

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1240719
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: _____

1240719

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Franklin 1-16
Doc ID	1240719

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 67206

ATTN: Rocky Milford

Franklin #1-16

16-4s-33w Rawlins,KS

Start Date: 2014.11.29 @ 11:45:00

End Date: 2014.11.29 @ 20:23:30

Job Ticket #: 60049 DST #: 1

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

Printed: 2014.12.05 @ 08:57:48

Murfin Drilling Co. Inc.

16-4s-33w Rawlins,KS

Franklin #1-16

DST # 1

Toronto - LKC " A "

2014.11.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
250 N. Water STE 300
Wichita KS 67206
ATTN: Rocky Milford

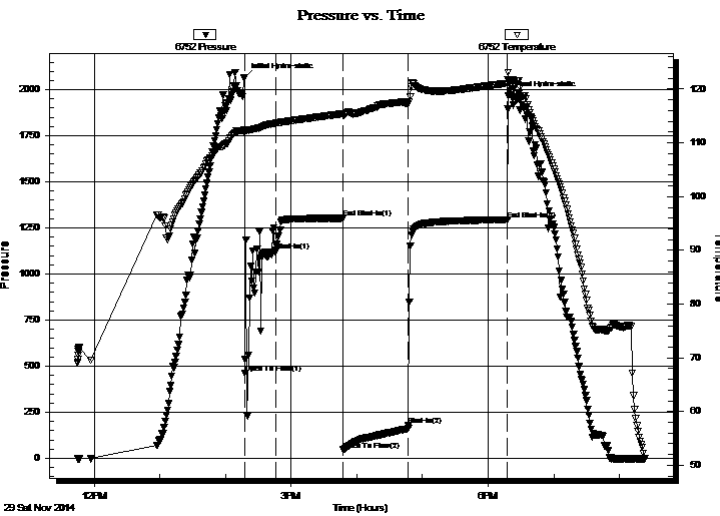
16-4s-33w Rawlins,KS
Franklin #1-16
Job Ticket: 60049 **DST#: 1**
Test Start: 2014.11.29 @ 11:45:00

GENERAL INFORMATION:

Formation: **Toronto - LKC " A "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:17:30
Time Test Ended: 20:23:30
Interval: **3983.00 ft (KB) To 4045.00 ft (KB) (TVD)**
Total Depth: 4045.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Nichols
Unit No: 78
Reference Elevations: 3079.00 ft (KB)
3074.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6752 Inside
Press@RunDepth: 177.41 psig @ 3984.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.11.29 End Date: 2014.11.29 Last Calib.: 2014.11.29
Start Time: 11:45:01 End Time: 20:23:30 Time On Btm: 2014.11.29 @ 14:17:20
Time Off Btm: 2014.11.29 @ 18:18:09

TEST COMMENT: 30 IF - Surface blow built to 2"
60 ISI - No return
60 FF - Surface blow started @ 2 mins built to BoB @ 42 mins
90 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2067.06	112.51	Initial Hydro-static
1	462.33	111.87	Open To Flow (1)
29	1128.29	113.67	Shut-In(1)
90	1302.19	115.42	End Shut-In(1)
90	45.32	115.19	Open To Flow (2)
150	177.41	117.34	Shut-In(2)
241	1294.36	121.09	End Shut-In(2)
241	1966.47	123.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	MCW - 20%M - 80%W	0.31
189.00	MCW - 3%M - 97%W	1.52
62.00	MCW - 25%M - 75%W	0.87

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

16-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67206

Franklin #1-16

Job Ticket: 60049

DST#: 1

ATTN: Rocky Milford

Test Start: 2014.11.29 @ 11:45:00

Tool Information

Drill Pipe:	Length: 3803.00 ft	Diameter: 3.80 inches	Volume: 53.35 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 54.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3983.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	89.00 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			3957.00	
Shut In Tool	5.00			3962.00	
Hydraulic tool	5.00			3967.00	
Jars	5.00			3972.00	
Safety Joint	2.00			3974.00	
Packer	5.00			3979.00	27.00 Bottom Of Top Packer
Packer	4.00			3983.00	
Packer - Shale	0.00			3983.00	
Stubb	1.00			3984.00	
Recorder	0.00	6752	Inside	3984.00	
Recorder	0.00	8322	Outside	3984.00	
Perforations	24.00			4008.00	
Change Over Sub	1.00			4009.00	
Drill Pipe	32.00			4041.00	
Change Over Sub	1.00			4042.00	
Bullnose	3.00			4045.00	62.00 Bottom Packers & Anchor
Total Tool Length:	89.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

16-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67206

Franklin #1-16

Job Ticket: 60049

DST#: 1

ATTN: Rocky Milford

Test Start: 2014.11.29 @ 11:45:00

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:

24000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	MCW - 20%M - 80%W	0.310
189.00	MCW - 3%M - 97%W	1.522
62.00	MCW - 25%M - 75%W	0.870

Total Length: 314.00 ft Total Volume: 2.702 bbl

Num Fluid Samples: 0

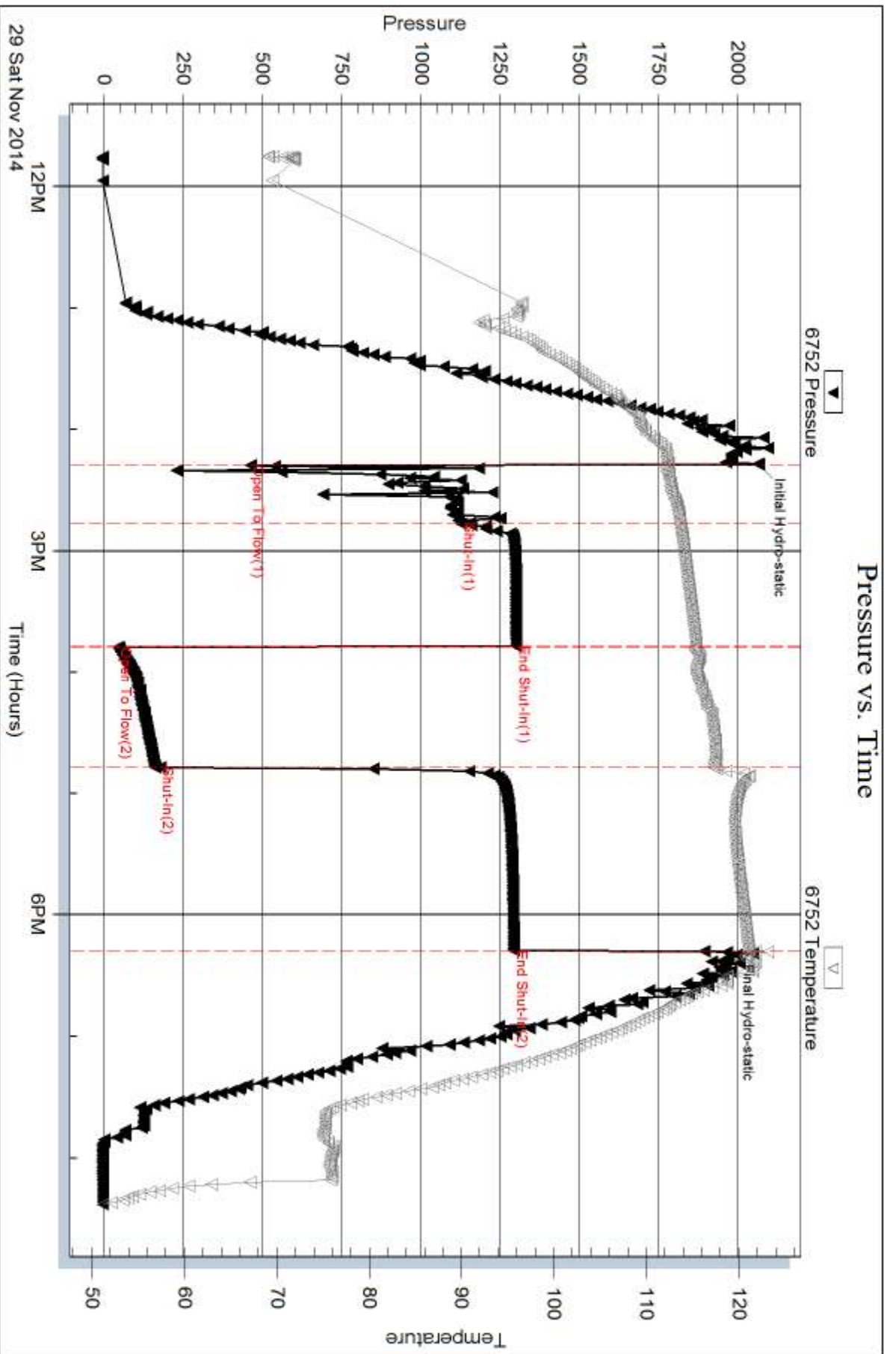
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .417 @ 51 DEG F

