



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1155947
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: _____



1155947

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <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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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

August 21, 2013

Leon Rodak
Murfin Drilling Co., Inc.
250 N WATER STE 300
WICHITA, KS 67202-1216

Re: ACO1
API 15-051-26517-00-00
Bemis I 9
NW/4 Sec.04-12S-17W
Ellis County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

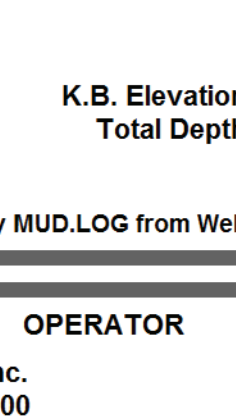
Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Leon Rodak

MDCI Bemis I #9 420' FNL 335' FWL Sec. 4-T12S-R17W 2043' KB	Bemis I #5 SW NW NW Sec. 4-T12S-R17W 2023' KB
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Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1255	+788	+1	1255	+788	+1	(Sampl)1236	+787
B/Anhydrite	1290	+753	Flat	1290	+753	Flat	1270	+753
Topeka	2972	-929	-12	2961	-918	-1	2940	-917
Heebner	3195	-1152	-9	3192	-1149	-3	3166	-1143
Toronto	3216	-1173	-10	3211	-1168	-5	3186	-1163
Lansing	3239	-1196	-9	3234	-1191	-4	3210	-1187
Stark	3433	-1390	-10	3429	-1386	-6	3403	-1380
BKC	3474	-1431	-10	3471	-1428	-7	3444	-1421
Arbuckle	3499	-1456	-7	3494	-1451	-2	3472	-1449
RTD	3630						3480	
LTD				3630			3481	

ERICKSON WELLSITE GEOLOGY



Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Bemis I #9
Location: SE NW NW Sec 4 T12S R17W
License Number: 426/2013
Surface Coordinates: 420' FNL & 335' FWL
Region: Ellis County, KS
Drilling Completed: 5/4/2013

Bottom Hole Coordinates: 2032 K.B. Elevation (ft): 2043
Ground Elevation (ft): 2032 To: TD Total Depth (ft): 3630
Logged Interval (ft): 2860
Formation:
Type of Drilling Fluid: Chemical Mud

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Murfin Drilling Co., Inc.
Address: 250 N Water, Suite 300
Wichita, KS 67202

GEOLOGIST

Name: Clayton Erickson
Company: Erickson WellSite Geology
Address: 402 Palmer Street
P.O. Box 294
Loomis, NE 68958

DSTS

DST #1 3192-3283; 30-60-60-90; Hydro: 1664-1587 IFP: 51-66 ISIP: 119 FFP: 61-71 FSIP: 114; Rec: 60' 3%g 5%o 92%w; BHT: 105 F; IF: 1 1/4" ISI: dead FF: 6 3/4" FSI: dead

DST #2 3274-3331; 30-60-30-60; Hydro: 1683-1638 IFP: 20-33 ISIP: 105 FFP: 27-39 FSIP: 103; Rec: 120' GIP 60' 20%g 40%o 5%w 35%w; BHT: 104; IF: BOB 18min ISI: dead FF: BOB 3min FSI: dead

DST #3 3352-3457; 30-60-30-60; Hydro: 1657-1591 IFP: 21-23 ISIP: 140 FFP: 23-24 FSIP: 63; Rec: 10' mud w/ oil spots; BHT: 99; IF: 1 1/4" ISI: dead FF: dead FSI: dead

DST #4 3453-3508; 30-60-60-60; Hydro: 1707-1661 IFP: 34-44 ISIP: 78 FFP: 45-49 FSIP: 73; Rec: 15' mud w/ scum of oil; BHT: 102; IF: 1 1/2" ISI: dead FF: surface dead in 48min FSI: dead

DST #5 3508-3518; 30-60-60-90; Hydro: 1729-1650 IFP: 24-133 ISIP: 160 FFP: 135-164 FSIP: 176; Rec: 263' 10%g 75%w 15%o 63' 10%g 15%o 40%w 35%w 10' 60%o 25%w 15%w; BHT: 110; RW: .272@71.4F Cht: 2550ppm; F: BOB 11 1/2min ISI: surface FF: 8" FSI: 14"

DST #6 3545-3559; 30-60-30-60; Hydro: 1768-1747 IFP: 26-168 ISIP: 1140 FFP: 177-260 FSIP: 1139; Rec: 60' 10%g 20%o 70%w 203' 10%g 70%o 20%w 419' 20%g 80%o 220' GIP; BHT: 110 Grav: 29; F: BOB 6min ISI: surface FF: BOB 8 1/2min FSI: 1 1/2"

COMMENTS

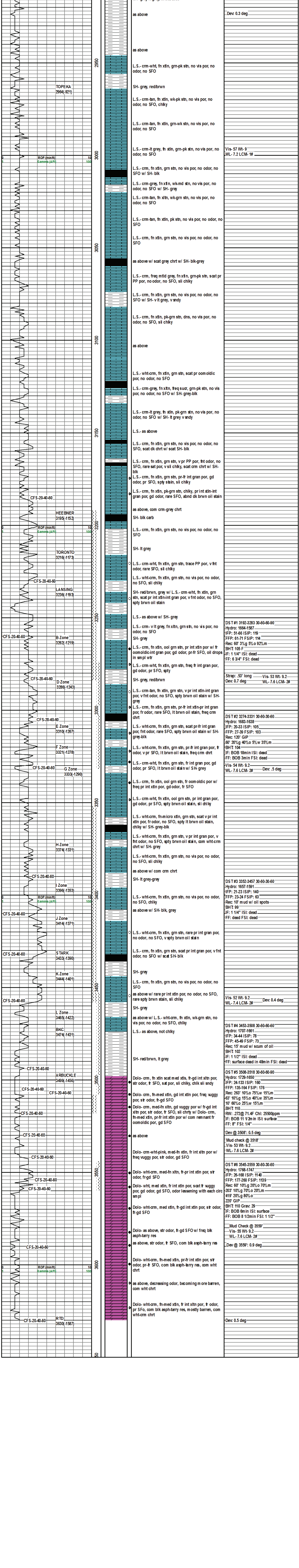
FORMATION TOPS

Anhydrite	Log Tops	Sample tops
Base Anhy	1255(+788)	1255(+788)
TOPEKA	1290(+753)	1290(+753)
HEEBNER	2962(-919)	2964(-921)
LANSING	3192(-1149)	3195(-1152)
Stark	3234(-1191)	3236(-1193)
BKC	3429(-1386)	3433(-1390)
ARBUCKLE	3472(-1429)	3474(-1431)
TD	3494(-1451)	3499(-1456)
	3630(-1587)	3630(-1587)

	Anhy		Clyst Carb. shale		Gyp		Mrlst		Shgt
	Bent		Arkose		Lmst		Shale		Siltst
	Brc		Dol		Meta		Shcol		Ss
	Cht								Till

OTHER SYMBOLS

	Oil Show Even		Spotted Ques		Dead		Interval Dst
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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Corp**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Clayton Erickson

Bemis I #9

4-12s-17w Ellis,KS

Start Date: 2013.04.30 @ 10:09:34

End Date: 2013.04.30 @ 17:26:04

Job Ticket #: 53654 DST #: 1

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

Printed: 2013.05.13 @ 14:04:39



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Corp
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Clayton Erickson

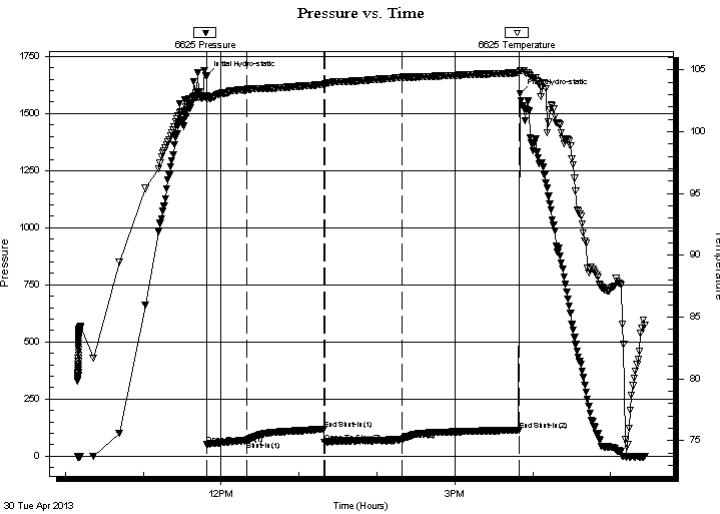
4-12s-17w Ellis,KS
Bemis I #9
Job Ticket: 53654 **DST#: 1**
Test Start: 2013.04.30 @ 10:09:34

GENERAL INFORMATION:

Formation: **Toronto-LKC B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:49:04
Time Test Ended: 17:26:04
Interval: **3192.00 ft (KB) To 3283.00 ft (KB) (TVD)**
Total Depth: 3283.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Jeff Brown
Unit No: 67
Reference Elevations: 2043.00 ft (KB)
2032.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6625 Outside
Press @ RunDepth: 71.02 psig @ 3261.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.04.30 End Date: 2013.04.30 Last Calib.: 2013.04.30
Start Time: 10:09:35 End Time: 17:26:04 Time On Btm: 2013.04.30 @ 11:48:34
Time Off Btm: 2013.04.30 @ 15:50:04

TEST COMMENT: IFP=Weak blow built to 1 1/4 in
ISI=Dead no blow back
FFP=Fair blow built to 6 3/4 in
FSI=Dead no blow back



PRESSURE SUMMARY

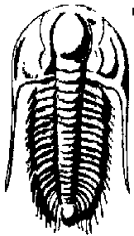
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1664.20	102.89	Initial Hydro-static
1	51.01	102.67	Open To Flow (1)
31	65.84	103.40	Shut-In(1)
91	119.02	103.84	End Shut-In(1)
91	60.98	103.84	Open To Flow (2)
151	71.02	104.41	Shut-In(2)
241	114.48	104.78	End Shut-In(2)
242	1587.11	104.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCGM 3%G 5%O 92%M	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Corp
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Clayton Erickson

4-12s-17w Ellis,KS
Bemis I #9
Job Ticket: 53654 **DST#: 1**
Test Start: 2013.04.30 @ 10:09:34

GENERAL INFORMATION:

Formation: **Toronto-LKC B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:49:04
Time Test Ended: 17:26:04
Interval: 3192.00 ft (KB) To 3283.00 ft (KB) (TVD)
Total Depth: 3283.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

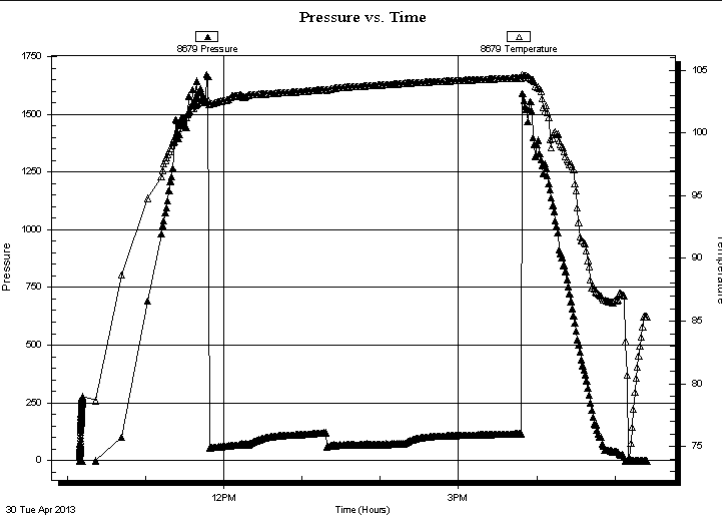
Test Type: Conventional Bottom Hole (Initial)
Tester: Jeff Brown
Unit No: 67
Reference Elevations: 2043.00 ft (KB)
2032.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8679

Inside

Press @ Run Depth: psig @ 3261.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2013.04.30 End Date: 2013.04.30	Last Calib.: 2013.04.30
Start Time: 10:09:39 End Time: 17:24:38	Time On Btm:
	Time Off Btm:

TEST COMMENT: IFP=Weak blow built to 1 1/4 in
ISI=Dead no blow back
FFP=Fair blow built to 6 3/4 in
FSI=Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCGM 3%G 5%O 92%M	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Corp
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Clayton Erickson

4-12s-17w Ellis, KS
Bemis I #9
Job Ticket: 53654 **DST#: 1**
Test Start: 2013.04.30 @ 10:09:34

Tool Information

Drill Pipe:	Length: 2921.00 ft	Diameter: 3.80 inches	Volume: 40.97 bbl	Tool Weight: 2200.00 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: 263.00 ft	Diameter: 2.25 inches	Volume: 1.29 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 42.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	3192.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	119.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3165.00	
Shut In Tool	5.00			3170.00	
Hydraulic tool	5.00			3175.00	
Jars	5.00			3180.00	
Safety Joint	3.00			3183.00	
Packer	4.00			3187.00	28.00 Bottom Of Top Packer
Packer	5.00			3192.00	
Stubb	1.00			3193.00	
Perforations	3.00			3196.00	
Change Over Sub	1.00			3197.00	
Drill Pipe	63.00			3260.00	
Change Over Sub	1.00			3261.00	
Recorder	0.00	6625	Outside	3261.00	
Recorder	0.00	8679	Inside	3261.00	
Perforations	19.00			3280.00	
Bullnose	3.00			3283.00	91.00 Bottom Packers & Anchor
Total Tool Length:	119.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Corp

4-12s-17w Ellis,KS

250 N Water Ste 300
Wichita KS 67202-1216

Bemis I #9

Job Ticket: 53654

DST#: 1

ATTN: Clayton Erickson

Test Start: 2013.04.30 @ 10:09:34

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOCGM 3%G 5%O 92%M	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

