



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1219179
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1219179

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Littler LLC 'B' 1-32
Doc ID	1219179

All Electric Logs Run

DIL
DUCP
MEL
BHCS



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Jeff Christian

Little LLC B 1-32

32 16s 19w Rush,KS

Start Date: 2014.07.08 @ 20:20:00

End Date: 2014.07.09 @ 00:15:00

Job Ticket #: 59265 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.15 @ 07:55:21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

32 16s 19w Rush,KS
Littler LLC B 1-32
Job Ticket: 59265 **DST#: 1**
Test Start: 2014.07.08 @ 20:20:00

Tool Information

Drill Pipe:	Length: 3766.00 ft	Diameter: 3.80 inches	Volume: 52.83 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 52.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3793.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3773.00	
Shut In Tool	5.00			3778.00	
Hydraulic tool	5.00			3783.00	
Packer	5.00			3788.00	21.00 Bottom Of Top Packer
Packer	5.00			3793.00	
Stubb	1.00			3794.00	
Recorder	0.00	8789	Inside	3794.00	
Recorder	0.00	8289	Outside	3794.00	
Blank Spacing	19.00			3813.00	
Bullnose	3.00			3816.00	23.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

32 16s 19w Rush, KS
Littler LLC B 1-32
Job Ticket: 59265 **DST#: 1**
Test Start: 2014.07.08 @ 20:20:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.92 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 12000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	Mud 100%	1.980

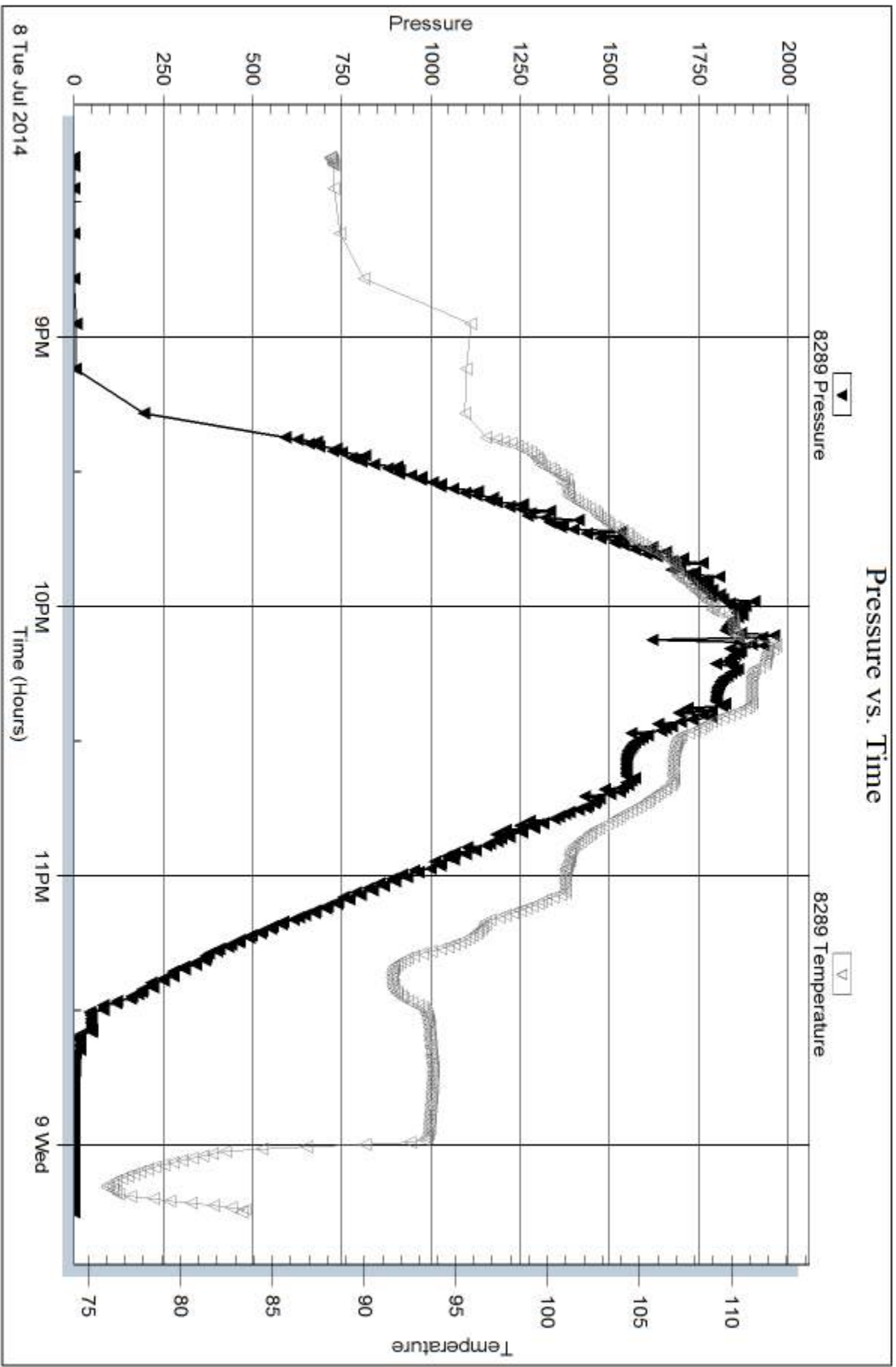
Total Length: 160.00 ft Total Volume: 1.980 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8289

Outside Murfin Drilling Co Inc

Litter LLC B 1-32

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 59265

Printed: 2014.07.15 @ 07:55:22

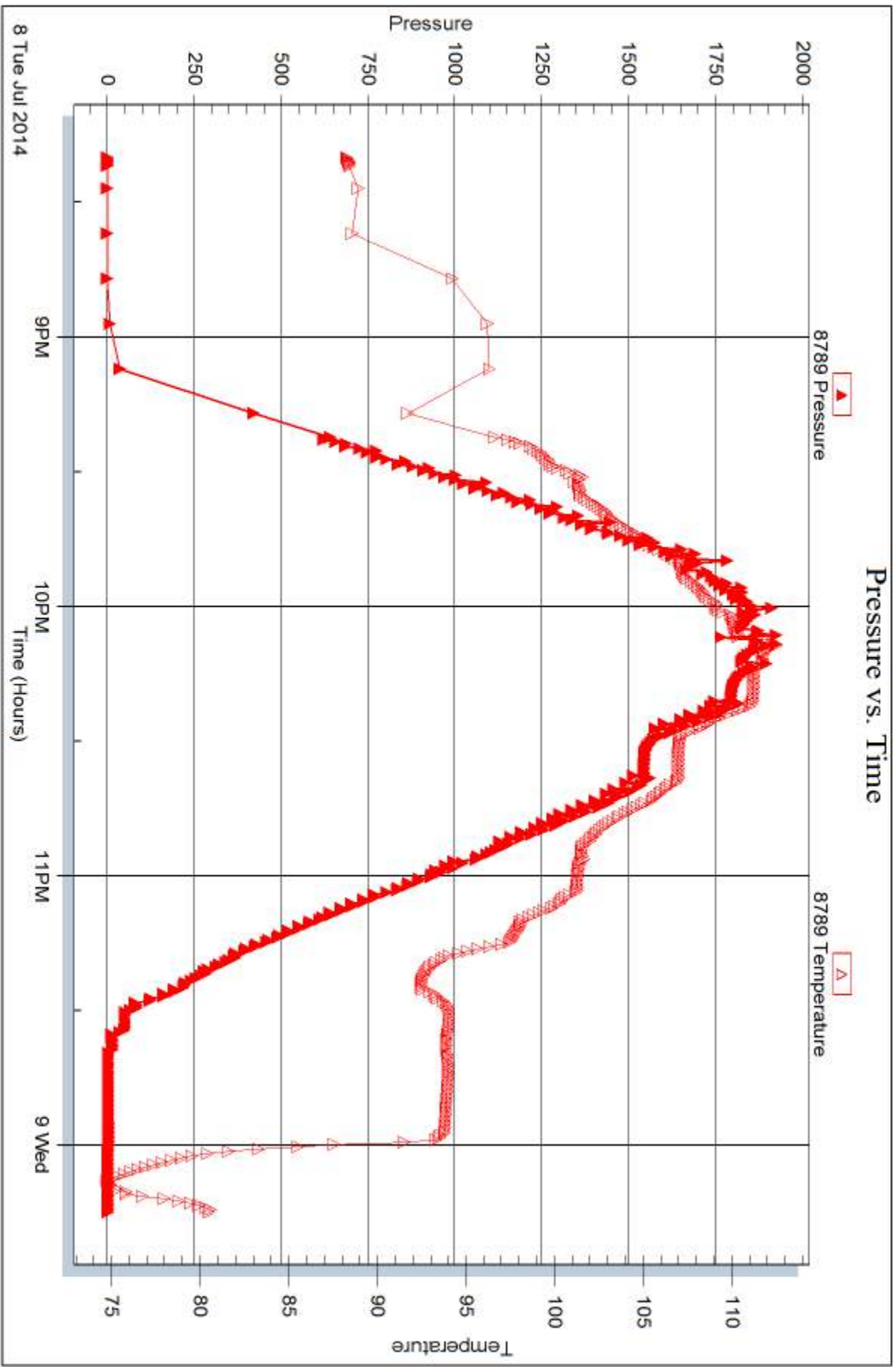
Serial #: 8789

Inside

Murfin Drilling Co Inc

Litter LLC B 1-32

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 59265

Printed: 2014.07.15 @ 07:55:22



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Jeff Christian

Little LLC B 1-32

32 16s 19w Rush,KS

Start Date: 2014.07.09 @ 00:32:00

End Date: 2014.07.09 @ 07:08:00

Job Ticket #: 59266 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.15 @ 07:54:59



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N Water Ste 300
 Wichita KS 67202-1216
 ATTN: Jeff Christian

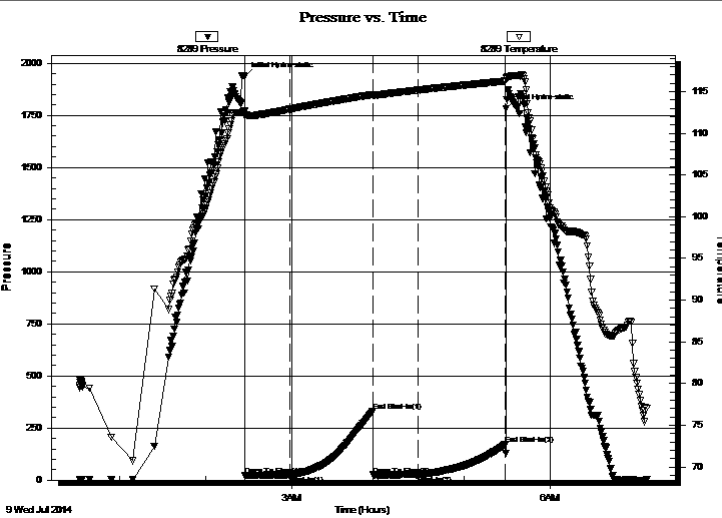
32 16s 19w Rush, KS
Littler LLC B 1-32
 Job Ticket: 59266 **DST#: 2**
 Test Start: 2014.07.09 @ 00:32:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:27:00
 Time Test Ended: 07:08:00
 Interval: **3769.00 ft (KB) To 3816.00 ft (KB) (TVD)**
 Total Depth: 3816.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 2064.00 ft (KB)
 2059.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8289 Outside
 Press@RunDepth: 25.41 psig @ 3781.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.09 End Date: 2014.07.09 Last Calib.: 2014.07.09
 Start Time: 00:32:02 End Time: 07:07:45 Time On Btm: 2014.07.09 @ 02:26:45
 Time Off Btm: 2014.07.09 @ 05:29:15

TEST COMMENT: 30-IFP- Surface Blow { Weak }
 60-ISIP- No Blow
 30-FFP- No Blow
 60-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.05	112.67	Initial Hydro-static
1	23.19	112.12	Open To Flow (1)
32	24.18	112.88	Shut-In(1)
90	329.63	114.63	End Shut-In(1)
90	25.18	114.53	Open To Flow (2)
122	25.41	115.19	Shut-In(2)
182	171.27	116.25	End Shut-In(2)
183	1783.31	116.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

32 16s 19w Rush,KS
Little LLC B 1-32
Job Ticket: 59266 **DST#: 2**
Test Start: 2014.07.09 @ 00:32:00

Tool Information

Drill Pipe:	Length: 3733.00 ft	Diameter: 3.80 inches	Volume: 52.36 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 52.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3769.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3749.00	
Shut In Tool	5.00			3754.00	
Hydraulic tool	5.00			3759.00	
Packer	5.00			3764.00	21.00 Bottom Of Top Packer
Packer	5.00			3769.00	
Stubb	1.00			3770.00	
Perforations	10.00			3780.00	
Change Over Sub	1.00			3781.00	
Recorder	0.00	8789	Inside	3781.00	
Recorder	0.00	8289	Outside	3781.00	
Blank Spacing	31.00			3812.00	
Change Over Sub	1.00			3813.00	
Bullnose	3.00			3816.00	47.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

