



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1209703
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: _____

1209703

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Hobbs 3-2
Doc ID	1209703

All Electric Logs Run

Dual Induction
Dual Compensated
Microresistivity
Borehole Compensated



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
STE 300
Wichita Ks 67202-1216

ATTN: Scott Robinson, Chuc

Hobbs #3-2

2-11s-24w Trego

Start Date: 2014.04.13 @ 11:15:29

End Date: 2014.04.13 @ 19:39:53

Job Ticket #: 54099 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.04.17 @ 16:01:47



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N. Water
 STE 300
 Wichita Ks 67202-1216
 ATTN: Scott Robinson, Chuc

2-11s-24w Trego

Hobbs #3-2

Job Ticket: 54099

DST#: 1

Test Start: 2014.04.13 @ 11:15:29

GENERAL INFORMATION:

Formation: **LKC B-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:55:09
 Time Test Ended: 19:39:53
 Interval: **3698.00 ft (KB) To 3735.00 ft (KB) (TVD)**
 Total Depth: 3735.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 70
 Reference Elevations: 2311.00 ft (KB)
 2306.00 ft (CF)
 KB to GR/CF: 5.00 ft

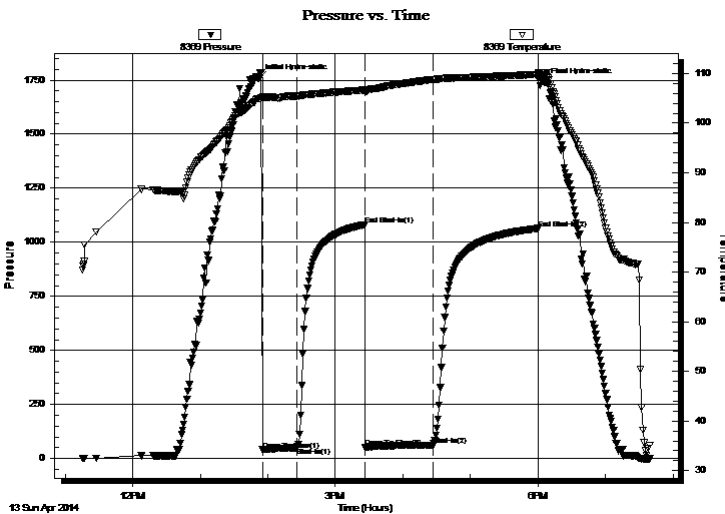
Serial #: 8369

Inside

Press@RunDepth: 62.96 psig @ 3703.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.13 End Date: 2014.04.13 Last Calib.: 2014.04.13
 Start Time: 11:15:29 End Time: 19:39:53 Time On Btm: 2014.04.13 @ 13:52:09
 Time Off Btm: 2014.04.13 @ 18:05:23

TEST COMMENT: 30-IFP-w k bl thru-out
 60-ISIP-no bl bk
 60--FFP-surface bl
 90-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1756.84	104.96	Initial Hydro-static
3	40.77	104.96	Open To Flow (1)
34	50.98	105.44	Shut-In(1)
94	1081.11	106.67	End Shut-In(1)
94	52.43	106.28	Open To Flow (2)
155	62.96	108.81	Shut-In(2)
248	1064.03	109.82	End Shut-In(2)
254	1739.41	109.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	SOCM 2%O98%M	0.39

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

2-11s-24w Trego

250 N. Water
STE 300
Wichita Ks 67202-1216
ATTN: Scott Robinson, Chuc

Hobbs #3-2

Job Ticket: 54099

DST#: 1

Test Start: 2014.04.13 @ 11:15:29

Tool Information

Drill Pipe:	Length: 3549.00 ft	Diameter: 3.80 inches	Volume: 49.78 bbl	Tool Weight: 2200.00 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: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 50.52 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3698.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	66.00 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			3670.00	
Shut In Tool	5.00			3675.00	
Hydraulic tool	5.00			3680.00	
Jars	5.00			3685.00	
Safety Joint	3.00			3688.00	
Packer	5.00			3693.00	29.00 Bottom Of Top Packer
Packer	5.00			3698.00	
Stubb	1.00			3699.00	
Perforations	4.00			3703.00	
Recorder	0.00	8369	Inside	3703.00	
Recorder	0.00	8700	Outside	3703.00	
Perforations	29.00			3732.00	
Bullnose	3.00			3735.00	37.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

2-11s-24w Trego

250 N. Water
STE 300
Wichita Ks 67202-1216
ATTN: Scott Robinson, Chuc

Hobbs #3-2

Job Ticket: 54099

DST#: 1

Test Start: 2014.04.13 @ 11:15:29

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 5.94 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	SOCM 2% O98%M	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

