



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1235380
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: _____

1235380

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
--	---

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> _____
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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	Kacirek Trust 2-5
Doc ID	1235380

All Electric Logs Run

DIL
DUCP
MEL
BHCS



DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg, Co., Inc.**

250 N. Water, STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Kacirek Trust #2-5

5-2s-36w Rawlins,KS

Start Date: 2014.09.22 @ 14:16:00

End Date: 2014.09.22 @ 21:52:30

Job Ticket #: 60768 DST #: 1

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

Printed: 2014.10.01 @ 15:56:48



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60768

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.09.22 @ 14:16:00

GENERAL INFORMATION:

Formation: **Stotler**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:52:30

Time Test Ended: 21:52:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 48

Interval: 3884.00 ft (KB) To 3949.00 ft (KB) (TVD)

Reference Elevations: 3241.00 ft (KB)

Total Depth: 3949.00 ft (KB) (TVD)

3230.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8647 Inside

Press@RunDepth: 45.50 psig @ 3885.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.22 End Date: 2014.09.22

Last Calib.: 2014.09.22

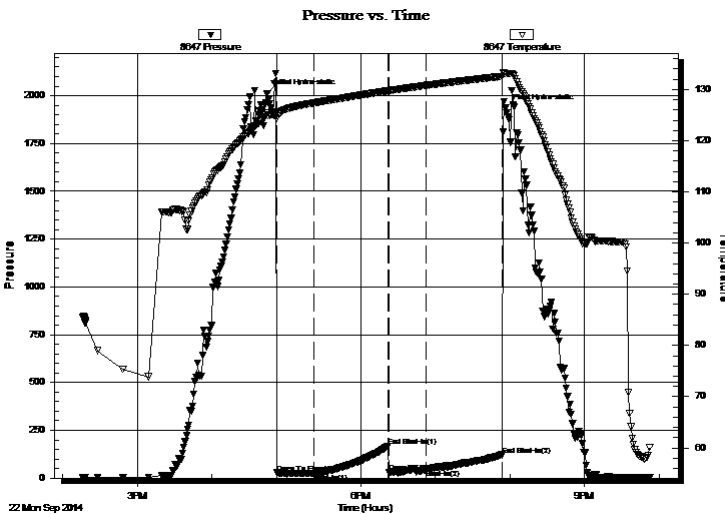
Start Time: 14:16:01 End Time: 21:52:30

Time On Btm: 2014.09.22 @ 16:44:30

Time Off Btm: 2014.09.22 @ 19:56:30

TEST COMMENT: 30 - IF - Opened w/ surface blow , didn't build
60 - ISI - No Return
30 - FF - No Blow
60 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2011.98	125.39	Initial Hydro-static
8	27.77	124.27	Open To Flow (1)
38	25.81	127.37	Shut-In(1)
97	166.89	129.72	End Shut-In(1)
98	30.91	129.69	Open To Flow (2)
128	45.50	130.78	Shut-In(2)
189	121.71	132.55	End Shut-In(2)
192	1934.44	133.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	100% mud	0.01

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60768

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.09.22 @ 14:16:00

GENERAL INFORMATION:

Formation: **Stotler**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:52:30

Time Test Ended: 21:52:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 48

Interval: 3884.00 ft (KB) To 3949.00 ft (KB) (TVD)

Total Depth: 3949.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3241.00 ft (KB)

3230.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8372 Outside

Press@RunDepth: psig @ 3885.00 ft (KB)

Start Date: 2014.09.22

End Date:

2014.09.22

Start Time: 14:16:01

End Time:

21:53:30

Capacity: 8000.00 psig

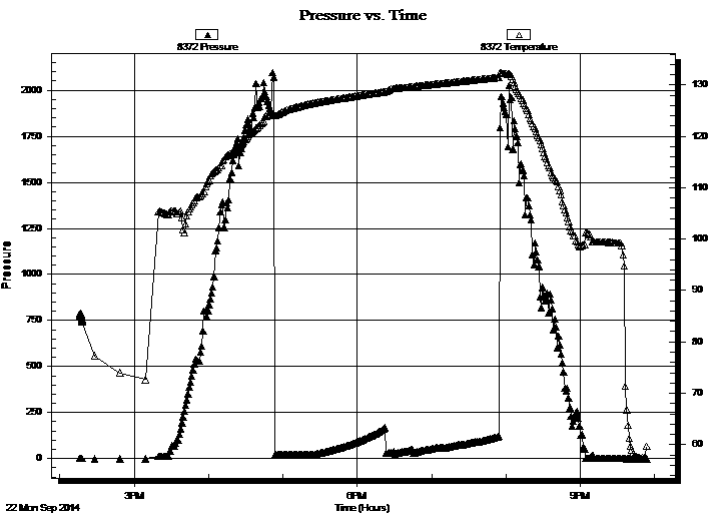
Last Calib.:

2014.09.22

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF - Opened w/ surface blow , didn't build
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)
2.00	100% mud	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60768

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.09.22 @ 14:16:00

Tool Information

Drill Pipe:	Length: 3655.00 ft	Diameter: 3.80 inches	Volume: 51.27 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 207.34 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.34 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	3884.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	93.00 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			3857.00	
Shut In Tool	5.00			3862.00	
Hydraulic tool	5.00		Inside	3867.00	
Jars	5.00			3872.00	
Safety Joint	3.00			3875.00	
Packer	5.00			3880.00	28.00 Bottom Of Top Packer
Packer	4.00			3884.00	
Stubb	1.00			3885.00	
Recorder	0.00	8647	Inside	3885.00	
Recorder	0.00	8372	Outside	3885.00	
Perforations	27.00			3912.00	
Change Over Sub	1.00			3913.00	
Drill Pipe	32.00			3945.00	
Change Over Sub	1.00			3946.00	
Bullnose	3.00			3949.00	65.00 Bottom Packers & Anchor

Total Tool Length: 93.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60768

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.09.22 @ 14:16:00

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: 76.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 4.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	100% mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

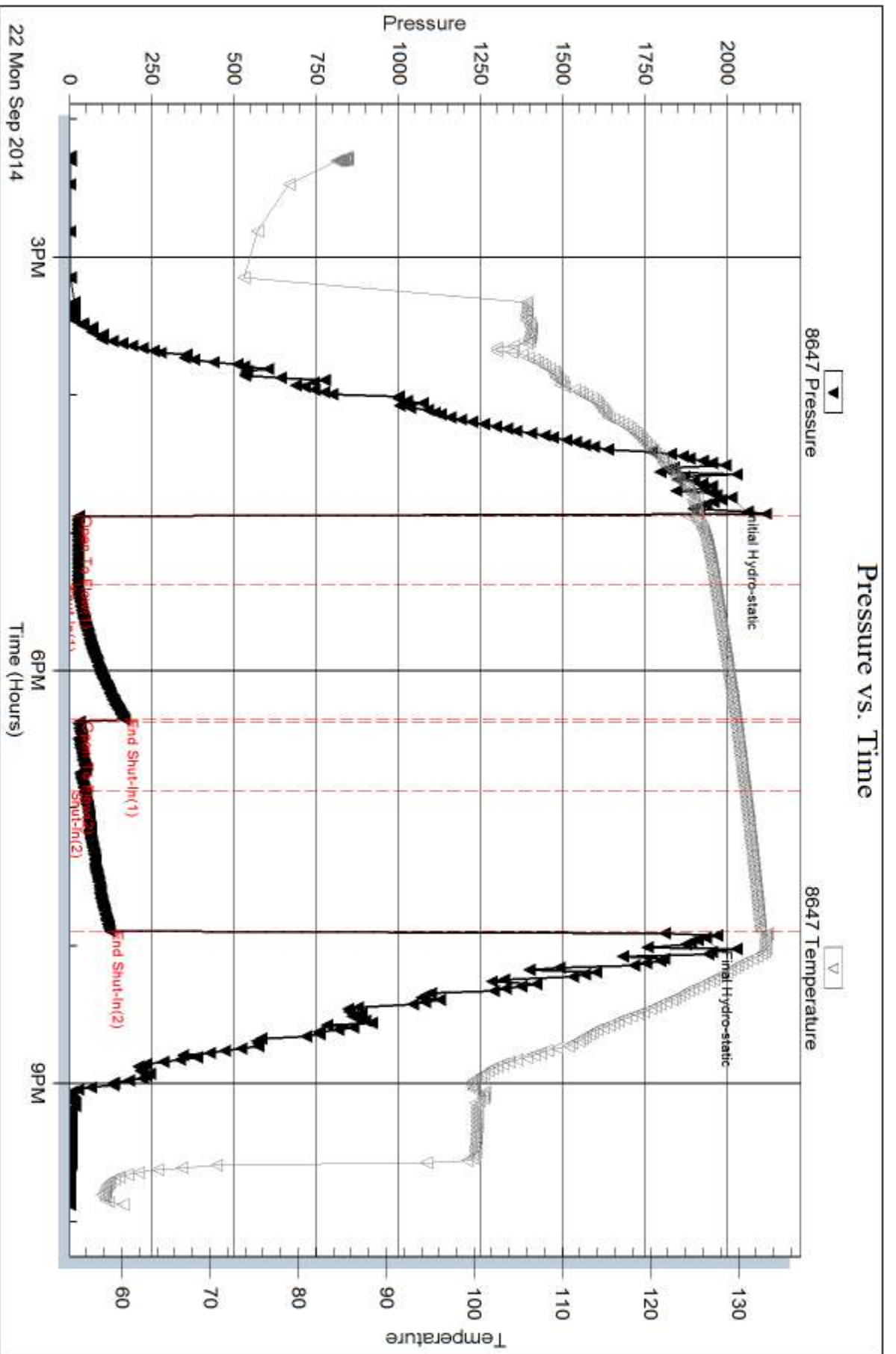
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

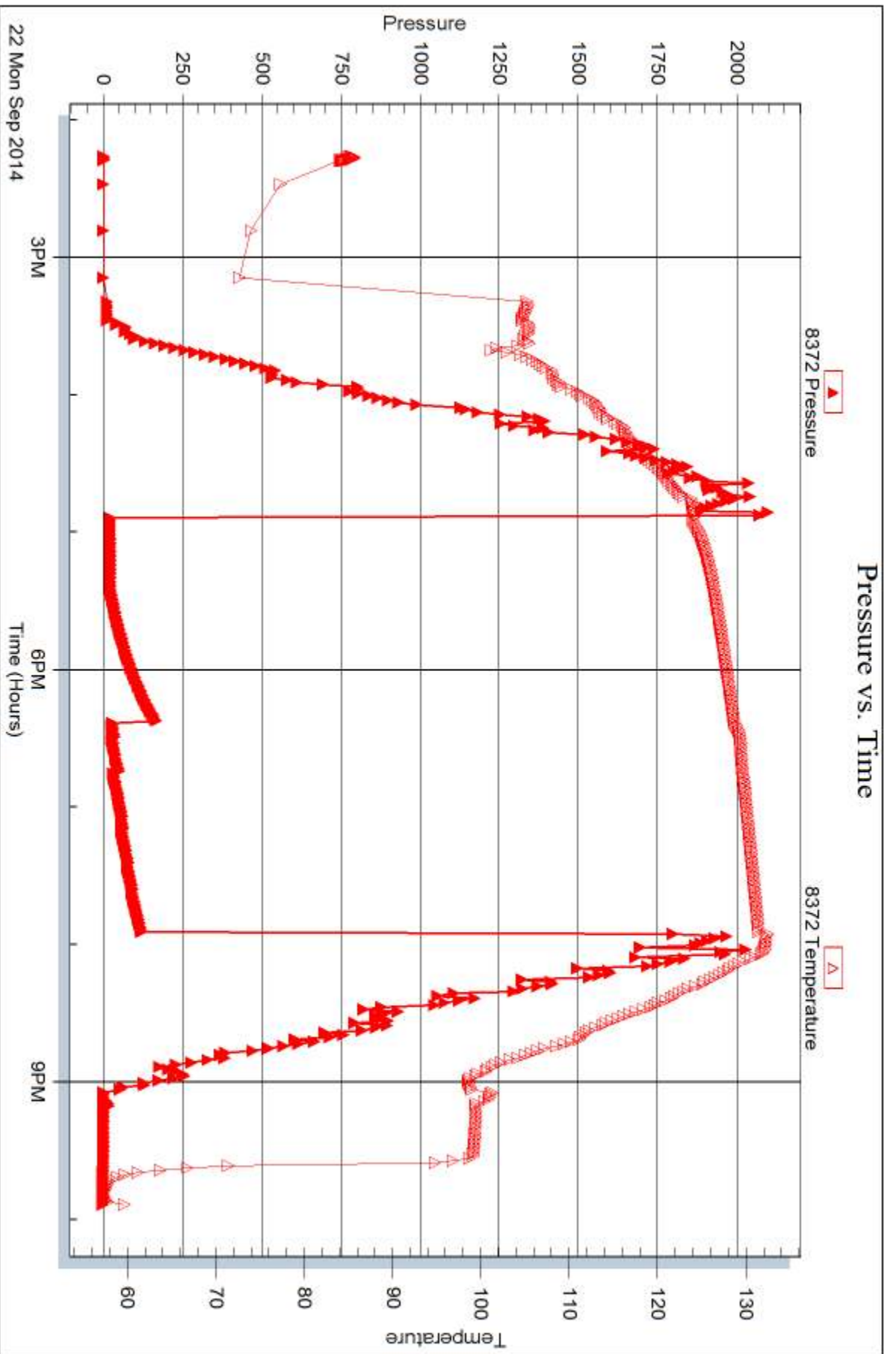


Serial #: 8372

Outside Murfin Drfg. Co., Inc.

Kacirek Trust #2-5

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 60768

Printed: 2014, 10.01 @ 15:56:50



DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg, Co., Inc.**

250 N. Water, STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Kacirek Trust #2-5

5-2s-36w Rawlins,KS

Start Date: 2014.09.23 @ 12:46:00

End Date: 2014.09.23 @ 21:31:30

Job Ticket #: 60769 DST #: 2

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

Printed: 2014.10.01 @ 15:56:27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg. Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

ATTN: Robert Hendrix

Job Ticket: 60769

DST#: 2

Test Start: 2014.09.23 @ 12:46:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:43:30

Time Test Ended: 21:31:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 48

Interval: 4033.00 ft (KB) To 4087.00 ft (KB) (TVD)

Reference Elevations: 3241.00 ft (KB)

Total Depth: 4087.00 ft (KB) (TVD)

3230.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8647

Inside

Press@RunDepth: 341.73 psig @ 4034.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.23

End Date: 2014.09.23

Last Calib.: 2014.09.23

Start Time: 12:46:01

End Time: 21:31:30

Time On Btm: 2014.09.23 @ 14:40:30

Time Off Btm: 2014.09.23 @ 18:52:30

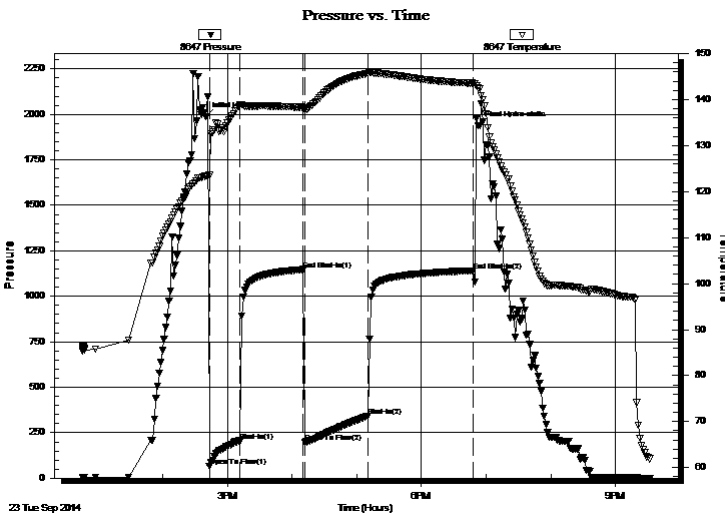
TEST COMMENT: 30 - IF - Opened w/ surface blow , built to B.o.B in 13 min.