32 16s 19w Rush, KS
Little LLC B 1-32
Job Ticket: 59266 **DST#: 2**
Test Start: 2014.07.09 @ 00:32:00

Mud and Cushion Information

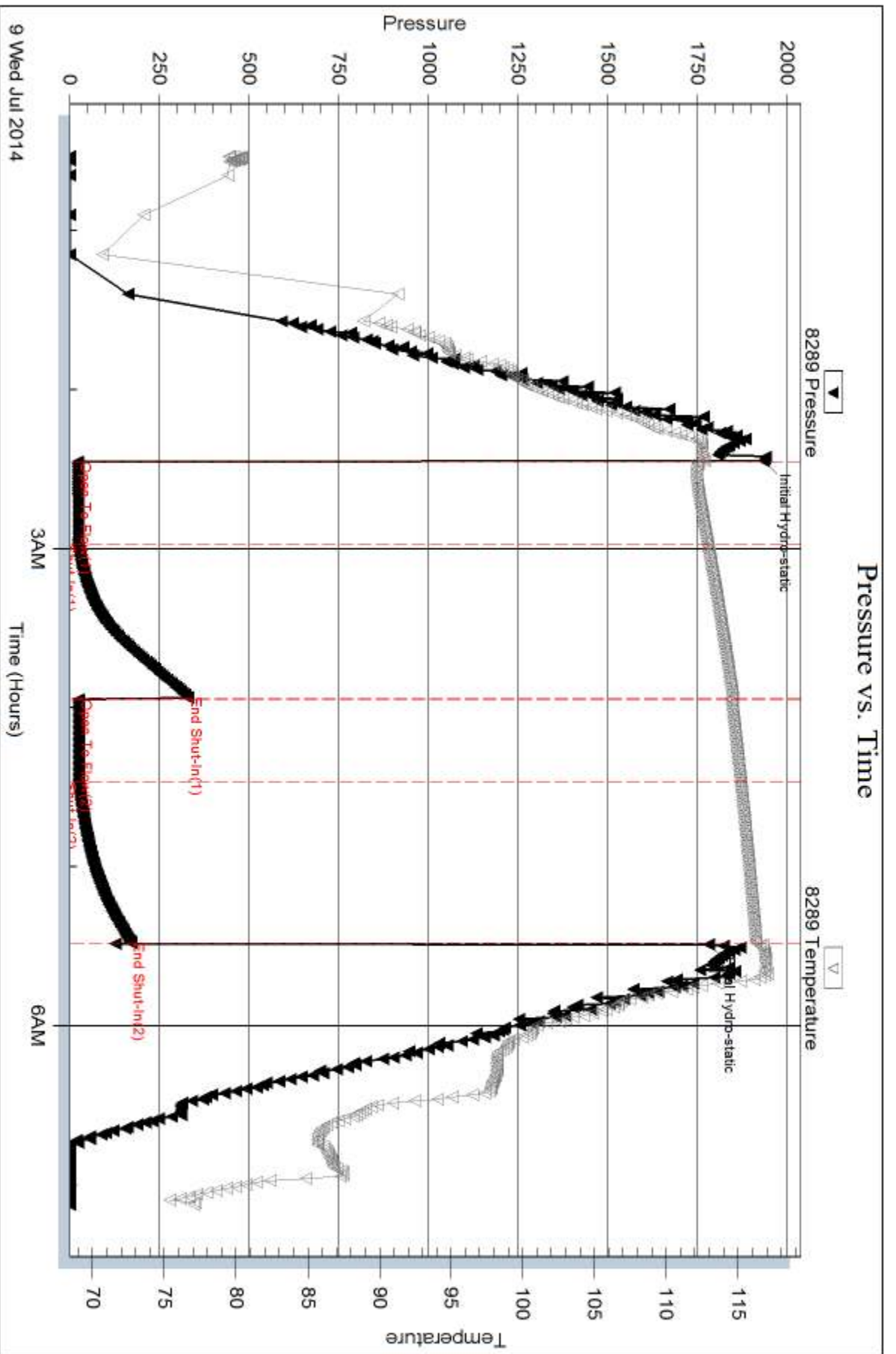
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.93 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 12000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Jeff Christian

Little LLC B 1-32

32 16s 19w Rush,KS

Start Date: 2014.07.09 @ 13:26:00

End Date: 2014.07.09 @ 20:29:00

Job Ticket #: 59267 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.15 @ 07:54:35



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N Water Ste 300
 Wichita KS 67202-1216
 ATTN: Jeff Christian

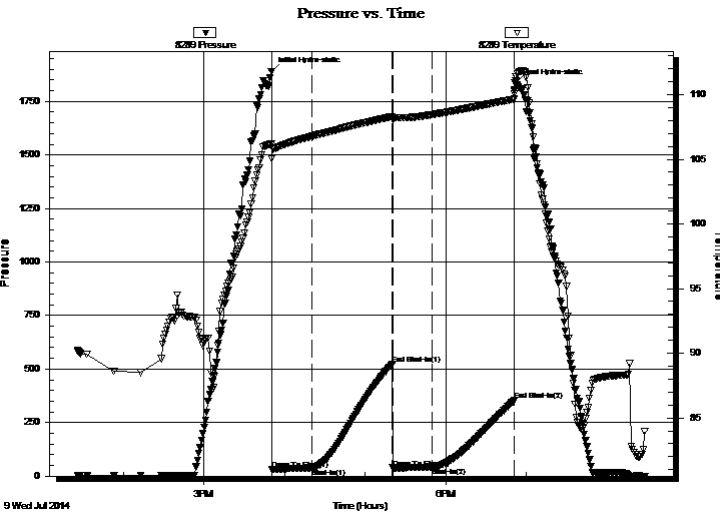
32 16s 19w Rush, KS
Littler LLC B 1-32
 Job Ticket: 59267 **DST#: 3**
 Test Start: 2014.07.09 @ 13:26:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 15:50:30 Tester: Jim Svaty
 Time Test Ended: 20:29:00 Unit No: 76
 Interval: **3768.00 ft (KB) To 3826.00 ft (KB) (TVD)** Reference Elevations: 2064.00 ft (KB)
 Total Depth: 3826.00 ft (KB) (TVD) 2059.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8289 Outside
 Press@RunDepth: 39.89 psig @ 3786.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.09 End Date: 2014.07.09 Last Calib.: 2014.07.09
 Start Time: 13:26:02 End Time: 20:29:00 Time On Btm: 2014.07.09 @ 15:50:15
 Time Off Btm: 2014.07.09 @ 18:51:30

TEST COMMENT: 30-IFP- 1/4" Blow
 60-ISIP- No Blow
 30-FFP- Surface Blow Died in 7 min.
 60-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1890.26	106.20	Initial Hydro-static
1	31.31	105.02	Open To Flow (1)
31	34.87	106.78	Shut-In(1)
90	524.26	108.30	End Shut-In(1)
91	38.59	108.05	Open To Flow (2)
120	39.89	108.45	Shut-In(2)
181	352.41	109.65	End Shut-In(2)
182	1834.49	110.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
32.00	Mud 100%	0.18

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

32 16s 19w Rush,KS
Little LLC B 1-32
Job Ticket: 59267 **DST#: 3**
Test Start: 2014.07.09 @ 13:26:00

Tool Information

Drill Pipe:	Length: 3733.00 ft	Diameter: 3.80 inches	Volume: 52.36 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 52.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3768.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3748.00	
Shut In Tool	5.00			3753.00	
Hydraulic tool	5.00			3758.00	
Packer	5.00			3763.00	21.00 Bottom Of Top Packer
Packer	5.00			3768.00	
Stubb	1.00			3769.00	
Perforations	16.00			3785.00	
Change Over Sub	1.00			3786.00	
Recorder	0.00	8789	Inside	3786.00	
Recorder	0.00	8289	Outside	3786.00	
Blank Spacing	31.00			3817.00	
Change Over Sub	1.00			3818.00	
Perforations	5.00			3823.00	
Bullnose	3.00			3826.00	58.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

32 16s 19w Rush, KS
Little LLC B 1-32
Job Ticket: 59267 **DST#: 3**
Test Start: 2014.07.09 @ 13:26:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.75 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 2.00 inches			

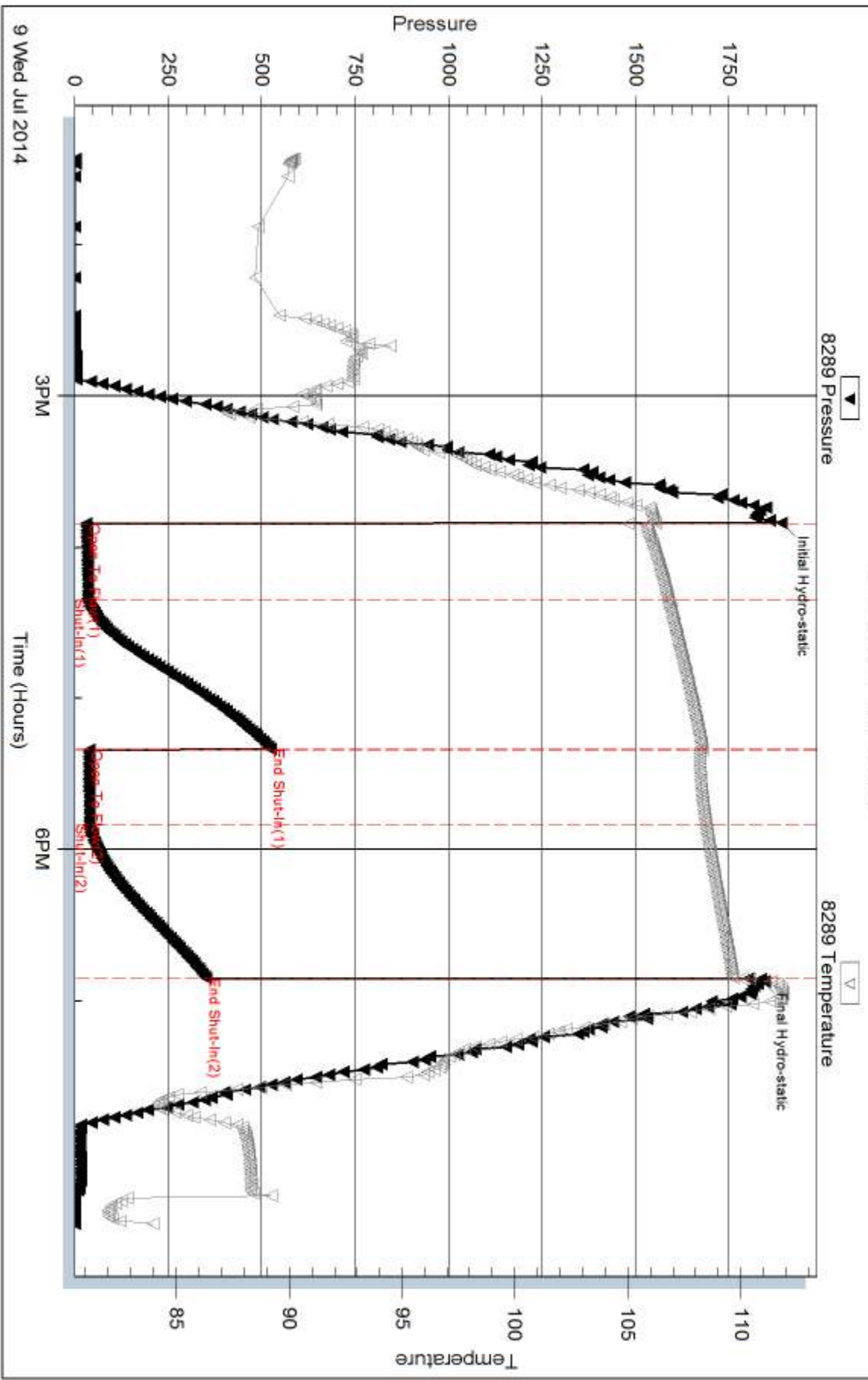
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
32.00	Mud 100%	0.185

Total Length: 32.00 ft Total Volume: 0.185 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time