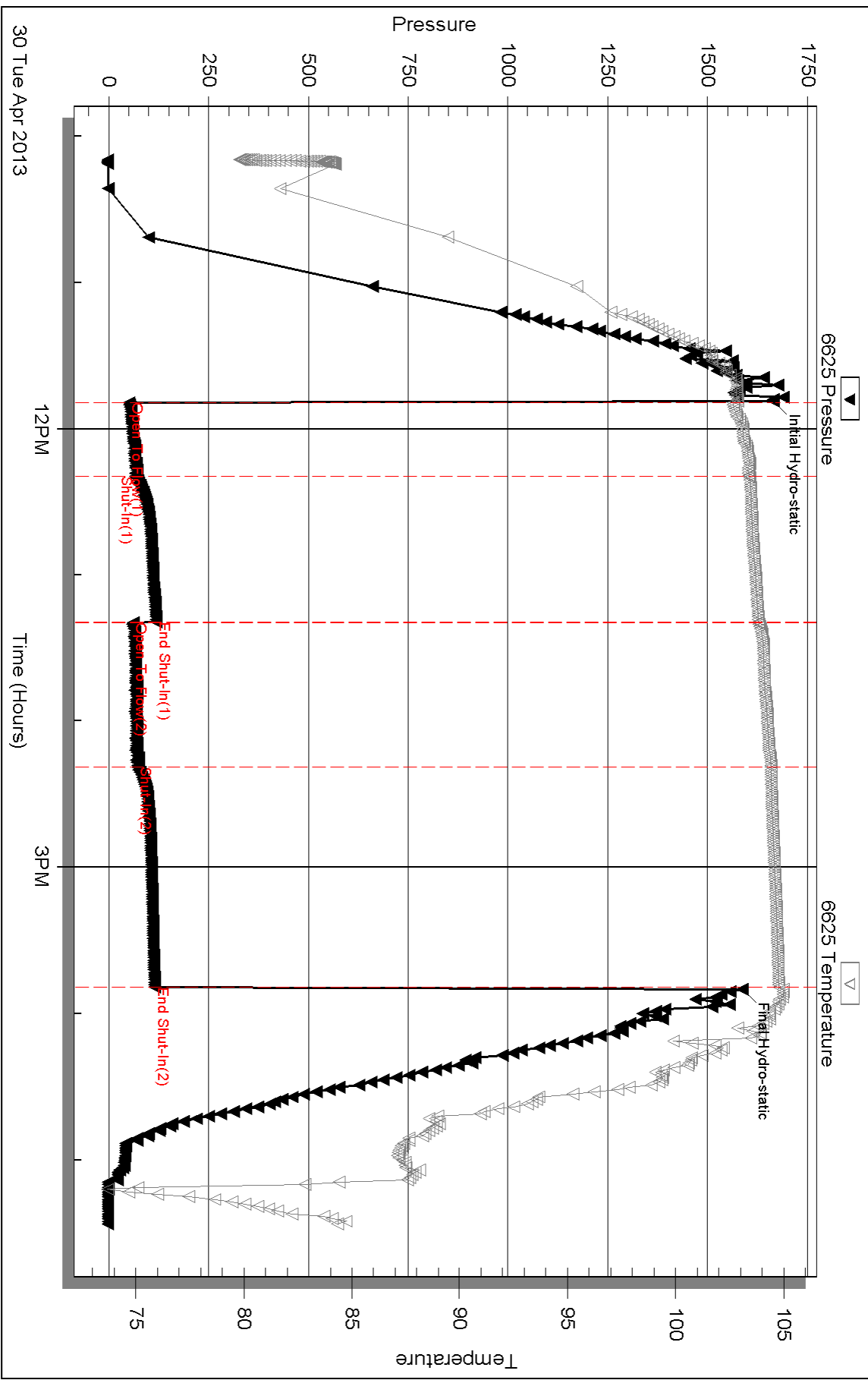
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



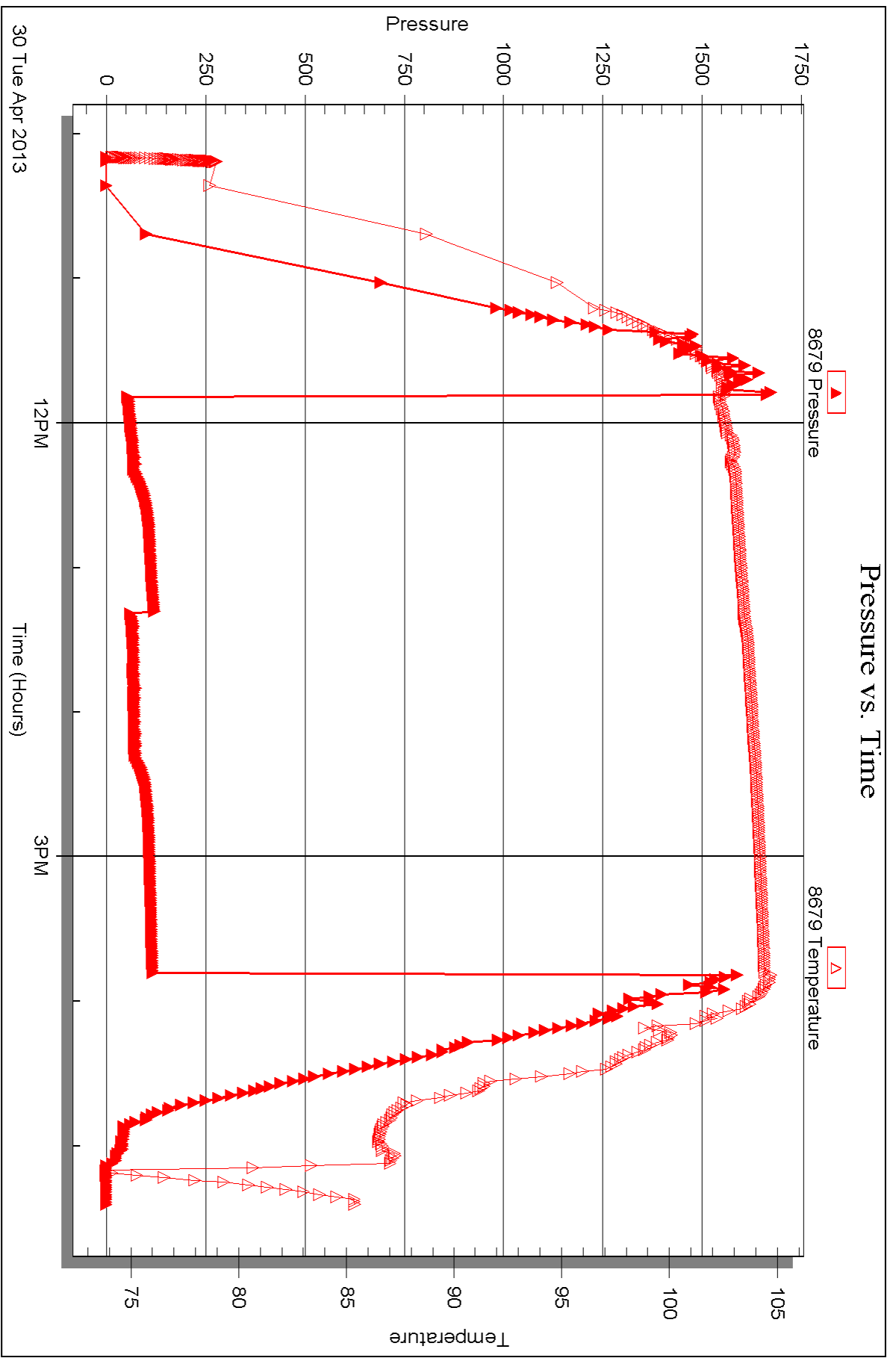
Serial #: 8679

Inside

Murfin Drilling Corp

Bennis I #9

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 53854

Printed: 2013.05.13 @ 14:04:42



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Corp**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Clayton Erickson

Bemis I #9

4-12s-17w Ellis,KS

Start Date: 2013.05.01 @ 01:50:15

End Date: 2013.05.01 @ 08:35:15

Job Ticket #: 53655 DST #: 2

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

Printed: 2013.05.13 @ 14:03:46



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Corp
 250 N Water Ste 300
 Wichita KS 67202-1216
 ATTN: Clayton Erickson

4-12s-17w Ellis,KS
Bemis I #9
 Job Ticket: 53655 **DST#: 2**
 Test Start: 2013.05.01 @ 01:50:15

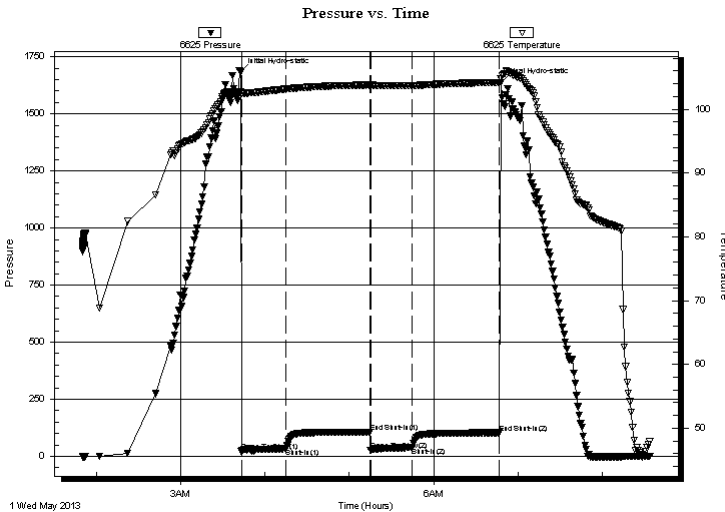
GENERAL INFORMATION:

Formation: **LKC D-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:43:15
 Time Test Ended: 08:35:15
 Interval: **3274.00 ft (KB) To 3331.00 ft (KB) (TVD)**
 Total Depth: 3331.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jeff Brown
 Unit No: 67
 Reference Elevations: 2043.00 ft (KB)
 2032.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6625 Outside
 Press @ Run Depth: 39.35 psig @ 3310.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.01 End Date: 2013.05.01 Last Calib.: 2013.05.01
 Start Time: 01:50:16 End Time: 08:34:15 Time On Btm: 2013.05.01 @ 03:42:45
 Time Off Btm: 2013.05.01 @ 06:47:45

TEST COMMENT: IFP=Good blow BOB in 18 min
 ISI=Dead no blow back
 FFP=Strong blow BOB in 3 min
 FSI=Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.35	102.76	Initial Hydro-static
1	19.84	102.54	Open To Flow (1)
32	33.38	103.16	Shut-In(1)
92	105.45	103.82	End Shut-In(1)
93	27.30	103.80	Open To Flow (2)
122	39.35	103.72	Shut-In(2)
184	103.23	104.21	End Shut-In(2)
185	1637.70	104.77	Final Hydro-static

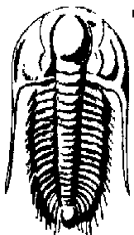
Recovery

Length (ft)	Description	Volume (bbl)
60.00	HOCGWM 20%G 5%W 35%M 40%O	0.30
120.00	GIP	0.59

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Corp
250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Clayton Erickson

4-12s-17w Ellis,KS
Bemis I #9
Job Ticket: 53655 **DST#: 2**
Test Start: 2013.05.01 @ 01:50:15

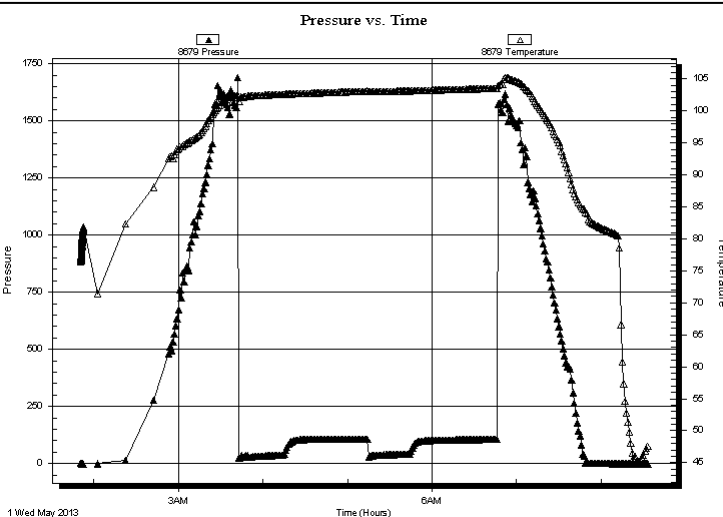
GENERAL INFORMATION:

Formation: **LKC D-F**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 03:43:15 Tester: Jeff Brown
Time Test Ended: 08:35:15 Unit No: 67

Interval: **3274.00 ft (KB) To 3331.00 ft (KB) (TVD)** Reference Elevations: 2043.00 ft (KB)
Total Depth: 3331.00 ft (KB) (TVD) 2032.00 ft (CF)
Hole Diameter: 7.88 inchesHole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8679 Inside
Press @ RunDepth: psig @ 3310.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.05.01 End Date: 2013.05.01 Last Calib.: 2013.05.01
Start Time: 01:50:37 End Time: 08:33:06 Time On Btm:
Time Off Btm:

TEST COMMENT: IFP=Good blow BOB in 18 min
ISI=Dead no blow back
FFP=Strong blow BOB in 3 min
FSI=Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	HOCGWM 20%G 5%W 35%M 40%O	0.30
120.00	GIP	0.59

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Corp
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Clayton Erickson

4-12s-17w Ellis, KS
Bemis I #9
Job Ticket: 53655 **DST#: 2**
Test Start: 2013.05.01 @ 01:50:15