60 - ISI - No Return

60 - FF - Blow built to B.o.B in 15 min.

90 - FSI - Return built to 3

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1985.53	123.44	Initial Hydro-static
3	64.81	123.53	Open To Flow (1)
32	204.53	138.93	Shut-In(1)
90	1146.69	138.33	End Shut-In(1)
92	197.81	137.88	Open To Flow (2)
150	341.73	145.72	Shut-In(2)
248	1140.95	143.56	End Shut-In(2)
252	1936.18	142.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MW 90%w , 10%m	0.89
184.00	WOCM 75%w , 20%m, 5%o	2.33
248.00	OCM 80%m, 20%o	3.48
90.00	100%CO	1.26

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg, Co., Inc.
250 N. Water, STE 300
Wichita, KS 67202
ATTN: Robert Hendrix

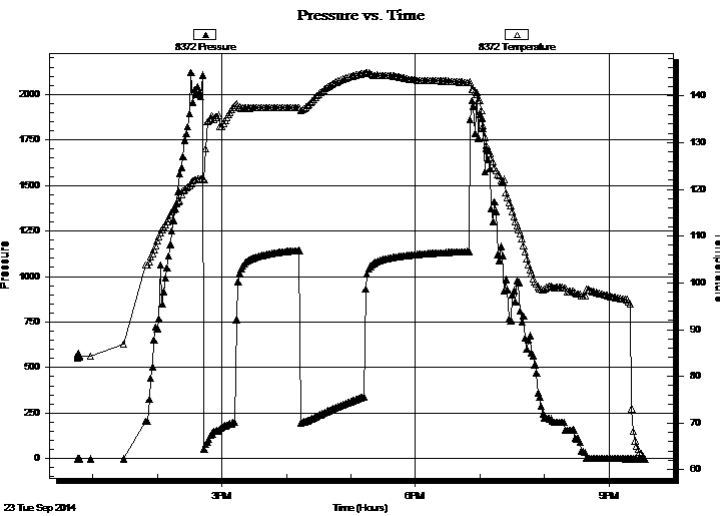
5-2s-36w Rawlins,KS
Kacirek Trust #2-5
Job Ticket: 60769 **DST#: 2**
Test Start: 2014.09.23 @ 12:46:00

GENERAL INFORMATION:

Formation: **Oread**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:43:30
Time Test Ended: 21:31:30
Interval: **4033.00 ft (KB) To 4087.00 ft (KB) (TVD)**
Total Depth: 4087.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Quintana
Unit No: 48
Reference Elevations: 3241.00 ft (KB)
3230.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8372 Outside
Press@RunDepth: psig @ 4034.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.23 End Date: 2014.09.23 Last Calib.: 2014.09.23
Start Time: 12:46:01 End Time: 21:33:00 Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF - Opened w/ surface blow , built to B.o.B in 13 min.
60 - ISI - No Return
60 - FF - Blow built to B.o.B in 15 min.
90 - FSI - Return built to 3



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MW 90%w , 10%m	0.89
184.00	WOCM 75%w , 20%m, 5%o	2.33
248.00	OCM 80%m, 20%o	3.48
90.00	100%CO	1.26

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60769

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.09.23 @ 12:46:00

Tool Information

Drill Pipe:	Length: 3814.00 ft	Diameter: 3.80 inches	Volume: 53.50 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 207.34 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 54.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.34 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4033.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	82.00 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			4006.00	
Shut In Tool	5.00			4011.00	
Hydraulic tool	5.00		Inside	4016.00	
Jars	5.00			4021.00	
Safety Joint	3.00			4024.00	
Packer	5.00			4029.00	28.00 Bottom Of Top Packer
Packer	4.00			4033.00	
Stubb	1.00			4034.00	
Recorder	0.00	8647	Inside	4034.00	
Recorder	0.00	8372	Outside	4034.00	
Perforations	16.00			4050.00	
Change Over Sub	1.00			4051.00	
Drill Pipe	32.00			4083.00	
Change Over Sub	1.00			4084.00	
Bullnose	3.00			4087.00	54.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60769

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.09.23 @ 12:46:00

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: 76.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 4.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	MW 90%w , 10%m	0.885
184.00	WOCM 75%w , 20%m, 5%o	2.332
248.00	OCM 80%m, 20%o	3.479
90.00	100%CO	1.262

Total Length: 702.00 ft Total Volume: 7.958 bbl

Num Fluid Samples: 0

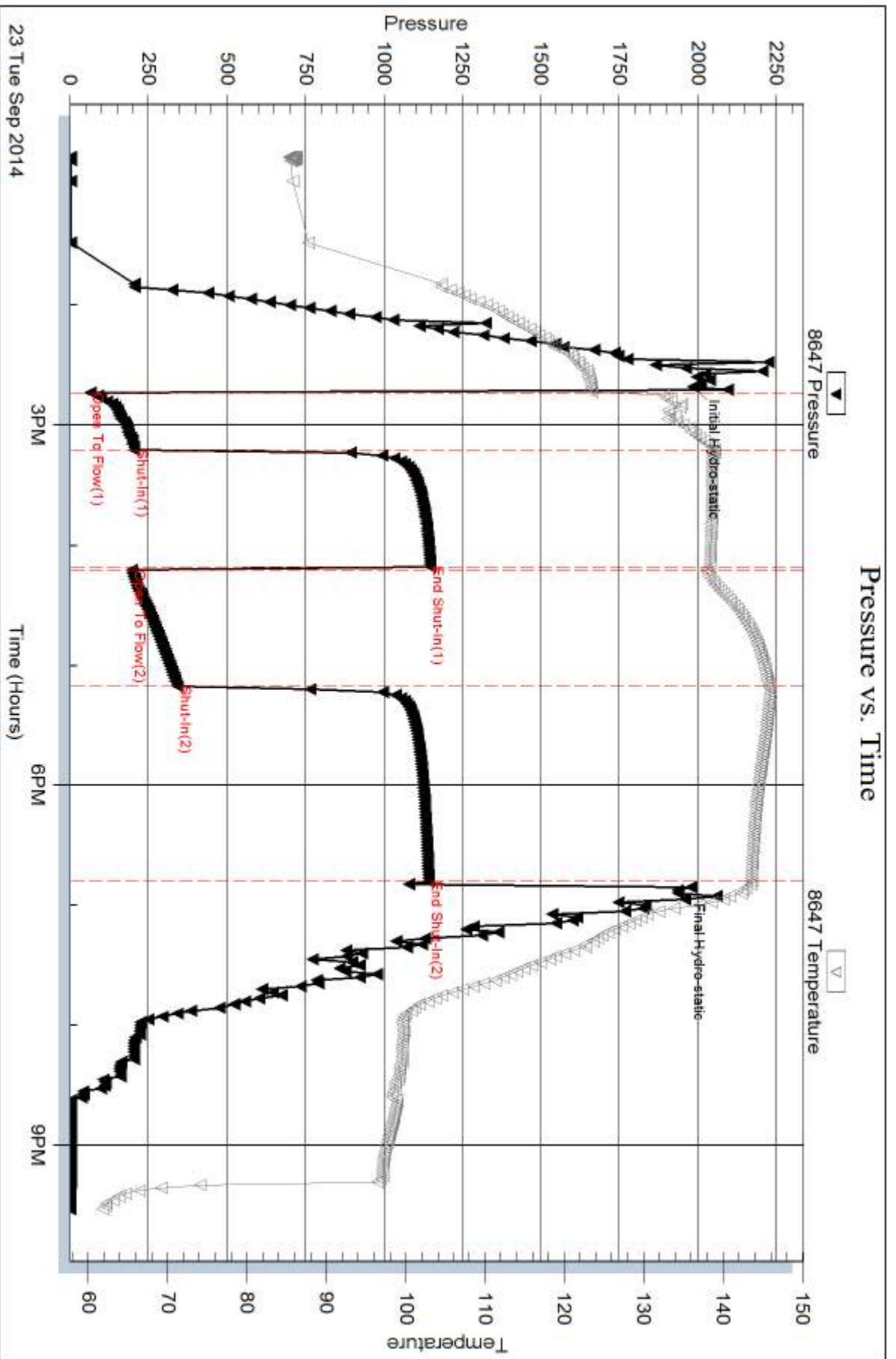
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Couldn't get a gravity do to oil being w ay to thick

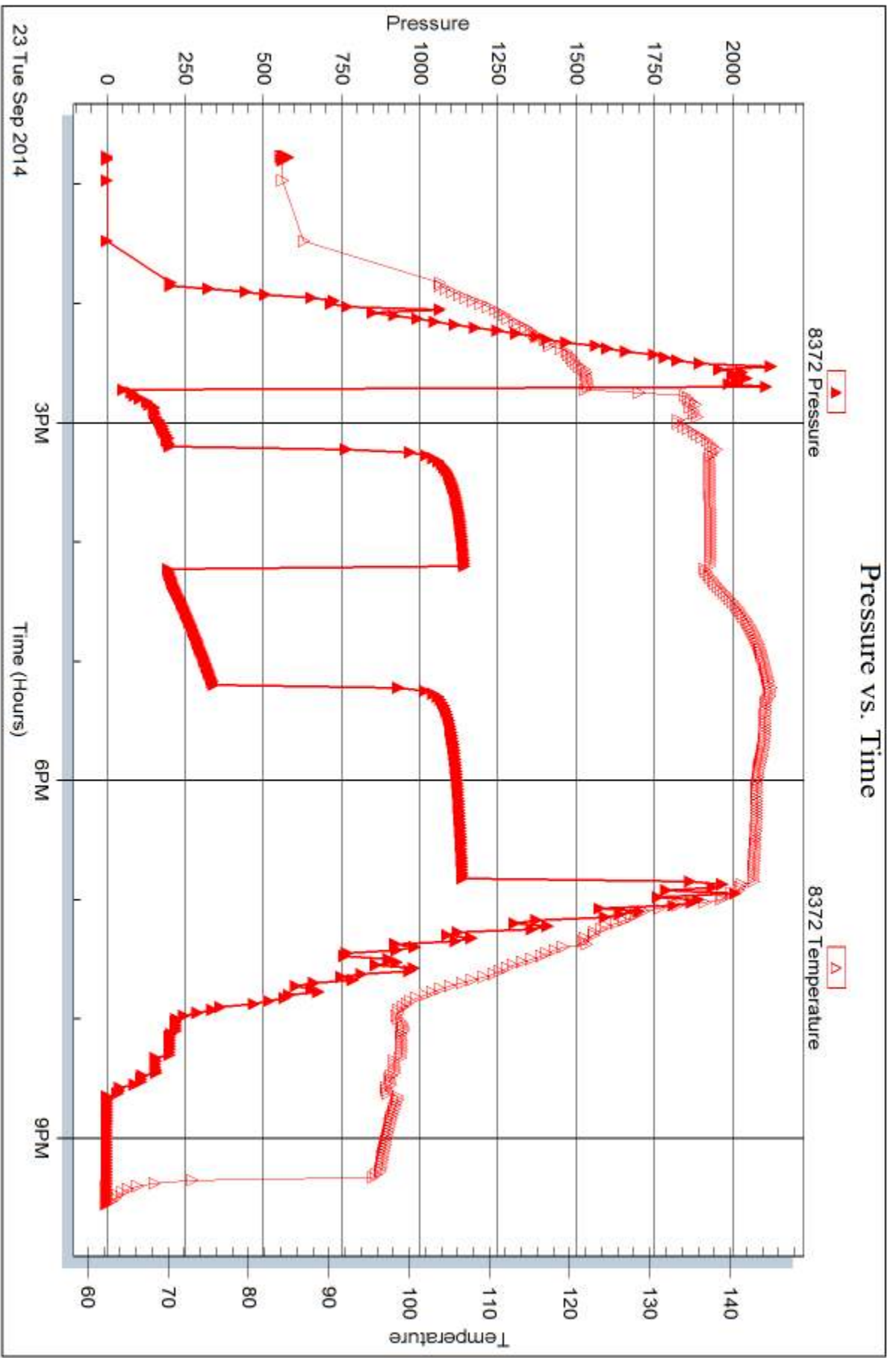


Serial #: 8372

Outside Murfin Drtg. Co., Inc.

Kacirek Trust #2-5

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 60769

Printed: 2014, 10.01 @ 15:56:29



DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg, Co., Inc.**

250 N. Water, STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Kacirek Trust #2-5

5-2s-36w Rawlins,KS

Start Date: 2014.09.24 @ 12:34:00

End Date: 2014.09.24 @ 20:58:30

Job Ticket #: 60770 DST #: 3

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

Printed: 2014.10.01 @ 15:56:02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60770

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.09.24 @ 12:34:00

GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:48:00

Time Test Ended: 20:58:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 48

Interval: 4110.00 ft (KB) To 4200.00 ft (KB) (TVD)

Reference Elevations: 3241.00 ft (KB)

Total Depth: 4200.00 ft (KB) (TVD)

3230.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8647

Inside

Press@RunDepth: 80.68 psig @ 4111.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.24

End Date:

2014.09.24

Last Calib.:

2014.09.24

Start Time: 12:34:01

End Time:

20:58:30

Time On Btm:

2014.09.24 @ 14:40:30

Time Off Btm:

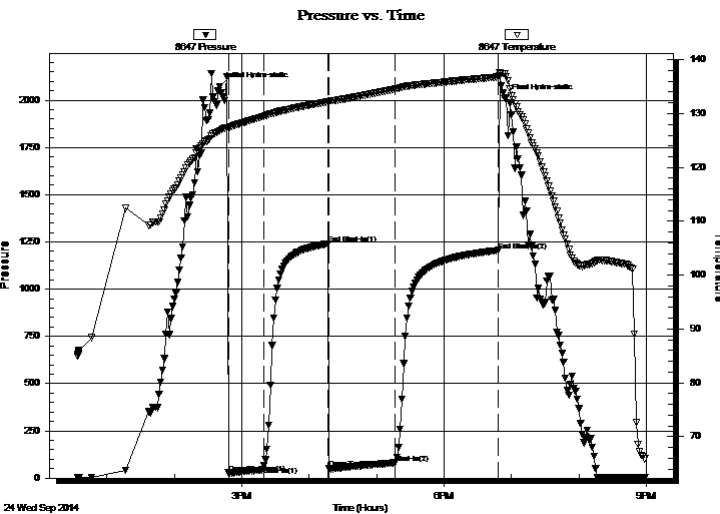
2014.09.24 @ 18:54:00

TEST COMMENT: 30 - IF - Opened w/ surface blow , built to 3 3/4"

60 - ISI - No Return

60 - FF - Blow built to B.o.B in 55 min.

