



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1092303
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: _____

1092303

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: Yes No

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</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

September 18, 2012

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

Re: ACO1
API 15-039-21152-00-00
Wasson 1-31
SE/4 Sec.31-04S-29W
Decatur 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

Wasson #1-31 1850' FSL 750' FEL Sec. 31-4S-29W 2800' KB							Porsch #1 F & M Oil Co. Inc Sec. 32-4S-29W 2789' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2545	+255	+11	2545	+255	+11	2545	+244
B/Anhydrite	2582	+218	+7	2580	+220	+9	2578	+211
Topeka	3675	-875	+1	3673	-873	+3	3665	-876
Heebner	3845	-1045	+2	3844	-1044	+3	3836	-1047
Lansing	3892	-1092	+5	3892	-1092	+5	3885	-1097
Stark	4048	-1248	+3	4047	-1247	+4	4040	-1251
BKC	4094	-1294	+3	4094	-1294	+3	4086	-1297
Pawnee	4203	-1403	+3	4204	-1404	+2	4195	-1406
Cherokee	4289	-1489	+2	4289	-1489	+2	4280	-1491
Mississippi	4416	-1616	N/A	4416	-1616	N/A	NDE	
RTD	4509						4375	
LTD				4509			4372	

Jeff Christian

PETROLEUM GEOLOGIST
Wichita, Kansas

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR **MURFIN DRILLING COMPANY**
LEASE **WASSON # 1-31**
LOCATION **1850' FSL & 750' FEL**

SEC. **31** TWPSP **4 S** R1NG **29 W**
COUNTY **DECATUR** STATE **KANSAS**

FIELD **WILDCAIT**
API **15-039-21152**

CONTRACTOR **MURFIN** RIG NO. **8**
DRILLING STARTED **06/25/2012** COMPLETED **07/04/2012**

WILD DISPLACED **2821** MUD TYPE **CHEMICAL**
DRILLING TIME KEPT FROM **3876** TO **RTD**
SAMPLES SAVED FROM **3880** TO **RTD**
SAMPLES EXAMINED FROM **3880** TO **RTD**
GEOLOGICAL SUPERVISION FROM **3640** TO **RTD**

FORMATION NAME	LOG TOP	DATUM	SAMPLE DATE
ANHYDRITE	2545'	(+255)	2545' (+255)
TOPEKA	3674'	(-874)	3675' (-875)
HEEBNER	3845'	(-1045)	3845' (-1045)
LANSING	3892'	(-1092)	3892' (-1092)
STARK	4046'	(-1246)	4048' (-1248)
RKC	4094'	(-1294)	4094' (-1294)
CHEROKEE	4289'	(-1489)	4289' (-1489)
MISSISSIPPIAN	4416'	(-1616)	4416' (-1616)
ARBUCLE	4465'	(-1665)	4465' (-1665)
TOTAL DEPTH	4509'	(-1709)	4509' (-1709)

ELEVATIONS
BH **2800'**
CL **2795'**

MEASUREMENTS FROM 6
CASING RECORD
Conductor NONE

Surface **8.5/8" @ 220'**
W/ **1/8" SX**
Production NONE

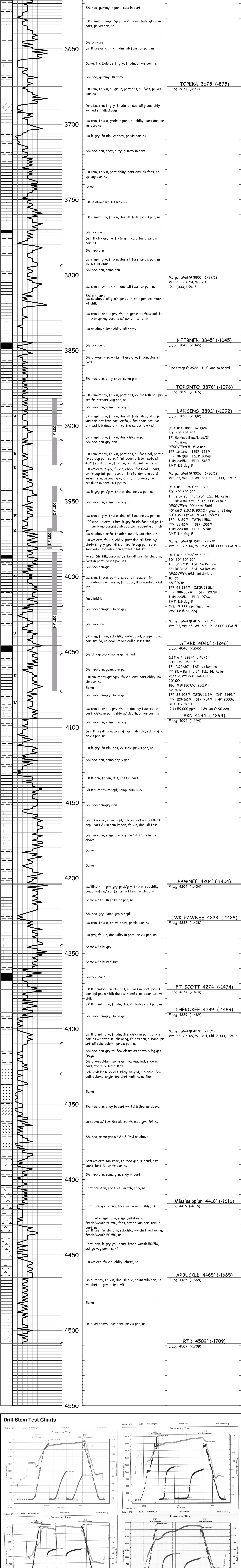
ELECTRICAL SURVEYS
LOG TECH. INC.
DIL
CML/CDL

