



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1130497
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: _____



1130497

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

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

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

April 01, 2013

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

Re: ACO1
API 15-063-22067-00-00
Roemer Bell 1-1
SE/4 Sec.01-15S-30W
Gove 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 Roemer-Bell #1-1 1625' FSL 700' FEL Sec. 1-T15S-R30W 2633' KB							MDCI Ziegenbalg #2 70'N of E/2 E/2 NW Sec. 1-T15S-R30W 2628' KB	
Formation	Sample Top	Datum	Ref	Log tops	Datum	Ref	Log Top	Datum
Anhydrite	2045	+588	+4	2046	+587	+3	2044	+584
B/Anhydrite	2074	+559	+5	2074	+559	+5	2074	+554
Topeka	3428	-795	-1	3428	-795	-1	3422	-794
Heebner	3655	-1022	Flat	3653	-1020	+2	3650	-1022
Lansing	3690	-1057	+3	3691	-1058	+2	3688	-1060
Stark	3939	-1306	-1	3932	-1299	+6	3933	-1305
Pawnee	4136	-1503	-3	4122	-1489	+11	4128	-1500
Ft. Scott	4193	-1560	-1	4180	-1547	+12	4187	-1559
Johnson	4261	-1628	+2	4251	-1618	+12	4258	-1630
Mississippi	4289	-1656	+1	4273	-1640	+17	4285	-1657
Mississippi Dol.	4298	-1665	+25	4294	-1661	+29	4318	-1690
RTD	4398						4351	
LTD				4404			4352	

Robert D. Hendrix
Petroleum Geologist

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

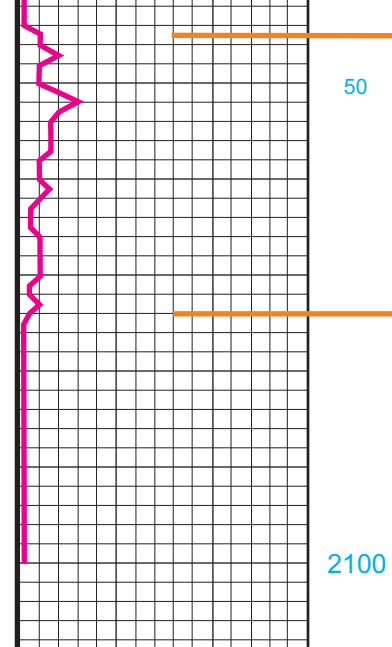
COMPANY Murfriin Drilling Co. Inc.
LEASE Roemer-Bell #1-1
FIELD Wildcat
LOCATION 1625' fs1 & 700' fe1
SEC 1 TWP 15 S RGE 30 W
COUNTY Gove STATE Kansas
CONTRACTOR Murfriin Drilling Co Inc Rkp 2
SPUD 12/6/2012 COMP 12/14/2012
RTD 4398 LTD 4404
NWD UP 3030 TYPE MUD Chemical
SAMPLER(S) SAVERED FROM 3330 TO TD
DRILLING TIME KEPT FROM 3330 TO TD
SAMPLES EXAMINED FROM 3330 TO TD
GEOLOGICAL SUPERVISION FROM 3409'
GEOLOGIST ON WELL Robert D. Hendrix

FORMATION TOPS

Anhydrite	2044 (-589)	2145 (-588)
Base Anhydrite	2074 (-599)	2074 (-589)
70peka	3428 (-790)	3423 (-790)
Lansing	3688 (-1057)	3650 (-1017)
Heebner	3688 (-1057)	3688 (-1057)
Stark	3930 (-1297)	3930 (-1297)
Pawnee	4180 (-1547)	4175 (-1548)
Ft Scott	4273 (-1640)	4273 (-1640)
Mississippian		4268 (-1635)

ELECTRIC LOG

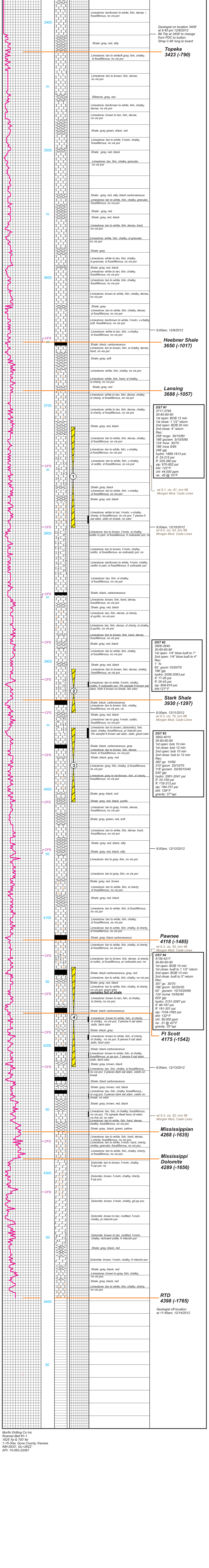
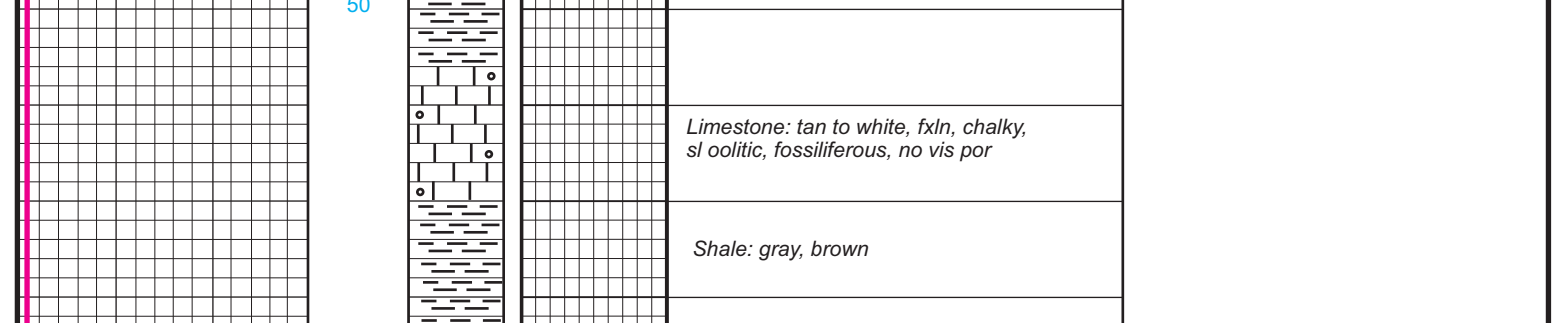
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REMARKS: *The multiple positive DST's it is strongly recommended that production casing be set on this well.*

Robert D. Hendrix

LEGEND





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N. Water ste 300
Wichita, KS 67202

ATTN: Robert Hendrix

Roemer Bell #1-1

1-15s-30w Gove,KS

Start Date: 2012.12.09 @ 23:38:15

End Date: 2012.12.10 @ 08:38:45

Job Ticket #: 50116 DST #: 1

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

Printed: 2012.12.17 @ 11:17:29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company
250 N. Water ste 300
Wichita, KS 67202
ATTN: Robert Hendrix

1-15s-30w Gove,KS
Roemer Bell #1-1
Job Ticket: 50116 **DST#: 1**
Test Start: 2012.12.09 @ 23:38:15

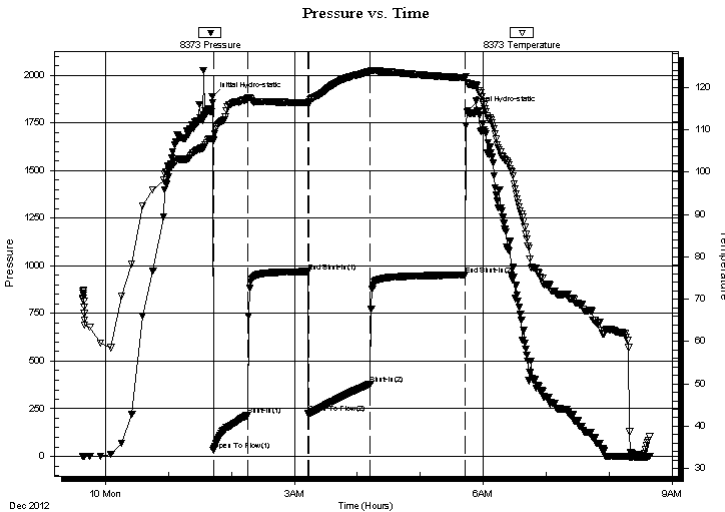
GENERAL INFORMATION:

Formation: **Lansing B-F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:42:45
Time Test Ended: 08:38:45
Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 60
Interval: **3717.00 ft (KB) To 3795.00 ft (KB) (TVD)**
Total Depth: 3795.00 ft (KB) (TVD)
Reference Elevations: 2633.00 ft (KB)
Hole Diameter: 7.88 inches Hole Condition: Good
KB to GR/CF: 11.00 ft
2622.00 ft (CF)

Serial #: 8373 Inside
Press @ Run Depth: 380.29 psig @ 3718.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.12.09 End Date: 2012.12.10 Last Calib.: 2012.12.10
Start Time: 23:38:20 End Time: 08:38:45 Time On Btm: 2012.12.10 @ 01:41:45
Time Off Btm: 2012.12.10 @ 05:45:15

TEST COMMENT: IF: BOB in 12 min.
IS: Surface blow built to 1 1/2"
FF: BOB in 20 min.
FS: Surface blow built to 4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1889.86	107.94	Initial Hydro-static
1	33.28	107.55	Open To Flow (1)
34	215.90	117.24	Shut-In(1)
91	970.14	116.40	End Shut-In(1)
92	225.94	116.27	Open To Flow (2)
151	380.29	123.83	Shut-In(2)
241	952.64	122.31	End Shut-In(2)
244	1813.56	120.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	mcw 95%w 5%m	0.91
124.00	mcw 70%w 30%m	1.31
186.00	gocw m 5%g 10%o 5%w 80%m	2.61
258.00	mcgo 10%g 60%o 30%m	3.62
0.00	248 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

