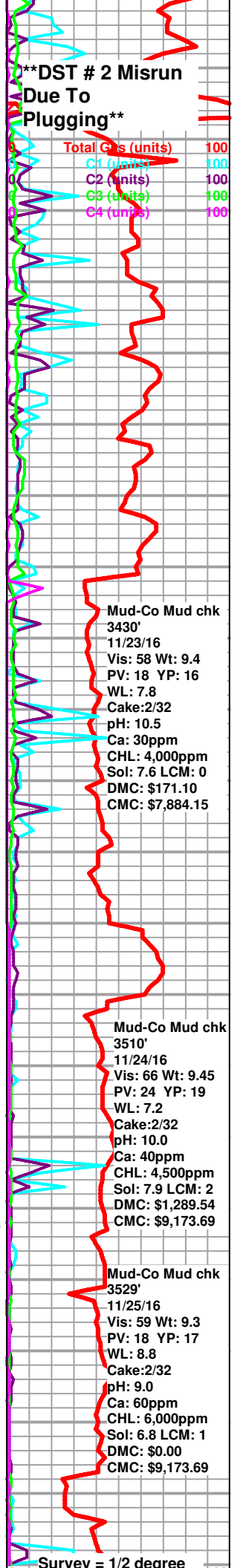
~3560" Dolomite, micro-med xln, sub-sucrosic to sub-rhombic and mostly dense with poor visible porosity, with some scattered med-xln sub-rhombic with some scattered poor to fair inter-xln porosity, barren, fairly chalky, no odor

~3570" Dolomite as above, no show or odor

Dolomite, cream to white, micro-xln, mostly sub-sucrosic and dense with poor visible porosity, slightly chalky, no show or odor

Dolomite as above, no show or odor

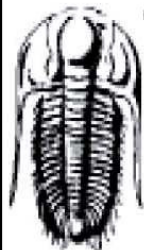
Dolomite, cream with some very scattered white, micro-xln, mostly sub-sucrosic to sucrosic and dense with poor visible porosity, some scattered fairly friable, with some very scattered sub-rhombic, slightly chalky, no show or odor



0	ROP (min/ft)	6	
0	Gamma (API)	150	
6	Cal (in)	16	
			3610

Rotary TD 3600' @ 1115hrs 11/25/16
 Eli Wireline Services Logging TD @ 3602'
 Complete Logging Operations @ 1800hrs 11/25/16
 Geologist Jeremy Schwartz off location @ 1855hrs 11/25/16

0	total gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shelby Resources LLC

18-18s-14w

621 17th STE 1155
Denver Co, 80293+1101

Schneider Unit #1-18

Job Ticket: 61861

DST#: 1

ATTN: Jeremy Schwartz/ Chr

Test Start: 2016.11.22 @ 12:29:30

GENERAL INFORMATION:

Formation: **LKC 'A-G'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:13:15

Time Test Ended: 19:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J. Staab

Unit No: 84

Interval: **3234.00 ft (KB) To 3318.00 ft (KB) (TVD)**

Reference Elevations: 1948.00 ft (KB)

Total Depth: 3318.00 ft (KB) (TVD)

1937.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 9120

Outside

Press@RunDepth: 40.07 psig @ 3235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.22