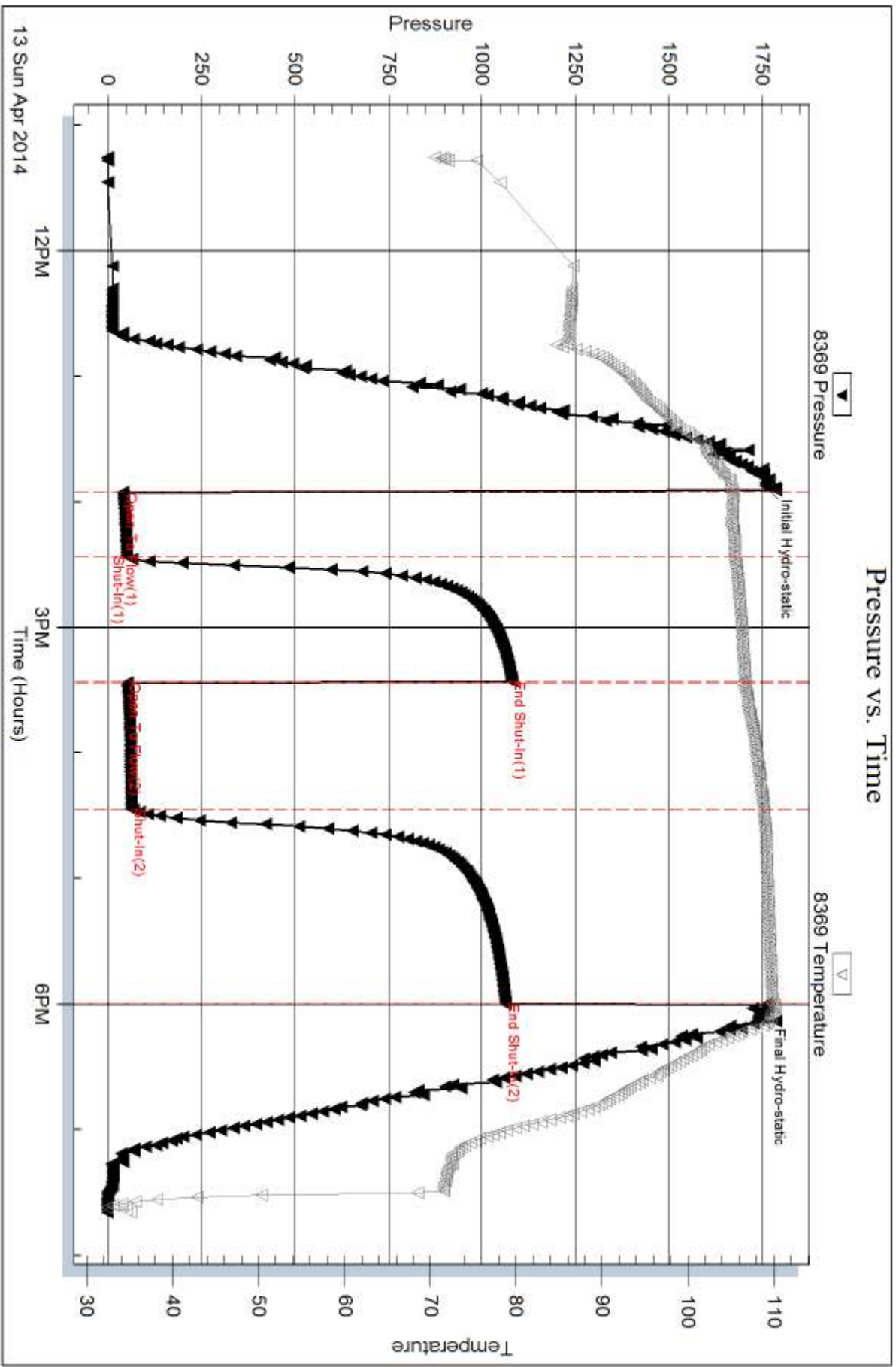
Serial #: 8369

Inside

Murfin Drilling Co Inc

Hobbs #3-2

DST Test Number: 1

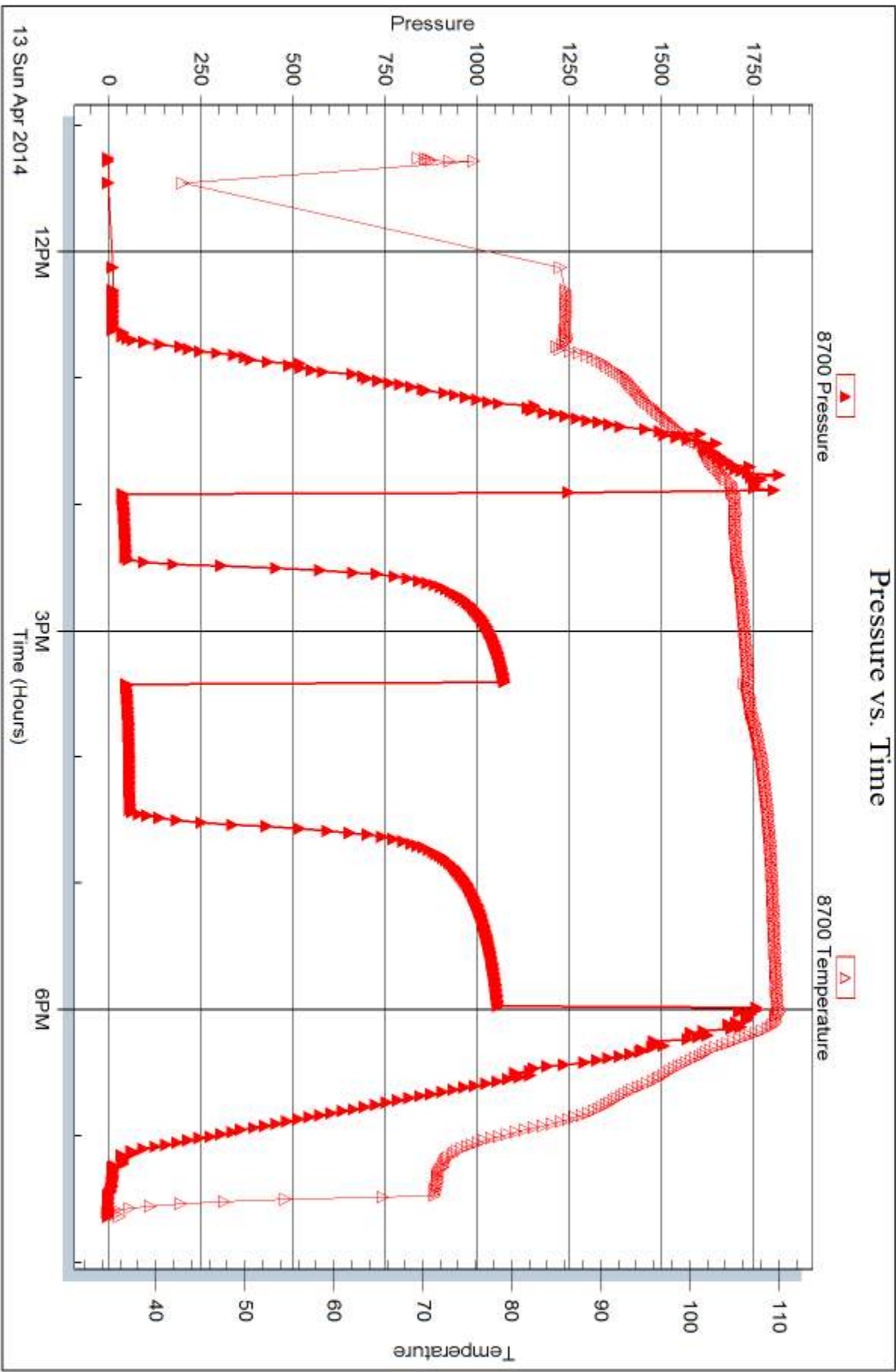


Serial #: 8700

Outside Murfin Drilling Co Inc

Hobbs #3-2

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
STE 300
Wichita Ks 67202-1216

