



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1172695
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: _____



1172695

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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MDCI
Berry #1-3
760' FSL 1750' FWL
Sec. 3-T1S-R36W
3126' KB

Berexco
Moser #3-9
1910' FNL 550' FWL
Sec. 9-T1S-R36W
3098' KB

Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3071	+55	-25	3069	+57	-23	3018	+80
B/Anhydrite	3102	+24	-24	3112	+14	-34	3050	+48
Neva	3542	-416	-26	3547	-421	-31	3488	-390
Red Eagle	3609	-483	-26	3613	-487	-30	3555	-457
Foraker	3654	-528	-25	3660	-534	-31	3601	-503
Topeka	3883	-757	-36	3875	-749	-28	3819	-721
Oread	3993	-867	-38	3990	-864	-35	3927	-829
Lansing	4089	-963	-36	4091	-965	-38	4025	-927
Stark	4310	-1184	-42	4305	-1179	-37	4240	-1142
BKC	4363	-1237	-43	4357	-1231	-37	4292	-1194
Pawnee	4475	-1349	-41	4479	-1353	-45	4406	-1308
Cherokee	4560	-1434	-38	4559	-1453	-37	4494	-1396
Mississippi	NR			NR			4704	-1606
RTD	4650	-1524					4750	
LTD				4648	-1522			

GEOLOGISTS' REPORT

OPERATOR **MURFIN DRILLING COMP. INC.**
 LEASE **BERRY #1-3**

ELEVATIONS
 KIB **3125**

LOCATION **760' FSL 1750' FWL**
 SEC. **3** TWPSP **1S** RGE **36W**

COUNTY **RAWLINS** STATE **KANSAS**
 FIELD **WILDCAT**

CONTRACTOR **MURFIN DRILLING CO. INC.** REG. NO. #14
 COMMENCED **SEPT 17 2013** COMPLETED **SEPT 26 2013**

MUD DISPLACED **3240** MUD TYPE **CHEMICAL**
 DRILLING TIME KEPT FROM **3400** TO **4650**
 SAMPLES SAVED FROM **3400** TO **4650**

SAMPLES EXAMINED FROM **3400** TO **4650**
 GEOLOGICAL SUPERVISION FROM **3430** TO **4650**
 GEOLOGIST ON WELL **STEPHEN MILLER**

LOG-TECH INC.
 LOG-TECH INC.
 LOG-TECH INC.

ELECTRICAL SURVEYS:
 ELECTRICAL SURVEYS:
 ELECTRICAL SURVEYS:

LOG-TECH INC.
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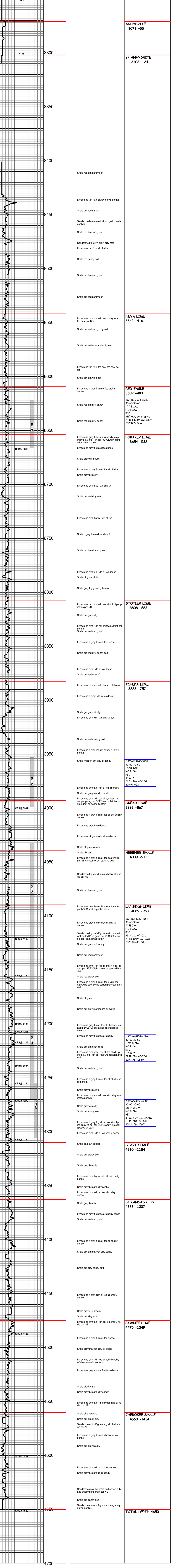
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DRILL TIME (MIN/FT)	DEPTH	SAMPLE DESCRIPTIONS	REMARKS
			REMARKS API 15-153-20932 Drilling Fluids: MORGAN MUD Drill Stem Testing: TRILOBITE TESTERS Gas Trailer: NONE Reserve Pit Chlorides: 1900 PPM



Operator: **MURFIN DRILLING COMP. INC.**
 Lease: **BERRY #1-3**
 Location: **760' FSL 1750' FWL** SEC. **3** TWPSP **1S** RGE **36W**
 County: **RAWLINS** State: **KANSAS**



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N. Water Ste 300
Wichita KS. 67202

ATTN: Steve Miller

Berry #1-3

3-1s-36w Rawlins,KS

Start Date: 2013.09.20 @ 15:45:00

End Date: 2013.09.20 @ 22:36:09

Job Ticket #: 54852 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.26 @ 09:23:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co
 250 N. Water Ste 300
 Wichita KS. 67202
 ATTN: Steve Miller

3-1s-36w Rawlins,KS
Berry #1-3
 Job Ticket: 54852 **DST#: 1**
 Test Start: 2013.09.20 @ 15:45:00

GENERAL INFORMATION:

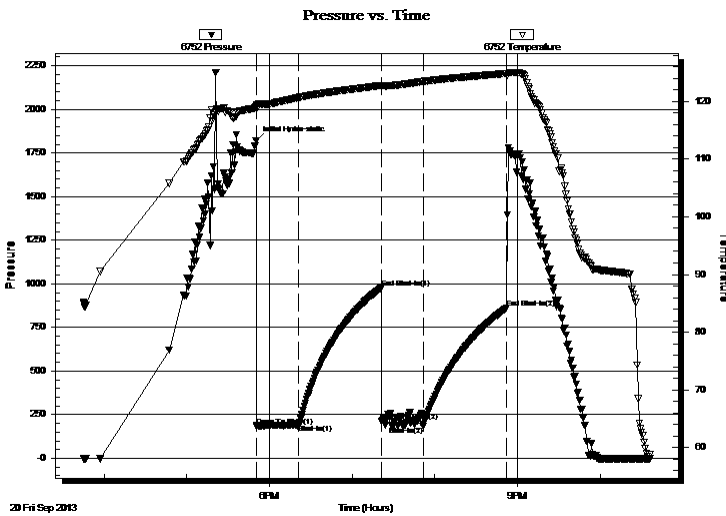
Formation: **Foraker**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 17:50:49
 Tester: Bob Hamel
 Time Test Ended: 22:36:09
 Unit No: 41
 Interval: **3116.00 ft (KB) To 3126.00 ft (KB) (TVD)**
 Reference Elevations: 3126.00 ft (KB)
 Total Depth: 3666.00 ft (KB) (TVD)
 3116.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 10.00 ft

Serial #: 6752 Inside
 Press @ Run Depth: 185.64 psig @ 3157.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.20 End Date: 2013.09.20 Last Calib.: 2013.09.20
 Start Time: 15:45:00 End Time: 22:36:09 Time On Btm: 2013.09.20 @ 17:50:39
 Time Off Btm:

TEST COMMENT: 30 - IF - W.S.B. Died in 18 min
 60 - ISI - No B.B.
 30 - FF - No blow
 60 - FSI - No B.B.