90 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2070.27	126.83	Initial Hydro-static
8	28.01	127.35	Open To Flow (1)
39	64.58	129.49	Shut-In(1)
96	1239.66	132.19	End Shut-In(1)
98	50.31	132.28	Open To Flow (2)
156	80.68	134.56	Shut-In(2)
248	1204.68	136.82	End Shut-In(2)
254	2008.10	137.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	GOCM 40% m, 30% o, 30% g	0.39
100.00	100% CO	0.49

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60770

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.09.24 @ 12:34:00

Tool Information

Drill Pipe:	Length: 3907.00 ft	Diameter: 3.80 inches	Volume: 54.80 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 207.34 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 55.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.34 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4110.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	118.00 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			4083.00	
Shut In Tool	5.00			4088.00	
Hydraulic tool	5.00		Inside	4093.00	
Jars	5.00			4098.00	
Safety Joint	3.00			4101.00	
Packer	5.00			4106.00	28.00 Bottom Of Top Packer
Packer	4.00			4110.00	
Stubb	1.00			4111.00	
Recorder	0.00	8647	Inside	4111.00	
Recorder	0.00	8372	Outside	4111.00	
Perforations	22.00			4133.00	
Change Over Sub	1.00			4134.00	
Drill Pipe	62.00			4196.00	
Change Over Sub	1.00			4197.00	
Bullnose	3.00			4200.00	90.00 Bottom Packers & Anchor

Total Tool Length: 118.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60770

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.09.24 @ 12:34:00

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: 90.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	GOCM 40%m, 30%o, 30%g	0.393
100.00	100%CO	0.492

Total Length: 180.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0

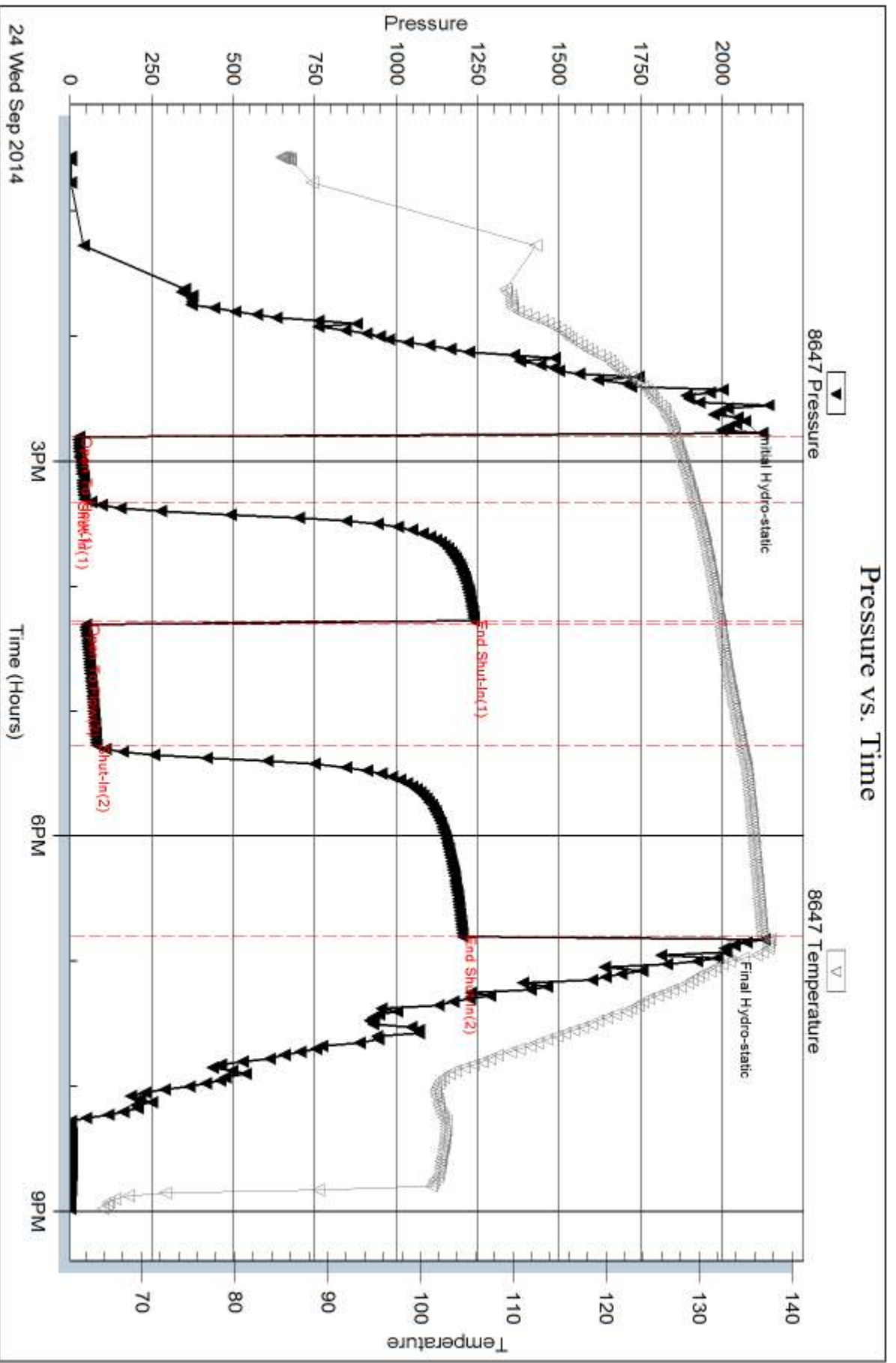
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 35 @ 82 Corrected = 37

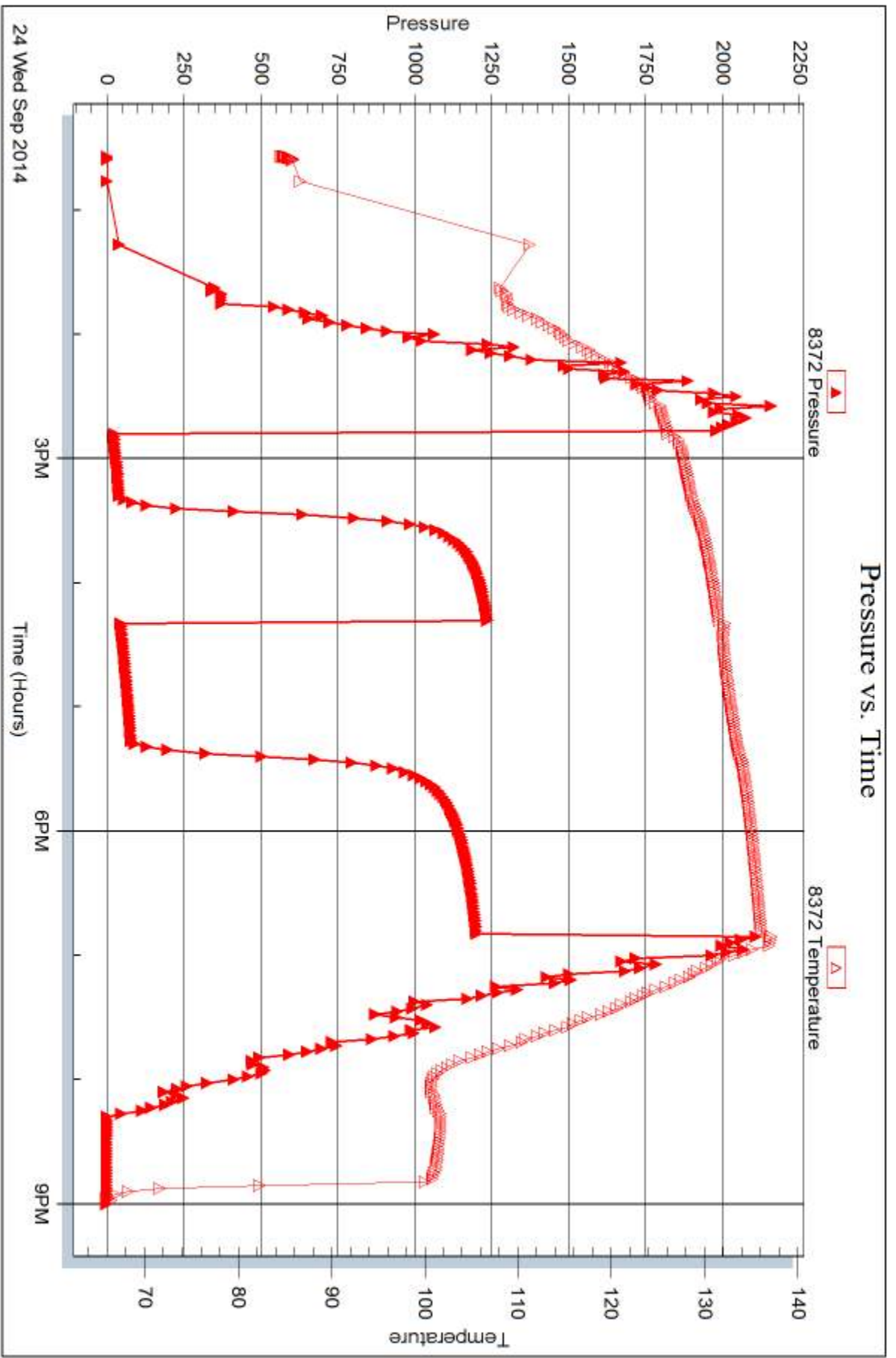


Serial #: 8372

Outside Murfin Dtg. Co., Inc.

Kacirek Trust #2.5

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 60770

Printed: 2014, 10.01 @ 15:56:03



DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg, Co., Inc.**

250 N. Water, STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Kacirek Trust #2-5

5-2s-36w Rawlins,KS

Start Date: 2014.09.25 @ 05:21:00

End Date: 2014.09.25 @ 12:43:30

Job Ticket #: 60771 DST #: 4

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

Printed: 2014.10.01 @ 15:55:37



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drlg, Co., Inc.
 250 N. Water, STE 300
 Wichita, KS 67202
 ATTN: Robert Hendrix

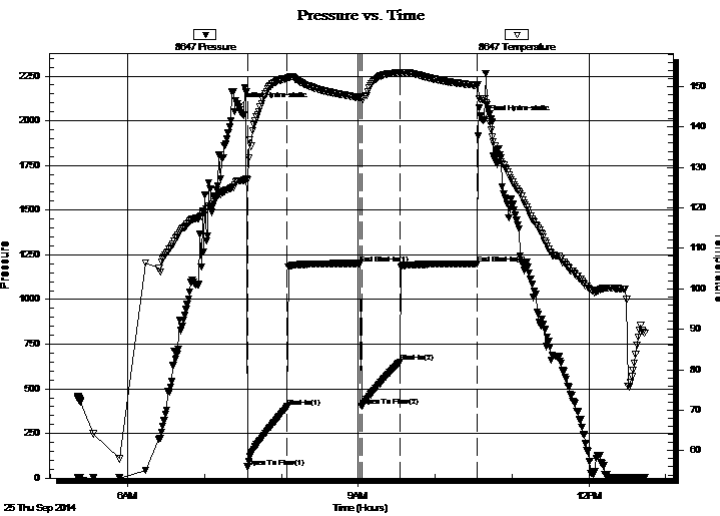
5-2s-36w Rawlins,KS
Kacirek Trust #2-5
 Job Ticket: 60771 **DST#: 4**
 Test Start: 2014.09.25 @ 05:21:00

GENERAL INFORMATION:

Formation: **LKC "D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:33:30
 Time Test Ended: 12:43:30
 Interval: **4189.00 ft (KB) To 4240.00 ft (KB) (TVD)**
 Total Depth: 4240.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Quintana
 Unit No: 48
 Reference Elevations: 3241.00 ft (KB)
 3230.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8647 Inside
 Press@RunDepth: 649.85 psig @ 4190.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.25 End Date: 2014.09.25 Last Calib.: 2014.09.25
 Start Time: 05:21:01 End Time: 12:43:30 Time On Btm: 2014.09.25 @ 07:26:30
 Time Off Btm: 2014.09.25 @ 10:36:30

TEST COMMENT: 30 - IF - Opened w/ surface blow , built to B.o.B in 5 min.
 60 - ISI - No Return
 30 - FF - Blow built to B.o.B in 5 min
 60 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2077.03	126.66	Initial Hydro-static
7	62.72	126.99	Open To Flow (1)
38	399.66	151.95	Shut-In(1)
95	1201.69	147.25	End Shut-In(1)
96	403.38	146.94	Open To Flow (2)
126	649.85	153.43	Shut-In(2)
186	1200.42	150.25	End Shut-In(2)
190	2006.52	146.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
798.00	MW 87%w , 13%m	9.31
578.00	MW 50%w , 50%m	8.11

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60771

DST#: 4

ATTN: Robert Hendrix

Test Start: 2014.09.25 @ 05:21:00

Tool Information

Drill Pipe:	Length: 3971.00 ft	Diameter: 3.80 inches	Volume: 55.70 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 207.34 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.34 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4189.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	79.00 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			4162.00	
Shut In Tool	5.00			4167.00	
Hydraulic tool	5.00		Inside	4172.00	
Jars	5.00			4177.00	
Safety Joint	3.00			4180.00	
Packer	5.00			4185.00	28.00 Bottom Of Top Packer
Packer	4.00			4189.00	
Stubb	1.00			4190.00	
Recorder	0.00	8647	Inside	4190.00	
Recorder	0.00	8372	Outside	4190.00	
Perforations	13.00			4203.00	
Change Over Sub	1.00			4204.00	
Drill Pipe	32.00			4236.00	
Change Over Sub	1.00			4237.00	
Bullnose	3.00			4240.00	51.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60771

DST#: 4

ATTN: Robert Hendrix

Test Start: 2014.09.25 @ 05:21:00

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: 63.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
798.00	MW 87%w , 13%m	9.305
578.00	MW 50%w , 50%m	8.108

Total Length: 1376.00 ft Total Volume: 17.413 bbf

Num Fluid Samples: 0

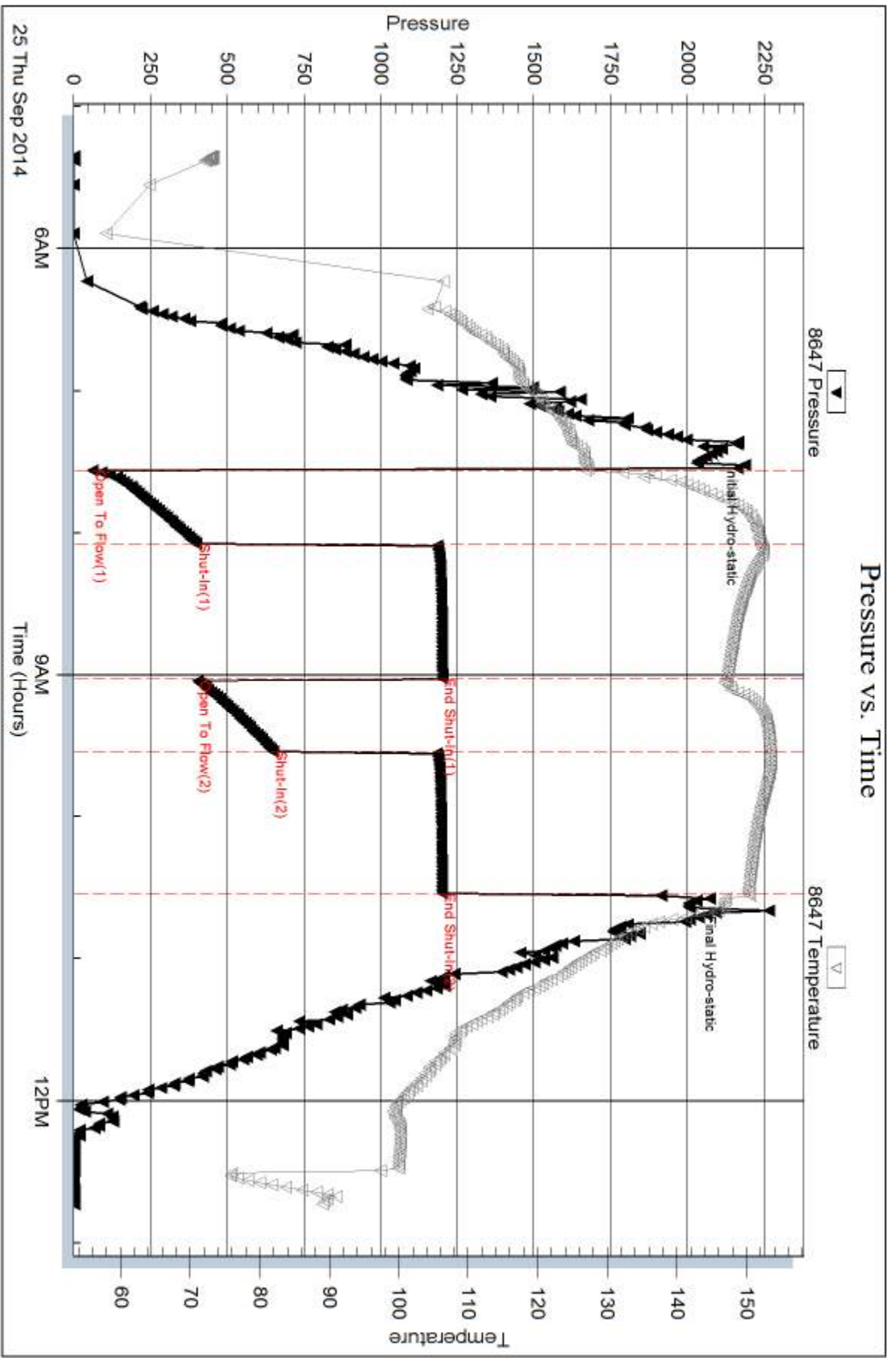
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .143 @ 82F Chlorides 32000ppm

