



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1224320
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: _____

1224320

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> _____				
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 3-8
Doc ID	1224320

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: Clayton Erickson

Jean #3-8

8-1S-37W Cheyenne,KS

Start Date: 2014.06.16 @ 11:34:00

End Date: 2014.06.16 @ 19:54:00

Job Ticket #: 58257 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.24 @ 14:49:47



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

8-1S-37W Cheyenne, KS

250 N. Water STE 300
Wichita KS 67206

Jean #3-8

Job Ticket: 58257

DST#: 1

ATTN: Clayton Erickson

Test Start: 2014.06.16 @ 11:34:00

GENERAL INFORMATION:

Formation: **Douglas Sand -LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:41:00

Time Test Ended: 19:54:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 58

Interval: **4175.00 ft (KB) To 4310.00 ft (KB) (TVD)**

Reference Elevations: 3283.00 ft (KB)

Total Depth: 4310.00 ft (KB) (TVD)

3273.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6752

Inside

Press@RunDepth: 172.80 psig @ 4176.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.16

End Date:

2014.06.16

Last Calib.:

2014.06.16

Start Time: 11:34:01

End Time:

19:54:00

Time On Btm:

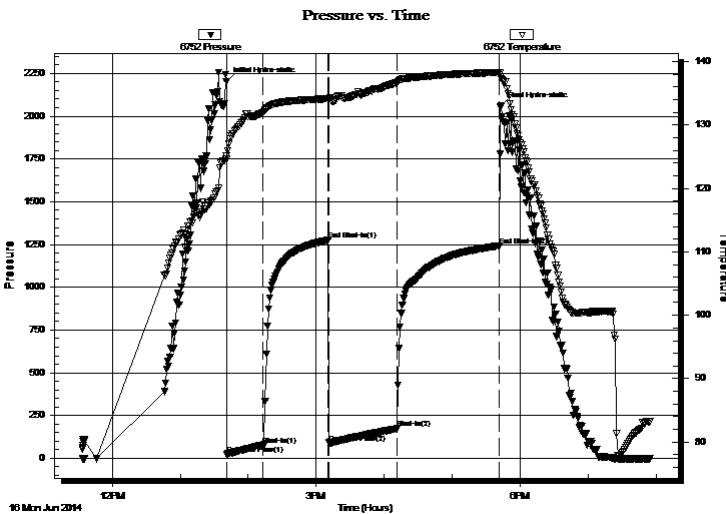
2014.06.16 @ 13:40:40

Time Off Btm:

2014.06.16 @ 17:42:30

TEST COMMENT: 30 IF - 1/2" blow built to 1 1/2"
60 ISI - No return
60 FF - Surface blow started @ 3 mins built to 1 1/2"
90 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2204.13	125.16	Initial Hydro-static
1	24.08	124.60	Open To Flow (1)
33	77.69	131.96	Shut-In(1)
90	1274.95	134.15	End Shut-In(1)
91	90.38	133.96	Open To Flow (2)
151	172.80	136.73	Shut-In(2)
241	1243.09	138.31	End Shut-In(2)
242	2053.65	137.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OMCW - 5%o - 40%M - 55%W	0.44
180.00	OMCW - 10%o - 40%M - 50%W	0.89
60.00	OWCM - 20%o - 40%W - 40%M	0.30

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 #3-8

Job Ticket: 58257

DST#: 1

ATTN: Clayton Erickson

Test Start: 2014.06.16 @ 11:34:00

Tool Information

Drill Pipe:	Length: 3616.00 ft	Diameter: 3.80 inches	Volume: 50.72 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: 556.00 ft	Diameter: 2.25 inches	Volume: 2.73 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 53.45 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	4175.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	135.00 ft				
Tool Length:	162.00 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			4149.00	
Shut In Tool	5.00			4154.00	
Hydraulic tool	5.00			4159.00	
Jars	5.00			4164.00	
Safety Joint	2.00			4166.00	
Packer	5.00			4171.00	27.00 Bottom Of Top Packer
Packer	4.00			4175.00	
Stubb	1.00			4176.00	
Recorder	0.00	6752	Inside	4176.00	
Recorder	0.00	8322	Outside	4176.00	
Perforations	34.00			4210.00	
Change Over Sub	1.00			4211.00	
Drill Pipe	95.00			4306.00	
Change Over Sub	1.00			4307.00	
Bullnose	3.00			4310.00	135.00 Bottom Packers & Anchor

Total Tool Length: 162.00



**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 #3-8

Job Ticket: 58257

DST#: 1

ATTN: Clayton Erickson

Test Start: 2014.06.16 @ 11:34:00

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:

23000 ppm

Viscosity: 80.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	OMCW - 5%o - 40%M - 55%W	0.443
180.00	OMCW - 10%o - 40%M - 50%W	0.885
60.00	OWCM - 20%o - 40%W - 40%M	0.295