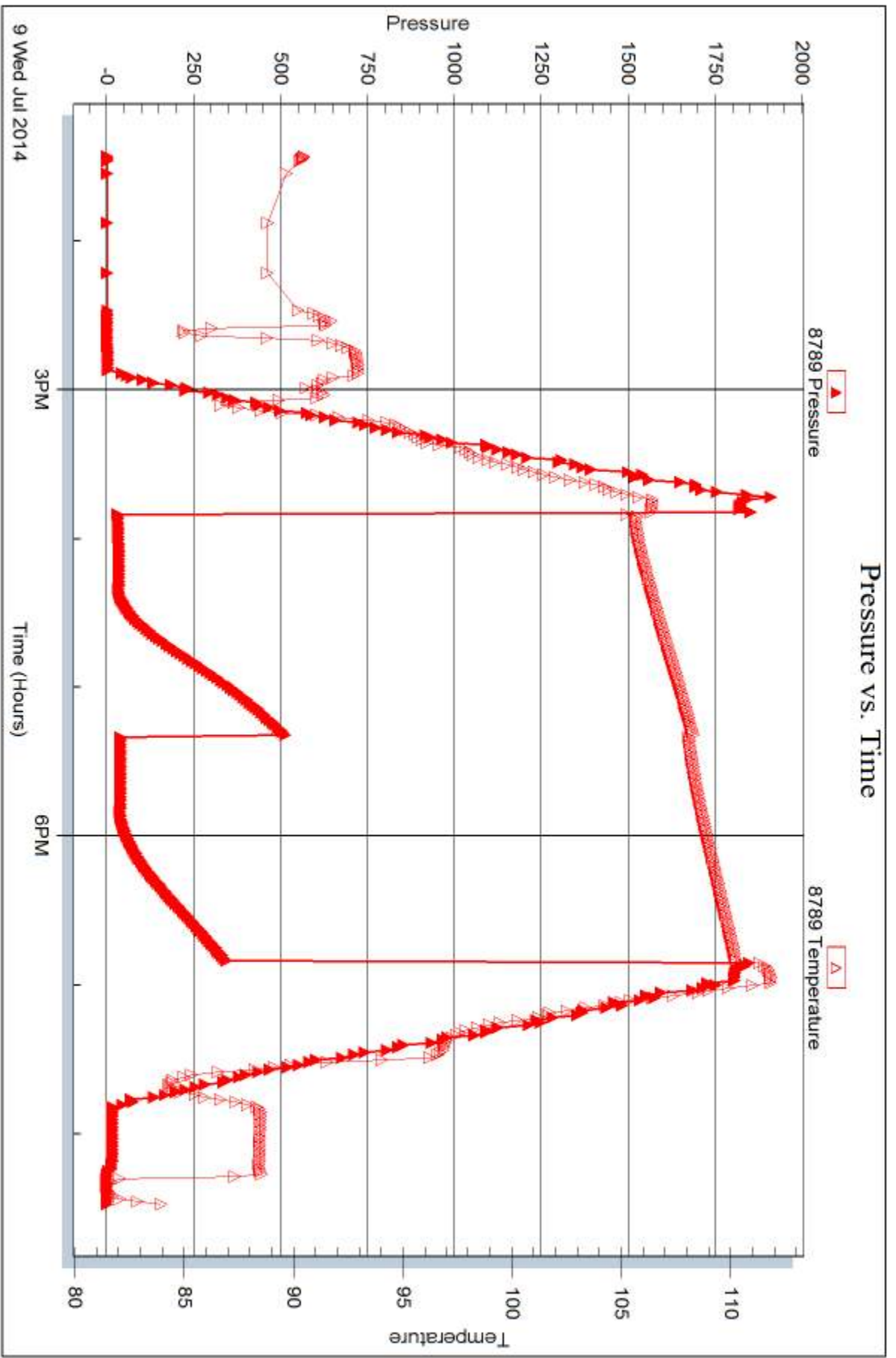
Serial #: 8789

Inside

Murfin Drilling Co Inc

Litter LLC B 1-32

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 59267

Printed: 2014.07.15 @ 07:54:36



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Jeff Christian

Little LLC B 1-32

32 16s 19w Rush,KS

Start Date: 2014.07.10 @ 03:05:00

End Date: 2014.07.10 @ 10:19:00

Job Ticket #: 59268 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.15 @ 07:53:35



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

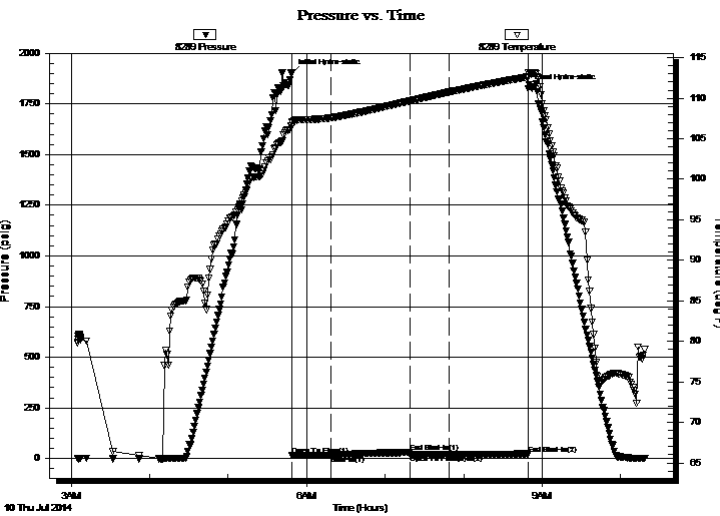
32 16s 19w Rush,KS
Littler LLC B 1-32
Job Ticket: 59268 **DST#: 4**
Test Start: 2014.07.10 @ 03:05:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:49:00
Time Test Ended: 10:19:00
Interval: **3824.00 ft (KB) To 3836.00 ft (KB) (TVD)**
Total Depth: 3836.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2064.00 ft (KB)
2059.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 76

Serial #: 8289 Outside
Press@RunDepth: 20.89 psig @ 3825.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.07.10 End Date: 2014.07.10 Last Calib.: 2014.07.10
Start Time: 03:05:02 End Time: 10:19:00 Time On Btm: 2014.07.10 @ 05:48:45
Time Off Btm: 2014.07.10 @ 08:49:15

TEST COMMENT: 30-IFP- Weak Surface Blow Died in 12 min.
60-ISIP- No Blow
30-FFP- No Blow
60-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.23	107.04	Initial Hydro-static
1	17.50	106.58	Open To Flow (1)
30	17.76	107.59	Shut-In(1)
90	30.42	109.66	End Shut-In(1)
91	20.67	109.66	Open To Flow (2)
120	20.89	110.74	Shut-In(2)
181	22.81	112.62	End Shut-In(2)
181	1826.06	113.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

32 16s 19w Rush,KS
Littler LLC B 1-32
Job Ticket: 59268 **DST#: 4**
Test Start: 2014.07.10 @ 03:05:00

Tool Information

Drill Pipe:	Length: 3797.00 ft	Diameter: 3.80 inches	Volume: 53.26 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 53.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3824.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3804.00	
Shut In Tool	5.00			3809.00	
Hydraulic tool	5.00			3814.00	
Packer	5.00			3819.00	21.00 Bottom Of Top Packer
Packer	5.00			3824.00	
Stubb	1.00			3825.00	
Recorder	0.00	8789	Inside	3825.00	
Recorder	0.00	8289	Outside	3825.00	
Blank Spacing	8.00			3833.00	
Bullnose	3.00			3836.00	12.00 Bottom Packers & Anchor
Total Tool Length:	33.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

32 16s 19w Rush, KS
Little LLC B 1-32
Job Ticket: 59268 **DST#: 4**
Test Start: 2014.07.10 @ 03:05:00

Mud and Cushion Information

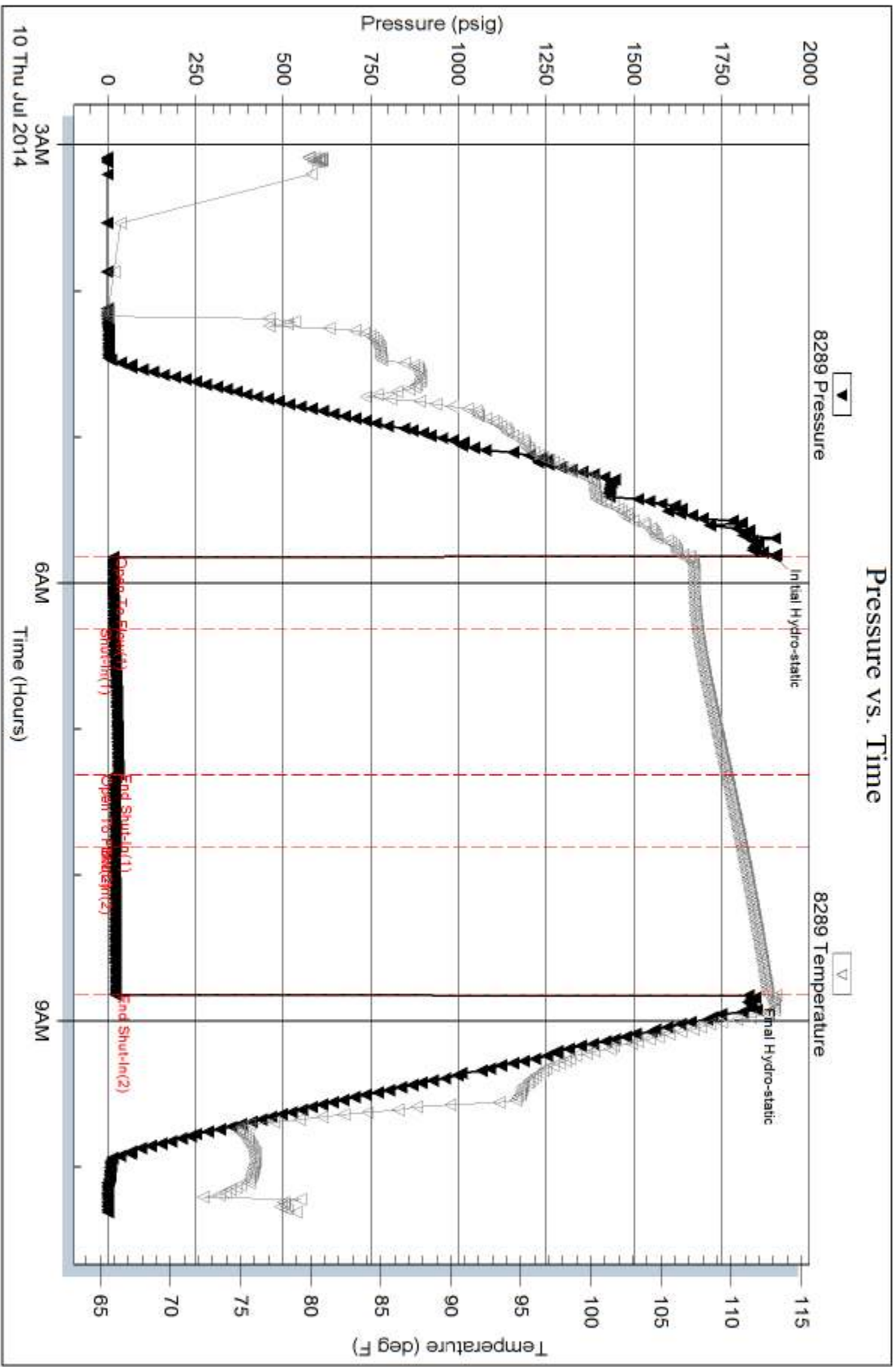
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



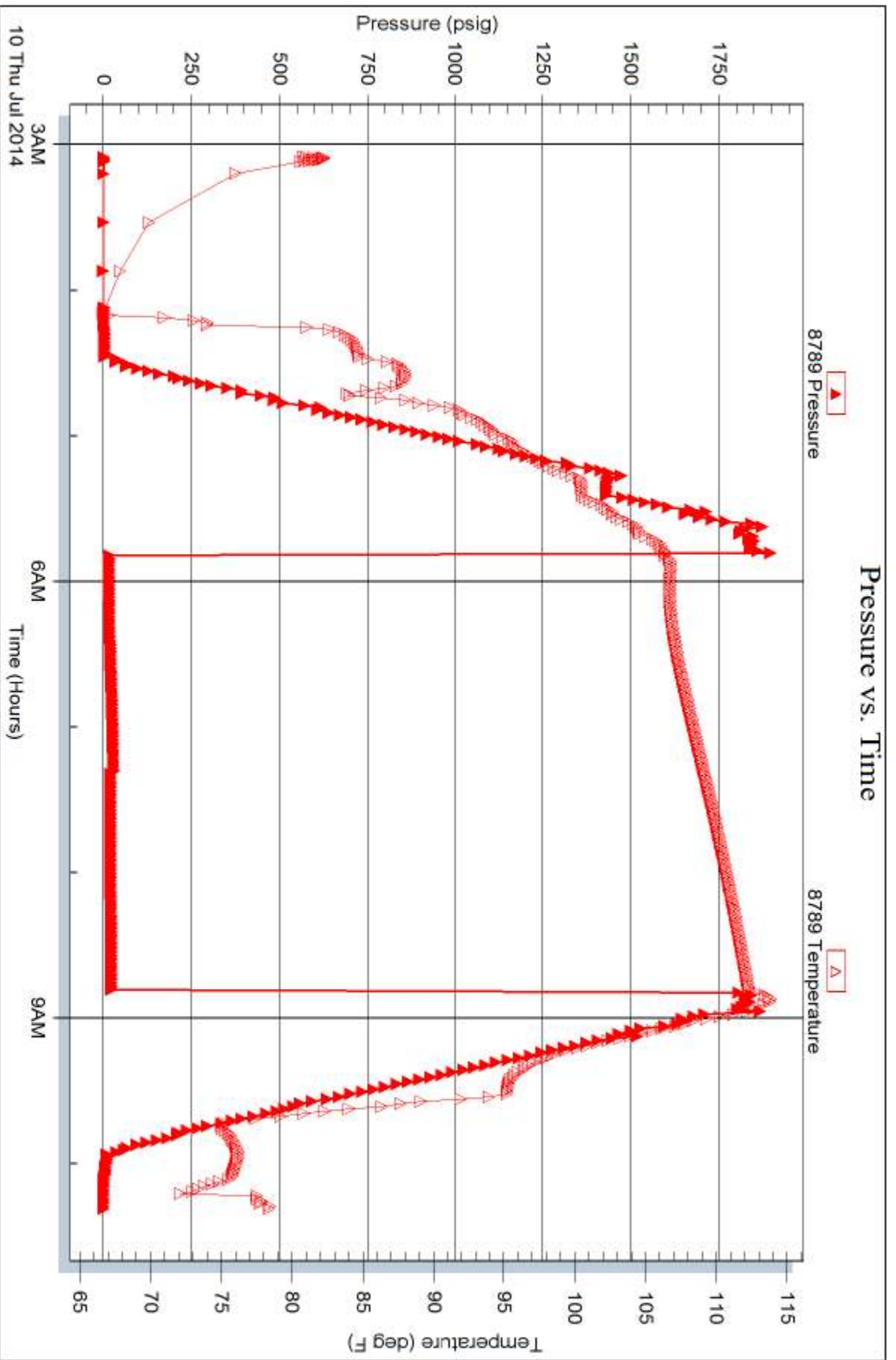
Serial #: 8789

Inside

Murfin Drilling Co Inc

Litter LLC B 1-32

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59265 21234

Well Name & No. Little LLC "B" #1-32 Test No. 1 Date 7-8-14
 Company Murfin Drilling Co. Inc. Elevation 2064 KB 2059 GL
 Address 250 N. Water Ste 300 Wichita KS 67202-1216
 Co. Rep / Geo. JEFF CHRISTIAN Rig Rush Murfin 16
 Location: Sec. 32 Twp. 16^S Rge. 19W Co. Rush State KS