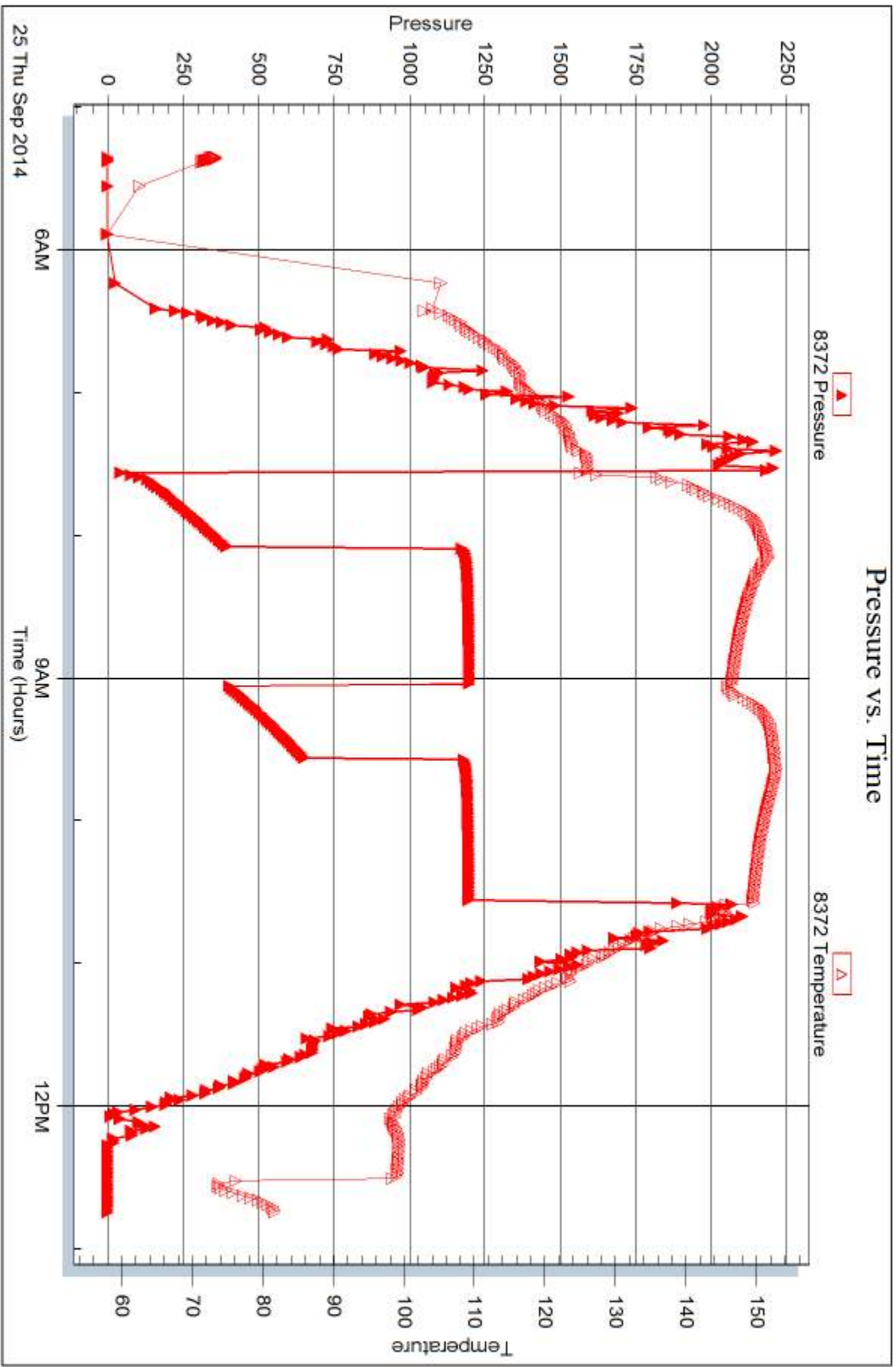


Serial #: 8372

Outside Murfin Dtg. Co., Inc.

Kacirek Trust #2-5

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 60771

Printed: 2014, 10.01 @ 15:55:39



DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg, Co., Inc.**

250 N. Water, STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Kacirek Trust #2-5

5-2s-36w Rawlins,KS

Start Date: 2014.09.25 @ 23:17:00

End Date: 2014.09.26 @ 07:27:00

Job Ticket #: 60772 DST #: 5

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

Printed: 2014.10.01 @ 15:55:16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg. Co., Inc.
250 N. Water, STE 300
Wichita, KS 67202
ATTN: Robert Hendrix

5-2s-36w Rawlins,KS
Kacirek Trust #2-5
Job Ticket: 60772 **DST#: 5**
Test Start: 2014.09.25 @ 23:17:00

GENERAL INFORMATION:

Formation: **LKC "G"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:41:30
Time Test Ended: 07:27:00
Interval: **4253.00 ft (KB) To 4310.00 ft (KB) (TVD)**
Total Depth: 4310.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Quintana
Unit No: 48
Reference Elevations: 3241.00 ft (KB)
3230.00 ft (CF)
KB to GR/CF: 11.00 ft

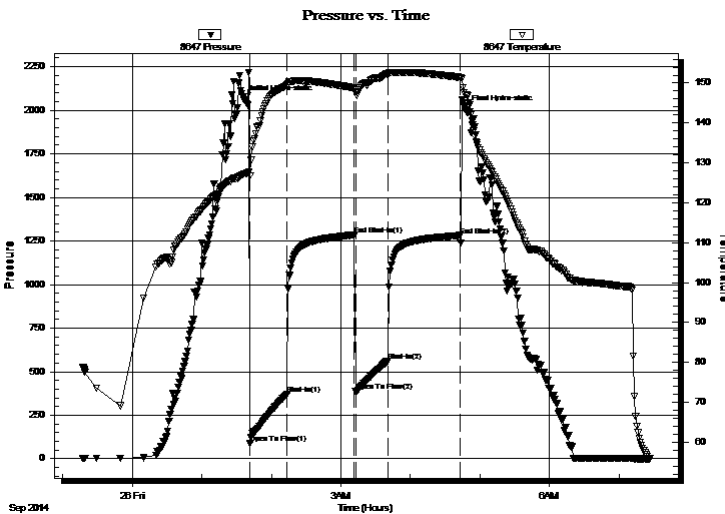
Serial #: 8647

Inside

Press@RunDepth: 562.14 psig @ 4254.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.25 End Date: 2014.09.26 Last Calib.: 2014.09.26
Start Time: 23:17:01 End Time: 07:27:00 Time On Btm: 2014.09.26 @ 01:36:30
Time Off Btm: 2014.09.26 @ 04:47:30

TEST COMMENT: 30 - IF - Opened w/ surface blow , built to B.o.B in 3 min.
60 - ISI - Return built to 10 1/2"
30 - FF - Blow built to B.o.B in 5 min.
60 - FSI - Return built to 1/2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2061.85	127.23	Initial Hydro-static
5	89.80	126.79	Open To Flow (1)
37	372.60	149.46	Shut-In(1)
95	1286.50	148.78	End Shut-In(1)
96	385.30	147.86	Open To Flow (2)
124	562.14	152.37	Shut-In(2)
186	1282.11	151.42	End Shut-In(2)
191	2002.33	147.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	GMCO 70%o, 20%m, 10%g	1.48
868.00	GO 85%o, 15%g	12.18
253.00	100%FO	3.55

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60772

DST#: 5

ATTN: Robert Hendrix

Test Start: 2014.09.25 @ 23:17:00

Tool Information

Drill Pipe:	Length: 4033.00 ft	Diameter: 3.80 inches	Volume: 56.57 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 207.34 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.34 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4253.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 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			4226.00	
Shut In Tool	5.00			4231.00	
Hydraulic tool	5.00		Inside	4236.00	
Jars	5.00			4241.00	
Safety Joint	3.00			4244.00	
Packer	5.00			4249.00	28.00 Bottom Of Top Packer
Packer	4.00			4253.00	
Stubb	1.00			4254.00	
Recorder	0.00	8647	Inside	4254.00	
Recorder	0.00	8372	Outside	4254.00	
Perforations	19.00			4273.00	
Change Over Sub	1.00			4274.00	
Drill Pipe	32.00			4306.00	
Change Over Sub	1.00			4307.00	
Bullnose	3.00			4310.00	57.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60772

DST#: 5

ATTN: Robert Hendrix

Test Start: 2014.09.25 @ 23:17:00

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	GMCO 70%o, 20%m, 10%g	1.478
868.00	GO 85%o, 15%g	12.176
253.00	100%FO	3.549

Total Length: 1361.00 ft Total Volume: 17.203 bbl

Num Fluid Samples: 0

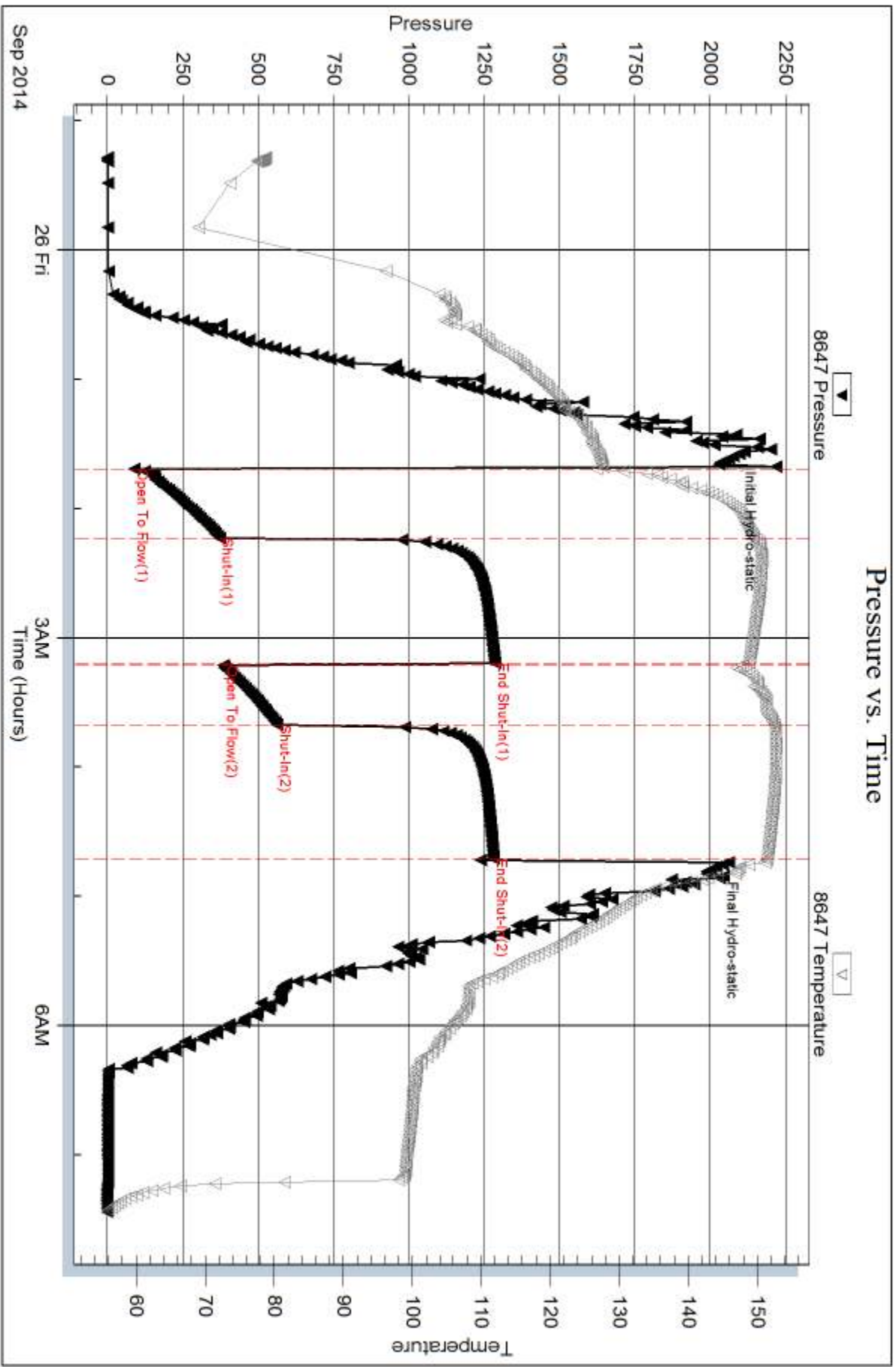
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity 31 @ 80 Corrected = 33

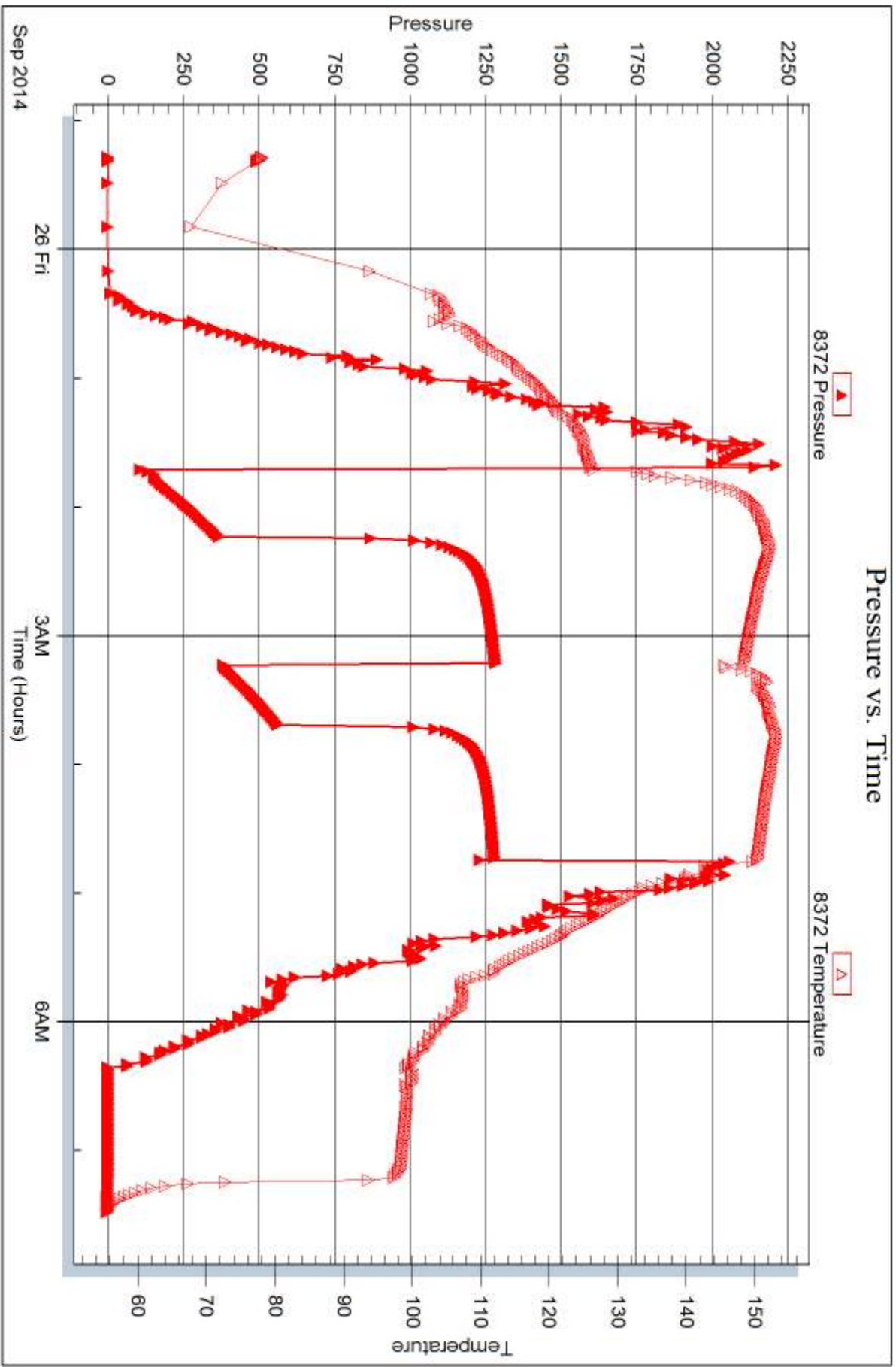


Serial #: 8372

Outside Murfin Dtg. Co., Inc.