1-15s-30w Gove,KS

250 N. Water ste 300
Wichita, KS 67202

Roemer Bell #1-1

Job Ticket: 50116

DST#: 1

ATTN: Robert Hendrix

Test Start: 2012.12.09 @ 23:38:15

Tool Information

Drill Pipe:	Length: 3474.00 ft	Diameter: 3.80 inches	Volume: 48.73 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 49.88 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3717.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	78.00 ft				
Tool Length:	106.00 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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Stubb	1.00			3690.00	
Shut In Tool	5.00			3695.00	
Hydraulic tool	5.00			3700.00	
Jars	5.00			3705.00	
Safety Joint	3.00			3708.00	
Packer	5.00			3713.00	28.00 Bottom Of Top Packer
Packer	4.00			3717.00	
Stubb	1.00			3718.00	
Recorder	0.00	8373	Inside	3718.00	
Recorder	0.00	8356	Outside	3718.00	
Perforations	7.00			3725.00	
Change Over Sub	1.00			3726.00	
Drill Pipe	63.00			3789.00	
Change Over Sub	1.00			3790.00	
Bullnose	5.00			3795.00	78.00 Bottom Packers & Anchor

Total Tool Length: 106.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

1-15s-30w Gove,KS

250 N. Water ste 300
Wichita, KS 67202

Roemer Bell #1-1

Job Ticket: 50116

DST#: 1

ATTN: Robert Hendrix

Test Start: 2012.12.09 @ 23:38:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

44000 ppm

Viscosity: 81.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	mcw 95%w 5%m	0.915
124.00	mcw 70%w 30%m	1.311
186.00	gocw m 5%g 10%o 5%w 80%m	2.609
258.00	mcgo 10%g 60%o 30%m	3.619
0.00	248 GIP	0.000

Total Length: 754.00 ft Total Volume: 8.454 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .45@10=44000

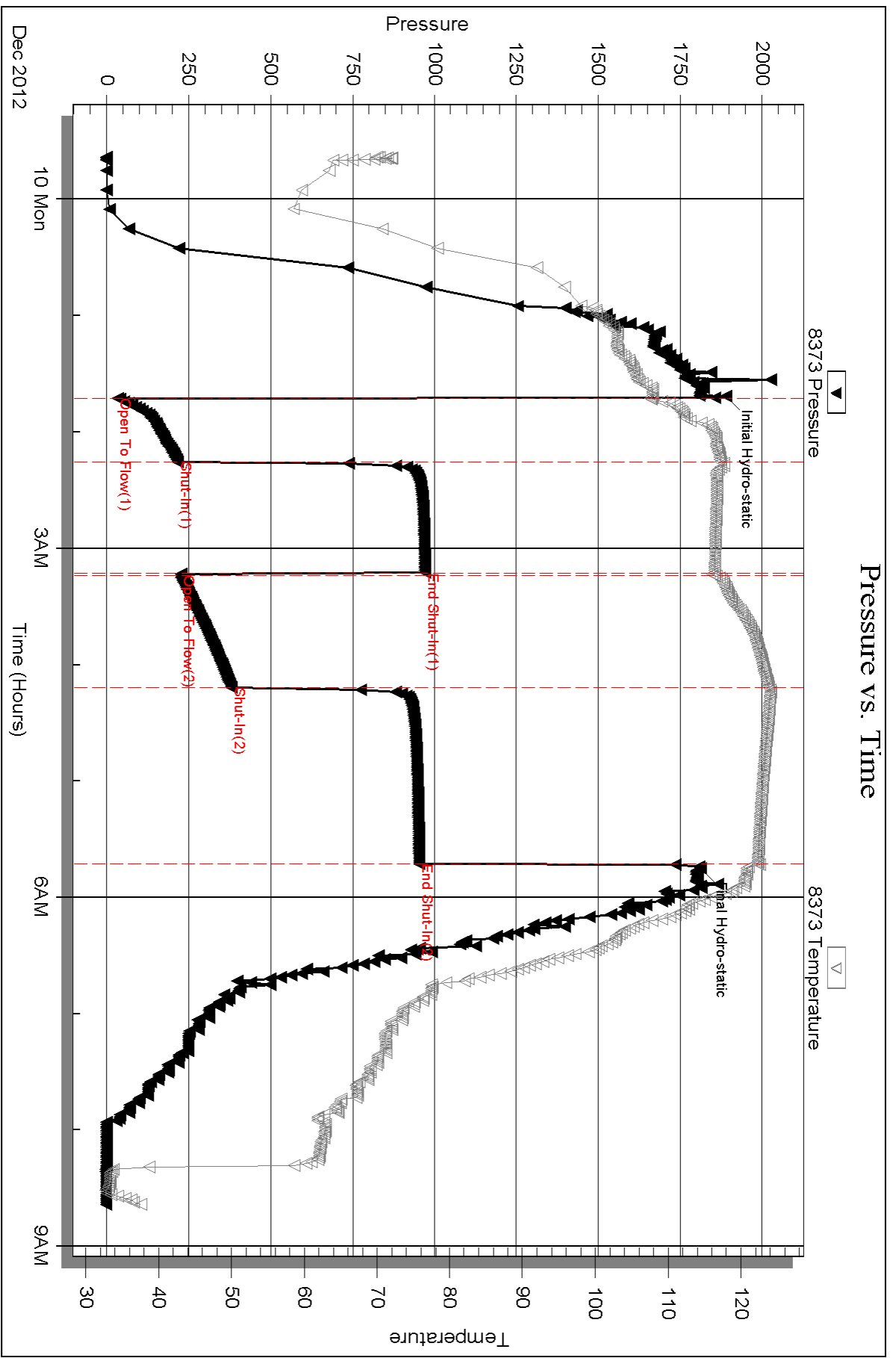
Serial #: 8373

Inside

Murfin Drilling Company

Roerner Bell #1-1

DST Test Number: 1

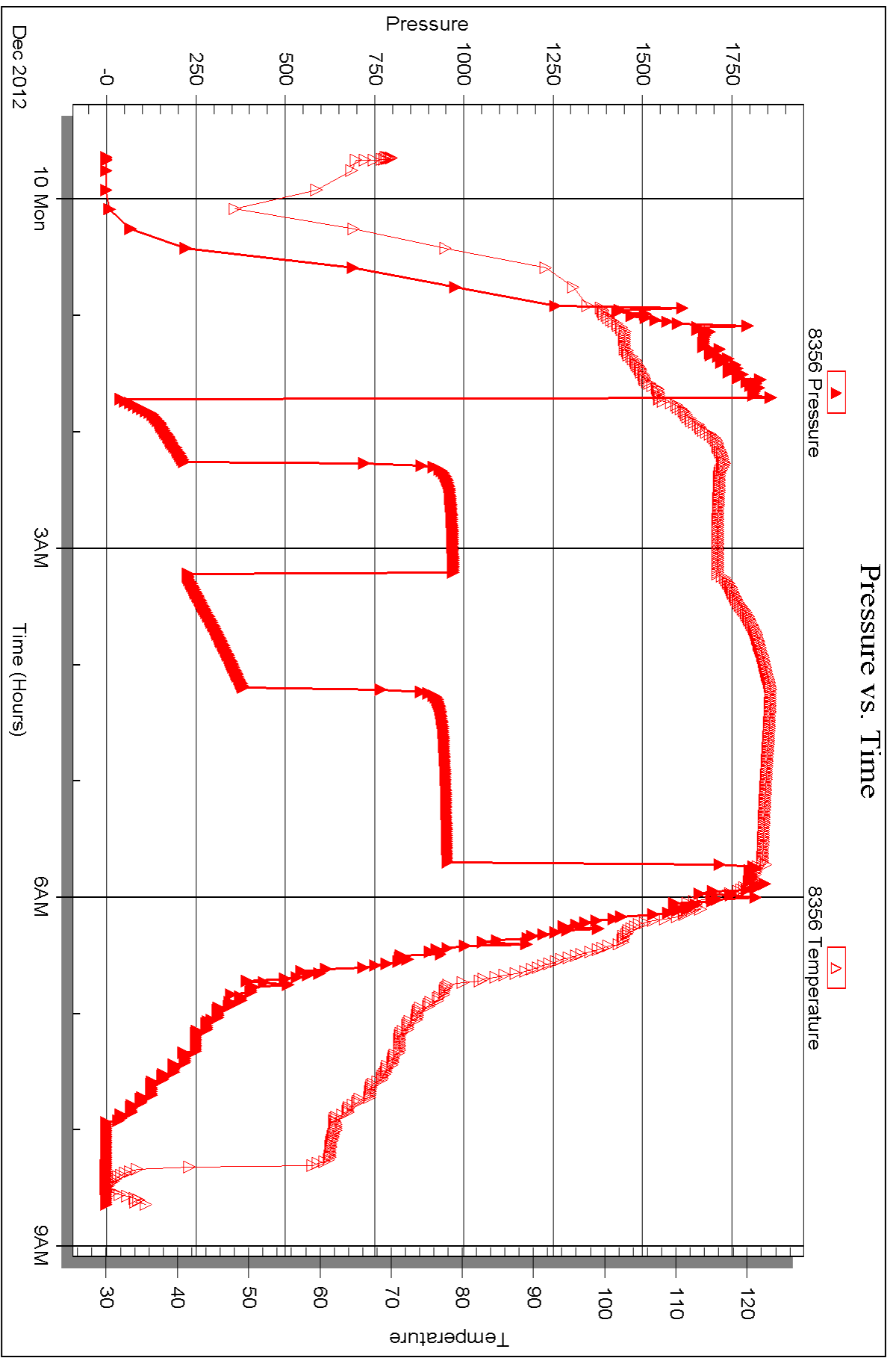


Serial #: 8356

Outside Murfin Drilling Company

Roerner Bell #1-1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N. Water ste 300
Wichita, KS 67202

ATTN: Robert Hendrix

Roemer Bell #1-1

1-15s-30w Gove,KS

Start Date: 2012.12.11 @ 00:58:43

End Date: 2012.12.11 @ 08:44:37

Job Ticket #: 50117 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.17 @ 11:16:33



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

1-15s-30w Gove, KS

250 N. Water ste 300
Wichita, KS 67202

Roemer Bell #1-1

ATTN: Robert Hendrix

Job Ticket: 50117

DST#: 2

Test Start: 2012.12.11 @ 00:58:43

GENERAL INFORMATION:

Formation: **Lansing J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:32:38

Time Test Ended: 08:44:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 3906.00 ft (KB) To 3940.00 ft (KB) (TVD)

Reference Elevations: 2633.00 ft (KB)

Total Depth: 3940.00 ft (KB) (TVD)

2622.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8373 Inside

Press @ Run Depth: 43.57 psig @ 3907.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.11

End Date:

2012.12.11

Last Calib.: 2012.12.11

Start Time: 00:58:43

End Time:

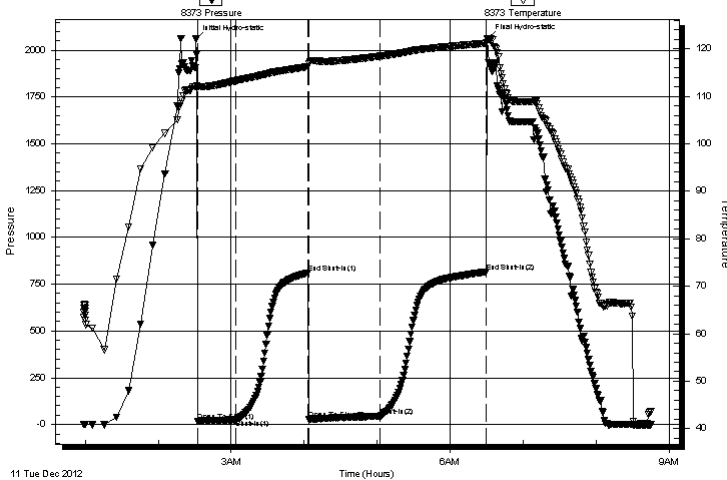
08:44:37

Time On Btm: 2012.12.11 @ 02:31:08

Time Off Btm: 2012.12.11 @ 06:30:37

TEST COMMENT: IF: 1/4" blow built to 1"
IS: No return.
FF: 1/4" blow built to 4"
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2059.03	112.07	Initial Hydro-static
2	17.88	111.96	Open To Flow (1)
33	26.00	113.26	Shut-In(1)
92	809.62	116.21	End Shut-In(1)
93	25.81	116.87	Open To Flow (2)
151	43.57	118.42	Shut-In(2)
239	816.40	121.18	End Shut-In(2)
240	2063.00	122.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	gocm 10%g 20%o 70%m	0.30
1.00	free oil 100%o	0.00
0.00	186 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

1-15s-30w Gove, KS

250 N. Water ste 300
Wichita, KS 67202

Roemer Bell #1-1

Job Ticket: 50117

DST#: 2

ATTN: Robert Hendrix

Test Start: 2012.12.11 @ 00:58:43

GENERAL INFORMATION:

Formation: **Lansing J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:32:38

Time Test Ended: 08:44:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 3906.00 ft (KB) To 3940.00 ft (KB) (TVD)

Reference Elevations: 2633.00 ft (KB)

Total Depth: 3940.00 ft (KB) (TVD)

2622.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8356 Outside

Press @ Run Depth: psig @ 3907.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.11

End Date:

2012.12.11

Last Calib.:

2012.12.11

Start Time: 00:58:38

End Time:

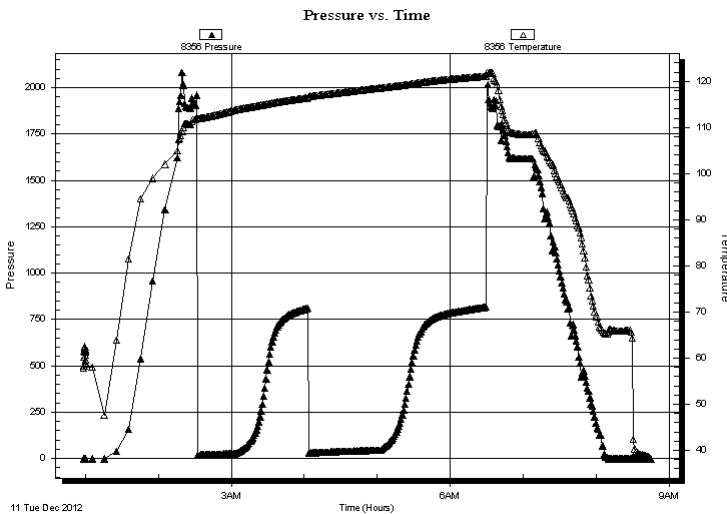
08:44:32

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 1"
IS: No return.
FF: 1/4" blow built to 4"
FS: No return.

PRESSURE SUMMARY



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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
62.00	gocm 10%g 20%o 70%m	0.30
1.00	free oil 100%o	0.00
0.00	186 GIP	0.00

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

1-15s-30w Gove,KS

250 N. Water ste 300
Wichita, KS 67202

Roemer Bell #1-1

Job Ticket: 50117

DST#: 2

ATTN: Robert Hendrix

Test Start: 2012.12.11 @ 00:58:43

Tool Information

Drill Pipe:	Length: 3665.00 ft	Diameter: 3.80 inches	Volume: 51.41 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 52.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3906.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	62.00 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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Stubb	1.00			3879.00	
Shut In Tool	5.00			3884.00	
Hydraulic tool	5.00			3889.00	
Jars	5.00			3894.00	
Safety Joint	3.00			3897.00	
Packer	5.00			3902.00	28.00 Bottom Of Top Packer
Packer	4.00			3906.00	
Stubb	1.00			3907.00	
Recorder	0.00	8373	Inside	3907.00	
Recorder	0.00	8356	Outside	3907.00	
Perforations	28.00			3935.00	
Bullnose	5.00			3940.00	34.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

1-15s-30w Gove,KS

250 N. Water ste 300
Wichita, KS 67202

Roemer Bell #1-1

Job Ticket: 50117

DST#: 2

ATTN: Robert Hendrix

Test Start: 2012.12.11 @ 00:58:43

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 93.00 sec/qt
Water Loss: 5.19 in³
Resistivity: 0.00 ohm.m
Salinity: 5400.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 0 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	gocm 10%g 20%o 70%m	0.305
1.00	free oil 100%o	0.005
0.00	186 GIP	0.000

Total Length: 63.00 ft Total Volume: 0.310 bbl

Num Fluid Samples: 0

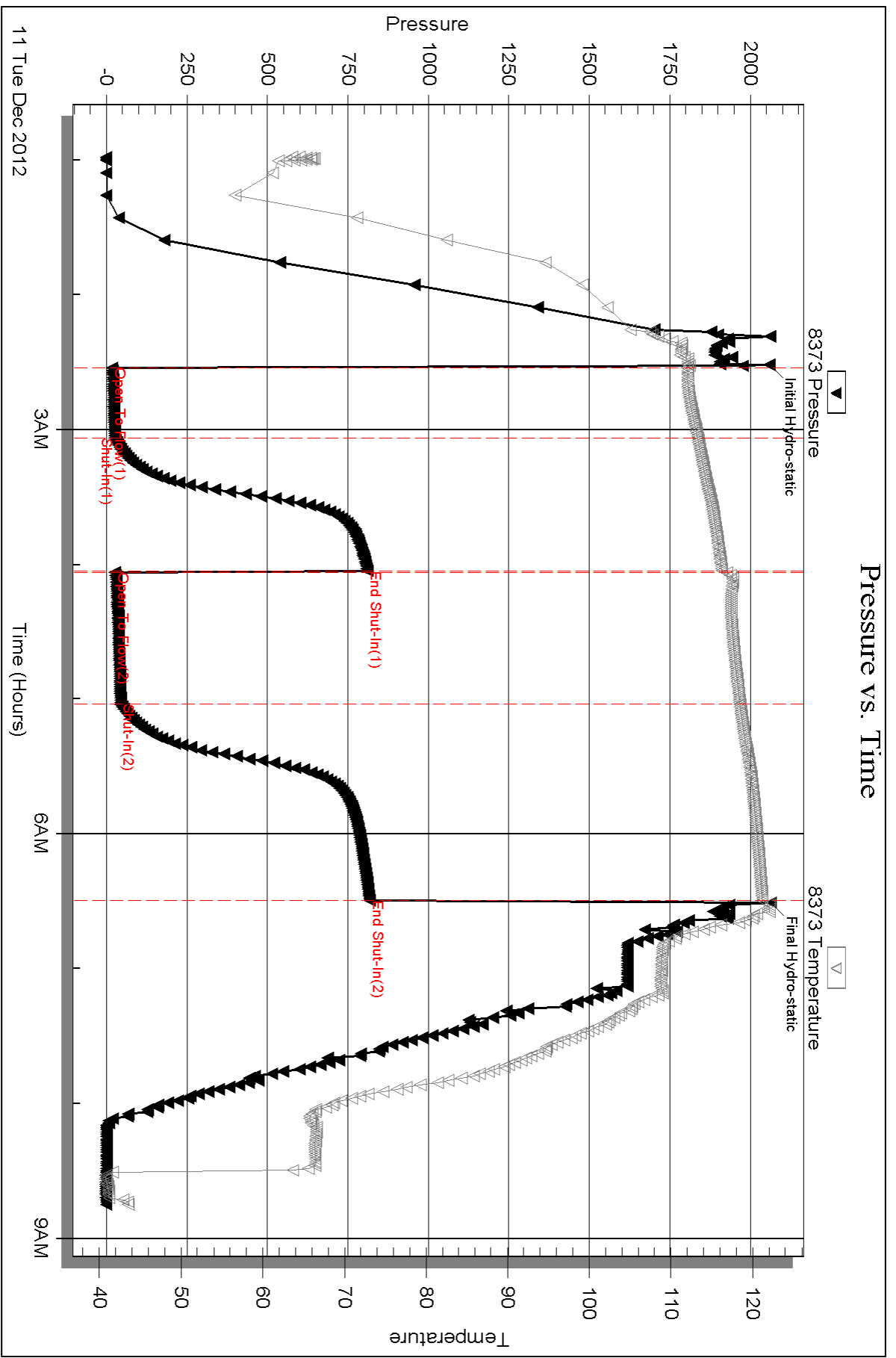
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