Tool Information

Drill Pipe:	Length: 3014.00 ft	Diameter: 3.80 inches	Volume: 42.28 bbl	Tool Weight: 2200.00 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: 263.00 ft	Diameter: 2.25 inches	Volume: 1.29 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 43.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	3274.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	85.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3247.00	
Shut In Tool	5.00			3252.00	
Hydraulic tool	5.00			3257.00	
Jars	5.00			3262.00	
Safety Joint	3.00			3265.00	
Packer	4.00			3269.00	28.00 Bottom Of Top Packer
Packer	5.00			3274.00	
Stubb	1.00			3275.00	
Perforations	2.00			3277.00	
Change Over Sub	1.00			3278.00	
Drill Pipe	31.00			3309.00	
Change Over Sub	1.00			3310.00	
Recorder	0.00	6625	Outside	3310.00	
Recorder	0.00	8679	Inside	3310.00	
Perforations	18.00			3328.00	
Bullnose	3.00			3331.00	57.00 Bottom Packers & Anchor
Total Tool Length:	85.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Corp

4-12s-17w Ellis,KS

250 N Water Ste 300
Wichita KS 67202-1216

Bemis I #9

Job Ticket: 53655

DST#: 2

ATTN: Clayton Erickson

Test Start: 2013.05.01 @ 01:50:15

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	HOCGWM 20%G 5%W 35%M 40%O	0.295
120.00	GIP	0.590

Total Length: 180.00 ft

Total Volume: 0.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

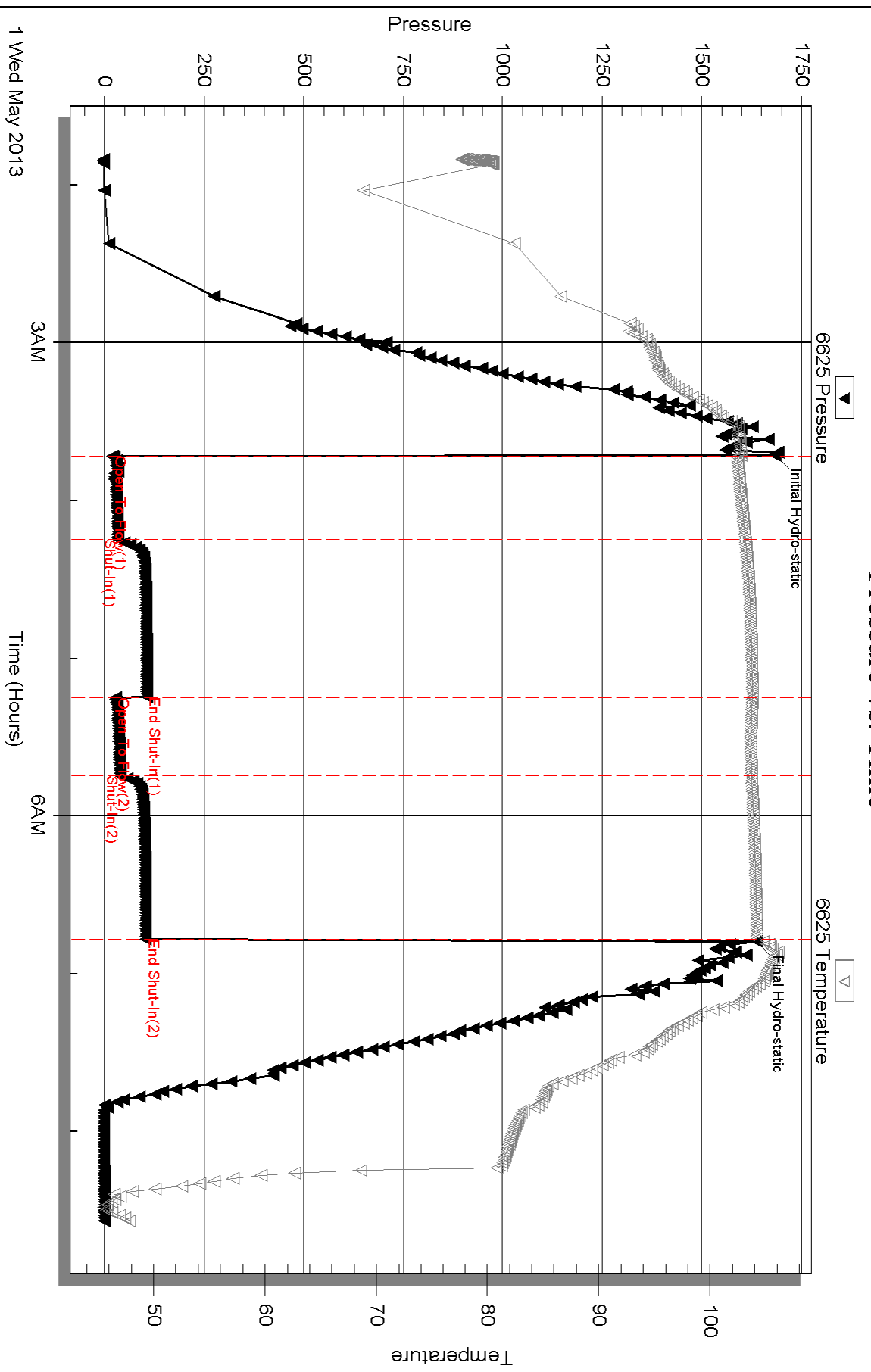
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



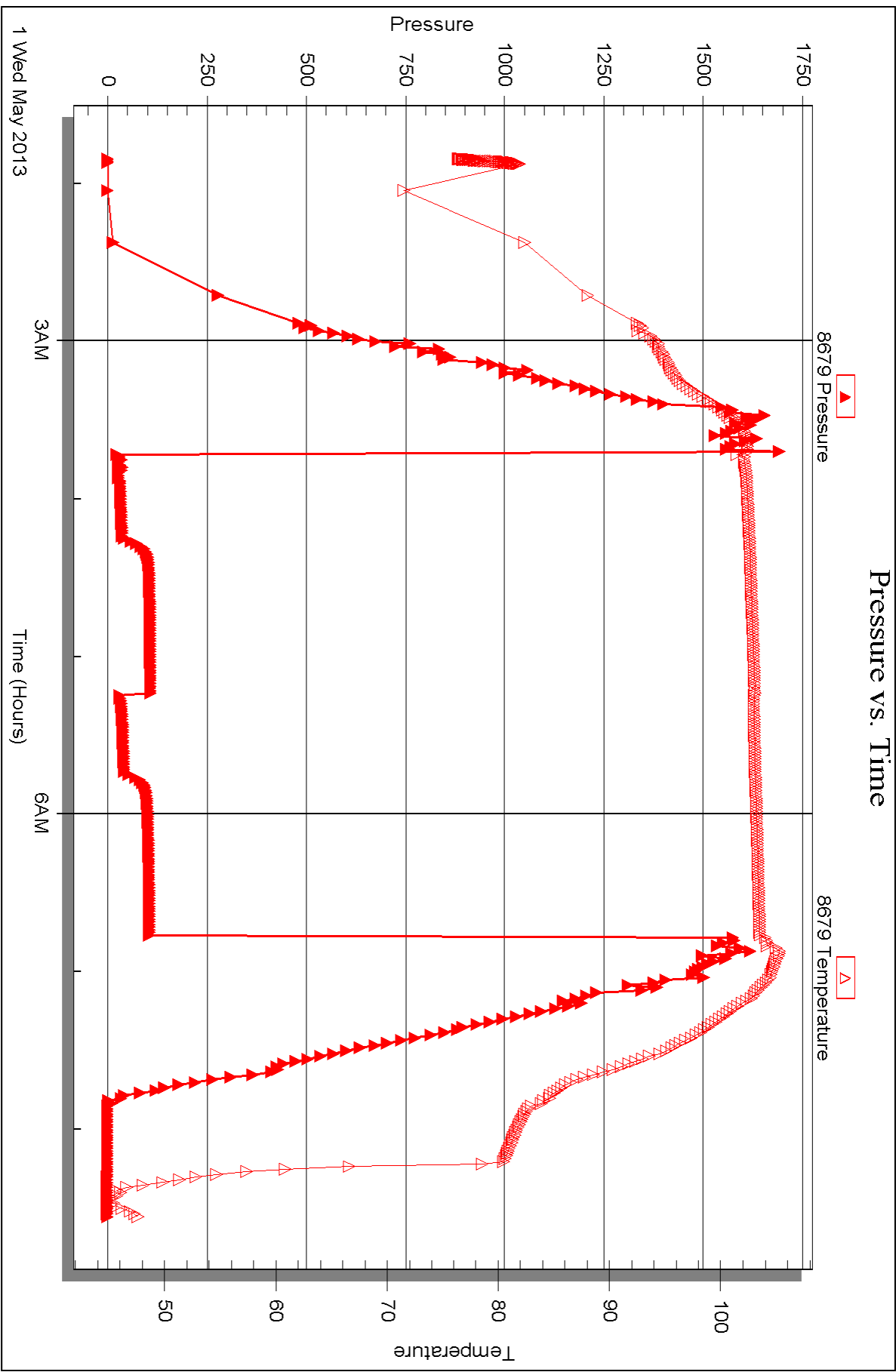
Serial #: 8679

Inside

Murfin Drilling Corp

Bennis I #9

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Corp**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Clayton Erickson

Bemis I #9

4-12s-17w Ellis,KS

Start Date: 2013.05.02 @ 02:04:24

End Date: 2013.05.02 @ 08:38:54

Job Ticket #: 53656 DST #: 3

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

Printed: 2013.05.13 @ 14:03:07

Murfin Drilling Corp
4-12s-17w Ellis,KS
Bemis I #9
DST # 3
LKC-H-K
2013.05.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Corp
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Clayton Erickson

4-12s-17w Ellis, KS

Bemis I #9

Job Ticket: 53656

DST#: 3

Test Start: 2013.05.02 @ 02:04:24

GENERAL INFORMATION:

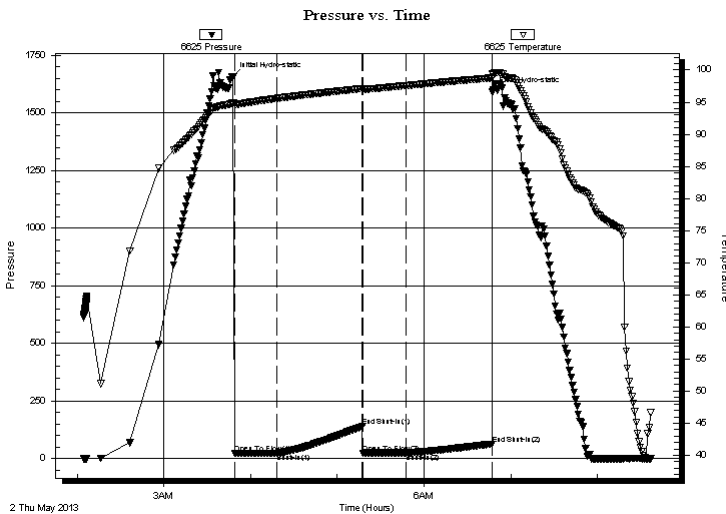
Formation: **LKC H-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:48:54
 Time Test Ended: 08:38:54
 Interval: **3352.00 ft (KB) To 3457.00 ft (KB) (TVD)**
 Total Depth: 3457.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jeff Brown
 Unit No: 67
 Reference Elevations: 2043.00 ft (KB)
 2032.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6625 Outside

Press @ Run Depth: 24.28 psig @ 3421.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.02 End Date: 2013.05.02 Last Calib.: 2013.05.02
 Start Time: 02:04:25 End Time: 08:36:54 Time On Btm: 2013.05.02 @ 03:47:54
 Time Off Btm: 2013.05.02 @ 06:47:24

TEST COMMENT: IFP=Weak blow built to 1 1/4 in
 ISI=Dead no blow back
 FFP=Dead no blow
 FSI=Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1656.70	94.91	Initial Hydro-static
1	21.39	94.70	Open To Flow (1)
30	23.13	95.57	Shut-In(1)
90	139.92	97.11	End Shut-In(1)
90	22.98	97.11	Open To Flow (2)
120	24.28	97.59	Shut-In(2)
179	63.02	98.76	End Shut-In(2)
180	1591.18	99.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud with oil spots	0.05

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Corp
 250 N Water Ste 300
 Wichita KS 67202-1216
 ATTN: Clayton Erickson

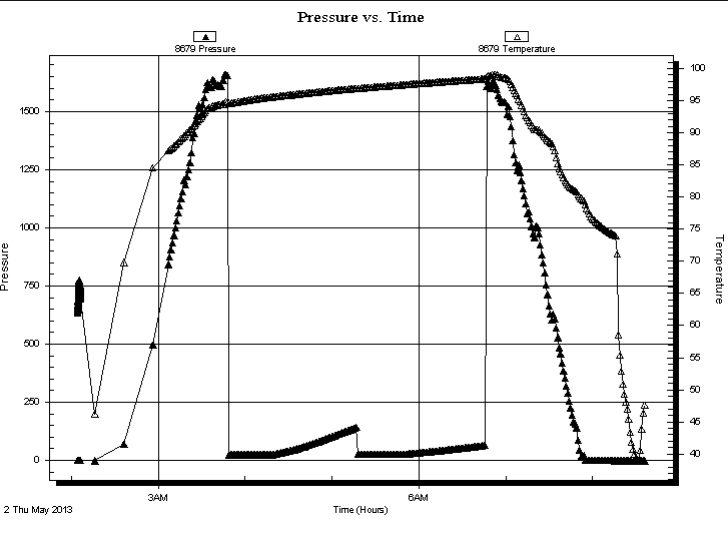
4-12s-17w Ellis, KS
Bemis I #9
 Job Ticket: 53656 **DST#: 3**
 Test Start: 2013.05.02 @ 02:04:24