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1819.28	119.35	Initial Hydro-static
1	182.59	118.71	Open To Flow (1)
31	193.31	120.65	Shut-In(1)
91	977.31	122.74	End Shut-In(1)
91	211.55	122.58	Open To Flow (2)
121	185.64	123.43	Shut-In(2)
182	859.45	124.83	End Shut-In(2)



Recovery

Length (ft)	Description	Volume (bbl)
311.00	MUD 100% FEW OIL SPECS.	1.53

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

3-1s-36w Rawlins,KS

250 N. Water Ste 300
Wichita KS. 67202

Berry #1-3

Job Ticket: 54852

DST#: 1

ATTN: Steve Miller

Test Start: 2013.09.20 @ 15:45:00

Tool Information

Drill Pipe:	Length: 2576.00 ft	Diameter: 3.80 inches	Volume: 36.13 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 535.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose:	76000.00 lb
			<u>Total Volume: 38.76 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	3116.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	44.00 ft				
Tool Length:	71.00 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			3090.00	
Shut In Tool	5.00			3095.00	
Hydraulic tool	5.00			3100.00	
Jars	5.00			3105.00	
Safety Joint	2.00			3107.00	
Packer	5.00			3112.00	27.00 Bottom Of Top Packer
Packer	4.00			3116.00	
Stubb	1.00			3117.00	
Change Over Sub	1.00			3118.00	
Drill Pipe	31.00			3149.00	
Change Over Sub	1.00			3150.00	
Perforations	7.00			3157.00	
Recorder	0.00	6752	Inside	3157.00	
Recorder	0.00	8322	Outside	3157.00	
Bullnose	3.00			3160.00	44.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

3-1s-36w Rawlins,KS

250 N. Water Ste 300
Wichita KS. 67202

Berry #1-3

Job Ticket: 54852

DST#: 1

ATTN: Steve Miller

Test Start: 2013.09.20 @ 15:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 67.70 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 bbl
311.00	MUD 100% FEW OIL SPECS.	1.529

Total Length: 311.00 ft Total Volume: 1.529 bbl

Num Fluid Samples: 0

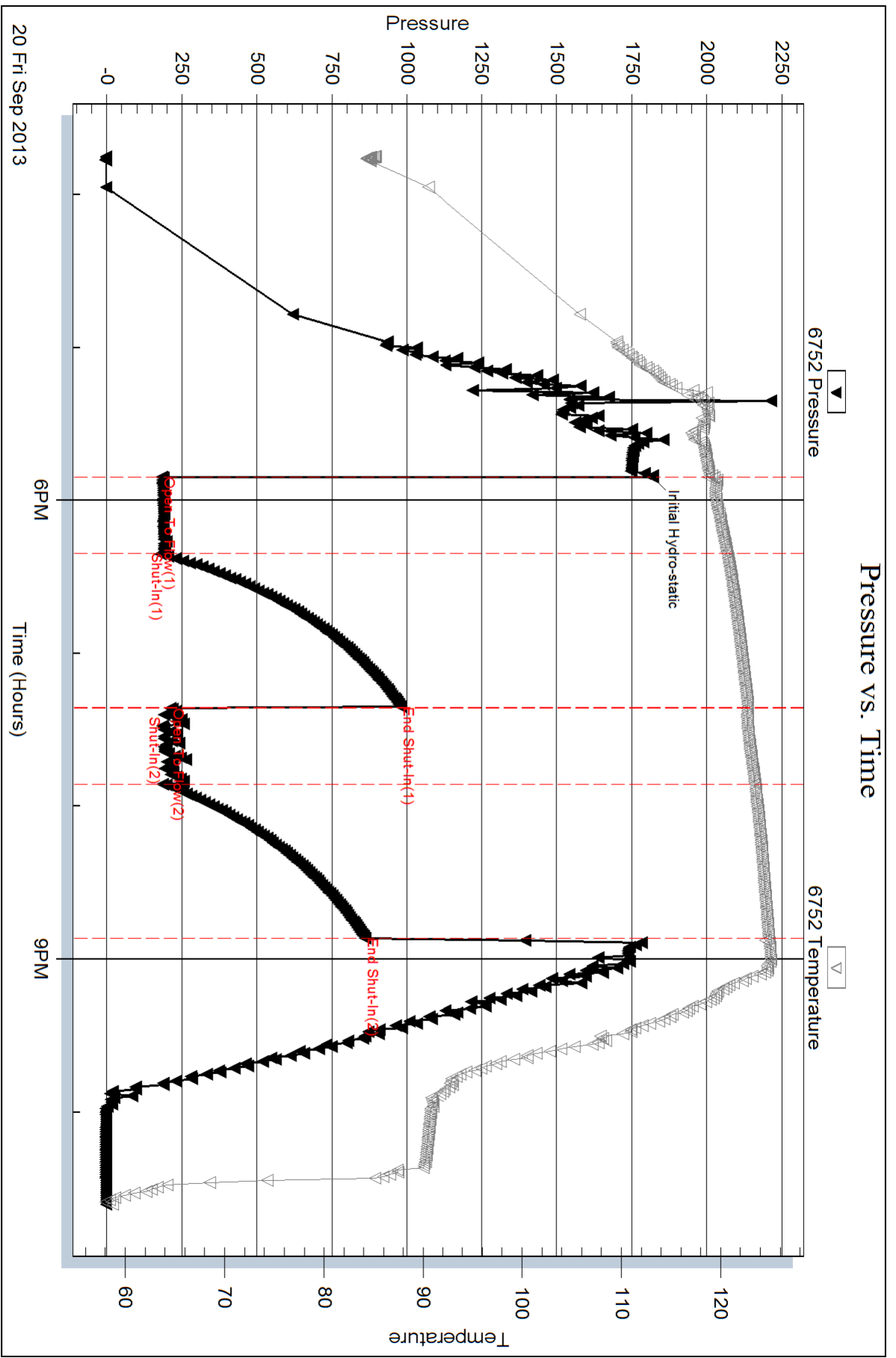
Num Gas Bombs: 0

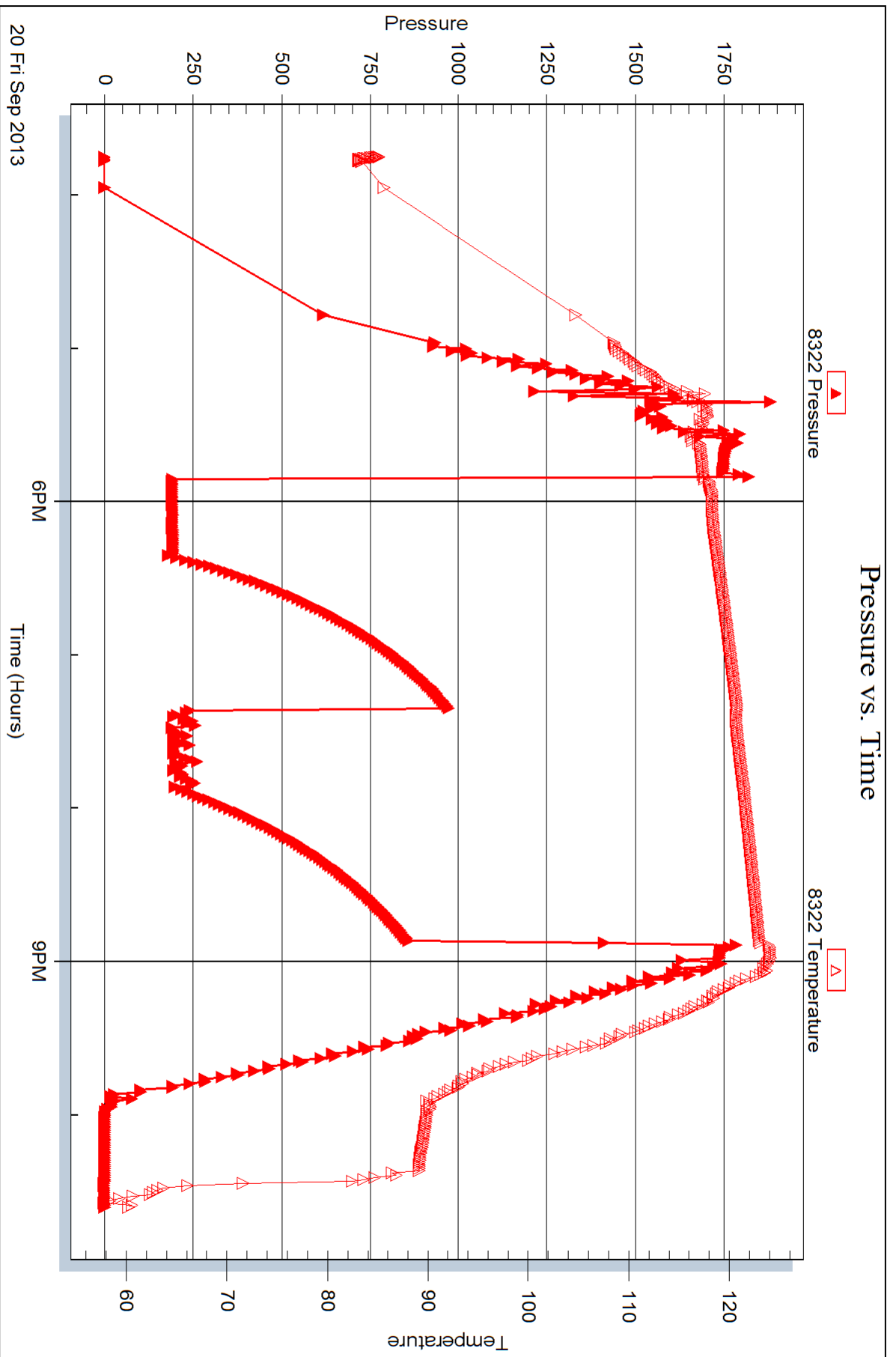
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N. Water Ste 300
Wichita KS. 67202