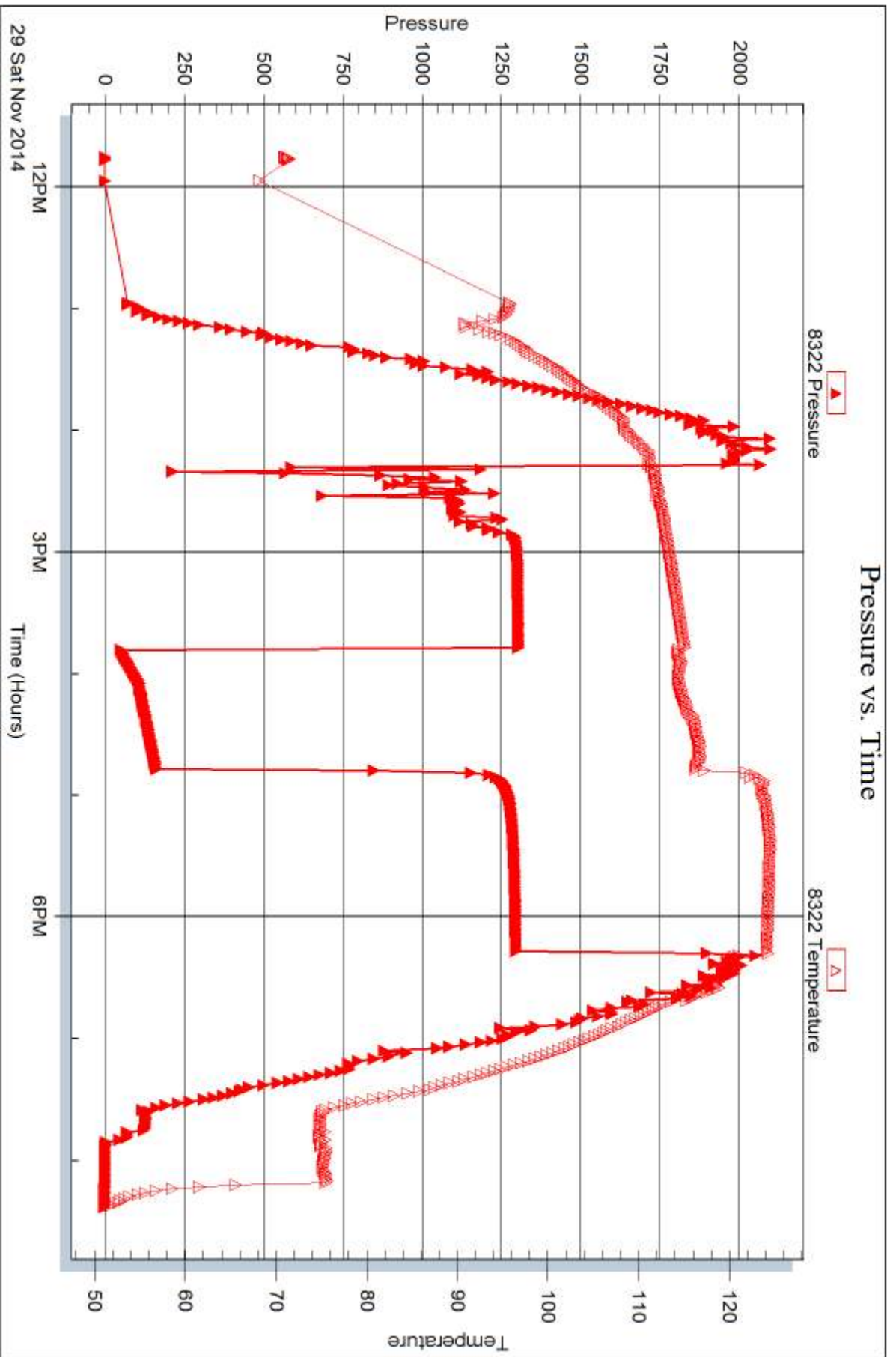


Serial #: 8322

Outside Murfin Drilling Co. Inc.

Franklin #4-16

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 60049

Printed: 2014, 12:05 @ 08:57:50



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water STE 300
Wichita KS 67206

ATTN: Rocky Milford

Franklin #1-16

16-4s-33w Rawlins,KS

Start Date: 2014.11.30 @ 04:59:00

End Date: 2014.11.30 @ 12:59:30

Job Ticket #: 60050 DST #: 2

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

Printed: 2014.12.05 @ 08:57:26

Murfin Drilling Co. Inc.
16-4s-33w Rawlins,KS
Franklin #1-16
DST # 2
LKC " B - D "
2014.11.30



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
 250 N. Water STE 300
 Wichita KS 67206
 ATTN: Rocky Milford

16-4s-33w Rawlins,KS
Franklin #1-16
 Job Ticket: 60050 **DST#: 2**
 Test Start: 2014.11.30 @ 04:59:00

GENERAL INFORMATION:

Formation: **LKC " B - D "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:47:10
 Time Test Ended: 12:59:30
 Interval: **4035.00 ft (KB) To 4085.00 ft (KB) (TVD)**
 Total Depth: 4085.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Nichols
 Unit No: 78
 Reference Elevations: 3079.00 ft (KB)
 3074.00 ft (CF)
 KB to GR/CF: 5.00 ft

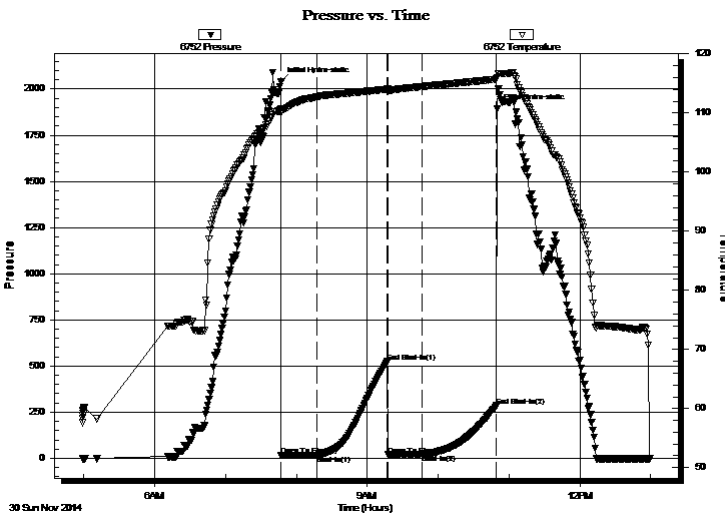
Serial #: 6752

Inside

Press@RunDepth: 20.51 psig @ 4036.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.30 End Date: 2014.11.30 Last Calib.: 2014.11.30
 Start Time: 04:59:01 End Time: 12:59:30 Time On Btm: 2014.11.30 @ 07:47:00
 Time Off Btm: 2014.11.30 @ 10:50:00

TEST COMMENT: 30 IF - 1/2" blow built to 1 1/4" (in diesel)
 60 ISI - No return
 30 FF - No blow
 60 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2041.46	110.64	Initial Hydro-static
1	15.05	110.10	Open To Flow (1)
30	18.24	112.70	Shut-In(1)
90	523.65	114.03	End Shut-In(1)
91	19.21	113.90	Open To Flow (2)
120	20.51	114.49	Shut-In(2)
183	285.00	115.74	End Shut-In(2)
183	1891.70	116.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Oil spots in tool	0.00
3.00	Mud - 100%M	0.01