ATTN: Scott Robinson, Chuc

Hobbs #3-2

2-11s-24w Trego

Start Date: 2014.04.14 @ 16:15:18

End Date: 2014.04.14 @ 23:11:42

Job Ticket #: 54100 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.04.17 @ 16:01:24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N. Water
STE 300
Wichita Ks 67202-1216
ATTN: Scott Robinson, Chuc

2-11s-24w Trego

Hobbs #3-2

Job Ticket: 54100

DST#: 2

Test Start: 2014.04.14 @ 16:15:18

GENERAL INFORMATION:

Formation: **LKC E-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:23:28
 Time Test Ended: 23:11:42
 Interval: **3738.00 ft (KB) To 3774.00 ft (KB) (TVD)**
 Total Depth: 3774.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 70
 Reference Elevations: 2311.00 ft (KB)
 2306.00 ft (CF)
 KB to GR/CF: 5.00 ft

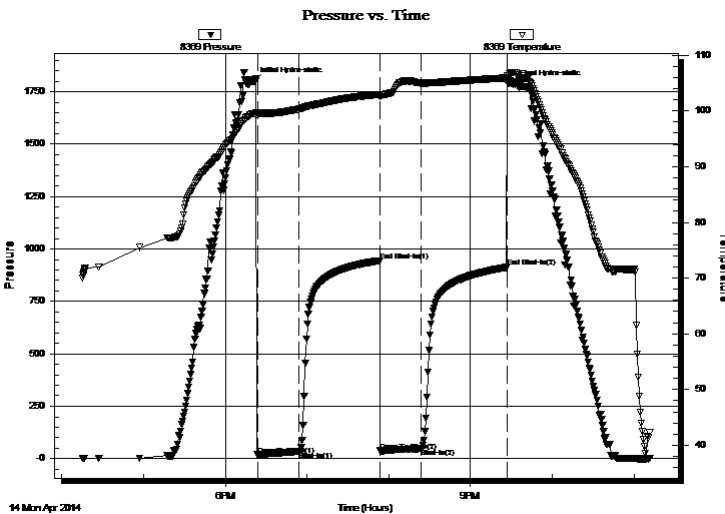
Serial #: 8369

Inside

Press@RunDepth: 48.34 psig @ 3742.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.14 End Date: 2014.04.14 Last Calib.: 2014.04.14
 Start Time: 16:15:18 End Time: 23:11:42 Time On Btm: 2014.04.14 @ 18:20:58
 Time Off Btm: 2014.04.14 @ 21:31:27

TEST COMMENT: 30-IFP-w k bl thru-out 1/4" bl
 60-ISIP-no bl bk
 30-FFP-no bl
 60-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1799.45	99.50	Initial Hydro-static
3	18.67	99.30	Open To Flow (1)
34	34.63	100.31	Shut-In(1)
93	944.19	102.98	End Shut-In(1)
93	37.34	102.51	Open To Flow (2)
123	48.34	104.97	Shut-In(2)
186	912.41	105.90	End Shut-In(2)
191	1785.37	106.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud	0.30

* 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

2-11s-24w Trego

250 N. Water
STE 300
Wichita Ks 67202-1216
ATTN: Scott Robinson, Chuc

Hobbs #3-2

Job Ticket: 54100

DST#: 2

Test Start: 2014.04.14 @ 16:15:18

Tool Information

Drill Pipe:	Length: 3643.00 ft	Diameter: 3.80 inches	Volume: 51.10 bbl	Tool Weight: 2200.00 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: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3738.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	65.00 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			3710.00	
Shut In Tool	5.00			3715.00	
Hydraulic tool	5.00			3720.00	
Jars	5.00			3725.00	
Safety Joint	3.00			3728.00	
Packer	5.00			3733.00	29.00 Bottom Of Top Packer
Packer	5.00			3738.00	
Stubb	1.00			3739.00	
Perforations	3.00			3742.00	
Recorder	0.00	8369	Inside	3742.00	
Recorder	0.00	8700	Outside	3742.00	
Perforations	29.00			3771.00	
Bullnose	3.00			3774.00	36.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

2-11s-24w Trego

250 N. Water
STE 300
Wichita Ks 67202-1216
ATTN: Scott Robinson, Chuc

Hobbs #3-2

Job Ticket: 54100

DST#: 2

Test Start: 2014.04.14 @ 16:15:18

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 5.97 in³
Resistivity: ohm.m
Salinity: 5000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