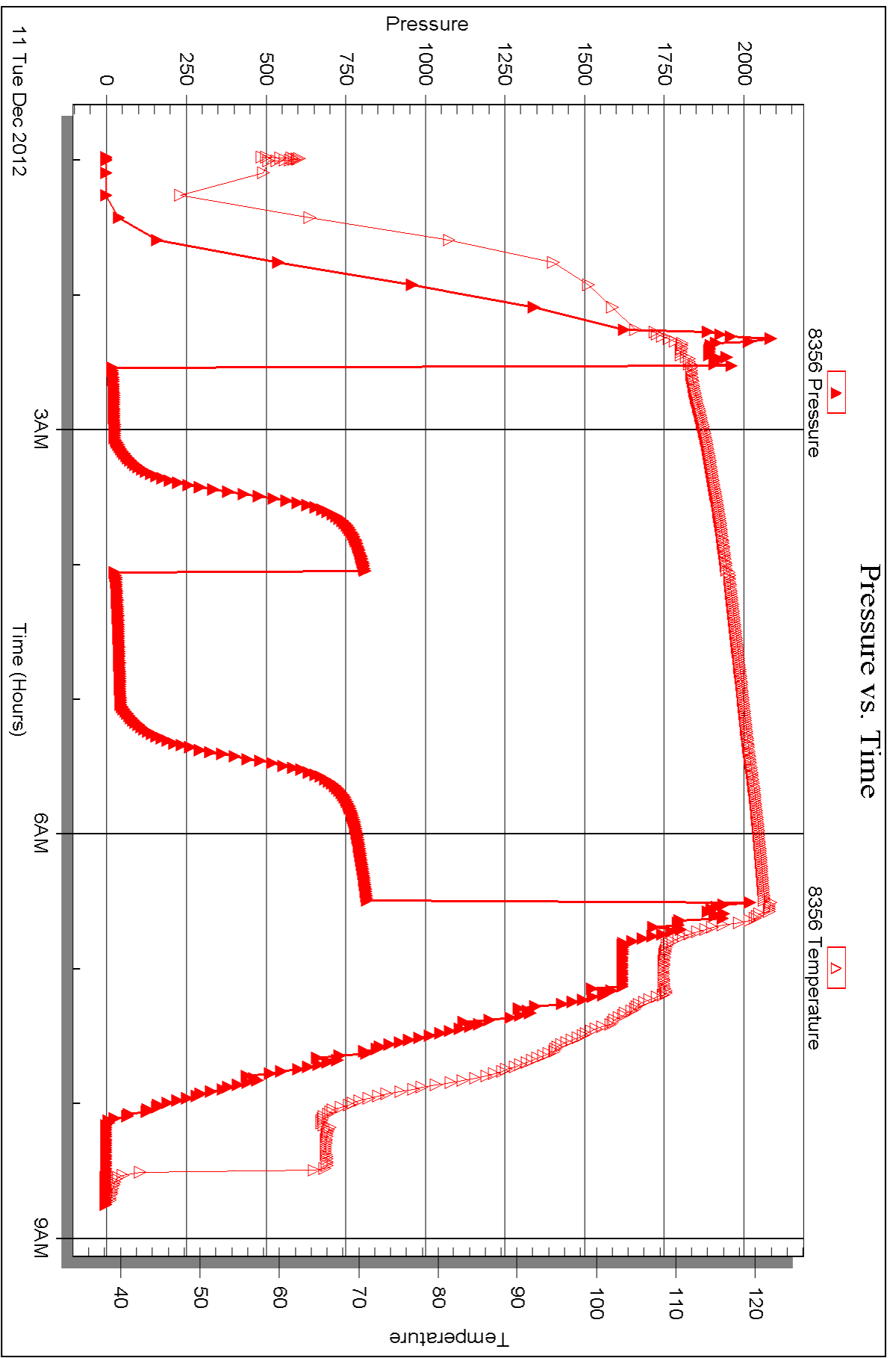


Serial #: 8356

Outside Murfin Drilling Company

Roerner Bell #1-1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N. Water ste 300
Wichita, KS 67202

ATTN: Robert Hendrix

Roemer Bell #1-1

1-15s-30w Gove,KS

Start Date: 2012.12.11 @ 19:16:39

End Date: 2012.12.12 @ 03:30:09

Job Ticket #: 50118 DST #: 3

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

Printed: 2012.12.17 @ 11:15:48



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

1-15s-30w Gove, KS

250 N. Water ste 300
Wichita, KS 67202

Roemer Bell #1-1

ATTN: Robert Hendrix

Job Ticket: 50118

DST#: 3

Test Start: 2012.12.11 @ 19:16:39

GENERAL INFORMATION:

Formation: **Lansing K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:08:09

Time Test Ended: 03:30:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 3952.00 ft (KB) To 4010.00 ft (KB) (TVD)

Reference Elevations: 2633.00 ft (KB)

Total Depth: 4010.00 ft (KB) (TVD)

2622.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8373

Inside

Press @ Run Depth: 313.11 psig @ 3953.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.11

End Date:

2012.12.12

Last Calib.:

2012.12.12

Start Time: 19:16:44

End Time:

03:30:08

Time On Btm:

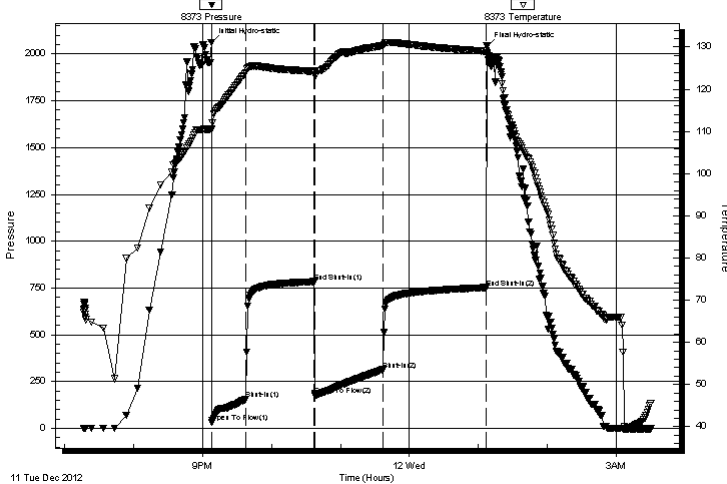
2012.12.11 @ 21:07:39

Time Off Btm:

2012.12.12 @ 01:07:09

TEST COMMENT: IF: BOB in 10 min.
IS: BOB in 12 min.
FF: BOB in 10 min.
FS: BOB in 12 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2061.61	110.50	Initial Hydro-static
1	33.16	110.57	Open To Flow (1)
30	155.41	123.90	Shut-In(1)
90	784.00	124.21	End Shut-In(1)
91	178.20	123.21	Open To Flow (2)
149	313.11	130.37	Shut-In(2)
239	751.77	129.04	End Shut-In(2)
240	2041.70	128.69	Final Hydro-static

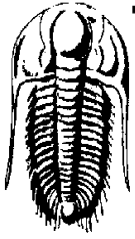
Recovery

Length (ft)	Description	Volume (bbl)
124.00	gocw m 20%g 30%o 10%w 40%m	0.61
310.00	gocm 20%g 10%o 70%m	3.36
382.00	go 10%g 90%o	5.36
0.00	930 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

1-15s-30w Gove, KS

250 N. Water ste 300
Wichita, KS 67202

Roemer Bell #1-1

Job Ticket: 50118

DST#: 3

ATTN: Robert Hendrix

Test Start: 2012.12.11 @ 19:16:39

GENERAL INFORMATION:

Formation: **Lansing K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:08:09

Time Test Ended: 03:30:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: **3952.00 ft (KB) To 4010.00 ft (KB) (TVD)**

Reference Elevations: 2633.00 ft (KB)

Total Depth: 4010.00 ft (KB) (TVD)

2622.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: **8356** Outside

Press @ Run Depth: psig @ 3953.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.11

End Date:

2012.12.12

Last Calib.:

2012.12.12

Start Time: 19:16:46

End Time:

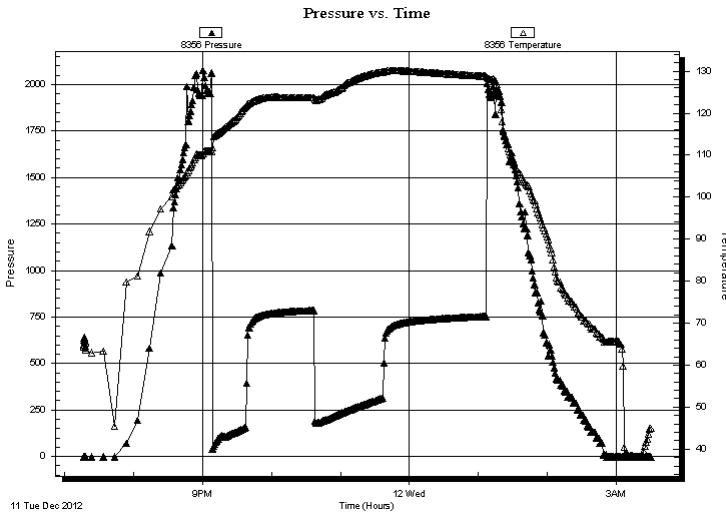
03:30:10

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 10 min.
IS: BOB in 12 min.
FF: BOB in 10 min.
FS: BOB in 12 min.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	gocw m 20%g 30%o 10%w 40%m	0.61
310.00	gocm 20%g 10%o 70%m	3.36
382.00	go 10%g 90%o	5.36
0.00	930 GIP	0.00

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 Company

1-15s-30w Gove,KS

250 N. Water ste 300
Wichita, KS 67202

Roemer Bell #1-1

Job Ticket: 50118

DST#: 3

ATTN: Robert Hendrix

Test Start: 2012.12.11 @ 19:16:39

Tool Information

Drill Pipe:	Length: 3723.00 ft	Diameter: 3.80 inches	Volume: 52.22 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 53.37 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	3952.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	58.00 ft				
Tool Length:	86.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

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

Stubb	1.00			3925.00	
Shut In Tool	5.00			3930.00	
Hydraulic tool	5.00			3935.00	
Jars	5.00			3940.00	
Safety Joint	3.00			3943.00	
Packer	5.00			3948.00	28.00 Bottom Of Top Packer
Packer	4.00			3952.00	
Stubb	1.00			3953.00	
Recorder	0.00	8373	Inside	3953.00	
Recorder	0.00	8356	Outside	3953.00	
Perforations	18.00			3971.00	
Change Over Sub	1.00			3972.00	
Drill Pipe	32.00			4004.00	
Change Over Sub	1.00			4005.00	
Bullnose	5.00			4010.00	58.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

1-15s-30w Gove,KS

250 N. Water ste 300
Wichita, KS 67202

Roemer Bell #1-1

Job Ticket: 50118

DST#: 3

ATTN: Robert Hendrix

Test Start: 2012.12.11 @ 19:16:39

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 79.00 sec/qt
Water Loss: 5.99 in³
Resistivity: 0.00 ohm.m
Salinity: 3600.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 37 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	gocw m 20%g 30%o 10%w 40%m	0.610
310.00	gocm 20%g 10%o 70%m	3.356
382.00	go 10%g 90%o	5.358
0.00	930 GIP	0.000