GENERAL INFORMATION:

Formation: **LKC H-K**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 03:48:54 Tester: Jeff Brown
 Time Test Ended: 08:38:54 Unit No: 67
Interval: 3352.00 ft (KB) To 3457.00 ft (KB) (TVD) Reference Elevations: 2043.00 ft (KB)
 Total Depth: 3457.00 ft (KB) (TVD) 2032.00 ft (CF)
 Hole Diameter: 7.88 inchesHole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8679 Inside
 Press@RunDepth: psig @ 3421.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.02 End Date: 2013.05.02 Last Calib.: 2013.05.02
 Start Time: 02:04:26 End Time: 08:35:55 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP=Weak blow built to 1 1/4 in
 ISI=Dead no blow back
 FFP=Dead no blow
 FSI=Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w ith oil spots	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 Corp
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Clayton Erickson

4-12s-17w Ellis, KS
Bemis I #9
Job Ticket: 53656 **DST#: 3**
Test Start: 2013.05.02 @ 02:04:24

Tool Information

Drill Pipe:	Length: 3078.00 ft	Diameter: 3.80 inches	Volume: 43.18 bbl	Tool Weight: 2200.00 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: 263.00 ft	Diameter: 2.25 inches	Volume: 1.29 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 44.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	3352.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	105.00 ft			
Tool Length:	133.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3325.00	
Shut In Tool	5.00			3330.00	
Hydraulic tool	5.00			3335.00	
Jars	5.00			3340.00	
Safety Joint	3.00			3343.00	
Packer	4.00			3347.00	28.00 Bottom Of Top Packer
Packer	5.00			3352.00	
Stubb	1.00			3353.00	
Perforations	3.00			3356.00	
Change Over Sub	1.00			3357.00	
Drill Pipe	63.00			3420.00	
Change Over Sub	1.00			3421.00	
Recorder	0.00	6625	Outside	3421.00	
Recorder	0.00	8679	Inside	3421.00	
Perforations	33.00			3454.00	
Bullnose	3.00			3457.00	105.00 Bottom Packers & Anchor
Total Tool Length:	133.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Corp

4-12s-17w Ellis,KS

250 N Water Ste 300
Wichita KS 67202-1216

Bemis I #9

Job Ticket: 53656

DST#: 3

ATTN: Clayton Erickson

Test Start: 2013.05.02 @ 02:04:24

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w ith oil spots	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

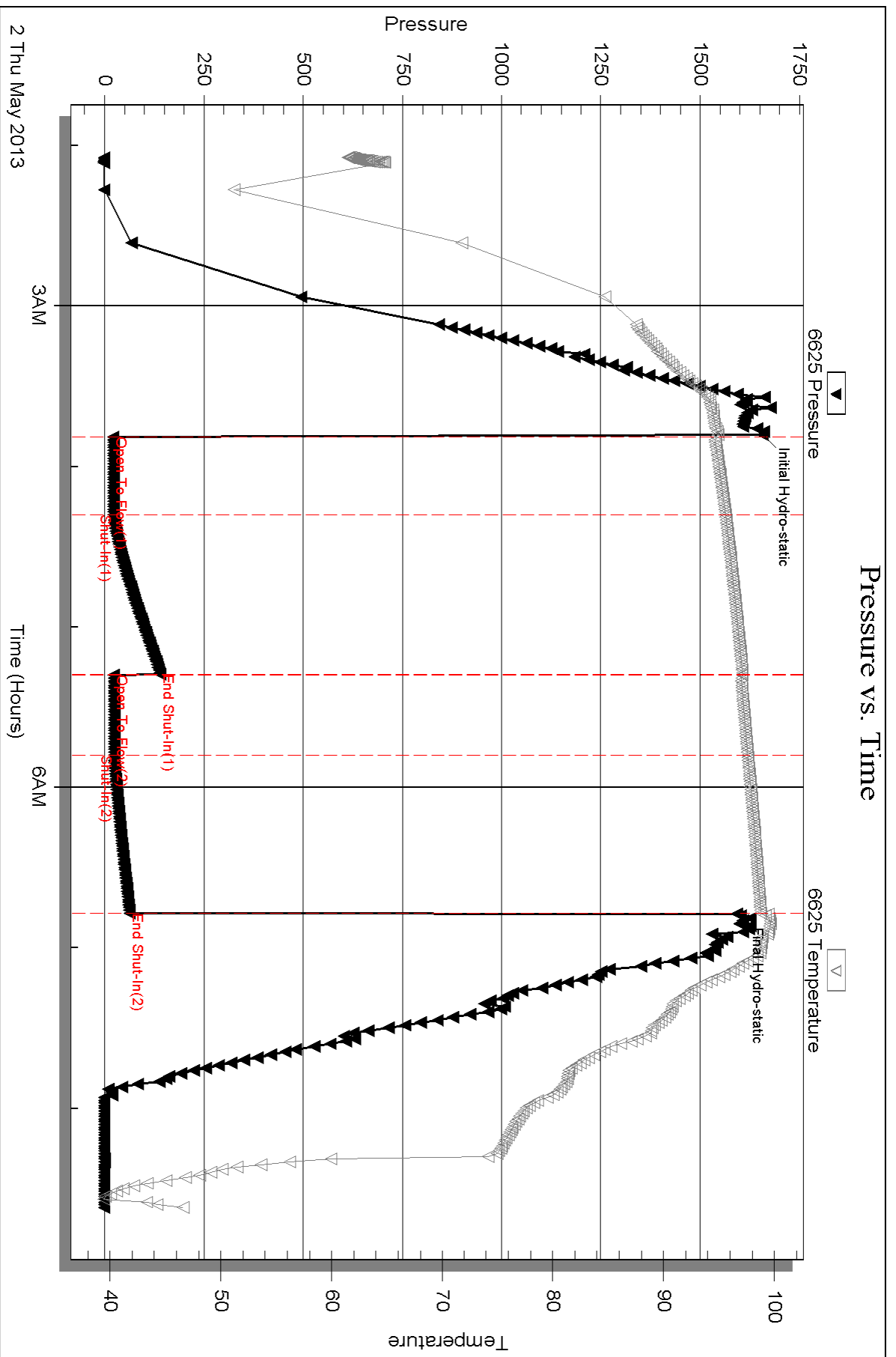
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



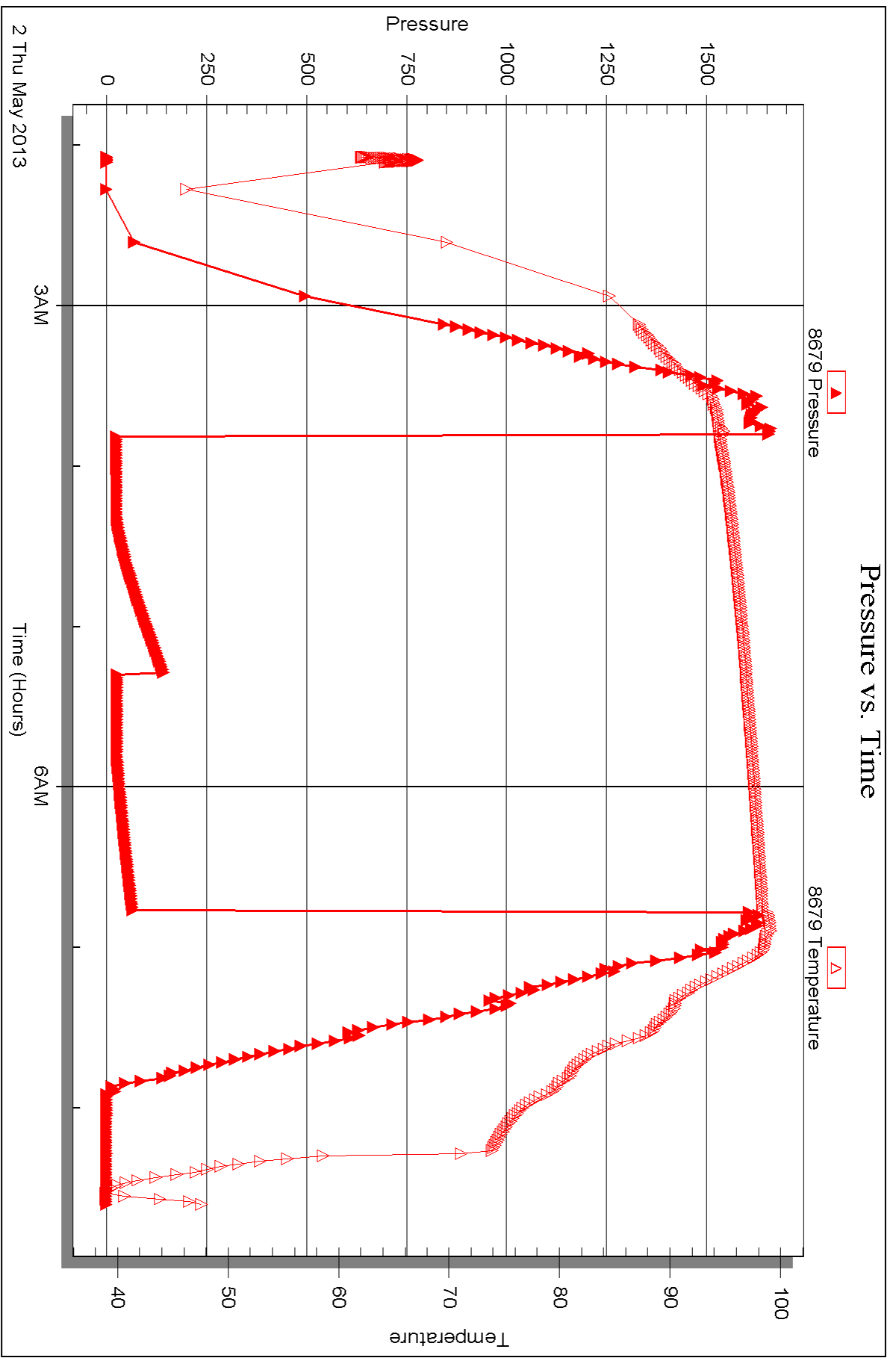
Serial #: 8679

Inside

Murfin Drilling Corp

Bennis I #9

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Corp**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Clayton Erickson

Bemis I #9

4-12s-17w Ellis,KS

Start Date: 2013.05.02 @ 17:23:15

End Date: 2013.05.03 @ 00:48:45

Job Ticket #: 53657 DST #: 4

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

Printed: 2013.05.13 @ 14:02:31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Corp
 250 N Water Ste 300
 Wichita KS 67202-1216
 ATTN: Clayton Erickson

4-12s-17w Ellis,KS

Bemis I #9

Job Ticket: 53657

DST#: 4

Test Start: 2013.05.02 @ 17:23:15

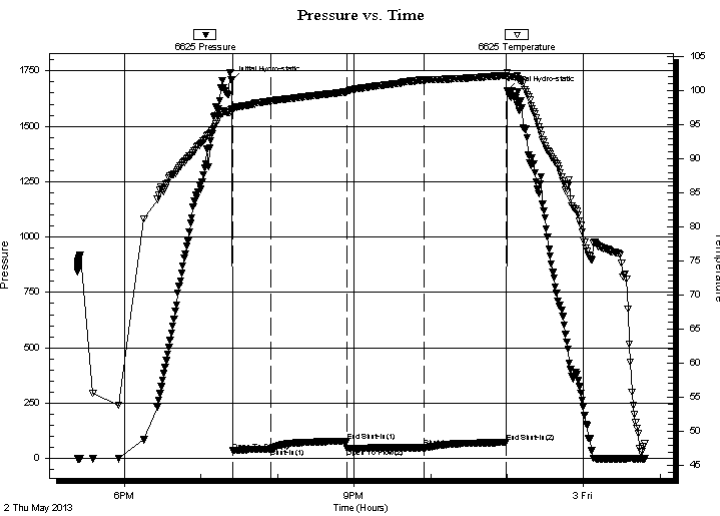
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 19:24:45
 Tester: Jeff Brown
 Time Test Ended: 00:48:45
 Unit No: 67
 Interval: **3453.00 ft (KB) To 3508.00 ft (KB) (TVD)**
 Reference Elevations: 2043.00 ft (KB)
 Total Depth: 3508.00 ft (KB) (TVD)
 2032.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 11.00 ft

Serial #: 6625 Outside

Press @ Run Depth: 48.74 psig @ 3490.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.02 End Date: 2013.05.03 Last Calib.: 2013.05.03
 Start Time: 17:23:16 End Time: 00:47:45 Time On Btm: 2013.05.02 @ 19:24:15
 Time Off Btm: 2013.05.02 @ 22:59:45

TEST COMMENT: IFP=Weak blow built to 1 1/2 in
 ISI=Dead no blow back
 FFP=Weak surface blow died out in 48 min
 FSI=Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1707.16	97.28	Initial Hydro-static
1	34.16	97.08	Open To Flow (1)
31	44.13	98.49	Shut-In(1)
90	77.97	99.80	End Shut-In(1)
91	44.78	99.84	Open To Flow (2)
151	48.74	101.54	Shut-In(2)
215	72.80	102.21	End Shut-In(2)
216	1660.80	102.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud with a scum of oil	0.07