Total Length: 330.00 ft Total Volume: 1.623 bbl

Num Fluid Samples: 0

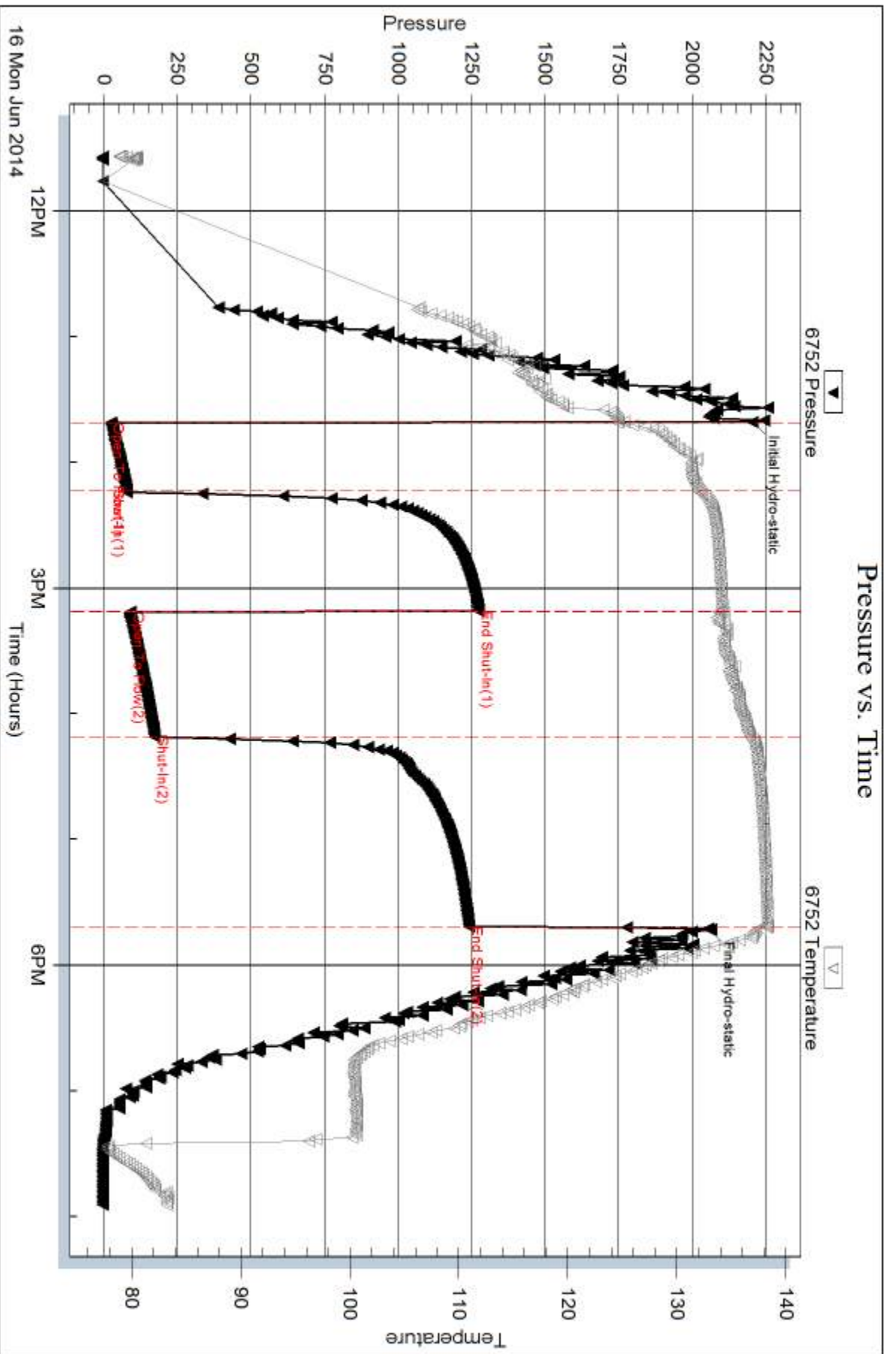
Num Gas Bombs: 0

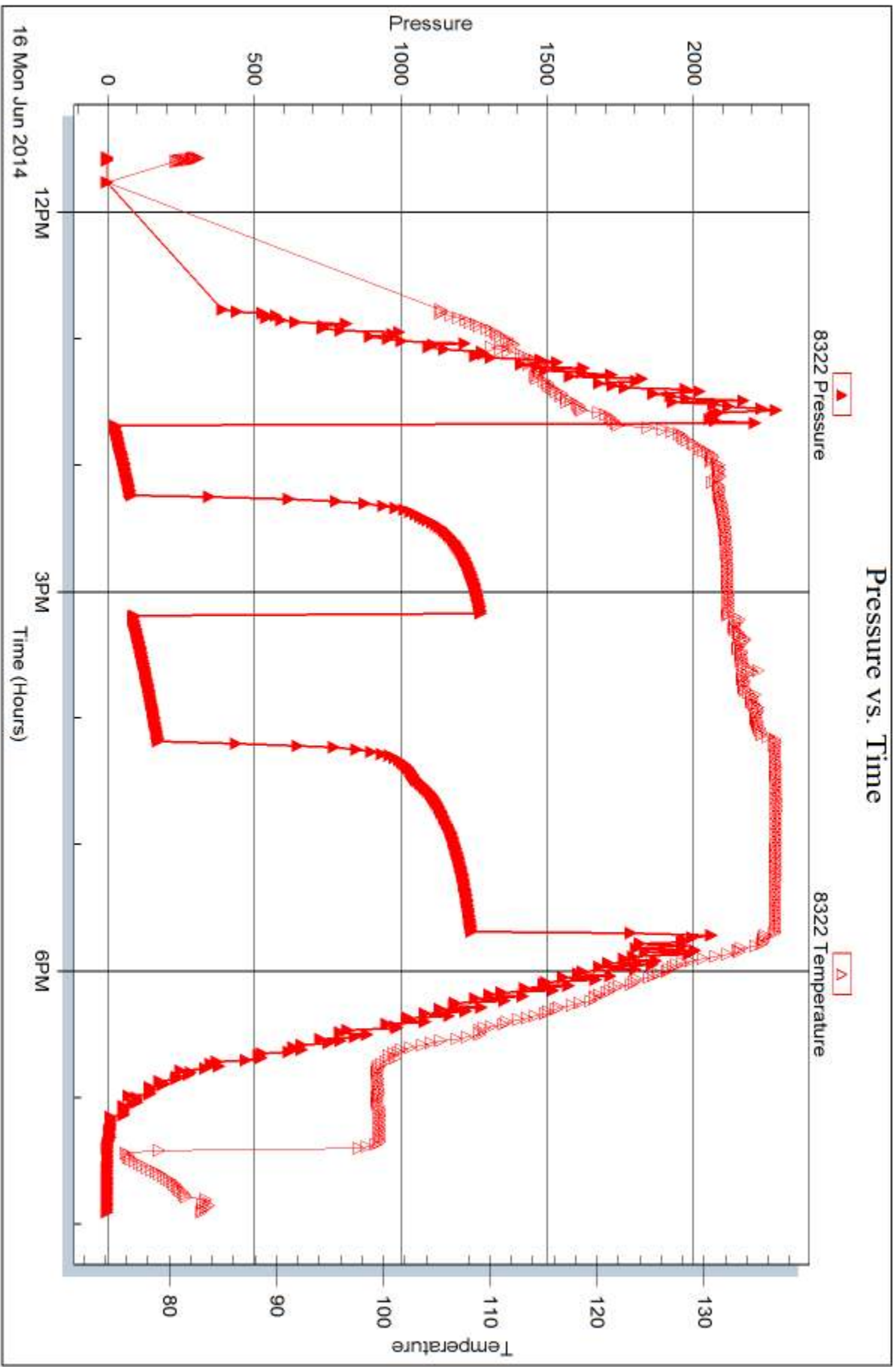
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .273 @ 76 DEG F







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N. Water STE 300
Wichita KS 67206

ATTN: Clayton Erickson

Jean #3-8

8-1S-37W Cheyenne,KS

Start Date: 2014.06.17 @ 15:12:00

End Date: 2014.06.18 @ 00:07:10

Job Ticket #: 58258 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.24 @ 14:49:25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

8-1S-37W Cheyenne, KS

250 N. Water STE 300
Wichita KS 67206

Jean #3-8

Job Ticket: 58258

DST#: 2

ATTN: Clayton Erickson

Test Start: 2014.06.17 @ 15:12:00

GENERAL INFORMATION:

Formation: **LKC " G - J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:51:30

Time Test Ended: 00:07:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 58

Interval: 4307.00 ft (KB) To 4465.00 ft (KB) (TVD)

Reference Elevations: 3283.00 ft (KB)

Total Depth: 4465.00 ft (KB) (TVD)

3273.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6752

Inside

Press@RunDepth: 153.57 psig @ 4308.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.17

End Date:

2014.06.18

Last Calib.:

2014.06.18

Start Time: 15:12:01

End Time:

00:07:10

Time On Btm:

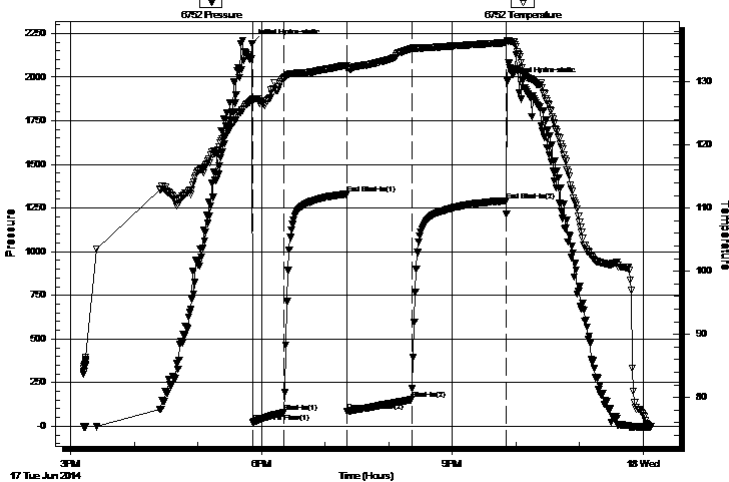
2014.06.17 @ 17:51:00

Time Off Btm:

2014.06.17 @ 21:52:00

TEST COMMENT: 30 IF - 1/4" blow built to 3"
60 ISI - No return
60 FF - Surface blow started @ 20 mins built to 2"
90 FSI - No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2191.66	127.09	Initial Hydro-static
1	22.21	126.95	Open To Flow (1)
31	78.53	130.65	Shut-In(1)
90	1330.19	132.57	End Shut-In(1)
90	84.64	132.10	Open To Flow (2)
151	153.57	135.26	Shut-In(2)
240	1291.48	136.18	End Shut-In(2)
241	1976.75	136.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OWCM - 20%o - 35%W - 45%M	0.44
90.00	OCM - 5%o - 95%M	0.44
90.00	OCM - 30%o - 70%M	0.44
10.00	OCM - 50%o - 50%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 #3-8