End Date: 2016.11.22

Last Calib.: 2016.11.22

Start Time: 12:29:30

End Time: 19:36:30

Time On Btm: 2016.11.22 @ 14:11:30

Time Off Btm: 2016.11.22 @ 17:53:15

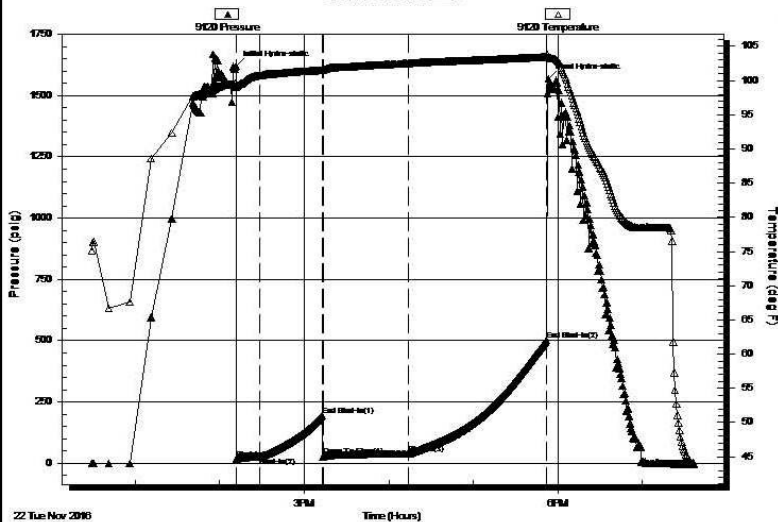
TEST COMMENT: 15-IF-Very Weak Surface Blow ; Built to 1 inch

45-IS-No Blow Back

60-FF-Fair Blow ; Built to 6 inches

90-FSI-No Blow Back

Pressure vs. Time



PRESSURE SUMMARY

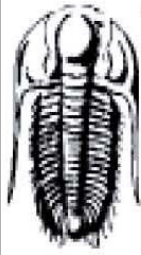
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1620.95	99.58	Initial Hydro-static
1	18.46	99.06	Shut-In(1)
17	27.57	100.72	Shut-In(2)
62	194.20	101.51	End Shut-In(1)
62	27.73	101.51	Open To Flow (1)
123	40.07	102.53	Shut-In(3)
221	501.12	103.45	End Shut-In(2)
222	1569.73	103.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	OCM 15% O 85% M	0.30

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shelby Resources LLC

18-18s-14w

621 17th STE 1155
Denver Co, 80293+1101

Schneider Unit #1-18

Job Ticket: 61863

DST#: 3

ATTN: Jeremy Schwartz/ Chr

Test Start: 2016.11.24 @ 04:02:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:46:15

Time Test Ended: 12:35:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: **3454.00 ft (KB) To 3510.00 ft (KB) (TVD)**

Reference Elevations: 1948.00 ft (KB)

Total Depth: 3318.00 ft (KB) (TVD)

1937.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press@RunDepth: 1037.57 psig @ 3455.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.24