* 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 Corp

4-12s-17w Ellis, KS

250 N Water Ste 300
Wichita KS 67202-1216

Bemis I #9

Job Ticket: 53657

DST#: 4

ATTN: Clayton Erickson

Test Start: 2013.05.02 @ 17:23:15

Tool Information

Drill Pipe:	Length: 3173.00 ft	Diameter: 3.80 inches	Volume: 44.51 bbl	Tool Weight: 2200.00 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: 263.00 ft	Diameter: 2.25 inches	Volume: 1.29 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 45.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	3453.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3426.00	
Shut In Tool	5.00			3431.00	
Hydraulic tool	5.00			3436.00	
Jars	5.00			3441.00	
Safety Joint	3.00			3444.00	
Packer	4.00			3448.00	28.00 Bottom Of Top Packer
Packer	5.00			3453.00	
Stubb	1.00			3454.00	
Perforations	3.00			3457.00	
Change Over Sub	1.00			3458.00	
Drill Pipe	31.00			3489.00	
Change Over Sub	1.00			3490.00	
Recorder	0.00	6625	Outside	3490.00	
Recorder	0.00	8679	Inside	3490.00	
Perforations	15.00			3505.00	
Bullnose	3.00			3508.00	55.00 Bottom Packers & Anchor
Total Tool Length:	83.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Corp

4-12s-17w Ellis,KS

250 N Water Ste 300
Wichita KS 67202-1216

Bemis I #9

Job Ticket: 53657

DST#: 4

ATTN: Clayton Erickson

Test Start: 2013.05.02 @ 17:23:15

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud with a scum of oil	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

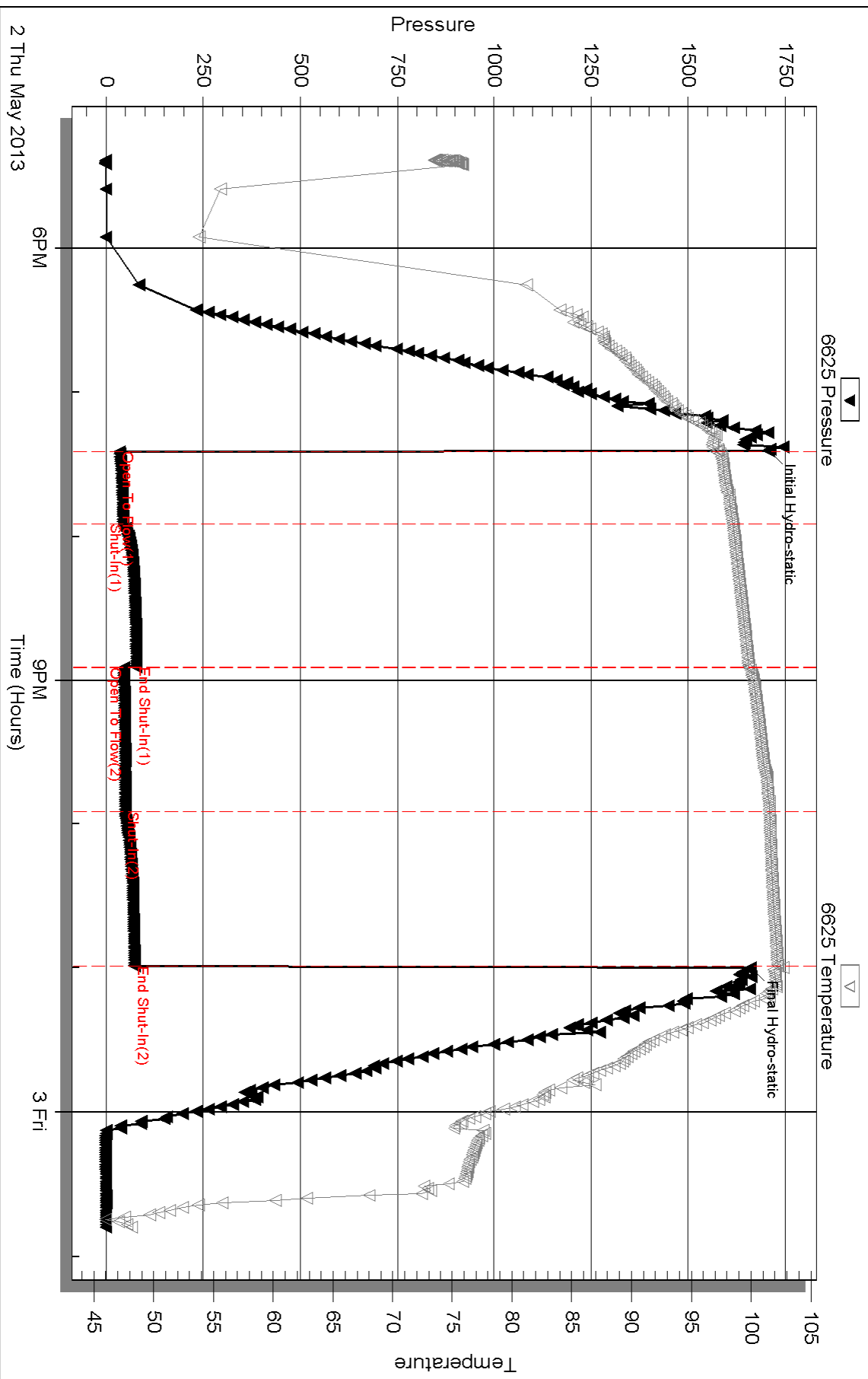
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



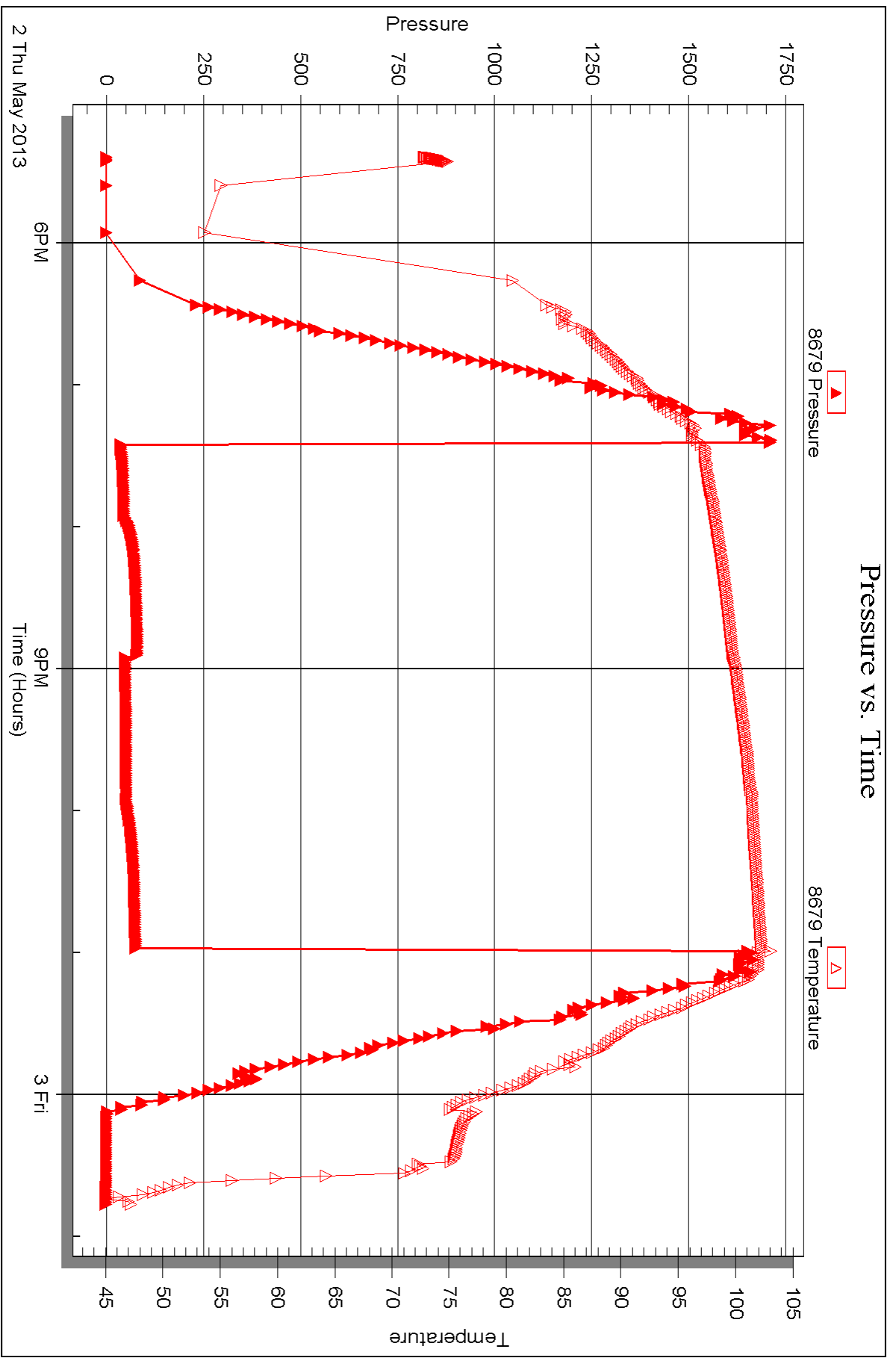
Serial #: 8679

Inside

Murfin Drilling Corp

Bennis I #9

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 53657

Printed: 2013.05.13 @ 14:02:34



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Corp**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Clayton Erickson

Bemis I #9

4-12s-17w Ellis,KS

Start Date: 2013.05.03 @ 05:52:15

End Date: 2013.05.03 @ 13:55:15

Job Ticket #: 53658 DST #: 5

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

Printed: 2013.05.13 @ 14:01:50



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Corp
 250 N Water Ste 300
 Wichita KS 67202-1216
 ATTN: Clayton Erickson

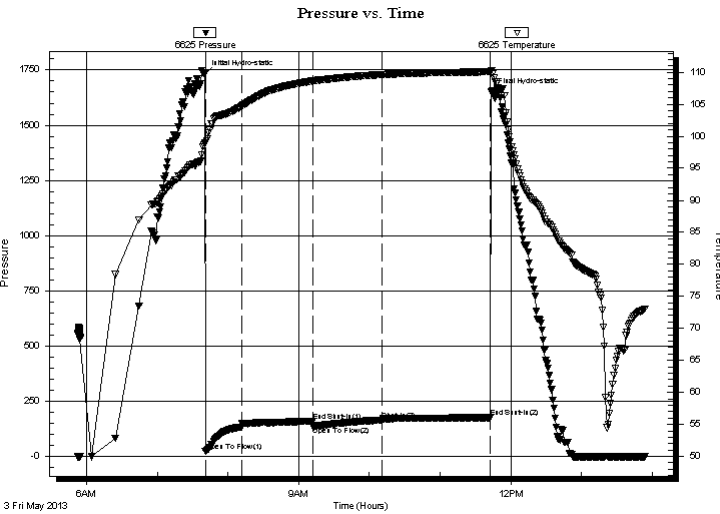
4-12s-17w Ellis, KS
Bemis I #9
 Job Ticket: 53658 **DST#: 5**
 Test Start: 2013.05.03 @ 05:52:15

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:40:45
 Time Test Ended: 13:55:15
 Interval: **3508.00 ft (KB) To 3518.00 ft (KB) (TVD)**
 Total Depth: 3518.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jeff Brown
 Unit No: 67
 Reference Elevations: 2043.00 ft (KB)
 2032.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6625 Outside
 Press @ Run Depth: 164.15 psig @ 3509.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.03 End Date: 2013.05.03 Last Calib.: 2013.05.03
 Start Time: 05:52:16 End Time: 13:54:15 Time On Btm: 2013.05.03 @ 07:40:15
 Time Off Btm: 2013.05.03 @ 11:43:45

TEST COMMENT: IFP=Good blow BOB in 11-1/2 min
 ISI=Weak surface blow back
 FFP=Fair blow built to 8 in
 FSI=Weak surface blow back built to 1/4 in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1729.38	98.83	Initial Hydro-static
1	23.80	99.04	Open To Flow (1)
31	133.19	104.67	Shut-In(1)
92	160.40	108.64	End Shut-In(1)
92	134.79	108.65	Open To Flow (2)
151	164.15	109.63	Shut-In(2)
243	175.77	110.08	End Shut-In(2)
244	1649.72	110.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
263.00	OCMW 10%O 15%M 75%W	1.29
63.00	GOCMW 10%G 15%O 35%M 40%W	0.88
10.00	MCWO 15%M 25%W 60%O	0.14

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Corp
250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Clayton Erickson

4-12s-17w Ellis, KS

Bemis I #9

Job Ticket: 53658

DST#: 5

Test Start: 2013.05.03 @ 05:52:15

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:40:45
 Time Test Ended: 13:55:15
 Interval: **3508.00 ft (KB) To 3518.00 ft (KB) (TVD)**
 Total Depth: 3518.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jeff Brown
 Unit No: 67
 Reference Elevations: 2043.00 ft (KB)
 2032.00 ft (CF)
 KB to GR/CF: 11.00 ft

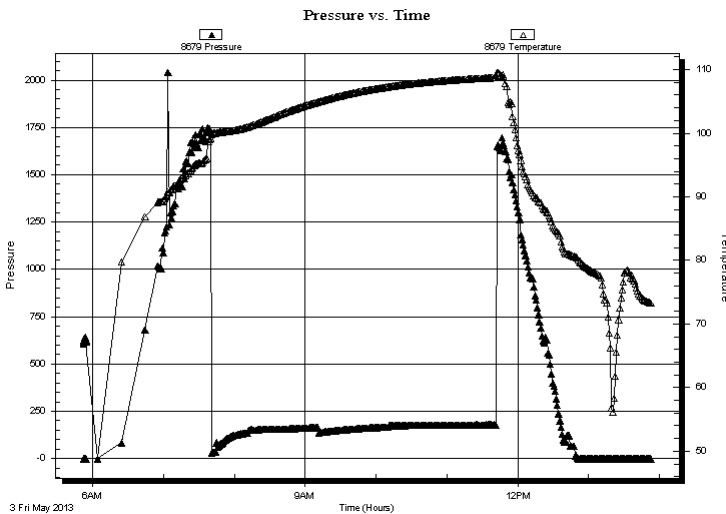
Serial #: 8679

Inside

Press @ Run Depth: psig @ 3509.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.03 End Date: 2013.05.03 Last Calib.: 2013.05.03
 Start Time: 05:52:10 End Time: 13:52:39 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP=Good blow BOB in 11-1/2 min
 ISI=Weak surface blow back
 FFP=Fair blow built to 8 in
 FSI=Weak surface blow back built to 1/4 in