Kacirek Trust #2-5

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg, Co., Inc.**

250 N. Water, STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Kacirek Trust #2-5

5-2s-36w Rawlins,KS

Start Date: 2014.09.26 @ 19:26:00

End Date: 2014.09.26 @ 23:54:30

Job Ticket #: 60773 DST #: 6

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

Printed: 2014.10.01 @ 15:54:47

Murfin Drlg, Co., Inc.
5-2s-36w Rawlins,KS
Kacirek Trust #2-5
DST # 6
LKC "H,I,J"
2014.09.26



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60773

DST#: 6

ATTN: Robert Hendrix

Test Start: 2014.09.26 @ 19:26:00

Tool Information

Drill Pipe:	Length: 4097.00 ft	Diameter: 3.80 inches	Volume: 57.47 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 207.34 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 58.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.34 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4308.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	104.00 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			4281.00	
Shut In Tool	5.00			4286.00	
Hydraulic tool	5.00		Inside	4291.00	
Jars	5.00			4296.00	
Safety Joint	3.00			4299.00	
Packer	5.00			4304.00	28.00 Bottom Of Top Packer
Packer	4.00			4308.00	
Stubb	1.00			4309.00	
Recorder	0.00	8647	Inside	4309.00	
Recorder	0.00	8372	Outside	4309.00	
Perforations	7.00			4316.00	
Change Over Sub	1.00			4317.00	
Drill Pipe	63.00			4380.00	
Change Over Sub	1.00			4381.00	
Bullnose	3.00			4384.00	76.00 Bottom Packers & Anchor

Total Tool Length: 104.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60773

DST#: 6

ATTN: Robert Hendrix

Test Start: 2014.09.26 @ 19:26:00

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: 73.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	100% mud w / oil in tool	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Misrun

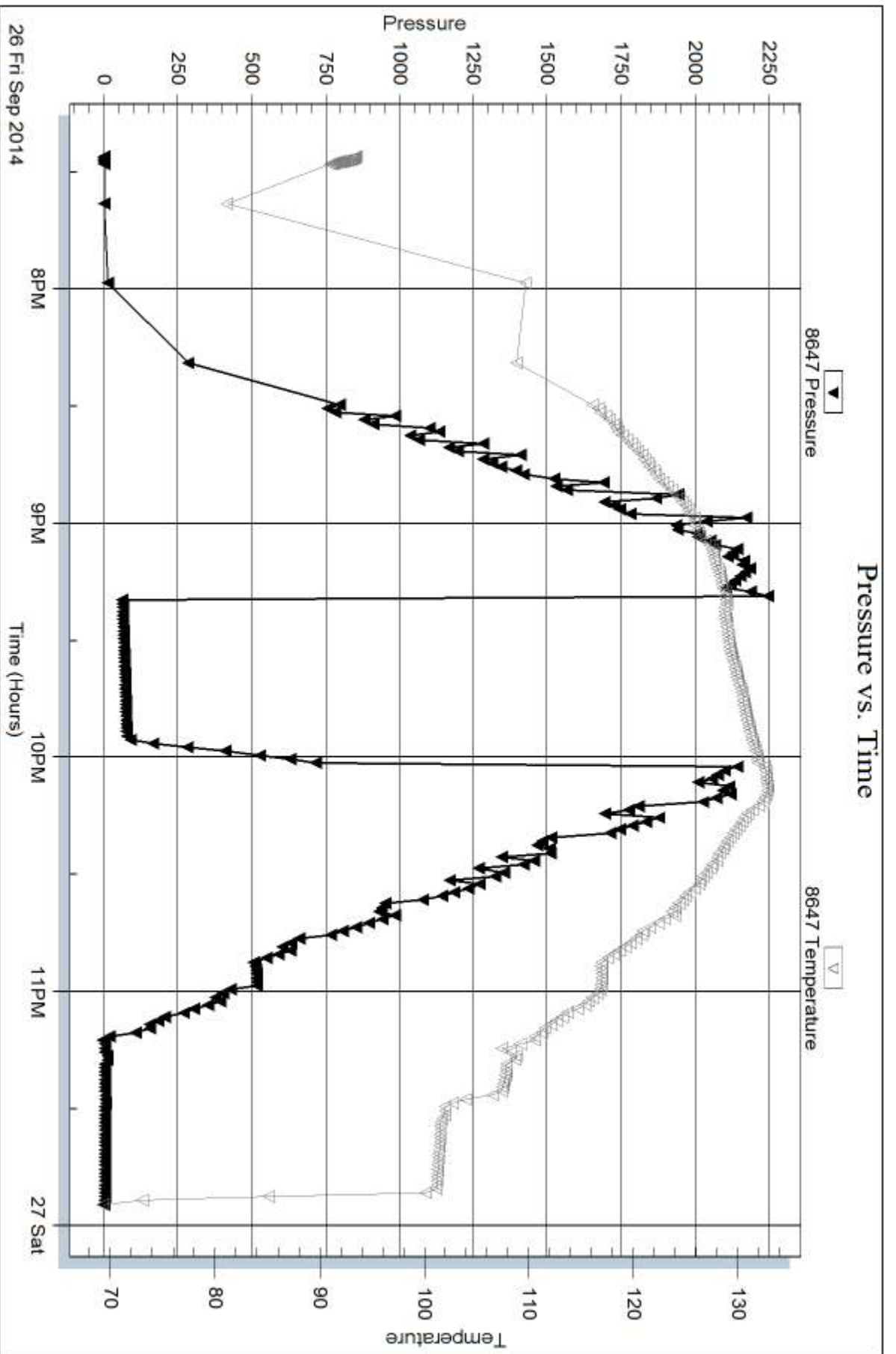
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Inside

Murfin Dtg. Co., Inc.

Kacirek Trust #2-5

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 60773

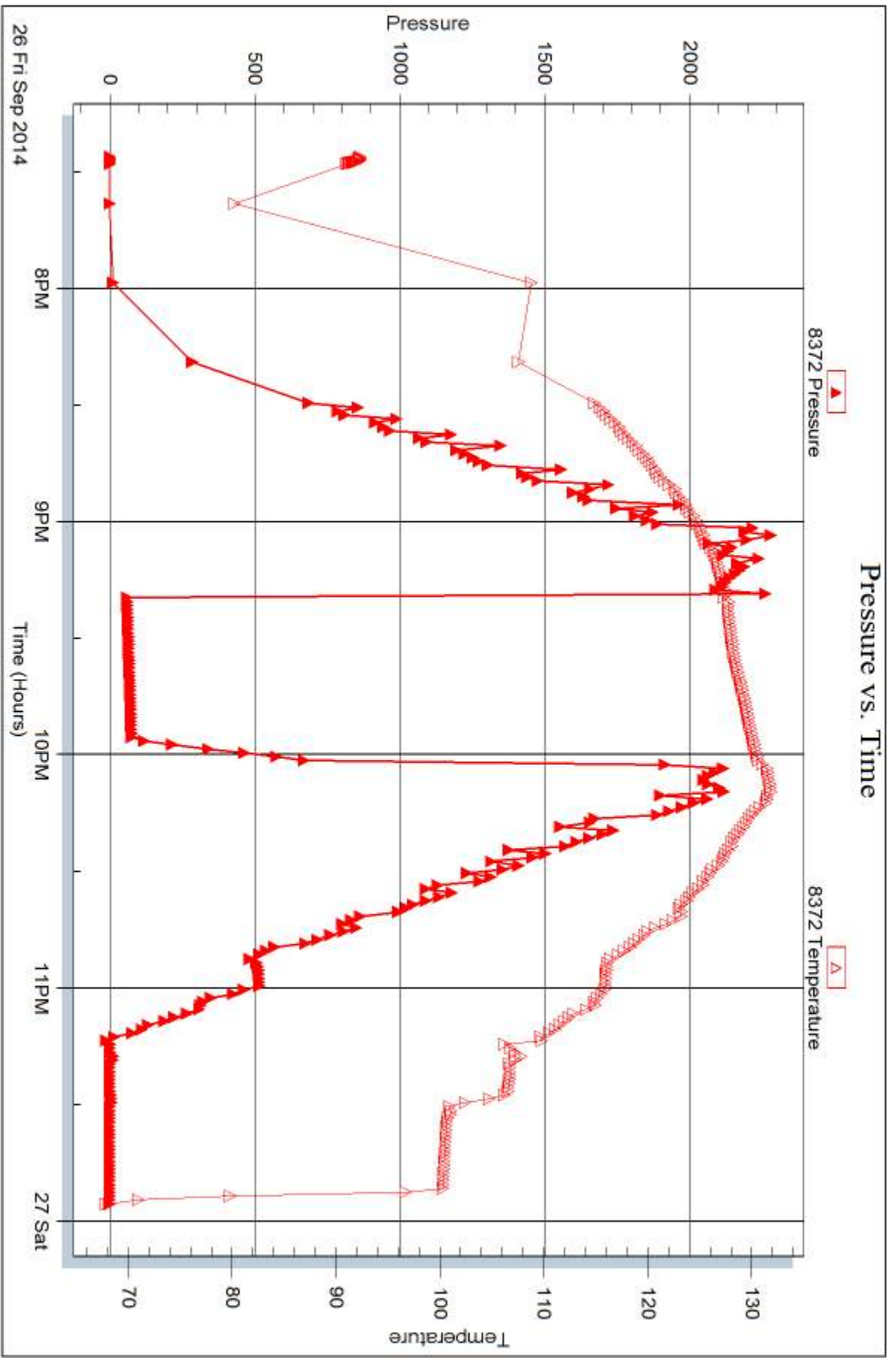
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Serial #: 8372

Outside Murfin Dtg. Co., Inc.

Kacirek Trust #2-5

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 60773

Printed: 2014.10.01 @ 15:54:48



DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg, Co., Inc.**

250 N. Water, STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Kacirek Trust #2-5

5-2s-36w Rawlins,KS

Start Date: 2014.09.27 @ 12:17:00

End Date: 2014.09.28 @ 04:52:30

Job Ticket #: 60774 DST #: 7

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

Printed: 2014.10.01 @ 15:53:51

Murfin Drlg, Co., Inc.
5-2s-36w Rawlins,KS
Kacirek Trust #2-5
DST # 7
LKC "H,I,J"
2014.09.27



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60774

DST#: 7

ATTN: Robert Hendrix

Test Start: 2014.09.27 @ 12:17:00

GENERAL INFORMATION:

Formation: **LKC "H,I,J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:33:30

Time Test Ended: 04:52:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 48

Interval: 4326.00 ft (KB) To 4384.00 ft (KB) (TVD)

Reference Elevations: 3241.00 ft (KB)

Total Depth: 4384.00 ft (KB) (TVD)

3230.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8372 Outside

Press@RunDepth: 575.97 psig @ 4327.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.27 End Date: 2014.09.27

Last Calib.: 2014.09.27

Start Time: 00:17:01 End Time: 16:52:30

Time On Btm: 2014.09.27 @ 11:25:30

Time Off Btm: 2014.09.27 @ 14:39:30

TEST COMMENT: 30 - IF - Opened w/ surface blow , did not build

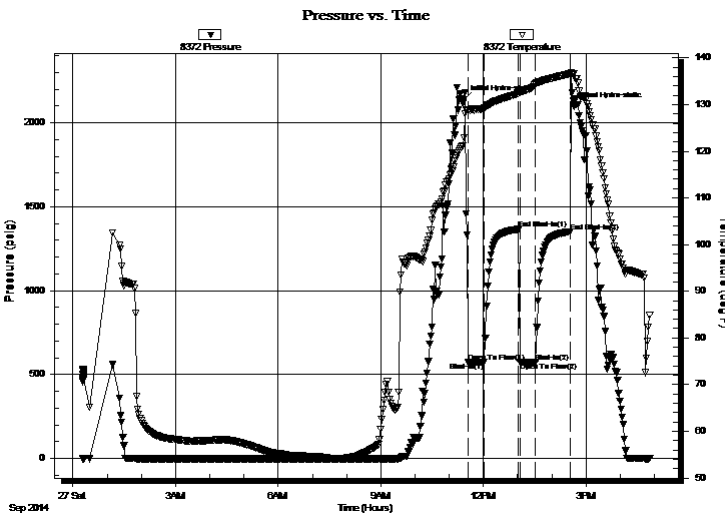
60 - ISI - No Return

30 - FF - No Blow

60 - FSI - No Return

MISRUN

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2139.17	122.92	Initial Hydro-static
8	575.53	128.71	Open To Flow (1)
36	575.79	129.23	Shut-In(1)
96	1365.62	132.36	End Shut-In(1)
98	575.80	132.53	Open To Flow (2)
126	575.97	134.41	Shut-In(2)
186	1351.60	136.60	End Shut-In(2)
194	2097.23	136.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1056.00	100% mud	12.92

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60774

DST#: 7

ATTN: Robert Hendrix

Test Start: 2014.09.27 @ 12:17:00

Tool Information

Drill Pipe:	Length: 4122.00 ft	Diameter: 3.80 inches	Volume: 57.82 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 207.34 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.34 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4326.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4299.00	
Shut In Tool	5.00			4304.00	
Hydraulic tool	5.00		Inside	4309.00	
Jars	5.00			4314.00	
Safety Joint	3.00			4317.00	
Packer	5.00			4322.00	28.00 Bottom Of Top Packer
Packer	4.00			4326.00	
Stubb	1.00			4327.00	
Recorder	0.00	8647	Inside	4327.00	
Recorder	0.00	8372	Outside	4327.00	
Perforations	20.00			4347.00	
Change Over Sub	1.00			4348.00	
Drill Pipe	32.00			4380.00	
Change Over Sub	1.00			4381.00	
Bullnose	3.00			4384.00	58.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg, Co., Inc.

