



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1224034
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: _____

1224034

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: Yes No

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Jean 2-8
Doc ID	1224034

All Electric Logs Run

DIL
DUCP
MEL
BHCS



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N. Water STE 300
Wichita KS 67206

ATTN: Steve Miller

Jean #2-8

8-1s-37w Cheyenne,KS

Start Date: 2014.06.01 @ 10:23:00

End Date: 2014.06.01 @ 20:26:40

Job Ticket #: 58143 DST #: 1

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

Printed: 2014.06.09 @ 11:56:55



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company
 250 N. Water STE 300
 Wichita KS 67206
 ATTN: Steve Miller

8-1s-37w Cheyenne,KS

Jean #2-8

Job Ticket: 58143

DST#: 1

Test Start: 2014.06.01 @ 10:23:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:25:20

Time Test Ended: 20:26:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 58

Interval: 4036.00 ft (KB) To 4098.00 ft (KB) (TVD)

Reference Elevations: 3212.00 ft (KB)

Total Depth: 4098.00 ft (KB) (TVD)

3207.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 168.69 psig @ 4037.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.01

End Date:

2014.06.01

Last Calib.:

2014.06.01

Start Time: 10:23:01

End Time:

20:26:40

Time On Btm:

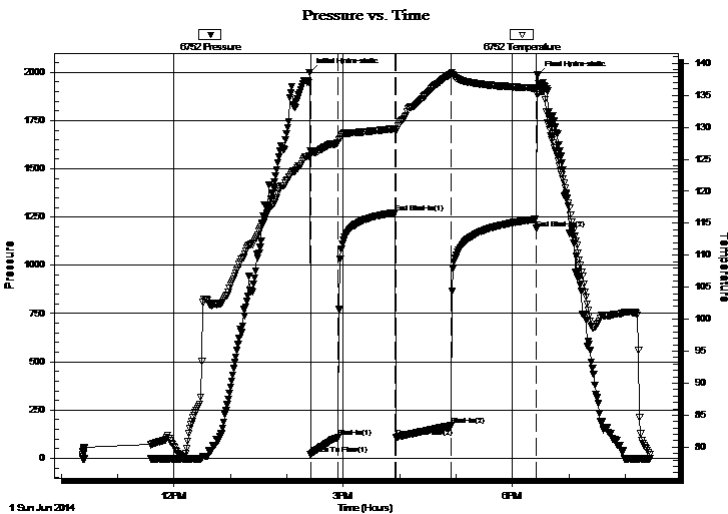
2014.06.01 @ 14:24:10

Time Off Btm:

2014.06.01 @ 18:26:50

TEST COMMENT: 30 - IF - Opened w/ surface blow , built to 6 1/2"
 60 - ISI - No Return
 60 - FF - Opened w/ surface blow , built to 10 1/2"
 90 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1999.86	125.50	Initial Hydro-static
2	18.46	126.25	Open To Flow (1)
31	106.77	127.57	Shut-In(1)
91	1273.11	129.78	End Shut-In(1)
93	108.77	129.57	Open To Flow (2)
151	168.69	138.38	Shut-In(2)
242	1191.38	136.09	End Shut-In(2)
243	1985.23	135.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	MW 68%w , 32%m	1.78
92.00	100%m	1.29

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

8-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67206

Jean #2-8

Job Ticket: 58143

DST#: 1

ATTN: Steve Miller

Test Start: 2014.06.01 @ 10:23:00

Tool Information

Drill Pipe:	Length: 3856.00 ft	Diameter: 3.80 inches	Volume: 54.09 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 55.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4036.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4010.00	
Shut In Tool	5.00			4015.00	
Hydraulic tool	5.00			4020.00	
Jars	5.00			4025.00	
Safety Joint	2.00			4027.00	
Packer	5.00			4032.00	27.00 Bottom Of Top Packer
Packer	4.00			4036.00	
Stubb	1.00			4037.00	
Recorder	0.00	6752	Inside	4037.00	
Recorder	0.00	8322	Outside	4037.00	
Perforations	25.00			4062.00	
Change Over Sub	1.00			4063.00	
Drill Pipe	31.00			4094.00	
Change Over Sub	1.00			4095.00	
Bullnose	3.00			4098.00	62.00 Bottom Packers & Anchor

Total Tool Length: 89.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

8-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67206

Jean #2-8

Job Ticket: 58143

DST#: 1

ATTN: Steve Miller

Test Start: 2014.06.01 @ 10:23:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.19 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 bbbl
248.00	MW 68%w , 32%m	1.784
92.00	100%m	1.291