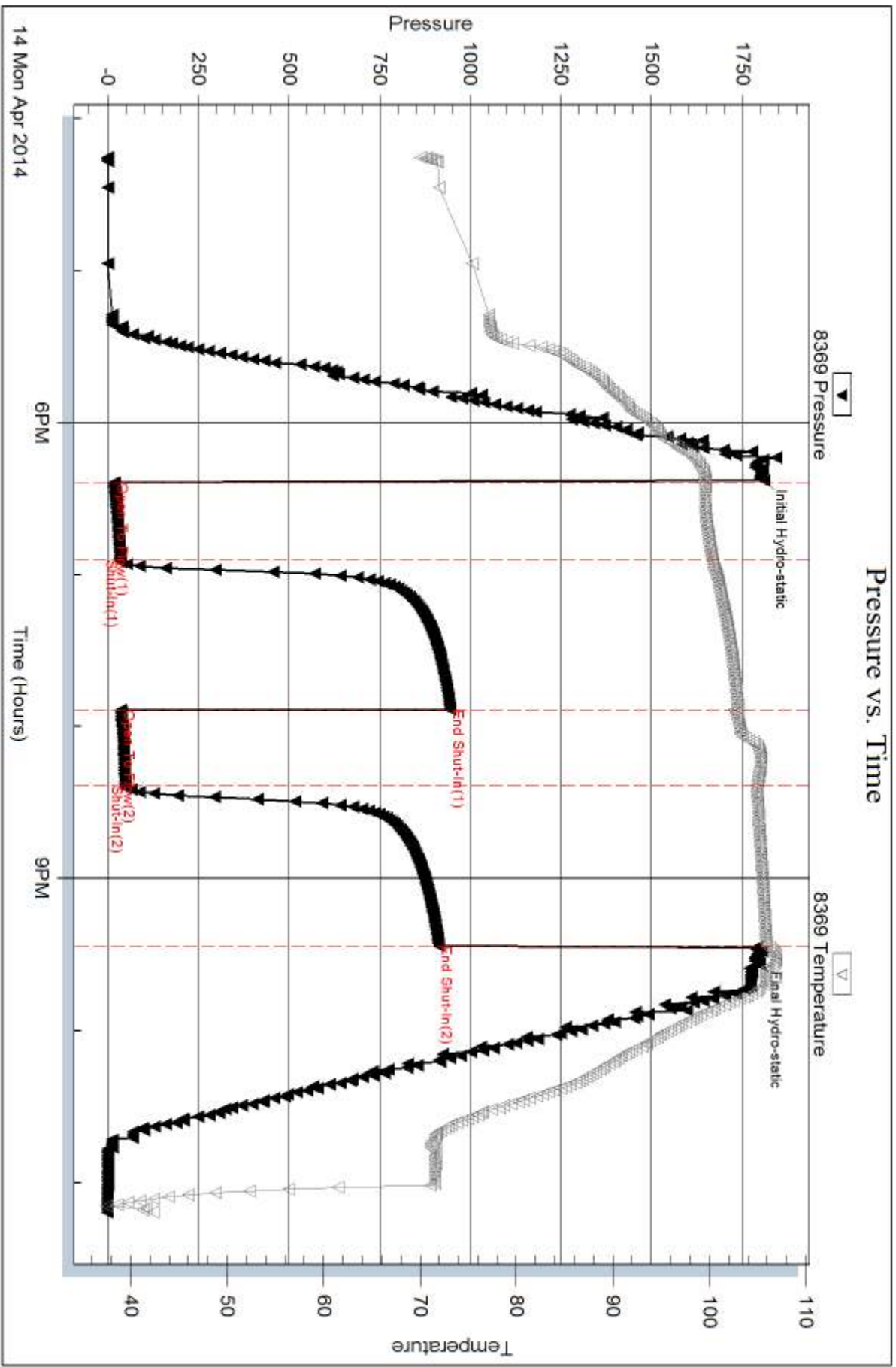
Length ft	Description	Volume bbl
60.00	Mud	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

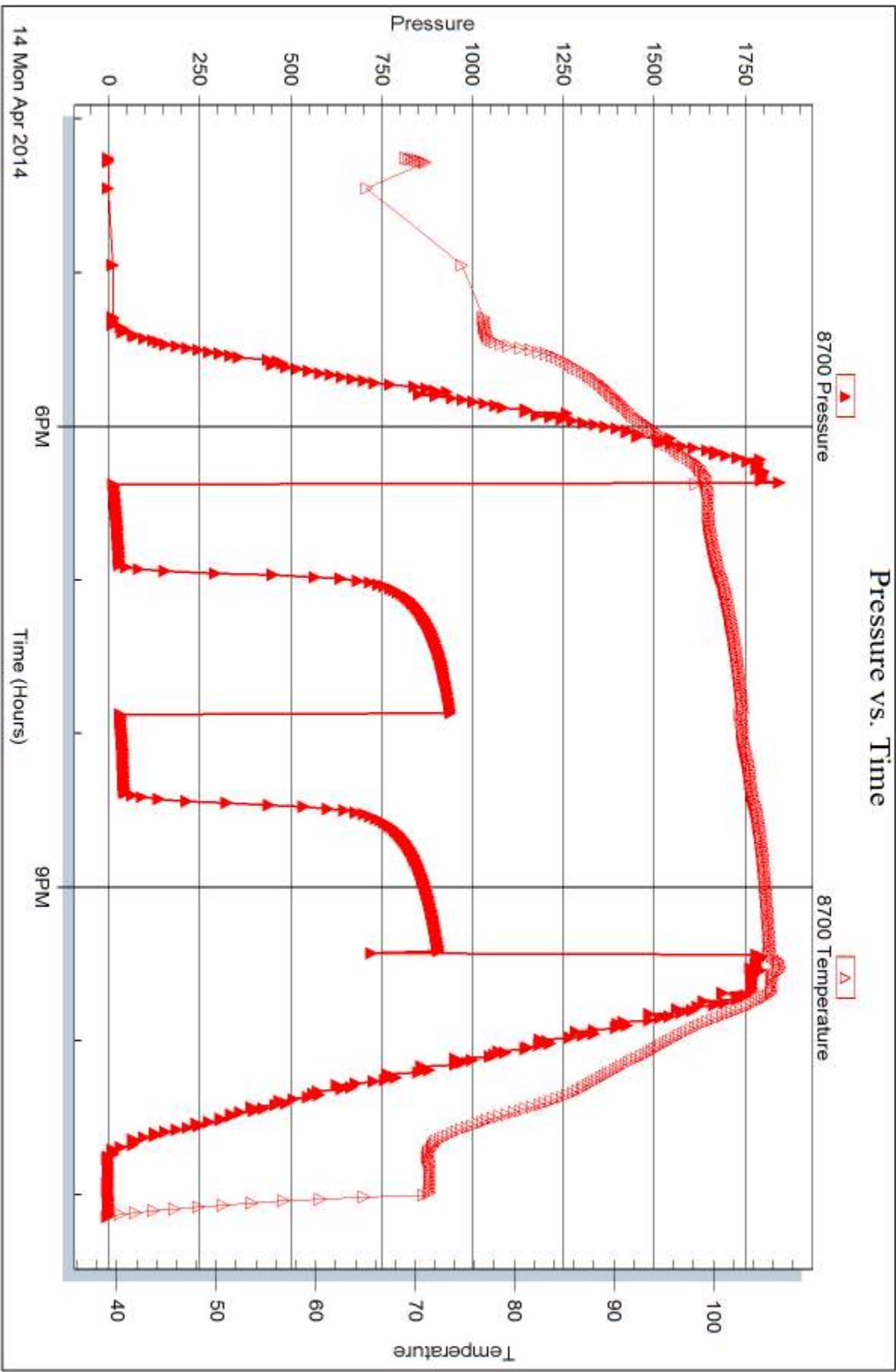


14 Mon Apr 2014

6PM

Time (Hours)

9PM





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
STE 300
Wichita Ks 67202-1216

ATTN: Scott Robinson, Chuc

Hobbs #3-2

2-11s-24w Trego

Start Date: 2014.04.15 @ 15:00:16

End Date: 2014.04.15 @ 23:04:10

Job Ticket #: 55326 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.04.17 @ 16:00:28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N. Water
STE 300
Wichita Ks 67202-1216
ATTN: Scott Robinson, Chuc