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
250 N. Water STE 300
Wichita KS 67206
ATTN: Rocky Milford

16-4s-33w Rawlins, KS
Franklin #1-16
Job Ticket: 60050 **DST#: 2**
Test Start: 2014.11.30 @ 04:59:00

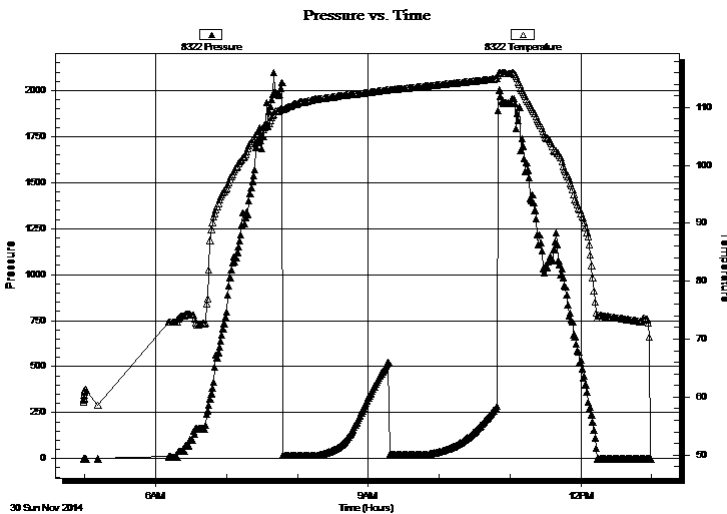
GENERAL INFORMATION:

Formation: **LKC " B - D "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:47:10
Time Test Ended: 12:59:30
Interval: **4035.00 ft (KB) To 4085.00 ft (KB) (TVD)**
Total Depth: 4085.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Nichols
Unit No: 78
Reference Elevations: 3079.00 ft (KB)
3074.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 4036.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.11.30 End Date: 2014.11.30 Last Calib.: 2014.11.30
Start Time: 04:59:01 End Time: 12:59:30 Time On Btm:
Time Off Btm:

TEST COMMENT: 30 IF - 1/2" blow built to 1 1/4" (in diesel)
60 ISI - No return
30 FF - No blow
60 FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Oil spots in tool	0.00
3.00	Mud - 100%M	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.
250 N. Water STE 300
Wichita KS 67206
ATTN: Rocky Milford

16-4s-33w Rawlins,KS
Franklin #1-16
Job Ticket: 60050 **DST#: 2**
Test Start: 2014.11.30 @ 04:59:00

Tool Information

Drill Pipe:	Length: 3836.00 ft	Diameter: 3.80 inches	Volume: 53.81 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4035.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	77.00 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			4009.00	
Shut In Tool	5.00			4014.00	
Hydraulic tool	5.00			4019.00	
Jars	5.00			4024.00	
Safety Joint	2.00			4026.00	
Packer	5.00			4031.00	27.00 Bottom Of Top Packer
Packer	4.00			4035.00	
Stubb	1.00			4036.00	
Recorder	0.00	6752	Inside	4036.00	
Recorder	0.00	8322	Outside	4036.00	
Perforations	12.00			4048.00	
Change Over Sub	1.00			4049.00	
Drill Pipe	32.00			4081.00	
Change Over Sub	1.00			4082.00	
Bullnose	3.00			4085.00	50.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

16-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67206

Franklin #1-16

Job Ticket: 60050

DST#: 2

ATTN: Rocky Milford

Test Start: 2014.11.30 @ 04:59:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 3.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	Oil spots in tool	0.000
3.00	Mud - 100%M	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

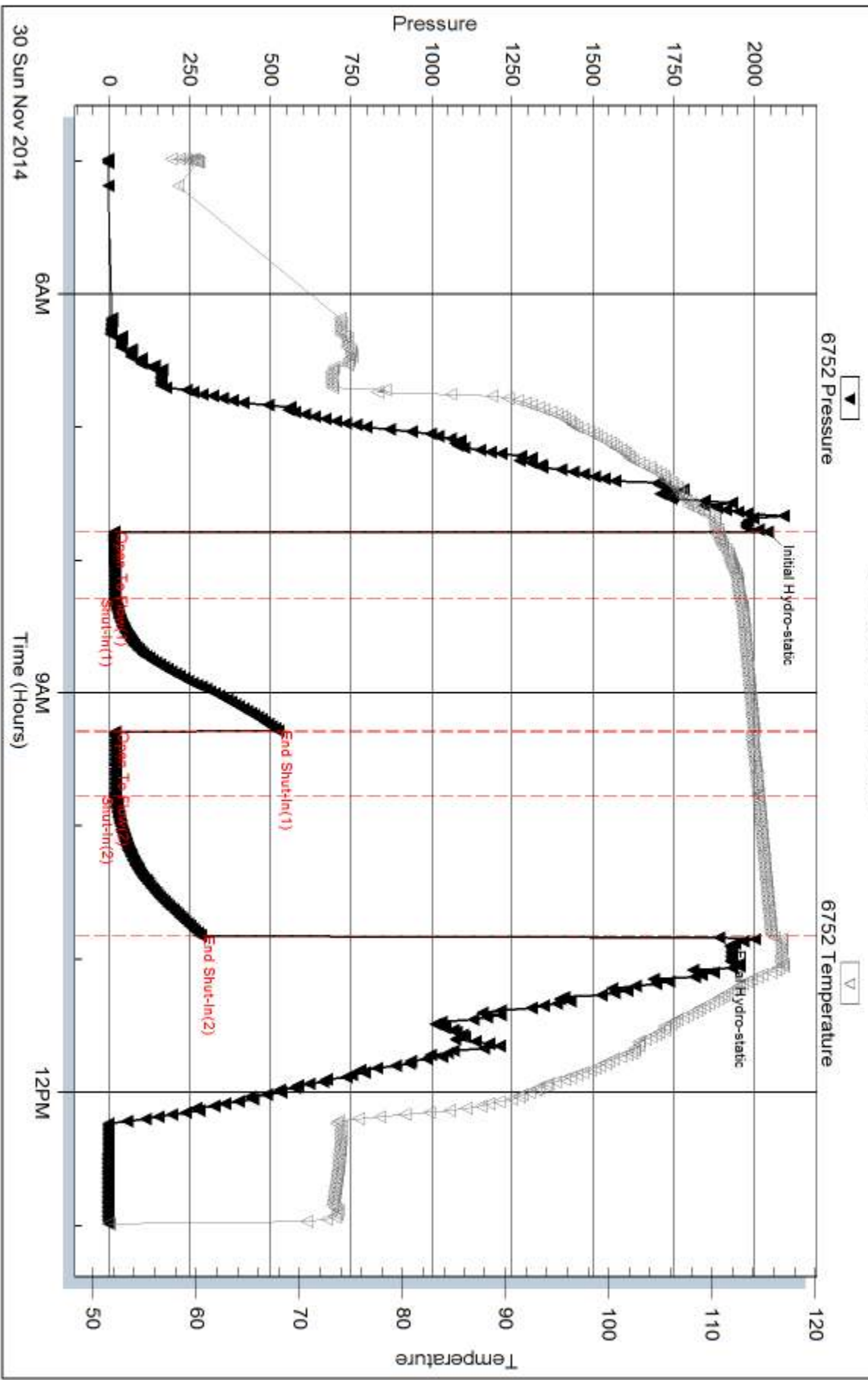
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