ATTN: Steve Miller

Berry #1-3

3-1s-36w Rawlins,KS

Start Date: 2013.09.21 @ 19:50:00

End Date: 2013.09.22 @ 02:34:50

Job Ticket #: 54853 DST #: 2

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

Printed: 2013.09.26 @ 09:24:03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co
 250 N. Water Ste 300
 Wichita KS. 67202
 ATTN: Steve Miller

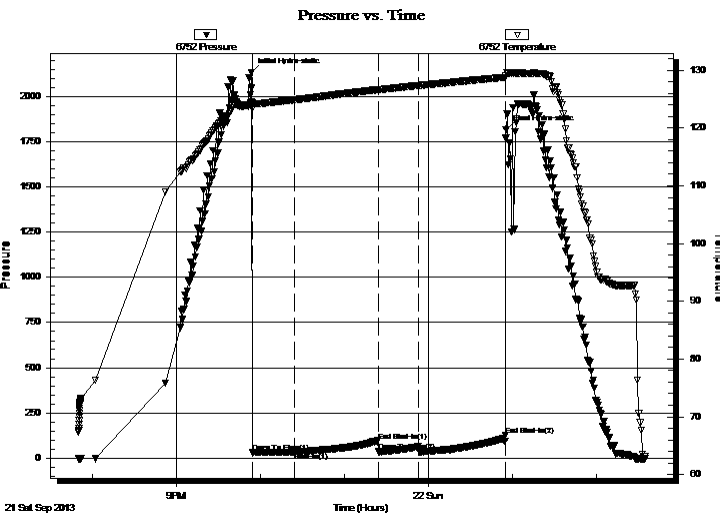
3-1s-36w Rawlins,KS
Berry #1-3
 Job Ticket: 54853 **DST#: 2**
 Test Start: 2013.09.21 @ 19:50:00

GENERAL INFORMATION:

Formation: **Oread**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:54:00
 Time Test Ended: 02:34:50
 Interval: **3953.00 ft (KB) To 3999.00 ft (KB) (TVD)**
 Total Depth: 3999.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bob Hamel
 Unit No: 41
 Reference Elevations: 3126.00 ft (KB)
 3116.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6752 Inside
 Press @ Run Depth: 64.66 psig @ 3996.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.21 End Date: 2013.09.22 Last Calib.: 2013.09.22
 Start Time: 19:50:01 End Time: 02:34:50 Time On Btm: 2013.09.21 @ 21:53:20
 Time Off Btm: 2013.09.22 @ 00:55:20

TEST COMMENT: 30 - IFI - W.S.B. Died in 10 min
 60 - ISI - NO B.B.
 30 - FF - No blow
 60 - FSI - NO B.B.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2131.78	124.37	Initial Hydro-static
1	31.32	123.36	Open To Flow (1)
31	33.96	124.89	Shut-In(1)
91	96.64	126.64	End Shut-In(1)
91	39.51	126.64	Open To Flow (2)
120	64.66	127.37	Shut-In(2)
182	128.42	128.81	End Shut-In(2)
182	1816.22	129.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	MUD 100%	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

3-1s-36w Rawlins,KS

250 N. Water Ste 300
Wichita KS. 67202

Berry #1-3

Job Ticket: 54853

DST#: 2

ATTN: Steve Miller

Test Start: 2013.09.21 @ 19:50:00

Tool Information

Drill Pipe:	Length: 3400.00 ft	Diameter: 3.80 inches	Volume: 47.69 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 535.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 50.32 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3953.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	73.00 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			3927.00	
Shut In Tool	5.00			3932.00	
Hydraulic tool	5.00			3937.00	
Jars	5.00			3942.00	
Safety Joint	2.00			3944.00	
Packer	5.00			3949.00	27.00 Bottom Of Top Packer
Packer	4.00			3953.00	
Stubb	1.00			3954.00	
Perforations	1.00			3955.00	
Change Over Sub	1.00			3956.00	
Drill Pipe	31.00			3987.00	
Change Over Sub	1.00			3988.00	
Perforations	8.00			3996.00	
Recorder	0.00	6752	Inside	3996.00	
Recorder	0.00	8322	Outside	3996.00	
Bullnose	3.00			3999.00	46.00 Bottom Packers & Anchor
Total Tool Length:	73.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

3-1s-36w Rawlins,KS

250 N. Water Ste 300
Wichita KS. 67202

Berry #1-3

Job Ticket: 54853

DST#: 2

ATTN: Steve Miller

Test Start: 2013.09.21 @ 19:50:00

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:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	MUD 100%	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