End Date: 2016.11.24

Last Calib.: 2016.11.24

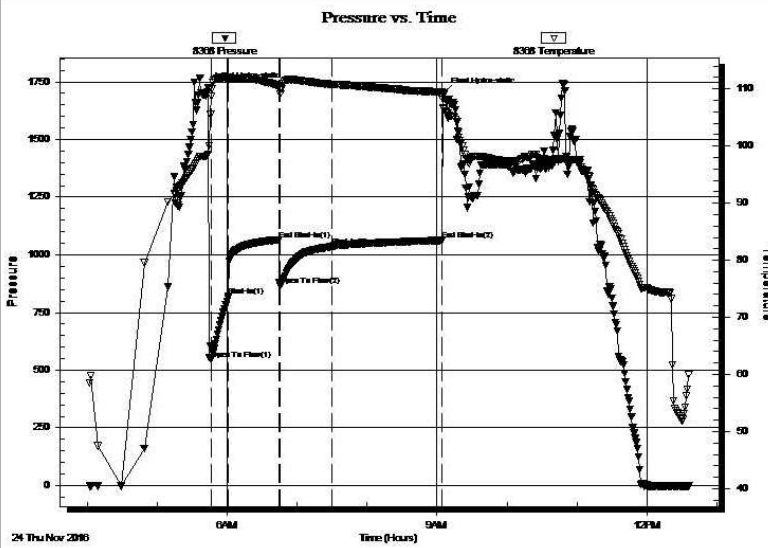
Start Time: 04:02:15

End Time: 12:35:45

Time On Btm: 2016.11.24 @ 05:44:00

Time Off Btm: 2016.11.24 @ 09:05:30

TEST COMMENT: 15-IF-BOB in 20 seconds; gas to surface
45-ISI-BOB in 10 minutes
45-FF-BOB instantaneously; gas to surface
90-FSI-Fair Blow ; Built to 4 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1726.47	98.59	Initial Hydro-static
3	546.16	108.67	Open To Flow (1)
18	819.33	111.81	Shut-In(1)
61	1065.14	110.54	End Shut-In(1)
62	865.22	109.77	Open To Flow (2)
106	1037.57	110.76	Shut-In(2)
200	1062.24	109.44	End Shut-In(2)
202	1699.67	106.73	Final Hydro-static

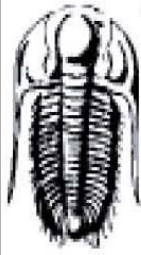
Recovery

Length (ft)	Description	Volume (bbl)
2881.00	CGO 10%G 90% O	38.44

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shelby Resources LLC

18-18s-14w

621 17th STE 1155
Denver Co, 80293+1101

Schneider Unit #1-18

Job Ticket: 61863

DST#: 3

ATTN: Jeremy Schwartz/ Chr

Test Start: 2016.11.24 @ 04:02:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:46:15

Time Test Ended: 12:35:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: **3454.00 ft (KB) To 3510.00 ft (KB) (TVD)**

Reference Elevations: 1948.00 ft (KB)

Total Depth: 3318.00 ft (KB) (TVD)

1937.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press@RunDepth: 1037.57 psig @ 3455.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.24

End Date: 2016.11.24

Last Calib.: 2016.11.24

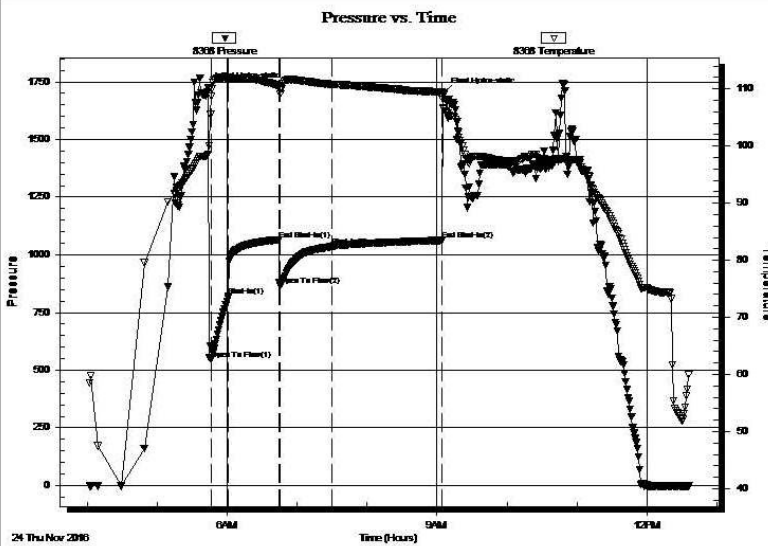
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QUALITY OILWELL CEMENTING, INC.

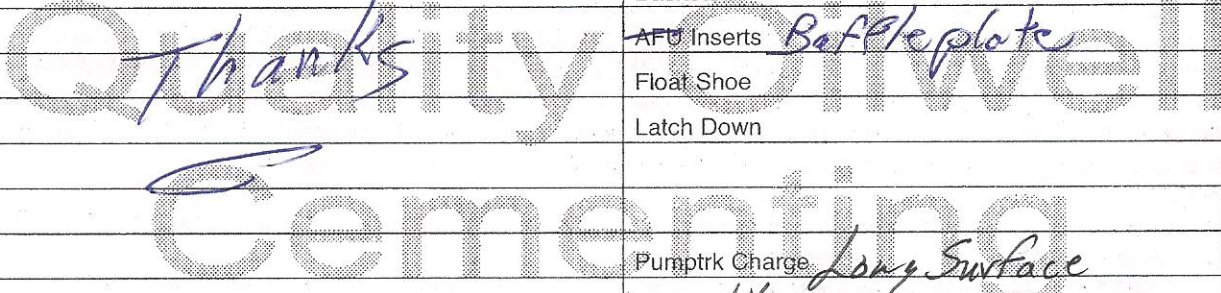
Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 3103