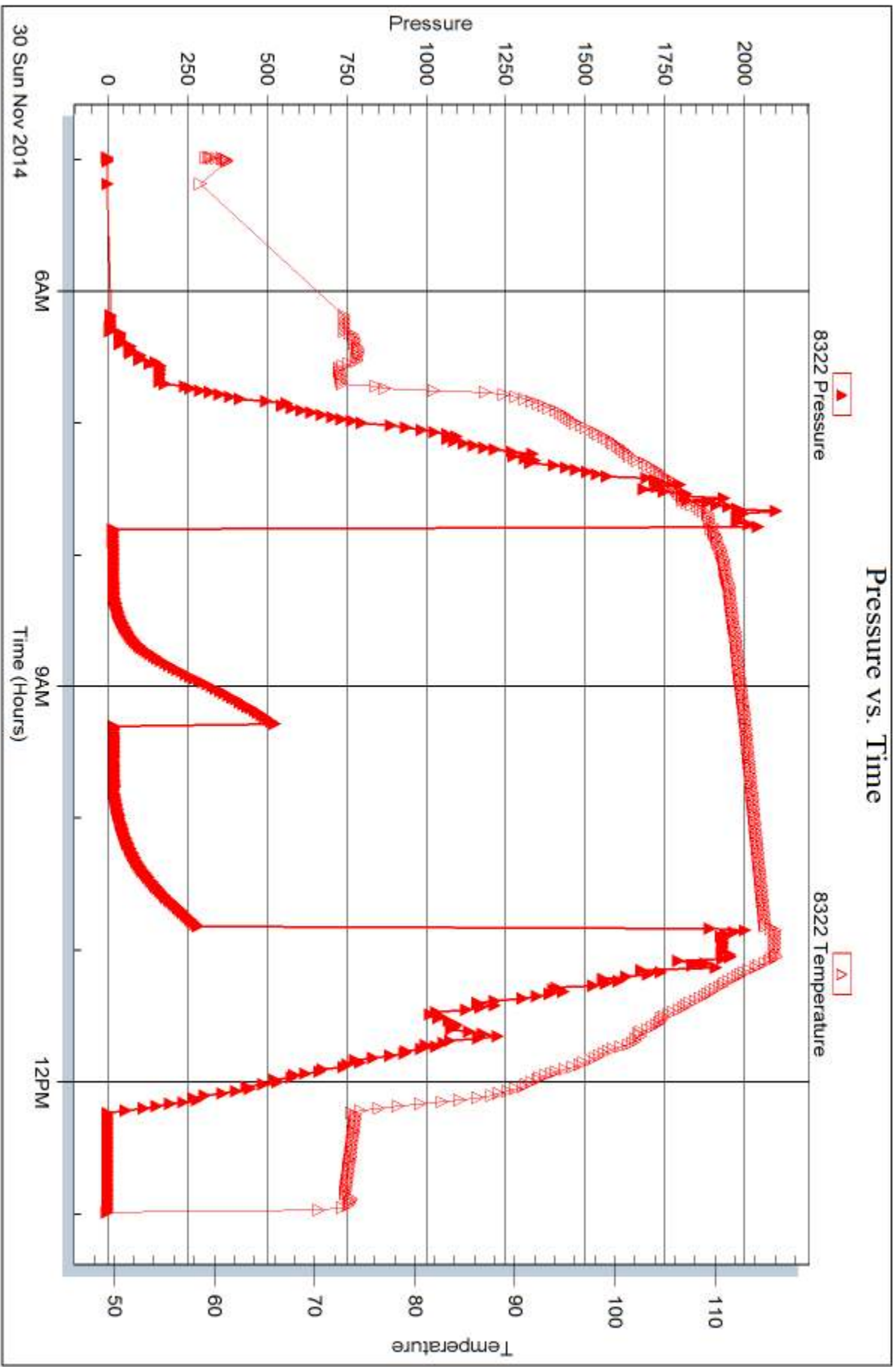


Serial #: 8322

Outside Murfin Drilling Co. Inc.

Franklin #1-16

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water STE 300
Wichita KS 67206

ATTN: Rocky Milford

Franklin #1-16

16-4s-33w Rawlins,KS

Start Date: 2014.11.30 @ 22:35:00

End Date: 2014.12.01 @ 06:49:39

Job Ticket #: DST #: 3

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

Printed: 2014.12.05 @ 08:55:55



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
250 N. Water STE 300
Wichita KS 67206
ATTN: Rocky Milford

16-4s-33w Rawlins,KS

Franklin #1-16

Job Ticket: **DST#: 3**
Test Start: 2014.11.30 @ 22:35:00

GENERAL INFORMATION:

Formation: **LKC "D prime - G "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:15:50
 Time Test Ended: 06:49:39
 Interval: **4082.00 ft (KB) To 4140.00 ft (KB) (TVD)**
 Total Depth: 4140.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Nichols
 Unit No: 78
 Reference Elevations: 3079.00 ft (KB)
 3074.00 ft (CF)
 KB to GR/CF: 5.00 ft

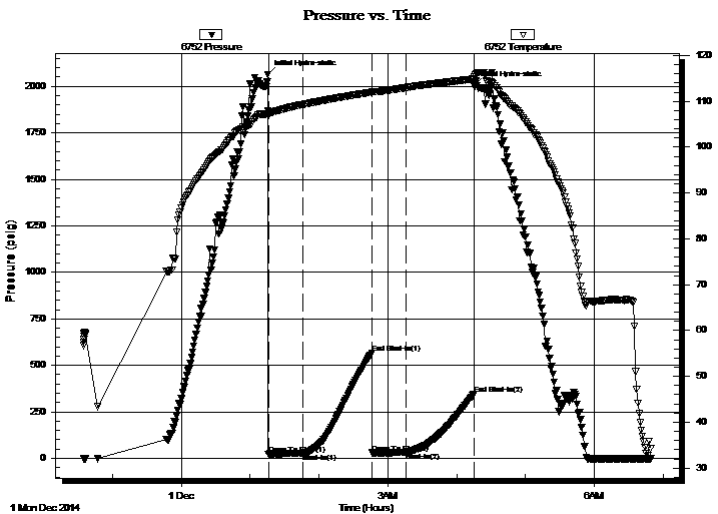
Serial #: 6752

Inside

Press@RunDepth: 30.25 psig @ 4083.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.30 End Date: 2014.12.01 Last Calib.: 2014.12.01
 Start Time: 22:35:01 End Time: 06:49:40 Time On Btm: 2014.12.01 @ 01:15:40
 Time Off Btm: 2014.12.01 @ 04:15:30

TEST COMMENT: 30 IF - 3/4" blow built to 1 1/2" (in diesel)
 60 ISI - No return
 30 FF - No blow
 60 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.21	107.94	Initial Hydro-static
1	23.19	107.36	Open To Flow (1)
31	26.60	109.30	Shut-In(1)
91	566.14	111.98	End Shut-In(1)
91	29.53	111.69	Open To Flow (2)
121	30.25	113.00	Shut-In(2)
180	346.15	114.87	End Shut-In(2)
180	2004.46	115.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud - 100%M	0.05

* 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.

16-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67206

Franklin #1-16

Job Ticket:

DST#: 3

ATTN: Rocky Milford

Test Start: 2014.11.30 @ 22:35:00

Tool Information

Drill Pipe:	Length: 3898.00 ft	Diameter: 3.80 inches	Volume: 54.68 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 55.60 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4082.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	58.00 ft				
Tool Length:	85.00 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			4056.00	
Shut In Tool	5.00			4061.00	
Hydraulic tool	5.00			4066.00	
Jars	5.00			4071.00	
Safety Joint	2.00			4073.00	
Packer	5.00			4078.00	27.00 Bottom Of Top Packer
Packer	4.00			4082.00	
Stubb	1.00			4083.00	
Recorder	0.00	6752	Inside	4083.00	
Recorder	0.00	8322	Outside	4083.00	
Perforations	20.00			4103.00	
Change Over Sub	1.00			4104.00	
Drill Pipe	32.00			4136.00	
Change Over Sub	1.00			4137.00	
Bullnose	3.00			4140.00	58.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

16-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67206

Franklin #1-16

Job Ticket: **DST#: 3**

ATTN: Rocky Milford

Test Start: 2014.11.30 @ 22:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 3.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud - 100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