2-11s-24w Trego

Hobbs #3-2

Job Ticket: 55326

DST#: 3

Test Start: 2014.04.15 @ 15:00:16

GENERAL INFORMATION:

Formation: **LKC H-L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:10:26
 Time Test Ended: 23:04:10
 Interval: **3798.00 ft (KB) To 3915.00 ft (KB) (TVD)**
 Total Depth: 3915.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 70
 Reference Elevations: 2311.00 ft (KB)
 2306.00 ft (CF)
 KB to GR/CF: 5.00 ft

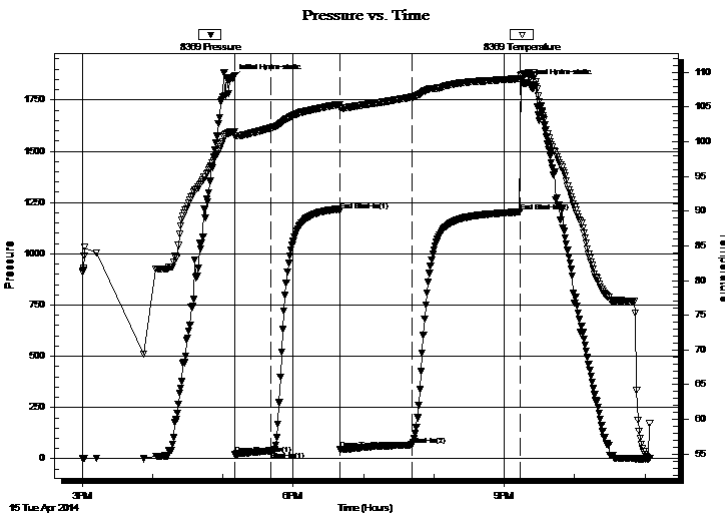
Serial #: 8369

Inside

Press@RunDepth: 67.48 psig @ 3802.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.15 End Date: 2014.04.15 Last Calib.: 2014.04.15
 Start Time: 15:00:16 End Time: 23:04:10 Time On Btm: 2014.04.15 @ 17:07:56
 Time Off Btm: 2014.04.15 @ 21:16:55

TEST COMMENT: 30-IFP-w k bl thru-out 1/4" to 1" bl
 60-ISIP-no bl
 60-FFP-w k bl thru-out , surface bl
 90-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1852.75	101.40	Initial Hydro-static
3	22.48	100.86	Open To Flow (1)
33	38.09	101.98	Shut-In(1)
92	1210.36	105.36	End Shut-In(1)
92	44.55	104.86	Open To Flow (2)
153	67.48	106.40	Shut-In(2)
246	1203.22	109.08	End Shut-In(2)
249	1829.12	109.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	SOCM 1%O99%M	0.39

* 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

2-11s-24w Trego

250 N. Water
STE 300
Wichita Ks 67202-1216
ATTN: Scott Robinson, Chuc

Hobbs #3-2

Job Ticket: 55326

DST#: 3

Test Start: 2014.04.15 @ 15:00:16

Tool Information

Drill Pipe:	Length: 3639.00 ft	Diameter: 3.80 inches	Volume: 51.05 bbl	Tool Weight: 2200.00 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: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 51.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3798.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	117.00 ft			
Tool Length:	146.00 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			3770.00	
Shut In Tool	5.00			3775.00	
Hydraulic tool	5.00			3780.00	
Jars	5.00			3785.00	
Safety Joint	3.00			3788.00	
Packer	5.00			3793.00	29.00 Bottom Of Top Packer
Packer	5.00			3798.00	
Stubb	1.00			3799.00	
Perforations	3.00			3802.00	
Recorder	0.00	8369	Inside	3802.00	
Recorder	0.00	8700	Outside	3802.00	
Blank Spacing	95.00			3897.00	
Perforations	15.00			3912.00	
Bullnose	3.00			3915.00	117.00 Bottom Packers & Anchor

Total Tool Length: 146.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

2-11s-24w Trego

250 N. Water
STE 300
Wichita Ks 67202-1216
ATTN: Scott Robinson, Chuc

Hobbs #3-2

Job Ticket: 55326

DST#: 3

Test Start: 2014.04.15 @ 15:00:16

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 5.99 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	SOCM 1%O99%M	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

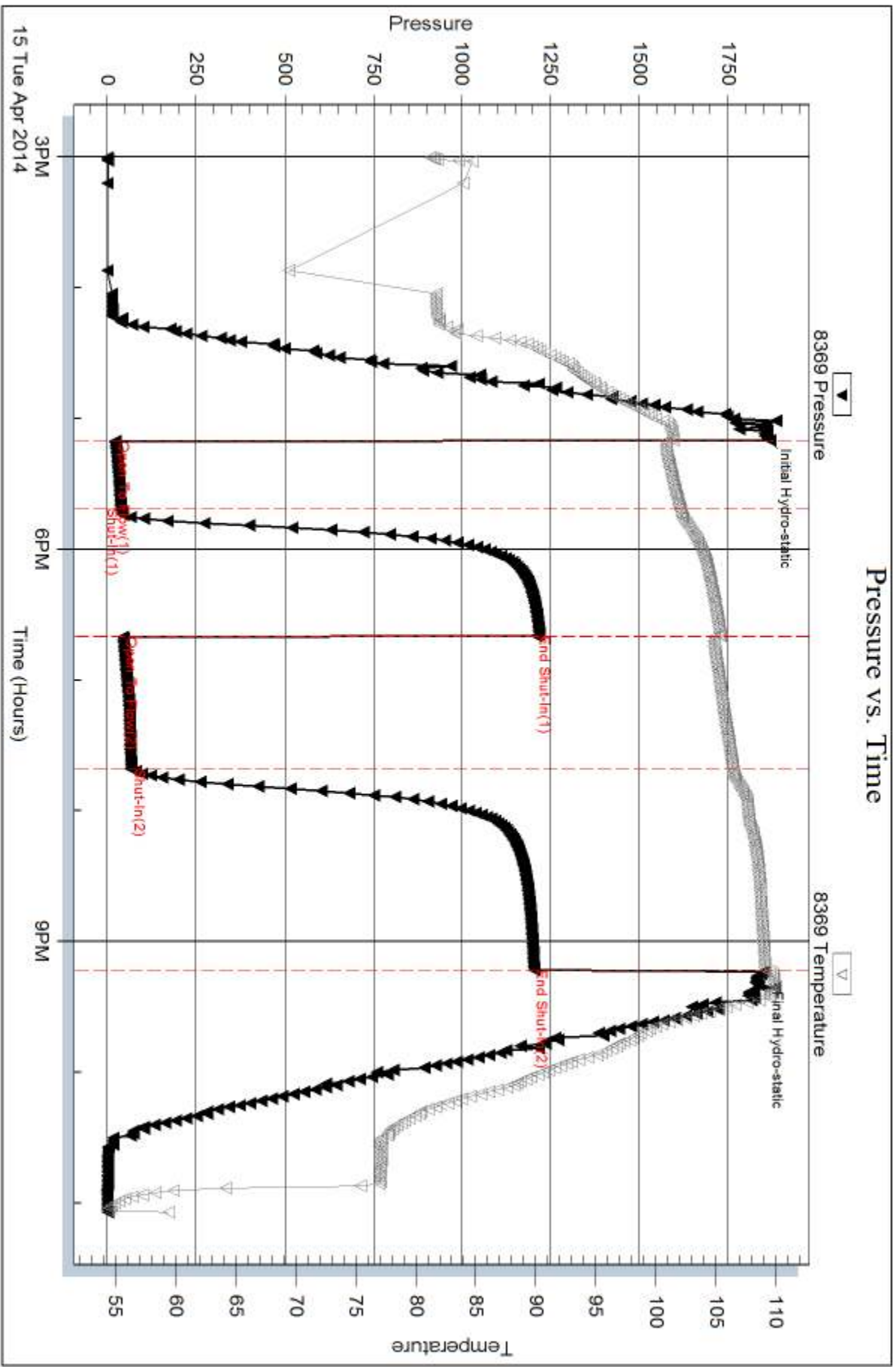
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