Interval Tested 3793-3816 Zone Tested Arbuckle
 Anchor Length 23 Drill Pipe Run 3766 Mud Wt. 9.5
 Top Packer Depth 3788 Drill Collars Run 29 Vis 57
 Bottom Packer Depth 3793 Wt. Pipe Run 0 WL 12
 Total Depth 3816 Chlorides 12000 ppm System LCM N/A

Blow Description Miss Run - Packer Failed

Rec	Feet of	%gas	%oil	%water	%mud
<u>160</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 160 BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic _____ Test _____ 950 T-On Location 18:40
 (B) First Initial Flow _____ Jars _____ T-Started 20:20
 (C) First Final Flow _____ Safety Joint _____ T-Open 22:07
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 22:15
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 00:15
 (F) Second Final Flow _____ Mileage 52 RT 80.60 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open _____ Extra Packer _____ Extra Copies _____
 Initial Shut-In _____ Extra Recorder _____ Sub Total 0
 Final Flow _____ Day Standby _____ Total 1030.60
 Final Shut-In _____ Accessibility _____ MP/DST Disc't _____
 Sub Total 1030.60

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59266

Well Name & No. Littler LLC "B" 1-32 Test No. 2 Date 7-9-14
 Company Murfin Drilling Co. Inc. Elevation 2064 KB 2059 GL
 Address 250 N. Water Ste 300 Wichita KS. 67202-1216
 Co. Rep / Geo. JEFF CHRISTIAN Rig Murfin 16
 Location: Sec. 32 Twp. 16^s Rge. 19^w Co. Rush State KS

Interval Tested 3769-3816 Zone Tested Arbuckle
 Anchor Length 47 Drill Pipe Run 3733 Mud Wt. 9.5
 Top Packer Depth 3764 Drill Collars Run 29 Vis 57
 Bottom Packer Depth 3769 Wt. Pipe Run 0 WL 12
 Total Depth 3816 Chlorides 12000 ppm System LCM N/A

Blow Description IFP - Surface Blow (Weak)
ISIP - No Blow
FFP - No Blow
FSIP - No Blow

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

Rec Total 5 BHT 116 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1936 Test 1150 T-On Location 18:40 7-8
 (B) First Initial Flow 23 Jars _____ T-Started 00:32
 (C) First Final Flow 24 Safety Joint _____ T-Open 02:27
 (D) Initial Shut-In 329 Circ Sub _____ T-Pulled 05:27
 (E) Second Initial Flow 25 Hourly Standby _____ T-Out 07:08
 (F) Second Final Flow 25 Mileage _____
 (G) Final Shut-In 171 Sampler _____
 (H) Final Hydrostatic 1783 Straddle _____

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 60 Shale Packer _____ Ruined Packer _____
 Final Flow 30 Extra Packer _____ Extra Copies _____
 Final Shut-In 60 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1150
 Accessibility _____ MP/DST Disc't _____

Sub Total 1150

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59267

Well Name & No. LITLER LLC "B" 1-32 Test No. 3 Date 7-9-14
 Company MURFIN Drilling Co. Inc. Elevation 2064 KB 2059 GL
 Address 250 N. WATER STE 300 WICHITA KS 67202-1216
 Co. Rep / Geo. JEFF CHRISTIAN Rig MURFIN 16
 Location: Sec. 32 Twp. 16^S Rge. 19^W Co. Rush State KS

Interval Tested 3768-3826 Zone Tested Arbuckle
 Anchor Length 58 Drill Pipe Run 3733 Mud Wt. 9.5
 Top Packer Depth 3763 Drill Collars Run 29 Vis 67
 Bottom Packer Depth 3768 Wt. Pipe Run 0 WL 12.8
 Total Depth 3826 Chlorides 8000 ppm System LCM 2

Blow Description IFP - 1/4 in. Blow
ISIP - No Blow
FFP - Surface Blow Died in 7 min.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>32</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 32 BHT 111 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1890</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>13:25</u>
(B) First Initial Flow <u>31</u>	<input type="checkbox"/> Jars _____	T-Started <u>13:26</u>
(C) First Final Flow <u>34</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>15:51</u>
(D) Initial Shut-In <u>524</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>18:51</u>
(E) Second Initial Flow <u>38</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>20:29</u>
(F) Second Final Flow <u>39</u>	<input checked="" type="checkbox"/> Mileage <u>80.60</u>	Comments _____
(G) Final Shut-In <u>352</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1834</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1230.60</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1230.60</u>	

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59268

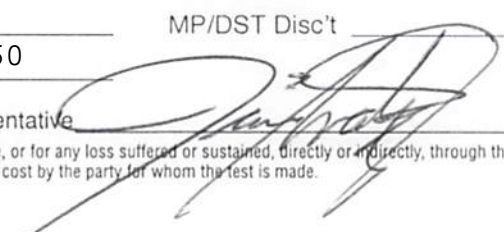
Well Name & No. Littler LLC "B" 1-32 Test No. 4 Date 7-10-14
 Company Murfin Drilling Co. Inc. Elevation 2064 KB 2059 GL
 Address 250 N. WATER Ste 300 WICHITA KS 67202-1216
 Co. Rep / Geo. JEFF CHRISTIAN Rig MURFIN 16
 Location: Sec. 32 Twp. 16^S Rge. 19^W Co. Rush State KS

Interval Tested 3824-3836 Zone Tested Arbuckle
 Anchor Length 12 Drill Pipe Run 3797 Mud Wt. 9.5
 Top Packer Depth 3819 Drill Collars Run 29 Vis 67
 Bottom Packer Depth 3824 Wt. Pipe Run Ø WL 12.8
 Total Depth 3836 Chlorides 8000 ppm System LCM 2

Blow Description I/FP-Weak Surface Blow Died in 12min.
ISIP- No Blow
FFP- No Blow
FSIP- No Blow

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

Rec Total 5 BHT 113 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1901 Test 1150 T-On Location 02:20
 (B) First Initial Flow 17 Jars _____ T-Started 03:05
 (C) First Final Flow 17 Safety Joint _____ T-Open 05:49
 (D) Initial Shut-In 30 Circ Sub _____ T-Pulled 08:49
 (E) Second Initial Flow 20 Hourly Standby _____ T-Out 10:18
 (F) Second Final Flow 20 Mileage 80.60 Comments _____
 (G) Final Shut-In 22 Sampler _____
 (H) Final Hydrostatic 1826 Straddle _____ Ruined Shale Packer _____
 Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 60 Extra Packer _____ Extra Copies _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 60 Day Standby _____ Total 1230.60
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1230.60

Approved By _____ Our Representative 

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Jeff Christian

PETROLEUM GEOLOGIST

Wichita, Kansas

GEOLOGISTS' REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR	MUSEFIN DRILLING COMPANY	ELEVATIONS	KB 2064'
LEASE	LITTLER LLC 'B' #1-32	GEL	2059'
LOCATION	335' TWP & 2305' FEL	MEASUREMENTS FROM KB	
SEC.	32 TWP 16 S R19 W	CASING RECORD	
COUNTY	RUSH STATE KANSAS	CONDUCTOR	NONE
FIELD	HAMPTON NORTHEAST	Surface	8 5/8" @ 217'
API	15-165-22082	W/ 150 SX	
CONTRACTOR	COMPLY TOOLS	Production	NONE
DRILLING STARTED	07/03/2014	COMPLETED	07/11/2014
MUD DISPLACED	2832'	MUD TYPE	CHEMICAL
DRILLING TIME KEPT FROM	3010'	TO	RTD
SAMPLES SAVED FROM	3010'	TO	RTD
SAMPLES EXAMINED FROM	3010'	TO	RTD
GEOLOGICAL SUPERVISION FROM	3060'	TO	RTD

FORMATION NAME	LOG	TOP DATUM	SAMPLE DATUM	MEL	BHCS
ANHYDRITE	1302	(+762)	1304	(+760)	
BASE ANHYDRITE	1340	(+724)	1339	(+725)	
TOPEKA	3108	(-1044)	3112	(-1048)	
HEEBNER	3396	(-1332)	3396	(-1332)	
TORONTO	3414	(-1350)	3416	(-1352)	
LANSING	3441	(-1377)	3442	(-1378)	
PAWNEE	3698	(-1634)	3698	(-1634)	
ARBUCLE	3741	(-1677)	3739	(-1675)	
RTD	3805	(-1741)	3812	(-1748)	
TOTAL DEPTH	3913	(-1849)	3910	(-1846)	

DATE	7:00 AM DEPTH	REMARKS
7/3/14	MIRT	SPUD 2:00 pm
7/4/14	630'	DRLG dev. 1/4 deg. @ 220'
7/5/14	2240'	Twisted Off @ 2764'. Fished 12 Drill Collars & Bit
7/6/14	2780'	DRLG
7/7/14	3310'	DRLG
7/8/14	3680'	DRLG
7/9/14	3816'	TOH w/ DST # 2 dev. 1 deg.
7/10/14	3836'	OB w/ DST # 4 RTD 3910' @ 6:40 pm dev. 1 1/4 deg.
7/11/14	3910'	Finish logging @ 5:00 am