Job Ticket: 58258

DST#: 2

ATTN: Clayton Erickson

Test Start: 2014.06.17 @ 15:12:00

Tool Information

Drill Pipe:	Length: 3745.00 ft	Diameter: 3.80 inches	Volume: 52.53 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: 556.00 ft	Diameter: 2.25 inches	Volume: 2.73 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 55.26 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	4307.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	158.00 ft				
Tool Length:	185.00 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			4291.00	
Jars	5.00			4296.00	
Safety Joint	2.00			4298.00	
Packer	5.00			4303.00	27.00 Bottom Of Top Packer
Packer	4.00			4307.00	
Stubb	1.00			4308.00	
Recorder	0.00	6752	Inside	4308.00	
Recorder	0.00	8322	Outside	4308.00	
Perforations	25.00			4333.00	
Change Over Sub	1.00			4334.00	
Drill Pipe	127.00			4461.00	
Change Over Sub	1.00			4462.00	
Bullnose	3.00			4465.00	158.00 Bottom Packers & Anchor

Total Tool Length: 185.00



**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 #3-8

Job Ticket: 58258

DST#: 2

ATTN: Clayton Erickson

Test Start: 2014.06.17 @ 15:12:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 69.00 sec/qt

Water Loss: 5.99 in³

Resistivity: ohm.m

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	OWCM - 20%o - 35%W - 45%M	0.443
90.00	OCM - 5%o - 95%M	0.443
90.00	OCM - 30%o - 70%M	0.443
10.00	OCM - 50%o - 50%M	0.049

Total Length: 280.00 ft Total Volume: 1.378 bbl

Num Fluid Samples: 0

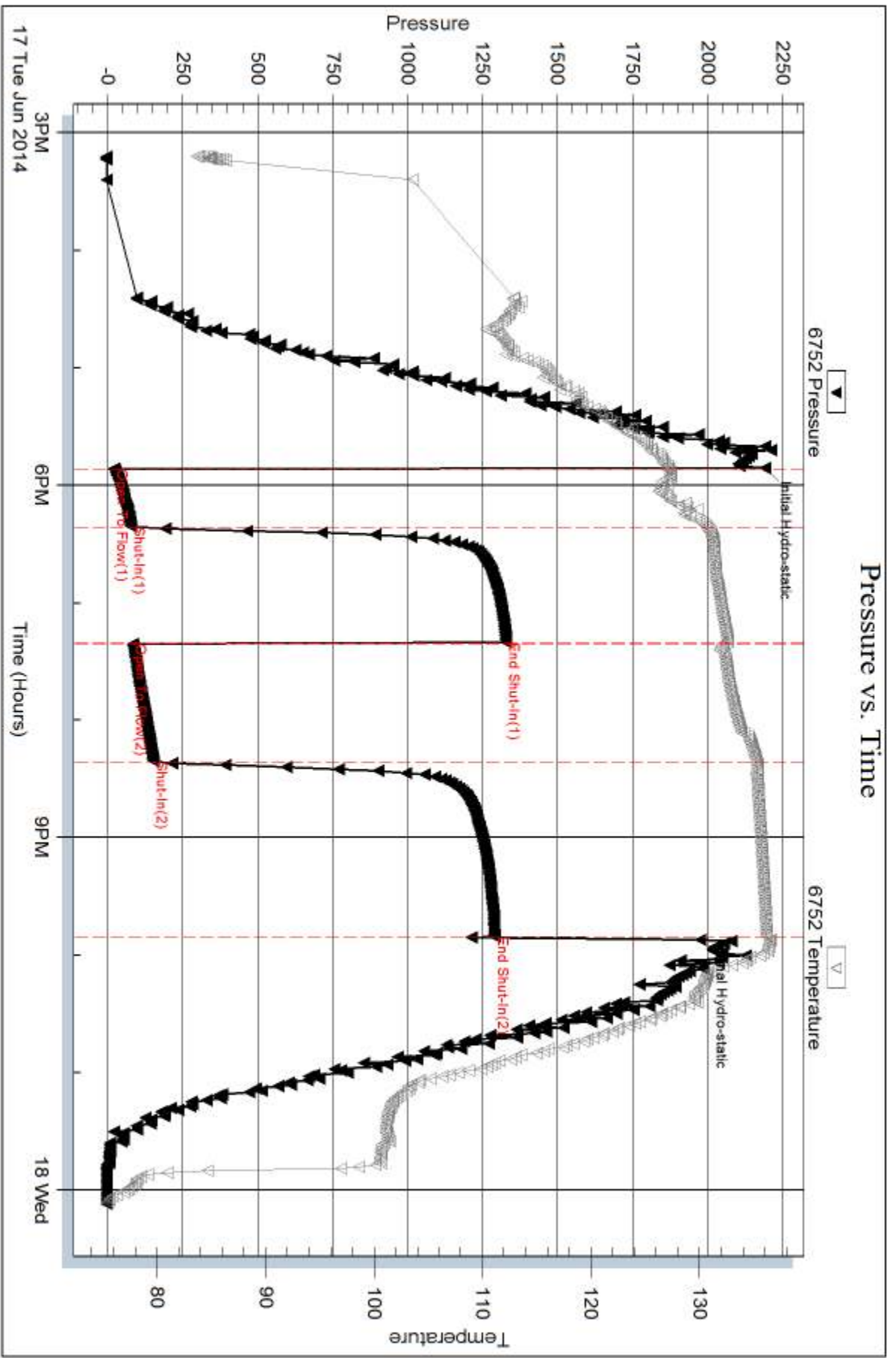
Num Gas Bombs: 0

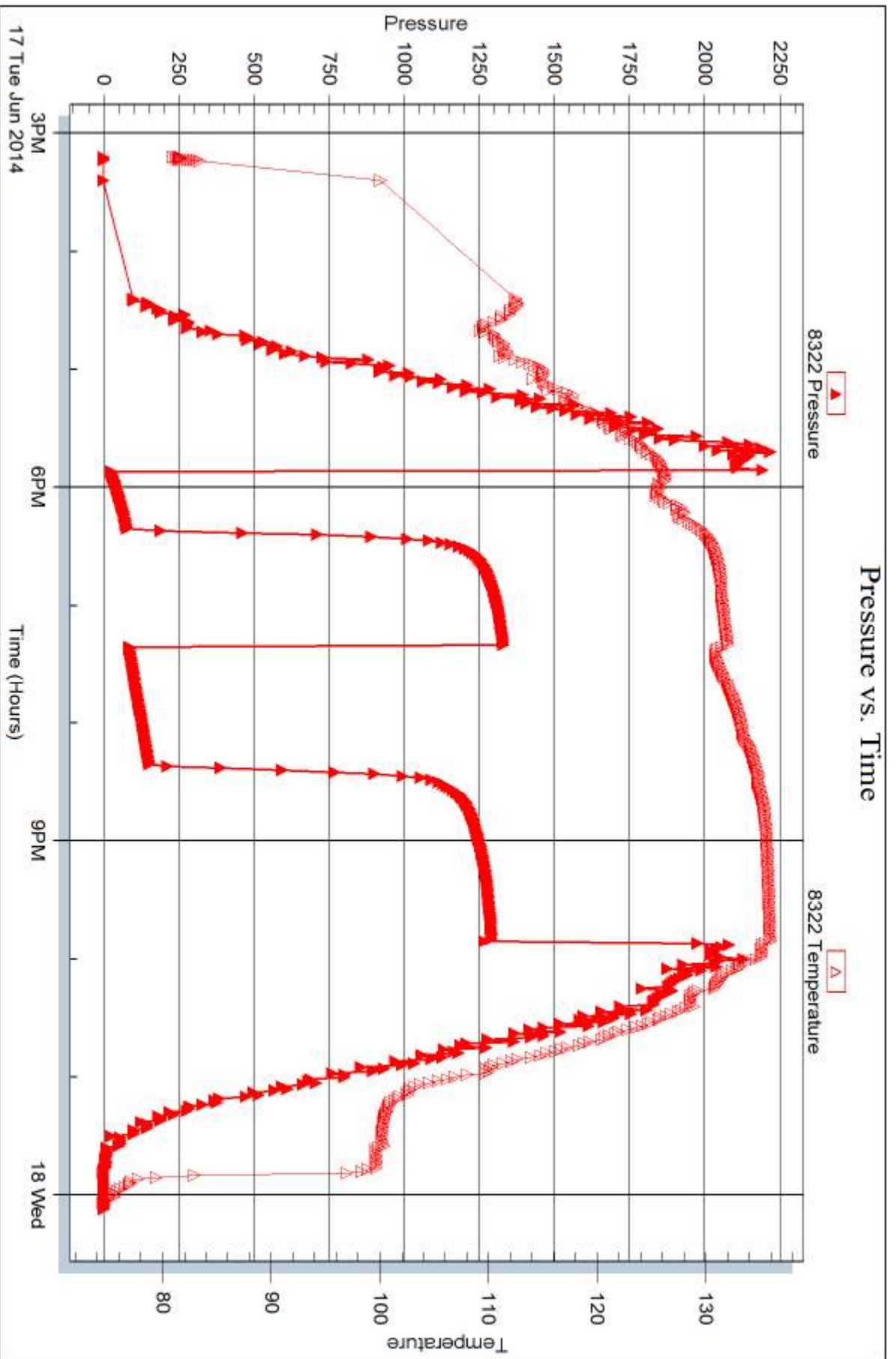
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N. Water STE 300
Wichita KS 67206