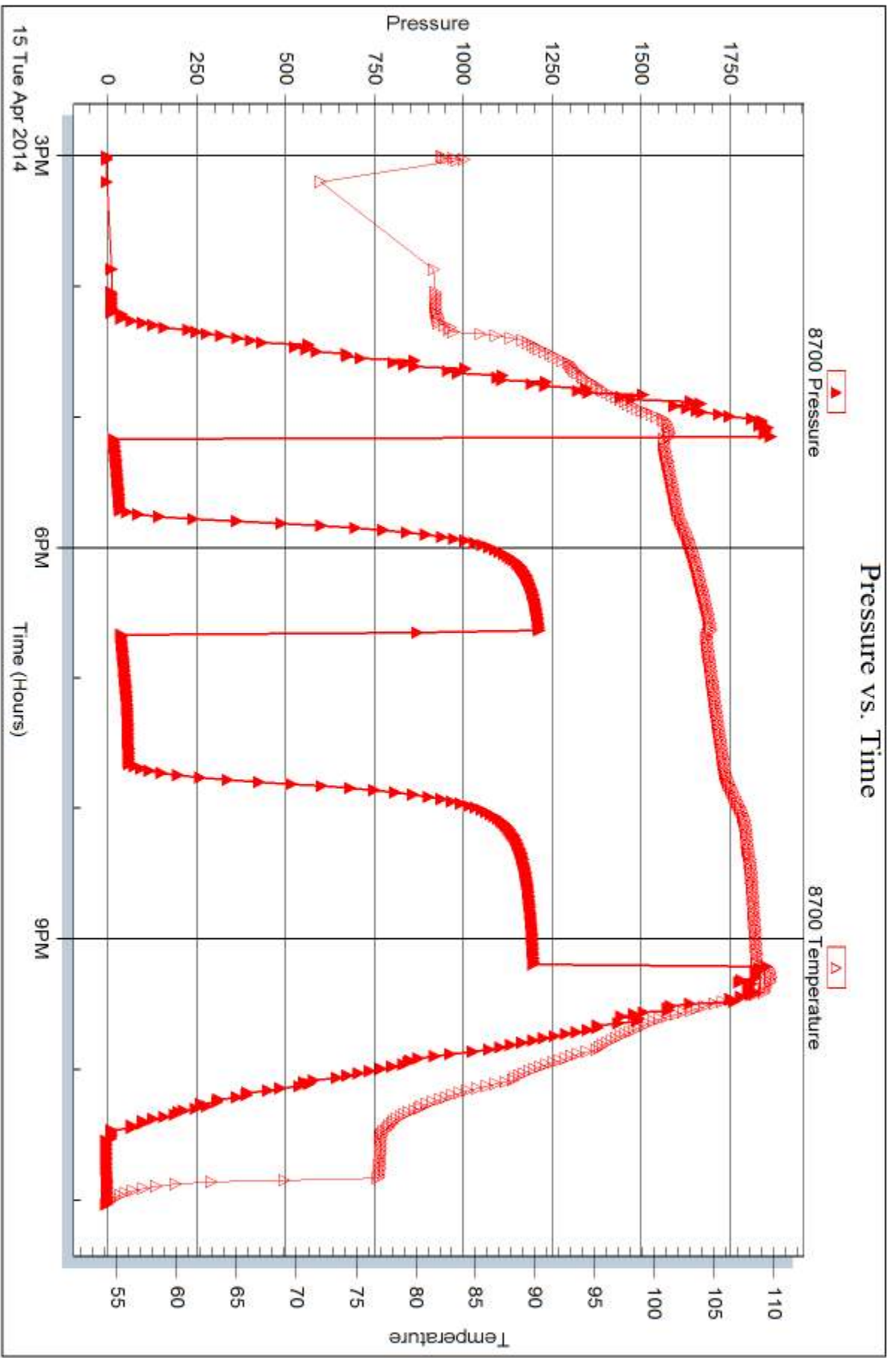


Serial #: 8700

Outside Murfin Drilling Co Inc

Hobbs #3-2

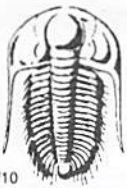
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 55326

Printed: 2014.04.17 @ 16:00:31



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54099

Well Name & No. Hobbs # 3-2 Test No. 1 Date 4-13-14
 Company Murfin Drilling Co Inc Elevation 2311 KB 2306 GL
 Address 250 N. WATER, STE 300 WICHITA, KS 67202-1216
 Co. Rep / Geo. Chuck Schmalz Rig Murfin rig 24
 Location: Sec. 2 Twp. 11^s Rge. 24^w Co. _____ State Ks