Remarks

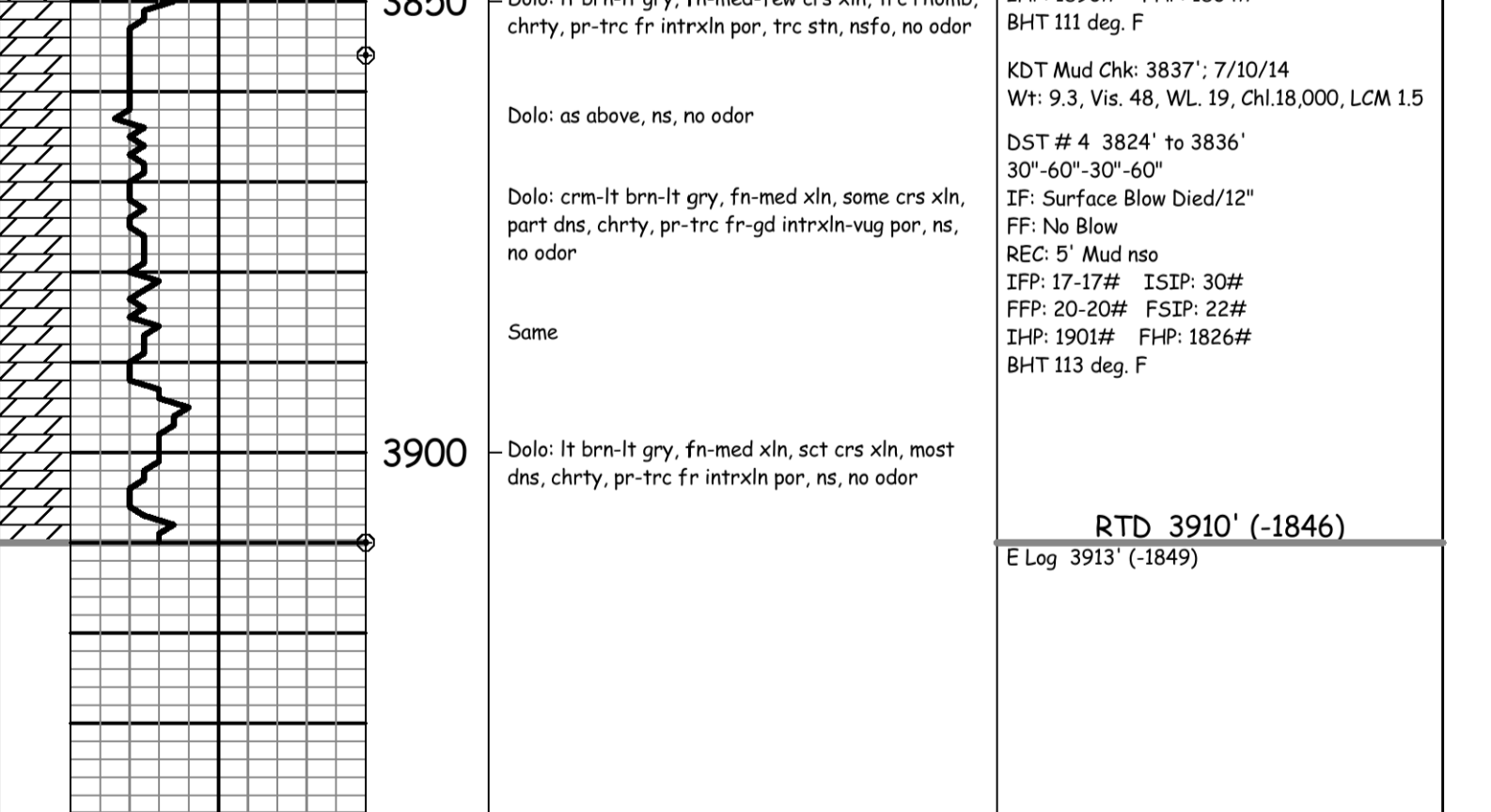
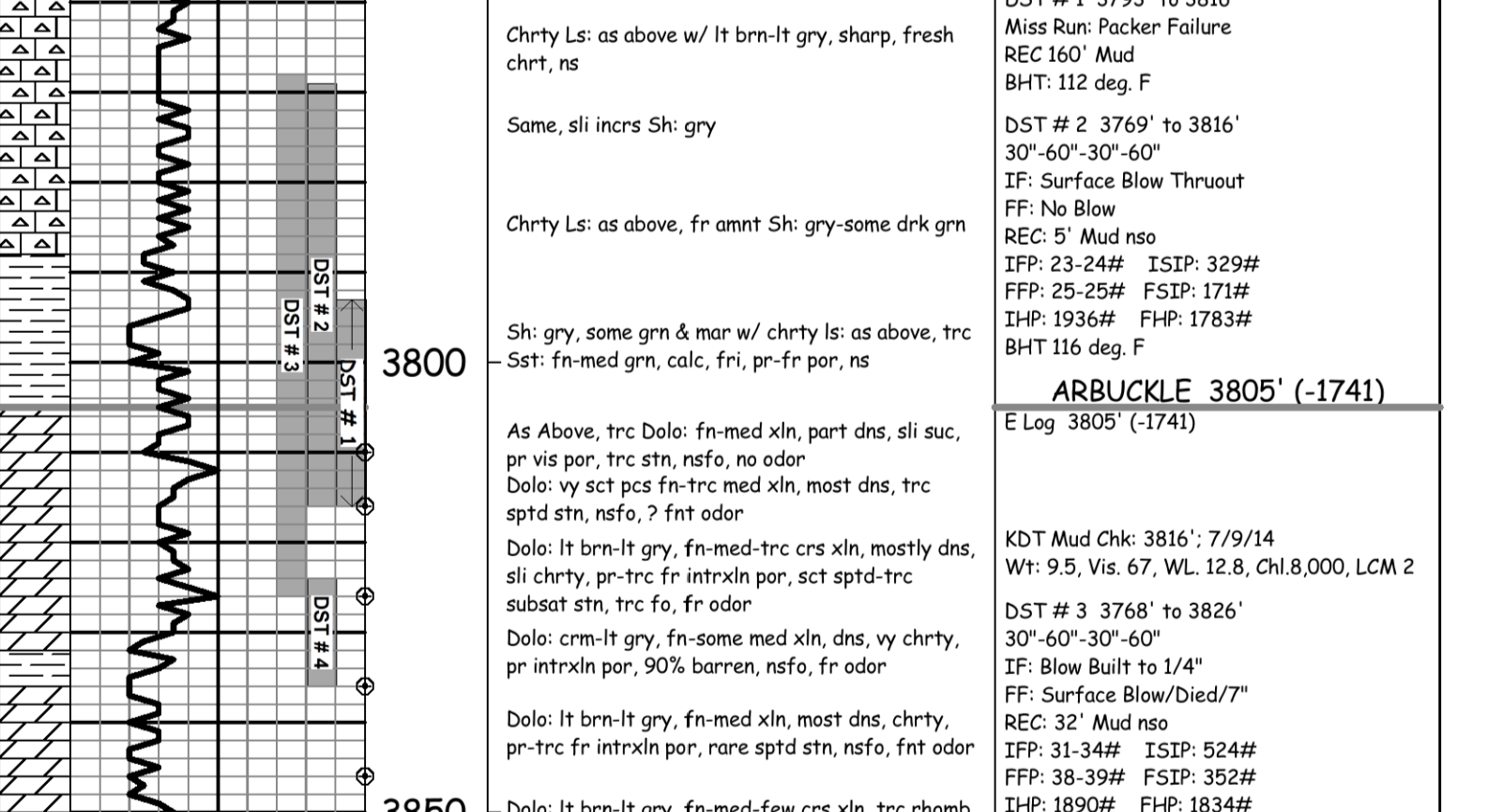
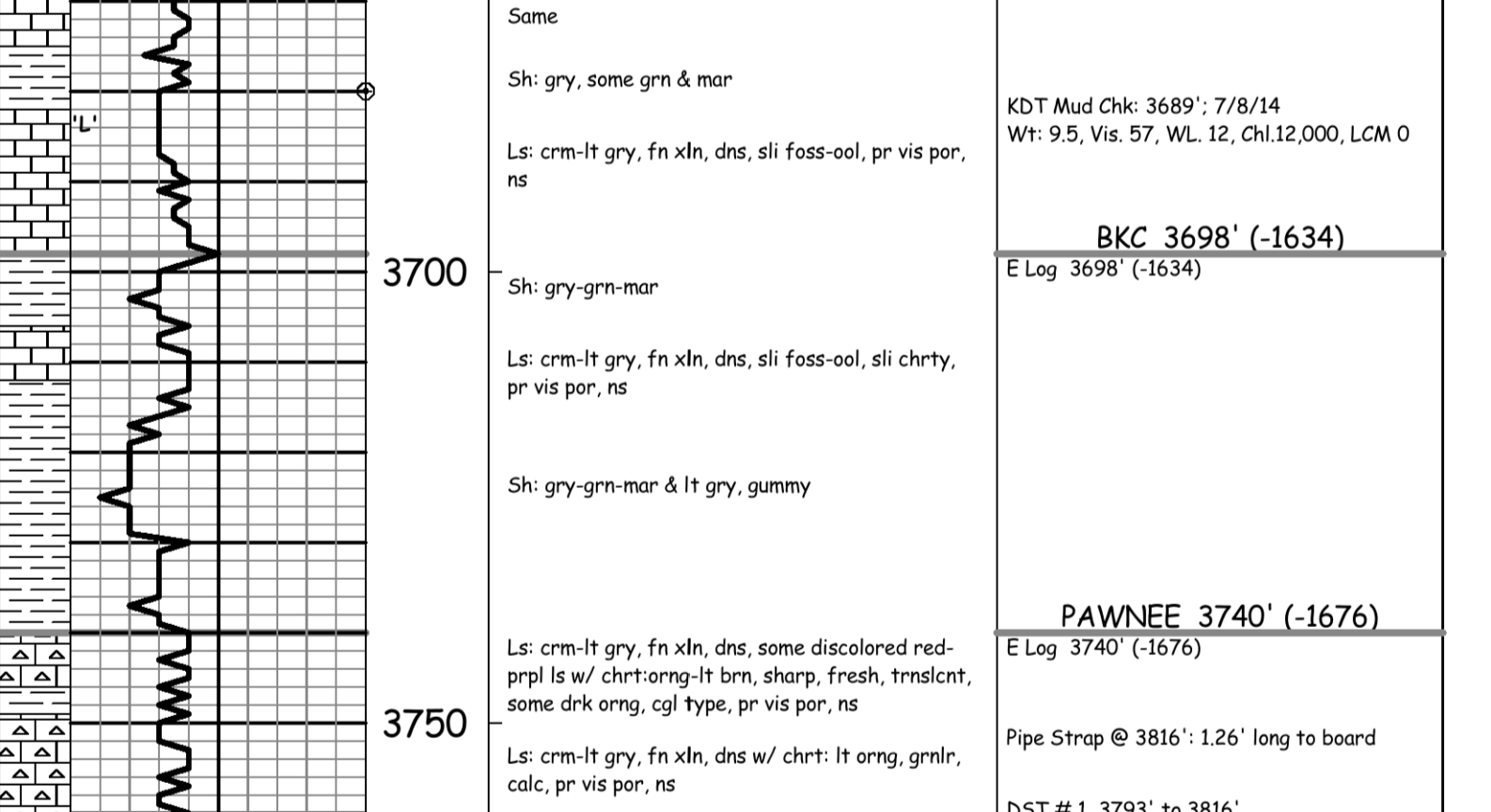
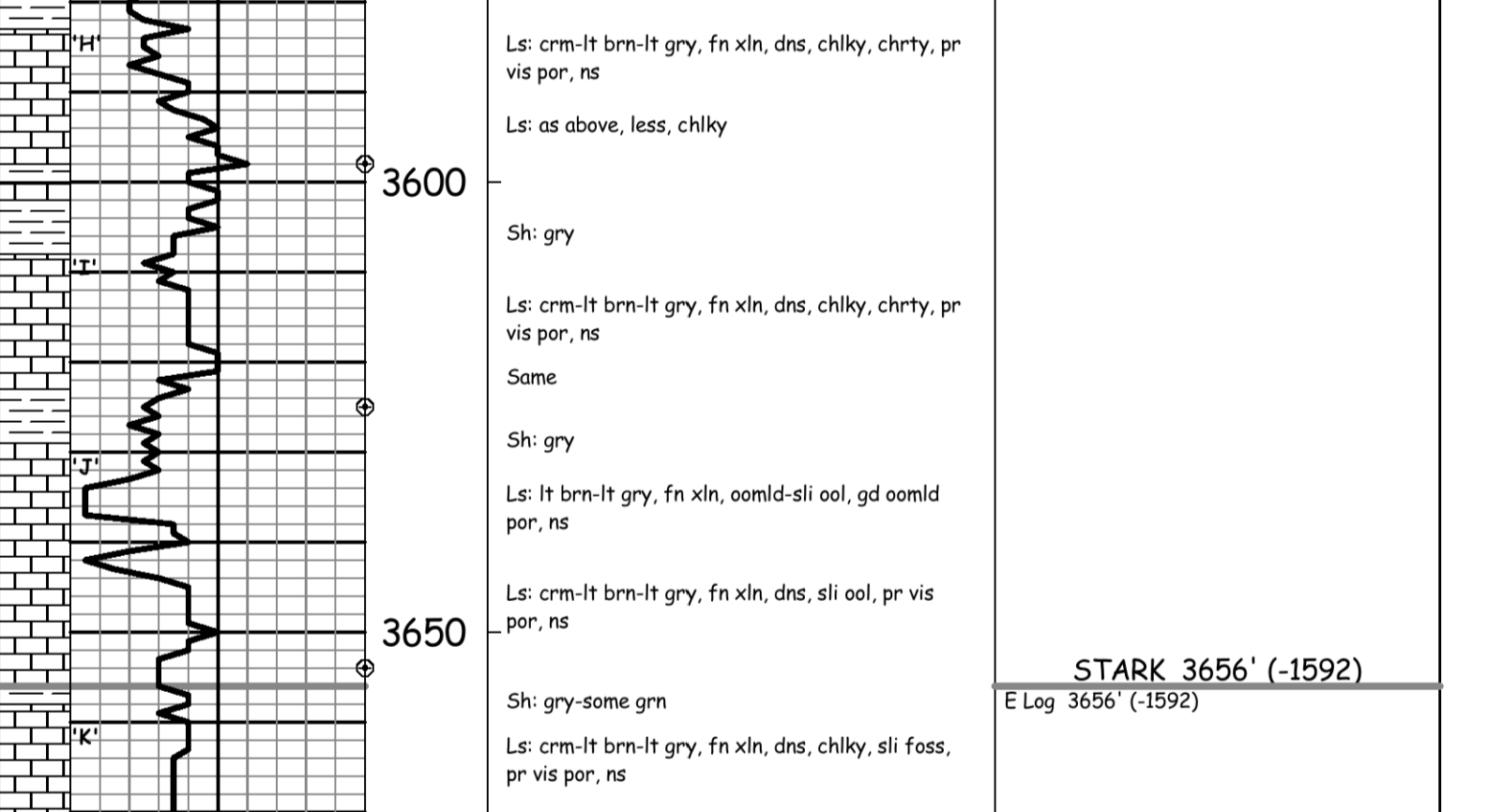