FORMATION NAME	LOG TOP	DATUM	SAMPLE DATE
ANHYDRITE	2545'	(+255)	2545' (+255)
TOPEKA	3674'	(-874)	3675' (-875)
HEEBNER	3845'	(-1045)	3845' (-1045)
LANSING	3892'	(-1092)	3892' (-1092)
STARK	4046'	(-1246)	4048' (-1248)
RKC	4094'	(-1294)	4094' (-1294)
CHEROKEE	4289'	(-1489)	4289' (-1489)
MISSISSIPPIAN	4416'	(-1616)	4416' (-1616)
ARBUCLE	4465'	(-1665)	4465' (-1665)
TOTAL DEPTH	4509'	(-1709)	4509' (-1709)

DATE	7:00 AM DEPTH	REMARKS
6/25/12	MIRT	SPUD 3:00 pm
6/26/12	530'	DRLG. dev. 3/4 deg. @ 220'
6/27/12	2330'	DRLG.
6/28/12	3310'	DRLG.
6/29/12	3810'	DRLG.
6/30/12	3926'	TIH after DST # 1 dev. 1/2 deg.
7/1/12	3982'	TIH for DST # 3
7/2/12	4076'	OB w/ DST # 4
7/3/12	4182'	DRLG. RTD 4515' @ 5:15 pm dev. 1 deg.
7/4/12	4509'	FINISH LOGGING @ 3:30 am P&A

Remarks
Base on electric log analysis and drill stem test results, the Wasson # 1-31 was declared dry and abandoned.
Electric log measurements correlate about even compared to rotary measurements.
Sample tops adjusted to the electric log.
Samples deposited at the Kansas Geological Survey.
Respectfully Submitted,
Jeff Christian
Jeff Christian

LITH.	0	DRILL TIME (MIN/FT)	10	DEPTH (FT)	SAMPLE DESCRIPTIONS	REMARKS
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Drill Stem Test Charts





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Jeff Christenson

Wasson #1-31

31-4s-29w Decatur,KS

Start Date: 2012.06.29 @ 21:30:00

End Date: 2012.06.30 @ 05:06:30

Job Ticket #: 46094 DST #: 1

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

Printed: 2012.07.06 @ 15:03:58



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

31-4s-29w Decatur, KS

250 N. Water Ste. 300
Wichita KS 67202

Wasson #1-31

Job Ticket: 46094

DST#: 1

ATTN: Jeff Christenson

Test Start: 2012.06.29 @ 21:30:00

GENERAL INFORMATION:

Formation: **LKC-A,B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:15:30

Time Test Ended: 05:06:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3882.00 ft (KB) To 3926.00 ft (KB) (TVD)

Reference Elevations: 2800.00 ft (KB)

Total Depth: 3926.00 ft (KB) (TVD)

2795.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 19.22 psig @ 3885.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.29

End Date:

2012.06.30

Last Calib.:

2012.06.30

Start Time:

21:30:05

End Time:

05:06:29

Time On Btm:

2012.06.30 @ 00:13:00

Time Off Btm:

2012.06.30 @ 03:10:30

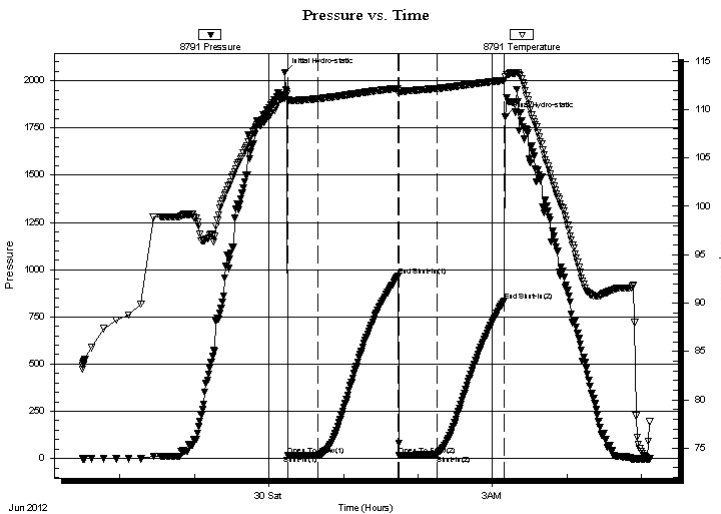
TEST COMMENT: IF: Weak surface blow, Died in 3 mins.

IS: No blow over 60 mins.

FF: No blow over 30 mins.