Total Length: 340.00 ft Total Volume: 3.075 bbl

Num Fluid Samples: 0

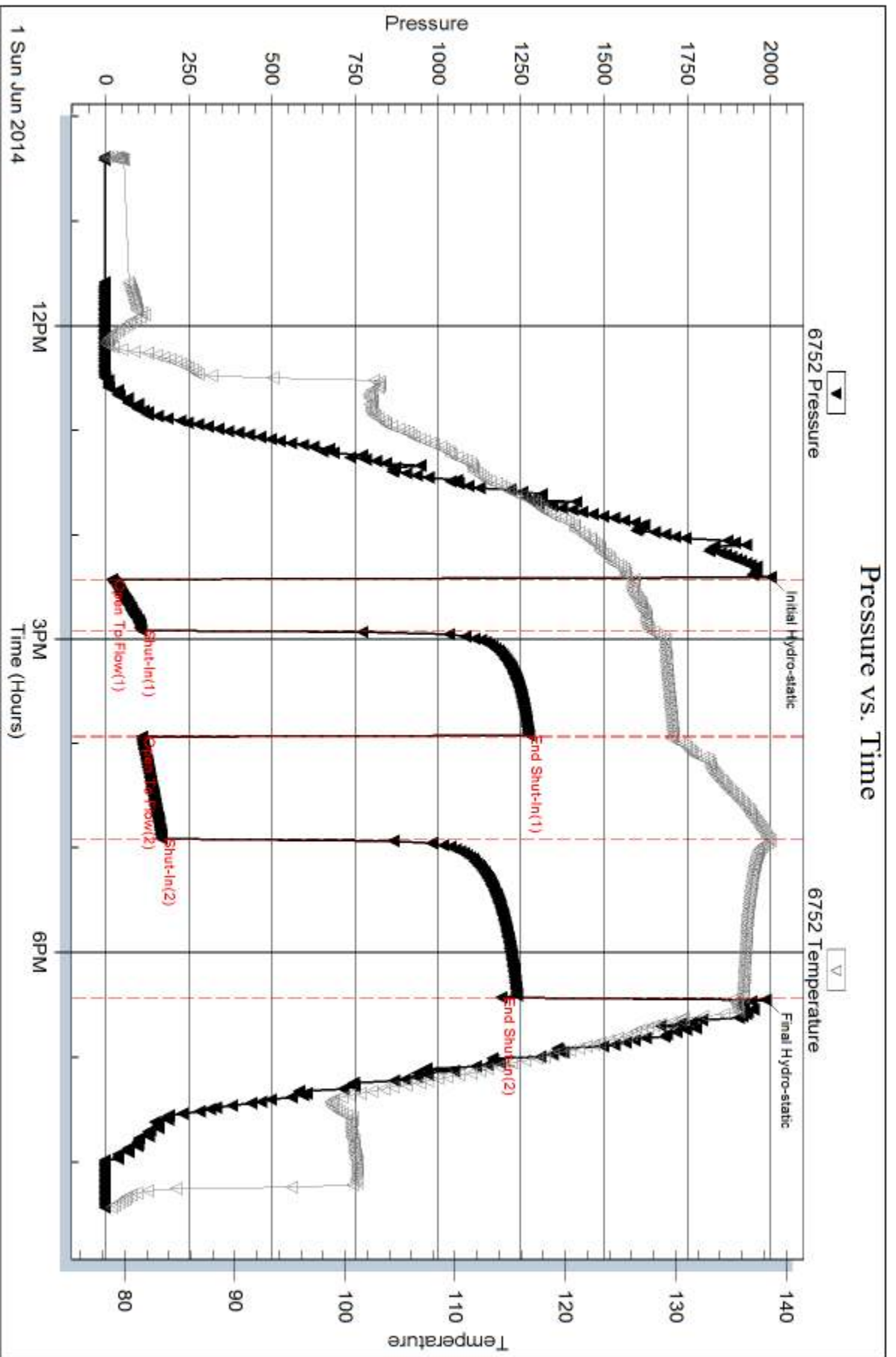
Num Gas Bombs: 0

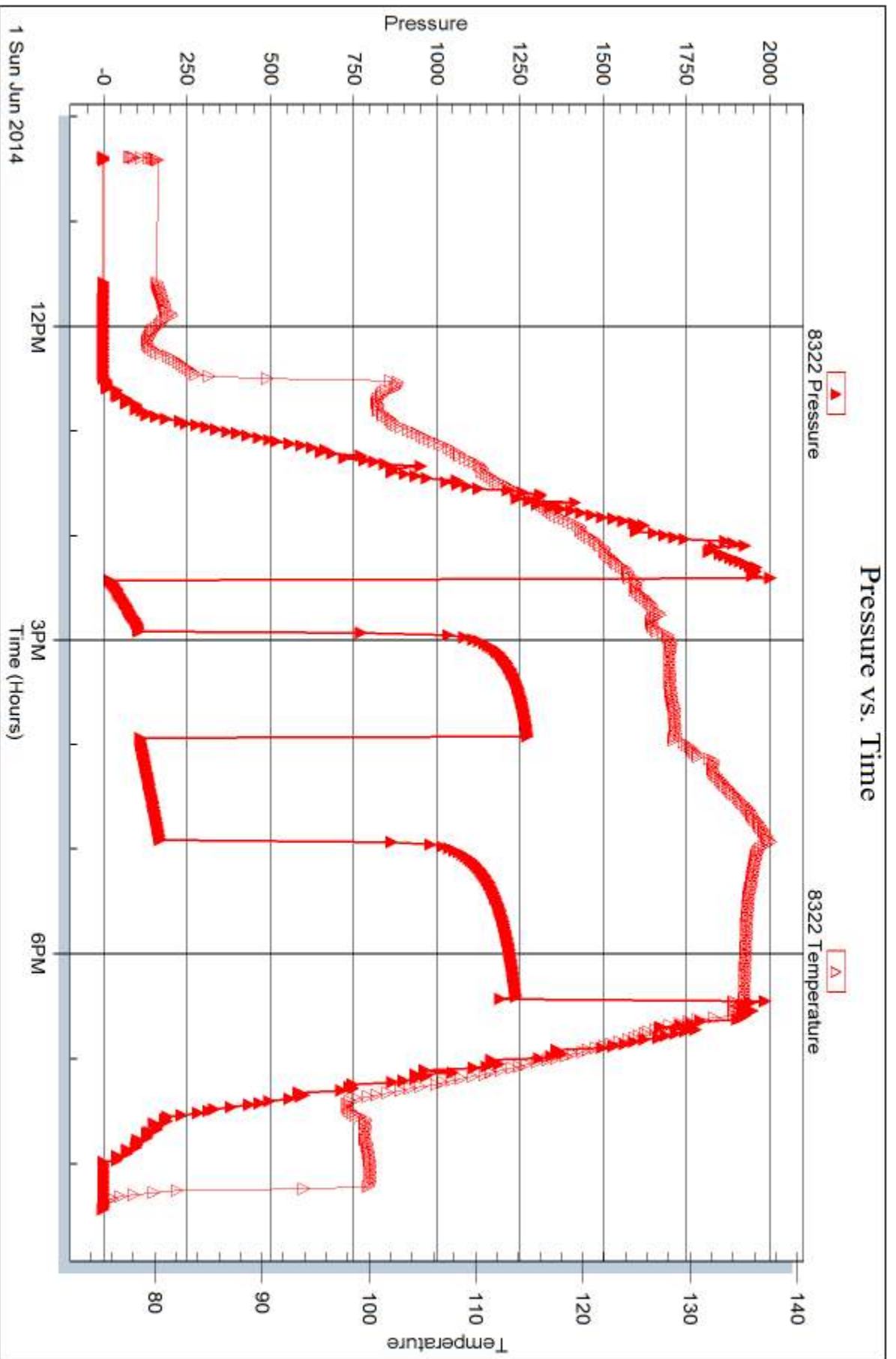
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API RW .23 @ 75.3 Chlorides = 28000 ppm







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N. Water STE 300
Wichita KS 67206

ATTN: Steve Miller

Jean #2-8

8-1s-37w Cheyenne,KS

Start Date: 2014.06.02 @ 09:49:00

End Date: 2014.06.02 @ 18:49:10

Job Ticket #: 58252 DST #: 2

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

Printed: 2014.06.09 @ 11:55:16

Murfin Drilling Company
8-1s-37w Cheyenne,KS
Jean #2-8
DST # 2
LKC " A - D "
2014.06.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

8-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67206

Jean #2-8

Job Ticket: 58252

DST#: 2

ATTN: Steve Miller

Test Start: 2014.06.02 @ 09:49:00

GENERAL INFORMATION:

Formation: **LKC " A - D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:26:40

Time Test Ended: 18:49:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 58

Interval: 4114.00 ft (KB) To 4234.00 ft (KB) (TVD)

Reference Elevations: 3212.00 ft (KB)

Total Depth: 4234.00 ft (KB) (TVD)

3207.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 93.90 psig @ 4115.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.02

End Date:

2014.06.02

Last Calib.:

2014.06.02

Start Time: 09:49:01

End Time:

18:49:10

Time On Btm:

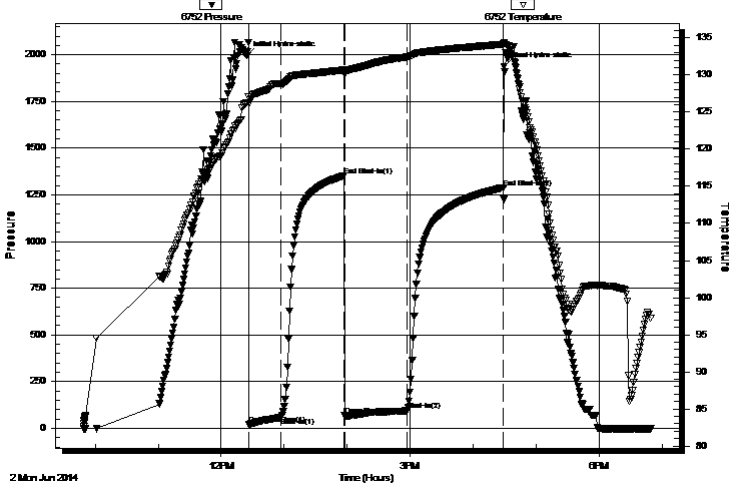
2014.06.02 @ 12:24:40

Time Off Btm:

2014.06.02 @ 16:29:40

TEST COMMENT: 30 IF - 1/2" blow built to 5"
60 ISI - No return
60 FF - Surface blow built to BoB @ 35 mins
90 FSI - Surface blow built to 2"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1994.18	126.28	Initial Hydro-static
2	18.97	126.22	Open To Flow (1)
32	57.19	128.85	Shut-In(1)
93	1352.58	130.67	End Shut-In(1)
93	69.68	130.13	Open To Flow (2)
152	93.90	132.41	Shut-In(2)
245	1288.50	134.15	End Shut-In(2)
245	1938.02	134.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
121.00	GOCM - 15%G - 25%o - 60%M	0.60
95.00	GO - 40%G - 60%o	0.74
0.00	158' GIP	0.00

* 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 Company

8-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67206

Jean #2-8

Job Ticket: 58252

DST#: 2

ATTN: Steve Miller

Test Start: 2014.06.02 @ 09:49:00

Tool Information

Drill Pipe:	Length: 3916.00 ft	Diameter: 3.80 inches	Volume: 54.93 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 55.84 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	67000.00 lb
Depth to Top Packer:	4114.00 ft			Final	67000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	120.00 ft				
Tool Length:	147.00 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			4088.00	
Shut In Tool	5.00			4093.00	
Hydraulic tool	5.00			4098.00	
Jars	5.00			4103.00	
Safety Joint	2.00			4105.00	
Packer	5.00			4110.00	27.00 Bottom Of Top Packer
Packer	4.00			4114.00	
Stubb	1.00			4115.00	
Recorder	0.00	6752	Inside	4115.00	
Recorder	0.00	8322	Outside	4115.00	
Perforations	20.00			4135.00	
Change Over Sub	1.00			4136.00	
Drill Pipe	94.00			4230.00	
Change Over Sub	1.00			4231.00	
Bullnose	3.00			4234.00	120.00 Bottom Packers & Anchor

Total Tool Length: 147.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

8-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67206

Jean #2-8

Job Ticket: 58252

DST#: 2

ATTN: Steve Miller

Test Start: 2014.06.02 @ 09:49:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
121.00	GOCM - 15%G - 25%o - 60%M	0.595
95.00	GO - 40%G - 60%o	0.740
0.00	158' GIP	0.000