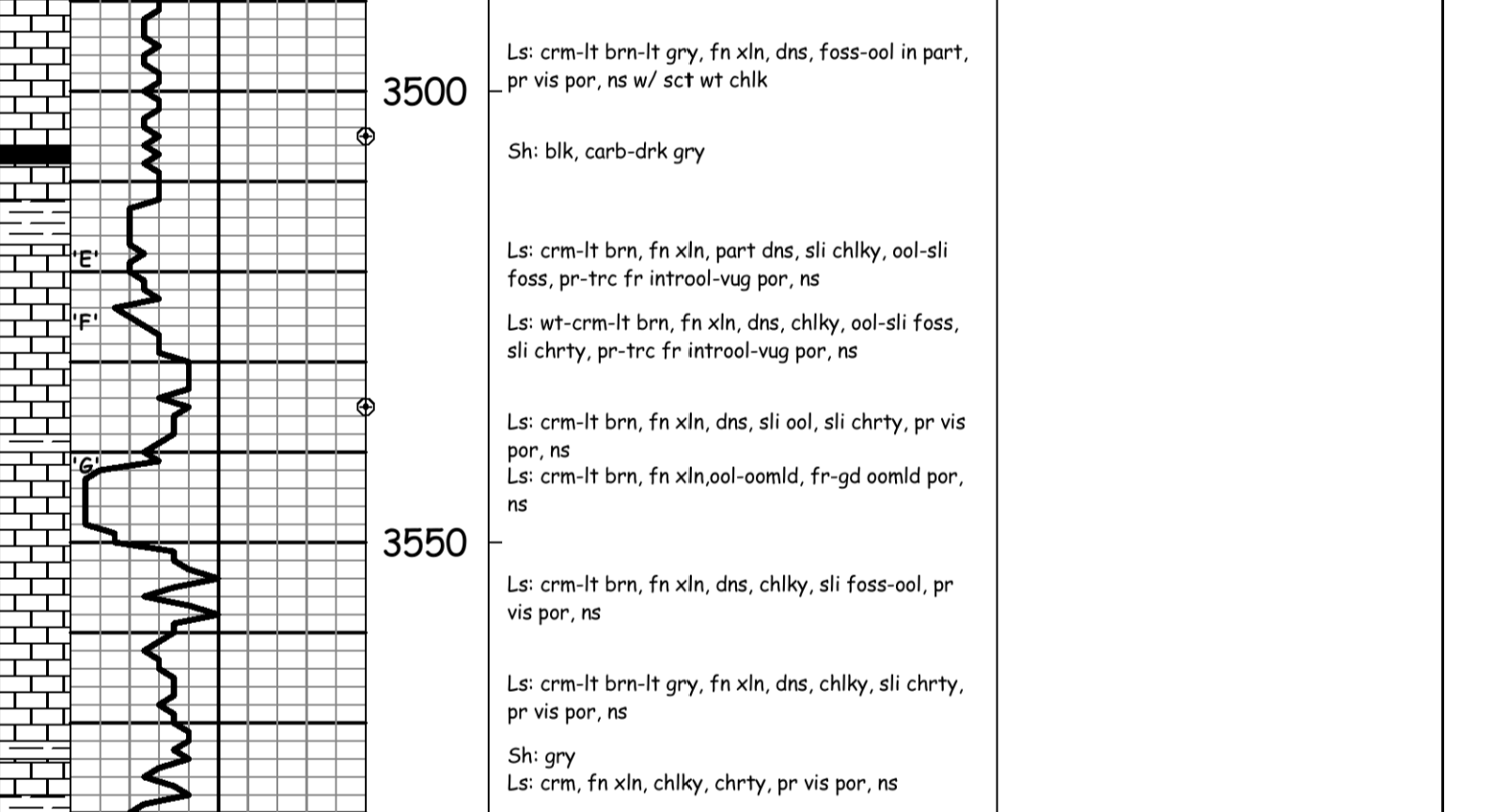
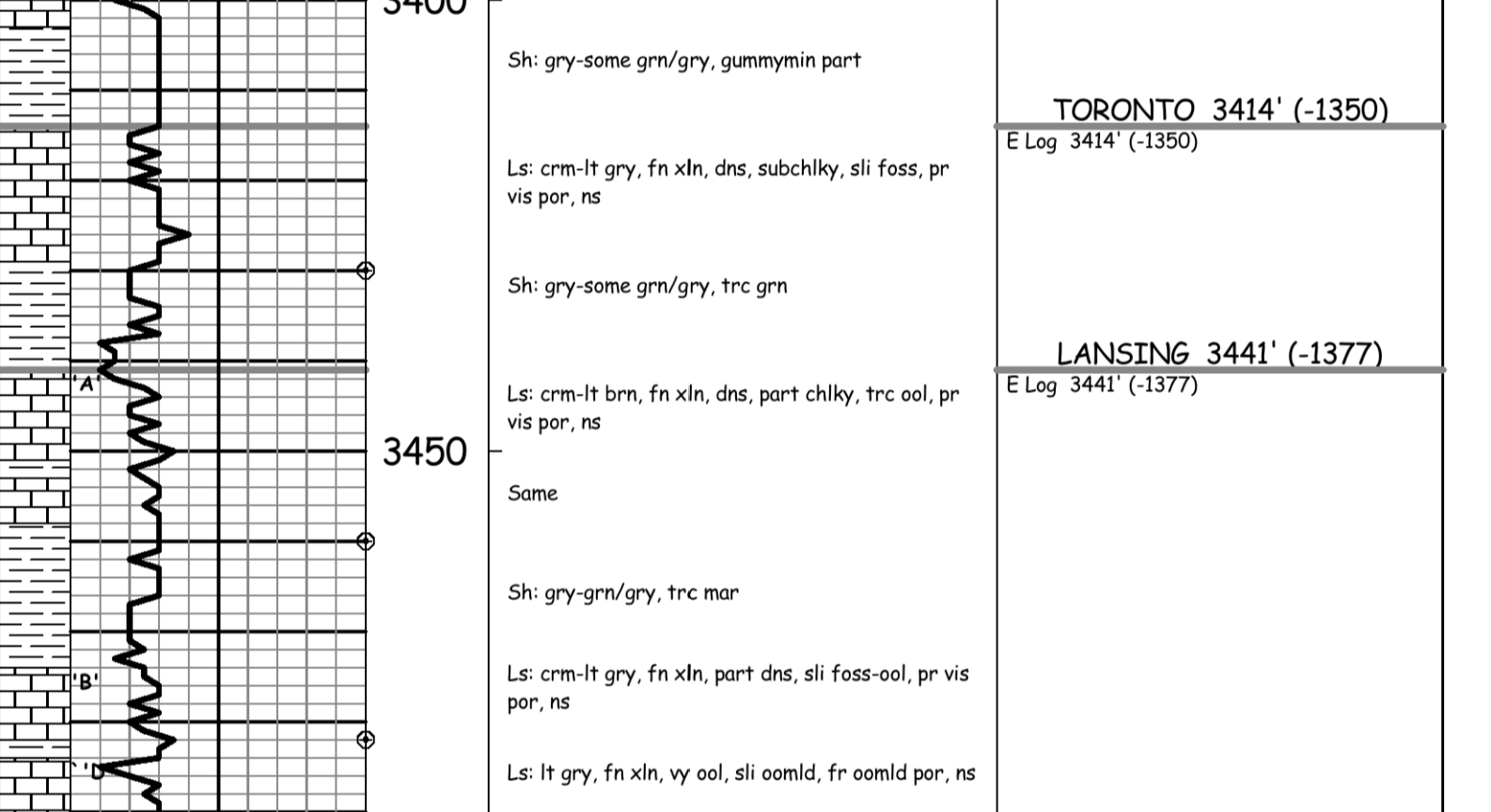
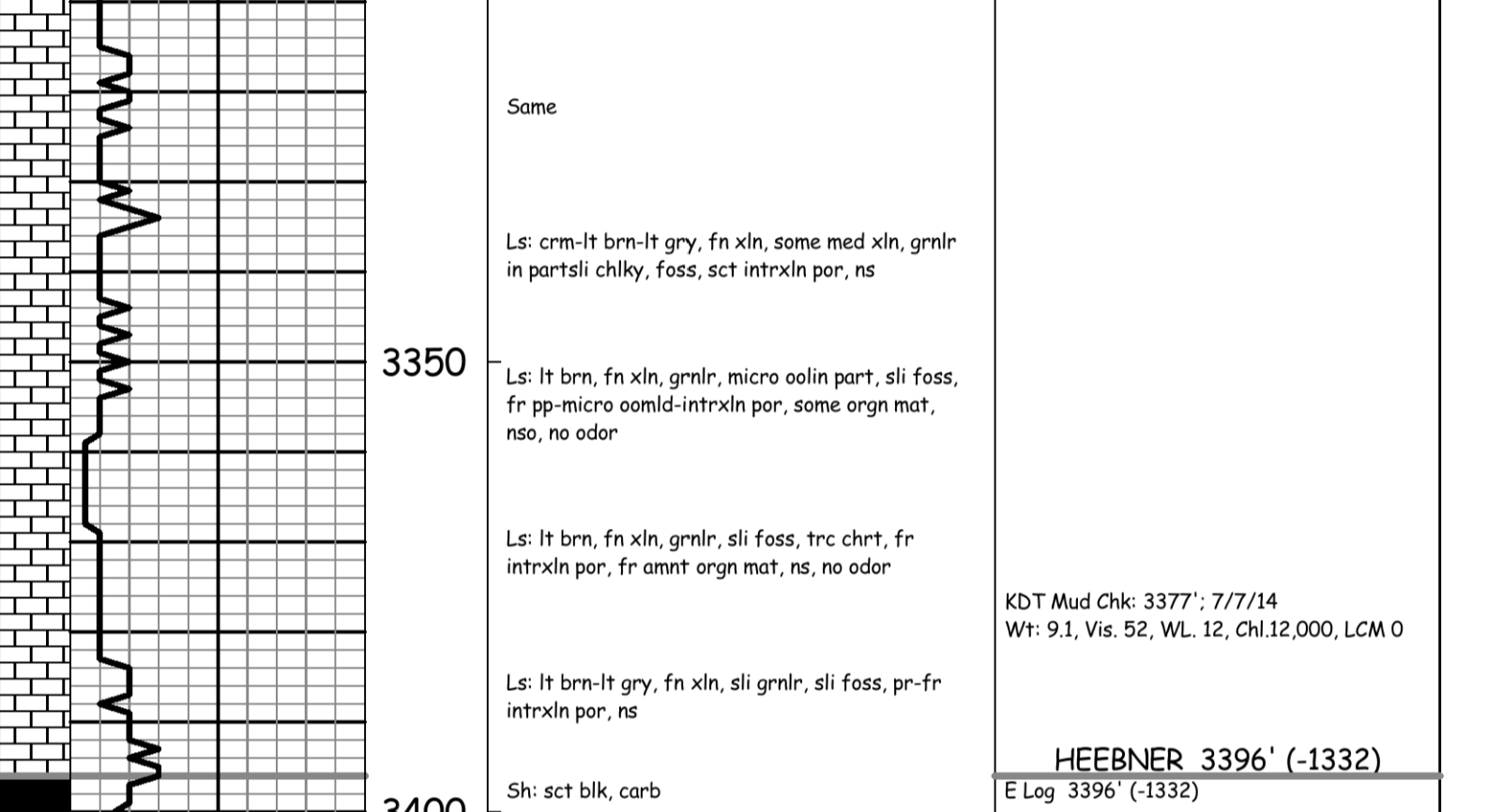
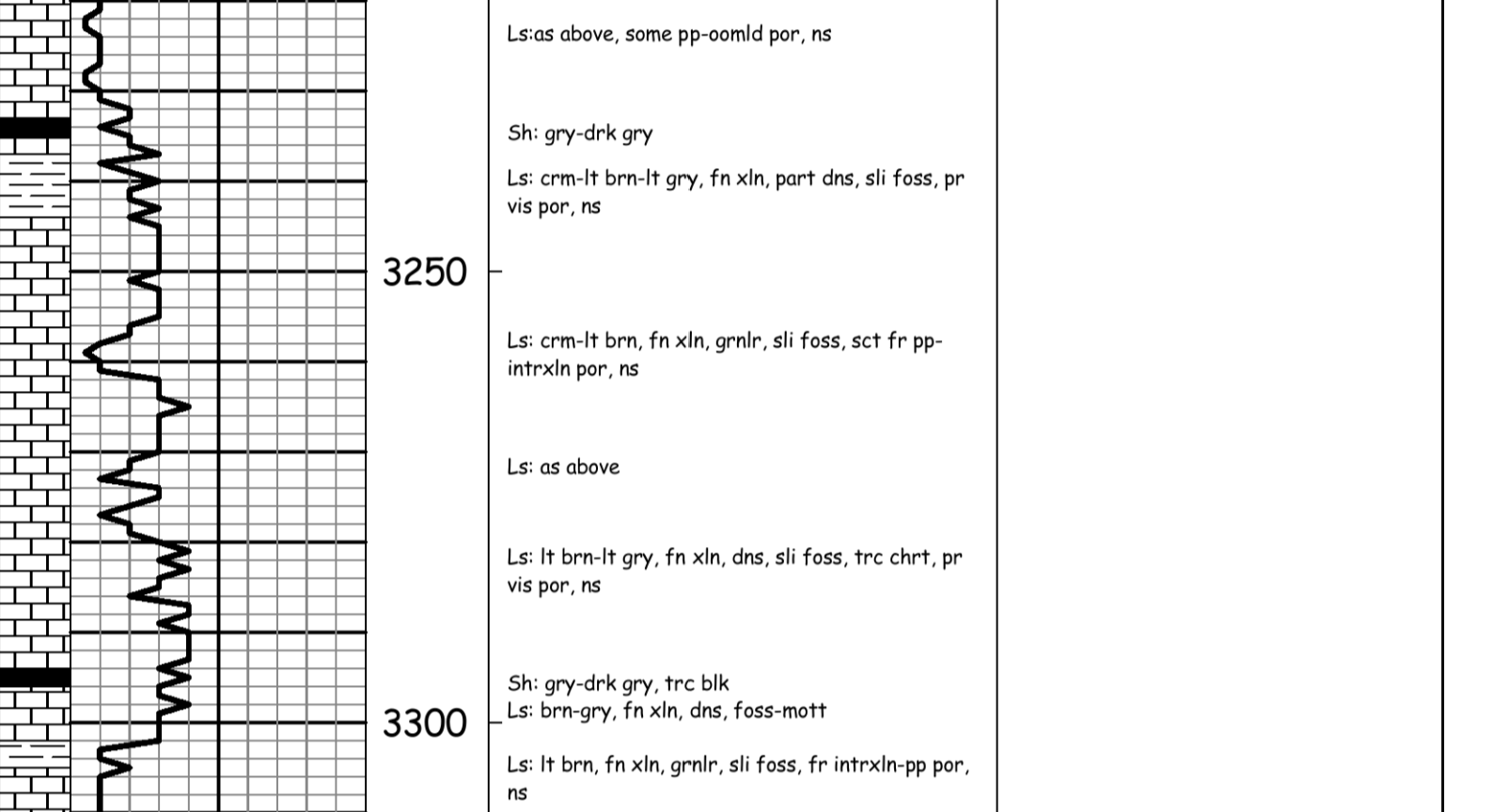
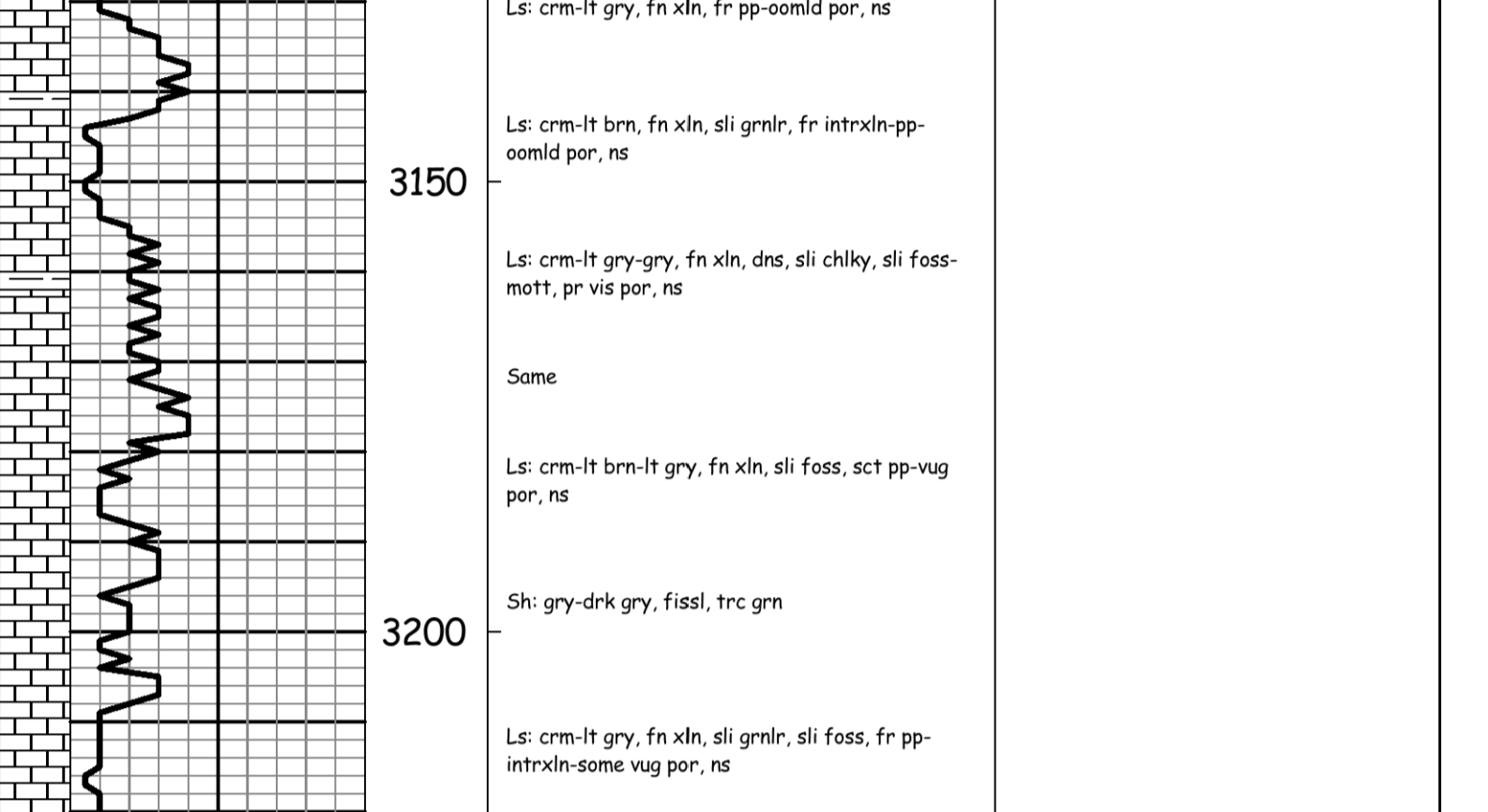