Interval Tested 3698-3735 Zone Tested LKC B-0
 Anchor Length 37 Drill Pipe Run 3549 Mud Wt. 8.7
 Top Packer Depth 3693 Drill Collars Run 150 Vis 52
 Bottom Packer Depth 3698 Wt. Pipe Run - WL 6
 Total Depth 3735 Chlorides 3000 ppm System LCM 3#

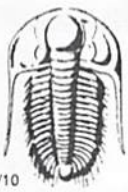
Blow Description IFP - Weak Blow Then-out
ISTP - NO Blow
FFP - SURFACE Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>SOCM</u>		<u>2</u>		<u>98</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 80 BHT 109 Gravity - API RW - @ - ° F Chlorides - ppm
 (A) Initial Hydrostatic 1756 Test 1150 T-On Location 0920
 (B) First Initial Flow 40 Jars 250 T-Started 1115
 (C) First Final Flow 50 Safety Joint 75 T-Open 1355
 (D) Initial Shut-In 1081 Circ Sub T-Pulled 1755
 (E) Second Initial Flow 52 Hourly Standby T-Out 1939
 (F) Second Final Flow 62 Mileage 95 RT 147.25 Comments Slid Tool Approx 10' To Bottom
 (G) Final Shut-In 1064 Sampler Ruined Shale Packer
 (H) Final Hydrostatic 1739 Straddle Ruined Packer
 Shale Packer Extra Copies
 Extra Packer Extra Recorder
 Extra Recorder Sub Total 0
 Day Standby Total 1622.25
 Accessibility MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1622.25

Approved By [Signature] Our Representative Ray Schwager Thank you
 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. 54100

Well Name & No. Hobbs #3-2 Test No. 2 Date 4-14-14
 Company Murfin Drilling Co Inc Elevation 2311 KB 2306 GL
 Address 250 N. WATER, STE 300 WICHITA, KS 67202-1216
 Co. Rep / Geo. Chuck Schmalz Rig Murfin rig 24
 Location: Sec. 2 Twp. 11^s Rge. 24^w Co. Trego State Ko

Interval Tested 3738-3774 Zone Tested LKC E-F
 Anchor Length 36 Drill Pipe Run 3643 Mud Wt. 9
 Top Packer Depth 3733 Drill Collars Run 90 Vis 57
 Bottom Packer Depth 3738 Wt. Pipe Run - WL 6
 Total Depth 3774 Chlorides 5000 ppm System LCM 3#

Blow Description TFP - Weak Blow then-out 1/4" Blow
ISIP - NO Blow
FFP - NO Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>Mud</u>				

Rec Total 60 BHT 106 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1799</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1510</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1615</u>
(C) First Final Flow <u>34</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1825</u>
(D) Initial Shut-In <u>944</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2125</u>
(E) Second Initial Flow <u>37</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2311</u>
(F) Second Final Flow <u>48</u>	<input checked="" type="checkbox"/> Mileage <u>95RT</u> 147.25	Comments
(G) Final Shut-In <u>912</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1785</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1622.25</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1622.25</u>	

Approved By *Chuck Schmalz* Our Representative *Ray Schwager* *Thank you*

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55326

Well Name & No. Hobbs #3-2 Test No. 3 Date 4-15-14
 Company Murfin Drilling Co, Inc Elevation 2311 KB 2306 GL
 Address 250 N. WATER, STE 300 WICHITA, KS 67202-1216
 Co. Rep / Geo. Chuck Schmalte Rig Murfin rig 24
 Location: Sec. 2 Twp. 11^s Rge. 24^w Co. Trego State Ks

Interval Tested 3798-3915 Zone Tested LKC H-L
 Anchor Length 117 Drill Pipe Run 3639 Mud Wt. 8.9
 Top Packer Depth 3793 Drill Collars Run 90 Vis 54
 Bottom Packer Depth 3798 Wt. Pipe Run — WL 6
 Total Depth 3915 Chlorides 5600 ppm System LCM 3#
 Blow Description IFP - WEAK Blow thru-out 1/4" to 1" Blow
ISTP - NO Blow
FFP - WEAK Blow thru-out surface Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>50CM</u>		<u>1</u>		<u>99</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 80 BHT 109 Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic <u>1852</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1405</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1500</u>
(C) First Final Flow <u>38</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1655</u>
(D) Initial Shut-In <u>1210</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2055</u>
(E) Second Initial Flow <u>44</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2304</u>
(F) Second Final Flow <u>67</u>	<input checked="" type="checkbox"/> Mileage <u>95RT</u> 147.25	Comments
(G) Final Shut-In <u>1203</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1829</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>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1622.25</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1622.25</u>	

Approved By [Signature] Our Representative Ray Schwager Thank you

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*WCS
Problems*

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 1425 14

Invoice Date: Apr 9, 2014

Page: 1

Voice: (817) 546-7282

Fax: (817) 246-3361

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	62090	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Oakley	Apr 9, 2014	5/9/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Hobbs #3-2		
180.00	CEMENT MATERIALS	Class A Common	17.90	3,222.00
6.00	CEMENT MATERIALS	Chloride	64.00	384.00
189.00	CEMENT SERVICE	Cubic Feet Charge	2.48	468.72
566.80	CEMENT SERVICE	Ton Mileage Charge	2.60	1,473.68
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
65.00	CEMENT SERVICE	Pump Truck Mileage	7.70	500.50
1.00	CEMENT SERVICE	Swege Manifold Rental	275.00	275.00
65.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	286.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	CEMENT SUPERVISOR	Andrew Forslund		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		

Subtotal	8,122.15
Sales Tax	275.86
Total Invoice Amount	8,398.01
Payment/Credit Applied	
TOTAL	8,398.01

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

\$ 2,842.75 *✓*

ONLY IF PAID ON OR BEFORE

May 4, 2014

Sl
- 2842.75
5555.26



PO Box 93999
Southlake, TX 76092

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

INVOICE

*acct.
Prod-MG*

Invoice Number: 142651
Invoice Date: Apr 16, 2014
Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	55220	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-03	Russell	Apr 16, 2014	5/16/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Hobbs #3-2		
210.00	CEMENT MATERIALS	60/40 4% Mix	15.30	3,213.00
210.00	CEMENT SERVICE	Cubic Feet Charge	1.40	294.00
543.00	CEMENT SERVICE	Ton Mileage Charge	2.60	1,411.80
1.00	CEMENT SERVICE	Plug to Abandon	2,249.84	2,249.84
60.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	264.00
120.00	CEMENT SERVICE	Heavy Vehicle Mileage	7.70	924.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	110.00	110.00
1.00	CEMENT SUPERVISOR	Robert Yakubovich		
1.00	EQUIPMENT OPERATOR	Nathan Donner		
1.00	OPERATOR ASSISTANT	Jesse Cozart		