ATTN: Clayton Erickson

Jean #3-8

8-1S-37W Cheyenne,KS

Start Date: 2014.06.18 @ 20:03:00

End Date: 2014.06.19 @ 05:11:00

Job Ticket #: 58259 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.24 @ 14:48:35



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company

8-1S-37W Cheyenne, KS

250 N. Water STE 300
Wichita KS 67206

Jean #3-8

Job Ticket: 58259

DST#: 3

ATTN: Clayton Erickson

Test Start: 2014.06.18 @ 20:03:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:22:20

Time Test Ended: 05:11:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 58

Interval: 4614.00 ft (KB) To 4662.00 ft (KB) (TVD)

Reference Elevations: 3283.00 ft (KB)

Total Depth: 4662.00 ft (KB) (TVD)

3273.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8322 Outside

Press@RunDepth: 271.65 psig @ 4615.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.18

End Date:

2014.06.19

Last Calib.:

2014.06.19

Start Time: 20:03:01

End Time:

05:11:00

Time On Btm:

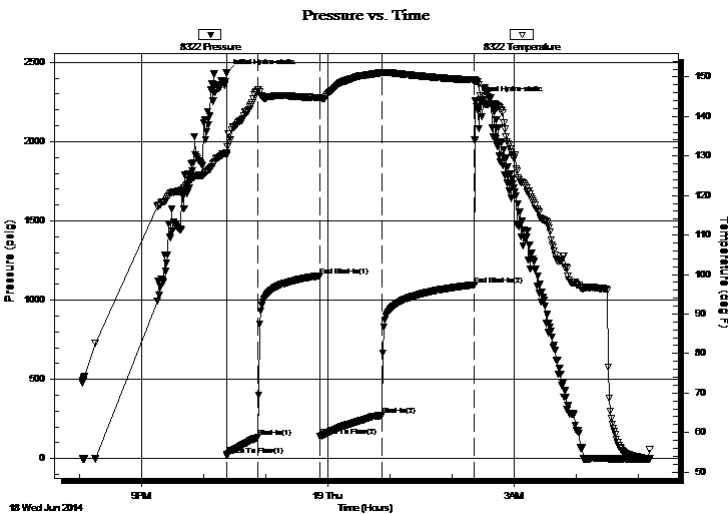
2014.06.18 @ 22:21:50

Time Off Btm:

2014.06.19 @ 02:22:10

TEST COMMENT: 30 IF - 1/4" blow built to 5 1/2"
60 ISI - No return
60 FF - Surface blow started @ 16 mins built to 4"
90 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2433.14	130.72	Initial Hydro-static
1	21.56	130.22	Open To Flow (1)
31	133.61	146.82	Shut-In(1)
91	1153.68	144.76	End Shut-In(1)
91	139.32	144.49	Open To Flow (2)
151	271.65	151.08	Shut-In(2)
240	1096.83	149.22	End Shut-In(2)
241	2256.98	148.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	free oil in tool	0.00
370.00	MCW - 20%M - 80%W	1.82
186.00	MCW - 40%M - 60%W	0.91
24.00	MCW - 30%M - 70%W	0.34

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company

8-1S-37W Cheyenne, KS

250 N. Water STE 300
Wichita KS 67206

Jean #3-8

Job Ticket: 58259

DST#: 3

ATTN: Clayton Erickson

Test Start: 2014.06.18 @ 20:03:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:22:20

Time Test Ended: 05:11:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 58

Interval: 4614.00 ft (KB) To 4662.00 ft (KB) (TVD)

Reference Elevations: 3283.00 ft (KB)

Total Depth: 4662.00 ft (KB) (TVD)

3273.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6752 Inside

Press@RunDepth: psig @ 4615.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.18

End Date:

2014.06.19

Last Calib.:

2014.06.19

Start Time: 20:03:01

End Time:

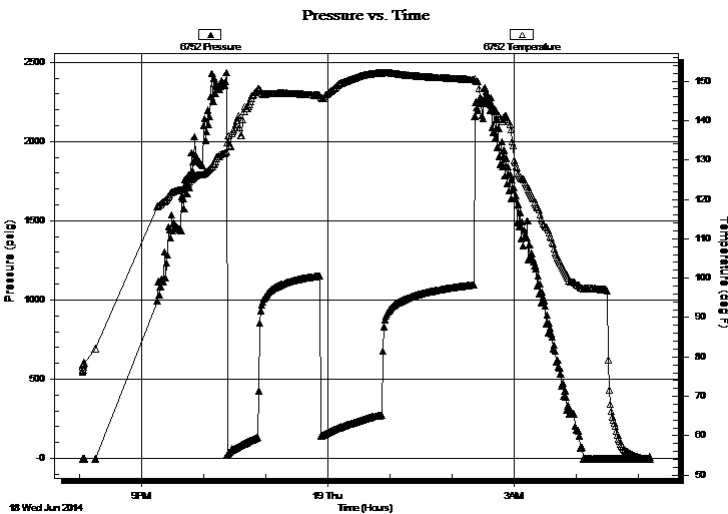
05:11:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF - 1/4" blow built to 5 1/2"
60 ISI - No return
60 FF - Surface blow started @ 16 mins built to 4"
90 FSI - No return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	free oil in tool	0.00
370.00	MCW - 20%M - 80%W	1.82
186.00	MCW - 40%M - 60%W	0.91
24.00	MCW - 30%M - 70%W	0.34

* 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 #3-8

Job Ticket: 58259

DST#: 3

ATTN: Clayton Erickson

Test Start: 2014.06.18 @ 20:03:00

Tool Information

Drill Pipe:	Length: 4062.00 ft	Diameter: 3.80 inches	Volume: 56.98 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: 556.00 ft	Diameter: 2.25 inches	Volume: 2.73 bbl	Weight to Pull Loose:	78000.00 lb
			<u>Total Volume: 59.71 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	82000.00 lb
Depth to Top Packer:	4614.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	48.00 ft				
Tool Length:	75.00 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			4588.00	
Shut In Tool	5.00			4593.00	
Hydraulic tool	5.00			4598.00	
Jars	5.00			4603.00	
Safety Joint	2.00			4605.00	
Packer	5.00			4610.00	27.00 Bottom Of Top Packer
Packer	4.00			4614.00	
Stubb	1.00			4615.00	
Recorder	0.00	6752	Inside	4615.00	
Recorder	0.00	8322	Outside	4615.00	
Perforations	10.00			4625.00	
Change Over Sub	1.00			4626.00	
Drill Pipe	32.00			4658.00	
Change Over Sub	1.00			4659.00	
Bullnose	3.00			4662.00	48.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**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 #3-8