Total Length: 216.00 ft Total Volume: 1.335 bbl

Num Fluid Samples: 0

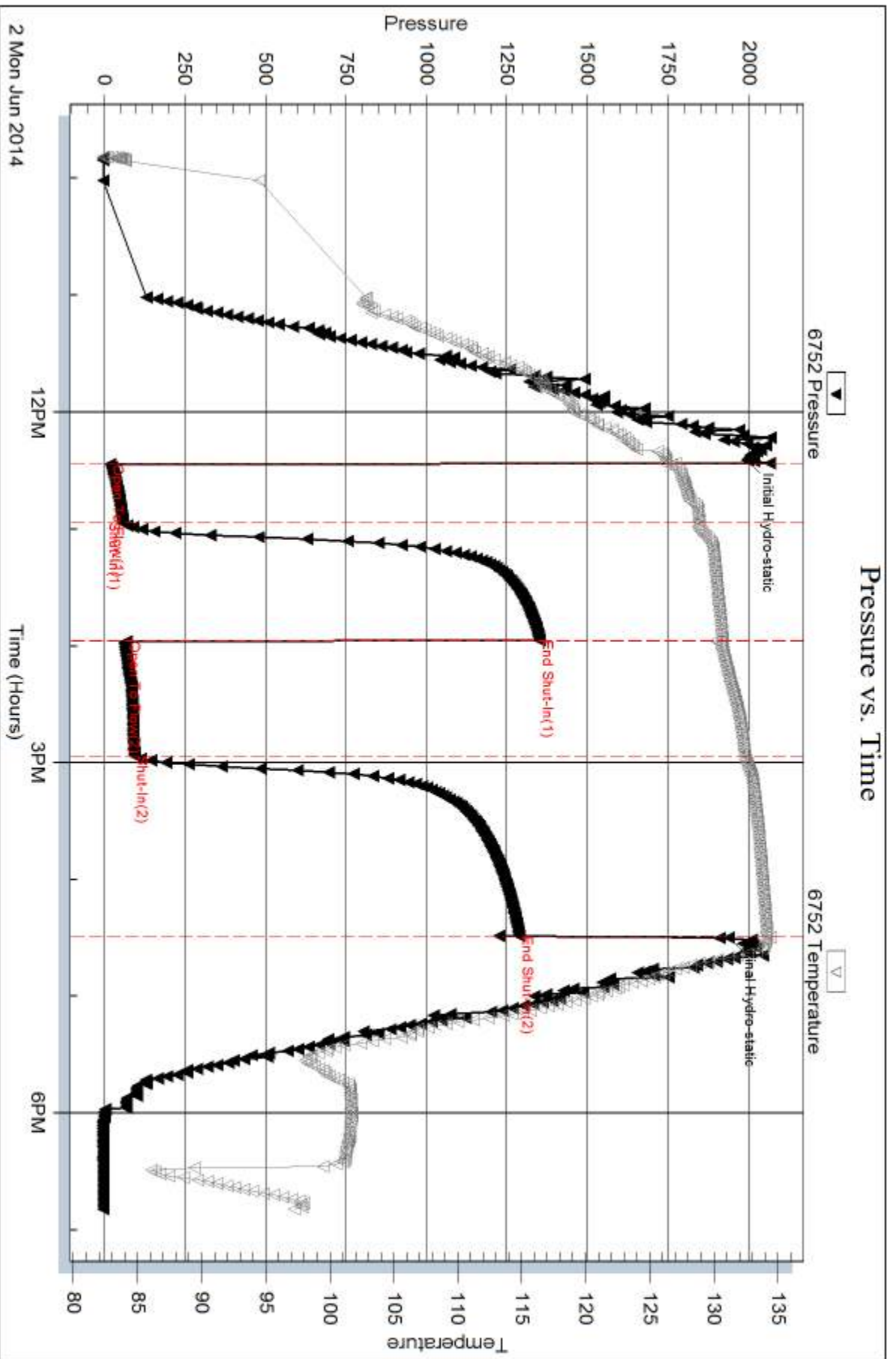
Num Gas Bombs: 0

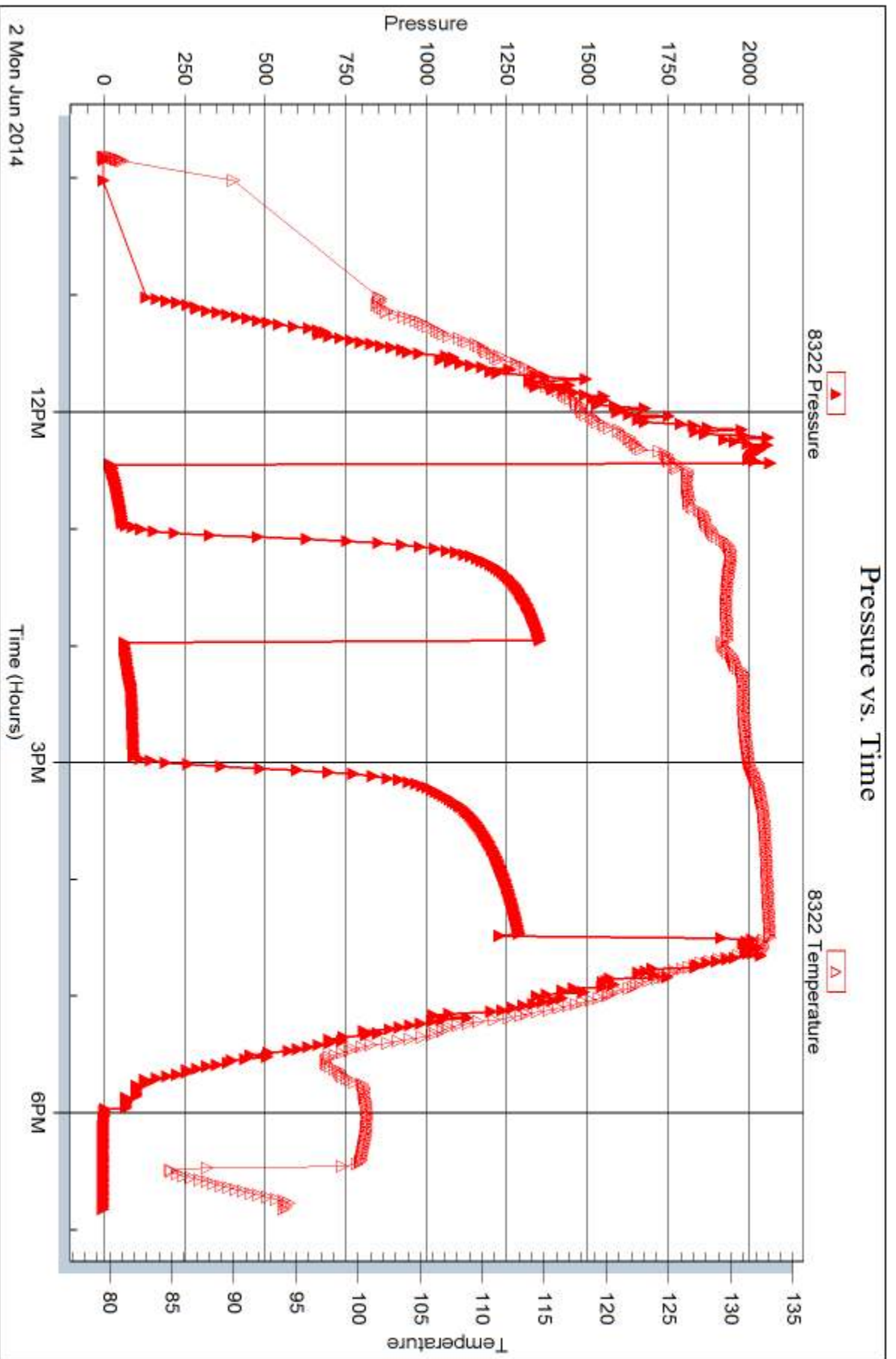
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 35 @ 100 DEG F = 31 COR 60 DEG F







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N. Water STE 300
Wichita KS 67206

ATTN: Steve Miller

Jean #2-8

8-1s-37w Cheyenne,KS

Start Date: 2014.06.03 @ 11:06:00

End Date: 2014.06.03 @ 19:15:20

Job Ticket #: 58253 DST #: 3

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

Printed: 2014.06.09 @ 11:54:55



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company
250 N. Water STE 300
Wichita KS 67206
ATTN: Steve Miller