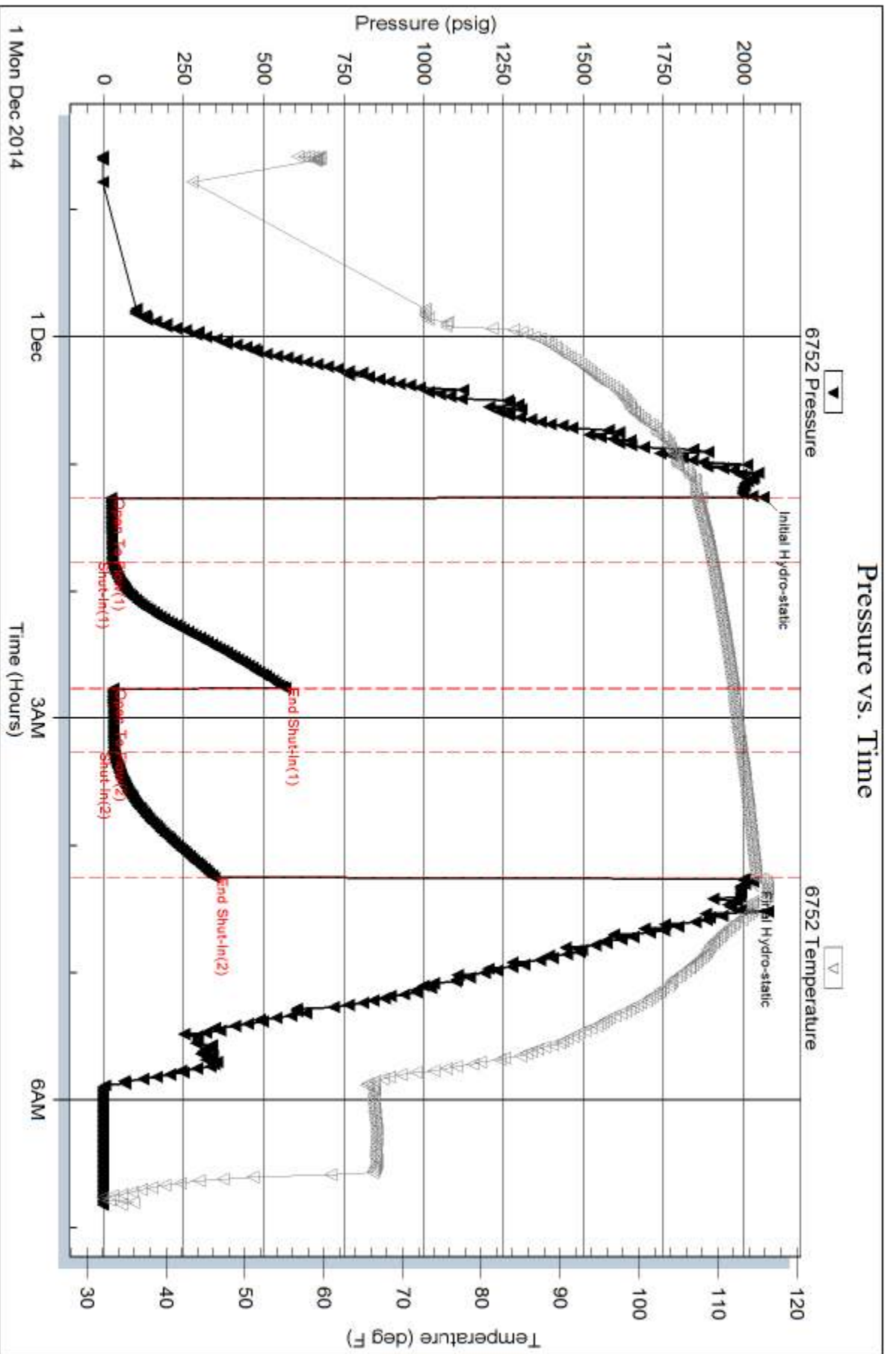
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

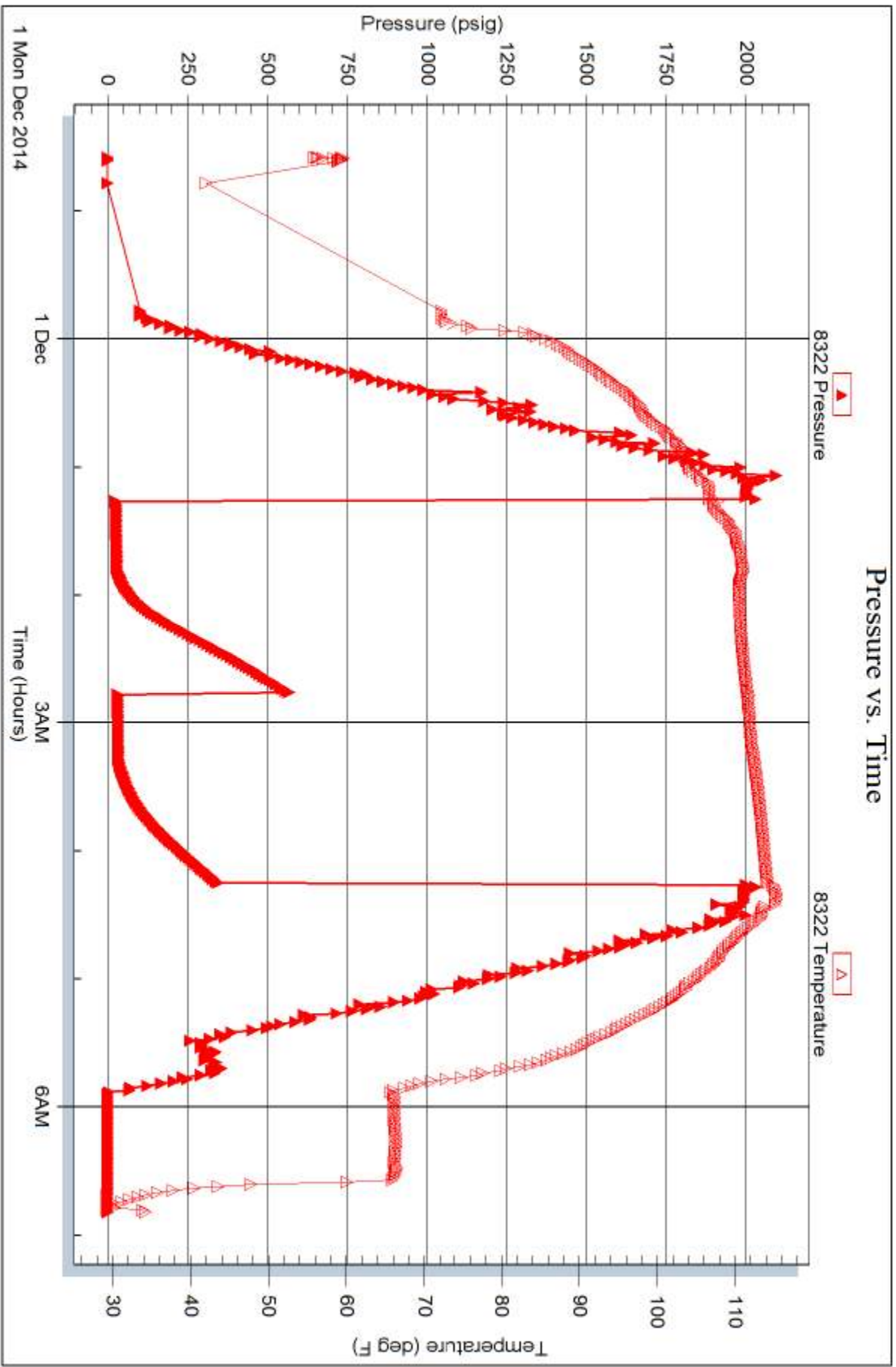


Serial #: 8322

Outside Murfin Drilling Co. Inc.