FS: No blow back over 60 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2044.85	111.16	Initial Hydro-static
3	15.96	110.97	Open To Flow (1)
26	16.26	111.12	Shut-In(1)
91	967.52	112.20	End Shut-In(1)
92	18.19	111.91	Open To Flow (2)
122	19.22	112.17	Shut-In(2)
177	835.69	113.01	End Shut-In(2)
178	1811.93	113.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%M	0.02

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

31-4s-29w Decatur, KS

250 N. Water Ste. 300
Wichita KS 67202

Wasson #1-31

Job Ticket: 46094

DST#: 1

ATTN: Jeff Christenson

Test Start: 2012.06.29 @ 21:30:00

GENERAL INFORMATION:

Formation: **LKC-A,B**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 00:15:30

Tester: Chuck Kreuzer Jr.

Time Test Ended: 05:06:30

Unit No: 61

Interval: 3882.00 ft (KB) To 3926.00 ft (KB) (TVD)

Reference Elevations: 2800.00 ft (KB)

Total Depth: 3926.00 ft (KB) (TVD)

2795.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8673 Outside

Press @RunDepth: psig @ 3885.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.29

End Date:

2012.06.30

Last Calib.:

2012.06.30

Start Time: 21:30:05

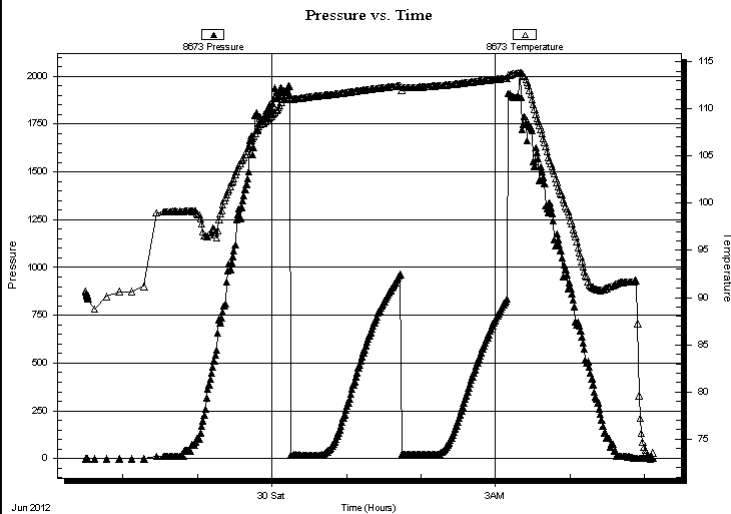
End Time:

05:06:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak surface blow , Died in 3 mins.
IS: No blow over 60 mins.
FF: No blow over 30 mins.
FS: No blow back over 60 mins.



PRESSURE SUMMARY

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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	mud-100%M	0.02

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

31-4s-29w Decatur, KS

250 N. Water Ste. 300
Wichita KS 67202

Wasson #1-31

Job Ticket: 46094

DST#: 1

ATTN: Jeff Christenson

Test Start: 2012.06.29 @ 21:30:00

Tool Information

Drill Pipe:	Length: 3699.00 ft	Diameter: 3.80 inches	Volume: 51.89 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 52.80 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3882.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3859.00	
Hydraulic tool	5.00			3864.00	
Jars	5.00			3869.00	
Safety Joint	3.00			3872.00	
Packer	5.00			3877.00	28.00 Bottom Of Top Packer
Packer	5.00			3882.00	
Stubb	1.00			3883.00	
Perforations	1.00			3884.00	
Change Over Sub	1.00			3885.00	
Recorder	0.00	8791	Inside	3885.00	
Recorder	0.00	8673	Outside	3885.00	
Drill Pipe	32.00			3917.00	
Change Over Sub	1.00			3918.00	
Perforations	5.00			3923.00	
Bullnose	3.00			3926.00	44.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

31-4s-29w Decatur,KS

250 N. Water Ste. 300
Wichita KS 67202

Wasson #1-31

Job Ticket: 46094

DST#: 1

ATTN: Jeff Christenson

Test Start: 2012.06.29 @ 21:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud-100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