Job Ticket: 58259

DST#: 3

ATTN: Clayton Erickson

Test Start: 2014.06.18 @ 20:03:00

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:

26000 ppm

Viscosity: 78.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
0.00	free oil in tool	0.000
370.00	MCW - 20%M - 80%W	1.820
186.00	MCW - 40%M - 60%W	0.915
24.00	MCW - 30%M - 70%W	0.337

Total Length: 580.00 ft Total Volume: 3.072 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

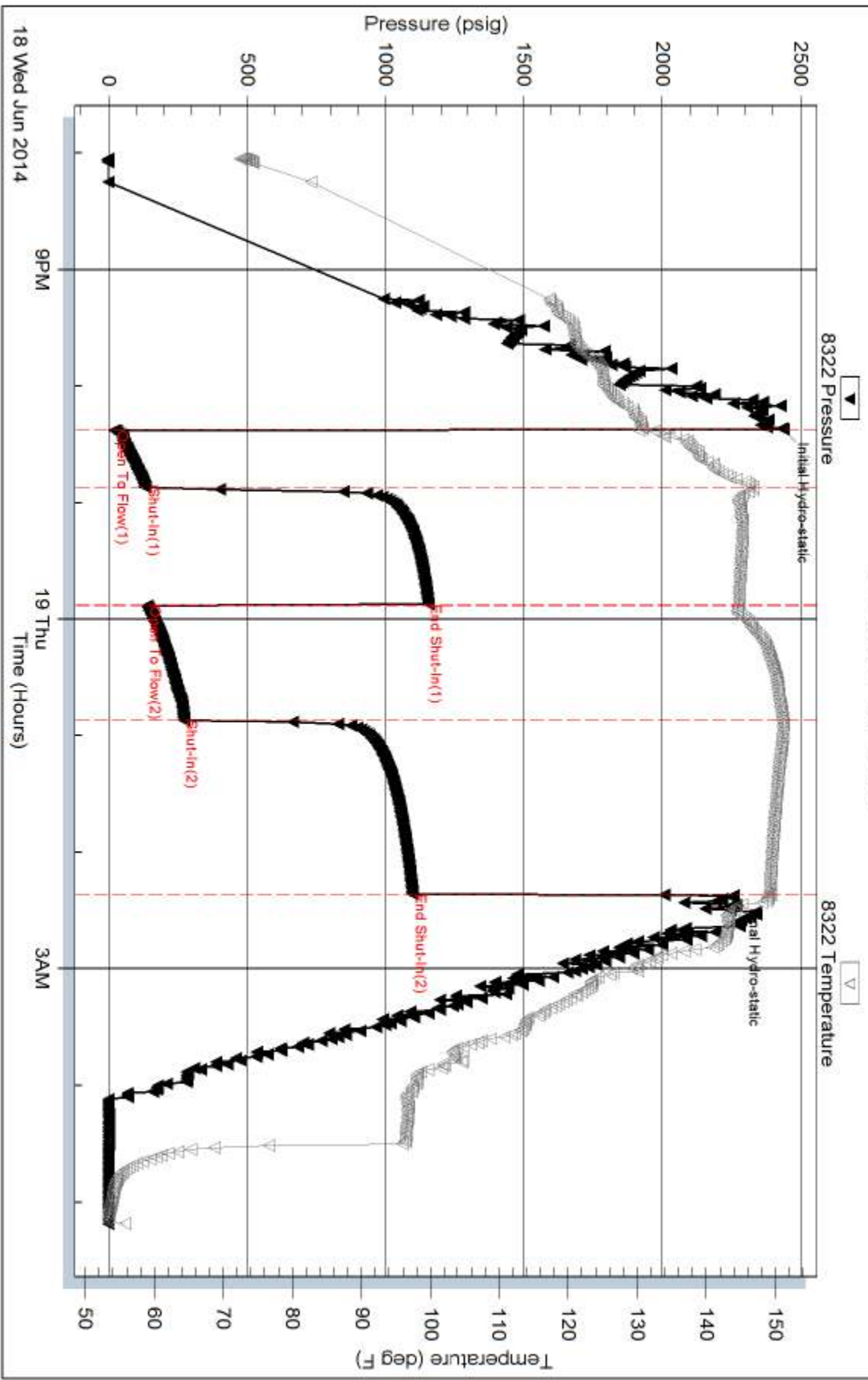
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .318 @ 57 DEG F