Franklin #1-16

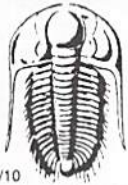
DST Test Number: 3



Trilobite Testing, Inc

Ref. No:

Printed: 2014, 12, 05 @ 08:55:56



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **60049**

4/10

Well Name & No. Franklin #1-16 Test No. 1 Date 11/29/14
 Company Martin Drilling Co. Inc. Elevation 3079 KB 3074 GL
 Address 250 N. Water STE 300 Wichita KS 67206
 Co. Rep / Geo. Rocky Miford Rig Martin #7
 Location: Sec. 16 Twp. 4S Rge. 33W Co. Rawlins State KS

Interval Tested 3983 - 4045 Zone Tested Toronto - LKC "A"
 Anchor Length 62' Drill Pipe Run 3803 Mud Wt. 9.2
 Top Packer Depth 3978 Drill Collars Run 187' Vis 59
 Bottom Packer Depth 3983 Wt. Pipe Run 0' WL 6.8
 Total Depth 4045 Chlorides 1400 ppm System LCM 2

Blow Description IF - Surface blow built to 2"
ISI - No return
FF - Surface blow started @ 2 mins built to BoB @ 42 mins
FSL - No return

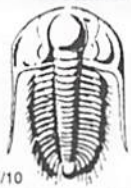
Rec	Feet of	%gas	%oil	%water	%mud
<u>63</u>	<u>MCW</u>		<u>80</u>	<u>20</u>	
<u>189</u>	<u>MCW</u>		<u>97</u>	<u>3</u>	
<u>62</u>	<u>MCW</u>				

Rec Total 314' BHT 1210 Gravity — API RW .417 @ 51 °F Chlorides 24,000 ppm
 (A) Initial Hydrostatic 2069 Test 1250 T-On Location 11:00
 (B) First Initial Flow 462 Jars 250 T-Started 11:45
 (C) First Final Flow 1128 Safety Joint 75 T-Open 14:17
 (D) Initial Shut-In 1302 Circ Sub NC T-Pulled 18:17
 (E) Second Initial Flow 45 Hourly Standby _____ T-Out 20:23
 (F) Second Final Flow 177 Mileage 73 RT 113.15 Comments _____
 (G) Final Shut-In 1294 Sampler _____
 (H) Final Hydrostatic 1966 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1938.15
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1938.15

Approved By _____ Our Representative Rocky Miford

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. 60050

Well Name & No. Franklin # 1-16 Test No. 2 Date 11/30/14
 Company Martin Drilling Co. Inc Elevation 3079 KB 3074 GL
 Address 250 N. Water STE 300 Wichita KS 67206
 Co. Rep / Geo. Rocky Milford Rig Martin # 7
 Location: Sec. 16 Twp. 45 Rge. 33W Co. Rawlins State KS

Interval Tested 4035 - 4095 Zone Tested LKC "B-D"
 Anchor Length 50' Drill Pipe Run 3836' Mud Wt. 9.3
 Top Packer Depth 4030 Drill Collars Run 187' Vis 51
 Bottom Packer Depth 4035 Wt. Pipe Run 0" WL 7.6
 Total Depth 4095 Chlorides 1700 ppm System LCM 3
 Blow Description IF - 1/2" blow built to 1 1/4" (in diesel)
ISI - No return
FF - No blow
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>3'</u>	<u>Mud</u>			<u>100</u>	
<u>0'</u>	<u>oil spots in tool</u>				

Rec Total 3' BHT 116" Gravity — API RW — @ — ° F Chlorides — ppm
 (A) Initial Hydrostatic 2041 Test 1250 T-On Location 04:15
 (B) First Initial Flow 15 Jars 250 T-Started 04:59
 (C) First Final Flow 18 Safety Joint 75 T-Open 07:46
 (D) Initial Shut-In 524 Circ Sub NC T-Pulled 10:46
 (E) Second Initial Flow 19 Hourly Standby _____ T-Out 12:59
 (F) Second Final Flow 21 Mileage 73 RT 113.15 Comments _____
 (G) Final Shut-In 285 Sampler _____
 (H) Final Hydrostatic 1892 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 1688.15
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1688.15

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62551

Well Name & No. Franklin # 1-16 Test No. 3 Date 11/30/14
 Company Martin Drilling Co. Inc. Elevation 3079 KB 3074 GL
 Address 250 N. Water STE 300 Wichita KS 67206
 Co. Rep / Geo. Rocky Milford Rig Martin # 7
 Location: Sec. 16 Twp. 4S Rge. 33W Co. Rawlins State KS

Interval Tested 4042 - 4140 Zone Tested LKC "D prime" - "G"
 Anchor Length 58' Drill Pipe Run 3894' Mud Wt. 9.2
 Top Packer Depth 4077 Drill Collars Run 187' Vis 59
 Bottom Packer Depth 4082 Wt. Pipe Run 0' WL 7.6
 Total Depth 4140 Chlorides 1700 ppm System LCM 3
 Blow Description IF - 3/4" built to 1 1/2" (in diesel)
ISI - No return
FF - No blow
FSE - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>Mad</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 10' BHT 115° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2062</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>22:00</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>22:35</u>
(C) First Final Flow <u>27</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>01:16</u>
(D) Initial Shut-In <u>566</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>04:16</u>
(E) Second Initial Flow <u>30</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>06:49</u>
(F) Second Final Flow <u>30</u>	<input checked="" type="checkbox"/> Mileage <u>73 KT</u> 113.15	Comments <u>Included tools @</u>
(G) Final Shut-In <u>346</u>	<input type="checkbox"/> Sampler <u>113.15</u>	<u>1:30 12/1/14</u>
(H) Final Hydrostatic <u>2004</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>—</u>	Total <u>1801.30</u>
	<input type="checkbox"/> Accessibility <u>—</u>	MP/DST Disc't <u>—</u>
	Sub Total <u>1801.30</u>	

Approved By _____ Our Representative [Signature]

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Robert L. Milford

PETROLEUM GEOLOGIST
Wichita, Kansas

GEOLOGISTS' REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR - **Murfin Drilling Company, Inc.**
LEASE - **Franklin #1-16**
LOC SPOT - **65 S & 70 W of E2 NENW**

ELEVATIONS
KB **3,079'**
GL **3,074'**

LOC FOOTAGE **755' FNL 2,240' FWL**

SEC. **16** TWPSP **4S** RNG **33W**

COUNTY **Rawlins** STATE **Kansas**

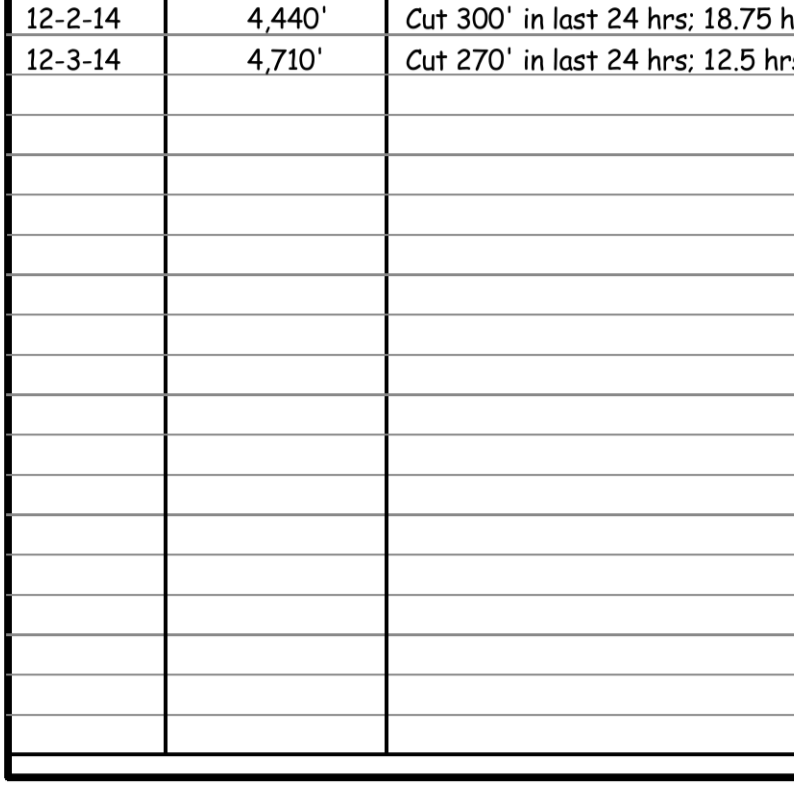
API **15-153-21082-00-00**

CONTRACTOR **Murfin Drilling Co., Inc.** RIG NO. **7**
DRILLING STARTED **11-29-2014** COMPLETED **12-2-2014**
MUD REPLACED **3,009** MUD TYPE **Chemical**
DRILLING TIME KEPT FROM **3:10** TO **RTD**
SAMPLES SAVED FROM **3:10** TO **RTD**
SAMPLES EXAMINED FROM **3:10** TO **RTD**
GEOLOGICAL SUPERVISION FROM **3:10** TO **RTD**