8-1s-37w Cheyenne,KS

Jean #2-8

Job Ticket: 58253

DST#: 3

Test Start: 2014.06.03 @ 11:06:00

GENERAL INFORMATION:

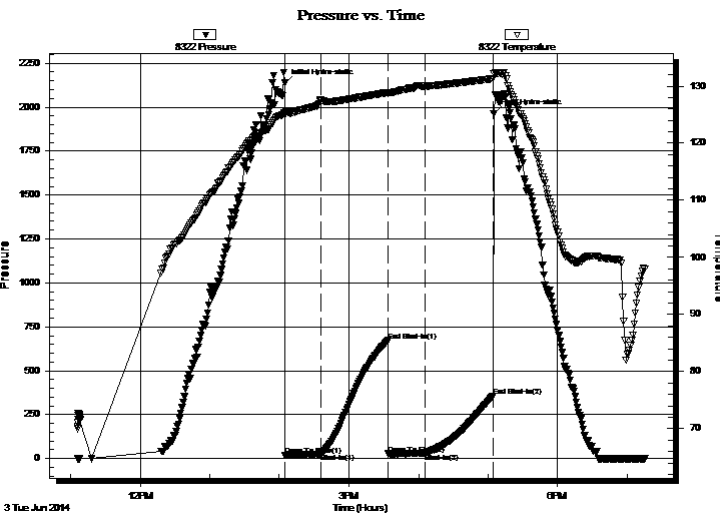
Formation: **LKC "G - J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:05:00
 Time Test Ended: 19:15:20
 Interval: **4244.00 ft (KB) To 4376.00 ft (KB) (TVD)**
 Total Depth: 4376.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Nichols
 Unit No: 58
 Reference Elevations: 3212.00 ft (KB)
 3207.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8322

Outside

Press@RunDepth: 32.07 psig @ 4245.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.03 End Date: 2014.06.03 Last Calib.: 2014.06.03
 Start Time: 11:06:01 End Time: 19:15:20 Time On Btm: 2014.06.03 @ 14:04:30
 Time Off Btm: 2014.06.03 @ 17:05:00

TEST COMMENT: 30 IF - 1/2" blow built to 1 1/2"
 60 ISI - No return
 30 FF - No blow
 60 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2136.61	125.14	Initial Hydro-static
1	19.37	125.02	Open To Flow (1)
31	30.22	127.54	Shut-In(1)
89	671.25	128.88	End Shut-In(1)
90	27.06	128.76	Open To Flow (2)
122	32.07	129.99	Shut-In(2)
180	356.82	131.29	End Shut-In(2)
181	1964.43	132.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM - 10%o - 90%M	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

8-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67206

Jean #2-8

Job Ticket: 58253

DST#: 3

ATTN: Steve Miller

Test Start: 2014.06.03 @ 11:06:00

Tool Information

Drill Pipe:	Length: 4041.00 ft	Diameter: 3.80 inches	Volume: 56.68 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4244.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	132.00 ft			
Tool Length:	159.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4218.00	
Shut In Tool	5.00			4223.00	
Hydraulic tool	5.00			4228.00	
Jars	5.00			4233.00	
Safety Joint	2.00			4235.00	
Packer	5.00			4240.00	27.00 Bottom Of Top Packer
Packer	4.00			4244.00	
Stubb	1.00			4245.00	
Recorder	0.00	6752	Inside	4245.00	
Recorder	0.00	8322	Outside	4245.00	
Perforations	32.00			4277.00	
Change Over Sub	1.00			4278.00	
Drill Pipe	94.00			4372.00	
Change Over Sub	1.00			4373.00	
Bullnose	3.00			4376.00	132.00 Bottom Packers & Anchor

Total Tool Length: 159.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

8-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67206

Jean #2-8

Job Ticket: 58253

DST#: 3

ATTN: Steve Miller

Test Start: 2014.06.03 @ 11:06:00

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: 8.78 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
10.00	OCM - 10%o - 90%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

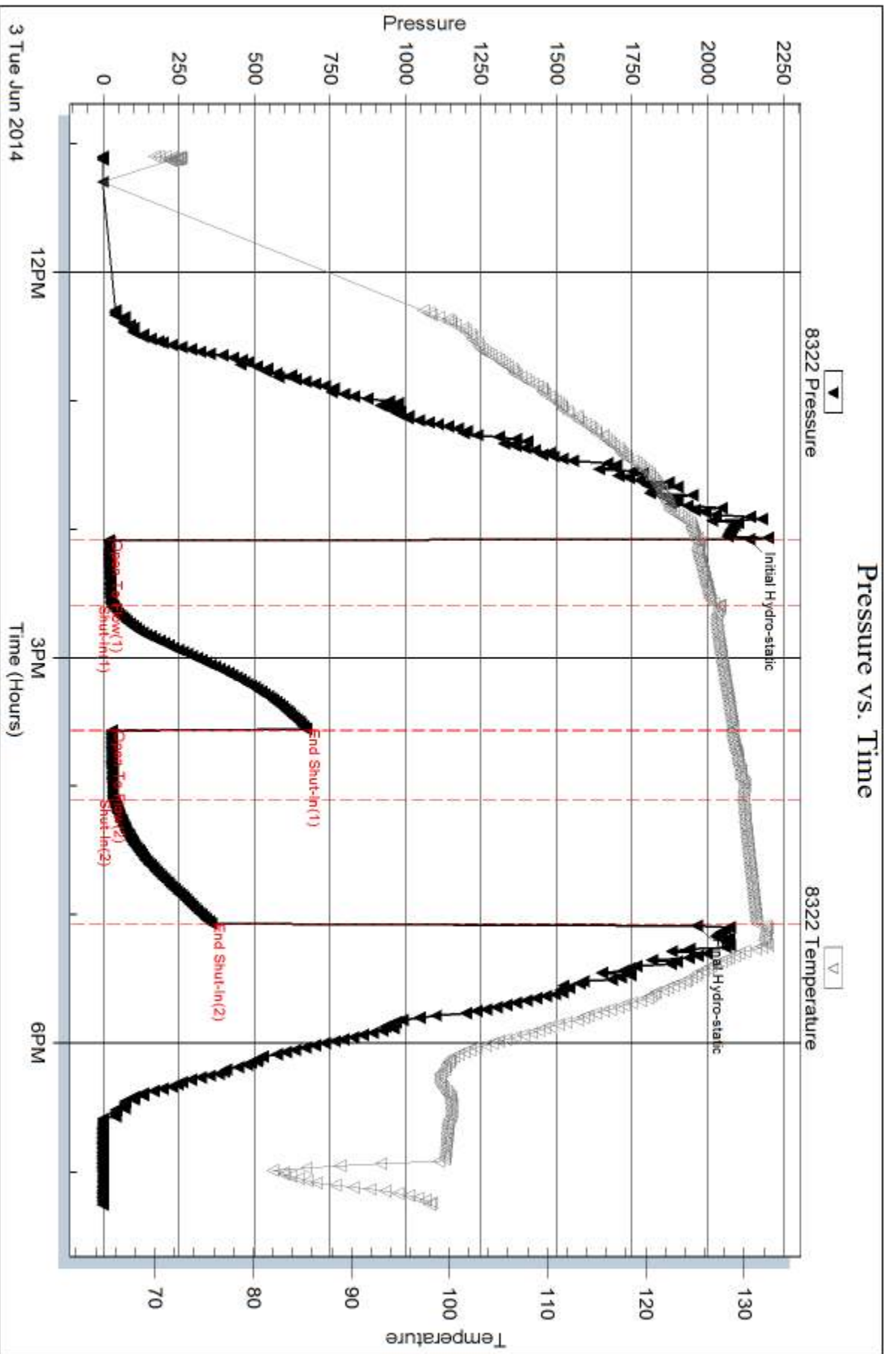
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