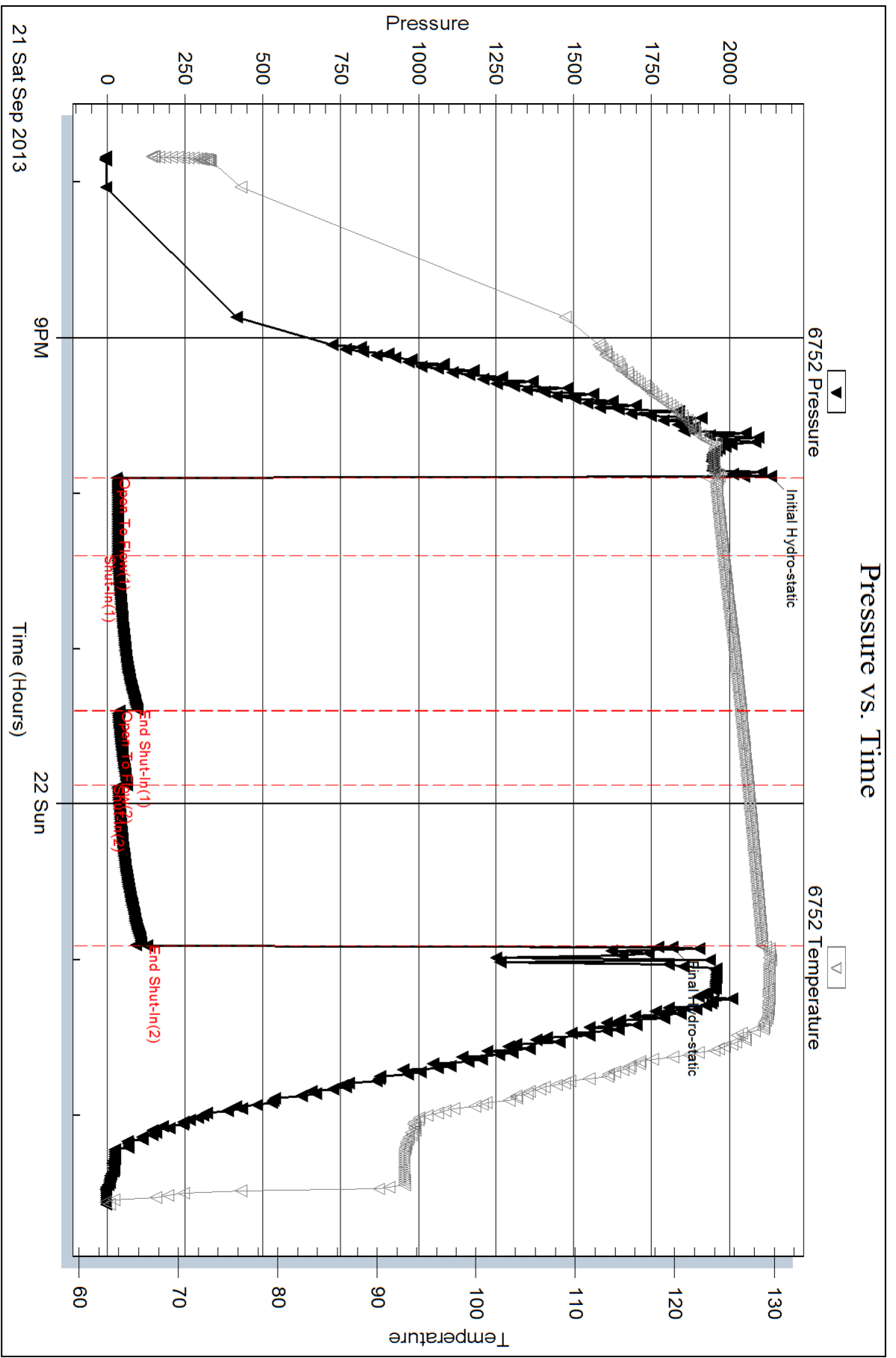
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

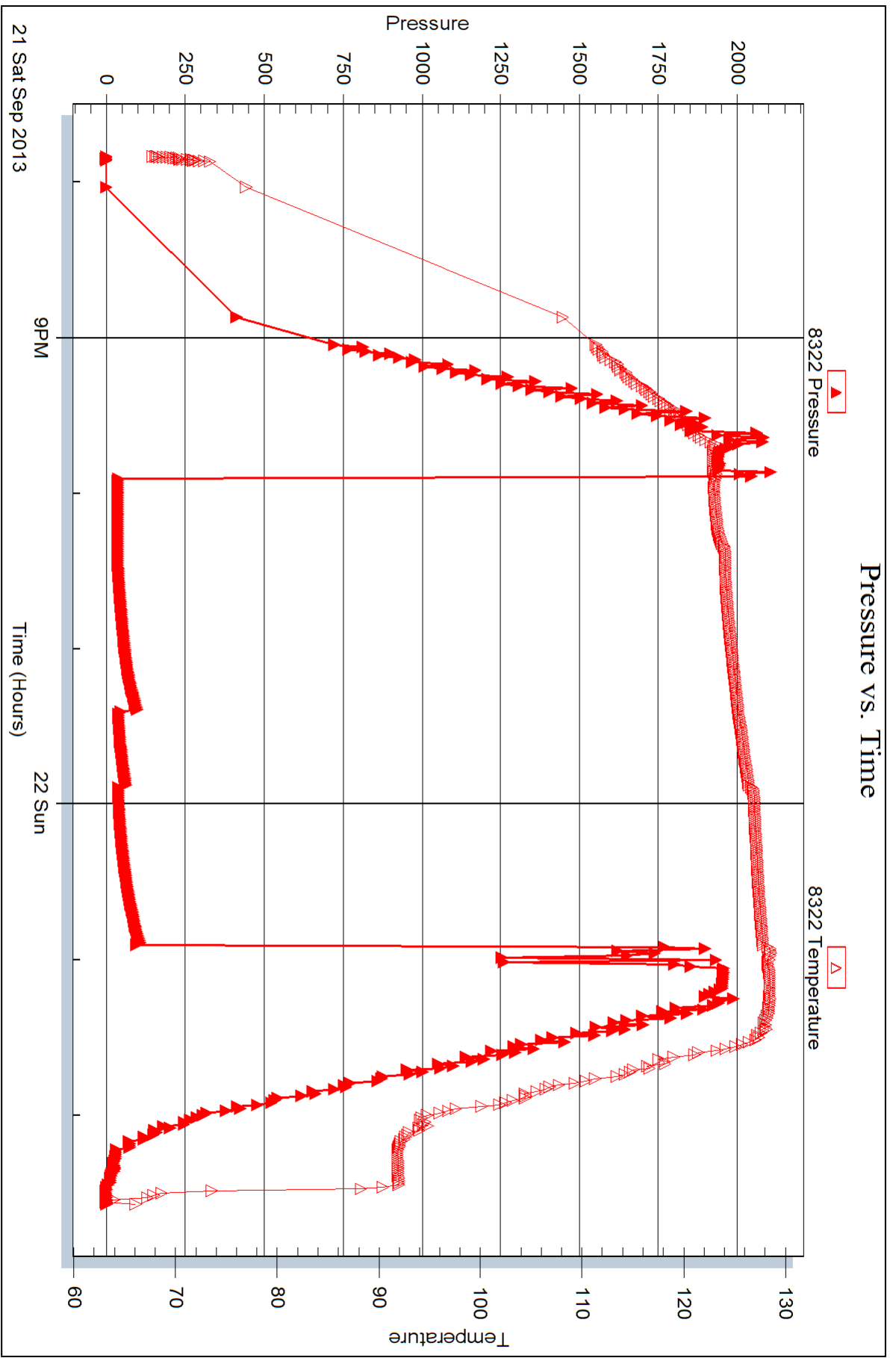


Serial #: 8322

Outside Murfin Drilling Co

Berry #1-3

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N. Water Ste 300
Wichita KS. 67202

ATTN: Steve Miller

Berry #1-3

3-1s-36w Rawlins,KS

Start Date: 2013.09.22 @ 18:10:00

End Date: 2013.09.23 @ 00:38:30

Job Ticket #: 54854 DST #: 3

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

Printed: 2013.09.26 @ 09:20:00

Murfin Drilling Co
3-1s-36w Rawlins,KS
Berry #1-3
DST # 3
LKC "A - D"
2013.09.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

3-1s-36w Rawlins,KS

250 N. Water Ste 300
Wichita KS. 67202

Berry #1-3

Job Ticket: 54854

DST#: 3

ATTN: Steve Miller

Test Start: 2013.09.22 @ 18:10:00

Tool Information

Drill Pipe:	Length: 3490.00 ft	Diameter: 3.80 inches	Volume: 48.96 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 535.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 51.59 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4032.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	122.00 ft				
Tool Length:	149.00 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			4016.00	
Jars	5.00			4021.00	
Safety Joint	2.00			4023.00	
Packer	5.00			4028.00	27.00 Bottom Of Top Packer
Packer	4.00			4032.00	
Stubb	1.00			4033.00	
Perforations	3.00			4036.00	
Change Over Sub	1.00			4037.00	
Drill Pipe	95.00			4132.00	
Change Over Sub	1.00			4133.00	
Recorder	0.00	6752	Inside	4133.00	
Recorder	0.00	8322	Outside	4133.00	
Perforations	18.00			4151.00	
Bullnose	3.00			4154.00	122.00 Bottom Packers & Anchor
Total Tool Length:	149.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