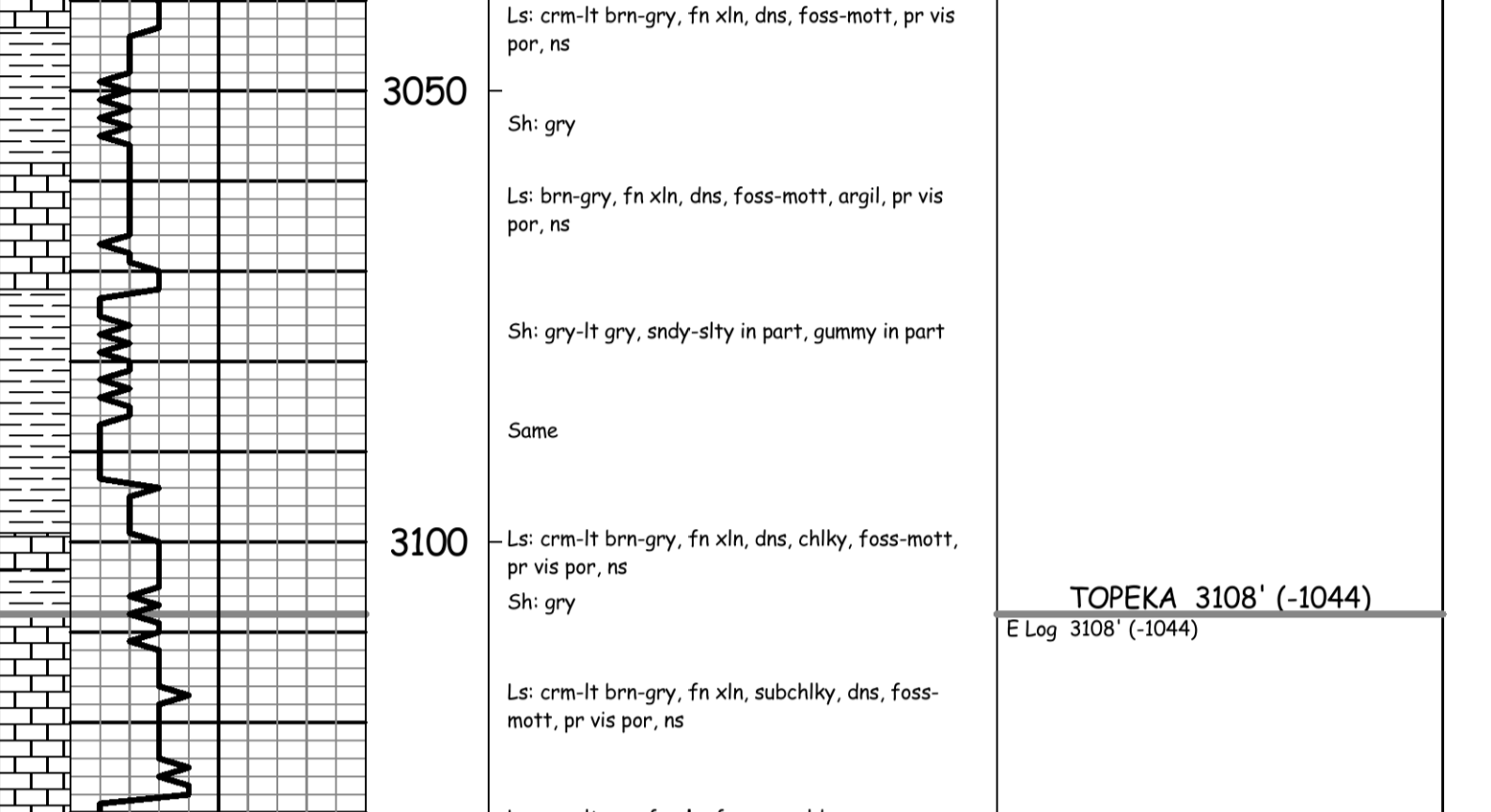
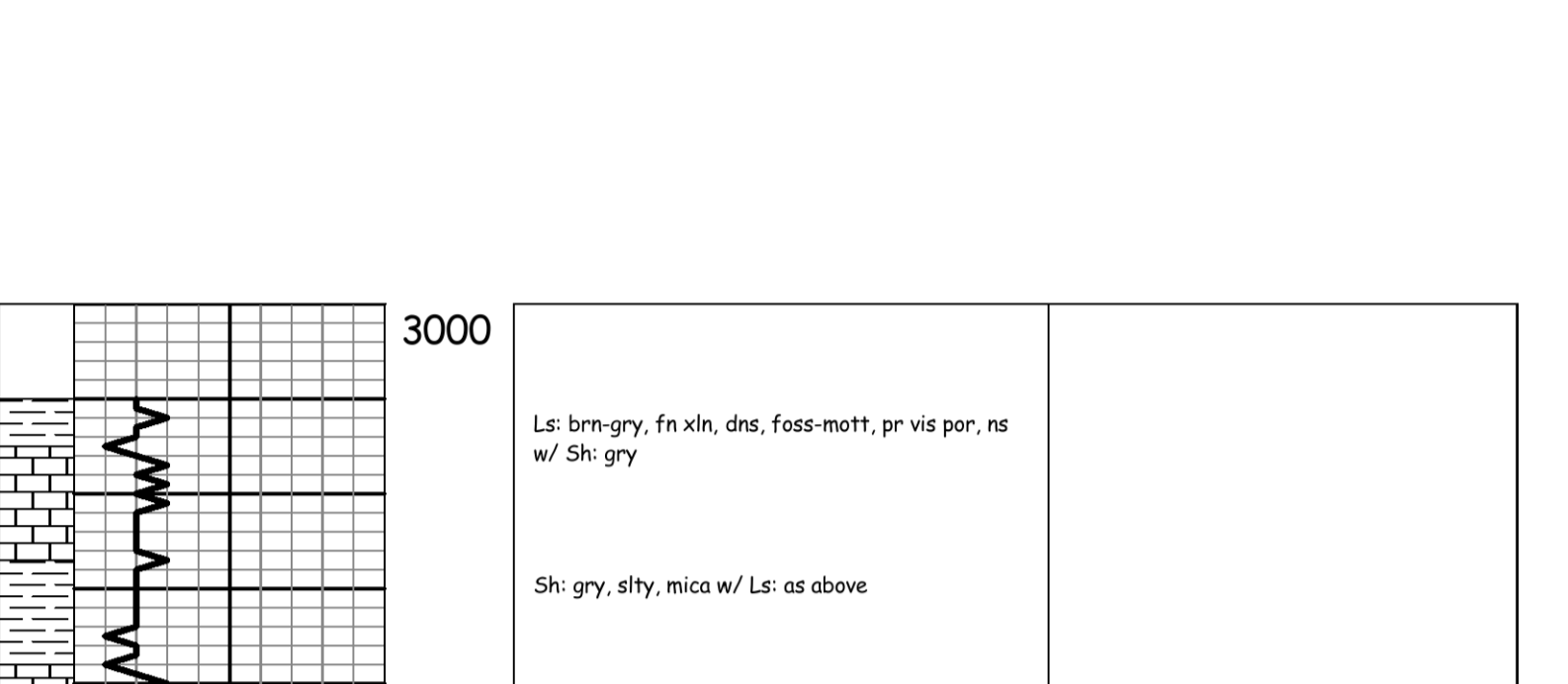
The Littler LLC 'B' #1-32 was declared dry and abandoned.
 All shows of oil were drill stem tested and condemned.