Total Length: 816.00 ft Total Volume: 9.324 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 34@30=37

Serial #: 8373

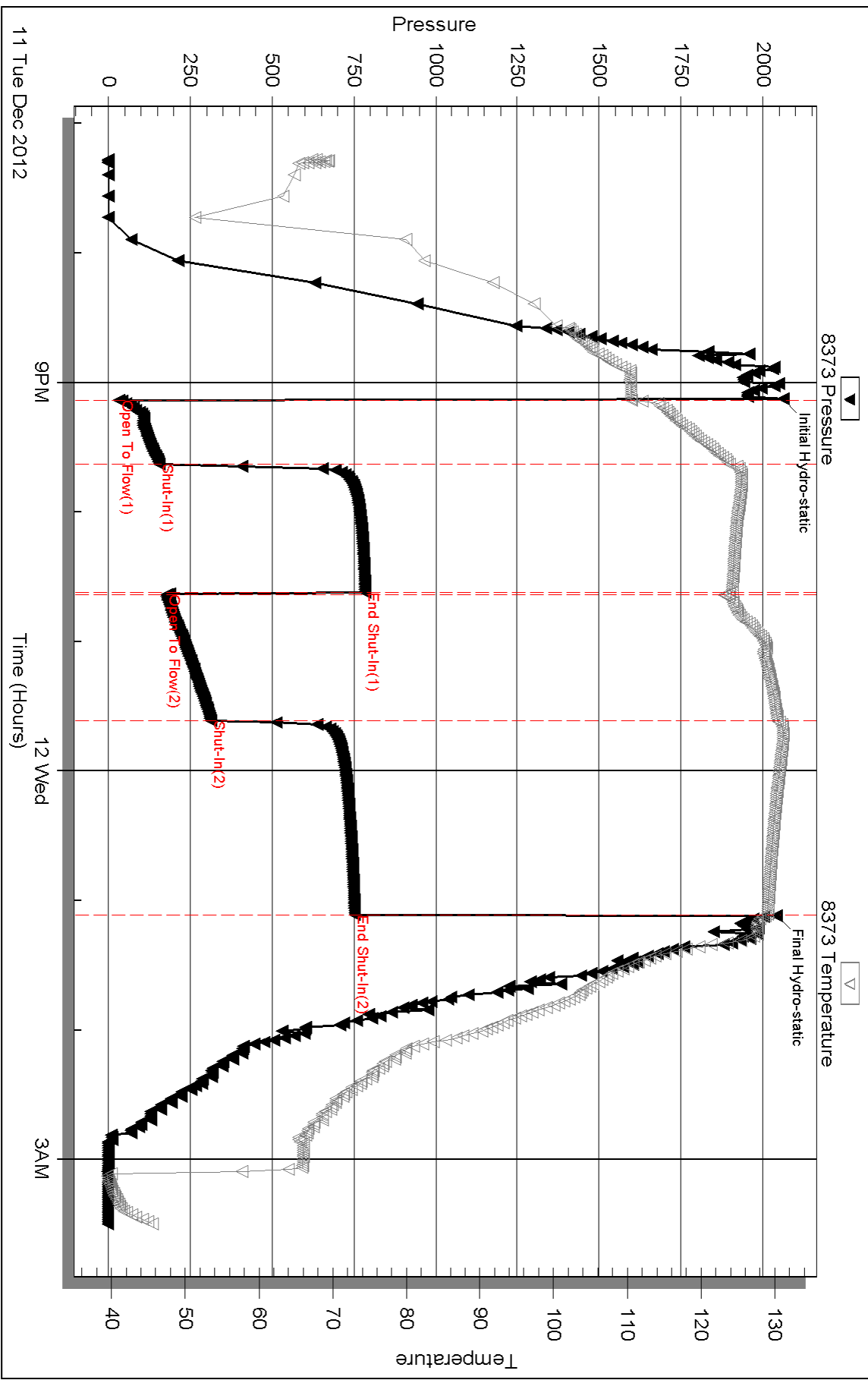
Inside

Murfin Drilling Company

Roerner Bell #1-1

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50118

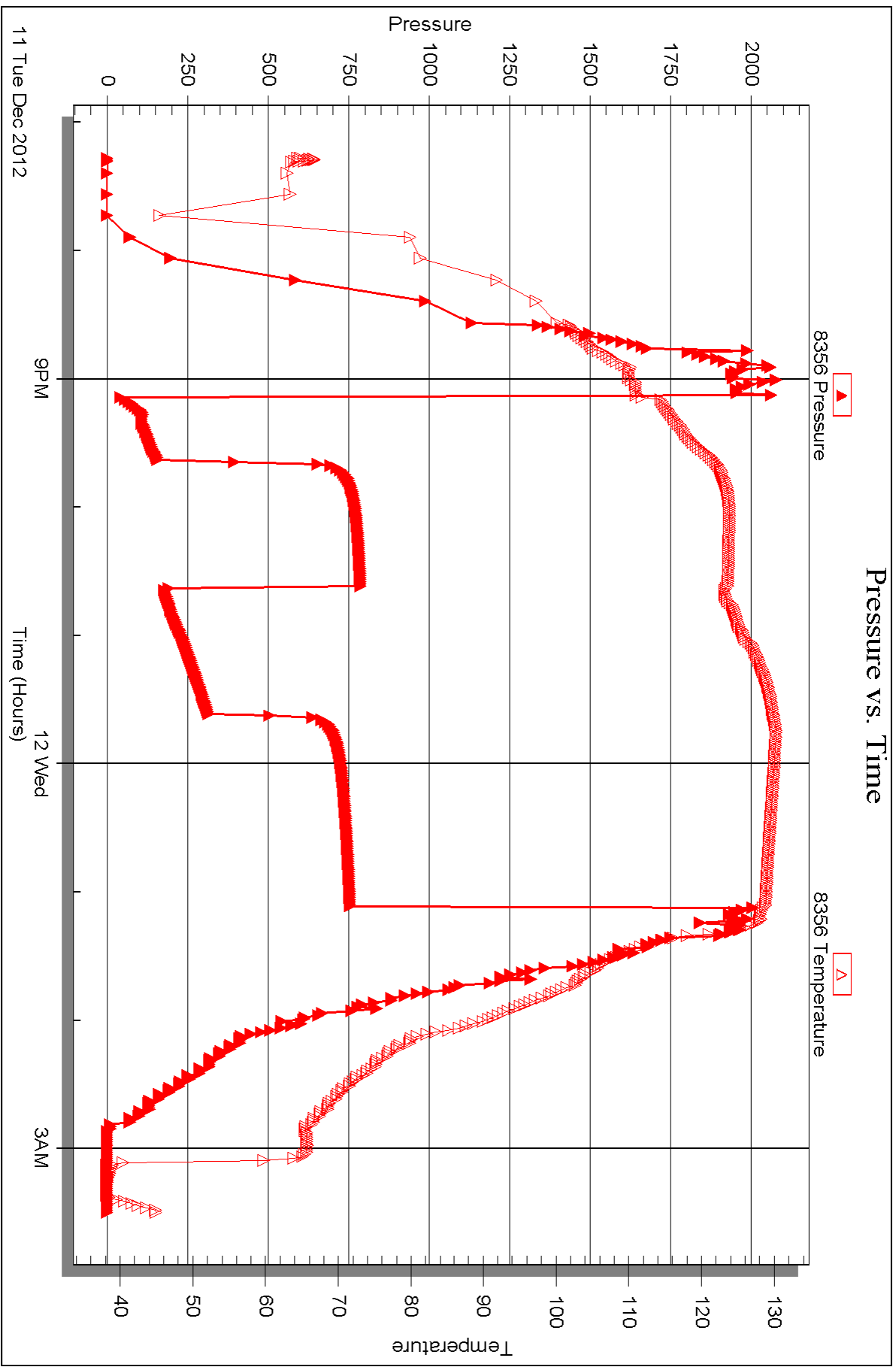
Printed: 2012.12.17 @ 11:15:52

Serial #: 8356

Outside Murfin Drilling Company

Roemer Bell #1-1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 50118

Printed: 2012.12.17 @ 11:15:53



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N. Water ste 300
Wichita, KS 67202

ATTN: Robert Hendrix

Roemer Bell #1-1

1-15s-30w Gove,KS

Start Date: 2012.12.13 @ 01:33:02

End Date: 2012.12.13 @ 09:37:02

Job Ticket #: 50119 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.17 @ 11:14:55

Murfin Drilling Company

1-15s-30w Gove,KS

Roemer Bell #1-1

DST # 4

Pawnee Ft Scott

2012.12.13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company
 250 N. Water ste 300
 Wichita, KS 67202
 ATTN: Robert Hendrix

1-15s-30w Gove,KS
Roemer Bell #1-1
 Job Ticket: 50119 **DST#: 4**
 Test Start: 2012.12.13 @ 01:33:02

GENERAL INFORMATION:

Formation: **Pawnee Ft Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:04:32
 Time Test Ended: 09:37:02
 Interval: **4139.00 ft (KB) To 4217.00 ft (KB) (TVD)**
 Total Depth: 4217.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 60
 Reference Elevations: 2633.00 ft (KB)
 2622.00 ft (CF)
 KB to GR/CF: 11.00 ft

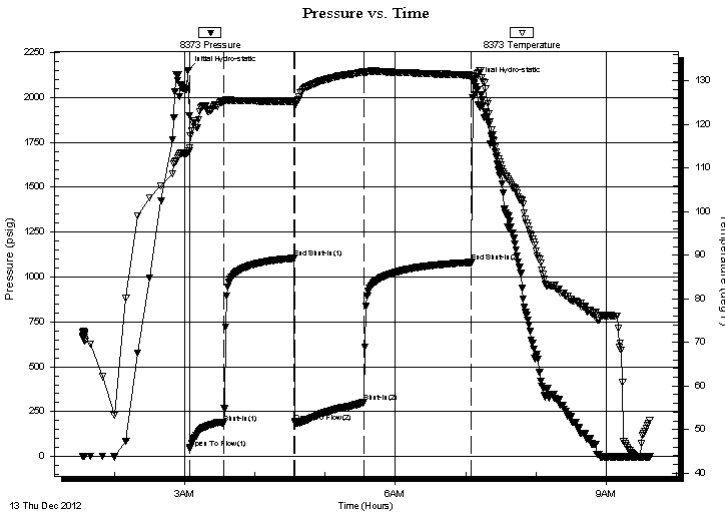
Serial #: 8373

Inside

Press @ Run Depth: 301.12 psig @ 4140.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.13 End Date: 2012.12.13 Last Calib.: 2012.12.13
 Start Time: 01:33:07 End Time: 09:37:01 Time On Btm: 2012.12.13 @ 03:03:02
 Time Off Btm: 2012.12.13 @ 07:06:32