3-1s-36w Rawlins,KS

250 N. Water Ste 300
Wichita KS. 67202

Berry #1-3

Job Ticket: 54854

DST#: 3

ATTN: Steve Miller

Test Start: 2013.09.22 @ 18:10:00

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: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 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 bbl
93.00	OCM 10% OIL 90% MUD	0.457

Total Length: 93.00 ft Total Volume: 0.457 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

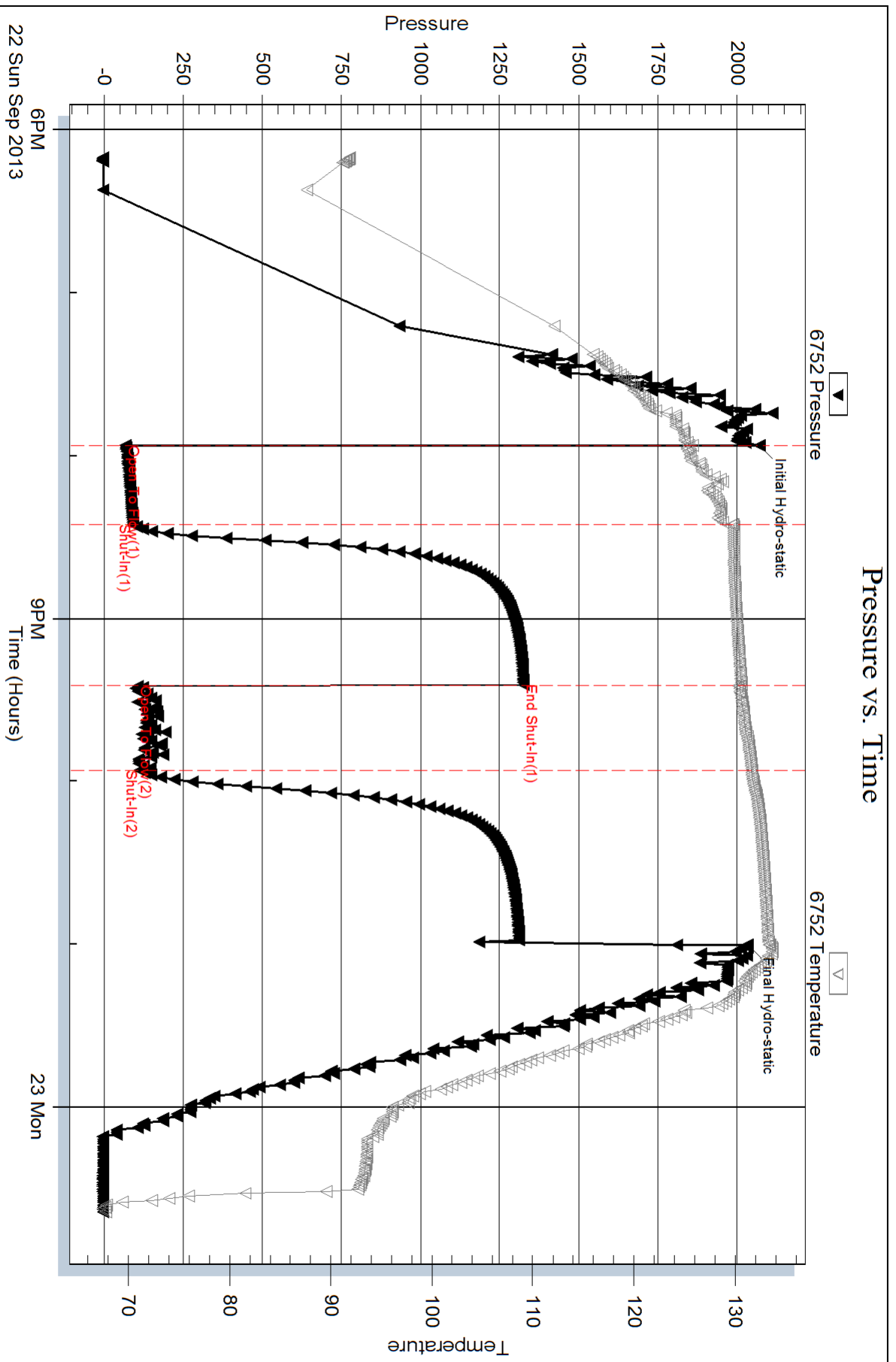
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N. Water Ste 300
Wichita KS. 67202

ATTN: Steve Miller

Berry #1-3

3-1s-36w Rawlins,KS

Start Date: 2013.09.24 @ 12:36:00

End Date: 2013.09.24 @ 18:50:09

Job Ticket #: 53524 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.26 @ 09:18:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co
 250 N. Water Ste 300
 Wichita KS. 67202
 ATTN: Steve Miller

3-1s-36w Rawlins,KS
Berry #1-3
 Job Ticket: 53524 **DST#: 5**
 Test Start: 2013.09.24 @ 12:36:00

GENERAL INFORMATION:

Formation: **LKC " J - K "**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 14:15:50
 Tester: Ryan Nichols
 Time Test Ended: 18:50:09
 Unit No: 41
Interval: 4255.00 ft (KB) To 4306.00 ft (KB) (TVD)
 Reference Elevations: 3126.00 ft (KB)
 Total Depth: 4306.00 ft (KB) (TVD) 3116.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

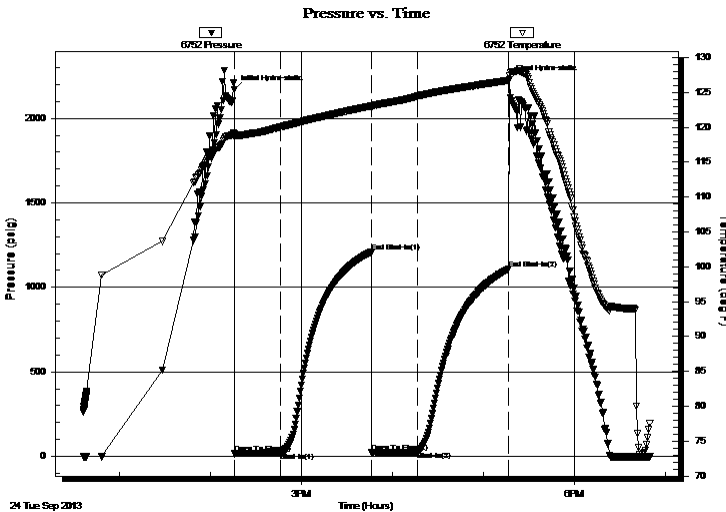
Serial #: 6752

Inside

Press @ Run Depth: 27.82 psig @ 4256.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.24 End Date: 2013.09.24 Last Calib.: 2013.09.24
 Start Time: 12:36:01 End Time: 18:50:10 Time On Btm: 2013.09.24 @ 14:15:40
 Time Off Btm: 2013.09.24 @ 17:17:00

TEST COMMENT: 30 IF - Surface blow built to 1/4"
 60 ISI - No return
 30 FF - No blow
 60 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2172.98	119.02	Initial Hydro-static
1	15.67	118.71	Open To Flow (1)
31	20.80	120.04	Shut-In(1)
91	1208.83	123.05	End Shut-In(1)
91	23.08	122.84	Open To Flow (2)
121	27.82	124.46	Shut-In(2)
181	1108.58	126.73	End Shut-In(2)
182	2229.06	127.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w / oil spots 100%M	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