5-2s-36w Rawlins,KS

250 N. Water, STE 300
Wichita, KS 67202

Kacirek Trust #2-5

Job Ticket: 60774

DST#: 7

ATTN: Robert Hendrix

Test Start: 2014.09.27 @ 12:17:00

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: 73.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1056.00	100%mud	12.924

Total Length: 1056.00 ft Total Volume: 12.924 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

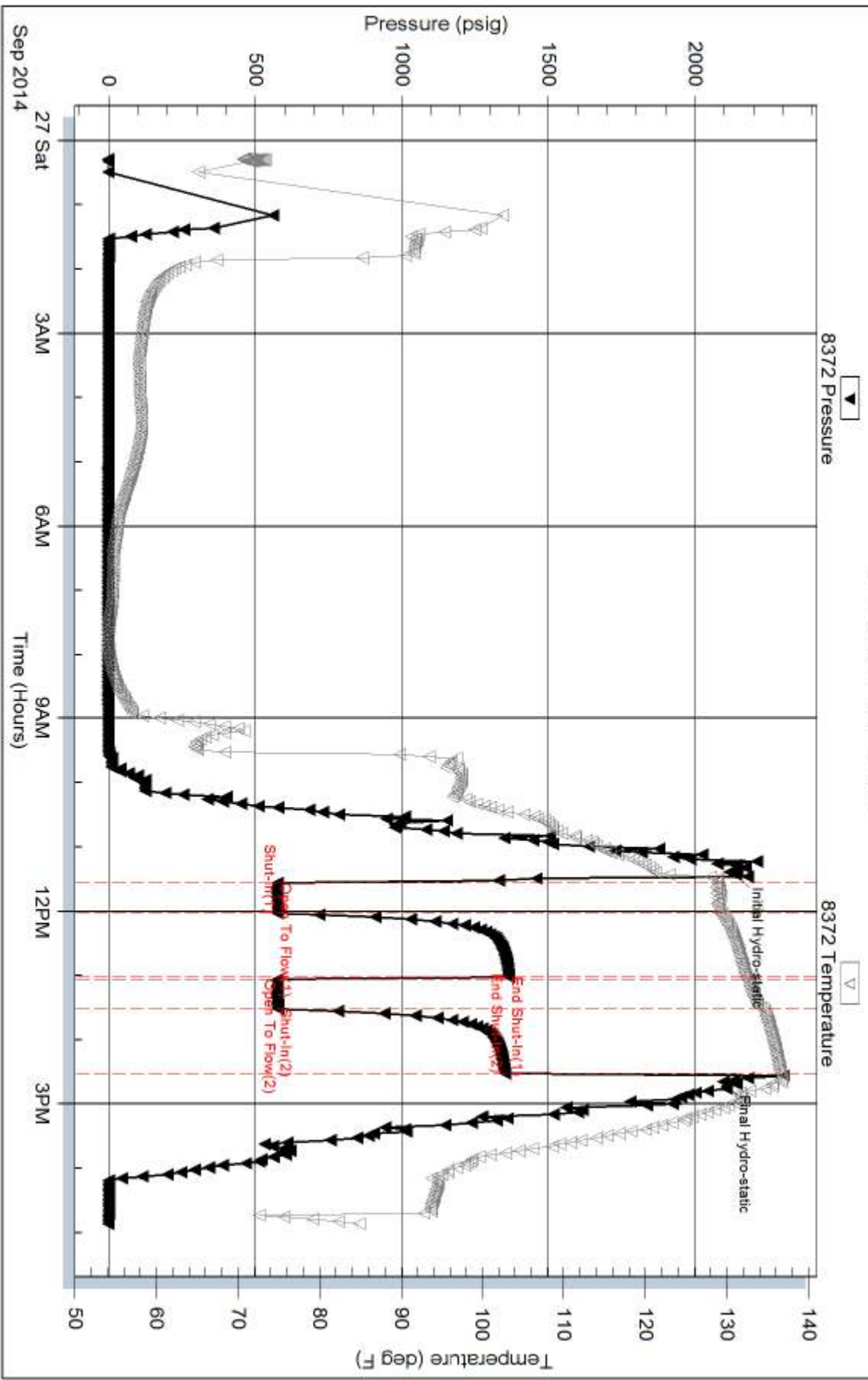
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: MISRUN

Pressure vs. Time



Serial #: 8647

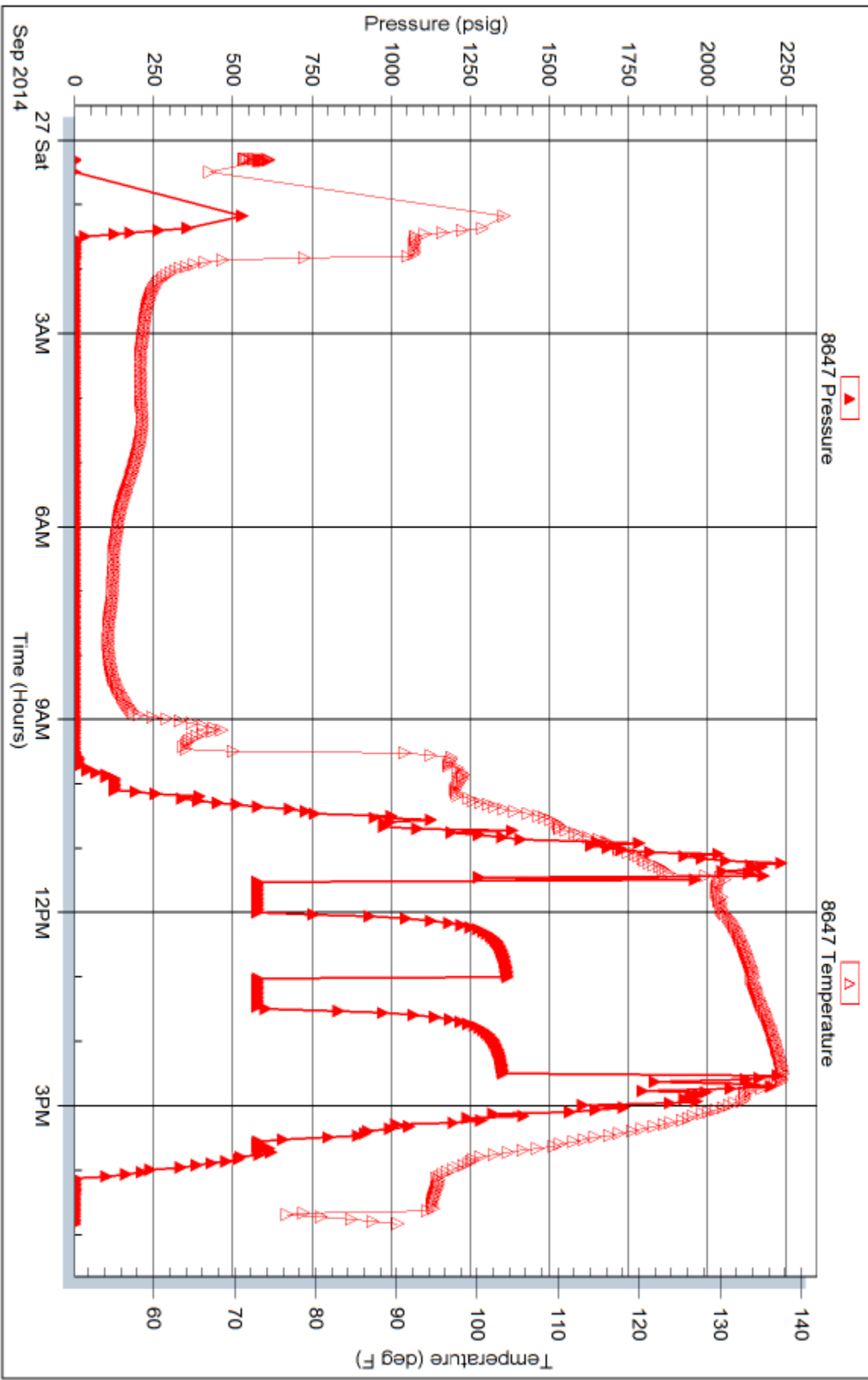
Inside

Murfin Dtg. Co., Inc.

Kacirek Trust #2-5

DST Test Number: 7

Pressure vs. Time





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **60768**

Well Name & No. Kacirek Trust #2-5 Test No. 1 Date 9-22-14
 Company Murfin Drilling Co., Inc. Elevation 3241 KB 3230 GL
 Address 250 N. Water, STE 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 5 Twp. 2S Rge. 36W Co. Rawlins State KS

Interval Tested 3884-3949 Zone Tested Stotler
 Anchor Length 65' Drill Pipe Run 3655 Mud Wt. 9.2
 Top Packer Depth 3879 Drill Collars Run 207.34 Vis 76
 Bottom Packer Depth 3884 Wt. Pipe Run - WL 9.2
 Total Depth 3949 Chlorides 600 ppm System LCM 8

Blow Description IF-Opened w/ surface blow, didn't build
ISI- No Return
FF- No Blow
FSI- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</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 2 BHT 133 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2011 Test 1150 T-On Location 1:52 PM
 (B) First Initial Flow 27 Jars 250 T-Started 2:16 PM
 (C) First Final Flow 25 Safety Joint 75 T-Open 4:54 PM
 (D) Initial Shut-In 166 Circ Sub _____ T-Pulled 7:54 PM
 (E) Second Initial Flow 30 Hourly Standby _____ T-Out 9:54 PM
 (F) Second Final Flow 45 Mileage 110 R.T. 170.50 Comments _____
 (G) Final Shut-In 121 Sampler _____
 (H) Final Hydrostatic 1934 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1645.50
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1645.50

Approved By [Signature] Our Representative Bud Oit

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **60769**

Well Name & No. Kacirek Trust #2-5 Test No. 2 Date 9-23-14
 Company Murfin Drlg. Co., Inc. Elevation 3241 KB 3230 GL
 Address 250 N. Water, STE 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 5 Twp. 2S Rge. 36W Co. Rawlins State KS

Interval Tested 4033 - 4087 Zone Tested Oread
 Anchor Length 54' Drill Pipe Run 3814 Mud Wt. 9.2
 Top Packer Depth 4028 Drill Collars Run 207.34 Vis 76
 Bottom Packer Depth 4033 Wt. Pipe Run — WL 9.2
 Total Depth 4087 Chlorides 600 ppm System LCM 8
 Blow Description IF - Opened w/ surface blow, built to B.o.B in 13 min.
ISI - No Return
FF Blow built to B.o.B in 15 min.
FSI - Return built to 3 in.

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>oil</u>		<u>100</u>		
<u>248</u>	<u>OCM</u>		<u>20</u>		<u>80</u>
<u>184</u>	<u>WOCM</u>		<u>5</u>	<u>75</u>	<u>20</u>
<u>180</u>	<u>MW</u>			<u>90</u>	<u>10</u>

Rec Total 702 BHT _____ Gravity N/A API RW 116 @ 85 °F Chlorides 43000 ppm

(A) Initial Hydrostatic 1985 Test 1250 T-On Location 12:35 PM
 (B) First Initial Flow 64 Jars 250 T-Started 12:46 PM
 (C) First Final Flow 204 Safety Joint 75 T-Open 2:44 PM
 (D) Initial Shut-In 1146 Circ Sub _____ T-Pulled 6:44 PM
 (E) Second Initial Flow 197 Hourly Standby _____ T-Out 9:34 PM
 (F) Second Final Flow 341 Mileage 110 R.T. 170.50 Comments _____
 (G) Final Shut-In 1140 Sampler _____
 (H) Final Hydrostatic 1936 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1745.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1745.50

Approved By R. P. [Signature] Our Representative B. [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. **60770**

Well Name & No. Kacirek Trust #2-5 Test No. 3 Date 9-24-14
 Company Murfin Drlg. Co., Inc. Elevation 3241 KB 3230 GL
 Address 250 N. Water, STE 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 5 Twp. 25 Rge. 36w Co. Rawlins State KS

Interval Tested 4110 - 4200 Zone Tested Lansing
 Anchor Length 90' Drill Pipe Run 3907 Mud Wt. 9.1
 Top Packer Depth 4105 Drill Collars Run 207.34 Vis 90
 Bottom Packer Depth 4110 Wt. Pipe Run — WL 6.8
 Total Depth 4200 Chlorides 600 ppm System LCM 8

Blow Description IF - Opened w/ surface blow, built to 3 3/4"
ISI - No Return
FF - Blow built to B.O.B in 55 min.
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>Co</u>		<u>100</u>		
<u>80</u>	<u>60cm</u>	<u>30%</u>	<u>30</u>		<u>40</u>

Rec Total 180 BHT 136 Gravity 37 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 2070 Test 1250 T-On Location 12:24 PM
 (B) First Initial Flow 28 Jars 250 T-Started 12:34 PM
 (C) First Final Flow 64 Safety Joint 75 T-Open 2:49 PM
 (D) Initial Shut-In 1239 Circ Sub _____ T-Pulled 6:49 PM
 (E) Second Initial Flow 50 Hourly Standby _____ T-Out 9:01 PM
 (F) Second Final Flow 86 Mileage 110 R.T 170.50 Comments _____
 (G) Final Shut-In 1204 Sampler _____
 (H) Final Hydrostatic 2008 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 60 Extra Packer _____ Extra Copies _____
 Final Flow 60 Extra Recorder _____ Sub Total 0
 Final Shut-In 90 Day Standby _____ Total 1745.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1745.50

Approved By R.D. Wiley Our Representative Burd QT

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **60771**

Well Name & No. Kacirek Trust #2-5 Test No. 4 Date 9-25-14
 Company Murfin Drlg. Co., Inc. Elevation 3241 KB 3230 GL
 Address 250 N. Water, STE 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 5 Twp. 2S Rge. 36W Co. Rawlins State KS

Interval Tested 4189-4240 Zone Tested LKC "D"
 Anchor Length 51' Drill Pipe Run 3971 Mud Wt. 9.3
 Top Packer Depth 4184 Drill Collars Run 207.34 Vis 63
 Bottom Packer Depth 4189 Wt. Pipe Run — WL 7.6
 Total Depth 4240 Chlorides 700 ppm System LCM 10

Blow Description IF- Opened w/ surface blow, built to B.O.B in 5 min
ISI- No Return
FF- Blow built to B.O.B in 5 min.
FSI- No Return

Rec	Feet of	oil in tool	%gas	%oil	%water	%mud
<u>578</u>	<u>MW</u>	<u>oil in tool</u>			<u>50%</u>	<u>50%</u>
<u>798</u>	<u>MW</u>				<u>87%</u>	<u>13%</u>

Rec Total 1376 BHT 150 Gravity — API RW .143 @ 82 °F Chlorides 32,000 ppm

(A) Initial Hydrostatic 2077 Test 1250 T-On Location 4:50 AM
 (B) First Initial Flow 62 Jars 250 T-Started 5:21 AM
 (C) First Final Flow 319 Safety Joint 75 T-Open 7:35 AM
 (D) Initial Shut-In 1201 Circ Sub — T-Pulled 10:35 AM
 (E) Second Initial Flow 403 Hourly Standby — T-Out 12:41 PM
 (F) Second Final Flow 649 Mileage 110 R.T. 170.50 Comments —
 (G) Final Shut-In 1200 Sampler —
 (H) Final Hydrostatic 2006 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder — Sub Total 0
 Day Standby — Total 1745.50
 Accessibility — MP/DST Disc't —
 Sub Total 1745.50