TEST COMMENT: IF: BOB in 15 min.
 IS: Surface blow built to 1 1/2.
 FF: BOB in 13 min.
 FS: Surface blow built to 5.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2151.32	113.53	Initial Hydro-static
2	46.81	114.77	Open To Flow (1)
31	187.36	125.42	Shut-In(1)
90	1104.59	125.33	End Shut-In(1)
92	191.95	124.63	Open To Flow (2)
150	301.12	132.11	Shut-In(2)
242	1082.23	131.33	End Shut-In(2)
244	2087.69	130.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	ocmw 10%o 50%w 40%m	0.61
62.00	gocw m 10%g 10%o 20%w 60%m	0.30
186.00	mcgo 50%g 20%o 30%m	2.18
351.00	go 30%g 70%o	4.92
0.00	620 GIP	0.00

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

1-15s-30w Gove,KS

250 N. Water ste 300
Wichita, KS 67202

Roemer Bell #1-1

ATTN: Robert Hendrix

Job Ticket: 50119

DST#: 4

Test Start: 2012.12.13 @ 01:33:02

GENERAL INFORMATION:

Formation: **Pawnee Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:04:32

Time Test Ended: 09:37:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4139.00 ft (KB) To 4217.00 ft (KB) (TVD)

Reference Elevations: 2633.00 ft (KB)

Total Depth: 4217.00 ft (KB) (TVD)

2622.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8356 Outside

Press@RunDepth: psig @ 4140.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.13

End Date: 2012.12.13

Last Calib.: 2012.12.13

Start Time: 01:33:07

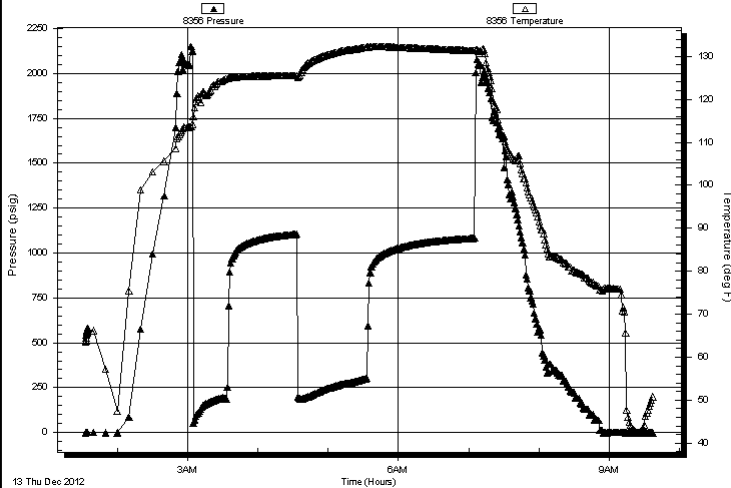
End Time: 09:37:01

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 15 min.
IS: Surface blow built to 1 1/2.
FF: BOB in 13 min.
FS: Surface blow built to 5.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	ocmw 10%o 50%w 40%m	0.61
62.00	gocw m 10%g 10%o 20%w 60%m	0.30
186.00	mcgo 50%g 20%o 30%m	2.18
351.00	go 30%g 70%o	4.92
0.00	620 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

1-15s-30w Gove,KS

250 N. Water ste 300
Wichita, KS 67202

Roemer Bell #1-1

Job Ticket: 50119

DST#: 4

ATTN: Robert Hendrix

Test Start: 2012.12.13 @ 01:33:02

Tool Information

Drill Pipe:	Length: 3882.00 ft	Diameter: 3.80 inches	Volume: 54.45 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 55.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4139.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	106.00 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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Stubb	1.00			4112.00	
Shut In Tool	5.00			4117.00	
Hydraulic tool	5.00			4122.00	
Jars	5.00			4127.00	
Safety Joint	3.00			4130.00	
Packer	5.00			4135.00	28.00 Bottom Of Top Packer
Packer	4.00			4139.00	
Stubb	1.00			4140.00	
Recorder	0.00	8373	Inside	4140.00	
Recorder	0.00	8356	Outside	4140.00	
Perforations	7.00			4147.00	
Change Over Sub	1.00			4148.00	
Drill Pipe	63.00			4211.00	
Change Over Sub	1.00			4212.00	
Bullnose	5.00			4217.00	78.00 Bottom Packers & Anchor

Total Tool Length: 106.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

1-15s-30w Gove,KS

250 N. Water ste 300
Wichita, KS 67202

Roemer Bell #1-1

Job Ticket: 50119

DST#: 4

ATTN: Robert Hendrix

Test Start: 2012.12.13 @ 01:33:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

38000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
124.00	ocmw 10%o 50%w 40%m	0.610
62.00	gocw m 10%g 10%o 20%w 60%m	0.305
186.00	mcgo 50%g 20%o 30%m	2.181
351.00	go 30%g 70%o	4.924
0.00	620 GIP	0.000

Total Length: 723.00 ft Total Volume: 8.020 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 33@50=34