3-1s-36w Rawlins,KS

250 N. Water Ste 300
Wichita KS. 67202

Berry #1-3

Job Ticket: 53524

DST#: 5

ATTN: Steve Miller

Test Start: 2013.09.24 @ 12:36:00

Tool Information

Drill Pipe:	Length: 3714.00 ft	Diameter: 3.80 inches	Volume: 52.10 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 535.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 54.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4255.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	78.00 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			4229.00	
Shut In Tool	5.00			4234.00	
Hydraulic tool	5.00			4239.00	
Jars	5.00			4244.00	
Safety Joint	2.00			4246.00	
Packer	5.00			4251.00	27.00 Bottom Of Top Packer
Packer	4.00			4255.00	
Stubb	1.00			4256.00	
Recorder	0.00	6752	Inside	4256.00	
Recorder	0.00	8322	Outside	4256.00	
Perforations	14.00			4270.00	
Change Over Sub	1.00			4271.00	
Drill Pipe	31.00			4302.00	
Change Over Sub	1.00			4303.00	
Bullnose	3.00			4306.00	51.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

3-1s-36w Rawlins,KS

250 N. Water Ste 300
Wichita KS. 67202

Berry #1-3

Job Ticket: 53524

DST#: 5

ATTN: Steve Miller

Test Start: 2013.09.24 @ 12:36:00

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: 75.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w / oil spots 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

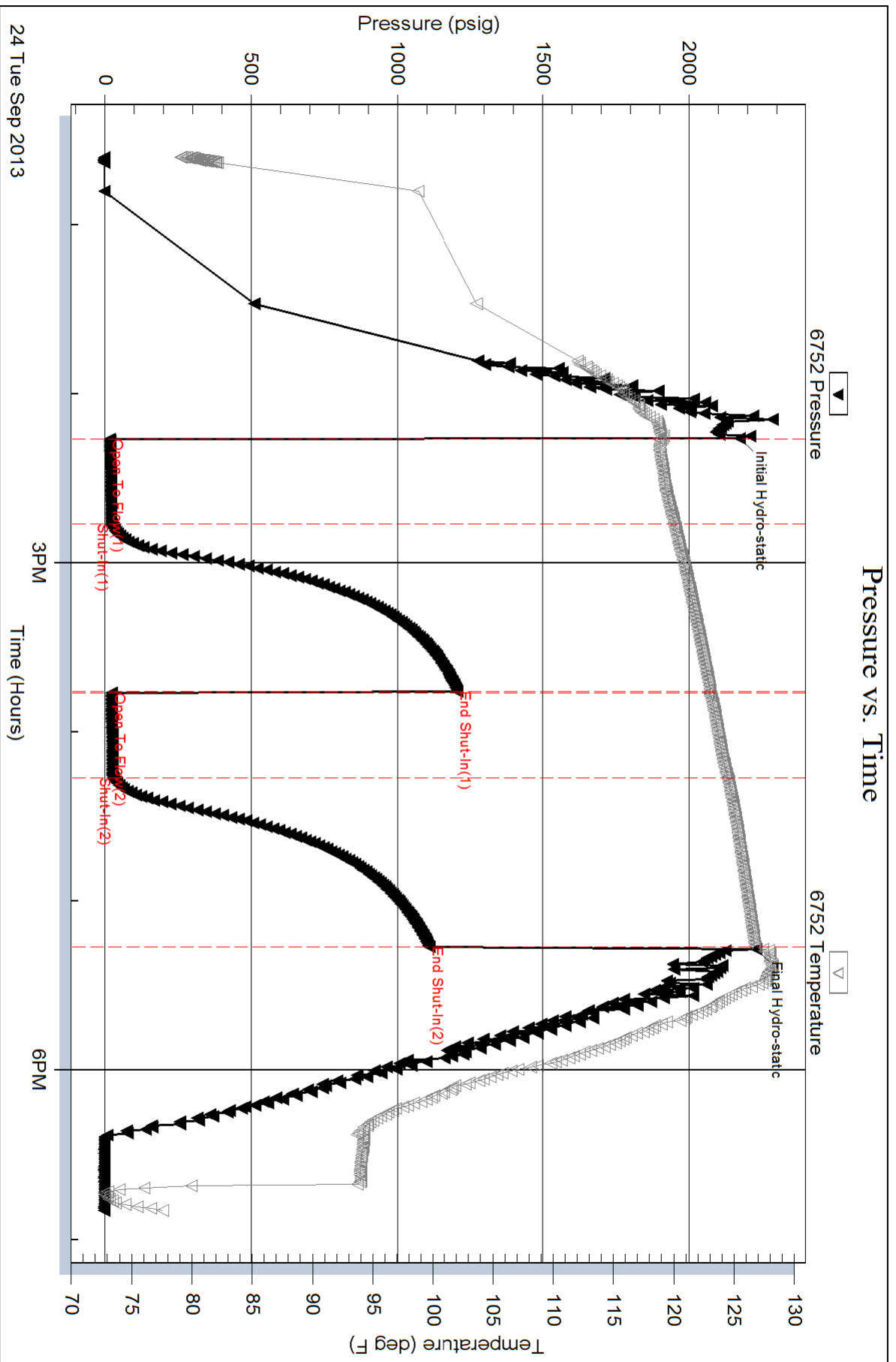
Serial #:

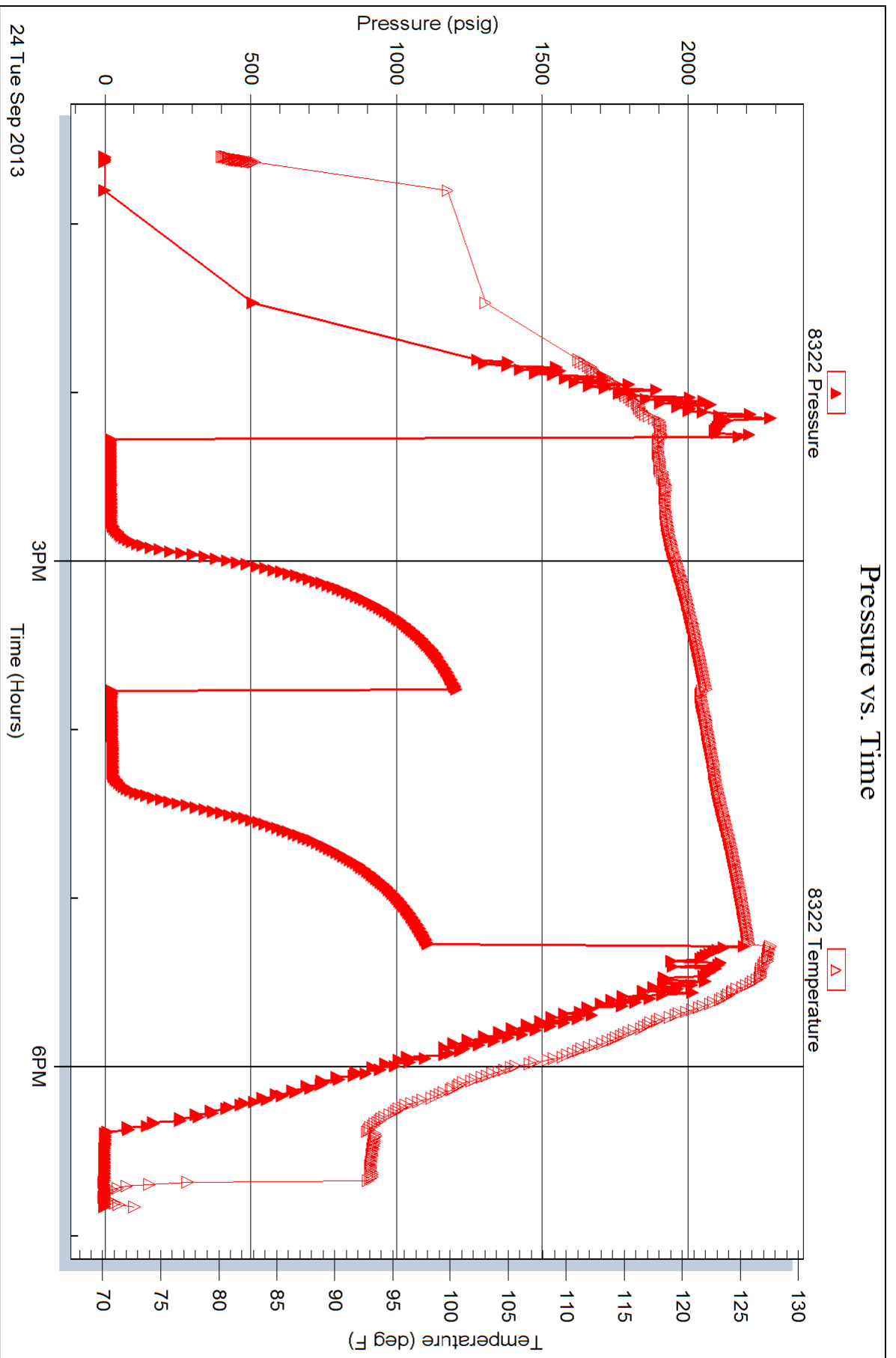
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54852