Electric log measurements correlate about even compared to rotary measurements.

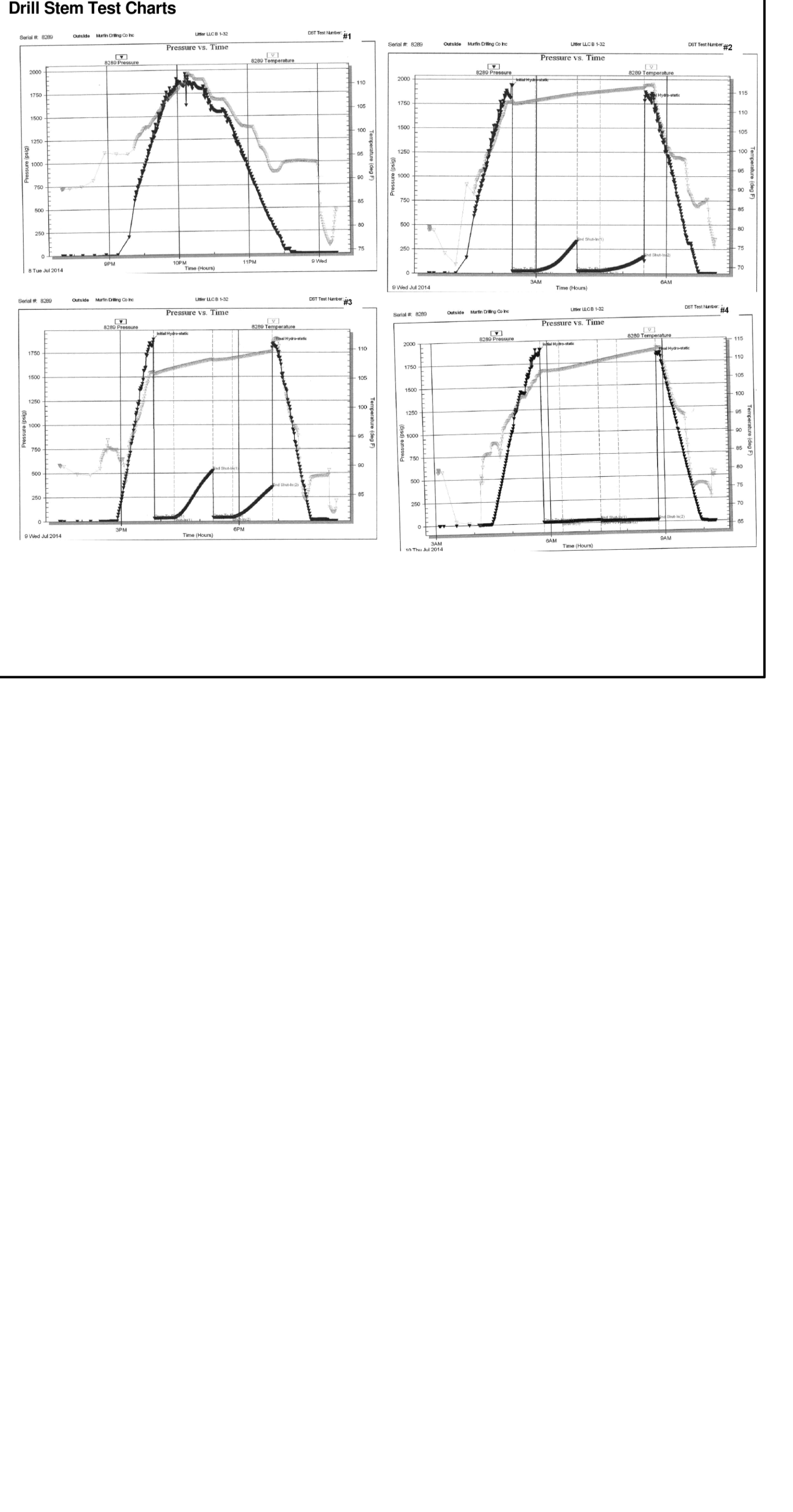
Samples deposited at the Kansas Geological Survey.

Respectfully Submitted,
Jeff Christian
 Jeff Christian

LITH	DRILL TIME (MIN/FT)	DEPTH (FT)	SAMPLE DESCRIPTIONS	REMARKS
------	---------------------	------------	---------------------	---------



Drill Stem Test Charts





QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 7/3/2014
 Invoice # 308

acct. Prod-MG

P.O.#:
 Due Date: 8/2/2014
 Division: *Russell*

Invoice

Contact:
 Murfin Drilling Company
Address/Job Location:
 Murfin Drilling Company
 P.O. Box 288
 Russell Ks 67665

USED FOR _____

APPROVED _____

OPERATOR PAY MDC
 LEASE: *Bm*

Reference:
Littler LLC B 1-32

Description of Work:
SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	No				
Common-Class A	150	\$ 2,514.71	Yes				
Bulk Truck Matl-Material Service Charge	158	\$ 353.18	No				
Calcium Chloride	5	\$ 311.04	Yes				
Pump Truck Mileage-Job to Nearest Camp	23	\$ 256.54	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	23	\$ 150.12	No				
Premium Gel (Bentonite)	3	\$ 54.59	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,660.72
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (699.11)

SubTotal for Taxable Items:	\$ 2,448.28
SubTotal for Non-Taxable Items:	\$ 1,513.33
Total:	\$ 3,961.61
Tax:	\$ 150.57

6.15% Rush County Sales Tax

Thank You For Your Business!

Amount Due: \$ 4,112.18
Applied Payments:
Balance Due: \$ 4,112.18

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

[Handwritten signature]

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

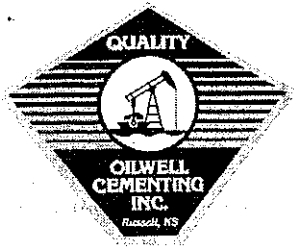
Phone 785-483-2025
Cell 785-324-1041

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

No. 308

Date	7-3-14	Sec.	32	Twp.	16	Range	19	County	Rush	State	KS	On Location	5:15pm	Finish	6:00pm
Lease	Little HC "B"			Well No.	F-32		Owner	LS VgW Sinto							
Contractor	Murfin			16	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	Surface			Charge To											
Hole Size	12 1/4			T.D.	270		Street								
Csg.	8 5/8			Depth	Murfin Drig.										
Tbg. Size				Depth	City										
Tool				Depth	State										
Cement Left in Csg.	20 FT			Shoe Joint	20 FT		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line				Displace	13 BBL		Cement Amount Ordered								
						150 Com 3%									
						CC 2% gel									
						Common 150									
						Poz. Mix									
						Gel. 3									
						Calcium 7									
EQUIPMENT															
Pumptrk	20	No.	Cementor	Matt											
			Helper												
Bulktrk	3	No.	Driver	Matt											
			Driver												
Bulktrk	pa	No.	Driver	Doug											
			Driver												
JOB SERVICES & REMARKS															
Remarks:															
Rat Hole															
Mouse Hole															
Centralizers															
Baskets															
D/V or Port Collar															
Cement did															
Create of															
Frank															
You															
FLOAT EQUIPMENT															
Guide Shoe															
Centralizer															
Baskets															
AFU Inserts															
Float Shoe															
Latch Down															
Pumptrk Charge															
Surface															
Mileage															
23															
Tax															
Discount															
Total Charge															
Signature															
AG aul															

accy
Prd-MG



QUALITY OILWELL CEMENTING, INC.
PO Box 32 - 740 West Wichita Ave, Russell KS 67665
Phone: 785-324-1041 fax: 785-483-1087
Email: cementing@ruraltel.net

Date: 7/11/2014
Invoice # 87

P.O.#:
Due Date: 8/10/2014
Division: Russell

Invoice

Contact:
Murfin Drilling Company
Address/Job Location:
Murfin Drilling Company
P.O. Box 288
Russell Ks 67665

USED FOR _____

**OPERATOR PAY MDC
LEASE: _____**

APPROVED _____

Reference:
LITTLER LLC B 1-32

Description of Work:
PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	Yes				
Common-Class A	150	\$ 2,514.71	Yes				
POZ Mix-Standard	100	\$ 704.12	Yes				
Bulk Truck Matl-Material Service Charge	259	\$ 578.94	Yes				
Pump Truck Mileage-Job to Nearest Camp	23	\$ 256.54	Yes				
Premium Gel (Bentonite)	9	\$ 163.76	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	23	\$ 150.12	Yes				
Flo Seal	62	\$ 138.59	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$ 5,527.32
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (829.10)
<hr/>		
	SubTotal for Taxable Items:	\$ 4,698.23
	SubTotal for Non-Taxable Items:	\$ -
<hr/>		
	Total:	\$ 4,698.22
	Tax:	\$ 288.94
<hr/>		
	Amount Due:	\$ 4,987.16
	Applied Payments:	
	Balance Due:	\$ 4,987.16

6.15% Rush County Sales Tax

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
This does not include any applicable taxes unless it is listed.
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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. 087

Date	7-11-14	Sec.	32	Twp.	16	Range	19	County	Rush	State	Ks	On Location		Finish	10:30 AM
------	---------	------	----	------	----	-------	----	--------	------	-------	----	-------------	--	--------	----------

Lease **Littler LLC "B"** Location **Liebenshal, Ks - ~~02400~~ 15 to E Rd**

Well No. **1-32** Owner **W. to 180 Rd, 15, 1/2 W, S into**
To Quality Oilwell Cementing, Inc.

Contractor **Murfin 16** You are hereby requested to rent cementing equipment and furnish
Type Job **Plug** cementer and helper to assist owner or contractor to do work as listed.

Hole Size **7 7/8"** T.D. **3910'** Charge To **Murfin Drilling**

Csg. Depth Street
Tbg. Size **4 1/2" D.P.** Depth **3812'** City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint Cement Amount Ordered **250 60/40 4% Gel 1/4 # flo-seal**

Meas Line Displace **H2O / mud**

EQUIPMENT

Pumptrk	17	No.	Cementer	o	Common	150
			Helper	Billy	Poz. Mix	100
Bulktrk	9	No.	Driver	Chad	Gel.	9
			Driver	Rick	Calcium	

JOB SERVICES & REMARKS

Remarks:	Salt
Rat Hole	Flowseal 62H
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
3812' 50 SX	Handling 259
1320' - 50 SX	Mileage

FLOAT EQUIPMENT

510' - 40 SX	Guide Shoe
240' - 40 SX	Centralizer
60' - 20 SX	Baskets
Rathole - 30 SX	AFU Inserts
Mousehole 20 SX	Float Shoe
Cement did Circulate	Latch Down

Pumptrk Charge **Pl.**
Mileage **58 Pl. 23**

X Signature **Ag Littler**

Tax	
Discount	
Total Charge	

Littler LLC 'B' #1-32
 Daily Drilling Report
 Page Two

- 7/10/14 Depth 3836'. Cut 20'. DT: None. CT: 23hrs. Dev.: None. **DST #3 3769-3826' (Arb):** 30-60-30-60. IF: ¼" blw. FF: surf blw died in 7mins. Rec.: 32'M. HP: 1890-1834. FP: 31/35, 39/40. SIP: 524-352. BHT: 110°. **Arb:** dol, fn-med xln, very cherty, pr interxln por, NSFO, sl-fr odor. **DST #4 3824-3836' (Arb):** 30-60-30-60. IF: wk surf blw died in 12 mins. FF: no blw. Rec.: 5'M. HP: 1901-1826. FP: 18/18, 21/21. SIP: 30/23. BHT: 113°.
- 7/11/14 RTD: 3910'. Cut 74'. DT: None. CT: 20½ hrs. Dev.: 1¼° 3910'. HC @ 6:30PM 7/10. Pioneer logged 9:30PM 7/10 – 5:00AM 7/11. LTD: 3913'. To plug
- 7/12/14 RTD: 3910'. CT: 7½ hrs. Quality plugged, 7:00AM – 10:30AM 7/11, as follows using, 60/40Poz, 4%Gel, ¼# Floseal, 50sxs @ 3812', 50sxs @ 1320', 40sxs @ 510', 40sxs @ 240', 40sxs @ 60', 30sxs Rh, 20sxs MH. Orders: Eric MacLaren KCC. RR @ 2:30PM 7/11. FINAL REPORT

MDCI Littler LLC 'B' #1-32 335' FNL 2305' FEL Sec. 32-T16S-R19W 2064' KB							Castle Resources Littler #1 660FNL 1980FEL Sec. 32-T16S-R19W 2064' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1304	+755	Flat	1302	+757	+2	1309	+755
B/Anhydrite	1342	+722	+2	1340	+724	+4	1344	+720
Topeka	3114	-1050	+2	3108	-1044	+8	3116	-1052
Heebner	3396	-1332	+8	3396	-1332	+8	3404	-1340
Toronto	3416	-1352	+8	3414	-1350	+10	3424	-1360
Lansing	3442	-1378	+7	3441	-1377	+8	3449	-1385
Stark	3652	-1588	+6	3656	-1592	+2	3658	-1594
BKC	3698	-1634	+3	3698	-1634	+3	3701	-1637
Arbuckle	3812	-1748	+9	3805	-1741	+16	3821	-1757
RTD	3910						3850	
LTD				3913			3854	