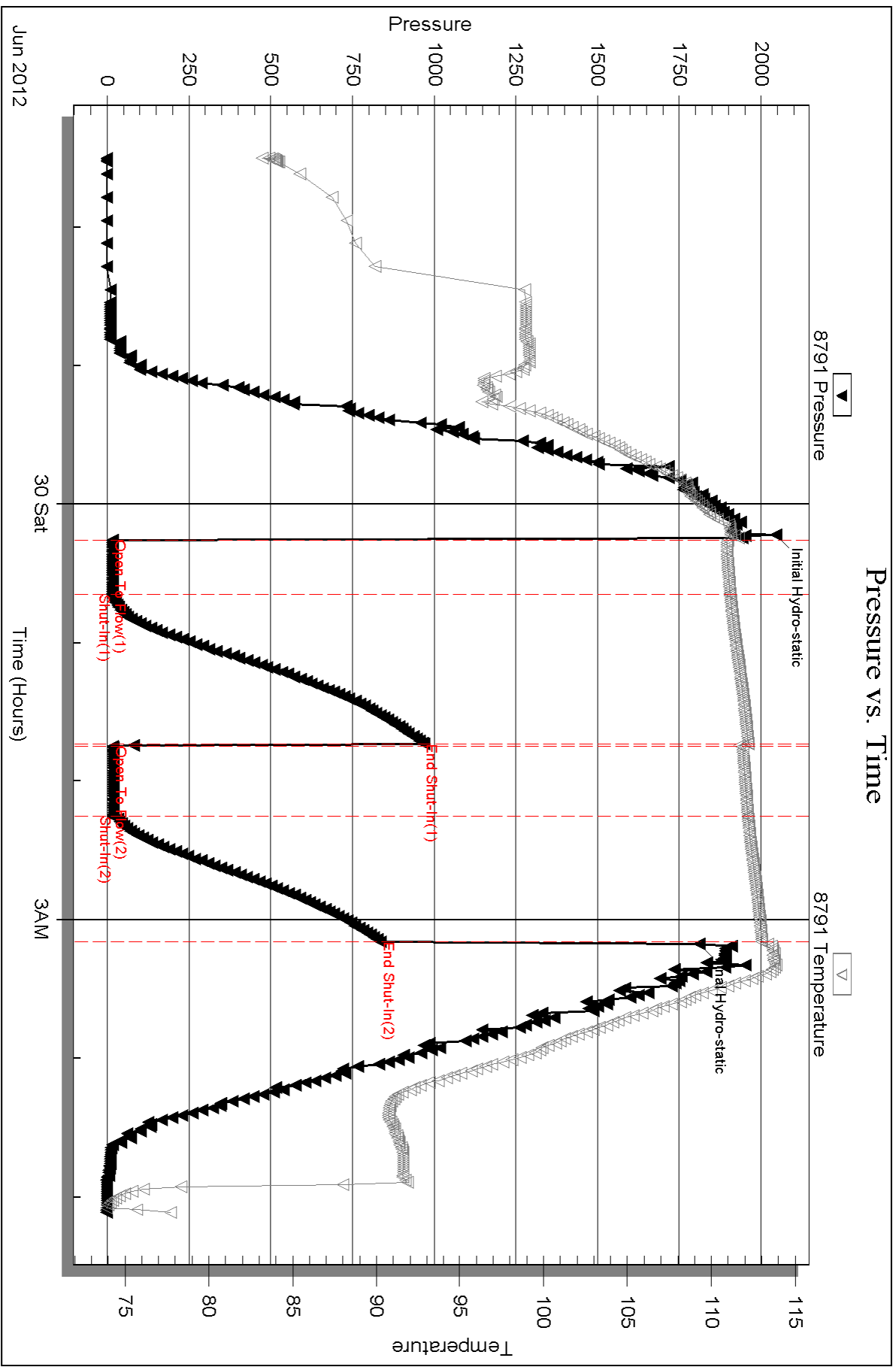
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