Well Name & No. Berry #1-3 Test No. 1 Date 9-20-13
 Company Muffin drilling company Elevation 3,126 KB 3,116 GL
 Address 250 N. Water Ste. 300
 Co. Rep / Geo. Steve Miller Rig Muffin Rig #14
 Location: Sec. 3 Twp. 1 Rge. 36 Co. Rawlins State KS

Interval Tested 3622- 3666 Zone Tested 4 acre
 Anchor Length 44' Drill Pipe Run 2576 Mud Wt. 8.8
 Top Packer Depth 3617 Drill Collars Run 535 Vis 58
 Bottom Packer Depth 3622 Wt. Pipe Run _____ WL 68
 Total Depth 3666 Chlorides 1,000 ppm System LCM 5.0

Blow Description 30-Initial Flow - w.s.B. Died in 18 min.
60-Initial Shut in - No B.B.
30-Final Flow - No Blow
60-Final Shut in - NO B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>311</u>	<u>Mud few oil specs</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 311 BHT 125 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1,819 Test 1150 T-On Location 14:52:00
 (B) First Initial Flow 183 Jars 250 T-Started 15:45:00
 (C) First Final Flow 193 Safety Joint 75 T-Open 16:50:00
 (D) Initial Shut-In 977 Circ Sub _____ T-Pulled 19:50:00
 (E) Second Initial Flow 212 Hourly Standby _____ T-Out 22:35:00
 (F) Second Final Flow 186 Mileage 138 R.T. 106rt 164.38 Hit a bridge @ 473'
 (G) Final Shut-In 859 Sampler _____ of bottom
 (H) Final Hydrostatic 1,772 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1639.30
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60
 Sub Total 1639.30

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. 54853

Well Name & No. Berry # 1-3 Test No. 2 Date 9-21-13
 Company Murfin Drilling Company Elevation 3126 KB 3116 GL
 Address 250 N. water site 300 Wichita ks. 67202
 Co. Rep / Geo. Steve Miller Rig Murfin Rig #14
 Location: Sec. 3 Twp. 1 Rge. 36 Co. Rawlins State KS.

Interval Tested 3953-3999 Zone Tested Oread
 Anchor Length 46' Drill Pipe Run 3400 Mud Wt. 9.0
 Top Packer Depth 3948 Drill Collars Run 535 Vis 63
 Bottom Packer Depth 3953 Wt. Pipe Run _____ WL 6.8
 Total Depth 3999 Chlorides 1,100 ppm System LCM 5.0

Blow Description 30-Initial Blow - W.S.B. Died in 10 min.
60-Initial Shut in - No B.B
30-Final Flow - No Blow
60-Final Shut in - No B.B

Rec	Feet of	%gas	%oil	%water	%mud
3	Feet of <u>mud 100%</u>			<u>100</u>	
	Feet of	%gas	%oil	%water	%mud
	Feet of	%gas	%oil	%water	%mud
	Feet of	%gas	%oil	%water	%mud
	Feet of	%gas	%oil	%water	%mud

Rec Total 3 BHT 130 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2,132 Test 1150 T-On Location 19:00:00
 (B) First Initial Flow 31 Jars 250 T-Started 19:50:00
 (C) First Final Flow 34 Safety Joint 74 T-Open 20:55:00
 (D) Initial Shut-In 97 Circ Sub _____ T-Pulled 23:55:00
 (E) Second Initial Flow 40 Hourly Standby _____ T-Out 01:35:00
 (F) Second Final Flow 65 Mileage 138 Rt. 164.30 Comments _____
 (G) Final Shut-In 128 Sampler _____ Changed Ruined
 (H) Final Hydrostatic 1,816 Straddle _____ Packer (9-22-13)
 Shale Packer _____ Ruined Shale Packer _____
 Ruined Packer 320

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1959.30
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1639.30

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. 54854

Well Name & No. Berry # 1-3 Test No. 3 Date 9-22-13
 Company Murfin Drilling Company Elevation 3,126 KB 3116 GL
 Address 250 N. Water Suite 300 Wichita KS. 67202
 Co. Rep / Geo. Steve Miller Rig Murfin Rig # 14
 Location: Sec. 3 Twp. 1 Rge. 36 Co. Rawlins State KS.

Interval Tested 4,032 - 4154 Zone Tested Lans. "A-D"
 Anchor Length 122 Drill Pipe Run 3,490 Mud Wt. 9.1
 Top Packer Depth 4,027 Drill Collars Run 535 Vis 69
 Bottom Packer Depth 4,032 Wt. Pipe Run _____ WL 6.0
 Total Depth 4,154 Chlorides 1000 ppm System LCM 4.0

Blow Description 30-Initial flow - W.S.B Built to 2" in 30 min.
60-Initial shut in - No B.B.
30-Final flow - No Blow
60-Final shut in - No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>93</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 Total 93 BHT 133° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2,070</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>17:45:00</u>
(B) First Initial Flow <u>68</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>18:10:00</u>
(C) First Final Flow <u>130</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>19:55:00</u>
(D) Initial Shut-In <u>1,326</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>22:55:00</u>
(E) Second Initial Flow <u>107</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>00:38:00</u>
(F) Second Final Flow <u>112</u>	<input checked="" type="checkbox"/> Mileage <u>138 R.T</u> 164.30	Comments <u>"Thank-you"</u>
(G) Final Shut-In <u>1,312</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2,033</u>	<input type="checkbox"/> Straddle _____	

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

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1639.30
 MP/DST Disc't _____
 Sub Total 1639.30