Pressure vs. Time



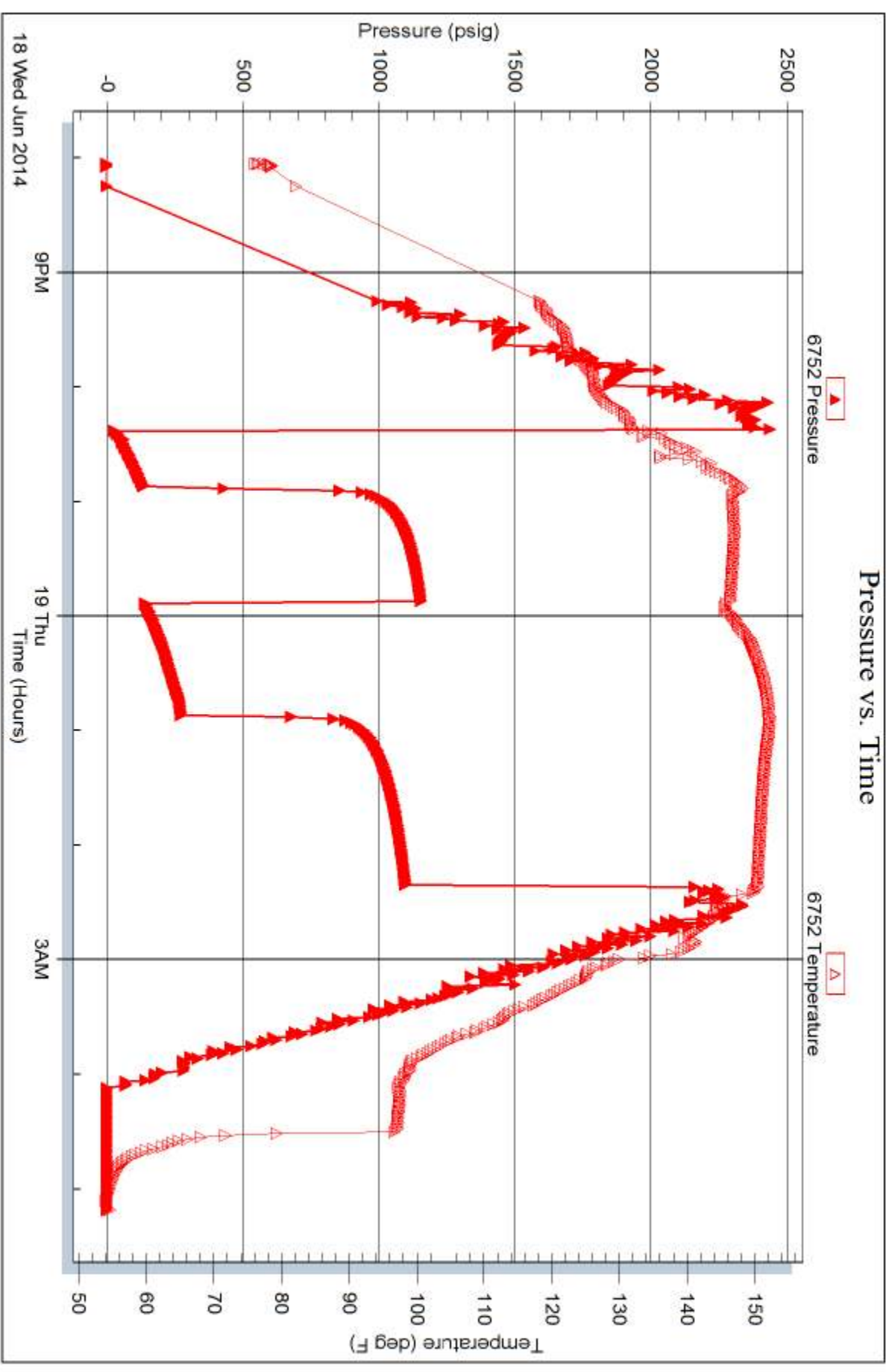
Serial #: 6752

Inside

Murfin Drilling Company

Jean #3-8

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58259

Printed: 2014.06.24 @ 14:48:36



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58257

Well Name & No. Jean #3-8 Test No. 1 Date 6/16/14
 Company Murfin Drilling Co. Elevation 3283 KB 3273 GL
 Address 250 N. Water STE 300 Wichita KS 67206
 Co. Rep / Geo. Clayton Erickson Rig Murfin #14
 Location: Sec. 8 Twp. 15 Rge. 37W Co. Cheyenne State KS

Interval Tested 4175 - 4310 Zone Tested Douglas Sand & 2KC "A-D"
 Anchor Length 135' Drill Pipe Run 3616' Mud Wt. 9.01
 Top Packer Depth 4170 Drill Collars Run 556' Vis 80
 Bottom Packer Depth 4175 Wt. Pipe Run 0 WL 6.8
 Total Depth 4310 Chlorides 800 ppm System LCM 8
 Blow Description IF - 1/2" blow built to 1 1/2"
ISI - No return
FF - Surface blow started @ 3 mins built to 1 1/2"
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>OWCM</u>	<u>20</u>	<u>40</u>	<u>40</u>	
<u>90</u>	<u>OMCW</u>	<u>10</u>	<u>50</u>	<u>40</u>	
<u>90</u>	<u>OMCW</u>	<u>10</u>	<u>50</u>	<u>40</u>	
<u>90</u>	<u>OMCW</u>	<u>5</u>	<u>55</u>	<u>40</u>	

Rec Total 330' BHT 1380 Gravity — API RW : 273 @ 76 °F Chlorides 23,000 ppm

(A) Initial Hydrostatic 2204 Test 1250 T-On Location 11:00
 (B) First Initial Flow 24 Jars 250 T-Started 11:34
 (C) First Final Flow 78 Safety Joint 75 T-Open 13:41
 (D) Initial Shut-In 1275 Circ Sub NC T-Pulled 17:41
 (E) Second Initial Flow 90 Hourly Standby _____ T-Out 19:54
 (F) Second Final Flow 173 Mileage 130 RT 201.50 Comments _____
 (G) Final Shut-In 1243 Sampler _____ Ruined Shale Packer _____
 (H) Final Hydrostatic 2054 Straddle _____ Ruined Packer _____
 Shale Packer _____ Extra Copies _____
 Extra Packer _____ Extra Recorder _____ Sub Total 0
 Extra Recorder _____ Total 1776.50
 Day Standby _____ MP/DST Disc't _____
 Accessibility _____ Sub Total 1776.50

Approved By _____

Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58258

Well Name & No. Jean # 3-8 Test No. 2 Date 6/17/14
 Company Murfin Drilling Co. Elevation 3283 KB 3273 GL
 Address 250 N. Water STE 300 Wichita KS 67206
 Co. Rep / Geo. Clayton Erickson Rig Martin #14
 Location: Sec. 8 Twp. 15 Rge. 37W Co. Cheyenne State KS

Interval Tested 4307 - 4465 Zone Tested LKC "G-J"
 Anchor Length 158' Drill Pipe Run 3745' Mud Wt. 9.1
 Top Packer Depth 4302 Drill Collars Run 556' Vis 69
 Bottom Packer Depth 4307 Wt. Pipe Run 0' WL 6.0
 Total Depth 4465 Chlorides 800 ppm System LCM 8

Blow Description IF - 1/4" blow built to 3"
ISI - No return
FF - Surface blow started @ 20 mins built to 2"
FSE - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>OCM</u>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>
<u>90</u>	<u>OCM</u>	<u>30</u>	<u>70</u>	<u>70</u>	<u>70</u>
<u>90</u>	<u>OCM</u>	<u>5</u>	<u>95</u>	<u>95</u>	<u>95</u>
<u>90</u>	<u>OWCM</u>	<u>20</u>	<u>35</u>	<u>45</u>	<u>45</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 280' BHT 136° Gravity — API RW — @ — °F Chlorides — ppm

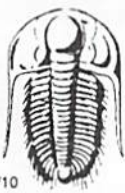
- (A) Initial Hydrostatic 2192 Test 1250
- (B) First Initial Flow 22 Jars 250
- (C) First Final Flow 79 Safety Joint 75
- (D) Initial Shut-In 1330 Circ Sub NC
- (E) Second Initial Flow 85 Hourly Standby —
- (F) Second Final Flow 154 Mileage 130 RT 201.50
- (G) Final Shut-In 1291 Sampler —
- (H) Final Hydrostatic 1977 Straddle —
- Initial Open 30 Shale Packer —
- Initial Shut-In 60 Extra Packer —
- Final Flow 60 Extra Recorder —
- Final Shut-In 90 Day Standby —
- Accessibility —

T-On Location 15:00
 T-Started 15:12
 T-Open 17:51
 T-Pulled 21:51
 T-Out 00:07

Comments —
 Ruined Shale Packer —
 Ruined Packer —
 Extra Copies —
 Sub Total 0
 Total 1776.50
 MP/DST Disc't —

Sub Total 1776.50
 Our Representative [Signature]

Approved By —
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58259**

Well Name & No. Jean # 3-8 Test No. 3 Date 6/18/14
 Company Murfin Drilling Co. Elevation 3283 KB 3273 GL
 Address 250 N. Water STE 300 Wichita KS 67206
 Co. Rep / Geo. Clayton Erickson Rig Murfin # 14
 Location: Sec. 8 Twp. 15 Rge. 37W Co. Cheyenne State KS

Interval Tested 4614 - 4662 Zone Tested Pawnee
 Anchor Length 48' Drill Pipe Run 4062' Mud Wt. 9.2
 Top Packer Depth 4609 Drill Collars Run 556' Vis 78
 Bottom Packer Depth 4614 Wt. Pipe Run 0' WL 5.6
 Total Depth 4662 Chlorides 1000 ppm System LCM 10
 Blow Description IF - 1/4" blow built to 5 1/2"
ISI - No return
FF - Surface blow started @ 16 mins built to 4"
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>24</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
<u>186</u>	<u>MCW</u>		<u>60</u>	<u>40</u>	
<u>370</u>	<u>MCW</u>		<u>80</u>	<u>20</u>	
<u>0'</u>	<u>free oil in tool</u>				

Rec Total 580 BHT — Gravity + API RW 318 @ 57° F Chlorides 26000 ppm

(A) Initial Hydrostatic <u>2433</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>19:30</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>20:03</u>
(C) First Final Flow <u>134</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>22:22</u>
(D) Initial Shut-In <u>1154</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>03:22</u>
(E) Second Initial Flow <u>139</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>05:11</u>
(F) Second Final Flow <u>272</u>	<input checked="" type="checkbox"/> Mileage <u>130 RT</u> 201.50	Comments
(G) Final Shut-In <u>1097</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2257</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1776.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1776.50</u>	

Approved By _____

Our Representative [Signature]