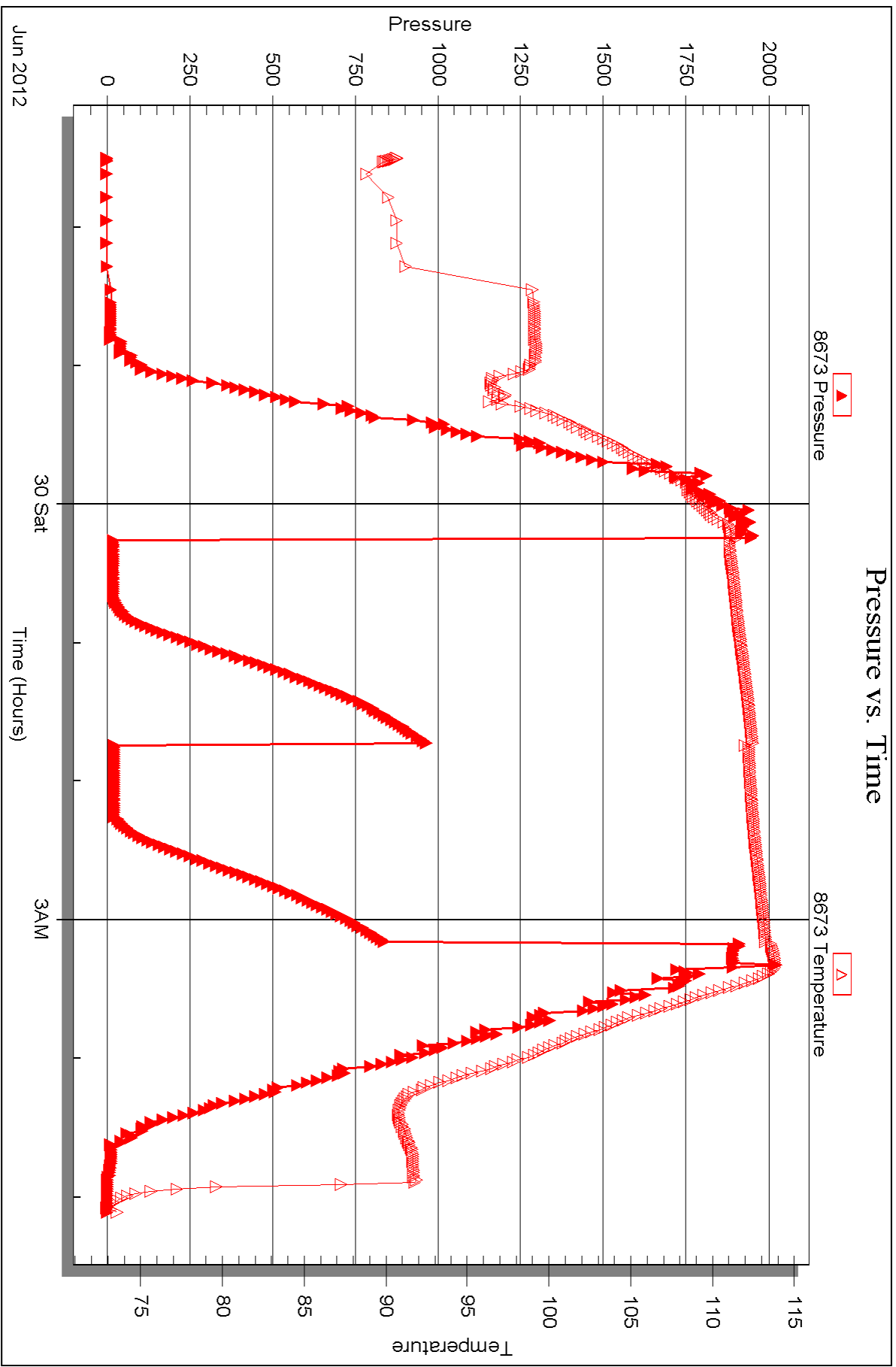


Serial #: 8673

Outside Murfin Drilling Co.

Masson #1-31

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Jeff Christenson

Wasson #1-31

31-4s-29w Decatur,KS

Start Date: 2012.06.30 @ 14:15:00

End Date: 2012.06.30 @ 22:08:00

Job Ticket #: 46095 DST #: 2

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

Printed: 2012.07.06 @ 15:02:50



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

31-4s-29w Decatur, KS

250 N. Water Ste. 300
Wichita KS 67202

Wasson #1-31

Job Ticket: 46095

DST#: 2

ATTN: Jeff Christenson

Test Start: 2012.06.30 @ 14:15:00

GENERAL INFORMATION:

Formation: **LKC-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:18:30

Time Test Ended: 22:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3940.00 ft (KB) To 3970.00 ft (KB) (TVD)

Reference Elevations: 2800.00 ft (KB)

Total Depth: 3970.00 ft (KB) (TVD)

2795.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 51.26 psig @ 3942.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.30