Approved By _____ Our Representative Bob Stone

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53523

Well Name & No. Berry # 1-3 Test No. 4 Date 9/23/13
 Company Murfin Drilling Co. Elevation 3126 KB 3116 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Steve Miller Rig Murfin #14
 Location: Sec. 3 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4154-4270 Zone Tested LKC "E-I"
 Anchor Length 116' Drill Pipe Run 3617' Mud Wt. 9.1
 Top Packer Depth 4149 Drill Collars Run 535' Vis 74
 Bottom Packer Depth 4154 Wt. Pipe Run 0' WL 5.6
 Total Depth 4270 Chlorides 1000 ppm System LCM 6
 Blow Description IF - Surface blow built to 1 1/4"
ISI - No return
FF - No blow
FST - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15'</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 15' BHT 133° Gravity — API RW — @ —° F Chlorides — ppm

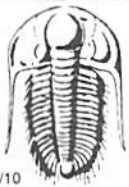
(A) Initial Hydrostatic 2047 Test 1250 T-On Location 17:30
 (B) First Initial Flow 19 Jars 250 T-Started 22:08
 (C) First Final Flow 27 Safety Joint 75 T-Open 00:16
 (D) Initial Shut-In 1178 Circ Sub NC T-Pulled 03:16
 (E) Second Initial Flow 40 Hourly Standby 1 1/4 125 T-Out 04:48
 (F) Second Final Flow 37 Mileage 130 RT 164.30
 (G) Final Shut-In 1084 Sampler _____
 (H) Final Hydrostatic 2136 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1864.30

Comments waited on wind TOWB
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1864.30
 MP/DST Disc't _____

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. 53524

4/10

Well Name & No. Berry # 1-3 Test No. 5 Date 9/24/13
 Company Martin Drilling Co. Elevation 3126 KB 3116 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Steve Miller Rig Martin #14
 Location: Sec. 3 Twp. 15 Rge. 36W Co. Rawlins State K5

Interval Tested 4255-4306 Zone Tested 2LK "J-K"
 Anchor Length 91' Drill Pipe Run 3714' Mud Wt. 9.2
 Top Packer Depth 4250 Drill Collars Run 535' Vis 75
 Bottom Packer Depth 4255 Wt. Pipe Run 0' WL 5.6
 Total Depth 4306 Chlorides 700 ppm System LCM 4
 Blow Description IF - Surface blow built to 1/4"
ISI - No return
FF - No blow
FST - No return

Rec	Feet of	%gas	%oil	%water	%mud
5'	Mud w/oil spots				100%

Rec Total 5' BHT 127° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2173 Test 1250 T-On Location 12:30
 (B) First Initial Flow 16 Jars 250 T-Started 12:36
 (C) First Final Flow 21 Safety Joint 75 T-Open 14:17
 (D) Initial Shut-In 1209 Circ Sub NC T-Pulled 17:17
 (E) Second Initial Flow 23 Hourly Standby T-Out 18:50
 (F) Second Final Flow 28 Mileage 130 RT 328.60 Comments loaded tools
 (G) Final Shut-In 1109 Sampler _____ @ 20:00 9/25/13
 (H) Final Hydrostatic 2229 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1903.60

MP/DST Disc't _____

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.



PO Box 93999
Southlake, TX 76092

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

HEET
LH

INVOICE

Invoice Number: 138736
Invoice Date: Sep 17, 2013
Page: 1

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	61275	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Sep 17, 2013	10/17/13

Quantity	Item	Description	Unit Price	Amount
190.00	CEMENT MATERIALS	Berry #1-3 Class A Common	17.90	3,401.00
7.00	CEMENT MATERIALS	Chloride	64.00	448.00
199.50	CEMENT SERVICE	Cubic Feet	2.48	494.76
827.81	CEMENT SERVICE	Ton Mileage	2.60	2,152.31
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	Manifold Rental	275.00	275.00
90.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	396.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	OPERATOR ASSISTANT	Kevin Ryan		

AKD

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

\$ 3,280.31

ONLY IF PAID ON OR BEFORE

Oct 12, 2013

Subtotal	9,372.32
Sales Tax	304.07
Total Invoice Amount	9,676.39
Payment/Credit Applied	
TOTAL	9,676.39

PO Box 93999
Southlake, TX 76092

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

INVOICE

Acct. Prod. LH

Invoice Number: 138931
Invoice Date: Sep 26, 2013
Page: 1

Bill To:

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	61111	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Sep 26, 2013	10/26/13

Quantity	Item	Description	Unit Price	Amount
132.00	CEMENT MATERIALS	Berry Class A Common	17.90	2,362.80
88.00	CEMENT MATERIALS	Pozmix	14.40	1,267.20
8.00	CEMENT MATERIALS	Gel	23.40	187.20
55.00	CEMENT MATERIALS	Flo Seal	2.97	163.35
232.60	CEMENT SERVICE	Cubic Feet	2.48	576.85
756.80	CEMENT SERVICE	Ton Mileage	2.60	1,967.68
1.00	CEMENT SERVICE	Plug to Abandon	2,558.75	2,558.75
80.00	CEMENT SERVICE	Pump Truck Mileage	7.70	616.00
80.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	352.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	107.84	107.84
1.00	CEMENT SUPERVISOR	Kelly Gabel		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		

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

\$ 3,555.70

ONLY IF PAID ON OR BEFORE

Oct 21, 2013

Subtotal	10,159.67
Sales Tax	802.61
Total Invoice Amount	10,962.28
Payment/Credit Applied	
TOTAL	10,962.28

SR

ALLIED OIL & GAS SERVICES, LLC 061111

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Oakley KS

DATE <u>9-26-13</u>	SEC. <u>3</u>	TWP. <u>1</u>	RANGE <u>36</u>	CALLED OUT <u>2:30AM</u>	ON LOCATION <u>9:00AM</u>	JOB START <u>12:00PM</u>	JOB FINISH <u>12:30 PM</u>
LEASE <u>Berry</u>	WELL #	LOCATION <u>McDonalda N to state line</u>		COUNTY <u>Rawlins</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR Murphy OWNER same

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4650

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

CEMENT

AMOUNT ORDERED 220 SKS 60140 480

gel 1/4 #10-5091

EQUIPMENT

PUMP TRUCK CEMENTER Kelly

422 HELPER Wayne

BULK TRUCK

3862310 DRIVER Brandon

BULK TRUCK

DRIVER

COMMON	<u>132 SKS @ 17.50</u>	<u>2362.50</u>
POZMIX	<u>88 SKS @ 14.00</u>	<u>1267.35</u>
GEL	<u>8 SKS @ 33.40</u>	<u>187.35</u>
CHLORIDE	@	
ASC	@	
<u>35 #10-5091</u>	<u>@ 7.92</u>	<u>163.35</u>
	@	
	@	
	@	
	@	
	@	
	@	
	@	

HANDLING 232.6 cu/ft @ 2.45 576.85

MILEAGE 9.46 hrs x 80mi x 2.52 1967.68

TOTAL 6525.88

REMARKS:

Got to location, safety meeting

rigged up, mixed cement plugs

25 @ 3080 & displaced

100 @ 2220

40 @ 265

100 @ 40 with wiper plug

30 R.H 15 M.H

SERVICE

DEPTH OF JOB 3080

PUMP TRUCK CHARGE 2558.75

EXTRA FOOTAGE @

MILEAGE MTLV 80X @ 4.40 352.00

MANIFOLD @

MILV 80 X @ 7.30 666.00

@

CHARGE TO: Murphy

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 3526.75

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.

PLUG & FLOAT EQUIPMENT

1- 8 5/8 Wooden Plug @ 107.84 107.84

@

@

@

@

TOTAL 107.84

PRINTED NAME Greg Urcuk

SIGNATURE Greg Urcuk

SALES TAX (If Any) _____

TOTAL CHARGES 10,159.17

DISCOUNT 3,555.70 IF PAID IN 30 DAYS

6,603.46 Net.