MEASUREMENTS
CASING RECORD
Conductor
Surface **B-5/8" @ 299'**
w/ 229 sockets cement
Production none

ELECTRICAL SURVES
Pioneer Wireline
Dual Induction Log
Dual Compensated
Porosity Log
Microresistivity Log
Borehole Compensated

FORMATION NAME	LOG TOP	LOG DATUM	SAMPLE TOP	SAMPLE DATUM
Stone Corral	2,799'	+280'	2,802'	+277'
Base Stone Corral	2,835'	+244'	2,838'	+241'
Topeka	3,815'	-736'	3,817'	-738'
Heebner	3,986'	-907'	3,988'	-909'
Lansing	4,022'	-943'	4,024'	-945'
B/KC	4,263'	-1184'	4,265'	-1186'
Pawnee	4,391'	-1312'	4,393'	-1314'
Cherokee	4,461'	-1382'	4,463'	-1384'
Mississippian	4,635'	-1556'	4,637'	-1558'
Total Depth	4,710'	-1631'	4,710'	-1631'



DATE	7:00 AM DEPTH	REMARKS
11-25-14	0'	Spud @ 4:00 pm. Plug down @ 12:30 am on 11-26-14. Dev. 0.75" @ 259'
11-26-14	259'	Cut 259' in last 24 hrs. Drilled out plug @ 8:30 am w/ PDC bit.
11-27-14	2,330'	Cut 2,071' in last 24 hrs; 22 hrs drlg. Lost circ @ 3675' (down 2 hrs). Bit trip @ 3700'
11-28-14	3,707'	Cut 1,377' in last 24 hrs; 22 hrs drlg.
11-29-14	4,045'	Cut 338' in last 24 hrs; 17.5 hrs drlg. DST #1 @ 4045', DST #2 @ 4085'
11-30-14	4,085'	Cut 40' in last 24 hrs; 2.5 hrs drlg. DST #3 @ 4140'
12-1-14	4,140'	Cut 55' in last 24 hrs; 3 hrs drlg.
12-2-14	4,440'	Cut 300' in last 24 hrs; 18.75 hrs drlg. RTD 4710' @ 9:10 pm
12-3-14	4,710'	Cut 270' in last 24 hrs; 12.5 hrs drlg. P&A

Remarks

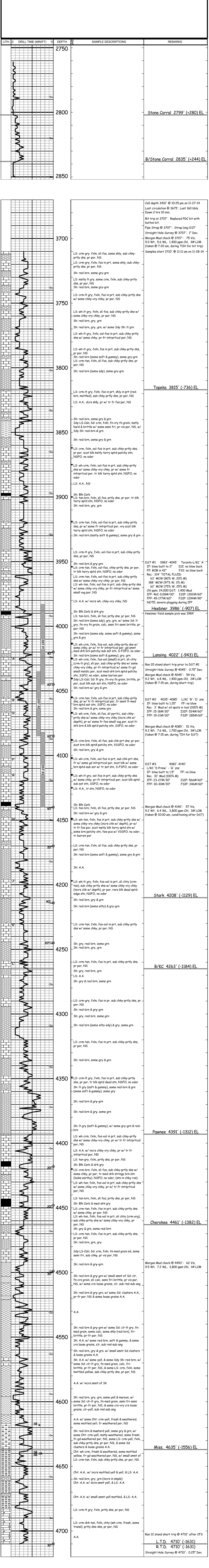
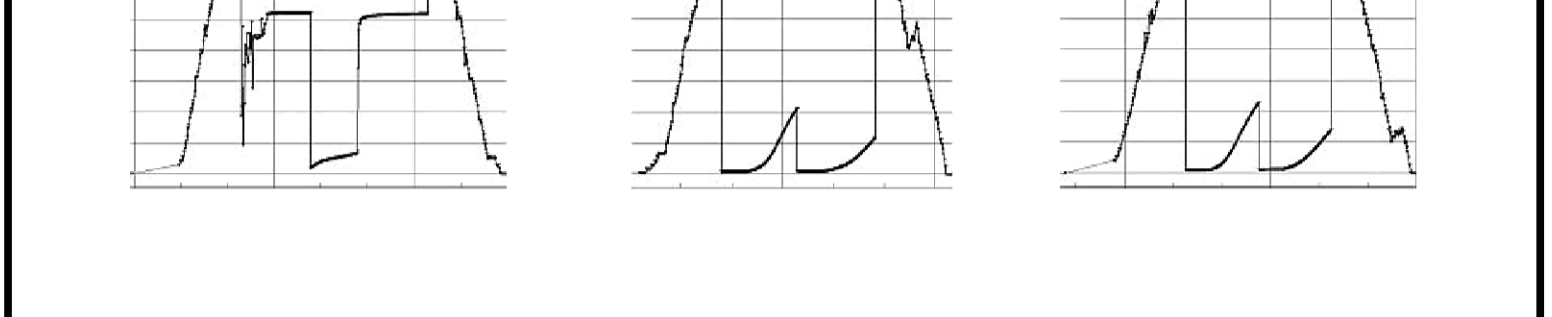
The electric log measurements correlate from 2' to 3' higher to the drilling measurements.

Formation tops and lithology on this report have been corrected to the electric log.

The drilling samples were deposited at the Kansas Geological Survey office in Wichita.

Respectfully submitted,

Robert L. Milford





PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

*Prod-MG
acct*

INVOICE

Invoice Number: 147393

Invoice Date: Nov 25, 2014

Page: 1

Federal Tax I.D.#: 20-8651475

Bill To:
Murfin Drig. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202

Customer ID	Field Ticket #	Payment Terms	
Murfin	64826	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Nov 25, 2014	12/25/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Franklin #1-16		
225.00	CEMENT MATERIALS	Class A Common	17.90	4,027.50
635.00	CEMENT MATERIALS	Chloride	1.10	698.50
236.25	CEMENT SERVICE	Cubic Feet Charge	2.48	585.90
490.05	CEMENT SERVICE	Ton Mileage Charge	2.75	1,347.64
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SUPERVISOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	OPERATOR ASSISTANT	Shawn Tatro		

Subtotal	8,991.29
Sales Tax	373.35
Total Invoice Amount	9,364.64
Payment/Credit Applied	
TOTAL	9,364.64

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 3,146.95

ONLY IF PAID ON OR BEFORE
Dec 25, 2014

OK JR

ALLIED OIL & GAS SERVICES, LLC 064826

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Oakley, KS
11-26-14

DATE <u>11-25-14</u>	SEC. <u>16</u>	TWP. <u>4N</u>	RANGE <u>33W2</u>	CALLED OUT	ON LOCATION <u>7:30 p.m.</u>	JOB START <u>12:00 a.m.</u>	JOB FINISH <u>12:30 a.m.</u>
LEASE <u>Franklin</u>	WELL# <u>1-16</u>	LOCATION <u>Oakley N to Rd K 1 1/2 E Sinto</u>	COUNTY <u>Rawlins</u>	STATE <u>KS</u>			
OLD OR <u>(NEW)</u> (Circle one)							

CONTRACTOR Murfin 7
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 260'
CASING SIZE 9 5/8 DEPTH 260'
TUBING SIZE _____ DEPTH _____
DRILL PIPE _____ DEPTH _____
TOOL _____ DEPTH _____
PRES. MAX _____ MINIMUM _____
MEAS. LINE _____ SHOE JOINT _____
CEMENT LEFT IN CSG. 1.5
PERFS. _____
DISPLACEMENT 15.5 bbl H₂O

EQUIPMENT
PUMP TRUCK # 120 CEMENTER Paul Beaver
HELPER Tyler Flipse / Juan 3 (703)
BULK TRUCK # 566/575 DRIVER Shawn Tatro
BULK TRUCK # _____ DRIVER _____

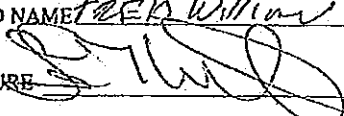
REMARKS:
Mix 225 sks Com 3' CC
Displace w/ water

Cement did circ
10 bbl to pit plug down @ 12:30 a.m.