End Date: 2012.06.30

Last Calib.: 2012.06.30

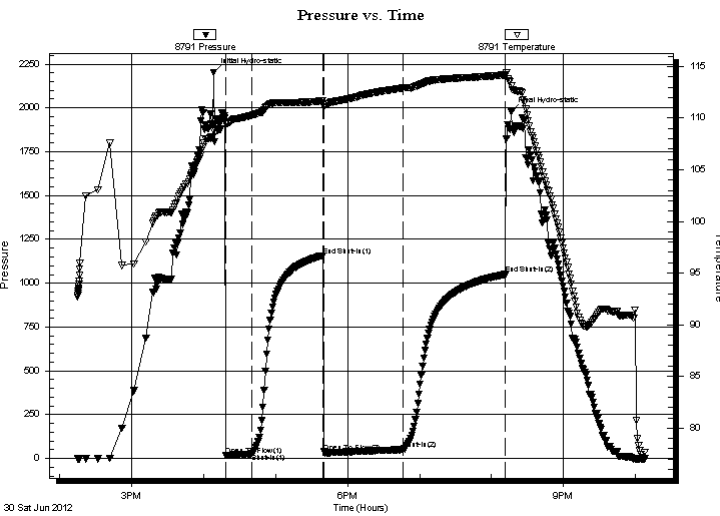
Start Time: 14:15:05

End Time: 22:07:59

Time On Btm: 2012.06.30 @ 16:08:30

Time Off Btm: 2012.06.30 @ 20:16:30

TEST COMMENT: IF: Weak blow, Built to 1 1/4in. over 30 mins. Stacked out 86 ft. from bottom, pushed 36 ft. to bottom.
 IS: NO blow back over 60 mins.
 FF: Weak blow, Built to 3 in. over 60 mins.
 FSI: No blow back over 90 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2202.45	108.73	Initial Hydro-static
10	17.76	109.48	Open To Flow (1)
32	28.78	110.27	Shut-In(1)
91	1157.84	111.66	End Shut-In(1)
92	37.99	111.13	Open To Flow (2)
158	51.26	112.92	Shut-In(2)
243	1051.02	114.17	End Shut-In(2)
248	1977.70	113.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gmco-5%g25%m75%o	0.30
40.00	go-10%g90%0	0.20

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

31-4s-29w Decatur, KS

250 N. Water Ste. 300
Wichita KS 67202

Wasson #1-31

ATTN: Jeff Christenson

Job Ticket: 46095

DST#: 2

Test Start: 2012.06.30 @ 14:15:00

GENERAL INFORMATION:

Formation: **LKC-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:18:30

Time Test Ended: 22:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreutzer Jr.

Unit No: 61

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Reference Elevations: 2800.00 ft (KB)

Total Depth: 3970.00 ft (KB) (TVD)

2795.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8673 Outside

Press @ Run Depth: psig @ 3942.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.30

End Date:

2012.06.30

Last Calib.:

2012.06.30

Start Time: 14:15:05

End Time:

22:07:59

Time On Btm:

Time Off Btm:

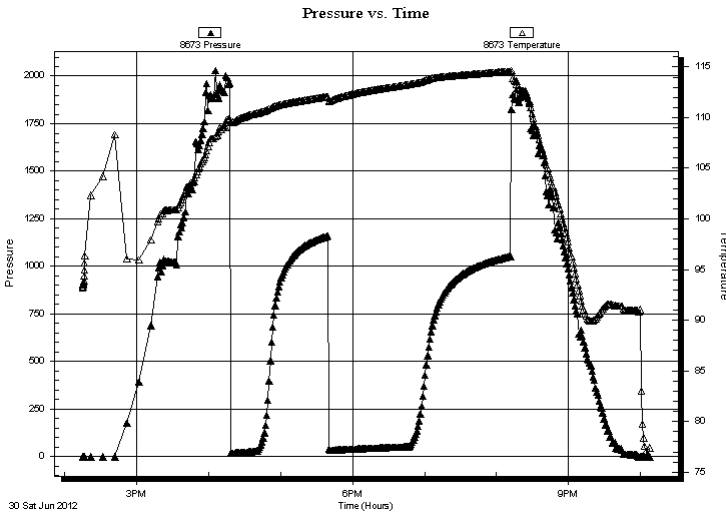
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ISI: NO blow back over 60 mins.

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FSI: No blow back over 90 mins.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gmco-5%g25%m75%o	0.30
40.00	go-10%g90%0	0.20

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

31-4s-29w Decatur,KS

250 N. Water Ste. 300
Wichita KS 67202

Wasson #1-31

Job Ticket: 46095

DST#: 2

ATTN: Jeff Christenson

Test Start: 2012.06.30 @ 14:15:00

Tool Information

Drill Pipe:	Length: 3731.00 ft	Diameter: 3.80 inches	Volume: 52.34 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.25 bbl</u>	Tool Chased 36.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3940.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3917.00	
Hydraulic tool	5.00			3922.00	
Jars	5.00			3927.00	
Safety Joint	3.00			3930.00	
Packer	5.00			3935.00	28.00 Bottom Of Top Packer
Packer	5.00			3940.00	
Stubb	1.00			3941.00	
Perforations	1.00			3942.00	
Recorder	0.00	8791	Inside	3942.00	
Recorder	0.00	8673	Outside	3942.00	
Perforations	25.00			3967.00	
Bullnose	3.00			3970.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

31-4s-29w Decatur,KS

250 N. Water Ste. 300
Wichita KS 67202

Wasson #1-31

Job Ticket: 46095

DST#: 2

ATTN: Jeff Christenson

Test Start: 2012.06.30 @ 14:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gmco-5%g25%m75%o	0.295
40.00	go-10%g90%0	0.197

Total Length: 100.00 ft Total Volume: 0.492 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 33@90*=31