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

\$ 2,963.32 ✓✓

ONLY IF PAID ON OR BEFORE
May 11, 2014

Subtotal	8,466.64
Sales Tax	647.70
Total Invoice Amount	9,114.34
Payment/Credit Applied	
TOTAL	9,114.34

OK
JR

-2963.32
6151.02

ALLIED OIL & GAS SERVICES, LLC 055220

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell KS

DATE <u>4-16-14</u>	SEC. <u>2</u>	TWP. <u>11</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 PM</u>	JOB FINISH <u>12:00 AM</u>
LEASE <u>Hobbs</u>	WELL# <u>3-2</u>	LOCATION <u>Wakarusa KS 6nd 3 1/2 W N110</u>			COUNTY <u>Trego</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Murfin 24
 TYPE OF JOB PTA
 HOLE SIZE 7 7/8 T.D. 4025
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 16.6 DEPTH 1943
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

OWNER
 CEMENT AMOUNT ORDERED 2.10 60/40 4% gel
 COMMON @ _____
 POZMIX @ _____
 GEL @ _____
 CHLORIDE @ _____
 ASC @ _____
60/40 4% mix 2.10 @ 15.30 3213.00
 @ _____
 @ _____
Materials @ 3213.00
Disc. @ 1124.55
 @ _____
 @ _____
 @ _____
 HANDLING 2.10 sks @ 1.40 294.00
 MILEAGE 5.43 +/m @ 2.60 1411.80
 TOTAL 4918.80

EQUIPMENT

PUMP TRUCK CEMENTER Robert Y
 # 409 HELPER Nathan D
 BULK TRUCK
 # 410 DRIVER Jesse C
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

See log

Thank you!!!

SERVICE

DEPTH OF JOB 1943
 PUMP TRUCK CHARGE 2249.84
 EXTRA FOOTAGE @ _____
 MILEAGE 60 LVMT @ 4.40 264.00
 MANIFOLD @ _____
120 HVMT @ 7.70 924.00
 @ _____
 @ _____
Disc 1800.27 TOTAL 5143.64
~~TOTAL 3437.84~~

PLUG & FLOAT EQUIPMENT

8 7/8 Wooden plug @ 110.00 110.00
 @ _____
 @ _____
 @ _____
 @ _____
Disc 38.50 TOTAL 110.00

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 Anthony Martin
 SIGNATURE Anthony Martin

SALES TAX (If Any) _____
 TOTAL CHARGES 8466.64
 DISCOUNT 2963.32 35% IF PAID IN 30 DAYS
 net 5503.32

4/15/14 Depth 3853'. Cut: 101'. DT: 1 ½ hrs. pump, CT: 16hrs. Dev. None. **DST #2 3738-3774 (LKC E-F)**: 30-60-30-60. IF: wk blw thru-out ¼". FF: no blw. Rec: 60' M, HP: 1799-1785. FP: 19/35, 37/48. SIP: 944-912. BHT 106°. **LKC I**: ls: tan, brwn, lt grey, fnxtln, ool, well-cemented, vpr-pr interxtln por, SSFO, vry slow bleed O&G on brk, fr-gd patchy-even golden brwn st w/ sat, ft odor, fr-gd % of spl with show, no drlg brk. **LKC J**: ls: off-wh, lt grey, fn-medxtln, granular, sli ool, v sli foss, vpr-pr interxtln por & pr -scat fr vuggy por (isolated?), SSFO w/ few gas bubbles on brk, pr-fr spotty-patchy dk brwn st, pr sat, no odor. **LKC K**: ls: off-wh, lt grey, fn-medxtln, ool in part, scat pr interoolitic & vuggy por, few pcs w/ S-FSFO, pr inter-oolitic dk st, pr streaky sat, no odor. **LKC L**: ls: tan, lt grey, fnxtln, sli ool, sli chalky, rare isolated vug, cpl pcs w/ dk edge st (from above?), NSFO, no odor. **DST #3 3798-3915 (LKC H-L)**

4/16/14 RTD: 4025'. Cut 172'. DT: None. CT: 15½ hrs. Dev.: None. **DST #3 3798-3915 (LKC H-L)**: 30-60-60-90. IF: wk blw thru-out ¼" to 1" blw. FF: wk blw thru-out, surf blw. Rec.: 80'SOCM (1%O, 99%M). HP: 1853-1829. FP: 22/38, 46/67. BHT: 109°. HC @ 5:45AM 4/16.

4/17/14 RTD: 4025'. CT: 20½ hrs. Pioneer logged 11:00AM – 3:00PM, 4/16, LTD: 4022'. Allied plugged hole, 7:15PM – 11:30PM, as follows using 60/40Poz, 4%Gel, ¼#Flo seal, 25sxs @ 1943', 100sxs @1010', 40sxs @ 270, 10sxs @ 40', 30sxs RH. Orders: Richard Williams KCC 4/11. RR @ 3:30AM 4/17. FINAL REPORT

Hobbs #3-2 1980' FSL 1648' FWL Sec. 2-T11S-R24W 2311' KB							Hobbs #1-2 1111' FNL 1648' FWL Sec. 2-T11S-R24W 2350' KB		
Formation	Sample tops	Datum	Ref	Log Tops	Datum	Ref	Log Tops	Datum	
Anhydrite	1933	+378	-12	1928	+383	-7	1960	+390	
B/Anhydrite	1962	+349	-1	1962	+349	-1	2000	+350	
Topeka	3420	-1109	-11	3418	-1107	-9	3448	-1098	
Heebner	3642	-1331	-13	3640	-1329	-11	3668	-1318	
Toronto	3663	-1352	-13	3661	-1350	-11	3689	-1339	
Lansing	3679	-1368	-12	3677	-1366	-10	3706	-1356	
BKC	3907	-1596	-16	3906	-1595	-15	3930	-1580	
RTD	4025						4050	-1700	
LTD				4022			4048	-1698	