Date	11-19-16	Sec.	18	Twp.	18	Range	14	County	Barber	State	Ks	On Location		Finish	6:00 PM				
Lease	Schneider			Well No.			1-18			Location			Boyd 2 nd to 90 th 3 rd W to 70 th N ²						
Contractor	Sterling Delp			Owner			1/2 S			To Quality Oilwell Cementing, Inc.			You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Type Job	Long Surface			Charge To			Shelby Resources												
Hole Size	12 1/4			T.D.			970												
Csg.	8 5/8			Depth			968												
Tbg. Size				Depth						City			State						
Tool				Depth			73			The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.	23"			Shoe Joint			59 3/4			Cement Amount Ordered			350 60% 30% CC 2% GD						
Meas Line				Displace			59 3/4												
EQUIPMENT																			
Pumptrk	18	No.		Cementer			Doug			Common			210						
				Helper			Dave			Poz. Mix			140						
Bulktrk	4	No.		Driver			Tim			Gel.			7						
Bulktrk	pu	No.		Driver			Dave			Calcium			14						
JOB SERVICES & REMARKS																			
Remarks:												Hulls							
Rat Hole												Salt							
Mouse Hole												Flowseal							
Centralizers												Kol-Seal							
Baskets												Mud CLR 48							
D/V or Port Collar												CFL-117 or CD110 CAF 38							
Ran 8 5/8 to TD circ for 15 min mixed 350 sl displaced w/ plug cement in cellar												Sand							
												Handling				371			
												Mileage							
												FLOAT EQUIPMENT							
												Guide Shoe				1			
												Centralizer				1 8 5/8 Rubber plug			
												Baskets							
												AFU Inserts				Baffle plate			
												Float Shoe							
												Latch Down							
												Pumptrk Charge				Long Surface			
												Mileage				14			
												Tax							
												Discount							
												Total Charge							
X Signature	Larry S. Salge																		



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 3043

Date	12-8-16	Sec.	Twp.	Range	County	State	On Location	Finish
					Barton	Ks		4:45 PM
Lease	Schneider unit				Location	281 & 4 Jct, 35 on Boyd		
Contractor	DS+W well service				Well No.	1-18		
Type Job	Retainer squeeze				Owner	Pd, 3w, Vas, WLS		
Hole Size	T.D.				Charge To	Shelby Resources		
Csg.	5 1/2"				Depth	3512'		
Tbg. Size	2"				Depth	3512'		
Tool	Depth				The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.	Shoe Joint				Cement Amount Ordered	50 Common		
Meas Line	Displace 13 1/4 BLS				Common 50			
EQUIPMENT					Common 50			
Pumptrk	18	No.	Cementer	Dave				
			Helper	Dave				
Bulktrk	3	No.	Driver	Stan				
			Driver	Stan				
Bulktrk	p.u.	No.	Driver	Rick				
			Driver	Rick				
JOB SERVICES & REMARKS					Hulls			
Remarks:					Salt			
Rat Hole	mix 50% common				Flowseal			
Mouse Hole	string into retainer				Kol-Seal			
Centralizers	+ displaced w/H2O				Mud CLR 48			
Baskets	shut down string out				CFL-117 or CD110 CAF 38			
D/V or Port Collar	+ wash clean				Sand			
	Max pressure 2250 #				Handling 50			
					Mileage			
QUALITY OILWELL CEMENTING					FLOAT EQUIPMENT			
					Guide Shoe			
					Centralizer			
					Baskets			
					AFU Inserts			
					Float Shoe			
					Latch Down			
					Pumptrk Charge 50000			
					Mileage 14			
					Tax			
					Discount			
					Total Charge			
X	Signature				