.31@43= 38000

Serial #: 8373

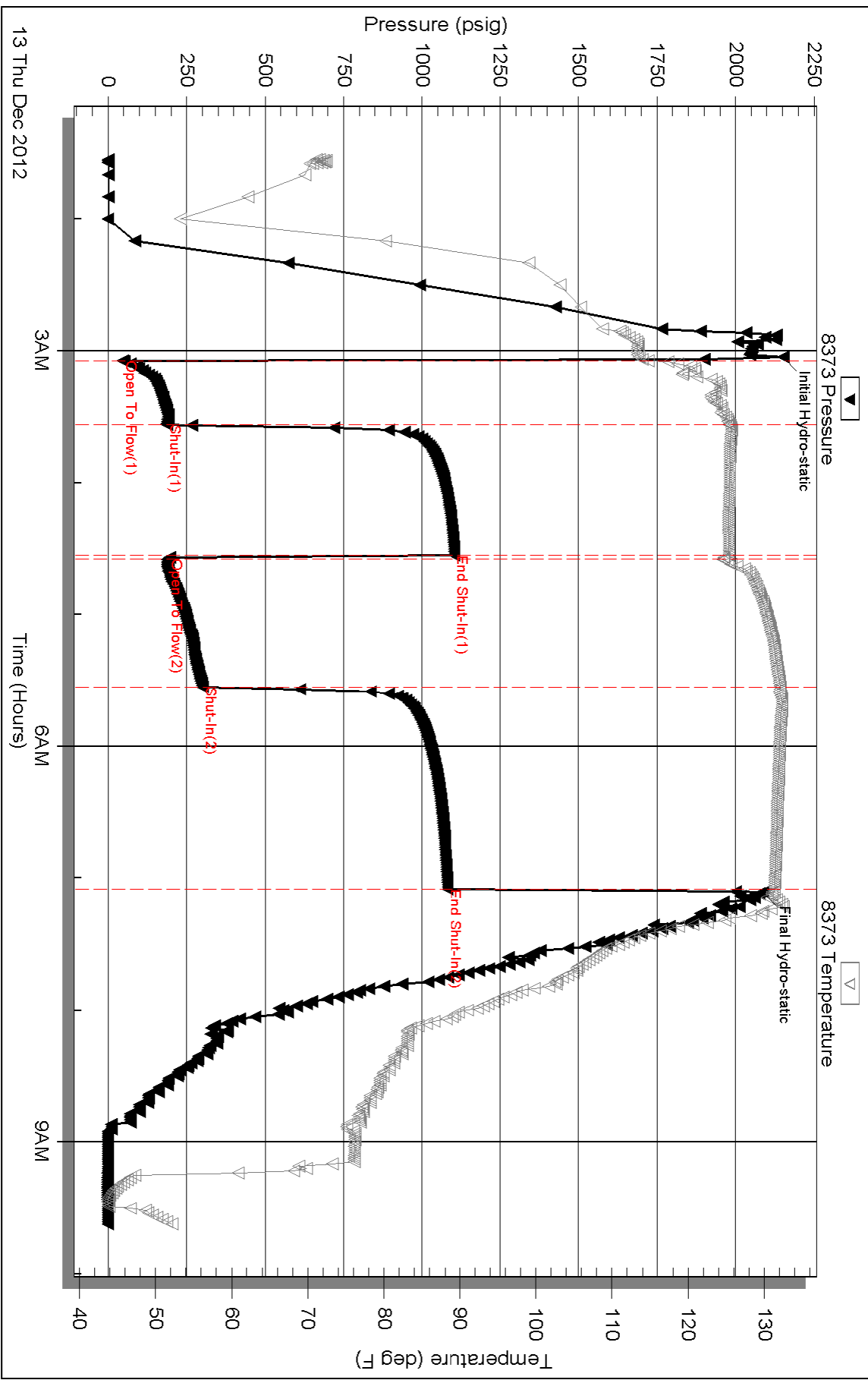
Inside

Murfin Drilling Company

Roerner Bell #1-1

DST Test Number: 4

Pressure vs. Time

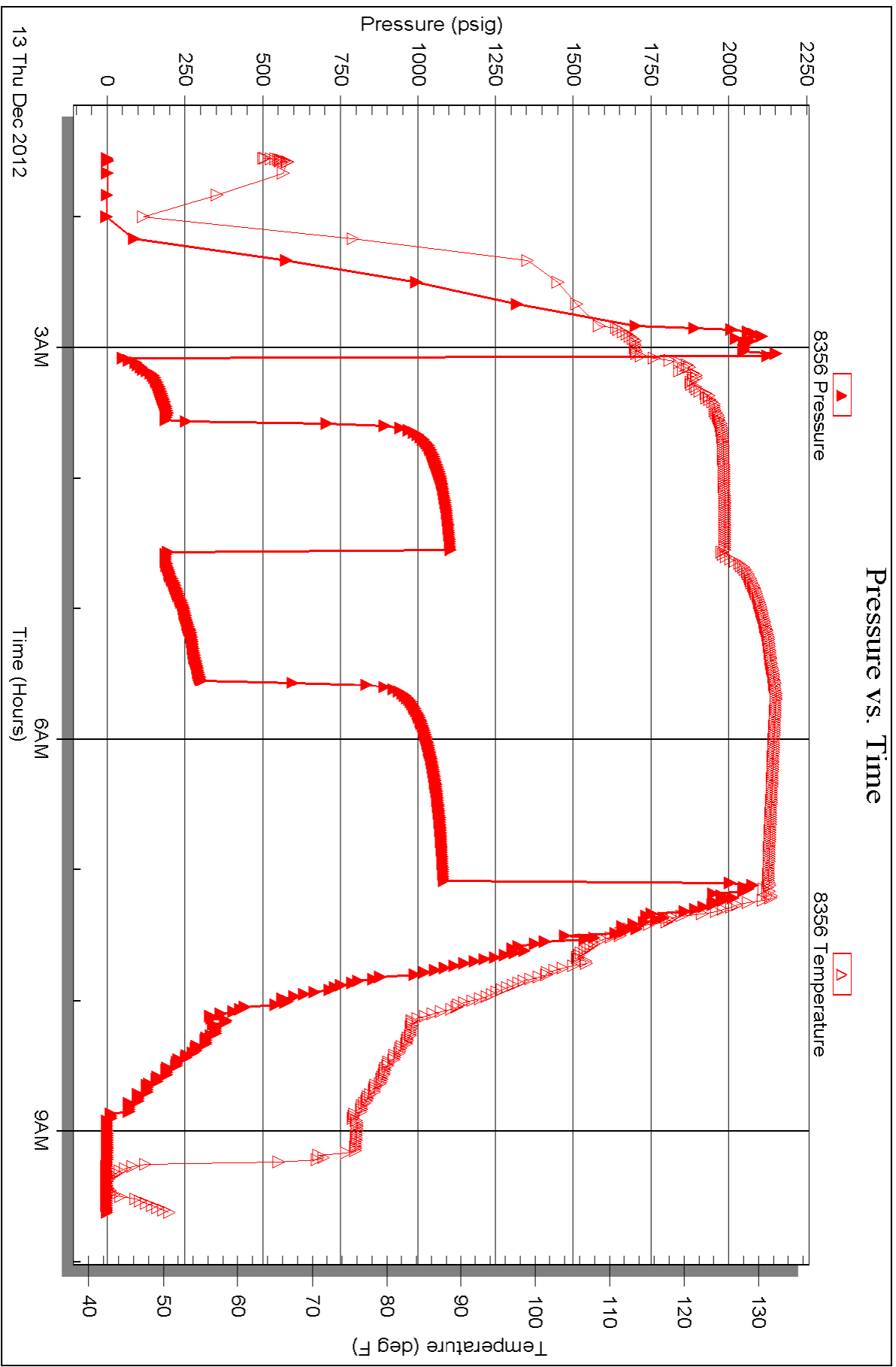


Serial #: 8356

Outside Murfin Drilling Company

Roemer Bell #1-1

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50116

4/10

Well Name & No. Roemer Bell 1-1 Test No. 1 Date 12-9-12
 Company Murfin Drilling Company Elevation 2633 KB 2622 GL
 Address 250 N Water Ste 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 1 Twp. 15 Rge. 30 Co. Gove State KS

Interval Tested 3717 3795 Zone Tested Lansing B-F
 Anchor Length 78 Drill Pipe Run 3474 Mud Wt. 9.1
 Top Packer Depth 3712 Drill Collars Run 233 Vis 81
 Bottom Packer Depth 3717 Wt. Pipe Run — WL 5.6
 Total Depth 3795 Chlorides 2200 ppm System LCM 6

Blow Description IF: BoB in 12 min.
IS: surface blow built to 1 1/2.
FS: BoB in 20 min.
FS: surface blow built to 4.

Rec	Feet of	%gas	%oil	%water	%mud
<u>258</u>	<u>MGO</u>	<u>10</u>	<u>60</u>	<u>30</u>	
<u>186</u>	<u>gocwm</u>	<u>5</u>	<u>10</u>	<u>80</u>	
<u>124</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
<u>186</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	
	<u>248 GFP</u>				

Rec Total 754 BHT 122 Gravity — API RW .45 @ 10 °F Chlorides 44,000 ppm

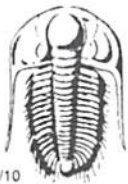
(A) Initial Hydrostatic 1889 Test 1150 T-On Location 22:00
 (B) First Initial Flow 33 Jars 250 T-Started 23:38
 (C) First Final Flow 215 Safety Joint 75 T-Open 1:42
 (D) Initial Shut-In 970 Circ Sub NIC T-Pulled 5:42
 (E) Second Initial Flow 225 Hourly Standby — T-Out 8:45
 (F) Second Final Flow 380 Mileage 78 - 120.9
 (G) Final Shut-In 952 Sampler —
 (H) Final Hydrostatic 1813 Straddle —
 Shale Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —

Ruined Shale Packer —
 Ruined Packer —
 Extra Copies —
 Sub Total 0
 Total 1595.90
 MP/DST Disc't —

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

Approved By [Signature] 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. 50117

4/10

Well Name & No. Roemer Bell 1-1 Test No. 2 Date 12-11-12
 Company Murfin Drilling company Elevation 2633 KB 2622 GL
 Address _____
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 1 Twp. 15 Rge. 30 Co. Gove State KS

Interval Tested 3906 3940 Zone Tested Lansing J
 Anchor Length 34 Drill Pipe Run 3665 Mud Wt. 9.0
 Top Packer Depth 3901 Drill Collars Run 233 Vis 99
 Bottom Packer Depth 3906 Wt. Pipe Run _____ WL 5.2
 Total Depth 3940 Chlorides 5400 ppm System LCM 6

Blow Description IF; 1/4 blow built to 1.
IS; No return.
FF; 1/4 blow built to 4.
FS; No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free oil</u>	<u>100</u>			
<u>62</u>	<u>90cm</u>	<u>20</u>	<u>10</u>	<u>70</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

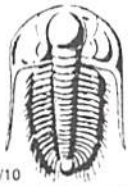
Rec Total 63 BHT 121 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2059 Test 1150 T-On Location 00:00
 (B) First Initial Flow 17 Jars 250 T-Started 00:58
 (C) First Final Flow 26 Safety Joint 75 T-Open 2:30
 (D) Initial Shut-In 808 Circ Sub N/L T-Pulled 6:30
 (E) Second Initial Flow 25 Hourly Standby T-Out 8:45
 (F) Second Final Flow 43 Mileage 78- 120.90 Comments _____
 (G) Final Shut-In 816 Sampler _____
 (H) Final Hydrostatic 2063 Straddle _____

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 60 Extra Packer _____ Ruined Packer _____
 Final Flow 60 Extra Recorder _____ Sub Total 0
 Final Shut-In 90 Day Standby _____ Total 1595.90
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1595.90

Approved By [Signature] 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. 50118

Well Name & No. Roemer Bell 1-1 Test No. 3 Date 12-11-12
 Company Murfin Drilling company Elevation 2633 KB 2622 GL
 Address _____
 Co. Rep / Geo. Robert Hendrix Rig Murfin 2
 Location: Sec. 1 Twp. 15 Rge. 30 Co. 609 State KS

Interval Tested 3952 4010 Zone Tested Lensing K-L
 Anchor Length _____ Drill Pipe Run 3723 Mud Wt. 9.3
 Top Packer Depth _____ Drill Collars Run 233 Vis 79
 Bottom Packer Depth 3952 Wt. Pipe Run _____ WL 6.0
 Total Depth 4010 Chlorides 3600 ppm System LCM 6

Blow Description IF: BoB in 10 min.
IS: BoB in 12 min.
FF: BoB in 10 min.
FS: BoB in 12 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>382</u>	<u>90</u>	<u>10</u>	<u>90</u>		
<u>310</u>	<u>90cm</u>	<u>20</u>	<u>10</u>	<u>70</u>	
<u>124</u>	<u>90cm</u>	<u>20</u>	<u>30</u>	<u>10</u>	<u>40</u>
	<u>930 GFP</u>				

Rec Total 816 BHT 129 Gravity 37 API RW - @ - °F Chlorides _____ ppm

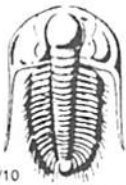
(A) Initial Hydrostatic 2061 Test 1250 T-On Location 19:00
 (B) First Initial Flow 33 Jars 250 T-Started 19:16
 (C) First Final Flow 155 Safety Joint 75 T-Open 21:06
 (D) Initial Shut-In 784 Circ Sub NIC T-Pulled 1:06
 (E) Second Initial Flow 178 Hourly Standby T-Out 3:35
 (F) Second Final Flow 313 Mileage 78- 120.90 Comments _____
 (G) Final Shut-In 751 Sampler _____
 (H) Final Hydrostatic 2041 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1695.90

Approved By RLD. LLC Our Representative _____

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. 50119

Well Name & No. Rocmer Bell 1-1 Test No. 4 Date 12-13-12
 Company Murfin Drilling company Elevation 2633 KB 2622 GL
 Address _____
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 1 Twp. 15 Rge. 30 Co. Gove State KS

Interval Tested 4139 4217 Zone Tested Pawnee - Ft. Scott
 Anchor Length _____ Drill Pipe Run 3882 Mud Wt. 9.3
 Top Packer Depth 4134 Drill Collars Run 233 Vis 45
 Bottom Packer Depth 4139 Wt. Pipe Run _____ WL 8.4
 Total Depth 4217 Chlorides 2100 ppm System LCM 4

Blow Description IF! BoB in 15 min.
IS! surface blow built to 1 1/2
FF! BoB in 13 min.
FS! surface blow built to 5.