Approved By [Signature] Our Representative Bruce Oit

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **60772**

4/10

Well Name & No. Kacirek^{Trust} #2-5 Test No. 5 Date 9-25-14
 Company Murfin Drlg. Co., Inc. Elevation 3241 KB 3230 GL
 Address 250 N. Water, STE 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 5 Twp. 2S Rge. 36w Co. Rawlins State KS

Interval Tested 4253-4310 Zone Tested LKC "G"
 Anchor Length 57' Drill Pipe Run 4033 Mud Wt. 9.3
 Top Packer Depth 4248 Drill Collars Run 207.34 Vis 67
 Bottom Packer Depth 4253 Wt. Pipe Run — WL 7.2
 Total Depth 4310 Chlorides 800 ppm System LCM 10

Blow Description IF-Opened w/ surface blow. built to B.o.B in 3 min.
ISI- Return built to 10 1/2"
FF- Blow built to B.o.B in 5 min.
FSI- Return built to 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>253</u>	<u>EO</u>		<u>100</u>		
<u>868</u>	<u>60</u>	<u>15</u>	<u>85</u>		
<u>240</u>	<u>GMCO</u>	<u>10</u>	<u>70</u>		<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1361 BHT 151 Gravity 33 API RW @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2061 Test 1250 T-On Location 10:56 PM
 (B) First Initial Flow 89 Jars 250 T-Started 11:17 PM
 (C) First Final Flow 372 Safety Joint 75 T-Open 1:43 AM
 (D) Initial Shut-In 1286 Circ Sub _____ T-Pulled 4:43 AM
 (E) Second Initial Flow 385 Hourly Standby _____ T-Out 7:29 AM
 (F) Second Final Flow 562 Mileage 110 R.T. 170.50 Comments _____
 (G) Final Shut-In 1282 Sampler _____
 (H) Final Hydrostatic 2062 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1745.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1745.50

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60

Approved By RKD. [Signature] Our Representative Brian [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60773

Well Name & No. Kacirek Trust #2-S Test No. 6 Date 9-26-14
 Company Murfin Drlg. Co., Inc. Elevation 3241 KB 3230 GL
 Address 250 N. Water, STE 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 5 Twp. 2S Rge. 36W Co. Rawlins State KS

Interval Tested 4308-4384 Zone Tested LKC "H.I.J"
 Anchor Length 76' Drill Pipe Run 4097 Mud Wt. 9.2
 Top Packer Depth 4303 Drill Collars Run 207.34 Vis 73
 Bottom Packer Depth 4308 Wt. Pipe Run — WL 7.6
 Total Depth 4384 Chlorides 700 ppm System LCM 8

Blow Description IF-
ISI-
FF-
FSI-

MIS RUN

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>Mud w/ oil in tool</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 70 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic Test 1050 T-On Location 6:57 PM
 (B) First Initial Flow Jars 250 T-Started 7:26 PM
 (C) First Final Flow Safety Joint 75 T-Open ~~10:06 PM~~
 (D) Initial Shut-In Circ Sub _____ T-Pulled 10:06 PM
 (E) Second Initial Flow Hourly Standby _____ T-Out 11:56 PM
 (F) Second Final Flow Mileage 110 R.T. 170.50 Comments _____
 (G) Final Shut-In Sampler _____
 (H) Final Hydrostatic Straddle _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 60 Ruined Packer 320
 Final Flow — Extra Copies _____
 Final Shut-In — Extra Recorder _____
 Sub Total 0
 Total 1865.50
 MP/DST Disc't _____
 Sub Total 1545.50

Approved By _____ Our Representative Burditt

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **60774**

Well Name & No. Kacirek Trust #2-5 Test No. 7 Date 9-26-14
 Company Murfin Drlg. Co., Inc. Elevation 3241 KB 3230 GL
 Address 250 N. Water, STE 350 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 5 Twp. 2s Rge. 36w Co. Rawlins State KS

Interval Tested 4326-4384 Zone Tested LKC "H,I,J"
 Anchor Length 58' Drill Pipe Run 4122 Mud Wt. 9.2
 Top Packer Depth 4321 Drill Collars Run 207.34 Vis 73
 Bottom Packer Depth 4326 Wt. Pipe Run - WL 7.6
 Total Depth 4384 Chlorides 700 ppm System LCM 8

Blow Description IF-Opened w/ surface blow, did not build
ISI- No Return
FF- No Blow
FSI- No Return

MIS RUN

Rec	Feet of	%gas	%oil	%water	%mud
<u>1056</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 _____ BHT 136 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2139 Test 1050 T-On Location 6:57 PM
 (B) First Initial Flow 575 Jars 250 T-Started 12:17 AM
 (C) First Final Flow 575 Safety Joint 75 T-Open 11:33 AM
 (D) Initial Shut-In 1365 Circ Sub _____ T-Pulled 2:33 PM
 (E) Second Initial Flow 575 Hourly Standby _____ T-Out 4:50 PM
 (F) Second Final Flow 575 Mileage 10. R.T. Comments _____
 (G) Final Shut-In 1351 Sampler _____
 (H) Final Hydrostatic 2097 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1375
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1375

Approved By [Signature] Our Representative Bud Q.T.

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Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: **Murfin Drilling Co. Inc.**

LEASE: **Kacirek Trust #2-5**

FIELD: **Brumum Northeast**

LOCATION: **2310'fsl & 600'fwi**

SEC: **5** TWP: **2S** RGE: **36W**

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

CONTRACTOR: **Murfin Drilling Co. Inc. Rig #2**

SPUD: **9/19/2014** COMP: **9/29/2014**

RTD: **4/7/70'** LTD: **4/7/70'**

MUD UP: **3/251'** TYPE MUD: **Chemical**

SAMPLES SAVED FROM: **3520' TO 11D**

DRILLING TIME KEPT FROM: **3520' TO 11D**

SAMPLES EXAMINED FROM: **3520' TO 11D**

GEOLOGICAL SUPERVISION FROM: **3520'**

GEOLOGIST ON WELL: **Robert D. Hendrix**

GEOLOGIST: **Robert D. Hendrix**

FORMER TOPS: **Robert D. Hendrix**

FORMER TOPS: **Robert D. Hendrix**

FORMER TOPS: **Robert D. Hendrix**

FORMER TOPS: **Robert D. Hendrix**

FORMER TOPS: **Robert D. Hendrix**

FORMER TOPS: **Robert D. Hendrix**

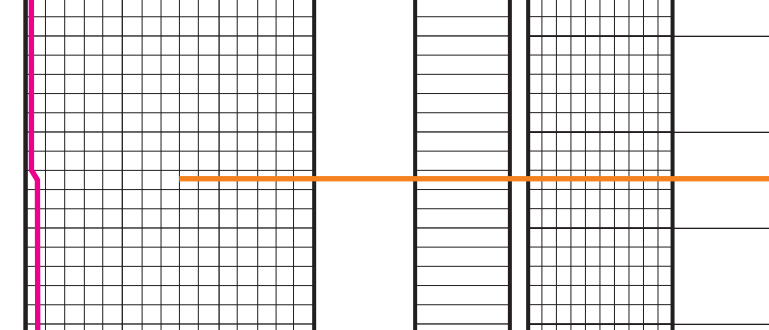
FORMER TOPS: **Robert D. Hendrix**

FORMER TOPS: **Robert D. Hendrix**

ELEVATIONS
KB 3241'

Measurements Are All From **Kelly Busting**
CASING CONDUCTOR SURFACE: **8.510" @ 365'**
PRODUCTION: **5.112"**

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anhydrite	3125' (+104)	3615' (+378)
Neva	3619' (+378)	3615' (+378)
Topoka	3693' (+712)	3648' (+707)
Ored	4081' (+840)	4077' (+836)
Lansing	4167' (+926)	4163' (+922)
Stark Shale	4385' (+1143)	4383' (+1142)
BKC	4431' (+1189)	4433' (+1192)
Pawnee	4561' (+1320)	4561' (+1320)
Cherokee Shale	4636' (+1395)	4636' (+1395)



REMARKS:

DEPTH	LITHOLOGY	SAMPLE DESCRIPTION	REMARKS
3100			Anhydrite 3125 (+116)
50			Base Anhydrite 3160 (+81)
3200			bit trip at 3503' strap 2.42' short to board
3550		Sandstone: white, fn gr, well sorted, md, friable, calcareously, no vis por Shale: red, v-sandy	Geologist on location 3523' at 11:50 am 9/21/2014
3600		Sandstone: white, vfn gr, well sorted, subrd, semi-friable, calcareously, no vis por Shale: red, gray, green, brown, silty, chalky Shale: red, gray, silty, v-sandy	
3650		Shale: red, gray, green, brown, silty, sandy	
3660		Shale: red, gray, silty, v-sandy	
3670		Limestone: white, mxln, chalky, oolitic, fossiliferous, no vis por, 5% sample black flaky dead oil stain, nfo, no odor Shale: red, gray, green, waxy, silty	Neva 3615 (-374)
50		Shale: red, brown, silty, sandy	
3700		Sandstone: gray to green, hard, biotitic, fgm, subrd, mod sorted, calcareous, no vis por Shale: red, brown, silty, sandy	Red Eagle 3680 (-439)
3750		Limestone: white to tan, fxdn, cherty (orange), fossiliferous, no vis por, ns Shale: red, brown, gray, silty	
3800		Shale: red, brown, gray, silty	
3850		Limestone: tan to gray, f-mxn, sil, chalky, sil cherty, oolitic, fossiliferous, no vis por Limestone: tan, fxdn, granular, sil fossiliferous, no vis por, ns Shale: gray, green, silty	Foraker 3729 (-488)
50		Limestone: tan, fxdn, sil fossiliferous, no vis por Shale: gray, red, black	
3900		Limestone: tan, fxdn, sil fossiliferous, no vis por Shale: gray, red, black	
3950		Limestone: tan to white, fxdn, chalky, oolitic, granular, no vis por Shale: red, gray, green, silty Shale: red, gray, silty	
4000		Limestone: tan to white, fxdn, granular, fossiliferous, no vis por Shale: red, gray, silty	
4050		Limestone: white, fxdn, sil, chalky, sil fossiliferous, no vis por Shale: gray black Shale: red, gray, silty	DST #1 3884-3949 30-60-30-60 1st open: surface blow no build 2nd open: no blow no returns Rec: 2' mud hydro: 2011-1934 psi lf: 27-25 psi ff: 30-45 psi sip: 166-121 psi bht: 133°F
4100		Limestone: white to tan, m-ixn, oolitic, v-fossiliferous, no vis por, ns Shale: gray, red, silty	Stotler 3883 (-642)
4150		Limestone: tan f-mxn, v-fossiliferous, sil interxn por, ns Shale: gray, red, silty	
4200		Limestone: tan to white, f-mxn, v-fossiliferous, 5% sample fr pp por, gd dark sat stain, frsfo, no odor Shale: gray, red, silty Limestone: white, f-mxn, sil, chalky, fossiliferous, no vis por, gd black flaky stain, nfo, no odor Shale: gray, red, silty	8:00am, 9/22/2014
4250		Shale: gray, red, silty	
4300		Limestone: white, f-mxn, sil, chalky, oolitic, v-fossiliferous, pr interxn por, black dead oil stain, nfo, no odor Shale: gray, red, silty Limestone: white, m-ixn, sil, chalky, oolitic, in part, v-fossiliferous, no vis por, ns	Topeka 3979 (-712) wt 9.2, vis. 76, lcm 8# Morgan Mud, Dave Korte
4350		Limestone: white, f-mxn, chalky, granular, fossiliferous, no vis por, 3 pieces spotty black stain, nfo, no odor Shale: gray, red, black, silty	
4400		Limestone: white, fxdn, sil, chalky, oolitic in part, v-fossiliferous, no vis por, ns Shale: red, gray, silty	DST #2 4033-4087 30-60-60-90 1st open: bob 13 min 1st close: no return 2nd open: bob 15 min 2nd close: return built to 3" Rec: 90' oil 248' ocm 30/30/40 hydro: 2070-2008 psi lf: 28-64 psi ff: 64-204 psi sip: 197-341 psi bht: 150°F chlorides: 32,000 rw: 0.143 @ 82°F gravity: so heavy the hygrometer would not sink into it chlorides: 45,000 ppm
4450		Shale: gray, green	8:00am, 9/23/2014
4500		Limestone: white to tan, f-mxn, chalky, fossiliferous, 3% sample, sil, silty, faint odor, some visible barren por Shale: red, gray, brown black Limestone: white, f-mxn, chalky, oolitic, fossiliferous, pr interxn por, pr, ns Limestone: tan to brown, fxdn, dense, no vis por, ns	Ored 4077 (-836) wt 9.1, vis. 90, lcm 8# Morgan Mud, Dave Korte
4550		Shale: black, gray, brown, silty	
4600		Sandstone: gray/green, fgm, well sorted, subrd, friable, gd intergranular, fl sat stain, frsfo on break, faint odor Shale: red, gray, brown black	DST #3 4110-4200 30-60-60-90 1st open: blow built to 3 3/4" 2nd open: bob 55 min no returns Rec: 100' clean oil 80' gcom 30/30/40 hydro: 2070-2008 psi lf: 28-64 psi ff: 50-80 psi sip: 1238-1204 psi bht: 136°F gravity: 37°
4650		Limestone: tan to white, f-mxn, oolitic, fossiliferous, no vis por Shale: gray, red, silty	8:00am, 9/24/2014
4700		Limestone: tan to white, f-mxn, sil, chalky, oolitic, v-fossiliferous, pr interxn por, black dead oil stain, nfo, no odor Shale: gray, red, silty Limestone: white, m-ixn, sil, chalky, oolitic, in part, v-fossiliferous, no vis por, ns	Lansing 4163 (-922) wt 9.3, vis. 63, lcm 10# Morgan Mud, Dave Korte
4750		Shale: gray, red, silty	
4800		Limestone: white to tan, fxdn, fossiliferous, no vis por Shale: gray, red, brown, black	DST #4 4338-4410 30-60-30-60 1st open: bob 5min 2nd open: bob 5min no returns Rec: 578' mw 50/50 738' mw 13/87 hydro: 2077-2006 psi lf: 62-399 psi ff: 403-649 psi sip: 1201-1200 psi bht: 150°F chlorides: 32,000 rw: 0.143 @ 82°F
4850		Limestone: tan, fxdn, granular, fossiliferous, sil cherty, no vis por Shale: gray, red, silty	8:00am, 9/25/2014 wt 9.3, vis. 67, lcm 10# Morgan Mud, Dave Korte
4900		Limestone: white to tan, fxdn, sil, chalky, oolitic, fossiliferous, no vis por, ns Limestone: tan to brown, fxdn, sil, chalky, oolitic, dark sat stain, silsfo, fair odor Limestone: brown, fxdn, dense sil interxn por, 3% sample dark sat stain, profo mostly on break, faint odor Shale: gray lt to dark, red, blocky	DST #5 4253-4310 30-60-30-60 1st open: bob 3 min 1st shut in: return built to 10 1/2" 2nd open: bob 5 min 2nd shut in: return built to 1/2" Rec: 233' lo 868' go 15/65 240' gcom 10/20/70 hydro: 2061-2002 psi lf: 89-372 psi ff: 385-562 psi sip: 1286-1282 psi bht: 151°F gravity: 33° api
4950		Limestone: white, fxdn, sil, chalky, fossiliferous, pr pp por, 1% sample lt sat stain, silsfo, no odor Shale: gray, red, silty	8:00am, 9/26/2014 wt 9.2, vis. 73, lcm 8# Morgan Mud, Dave Korte
5000		Shale: gray light to dark, red	DST #6 4308-4384 Mis-Run, packer failure
5050		Limestone: white, f-mxn, sil, chalky, oolitic, fossiliferous, 25% sample sil, oolitic, pyritic, gd interxn por, black sat stain, frsfo, fair odor Shale: gray, red, black	DST #7 4326-4394 30-60-30-60 1st open: wk surface blow 2nd open: no blow Rec: 1056' drilling mud hydro: 2139-2097 psi lf: 575-575 psi ff: 575-575 psi sip: 1365-1351 psi bht: 136°F MIS-RUN, tool opened when set near drilling table floor, the tool was picked up and reset when another pipe was added, the tool had already filled with mud.
5100		Limestone: white, f-mxn, sil, chalky, oolitic, fossiliferous, dense, no vis por, 2 pieces v-ll stain, nfo, no odor Shale: gray, green, red, silty	8:00am, 9/27/2014 wt 9.2, vis. 67, lcm 4# Morgan Mud, Dave Korte
5150		Limestone: white to tan, fxdn, sil, chalky, sil fossiliferous, dense, no vis por, ns Shale: gray, green, red, silty	Stark 4383 (-1142)
5200		Shale: gray, red	
5250		Limestone: white to tan, fxdn, dense, fossiliferous, no vis por Sandstone: brown to red, fn-md gm, sub rd, well sorted, calcareous, no vis por, ns Limestone: white to tan, fxdn, sil, chalky, dense, no vis por Shale: red, silty	BKC 4433 (-1192)
5300		Shale: gray, green, red, silty	
5350		Limestone: white, fxdn, chalky, dense, no vis por Shale: gray, brown, green, red, silty	
5400		Shale: red, brown, gray, silty	
5450		Sandstone: lt gray, fn gm, sub rd, well sorted, calcareous, no vis por, ns Shale: red, brown, gray, silty, sandy	
5500		Limestone: white to tan, fxdn, sil, chalky, fossiliferous, no vis por Limestone: lt gray to tan, fxdn, silty, sandy, no vis por Siltstone: lt gray, fxdn, dense, no vis por	8:00am, 9/28/2014
5550		Shale: red, gray, black, silty	
5600		Limestone: gray to white, fxdn, oolitic, sil cherty, fossiliferous, no vis por Limestone: white, fxdn, dense, fossiliferous, no vis por Shale: red, gray, black Limestone: white to tan, fxdn, oolitic, sil pyritic, fossiliferous, no vis por	Pawnee 4561 (-1320) wt 9.2, vis. 93, lcm 8# Morgan Mud, Dave Korte
5650		Limestone: tan to brown, fxdn, dense, no vis por Shale: black carbonaceous, gray	
5700		Limestone: white to tan, fxdn, sil, chalky, oolitic in part, fossiliferous, no vis por Shale: gray, red	Cherokee Shale 4636 (-1395)
5750		Shale: gray, red	
5800		Limestone: white to tan, fxdn, sil, chalky, dense, hard, fossiliferous, no vis por Sandstone: white, lt, micaceous, mdgm, sub rd, moderately sorted, calcareous, hard, no vis por, ns Limestone: tan to brown, fxdn, dense, hard, sil fossiliferous, no vis por	
5850		Shale: gray, red	
5900		Limestone: white to tan, fxdn, sil, chalky, dense, sil fossiliferous, no vis por Shale: gray, brown, red	
5950		Sandstone: tan, sil, biotitic, fn-mdgm, sub rd, mod sorted, calcareous, semi-friable, no vis por, ns Sandstone: tan to white, sil, biotitic, mdgm, sub rd, mod sorted, v-calcareous, semi-friable, no vis por, ns	
6000		Shale: red, v-sandy	
6050		Sandstone: white, lt, sil, biotitic, mdgm, sub rd, mod sorted, calcareous, hard, no vis por, ns Shale: gray, red, yellow	
6100		Sandstone: white, lt, mdgm, sub rd, mod sorted, calcareous, hard, no vis por, ns Shale: red, gray, sandy	
6150		Limestone: white to tan, fxdn, sil, chalky, dense, no vis por Shale: red, gray, sandy	RTD 4770 (-1529) Geologist off location at 11:30am, 9/29/2014