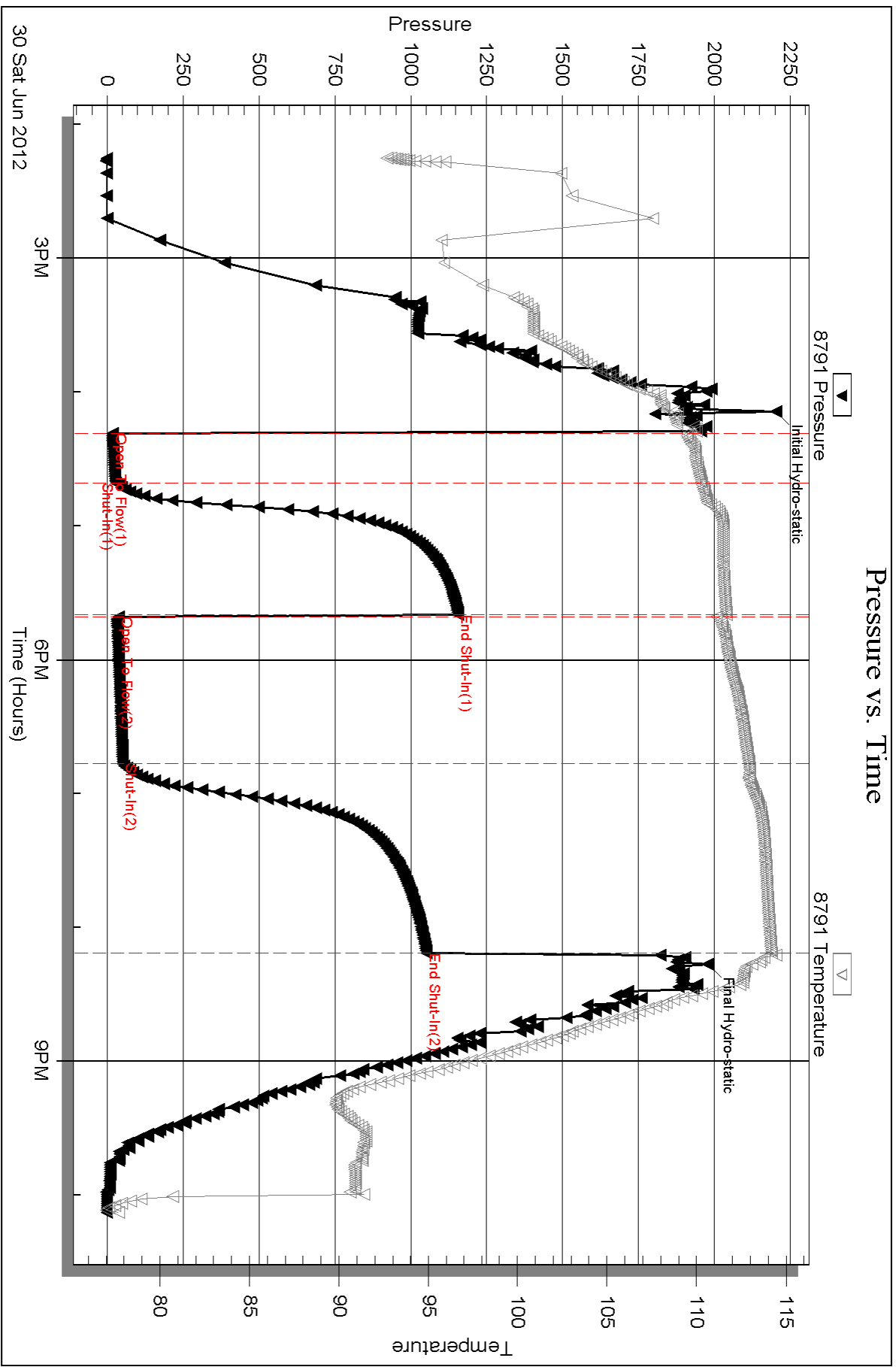
Serial #: 8791

Inside

Murfin Drilling Co.