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
263.00	OCMW 10%O 15%M 75%W	1.29
63.00	GOCMW 10%G 15%O 35%M 40%W	0.88
10.00	MCWO 15%M 25%W 60%O	0.14

* 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 Corp
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Clayton Erickson

4-12s-17w Ellis, KS
Bemis I #9
Job Ticket: 53658 **DST#: 5**
Test Start: 2013.05.03 @ 05:52:15

Tool Information

Drill Pipe:	Length: 3236.00 ft	Diameter: 3.80 inches	Volume: 45.39 bbl	Tool Weight: 2200.00 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: 263.00 ft	Diameter: 2.25 inches	Volume: 1.29 bbl	Weight to Pull Loose: lb
		Total Volume: 46.68 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	3508.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3481.00	
Shut In Tool	5.00			3486.00	
Hydraulic tool	5.00			3491.00	
Jars	5.00			3496.00	
Safety Joint	3.00			3499.00	
Packer	4.00			3503.00	28.00 Bottom Of Top Packer
Packer	5.00			3508.00	
Stubb	1.00			3509.00	
Recorder	0.00	6625	Outside	3509.00	
Recorder	0.00	8679	Inside	3509.00	
Perforations	6.00			3515.00	
Bullnose	3.00			3518.00	10.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Corp

4-12s-17w Ellis,KS

250 N Water Ste 300
Wichita KS 67202-1216

Bemis I #9

Job Ticket: 53658

DST#: 5

ATTN: Clayton Erickson

Test Start: 2013.05.03 @ 05:52:15

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
263.00	OCCMW 10%O 15%M 75%W	1.293
63.00	GOCMW 10%G 15%O 35%M 40%W	0.884
10.00	MCWO 15%M 25%W 60%O	0.140

Total Length: 336.00 ft

Total Volume: 2.317 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

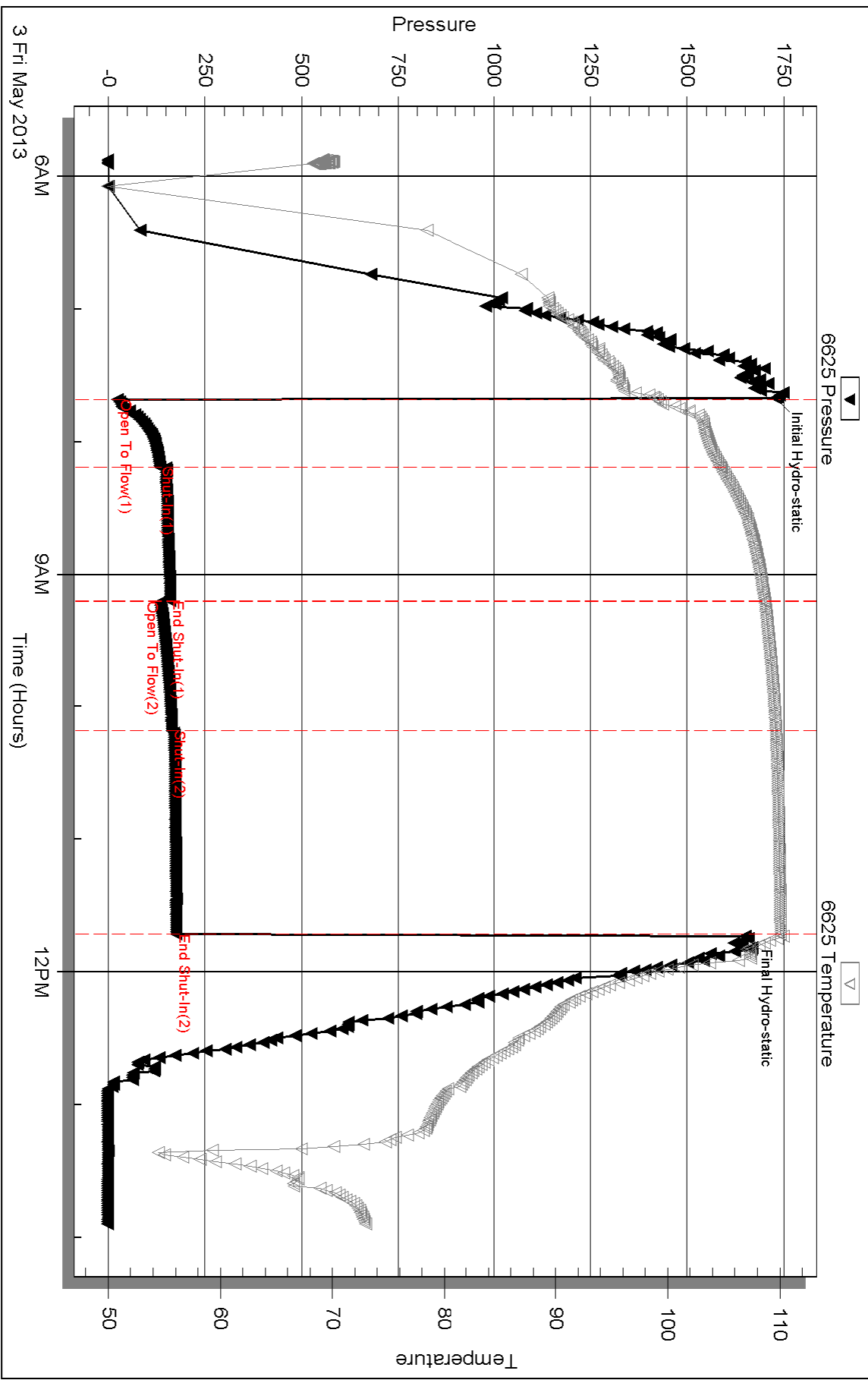
Serial #: 6625

Outside Murfin Drilling Corp

Bemis I #9

DST Test Number: 5

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 53658

Printed: 2013.05.13 @ 14:01:53

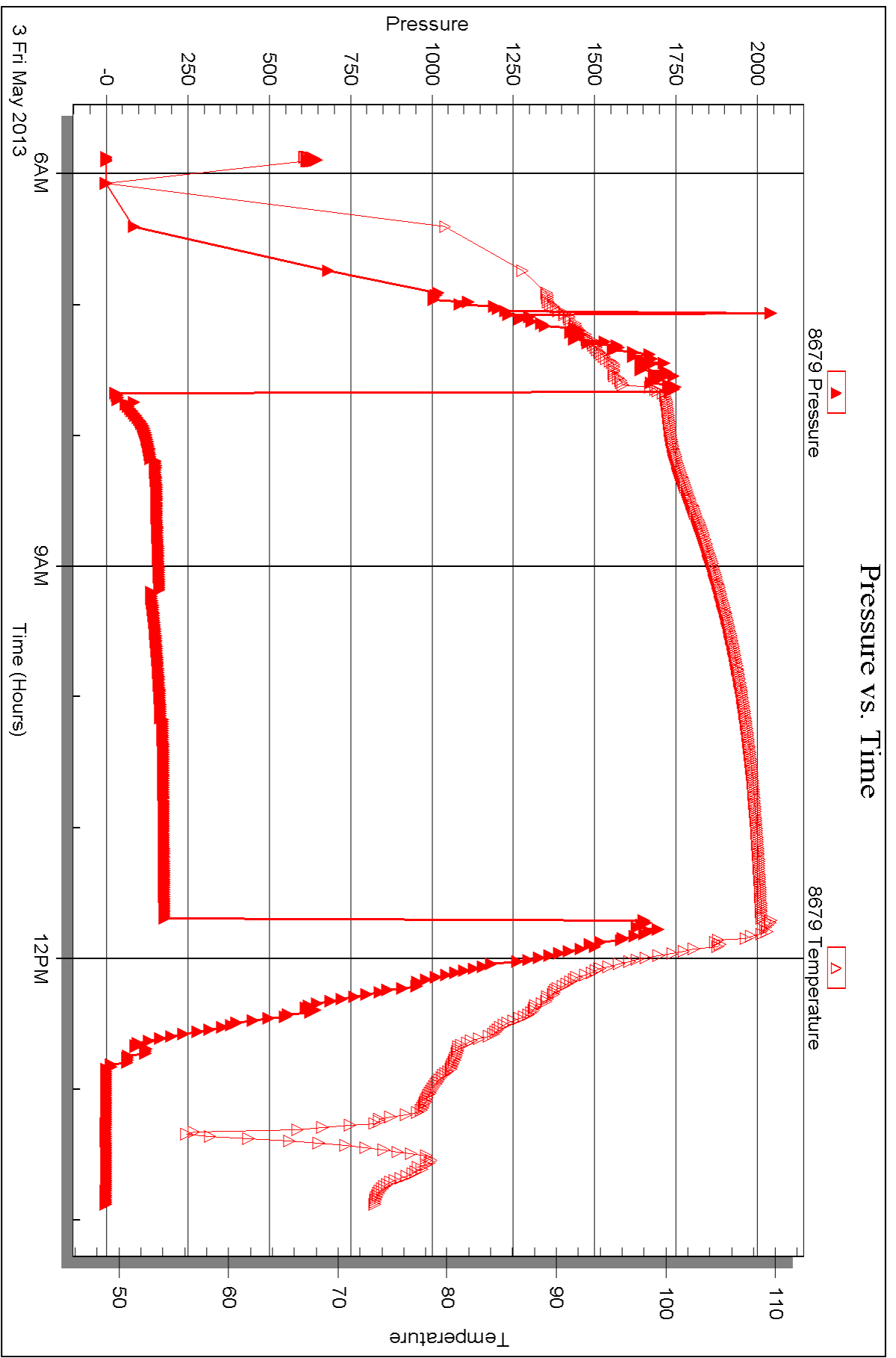
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Inside

Murfin Drilling Corp

Bennis I #9

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Corp**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Clayton Erickson

Bemis I #9

4-12s-17w Ellis,KS

Start Date: 2013.05.03 @ 23:33:22

End Date: 2013.05.04 @ 07:16:52

Job Ticket #: 53659 DST #: 6

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

Printed: 2013.05.13 @ 14:01:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Corp
 250 N Water Ste 300
 Wichita KS 67202-1216
 ATTN: Clayton Erickson

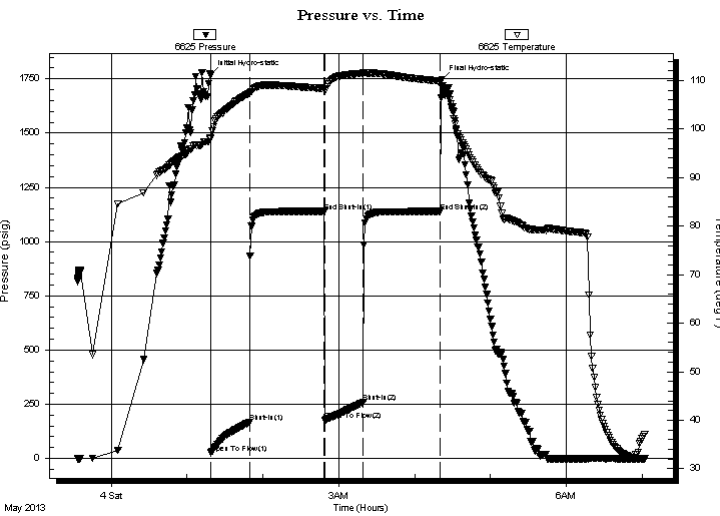
4-12s-17w Ellis,KS
Bemis I #9
 Job Ticket: 53659 **DST#: 6**
 Test Start: 2013.05.03 @ 23:33:22

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 01:18:52
 Tester: Jeff Brown
 Time Test Ended: 07:16:52
 Unit No: 67
 Interval: **3545.00 ft (KB) To 3559.00 ft (KB) (TVD)**
 Reference Elevations: 2043.00 ft (KB)
 Total Depth: 3559.00 ft (KB) (TVD)
 2032.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 11.00 ft

Serial #: 6625 Outside
 Press @ Run Depth: 260.02 psig @ 3546.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.03 End Date: 2013.05.04 Last Calib.: 2013.05.04
 Start Time: 23:33:23 End Time: 07:01:52 Time On Btm: 2013.05.04 @ 01:18:22
 Time Off Btm: 2013.05.04 @ 04:21:22

TEST COMMENT: IFP=Good blow BOB in 6 min
 ISI=Weak surface blow back
 FFP=Good blow BOB in 8 1/2 min
 FSI=Weak surface blow back built to 1 1/2 in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1768.35	98.13	Initial Hydro-static
1	25.50	98.09	Open To Flow (1)
31	167.73	107.38	Shut-In(1)
90	1139.51	108.38	End Shut-In(1)
91	177.05	107.84	Open To Flow (2)
121	260.02	111.54	Shut-In(2)
182	1139.19	109.91	End Shut-In(2)
183	1747.06	108.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCGM 10%G 20%O 70%M	0.30
203.00	MCGO 10%G 20%M 70%O	1.00
419.00	GASSY OIL 20%G 80%O	5.88
0.00	220-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 Corp
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Clayton Erickson

4-12s-17w Ellis, KS
Bemis I #9
Job Ticket: 53659 **DST#: 6**
Test Start: 2013.05.03 @ 23:33:22