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SECTIONS WELLBITS GEOLOGY



Scale 1:248 (5"=100') Imperial Measured Depth Log

Well Name: Jans 83-0 License Number: NE 05 Sec: 8 T15 R37W Region: Clay County, KS Spud Date: 6/11/2014 Surface Coordinates: 1987 F&L & 667 F&L Drilling Completed: 6/20/2014

Bottom Hole Ground Elevation (ft): 3273 Logged Interval (ft): 3593 Formation: To: TD K.B. Elevation (ft): 3283 Total Depth (ft): 5320 Type of Drilling Fluid: Chemical Mud

OPERATOR

Company: Marlin Drilling Co., Inc. Address: 236 N. 16th St., Suite 300, Wichita, KS 67202

GEOLOGIST

Name: Clayton Erickson Company: Erickson Wellbore Geology Address: 437 Palmer Street, P.O. Box 234, Lewis, NE 68658

DSTs

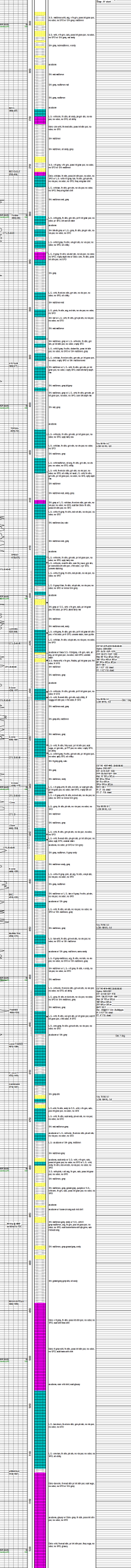
DST #1 4175-4319: 38-80-60-98; Hydro: 2204-2954 IFF: 24-78 ISF: 1275 FFP: 96-173 FSP: 1243; Rec: 98' 5/16" 40%w 55%w 180' 18%w 48%w 50%w 68' 20%w 40%w 48%w; BHT: 138 F; IP: 1 10" ISG: 154 dead FF: 1 10" F&L dead
DST #2 4307-4405: 30-68-68-90; Hydro: 2165-3077 IFF: 22-79 ISF: 1330 FFP: 85-154 FSP: 1291; Rec: 18' 50%w 97' 38%w 70%w 87' 5%w 85%w 23%w 31%w 40%w; BHT: 136 F; IP: 3" ISG: 154 dead FF: 2" F&L dead
DST #3 4814-4862: 38-80-60-98; Hydro: 2433-2257 IFF: 22-136 ISF: 1154 FFP: 138-272 FSP: 1097; Rec: 28' 70%w 39%w 180' 68%w 40%w 300' 80%w 28%w; BHT: 151 F; Rec: 318BHT P Ch: 26, 808gpm; IP: 5 1/2" ISG: 154 dead FF: 4" F&L dead

COMMENTS

Table with 2 columns: Log Tops (e.g., Ankyrite 3236(+45), Base Anky 3208(+17)) and Sample tops (e.g., 3243(+40), 3289(+14)).

Legend for Rock Types: Anky, Dent, Brecc, Chert, Carb. shale, Arkose, Dol, Igne, Limest, Meta, Salt, Shale, Shaly, Silts, TB.

Legend for Other Symbols: Spotted, Dead, Interval, etc.



Log scale and depth markers from 0 to 5320 feet.



Prod-MG

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 143797

Invoice Date: Jun 12, 2014

Voice: (817) 546-7282

Page: 1

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	64028	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jun 12, 2014	7/12/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Jean #3-8		
220.00	CEMENT MATERIALS	Class A Common	17.90	3,938.00
620.00	CEMENT MATERIALS	Chloride	1.10	682.00
231.00	CEMENT SERVICE	Cubic Feet Charge	2.48	572.88
958.45	CEMENT SERVICE	Ton Mileage Charge	2.75	2,635.74
1.00	CEMENT SERVICE	Surface	1,512.75	1,512.75
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		

Subtotal	10,705.37
Sales Tax	376.53
Total Invoice Amount	11,081.90
Payment/Credit Applied	
TOTAL	11,081.90

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

\$ 3,746.88

ONLY IF PAID ON OR BEFORE

Jul 12, 2014

ALLIED OIL & GAS SERVICES, LLC 064028

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley, KS

DATE <u>6-12-14</u>	SEC. <u>8</u>	TWP. <u>1</u>	RANGE <u>37</u>	CALLED OUT	ON LOCATION <u>10:00 AM</u>	JOB START <u>2:30 pm</u>	JOB FINISH <u>3:00 pm</u>
LEASE <u>Tean</u>	WELL # <u>3-8</u>	LOCATION <u>Brad City, N to 7th, E to 3rd, 1/2 mi S of</u>			COUNTY <u>Cherokee</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Murfin OWNER Same

TYPE OF JOB <u>Surface</u>	CEMENT
HOLE SIZE <u>12 1/4</u> T.D. <u>226'</u>	AMOUNT ORDERED <u>220 SF con 39 CC</u>
CASING SIZE <u>8 7/8</u> DEPTH <u>226.34'</u>	
TUBING SIZE DEPTH	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	
MEAS. LINE SHOE JOINT	
CEMENT LEFT IN CSG. <u>15'</u>	COMMON <u>220 SF @ 17.90 3938.00</u>
PERFS.	POZMIX @
DISPLACEMENT <u>1353 bbl</u>	GEL @
	CHLORIDE <u>6.20 # @ 1.10 6.82.00</u>
	ASC @

EQUIPMENT

PUMP TRUCK # <u>422</u>	CEMENTER <u>Lakone E. Smith</u>
BULK TRUCK # <u>373/308</u>	HELPER <u>Wayne McHugh</u>
BULK TRUCK #	DRIVER <u>Ramiro Zedala (TWS)</u>
BULK TRUCK #	DRIVER

Material <u>220 SF</u>	@	<u>4100.00</u>
<u>(1,617.00 / 35%)</u>	@	
	@	
	@	
	@	
HANDLING <u>231 FF</u>	@ <u>2.48</u>	<u>572.98</u>
MILEAGE <u>96.5 mi x 90 x 2.75</u>		<u>2633.75</u>
TOTAL		<u>6,055.38</u>

REMARKS:
Mix 220 SF cement
Displace with water
cement did circulate
20 SF to pit.

SERVICE

DEPTH OF JOB <u>226.34'</u>	
PUMP TRUCK CHARGE	<u>1512.95</u>
EXTRA FOOTAGE @	
MILEAGE <u>MFLW 90 @ 7.70</u>	<u>693.00</u>
MANIFOLD <u>Salage MFLW 90 @ 4.40</u>	<u>396.00</u>
TOTAL	

CHARGE TO: Murfin

STREET _____

CITY _____ STATE _____ ZIP _____

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

PRINTED NAME Cory Hank

SIGNATURE [Signature]

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
TOTAL		_____

SALES TAX (If Any) _____

TOTAL CHARGES 10,705.38

DISCOUNT 3,746.88 / 35% IF PAID IN 30 DAYS

6,958.49 Net



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # 269021

Invoice Date: 06/25/2014 Terms: 10/10/30,n/30

Page 1

MURFIN DRILLING
P.O. BOX 288
RUSSELL KS 67665
() -

JEAN 3 #8
46995
8-1-31
06-20-2014
KS

USED FOR 10-103
APPROVED ST RK R

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	250.00	23.7000	5925.00
1110A	KOL SEAL (50# BAG)	1250.00	.5600	700.00
1104D	CLASS "A" CEMENT CMD	350.00	27.9200	9772.00
1142A	KCL SUB MB6875 CC3107 (1	2.00	41.1000	82.20
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4130	CENTRALIZER 5 1/2"	15.00	61.0000	915.00
4104	CEMENT BASKET 5 1/2"	3.00	290.0000	870.00
4315	ROTATING SCRATCHERS	20.00	94.5000	1890.00
4454	5 1/2" LATCH DOWN PLUG	1.00	567.0000	567.00
4310	ROTATING HEAD	1.00	150.0000	150.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-2180.50
9995-130	CEMENT EQUIPMENT DISCOUNT	-760.77