Kacirek Trust #2-5
 Daily Drilling Report
 Page Two

- 9/25/14 Depth 4240'. Cut 70'. DT: None. CT: 20hrs. Dev.: None. **DST #3 4110-4200' (Doug-LKC A)**: 30-60-60-90. IF: opened w/surf blw. FF: blw built to BOB in 55mins. Rec.: 100'CO, 80'GOCM (40%M, 30%O, 30%G). HP: 2070-2008. FP: 28/65, 50/81. SIP: 1240-1205. BHT: 137°. **LKC D**: Ls white, f-mxln, sl chalky, oolitic in part, foss, pyritic, 25% sample gd interxln por, blk sat stn, fr odr. **DST #4 4189-4240' (LKC D)**: 30-60-30-60. IF: Opened w/surf blw, built to BOB in 5mins. FF: blw built to BOB in 5mins. Rec.: 578'MW (50%W, 50%M), 798'MW (87%W, 13%M). HP: 2077-2007. FP: 63/400, 403/650. SIP: 1202-1200. BHT: 150°.
- 9/26/14 Depth 4310'. Cut 70'. DT: None. CT: 19hrs. Dev.: None. **LKC G**: Ls tan - brn, fxln, sl chalky, foss pr interxln por, 1% sample, dk sat stn, slsfo, faint odr. **LKC G'**: Ls brown, fxln, mostly dense, sl interxln por, 3% sample dk sat stn, prsfo mostly on break, fnt odr. **DST #5 4253-4310 57' (LKC G)**: 30-60-30-60. IF: Opened w/surf blw, built to BOB 3mins. ISI: return built to 10½". FF: blw built to BOB in 5mins. FSI: return built to ½". Rec.: 253'FO, 868'GO (85%O, 15%G), 240'GMCO (70%O, 20%M, 10%G). HP: 2062-2002. FP: 90/373, 385/562. SIP: 1287-1282. BHT: 151°.
- 9/27/14 Depth 4384'. Cut 74'. DT: None. CT: 20hrs. Dev.: None. **LKC H**: lst, fnxln, sl chalky, foss, pr ppt por, lt spt-sat stn, SSFO, no odor. **LKC J**: lst, fnxln, sl ool, foss, pr interxln por, lt sat stn, FSFO, fnt odor. **DST #6 4302-4384 (H-J)**: misrun. After DST #6 legde @ 1422' reamed, lost 50BBLs fluid. **DST #7 4308-4384 (H-J)**: 30-60-30-60. Rec.: 1056'M. Mis-run.
- 9/28/14 Depth 4530'. Cut 146'. DT: None. CT: 13½ hrs. Dev.: None.
- 9/29/14 RTD 4770'. Cut 240'. DT: None. CT: 10hrs. Dev.: ¼° @ 4770'. HC @ 11:00PM 9/28. Pioneer started logging @ 5:45AM 9/29. LTD: 4776'.
- 9/30/14 RTD: 4770'. CT: 18½ hrs. Pioneer finished logging @ 10:15AM 9/29. Ran 111jts of 5½" prod csg, set @ 4765'. Swift cmt w/450sxs (200EA-2, 250SMD), PD @ 9:30PM 9/29. 30sxs HR, 20sxs MH. Circ 20BBLs. RR @ 1:30AM 9/30/14. FINAL REPORT

		MDCI Kacirek Trust #2-5 2310' FSL 600'FWL Sec. 5-2S-36W 3241' KB				MDCI Kacirek Trust #1-5 2170' FNL 330'FWL Sec. 5-2S-36W 3252' KB			
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum	
Anhydrite	3125	+116	+12	3135	+106	+2	3148	+104	
B/Anhydrite	3156	+85	+12	3169	+72	-1	3179	+73	
Neva	3615	-374	+6	3620	-379	+1	3628	-380	
Stotler	3883	-642	-2	3886	-645	-5	3892	-640	
Topeka	3948	-707	-2	3953	-712	-7	3957	-705	
Oread	4077	-836	-3	4081	-840	-7	4085	-833	
Lansing	4163	-922	-4	4167	-926	-8	4170	-918	
Stark	4383	-1142	-6	4386	-1145	-9	4388	-1136	
BKC	4433	-1192	-6	4436	-1195	-9	4438	-1186	
Pawnee	4561	-1320	-8	4564	-1323	-11	4564	-1312	
Cherokee	4636	-1395	-8	4639	-1398	-11	4639	-1387	
Mississippi	NR			NR			4859	-1607	
RTD	4770						4945		
LTD				4776			4935		



*Acct
Prod-MG*

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 1458 14
Invoice Date: Sep 19, 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	64237	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Sep 19, 2014	10/19/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Kacirek #2-5		
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
816.75	CEMENT SERVICE	Ton Mileage Charge	2.75	2,246.06
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
75.00	CEMENT SERVICE	Pump Truck Mileage	7.70	577.50
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
75.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	330.00
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		

Subtotal	10,252.71
Sales Tax	373.35
Total Invoice Amount	10,626.06
Payment/Credit Applied	
TOTAL	10,626.06

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

\$ 3,588.44

ONLY IF PAID ON OR BEFORE
Oct 19, 2014

*JK
SR*

ALLIED OIL & GAS SERVICES, LLC 064237

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Cobley, KS

DATE <u>7-19-14</u>	SEC <u>5</u>	TWP. <u>2</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION <u>08:00 pm</u>	JOB START <u>9:00 pm</u>	JOB FINISH <u>9:30 pm</u>
LEASE <u>Macirek</u>	WELL# <u>2-5</u>	LOCATION <u>McDonald 8.5N</u>	COUNTY <u>Rawlins</u>		STATE <u>KS</u>		
OLD OR NEW (Circle one)			<u>E + N + W into</u>				

CONTRACTOR Martin 2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 265'

CASING SIZE 8 5/8 DEPTH 264.19'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 15.5 bbl water

OWNER Same

CEMENT AMOUNT ORDERED 225 sks Com

3% CC

EQUIPMENT

PUMP TRUCK CEMENTER Paul Beaver

431 HELPER Brandon Wilkinson

BULK TRUCK DRIVER Juan 3 (TWS)

876/241

BULK TRUCK DRIVER _____

COMMON 225 sks @ 17.90 4027.50

POZMIX @ _____

GEL @ _____

CHLORIDE 635 # @ 1.10 698.50

ASC @ _____

Material Total @ _____ 4726.00

(1254.10 / 35%) @ _____

HANDLING 236.25 # @ 2.48 585.90

MILEAGE 10.82 hrs @ 75 mix 2.75 297.06

TOTAL _____

REMARKS:

mix 225 sks

Displace w/ water

cement did circulate

SERVICE

DEPTH OF JOB 265'

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @ _____

MILEAGE MIAV 75 @ 7.70 577.50

MANIFOLD swedge @ 275.00

MILV 75 @ 4.40 330.00

CHARGE TO: Martin Drlg

STREET _____

CITY _____ STATE _____ ZIP _____

(1934.34 / 35%) TOTAL 10,552.71

5,326.71

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

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.

SALES TAX (If Any) _____

TOTAL CHARGES 10,252.71

DISCOUNT 3,580.44 (35%) IF PAID IN 30 DAYS

6,664.26 Net.

PRINTED NAME Paul C. Beaver

SIGNATURE Paul C. Beaver



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



Invoice

DATE	INVOICE #
9/29/2014	27938

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661
USED FOR <u>IC/O3</u>
APPROVED <u>JN/EH</u>

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-5	Kacirek Trust	Rawlins	Company Tools	Oil	Development	5-1/2" LongString	Jason
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				150	Miles	6.00	900.00
579D	Pump Charge - Top To Bottom LongString				1	Job	2,000.00	2,000.00
403-5	5 1/2" Cement Basket				3	Each	300.00	900.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	275.00	275.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	375.00	375.00T
409-5	5 1/2" Turbolizer				15	Each	90.00	1,350.00T
413-5	5 1/2" Roto Wall Scratcher				30	Each	40.00	1,200.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00T
276	Flocele				125	Lb(s)	2.50	312.50T
283	Salt				1,000	Lb(s)	0.20	200.00T
284	Calseal				9	Sack(s)	35.00	315.00T
285	CFR-1				150	Lb(s)	4.50	675.00T
290	D-Air				5	Gallon(s)	42.00	210.00T
325	Standard Cement				200	Sacks	14.50	2,900.00T
330	Swift Multi-Density Standard (MIDCON II)				300	Sacks	18.50	5,550.00T
581D	Service Charge Cement				500	Sacks	2.00	1,000.00
583D	Drayage				3,815.62	Ton Miles	1.00	3,815.62
	Subtotal							22,853.12
	Sales Tax Rawlins County						7.90%	1,195.86
We Appreciate Your Business!							Total	\$24,048.98



CHARGE TO: **MURKIN DRILLING**
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET 27938

PAGE 1 OF 2

1. **NESS CITY, KS** WELL/PROJECT NO: **2-5** LEASE: **KACIBEK TRUST** COUNTY/PARISH: **RAWLINS** STATE: **KS** CITY: **McDONALD, KS** DATE: **29 SEP 14** OWNER: _____
 2. _____ TICKET TYPE: SERVICE SALES CONTRACTOR: **Co. Tools** RIG NAME/NO: **RIG 2** SHIPPED VIA: _____ DELIVERED TO: _____ ORDER NO.: _____
 3. _____ WELL TYPE: **OIL** WELL CATEGORY: **DEVELOPMENT** JOB PURPOSE: **5 1/2" LONG STRING** WELL PERMIT NO.: _____ WELL LOCATION: **8.1 N, W 10 W**
 4. _____ REFERRAL LOCATION: _____ INVOICE INSTRUCTIONS: _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MIL EAGE \$ 115-	150	mil			60	9000
579					Pump Charge	1	CHRG			2000	2000
403					CEMENT BASKETS	3	EA			900	2700
4DG					LATCH DOWNS PLUS BARELE	1	EA			275	275
4D7					INSERT FLOAT SHADE W/ FILL	1	EA			375	375
4D9					TURBOIZERS	1	EA			90	90
4I3					ROTD UNL. SEPARATORS.	3	DA			410	1230
4I9					ROTATING HEAD RENTAL	1	HR			200	200
281					MUD FLUSH	500	gal			1.35	675
221					AIRPUD KCL	2	gal			25	50

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

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

DATE SIGNED: **29 Sep 14** TIME SIGNED: **2:00 PM**

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

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: **1** TOTAL: **24,048.95**

SWIFT OPERATOR: **Joe K...** APPROVAL: _____
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: _____
 The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE: 29 Sep 14 PAGE NO.

CUSTOMER: MURKIN DRILLING

WELL NO.: 2-5

LEASE: KACIREK TRUST

JOB TYPE: 5 1/2 LONG STRING

TICKET NO.: 27938

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1730							ON LOCATION
	1745							START PIPE 5 1/2-15.5" RTD @ 4770 SHOE JT. 18.80 CENTRALIZERS 1,2,3,6,7,8,9,10,11,12,14,16,18,38,64 BASKETS 19,39,65
	1946				✓			DROP BALL - CIRCULATE
	2023	6	12		✓		300	Pump 500 gal = MUD FLUSH
		6	20		✓		300	Pump 20 BBL KCL SPACER
	2030		7.5					PLUG RH - 30 SX - MH - 20 SX
	2036	6	138		✓		300	MIX 250 SX SMD
		6	48		✓		300	MIX 200 SX EA-2
	2113							WASH OUT Pump & LINES.
		8			✓			START DISPLACING PLUG
	2130	8	113		✓		1100	PLUG DOWN - LATCA PLUG IN. CIRCULATE 20 SX TO PIT
	2133				✓			RELEASE PSI - DRY
	2135							WASH TRUCK
	2200							JOB COMPLETE.
								THANKS B 115
								JASON DAVE ISAAC CRAIG