Rec	Feet of	%gas	%oil	%water	%mud
<u>351</u>	<u>90</u>	<u>30</u>	<u>70</u>		
<u>186</u>	<u>mc90</u>	<u>50</u>	<u>20</u>		<u>30</u>
<u>62</u>	<u>90cwm</u>	<u>10</u>	<u>10</u>	<u>20</u>	<u>60</u>
<u>124</u>	<u>ocmw</u>	<u>10</u>	<u>10</u>	<u>50</u>	<u>40</u>
Rec _____	Feet of <u>620 GIP</u>	%gas	%oil	%water	%mud

Rec Total 723 BHT 132 Gravity 34 API RW .31 @ 43 °F Chlorides 38,000 ppm

(A) Initial Hydrostatic <u>2151</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>1:00</u>
(B) First Initial Flow <u>46</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1:33</u>
(C) First Final Flow <u>187</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>3:04</u>
(D) Initial Shut-In <u>1104</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>7:04</u>
(E) Second Initial Flow <u>191</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>9:45</u>
(F) Second Final Flow <u>301</u>	<input checked="" type="checkbox"/> Mileage <u>78 x 2</u> 241.80	Comments <u>loaded tools</u>
(G) Final Shut-In <u>1082</u>	<input type="checkbox"/> Sampler	<u>11:00 12-14-12</u>
(H) Final Hydrostatic <u>2087</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Day Standby 1d 1.25h	Total <u>2616.80</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
Final Flow <u>60</u>	Sub Total <u>1816.80</u>	
Final Shut-In <u>90</u>		

Approved By [Signature] Our Representative [Signature]

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Accty -

cc: SWT
cc: L-1
cc: L-1



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



Invoice

DATE	INVOICE #
12/21/2012	22999

BILL TO
Murfin Drilling Co Inc P. O. Box 130 Hill City, KS 67642-0130
USED FOR
APPROVED

- Acidizing
- Cement
- Tool Rental

IC 103
[Signature]

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-1	Roemer-Bell	Gove	Company Tools	Oil	Development	Port Collar	Nick
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	6.00	480.00
576D-D	Pump Charge - Port Collar - 2065 Feet				1	Job	1,250.00	1,250.00
290	D-Air				2	Gallon(s)	35.00	70.00T
330	Swift Multi-Density Standard (MIDCON II)				155	Sacks	16.50	2,557.50T
279	Bentonite Gel				10	Sack(s)	25.00	250.00T
276	Flocele				50	Lb(s)	2.00	100.00T
581D	Service Charge Cement				260	Sacks	2.00	520.00
583D	Drayage				1,017.5	Ton Miles	1.00	1,017.50
	Subtotal							6,245.00
	Sales Tax Gove County						8.05%	239.69

Thank You For Your Business & Best Wishes For A Wonderful Holiday Season!!

Total \$6,484.69



Services, Inc.

CHARGE TO: Murfin Dry Co. Inc
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET No 22999

PAGE 1 OF 1

SERVICE LOCATIONS: 1. Hays, KS 2. Ness City, KS

WELL/PROJECT NO: #1-1 LEASE: Remm-Bell COUNTY/PARISH: Gore STATE: KS CITY: DATE: 12-21-12 OWNER: same

TICKET TYPE: SERVICE SALES CONTRACTOR: Co Tools RIG NAME/NO.: SHIPPED VIA: CT DELIVERED TO: Location ORDER NO.:

WELL TYPE: oil WELL CATEGORY: development JOB PURPOSE: Port Collar WELL PERMIT NO.: WELL LOCATION:

4. REFERRAL LOCATION: INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT								
5775		1			#111	82	M			6.00	482.00
576D		1		Ramp Charge (Port Collar)		1	ea	2065'		1250.00	1250.00
290		1		D-Air		2	gal			35.00	70.00
330		2		SMD Cement		15	skts			16.50	255.75
279		2		Benthaite gel		10	skts			25.00	250.00
276		2		Floccle		50	#			2.00	100.00
581		2		Cement Service Charge		200	skts			2.00	520.00
583		2		Drays		1017	skts			1.00	1017.50

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

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

X DATE SIGNED: 12-21-12 TIME SIGNED: 11:30 A.M. P.M.

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	6245.00
TOTAL	6484.69

SWIFT OPERATOR: Walt Wolfe APPROVAL:

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

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE **12-21-12** PAGE NO. **1**

CUSTOMER **Martin Drilling Co. Inc**

WELL NO. **#1-1**

LEASE **Roemer-Bell**

JOB TYPE **Port Callar**

TICKET NO. **22999**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0830							on loc setup Trks 2 3/8" x 5 1/2" P.C. 2065'
	0950					1200		Test csq to 1200 Ps' Open P.C.
	1000	3	3			350		Take injection rate
	1005	3.5	0			400		Start gel
		3.5	30/0			400		start wtr
	1015	3.5	5/0			400		start Cement 155sks SMD
	1030	3.5	75			600		Circ. Cnt. / raise weight
	1031	3.5	80/0			600		End Cement / Start Displacement
	1033		7			600		Cement Displaced
	1035							Close PC
	1040					1000		Test Csq Run 5jts
	1050	3	0			150		Reverse out
	1057		20					Hole Clean
								155sks SMD circ 20sks topit
								Thank you Nick, David E. & Flint



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

Invoice

DATE	INVOICE #
12/14/2012	23573

Original

BILL TO

Murfin Drilling Co Inc
P. O. Box 130
Hill City, KS 67642-0130

USED FOR

APPROVED

Acctg
cc: w/f
cc: h/z
cc: l/l

IC 103
J.P. K

- Solidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-1	Roemer-Bell	Gove	Company Tools	Oil	Development	Cement LongStri...	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				60	Miles	6.00	360.00
578D-L	Pump Charge - Long String				1	Job	1,500.00	1,500.00
403-5	5 1/2" Cement Basket				1	Each	250.00	250.00T
404-5	5 1/2" Port Collar				1	Each	2,400.00	2,400.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	350.00	350.00T
409-5	5 1/2" Turbolizer				10	Each	90.00	900.00T
413-5	5 1/2" Roto Wall Scratcher				30	Each	40.00	1,200.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				225	Sacks	13.50	3,037.50T
284	Calseal				11	Sack(s)	35.00	385.00T
283	Salt				1,150	Lb(s)	0.20	230.00T
285	CFR-1				150	Lb(s)	4.00	600.00T
276	Flocele				50	Lb(s)	2.00	100.00T
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
290	D-Air				3	Gallon(s)	35.00	105.00T
581D	Service Charge Cement				225	Sacks	2.00	450.00
583D	Drayage				708	Ton Miles	1.00	708.00
	Subtotal							14,375.50
	Sales Tax Gove County						8.05%	914.28

Thank You For Your Business & Best Wishes For A Wonderful Holiday Season!!

Total \$15,289.78



Services, Inc.

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

TICKET No 23573

PAGE 1 OF 2

1. SERVICE LOCATIONS: New City, KS WELLPROJECT NO. 1-1 LEASE Rover-Bell COUNTY/PARISH Gove STATE KS CITY Gove DATE 14 Dec OWNER
 2. TICKET TYPE: SERVICE SALES CONTRACTOR CD Tools RIG NAME/NO. 2 SHIPPED CT DELIVERED TO location ORDER NO.
 3. WELL TYPE: DT WELL CATEGORY: Development JOB PURPOSE: consult long string WELL PERMIT NO.
 4. REFERRAL LOCATION: DT INVOICE INSTRUCTIONS: 1-15-30

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UN.	QTY.	UN.	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE TRK 114	600	mi			6.00	3600.00
578					Pump Charge	1	ea			1500.00	1500.00
403					Consult Basket	1	ea			250.00	250.00
404					Post Office	1	ea			2400.00	2400.00
406					latch down plug & baggie	1	ea			250.00	250.00
407					insert float shoe w/ hardware	1	ea			350.00	350.00
409					TURNERIZOR	10	ea			90.00	900.00
413					Rotomull scratchers	300	ea			40.00	12000.00
419					Rotating head rental	1	ea			2000.00	2000.00

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

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

X DATE SIGNED: Wade King TIME SIGNED: 2:31 PM

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	7410.00
WE UNDERSTOOD AND MET YOUR NEEDS?				2	6965.50
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Subtotal	14,375.50
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Gene Tax	914.28
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	15,289.78

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



SWIFT
 Services, Inc.
 PO Box 466
 Ness City, KS 67560
 Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 23573

CUSTOMER
 MURFIN DRILLING

WELL
 Revere - Bell 1-1

DATE
 12/12/94

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE	AMOUNT		
		LOC	ACCT	ID			QTY	U/M	QTY	U/M				
285						STD cement (see 2-2)	285	sk				1350	3037.50	
284						casel	1100	lb		11	sk	3500	385.00	
283						SOIL	1150	lb				0.20	230.00	
285						CFR-1	150	lb				4.00	600.00	
276						Flodale	52	lb				2.00	100.00	
280						Flodale 21	500	gal				2.50	1250.00	
281						KCL Liquid	4	gal				25.00	100.00	
290						D-AR 8	3	gal				35.00	105.00	
501						SERVICE CHARGE						2.00	450.00	
585						MILEAGE CHARGE						1.00	728.00	
SERVICE CHARGE MILEAGE CHARGE TOTAL WEIGHT 23600 LOADED MILES 60 CUBIC FEET TON MILES 708														

CONTINUATION TOTAL 6985.50

JOB LOG

SWIFT Services, Inc.

DATE 14 Dec 12 PAGE NO. 1

CUSTOMER MURPIN Drilling

WELL NO. 1-1

LEASE Roene Bell

JOB TYPE Cement long string

TICKET NO. 23573

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								225 sk EA-2 cement w/ $\frac{1}{2}$ floccle
								105 jts 5 1/2" x 16.5" casing
								10 ft slug + TD 4398 Total pipe 4393
								12 bbl Floccle Port collar #56 2065'
								Cont 1, 2, 3, 4, 6, 8, 10, 12, 14, 55
								Bucket 56 100' rotating well scratchers
	1730							on loc TRK 114
	1745							start 15.5" x 5 1/2" casing in well
	1910							circulate w/ 60 jts in
	2030							Drop ball - circulate - ROTATE
	2135	4 1/2	15			200		Pump 15 bbl KCL flush
		4 1/2	12			200		Pump 200 500 gal floccle
		4 1/2				200		Pump 5 bbl KCL flush
	2145		12					Plug RH - MH <u>30 sks</u> - <u>20 sks</u>
	2150	4 1/2	42			200		MIX EA-2 cement <u>175 sks</u> @ 15.3 gpg
								Drop latchdown plug
								wash out pump line
	2210	6 1/2				200		Displace plug
		6 1/2	95			750		
	2230	6 1/2	104			1500		Land Plug
	2232							Release pressure to truck - dirty
	2240							wash truck
								Rack up
								job complete
								Thanks
								Blaine Flint #DAVE