Description	Hours	Unit Price	Total
399 SINGLE PUMP	1.00	3175.00	3175.00
399 EQUIPMENT MILEAGE (ONE WAY)	85.00	5.25	446.25
529 TON MILEAGE DELIVERY	1.00	1993.25	1993.25
566 TON MILEAGE DELIVERY	1.00	1993.25	1993.25

Amount Due 31189.82 if paid after 07/25/2014

Parts:	21804.95	Freight:	.00	Tax:	1599.41	AR	28070.84
Labor:	.00	Misc:	.00	Total:	28070.84		
Sublt:	-2941.27	Supplies:	.00	Change:	.00		

Signed _____

Date _____

BARTLESVILLE, OK
918/338-0808

EL DORADO, KS
316/322-7022

EUREKA, KS
620/583-7664

PONCA CITY, OK
580/762-2303

OAKLEY, KS
785/672-8822

OTTAWA, KS
785/242-4044

THAYER, KS
620/839-5269

GILLETTE, WY
307/686-4914

CUSHING, OK
918/225-2650



CONSOLIDATED
Oil Well Services, LLC

269021

TICKET NUMBER 46995

LOCATION Ozley, KS

FOREMAN Dane Retzlaff

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-20-14	5406	Jean 3 # 8	8	1	37	Cherokee
CUSTOMER			Bridgcity North to State line East to Y South.			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			539	Mike		
STATE			566	Jake		
ZIP CODE			529	Steve		

JOB TYPE Production HOLE SIZE 7 7/8 HOLE DEPTH 5320 CASING SIZE & WEIGHT 5 1/2 15.5
 CASING DEPTH 5318 DRILL PIPE 4.5 TUBING DA OTHER _____
 SLURRY WEIGHT 14.5/1100 SLURRY VOL 1.56/3.00 WATER gal/sk 697/21.00 CEMENT LEFT in CASING 20.96
 DISPLACEMENT 126.06/149.8 DISPLACEMENT PSI 200 psi MIX PSI 300 psi RATE mix at 500's displace at 6
 REMARKS: Safety meeting, Rig up, Run float equipment. Cents on 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 35, 55. Basket 16, 36, 56. Circulate 20 minutes Halfway. Finish running casing. Circulate on bottom for 1 hr. Pump ahead mix mudflush pump 5 behind. Mix 320 sks cmc (117.5 slurry BB15) mix 250 sks OWC (69.45 slurry BB15) wash pump + lines. Release plug. Displace 125.5 bbls of water. Final lift 2500 psi. Plug landed at 2300 psi. Float held. 20 BB15 of cement to pit. Plug down at 0630.
350 sks CMO
450 sks OWC 5# KOI Seal

Thanks Dane + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3175.00	3175.00
5406	85	MILEAGE	5.25	446.25
5407A	26.8	Ton Mileage Delivery	1.75	3986.50
1126	250 sks	OWC Cement	23.70	5925.00
1100A	1250	KOI Seal	.56	700.00
1104D	350 sks	CMO Cement	27.92	9772.00
1142A	2 gal	KCL	41.10	82.20
1144g	500 gal	Mudflush	1.00	500.00
4159	1	5/8 AFU Float shoe	433.75	433.75
4130	15	5 1/2 Centralizers	61.00	915.00
4104	3	5 1/2 Baskets	290.00	870.00
4315	20	5 1/2 scratchers	94.80	1890.00
4454	1	5 1/2 Hatchdown Plug Assembly	567.00	567.00
4310	1	Rotating Head	150.00	150.00
			546	2941.20
			10%	2941.27
			Total	26478.47

Completed

Revin 3737

AUTHORIZATION Bu S TITLE _____ DATE _____
 SALES TAX ESTIMATED TOTAL 1599.41
28070.84

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Jean #3-8
Daily Drilling Report
Page Two

- 6/18/14 Depth 4520'. Cut 110'. DT: None. CT: 17¼ hrs. Dev.: None. **LKC G:** Ls wht, fn xln, fnly suc, pr int xln por, scat vugs, w/ grn stn, pr pp por, no odor, v spty SFO, sli chlky, LS wht-lt grey, fn xln, grn-wk stn, pr int gran por, no odor, spty SFO, sli chlky. **LKC H:** Ls v lt grey-wht, fn xln, md stn, w/ scat grn stn, pr int gran por, no odor, rare SFO, v spty blk oil stain. **LKC J:** Ls wht, fn-med xln, pk-grn stn, pr int xln por, no odor, spty SFO, uneven stain. **DST #2 4307-4465 (LKC G-J):** 30-60-60-90. IF: 1/4" blw built to 3". FF: Surf blw started @ 20 mins built to 2". Rec.: 10'OCM (50%O, 50%M), 90'OCM (30%O, 70%M), 90'OCM (5%O, 95%M), 90' OWCM (20%O 35%W 45%M. HP: 2192-1977. FP: 22/79, 85/154. SIP: 1330-1291. BHT: 136°.
- 6/19/14 Depth 4662'. Cut 142'. DT: None. CT: 15½ hrs. Dev.: None. **Pawnee:** Ls wht, fn xln, ool grn stn, pr int gran por, scat fr int gran por, v fnt odor, fr SFO. **DST #3 4614-4662 (Pawnee):** 30-60-60-90. IF: blw built to 5½". FF: blw built to 4". Rec.: 580'TF, 24'MW (70%W, 30%M), 186'MW (60%W, 40%M), 370'MW (80%W, 20%M). HP: 2433-2257. FP: 22/134, 139/272. SIP: 1154-1097. BHT: 149°. RW: .318 @ 57° F CHL 26000PPM.
- 6/20/14 RTD: 5320'. Cut 658'. DT: None. CT: 18½ hrs. Dev.: None. TD @ 5:15AM 6/20. After recovering water on our Pawnee DST we decided our best option was to drill this well on down to the granite & complete it as a salt water disposal well. Will run 5 ½" prod csg.
- 6/21/14 RTD: 5320'. CT: 24hrs. Dev.: ½° @ 5320'. Pioneer logged 9:30AM – 4:00PM 6/20. LTD: 5318'. Ran 127jts of 15.5# 5½" prod csg, set @ 5318'. C.O.W.S. cmt w/300sxs CMD, 250sxs OWC. PD @ 6:30AM 6/21. 30sxs RH, 20sxs MH.
- 6/22/14 RTD: 5320'. CT: 3 1/2 Circ cmt. RR @ 10:30AM 6/21/14. FINAL REPORT

MDCI Jean #3-8 1980' FSL 660' FEL Sec. 8-T1S-R37W 3283' 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	3242	+41	-10	3238	+45	-6	3168	+51
B/Anhydrite	3269	+14	-4	3266	+17	-1	3201	+18
Neva	3690	-407	-2	3687	-404	+1	3624	-405
Red Eagle	3760	-477	-10	3750	-467	Flat	3686	-467
Foraker	3803	-526	-12	3799	-516	-2	3733	-514
Topeka	4026	-743	-5	4022	-739	-1	3957	-738
Oread	4159	-876	-2	4153	-870	+4	4093	-874
Lansing	4237	-954	-1	4233	-950	+3	4172	-953
Stark	4458	-1175	-2	4454	-1171	+2	4392	-1173
BKC	4518	-1235	-5	4510	-1227	+3	4449	-1230
Pawnee	4636	-1353	-2	4631	-1348	+3	4570	-1351
Cherokee	4724	-1441	-3	4717	-1434	+4	4657	-1438
Mississippi	4942	-1659	----	4936	-1653	----		
Arbuckle				5118	-1835	----		
Reagan				5231	-1948	----		
Granite	5304	-2021						
RTD	5320						4770	
LTD				5318	-2035		4767	-1548