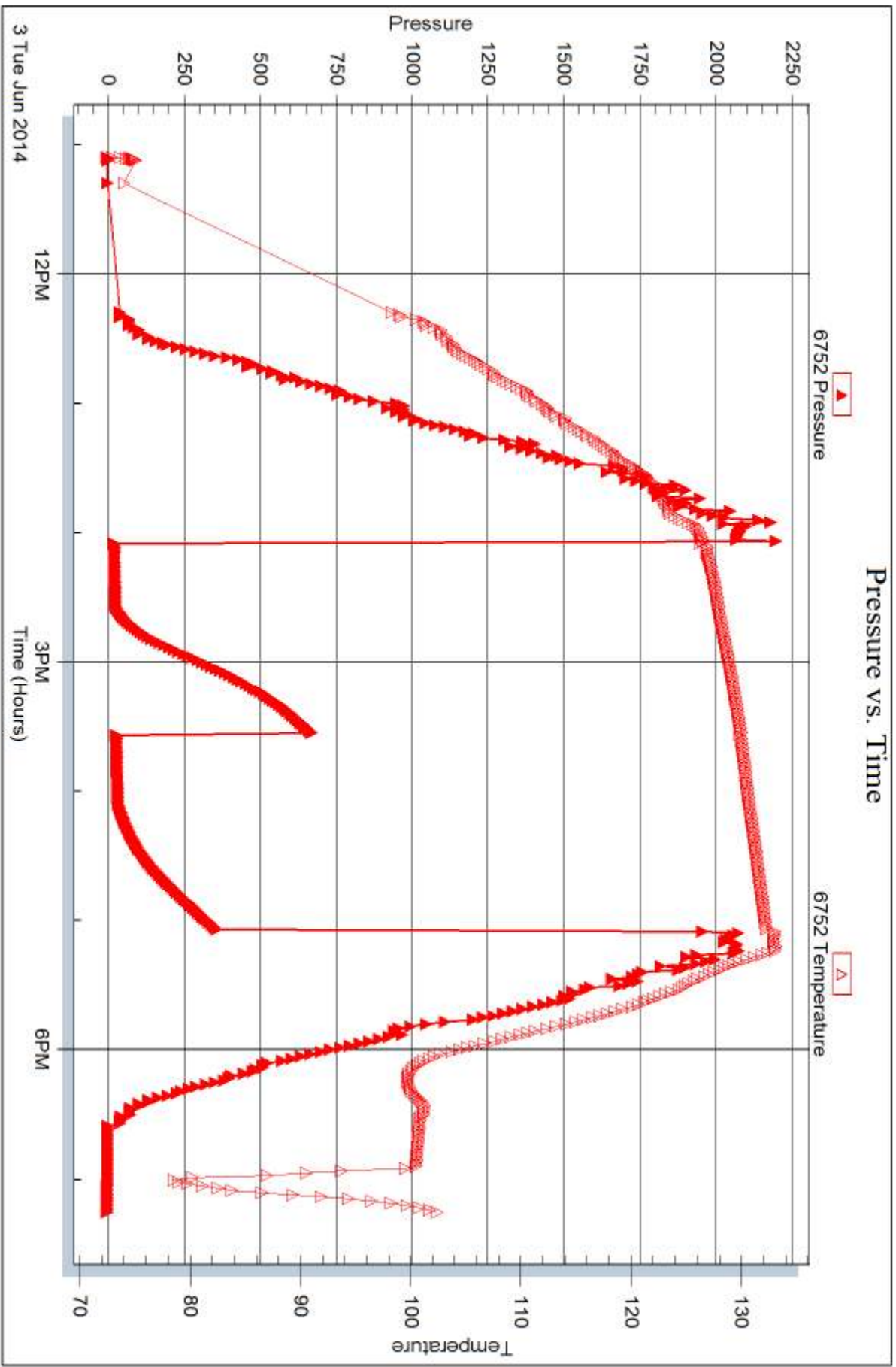
Serial #: 6752

Inside

Murfin Drilling Company

Jean #2-8

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58253

Printed: 2014.06.09 @ 11:54:56



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N. Water STE 300
Wichita KS 67206

ATTN: Steve Miller

Jean #2-8

8-1s-37w Cheyenne,KS

Start Date: 2014.06.04 @ 16:02:00

End Date: 2014.06.05 @ 02:56:10

Job Ticket #: 58254 DST #: 4

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

Printed: 2014.06.09 @ 11:54:19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

8-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67206

Jean #2-8

Job Ticket: 58254

DST#: 4

ATTN: Steve Miller

Test Start: 2014.06.04 @ 16:02:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:34:00

Time Test Ended: 02:56:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 58

Interval: 4535.00 ft (KB) To 4574.00 ft (KB) (TVD)

Reference Elevations: 3212.00 ft (KB)

Total Depth: 4574.00 ft (KB) (TVD)

3207.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 640.93 psig @ 4536.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.04

End Date:

2014.06.05

Last Calib.: 2014.06.05

Start Time: 16:02:01

End Time:

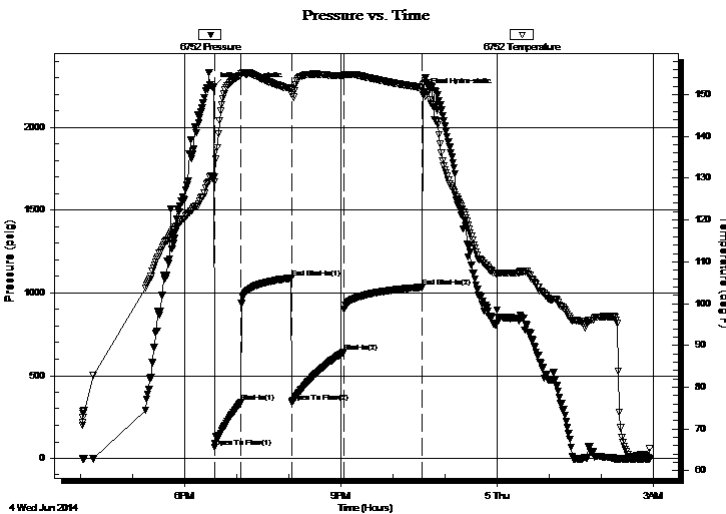
02:56:10

Time On Btm: 2014.06.04 @ 18:33:20

Time Off Btm: 2014.06.04 @ 22:35:20

TEST COMMENT: 30 IF - 1" blow built to BoB @ 3 mins
60 ISI - Surface blow built to BoB @ 12 mins
60 FF - Surface blow built to BoB @ 4 mins
90 FSI - Surface blow built to BoB @ 20 mins

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2246.60	130.40	Initial Hydro-static
1	67.27	129.14	Open To Flow (1)
31	337.17	154.60	Shut-In(1)
90	1090.23	151.47	End Shut-In(1)
90	340.21	151.07	Open To Flow (2)
150	640.93	154.47	Shut-In(2)
240	1034.51	151.67	End Shut-In(2)
243	2209.20	152.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1850.00	GO - 40%G - 60%o	24.26

* 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 Company

8-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67206

Jean #2-8

Job Ticket: 58254

DST#: 4

ATTN: Steve Miller

Test Start: 2014.06.04 @ 16:02:00

Tool Information

Drill Pipe:	Length: 4354.00 ft	Diameter: 3.80 inches	Volume: 61.08 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	110000.0 lb
			<u>Total Volume: 61.99 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4535.00 ft			Final	73000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	39.00 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			4509.00	
Shut In Tool	5.00			4514.00	
Hydraulic tool	5.00			4519.00	
Jars	5.00			4524.00	
Safety Joint	2.00			4526.00	
Packer	5.00			4531.00	27.00 Bottom Of Top Packer
Packer	4.00			4535.00	
Stubb	1.00			4536.00	
Recorder	0.00	6752	Inside	4536.00	
Recorder	0.00	8322	Outside	4536.00	
Perforations	35.00			4571.00	
Bullnose	3.00			4574.00	39.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

8-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita KS 67206

Jean #2-8

Job Ticket: 58254

DST#: 4

ATTN: Steve Miller

Test Start: 2014.06.04 @ 16:02:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 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
1850.00	GO - 40%G - 60%o	24.256

Total Length: 1850.00 ft Total Volume: 24.256 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