Thank You!
Paul + Shawn

CHARGE TO: Murfin Drlg
STREET _____
CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME FRED WILLIAMS
SIGNATURE 

OWNER Same
CEMENT AMOUNT ORDERED 225 sks Com 3' CC

COMMON 225 sks @ 17.90 4027.50
POZMIX @ _____
GEL @ _____
CHLORIDE 635" @ 1.10 698.50
ASC @ _____

Materials Total @ _____ 4726.00
(16.5410/350)

HANDLING 236.25 @ 2.48 585.90
MILEAGE 10.82 hrs @ 45 m @ 2.75 297.75
TOTAL _____

SERVICE

DEPTH OF JOB 260'
PUMP TRUCK CHARGE 1517.25
EXTRA FOOTAGE @ _____
MILEAGE 45 @ 7.70 346.50
MANIFOLD sledge @ 275.00
MILE 45 @ 4.40 198.00

(1492.85/250) TOTAL 4465.29

PLUG & FLOAT EQUIPMENT

TOTAL _____

SALES TAX (If Any) _____
TOTAL CHARGES 8,991.29
DISCOUNT 3,146.95 (35%) IF PAID IN 30 DAYS
5,844.33 Net.



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

*acct
Prod-me*

INVOICE

Invoice Number: 147500
Invoice Date: Dec 3, 2014
Page: 1

Federal Tax I.D.#: 20-8651475

Bill To:
Murfin Drig. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202

Customer ID	Field Ticket #	Payment Terms	
Murfin	63799	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Dec 3, 2014	1/2/15

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Franklin #1-16		
255.00	CEMENT MATERIALS	60/40/4% Gel Blend	18.92	4,824.60
64.00	CEMENT MATERIALS	Flo Seal	2.97	190.08
273.86	CEMENT SERVICE	Cubic Feet Charge	2.48	679.17
528.01	CEMENT SERVICE	Ton Mileage Charge	2.75	1,452.03
1.00	CEMENT SERVICE	Plug to Abandon	2,483.50	2,483.50
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		
1.00	OPERATOR ASSISTANT	Wayne Messalle		

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 3,560.90 *✓ on 352*

ONLY IF PAID ON OR BEFORE
Jan 2, 2015

Subtotal	10,173.88
Sales Tax	803.74
Total Invoice Amount	10,977.62
Payment/Credit Applied	
TOTAL	10,977.62

OK JR

- 3560.90
7416.72

ALLIED OIL & GAS SERVICES, LLC 063799

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

Colby, TX

DATE <i>1/31/14</i>	SEC. <i>16</i>	TWP. <i>4</i>	RANGE <i>33</i>	CALLED OUT	ON LOCATION	JOB START <i>2:00p</i>	JOB FINISH <i>4:00p</i>
LEASE <i>Franklin</i>	WELL# <i>1-16</i>	LOCATION <i>Colby N77 RD W16E</i>			COUNTY <i>DeWitt</i>	STATE <i>TX</i>	
OLD OR NEW (Circle one)							

CONTRACTOR *Monte N7*

TYPE OF JOB *PTA*

HOLE SIZE *2 7/8* T.D.

CASING SIZE *8 7/8* DEPTH *260'*

TUBING SIZE DEPTH

DRILL PIPE *1 1/2* DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER *Same*

CEMENT AMOUNT ORDERED *255 60/40 40709.2*
114 PLS

ALV 10/10 490

COMMON *255 SK* @ *1093* *4829.40*

POZMIX @

GEL @

CHLORIDE @

ASC @

EQUIPMENT

PUMP TRUCK # <i>425-081</i>	CEMENTER <i>Alan Ryan</i>
BULK TRUCK # <i>810</i>	HELPER <i>Howe Ryan</i>
BULK TRUCK #	DRIVER <i>Wayne, Massalle</i>
BULK TRUCK #	DRIVER

F10 Seal 64/10 @ 2.27 190.08

Material Total 5014.68

(1755.14 / 35%)

HANDLING *273 266* @ *2.42* *672.14*

MILEAGE *22 700 / 24 11.436* *70 N* *1452.00*

TOTAL

REMARKS:

50 SK @ 2850' --

100 @ 2021'

50 @ 209'

20 @ 210'

30' A-Hole

20' M-Hole

SERVICE

DEPTH OF JOB *2850'*

PUMP TRUCK CHARGE *2483.50*

EXTRA FOOTAGE @

MILEAGE *45* @ *7.00* *315.00*

MANIFOLD *45* @ *4.00* *180.00*

TOTAL

(1005.76 / 35%) TOTAL *5159.33*

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: *Monte N7*

STREET _____

CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *Fred Williams*

SIGNATURE *[Signature]*

SALES TAX (If Any) _____

TOTAL CHARGES *10,174.01*

DISCOUNT *3,560.90 (35%)* IF PAID IN 30 DAYS

6,613.10 Net.

Franklin #1-16
 Daily Drilling Report
 Page Two

- 12/1/14 Depth 4140'. Cut 55'. DT: None. CT: 21 hrs. Dev.: None. **LKC D Prime**: pr por, scat brn-blk sptd-patchy stn, VSSFO, no odor. **LKC F**: fr w/ some gd intrprtcal por, scat blk w/ some brn sptd-sub sat w/ tr sat stn, S-FSFO, no odor. **LKC G**: pr fr intrprtcal por, scat blk sptd-sub sat stn, SSFO, no odor. **DST #3 4082-4140 (LKC D Prime-G)**: 30-60-30-60. IF: blow built to 1½". FF: no blow. Rec. 10' Mud (100% M). HP: 2062-2004. FP: 23/27, 30/30. SIP: 566-346. BHT: 115°.
- 12/2/14 Depth 4440'. Cut 300'. DT: None. CT: 5¼ hrs. Dev.: None. **LKC H**: pr w/ tr fr fos por, scat mstly blk tarry sptd stn w/ some brn patchy stn, few pcs w/ VSSFO, no odor, tr barren por. **LKC J**: pr por, rare blk dead sptd-edge stn, NSFO, no odor. **Upper & Lower Pawnee**: pr w/ tr fr intrprtcal por, NS.
- 12/3/14 RTD: 4710'. Cut 270'. DT: None. CT: 11¼ hrs. Dev.: ¼° @ 4710. HC @ 9:00PM 12/2. Pioneer started logging @ 3:00AM 12/3. LTD: 4710'.
- 12/4/14 RTD: 4710'. CT: 13hrs. Pioneer finished logging @ 8:30AM 12/3. Allied plugged hole, 12:45PM – 4:00PM 12/3, as follows using 60/40Poz, 4%Gel, ¼#Flo seal, 50sxs @ 2850', 100sxs @2017', 50sxs @ 309', 10sxs @ 40', 30sxs RH, 15sxs MH. Orders: Pat Staab, KCC Hays. RR @ 8:00PM 12/3. FINAL REPORT

Franklin #1-16 725' FNL 2240'FWL Sec. 16-4S-33W 3079' KB							Morgan #1-17 660' FSL 2310'FEL Sec. 17-4S-33W 3049' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2802	+277	-8	2800	+279	-6	2764	+285
B/Anhydrite	2838	+241	-8	2835	+244	-5	2800	+249
Topeka	3814	-735	-3	3815	-736	-4	3781	-732
Heebner	3984	-905	-3	3985	-906	-4	3951	-902
Lansing	4024	-945	-4	4022	-943	-2	3990	-941
Stark	4211	-1132	-1	4208	-1129	+2	4180	-1131
BKC	4260	-1181	Flat	4263	-1184	-3	4230	-1181
Pawnee	4393	-1314	-2	4392	-1313	-1	4361	-1312
Cherokee	4466	-1387	-3	4461	-1382	+2	4433	-1384
Mississippi	4638	-1559	+10	4614	-1535	+34	4618	-1569
RTD	4710	-1631					4686	
LTD				4710			4690	