Tool Information

Drill Pipe:	Length: 3267.00 ft	Diameter: 3.80 inches	Volume: 45.83 bbl	Tool Weight:	2200.00 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: 263.00 ft	Diameter: 2.25 inches	Volume: 1.29 bbl	Weight to Pull Loose:	79000.00 lb
			<u>Total Volume: 47.12 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	69000.00 lb
Depth to Top Packer:	3545.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	42.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3518.00	
Shut In Tool	5.00			3523.00	
Hydraulic tool	5.00			3528.00	
Jars	5.00			3533.00	
Safety Joint	3.00			3536.00	
Packer	4.00			3540.00	28.00 Bottom Of Top Packer
Packer	5.00			3545.00	
Stubb	1.00			3546.00	
Recorder	0.00	6625	Outside	3546.00	
Recorder	0.00	8679	Inside	3546.00	
Perforations	10.00			3556.00	
Bullnose	3.00			3559.00	14.00 Bottom Packers & Anchor

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Corp

4-12s-17w Ellis,KS

250 N Water Ste 300
Wichita KS 67202-1216

Bemis I #9

Job Ticket: 53659

DST#: 6

ATTN: Clayton Erickson

Test Start: 2013.05.03 @ 23:33:22

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	OCGM 10%G 20%O 70%M	0.295
203.00	MCGO 10%G 20%M 70%O	0.998
419.00	GASSY OIL 20%G 80%O	5.877
0.00	220-GIP	0.000

Total Length: 682.00 ft

Total Volume: 7.170 bbl

Num Fluid Samples: 0

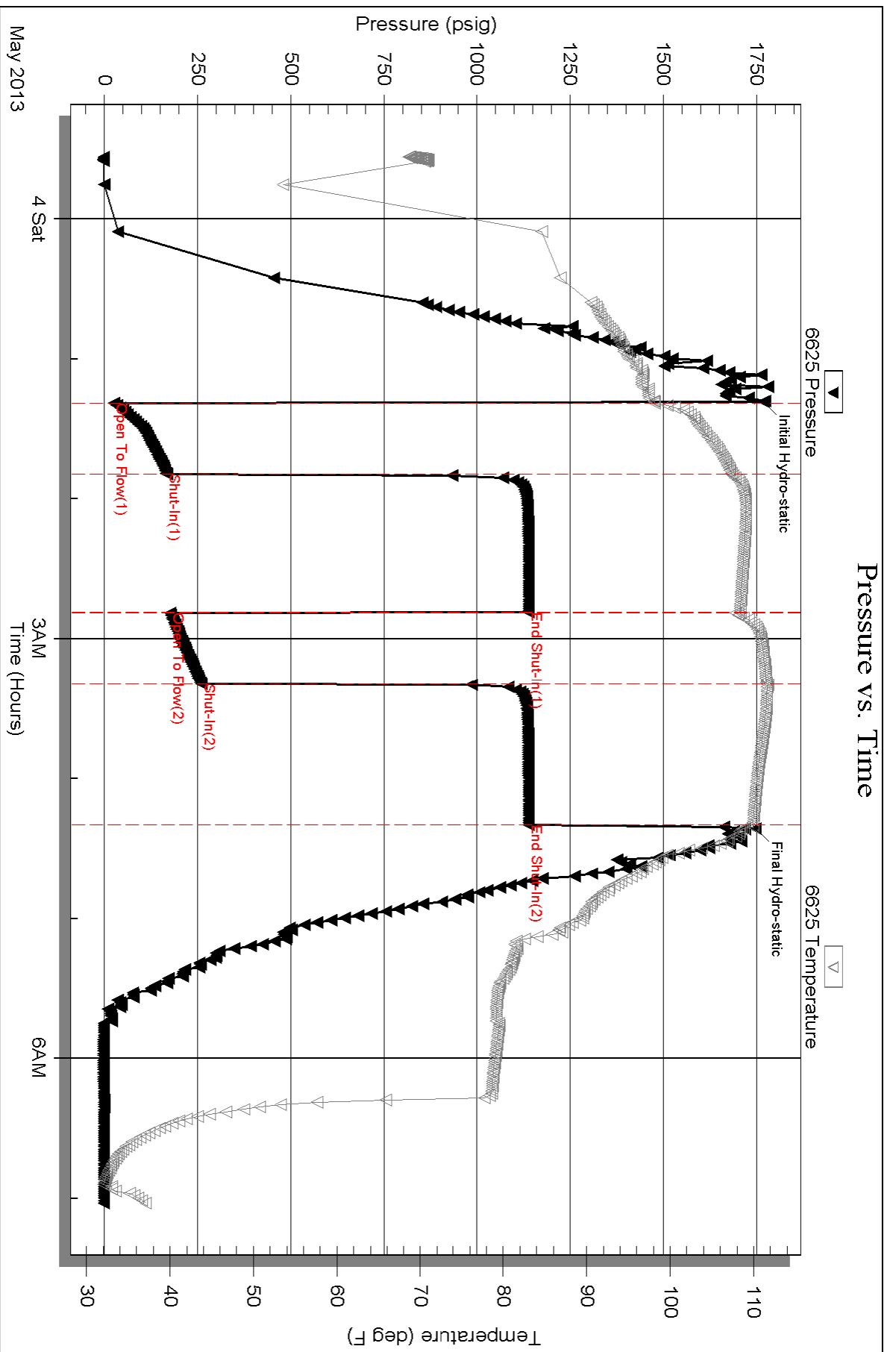
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



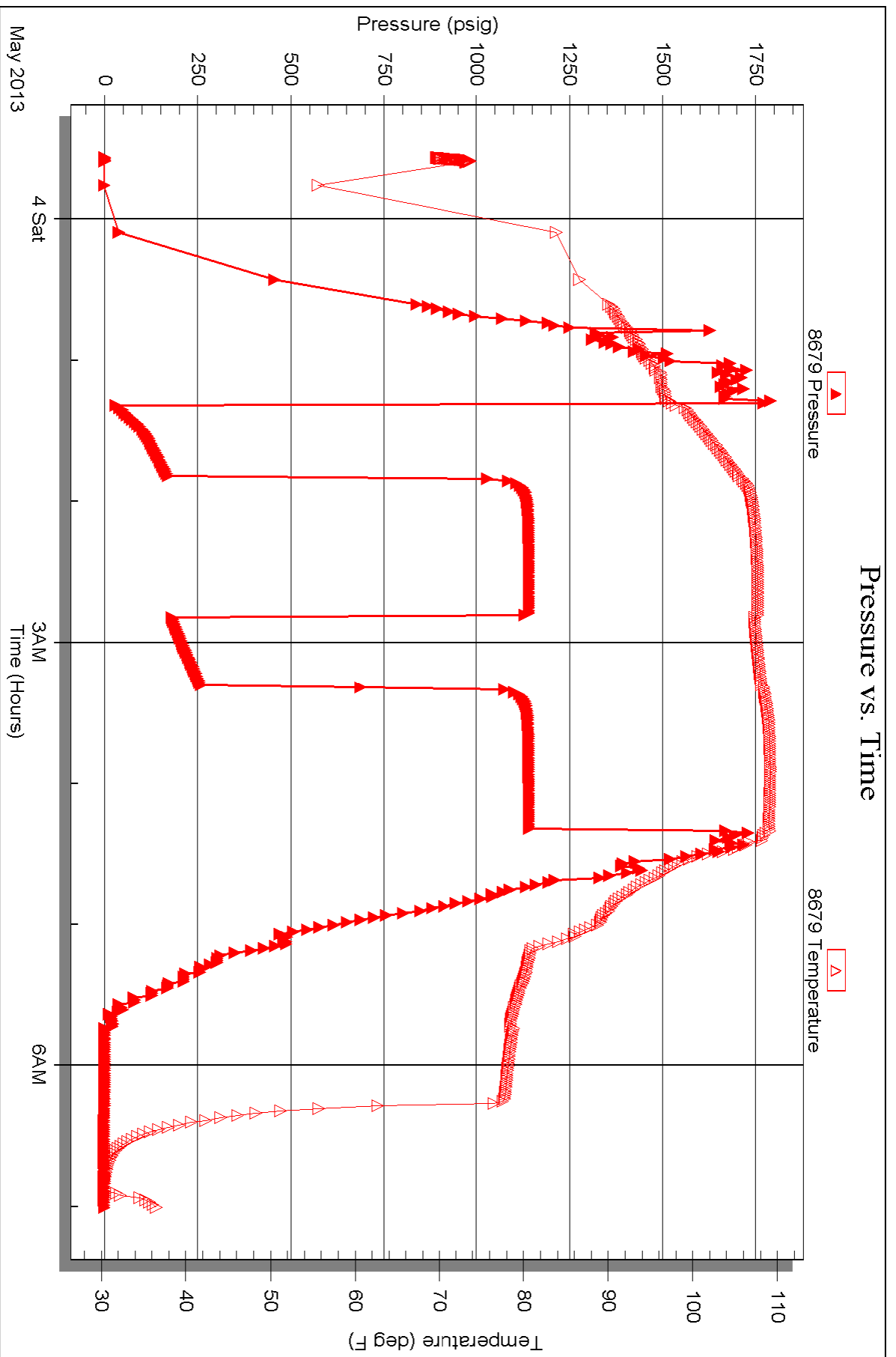
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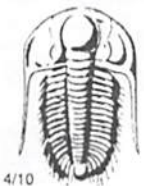
Inside

Murfin Drilling Corp

Bennis I #9

DST Test Number: 6





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53654

Well Name & No. Bemis I-A9 Test No. 1 Date 4-30-13
 Company Murfin Drilling Company INC Elevation 2043 KB 2032 GL
 Address 250 N Water Ste 300 Wichita KS 67202 + 1216
 Co. Rep / Geo. Clayton Erickson Rig Murfin #21
 Location: Sec. 4 Twp. 12S Rge. 17W Co. ELLIS State KS

Interval Tested 3192 - 3283 Zone Tested Toronto, LKC-A-B
 Anchor Length 91 Drill Pipe Run 2983 2921 Mud Wt. 9.2
 Top Packer Depth 3187 Drill Collars Run 204 263 Vis 53
 Bottom Packer Depth 3192 Wt. Pipe Run 0 WL 7.6
 Total Depth 3283 Chlorides 3800 ppm System LCM 2

Blow Description FF-Weak Blow Built To 1 1/4 IN
IST-Dead NO Blow Back
FF-Fair Blow Built To 6 3/4 IN
IST-Dead NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>SOCGM</u>	<u>3</u>	<u>5</u>		<u>92</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60 BHT 105 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1664</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>9:46</u>
(B) First Initial Flow <u>51</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:09</u>
(C) First Final Flow <u>66</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:49</u>
(D) Initial Shut-In <u>119</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>15:49</u>
(E) Second Initial Flow <u>61</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>17:26</u>
(F) Second Final Flow <u>71</u>	<input checked="" type="checkbox"/> Mileage <u>36 RT</u> 55.80	Comments _____
(G) Final Shut-In <u>114</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1587</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

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

Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1530.80

Sub Total 1530.80

Approved By _____ Our Representative Jeff Brown

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53655

Well Name & No. Bemis I-#9 Test No. 2 Date 5-1-13
 Company Murfin Drilling company INC Elevation 2043 KB 2032 GL
 Address 250 N Water STE 300 Wichita KS 67202 +1216
 Co. Rep / Geo. CLAYTON ERICKSON Rig MURFIN #21
 Location: Sec. 4 Twp. 12S Rge. 17W Co. ELLIS State KS

Interval Tested 3274-3331 Zone Tested LKC-D-E-F
 Anchor Length 57 Drill Pipe Run 3014 Mud Wt. 9.2
 Top Packer Depth 3269 Drill Collars Run 263 Vis 53
 Bottom Packer Depth 3274 Wt. Pipe Run 0 WL 7.40
 Total Depth 3331 Chlorides 3800 ppm System LCM 2

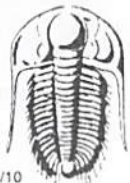
Blow Description FFP-GOOD Blow BOB IN 18 min
IST-Dead No Blow Back
FFP-Strong Blow BOB IN 3 min
IST-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>HOC GWM</u>	<u>20</u>	<u>40</u>	<u>5</u>	<u>35</u>
	<u>120 GIP</u>				

Rec Total 60 BHT 104 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1683</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>1:33</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1:50</u>
(C) First Final Flow <u>33</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>3:44</u>
(D) Initial Shut-In <u>105</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>6:44</u>
(E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>8:35</u>
(F) Second Final Flow <u>39</u>	<input checked="" type="checkbox"/> Mileage 55.80	Comments _____
(G) Final Shut-In <u>103</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1638</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1530.80</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1530.80</u>	

Approved By _____ Our Representative JEFF BROWN
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53656

Well Name & No. Bemis I- #9 Test No. 3 Date 5-2-13
 Company Murfin Drilling Company INC Elevation 2043 KB 2032 GL
 Address 250 N Water Ste 300 Wichita KS 67202 + 1216
 Co. Rep / Geo. Clayton Erickson Rig Murfin #21
 Location: Sec. 4 Twp. 12 S Rge. 17 W Co. ELLIS State KS

Interval Tested 3352-3457 Zone Tested LKC-H-I-J-K
 Anchor Length 105 Drill Pipe Run 3078 Mud Wt. 9.2
 Top Packer Depth 3347 Drill Collars Run 263 Vis 54
 Bottom Packer Depth 3352 Wt. Pipe Run 0 WL 7.6
 Total Depth 3457 Chlorides 3700 ppm System LCM 2

Blow Description IP-Weak Blow Built To 1 1/4 IN
BF-Dead No Blow Back
FP-Dead No Blow
FST-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud with oil spots</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 Total 10 BHT 99 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1657 Test 1150 T-On Location 1:45
 (B) First Initial Flow 21 Jars 250 T-Started 2:04
 (C) First Final Flow 23 Safety Joint 75 T-Open 3:48
 (D) Initial Shut-In 140 Circ Sub _____ T-Pulled 6:48
 (E) Second Initial Flow 23 Hourly Standby _____ T-Out 8:38
 (F) Second Final Flow 24 Mileage 55.80 Comments _____
 (G) Final Shut-In 63 Sampler _____
 (H) Final Hydrostatic 1591 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1530.80
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1530.80