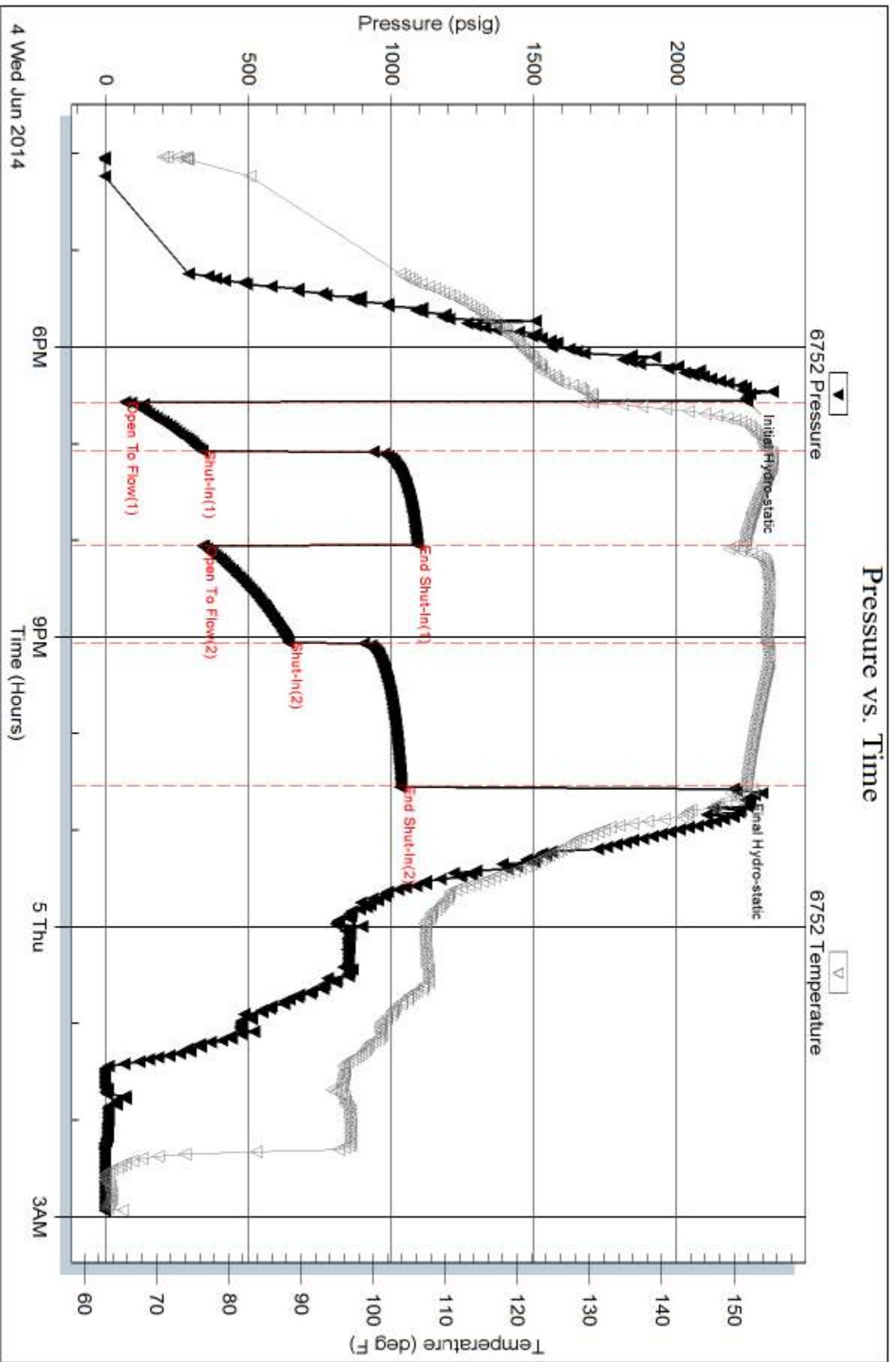
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 37 @ 70 DEG F = 36 COR 60 DEG F

Pressure vs. Time

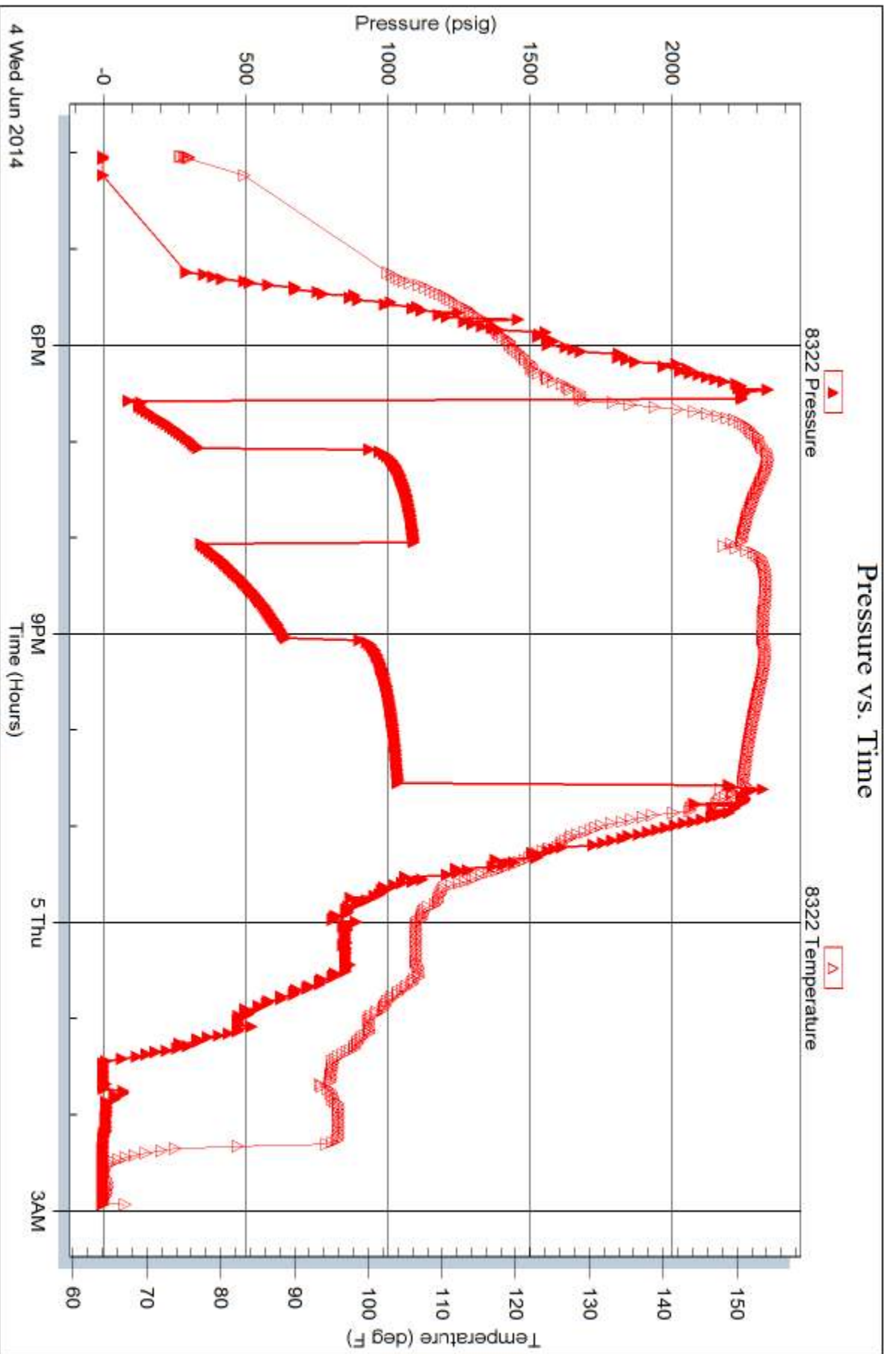


Serial #: 8322

Outside Murfin Drilling Company

Jean #2-8

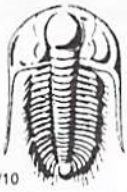
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 58254

Printed: 2014.06.09 @ 11:54:21



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58143

4/10

Well Name & No. Jean #2-8 Test No. 1 Date 6-1-14
 Company Murfin Drilling Co., Inc. Elevation 3212 KB 3207 GL
 Address 250 N. Water, STE 300 Wichita, KS 67202
 Co. Rep / Geo. Steve Miller Rig Murfin #8
 Location: Sec. 8 Twp. 1S Rge. 37W Co. Cheyenne State KS

Interval Tested 4036-4098 Zone Tested Oread
 Anchor Length '62' Drill Pipe Run 3856 Mud Wt. 9.1
 Top Packer Depth 4032 Drill Collars Run 186 Vis 57
 Bottom Packer Depth 4036 Wt. Pipe Run - WL 5.2
 Total Depth 4098 Chlorides 700 ppm System LCM 3
 Blow Description IF- Opened w/ surface blow, built to 6 1/2"
Ist- No Return
FF- Opened w/ surface blow, built to 10 1/2"
Fst- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>92</u>	<u>Mud</u>			<u>100</u>	
<u>248</u>	<u>MW</u>			<u>68</u>	<u>32</u>

Rec Total 340 BHT 136 Gravity _____ API RW .23 @ 75.3 °F Chlorides 28,000 ppm

(A) Initial Hydrostatic 1999 Test 1250 T-On Location 8:40 AM
 (B) First Initial Flow 18 Jars 250 T-Started 10:23 AM
 (C) First Final Flow 106 Safety Joint 75 T-Open 2:26 PM
 (D) Initial Shut-In 1273 Circ Sub _____ T-Pulled 6:26 PM
 (E) Second Initial Flow 108 Hourly Standby _____ T-Out 8:28 PM
 (F) Second Final Flow 168 Mileage 146 226.30 Comments _____
 (G) Final Shut-In 1191 Sampler _____
 (H) Final Hydrostatic 1985 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 1801.30
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1801.30