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

Approved By _____ Our Representative Jeff Brown

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53657

Well Name & No. Bemis I-49 Test No. 4 Date 5-2-13
 Company Murfin Drilling Company INC Elevation 2043 KB 2032 GL
 Address 250 N Water Ste 300 Wichita KS 67202 + 1214
 Co. Rep / Geo. Clayton Erickson Rig Murfin #21
 Location: Sec. 4 Twp. 12S Rge. 17W Co. ELLIS State KS

Interval Tested 3453 - 3508 Zone Tested ArBuckle
 Anchor Length 55 Drill Pipe Run 3173 Mud Wt. 9.2
 Top Packer Depth 3448 Drill Collars Run 243 Vis 52
 Bottom Packer Depth 3453 Wt. Pipe Run 0 WL 7.4
 Total Depth 3508 Chlorides 3800 ppm System LCM 2

Blow Description FP-Weak Blow Built To 1 1/2 IN
IS-Dead No Blow Back
FP-Weak Surface Blow Died Out IN 48 min
IS-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>mud with A SCUM of oil</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 102 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1707</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>16:58</u>
(B) First Initial Flow <u>34</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:23</u>
(C) First Final Flow <u>44</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:25</u>
(D) Initial Shut-In <u>78</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>22:55</u>
(E) Second Initial Flow <u>45</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>00:48</u>
(F) Second Final Flow <u>49</u>	<input checked="" type="checkbox"/> Mileage <u>55.80</u>	Comments _____
(G) Final Shut-In <u>73</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>11661</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1530.80</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1530.80</u>	

Approved By _____ Our Representative Jeff Brown

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53658

Well Name & No. Bemis I-#9 Test No. 5 Date 5-3-13
 Company Murfin Drilling Company INC Elevation 2043 KB 2032 GL
 Address 250 N Water STE 300 Wichita KS 67202 + 1216
 Co. Rep / Geo. Clayton Erickson Rig Murfin #21
 Location: Sec. 4 Twp. 12s Rge. 17W Co. ELLIS State KS

Interval Tested 3508 - 3518 Zone Tested Ar Buckle
 Anchor Length 10 Drill Pipe Run 3236 Mud Wt. 9.2
 Top Packer Depth 3503 Drill Collars Run 263 Vis 53
 Bottom Packer Depth 3508 Wt. Pipe Run 0 WL 7.6
 Total Depth 3518 Chlorides 4000 ppm System LCM 2

Blow Description 1st GOOD Blow BOB IN 11 1/2 min
1st Weak Surface Blow Back
2nd Fair Blow Built To 8 IN
3rd Weak Surface Blow Back Built To 1/4 IN

Rec	Feet of	%gas	%oil	%water	%mud
<u>263</u>	<u>OC MW</u>	<u>10</u>	<u>75</u>	<u>15</u>	<u>15</u>
<u>63</u>	<u>GOC MW</u>	<u>10</u>	<u>40</u>	<u>35</u>	<u>35</u>
<u>10</u>	<u>OC MW MCWO</u>	<u>60</u>	<u>25</u>	<u>15</u>	<u>15</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

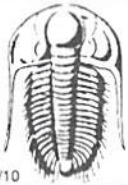
Rec Total 336 BHT 110 Gravity _____ API RW 27.2 @ 71.4° F Chlorides 25,500 ppm

(A) Initial Hydrostatic 1729 Test 1150 T-On Location 5:39
 (B) First Initial Flow 24 Jars 250 T-Started 5:52
 (C) First Final Flow 133 Safety Joint 75 T-Open 7:41
 (D) Initial Shut-In 160 Circ Sub T-Pulled 11:41
 (E) Second Initial Flow 135 Hourly Standby T-Out 13:55
 (F) Second Final Flow 164 Mileage 55.80
 (G) Final Shut-In 176 Sampler
 (H) Final Hydrostatic 1650 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1530.80
 Total 1530.80
 MP/DST Disc't _____

Approved By _____ Our Representative Jeff Brown

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. 53659

Well Name & No. Bemis I-#9 Test No. 6 Date 5-3-13
 Company Murfin Drilling Company INC Elevation 2043 KB 2032 GL
 Address 250 N Water Ste 300 Wichita KS 67202 + 1214
 Co. Rep / Geo. Clayton Erickson Rig Murfin # 21
 Location: Sec. 4 Twp. 12S Rge. 17W Co. ELLIS State KS

Interval Tested 3545 - 3559 Zone Tested ArBuckle
 Anchor Length 14 Drill Pipe Run 3267 Mud Wt. 9.2
 Top Packer Depth 3540 Drill Collars Run 263 Vis 53
 Bottom Packer Depth 3545 Wt. Pipe Run 0 WL 7.4
 Total Depth 3559 Chlorides 4000 ppm System LCM 2

Blow Description IP-GOOD Blow BOB IN 10 min
IS-Weak Surface Blow Back
FR-GOOD Blow BOB IN 8 1/2 IN
IS-Weak Surface Blow Back Built TO 1 1/2 IN

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>OCGM</u>	<u>10</u>	<u>20</u>	<u>70</u>	
<u>203</u>	<u>mcGO</u>	<u>10</u>	<u>70</u>	<u>20</u>	
<u>419</u>	<u>Gassy Oil</u>	<u>20</u>	<u>80</u>		
	<u>220-GIP</u>				

Rec Total 682 BHT 110 Gravity 29 API RW @ ° F Chlorides ppm
 (A) Initial Hydrostatic 1768 Test 1150 T-On Location 23:19
 (B) First Initial Flow 26 Jars 250 T-Started 23:33
 (C) First Final Flow 168 Safety Joint 75 T-Open 1:20
 (D) Initial Shut-In 1140 Circ Sub T-Pulled 4:20
 (E) Second Initial Flow 177 Hourly Standby T-Out 7:14
 (F) Second Final Flow 260 Mileage 55.80 Comments
 (G) Final Shut-In 1139 Sampler
 (H) Final Hydrostatic 1747 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1530.80
 Accessibility MP/DST Disc't
 Sub Total 1530.80

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

Approved By _____ Our Representative Jeff Brown

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PO Box 93999
Southlake, TX 76092

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

*acct.
Prod - LIT*

INVOICE

Invoice Number: 135921

Invoice Date: Apr 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	54101	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Russell	Apr 26, 2013	5/26/13

Quantity	Item	Description	Unit Price	Amount
		Bemis 1 #9		
160.00	MAT	Class A Common	17.90	2,864.00
3.00	MAT	Gel	23.40	70.20
6.00	MAT	Chloride	64.00	384.00
173.51	SER	Cubic Feet	2.48	430.31
118.65	SER	Ton Mileage	2.60	308.49
1.00	SER	Surface	1,512.25	1,512.25
15.00	SER	Pump Truck Mileage	7.70	115.50
15.00	SER	Light Vehicle Mileage	4.40	66.00
1.00	CEMENTER	Robert Yakubovich		
1.00	CEMENTER	Bobby Smith		
1.00	EQUIP OPER	Kevin Rupp		
1.00	OPER ASSIST	Danny Sinner		

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF ³⁵⁹

\$ 2,012.76 *ok*

ONLY IF PAID ON OR BEFORE
May 21, 2013

Subtotal	5,750.75
Sales Tax	209.05
Total Invoice Amount	5,959.80
Payment/Credit Applied	
TOTAL	5,959.80

DD

- 2012.76
\$ 3947.04

ALLIED OIL & GAS SERVICES, LLC 054101

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell KS

DATE <u>4-26-13</u>	SEC <u>4</u>	TWP <u>12</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30am</u>	JOB FINISH <u>12:00</u>
LEASE <u>Bemis 1</u>	WELL# <u>9</u>	LOCATION <u>Hays KS SWSE 2N 1/2 E Ninto</u>			COUNTY <u>Ellis</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR Murkin Drilling #21
 TYPE OF JOB surface
 HOLE SIZE 12 1/4 T.D. 223
 CASING SIZE 8 5/8 23" DEPTH 225,70
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 15'
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT 13 1/4 bbl

OWNER

CEMENT

AMOUNT ORDERED 160 com 3% cc 2.7 gel

EQUIPMENT
 PUMP TRUCK CEMENTER Robert Y Bobb
 # 409 HELPER Kevin R
 BULK TRUCK
 # 410 DRIVER Danny S
 BULK TRUCK
 # DRIVER

COMMON	<u>160</u>	@ <u>17.90</u>	<u>2864.00</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>23.40</u>	<u>70.20</u>
CHLORIDE	<u>6</u>	@ <u>64.00</u>	<u>384.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
	<u>173.51</u>	@	<u>430.31</u>
HANDLING	<u>430.31</u>	@ <u>2.48</u>	<u>1067.17</u>
MILEAGE	<u>309.49</u>	@ <u>2.60</u>	<u>804.87</u>
	<u>118.65</u>		
TOTAL			<u>4057.00</u>

REMARKS:

run 5jts of 8 5/8 23" csg. receive circulation
mix 160 com 3% cc 2.7 gel displace with
water 13 1/4 bbl shut in

cement did circulate to surface

Thank you!!

CHARGE TO: Murkin Drilling
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>223</u>		
PUMP TRUCK CHARGE	<u>1512.25</u>		
EXTRA FOOTAGE		@	
MILEAGE <u>15</u> H.V.M.I.		@ <u>7.70</u>	<u>115.50</u>
MANIFOLD		@	
<u>15</u> H.V.M.I.		@ <u>4.40</u>	<u>66.00</u>
		@	
TOTAL			<u>1693.75</u>

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL _____		

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

SALES TAX (if Any) _____
 TOTAL CHARGES 5750.75
 DISCOUNT 1552.70 IF PAID IN 30 DAYS

PRINTED NAME Juan Tinoco

SIGNATURE Juan Tinoco

net \$198.05 4-26-13
before tax



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Accty — ac: WF
 cc: L-1
 cc: L-1

Date: 5/7/2013
 Invoice # 6790
 P.O.#:
 Due Date: 6/6/2013
 Division: Russell

Invoice

USED FOR IC 103
 APPROVED [Signature]

Contact:
 Murfin Drilling Company
Address/Job Location:
 Murfin Drilling Company
 P.O. Box 288
 Russell Ks 67665

Reference:
 BEMIS 1 9

Description of Work:
 PROD LONG STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No	Latch Down Plug & Baffle, 5 1/2"	1	\$243.20	Yes
Common-Class A	200	\$ 2,722.97	Yes	Pump Truck Mileage-Job to Nearest Camp	16	\$173.37	No
Cement Port Collar, 5 1/2"	1	\$ 2,714.29	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	16	\$101.45	No
Gilsonite	1000	\$ 1,628.57	Yes				
5 1/2" Turbolizer	13	\$ 818.63	Yes				
Cement Scratchers Cable Type, 5 1/2"	10	\$ 760.00	Yes				
Bulk Truck Matl-Material Service Charge	228	\$ 495.09	No				
Mud Clear	500	\$ 401.71	Yes				
5 1/2" Basket	1	\$ 373.49	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 332.23	Yes				
Salt (Fine)	18	\$ 272.82	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 12,029.19
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,804.38)

SubTotal for Taxable Items:	\$ 8,727.72
SubTotal for Non-Taxable Items:	\$ 1,497.10
Total:	\$ 10,224.81
Tax:	\$ 549.85

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 10,774.66
Applied Payments:
Balance Due: \$ 10,774.66

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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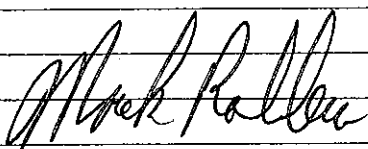
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6790

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5.5-13	4	12	17	Ellis	KS		6:30 p.m.
Lease Bemis I				Well No. 9		Owner E & V into	
Contractor Martin #21				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job Production String				Charge To Martin Drilling			
Hole Size 7 7/8		T.D. 3630		Street			
Csg. 5 1/2 15.5		Depth 3624		City State			
Tbg. Size		Depth		City State			
Tool Port Collar		Depth 1290		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg. 22.20		Shoe Joint 22.20		Cement Amount Ordered 200 am 10% salt + 5 1/2 Gilsomite			
Meas Line		Displace 85 3/4 BCL		500 gal mud clear			
EQUIPMENT				Common 200			
Pumptrk 9	No.	Cementer Craig		Poz. Mix			
		Helper					
Bulktrk	No.	Driver		Gel.			
		Driver					
Bulktrk 14	No.	Driver Clayton		Calcium			
		Driver					
JOB SERVICES & REMARKS				Hulls			
Remarks:				Salt 18			
Rat Hole 30SK				Flowseal			
Mouse Hole 15SK				Kol-Seal 1000 lb			
Centralizers				Mud CLR 48 500 gal			
Baskets				CFL-117 or CD110 CAF 98			
D/V or Port Collar				Sand			
5 1/2 size @ 3624 - Ball @ 3601.80				Handling 228			
Est. Circulation. Pump 500 gal mud clear				Mileage			
10 BCL spacer. Cement Kithole + mousehole.				FLOAT EQUIPMENT			
Cement 5 1/2 with 155SK. Clear lines				Guide Shoe 5 1/2			
Displace Plug. Plug land @ 1500 ft.				Centralizer 13 Turbolizers			
Wild Release Pressure Dry.				Baskets 1			
				AFU Inserts Port Collar			
				Float Shoe 1			
				Latch Down 1			
				10 Scratchers			
				Pumptrk Charge Prod Long String			
				Mileage 16			
				Tax			
				Discount			
				Total Charge			
X Signature							