Approved By _____ Our Representative Bud O'K

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. 58252

Well Name & No. Jean #2-8 Test No. 2 Date 6/2/14
 Company Murfin Drilling Co. Elevation 3212 KB 3207 GL
 Address 250 N Water STE 300 Wichita KS 67206
 Co. Rep / Geo. Steve Miller Rig Murfin #8
 Location: Sec. 8 Twp. 1S Rge. 37W Co. Cheyenne State KS

Interval Tested 4114 - 4234 Zone Tested LKC "A-D"
 Anchor Length 120' Drill Pipe Run 3916' Mud Wt. 9.2
 Top Packer Depth 4109 Drill Collars Run 186' Vis 55
 Bottom Packer Depth 4114 Wt. Pipe Run 0' WL 5.6
 Total Depth 4234 Chlorides 900 ppm System LCM 2

Blow Description IF - 1/2" blow built to 5"
ISI - No return
FF - Surface blow built to BoB @ 35 mins
FSI - Surface blow built to 2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>95'</u>	<u>60</u>	<u>40</u>	<u>60</u>		
<u>121'</u>	<u>GOCM</u>	<u>15</u>	<u>25</u>		<u>60</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 216' BHT 135° Gravity 31 API RW — @ — ° F Chlorides — ppm

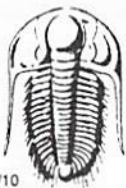
(A) Initial Hydrostatic 1994 Test 1250 T-On Location 09:15
 (B) First Initial Flow 19 Jars 250 T-Started 09:49
 (C) First Final Flow 57 Safety Joint 75 T-Open 12:27
 (D) Initial Shut-In 1353 Circ Sub NC T-Pulled 16:27
 (E) Second Initial Flow 70 Hourly Standby _____ T-Out 18:49
 (F) Second Final Flow 94 Mileage 146 RT 226.30 Comments 158' GIP
 (G) Final Shut-In 1289 Sampler _____
 (H) Final Hydrostatic 1938 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1801.30
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Sub Total 1801.30

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58253

Well Name & No. Jean #2-8 Test No. 3 Date 6/3/14
 Company Martin Drilling Co. Elevation 3212 KB 3207 GL
 Address 250 N. Water STE 300 Wichita KS 67206
 Co. Rep / Geo. Steve Miller Rig Martin #8
 Location: Sec. 8 Twp. 1S Rge. 37W Co. Cheyenne State KS

Interval Tested 4244 - 4376 Zone Tested LKC "G-J"
 Anchor Length 132' Drill Pipe Run 4041' Mud Wt. 9.2
 Top Packer Depth 4239 Drill Collars Run 186' Vis 67
 Bottom Packer Depth 4244 Wt. Pipe Run 0' WL 8.8
 Total Depth 4376 Chlorides 700 ppm System LCM 2

Blow Description IF - 1/2 blow built to 1 1/2"
ISI - No return
FF - No blow
FBI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>OCM</u>	<u>10</u>		<u>90</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 10' BHT 131° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2137 Test 1250 T-On Location 10:45
 (B) First Initial Flow 19 Jars 250 T-Started 11:06
 (C) First Final Flow 30 Safety Joint 75 T-Open 14:05
 (D) Initial Shut-In 671 Circ Sub NC T-Pulled 17:05
 (E) Second Initial Flow 27 Hourly Standby _____ T-Out 19:15
 (F) Second Final Flow 32 Mileage 146 RT 226.30 Comments _____
 (G) Final Shut-In 357 Sampler _____
 (H) Final Hydrostatic 1964 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 60 Extra Packer _____ Extra Copies _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 60 Day Standby _____ Total 1801.30
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1801.30

Approved By _____

Our Representative Steve Miller

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58254

Well Name & No. Jean #2-8 Test No. 4 Date 6/4/14
 Company Martin Drilling Co. Elevation 3212 KB 3207 GL
 Address 250 N. Water STE 300 Wichita KS 67206
 Co. Rep / Geo. Steve Miller Rig Martin #8
 Location: Sec. 8 Twp. 1S Rge. 37W Co. Cheyenne State KS

Interval Tested 4535 - 4574 Zone Tested Pawnee
 Anchor Length 39' Drill Pipe Run 4354' Mud Wt. 9.3
 Top Packer Depth 4530 Drill Collars Run 186' Vis 72
 Bottom Packer Depth 4535 Wt. Pipe Run 0' WL 8.8
 Total Depth 4574 Chlorides 600 ppm System LCM 2

Blow Description IF - 1" bbw built to BoB @ 3 mins
ISI - Surface blow built to BoB @ 12 mins
FF - Surface blow built to BoB @ 4 mins
FSI - Surface blow built to BoB @ 20 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>1850</u>	<u>GO</u>	<u>40</u>	<u>40</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 1850 BHT 152° Gravity 36 API RW @ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2247</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>15:00</u>
(B) First Initial Flow <u>67</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>16:02</u>
(C) First Final Flow <u>337</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>18:33</u>
(D) Initial Shut-In <u>1090</u>	<input checked="" type="checkbox"/> Circ Sub <u>used 50</u>	T-Pulled <u>22:33</u>
(E) Second Initial Flow <u>340</u>	<input checked="" type="checkbox"/> Hourly Standby <u>X 2 1h 100</u>	T-Out <u>02:56</u>
(F) Second Final Flow <u>641</u>	<input checked="" type="checkbox"/> Mileage <u>146 RT 226.30</u>	Comments <u>1600' GIP</u>
(G) Final Shut-In <u>1035</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2209</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>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1951.30</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1951.30</u>	

Approved By _____

Our Representative [Signature]

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acct.
Prod-MG

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 143505
Invoice Date: May 28, 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	63291	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	May 28, 2014	6/27/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Jean #2-8		
225.00	CEMENT MATERIALS	Class A Common	17.90	4,027.50
13.00	CEMENT MATERIALS	Chloride	40.00	520.00
236.25	CEMENT SERVICE	Cubic Feet Charge	2.48	585.90
980.10	CEMENT SERVICE	Ton Mileage Charge	2.60	2,548.26
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
90.00	CEMENT SERVICE	Pump Truck Mileage	7.70	693.00
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
90.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	396.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	EQUIPMENT OPERATOR	Wayne Mcghghy		

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

\$ 3,695.26

ONLY IF PAID ON OR BEFORE
Jun 27, 2014

Subtotal	10,557.91
Sales Tax	370.62
Total Invoice Amount	10,928.53
Payment/Credit Applied	
TOTAL	10,928.53

Original

ALLIED OIL & GAS SERVICES, LLC 063291

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Dakota, KS

DATE <u>5-28-19</u>	SEC. <u>8</u>	TWP. <u>1</u>	RANGE <u>37</u>	CALLED OUT	ON LOCATION <u>6:00 pm</u>	JOB START <u>7:00 pm</u>	JOB FINISH <u>2:30 pm</u>
LEASE <u>Jeon</u>	WELL # <u>2-8</u>	LOCATION <u>Bankelman, State Line Cheyenne KS</u>		COUNTY	STATE		
OLD OR NEW (Circle one)			<u>2E, 2S, E unit</u>				

CONTRACTOR Martin J OWNER Same

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 220'

CASING SIZE 8 3/8 DEPTH 220.64'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 2.5'

PERFS. _____

DISPLACEMENT 12,52661

CEMENT AMOUNT ORDERED 225 SKs com 38cc

COMMON 225 sks @ 12.90 4627.50

POZMIX @ _____

GEL @ _____

CHLORIDE (50) 13 sks @ ~~40.00~~ 520.00

ASC @ 7.00

EQUIPMENT

PUMP TRUCK CEMENTER LaRene B. Wank

422 HELPER Wayne McHugh

BULK TRUCK DRIVER Jam Mender (TWS)

373/308

BULK TRUCK DRIVER _____

Material total @ _____ 4,597.50

(1,591.62 / 35%)

HANDLING 236.25 pp @ 2.85 585.90

MILEAGE 10.87 truck 90 @ 2.60 2598.26

REMARKS:

Mix 225 sks cement

Displace with water

Cement did circulate

205 Ks to pit

SERVICE

DEPTH OF JOB 220.64'

PUMP TRUCK CHARGE _____ 1512.25

EXTRA FOOTAGE @ _____

MILEAGE MFLU 90 @ 7.70 693.00

MANIFOLD se wage @ 275.00

MFLU 90 @ 4.90 396.00

(210364/35%) 6,010.91

TOTAL _____

CHARGE TO: Martin

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

(0.00) 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 10,552.91

DISCOUNT 3,695.24 / 35% IF PAID IN 30 DAYS

6,862.64 Net

PRINTED NAME Rodney Farr

SIGNATURE Rodney Farr



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

Invoice

DATE	INVOICE #
6/6/2014	26658

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661
USED FOR <u>1C 103</u>
APPROVED <u>[Signature]</u>

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-8	Jean	Cheyenne		Oil	Development	5-1/2" Top To B...	Josh
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				180	Miles	6.00	1,080.00
579D	Pump Charge - Top To Bottom LongString				1	Job	2,000.00	2,000.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
290	D-Air				10	Gallon(s)	42.00	420.00T
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				5	Each	40.00	200.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				200	Sacks	14.50	2,900.00T
330	Swift Multi-Density Standard (MIDCON II)				300	Sacks	18.50	5,550.00T
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
581D	Service Charge Cement				500	Sacks	2.00	1,000.00
583D	Drayage				4,577	Ton Miles	1.00	4,577.00
	Subtotal							23,054.50
	Sales Tax Cheyenne County						8.15%	1,173.40
We Appreciate Your Business!							Total	\$24,227.90



CHARGE TO: Murkin
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 26658

PAGE 1 OF 2

SERVICE LOCATIONS

1. Haystack WELLS/PROJECT NO. 2.8 LEASE Sean COUNTY/PARISH Bayoune STATE LS CITY Location DATE 6-6-14 OWNER

2. Ness City, LA WELLS/PROJECT NO. 0.1 LEASE Development COUNTY/PARISH 5 1/2 Top to Bottom long strings STATE LA CITY Location DATE 6-6-14 OWNER

3. 0.1 WELLS/PROJECT NO. 0.1 LEASE Development COUNTY/PARISH 5 1/2 Top to Bottom long strings STATE LA CITY Location DATE 6-6-14 OWNER

4. 0.1 WELLS/PROJECT NO. 0.1 LEASE Development COUNTY/PARISH 5 1/2 Top to Bottom long strings STATE LA CITY Location DATE 6-6-14 OWNER

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
			ACCT	DF								
575		1				4112	182	m3			6.00	1082.00
579		1			Pump Charge Top to Bottom		1	ea			2000.00	2000.00
221		1			Logcut KLL		4	gal			2.50	10.00
281		1			Mud Plush		500	gal			1.25	625.00
280		1			D-Air		100	gal			4.20	420.00
403		1			Cement Gasket		3	ea			300.00	900.00
406		1			Leath Down Plug + Gellie		1	ea			225.00	225.00
407		1			Insux Plat Shoe w/Amb Cell		1	ea			375.00	375.00
409		1			Turbillizers		15	ea			9.00	135.00
413		1			Roto wall Scrapers		5	ea			40.00	200.00
419		1			Rotkins Lead Rental		1	ea			200.00	200.00

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.

X [Signature] DATE SIGNED 6-6-14 TIME SIGNED 0430 A.M. P.M.

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 92 P1 7525 P2 15529 P3 15529 TOTAL 24,227.90

Subtotal 23,054.50
 Cheyenne TAX 9%
 8.15% 1,173.40

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR [Signature] APPROVAL [Signature]

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 26658

CUSTOMER
Muth

WELL Jean 2-8

DATE 6-6-14

PAGE 21 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY	U/M			QTY
325						Standard Lumber EA2	200	Sks	14.50	2900.00	
330						Swift Multi Density	300	Sks	18.50	5550.00	
276						Ascele	125	Lbs	2.50	312.50	
283						S411	1000	Lbs	20.00	2000.00	
284						Cal seal	9	Sks	35.00	315.00	
285						CPA-1	150	Lbs	4.50	675.00	
581						SEVICE CHARGE			2.00	1000.00	
583						MILEAGE CHARGE			4577.00	4577.00	
MILEAGE CHARGE TOTAL WEIGHT 50855 LOADED MILES 180 CURRIC FEET 500 TON MILES 4577											

CONTINUATION TOTAL 15524.50

JOB LOG

SWIFT Services, Inc.

DATE 6-6-14 PAGE NO.

CUSTOMER Murfin WELL NO. 2-8 LEASE Dean JOB TYPE 5 1/2" top to Bottom TICKET NO. 26658

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0430							on location w/FE
								TP 4750 55 24
								TP 4743 Insert 4719
								Centralizers 1-13, 34, 44
								Cement Baskets 11, 35, 45
	0730							Start pipe
								Break circulation
	1030							Drop Ball circulate Rotate
	1230							
	1245		7/5					Plug MH 30 sks, MH 20 sks
	1355	5	12		✓		300	Start Mud Flush
		5	20		✓		300	Start KCL Flush
	1305	5	138		✓		200	Start SMD Cement 250 sks
		5	48		✓		200	Start EA-2 Cement 200 sks
	1340							Drop Plug
								Wash out Pump & Lines
	1343	6.5	20		✓			Start Displacement w/ 20 BBI KCL
		6.5			✓			Finish w/H ₂ O
		6.5			✓		1100	Circulate Cement Cement in Cellar
	1400		112.3		✓		1200 / 1500	Land Plug Hold
								Release Dry
								Wash up Pack up
	1445							Job Complete
								Thank You
								Josh, Brian, Rob,

Jean #2-8
 Daily Drilling Report
 Page Two

- 6/4/14 Depth 4530'. Cut 175'. DT: 1½ hrs drlg line. CT: 13¾ hrs. Dev.: None. **DST #3 4244-4376 (LKC G-J):** 30-60-30-60. IF: ½" blw built to 1½". FF: No blw. Rec.: 10'OCM (10%O, 90%M). HP: 2137-1964. FP: 19/30, 27/32. SIP: 671-357. BHT: 131°. **Pawnee:** Ls, crm, fn xln, v oolitic, Sl foss, pr-fr inter oolitic por, pr inter foss por, sl SFO, gassy, no odor, sptd lt brn & asphaltic stn, 3-4' drlg brk. **DST#4 4535-4574 (Pawnee):**
- 6/5/14 Depth 4600'. Cut 70'. DT: None. CT: 19¼ hrs. Dev.: None. **DST#4 4535-4574 (Pawnee):** 30-60-60-90. IF: BOB 3 min. ISI: BOB 12 min. FF: BOB 4 min. FSI: BOB 20 min. Rec.: 1600' GIP, 1850' GO 36° API. HP: 2247-2209. FP: 67/337, 340/641. SIP: 1090-1035. BHT: 152°.
- 6/6/14 RTD 4750'. Cut 150'. DT: none. CT: 18 hrs. Dev.: 1 ½° @ 4750'. HC @ 1:00 PM 6/5/14. Pioneer logged from 6:30 PM to 11:00 PM 6/5/14, LTD @ 4751'. Running 5 ½" prod csg.
- 6/7/14 RTD: 4750'. CT: 11hrs. Ran 115jts of 15.5# 5 ½" prod csg, set @ 4743'. Swift cmt w/450sxs (250SMD, 200EA2). PD @ 2:00PM 6/6. 30sxs RH, 20sxs MH. Circ to cellar. RR @ 6:00PM 6/6/14. FINAL REPORT

MDCI Jean #2-8 660' FSL 1980' FEL Sec. 8-T1S-R37W 3212' KB							MDCI Jean #1-8 660' FSL 660' FEL Sec. 8-T1S-R37W 3219' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3159	+53	+2	3158	+54	+3	3168	+51
B/Anhydrite	3193	+19	+1	3194	+18	Flat	3201	+18
Neva	3611	-399	+6	3612	-400	+5	3624	-405
Red Eagle	3677	-465	+2	3675	-463	+4	3686	-467
Foraker	3722	-510	+4	3722	-510	+4	3733	-514
Topeka	3950	-738	Flat	3945	-733	+5	3957	-738
Oread	4086	-874	Flat	4078	-866	+8	4093	-874
Lansing	4162	-950	+3	4158	-946	+7	4172	-953
Stark	4388	-1176	-3	4377	-1165	+8	4392	-1173
BKC	4437	-1225	+5	4433	-1221	+9	4449	-1230
Pawnee	4559	-1347	+4	4554	-1342	+9	4570	-1351
Cherokee	4642	-1430	+8	4642	-1430	+8	4657	-1438
RTD	4750	-1538					4770	
LTD				4751	-1539		4767	-1548