Masson #1-31

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 46095

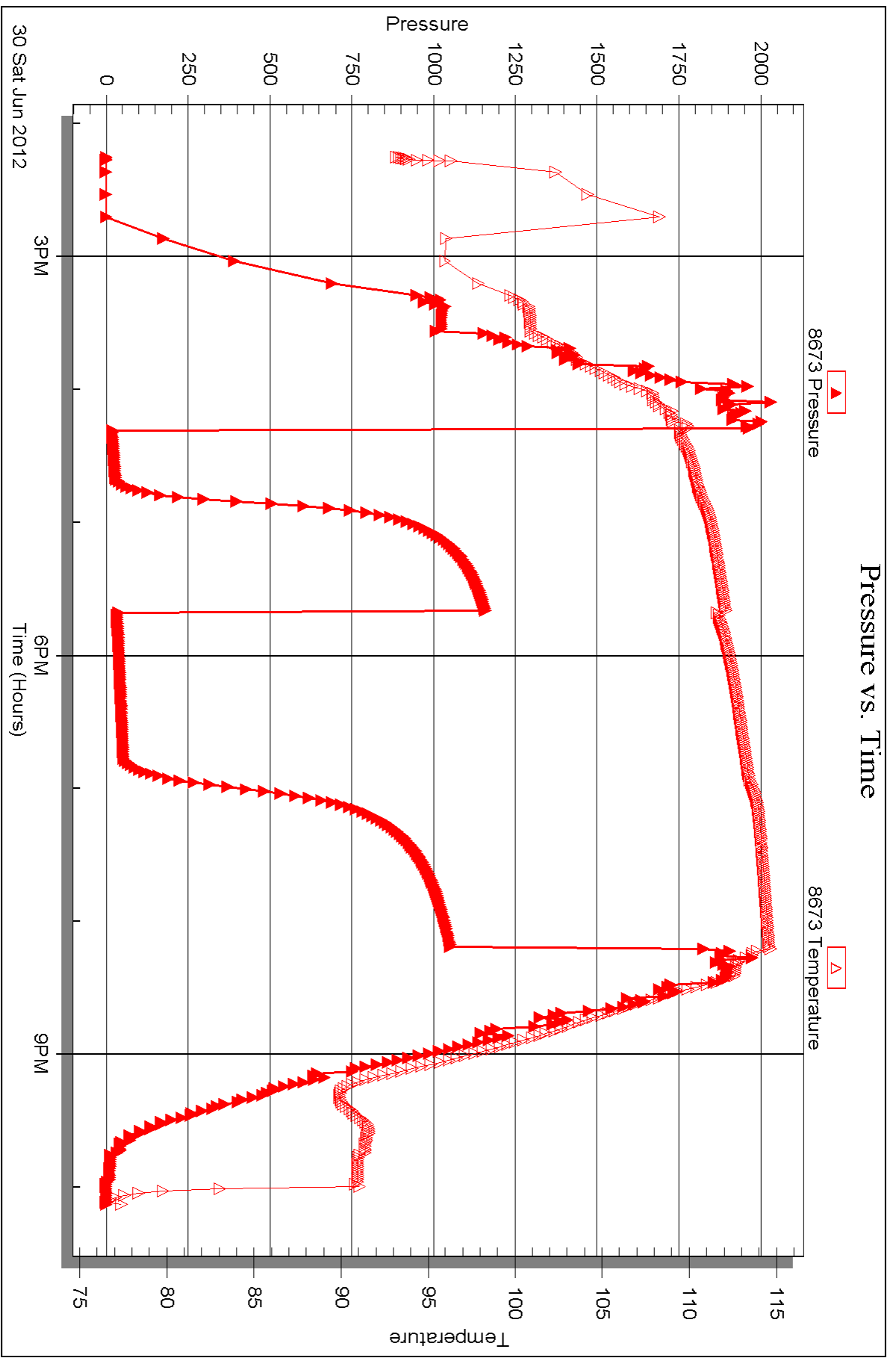
Printed: 2012.07.06 @ 15:02:52

Serial #: 8673

Outside Murfin Drilling Co.

Masson #1-31

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Jeff Christenson

Wasson #1-31

31-4s-29w Decatur,KS

Start Date: 2012.07.01 @ 05:05:00

End Date: 2012.07.01 @ 13:49:30

Job Ticket #: 46096 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.07.06 @ 15:01:20

Murfin Drilling Co. 31-4s-29w Decatur,KS Wasson #1-31 DST # 3 LK-C-F 2012.07.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

31-4s-29w Decatur, KS

250 N. Water Ste. 300
Wichita KS 67202

Wasson #1-31

Job Ticket: 46096

DST#: 3

ATTN: Jeff Christenson

Test Start: 2012.07.01 @ 05:05:00

GENERAL INFORMATION:

Formation: **LKC-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:25:30

Time Test Ended: 13:49:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3968.00 ft (KB) To 3982.00 ft (KB) (TVD)

Reference Elevations: 2800.00 ft (KB)

Total Depth: 3982.00 ft (KB) (TVD)

2795.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 336.92 psig @ 3969.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.01

End Date:

2012.07.01

Last Calib.:

2012.07.01

Start Time:

05:05:05

End Time:

13:49:30

Time On Btm:

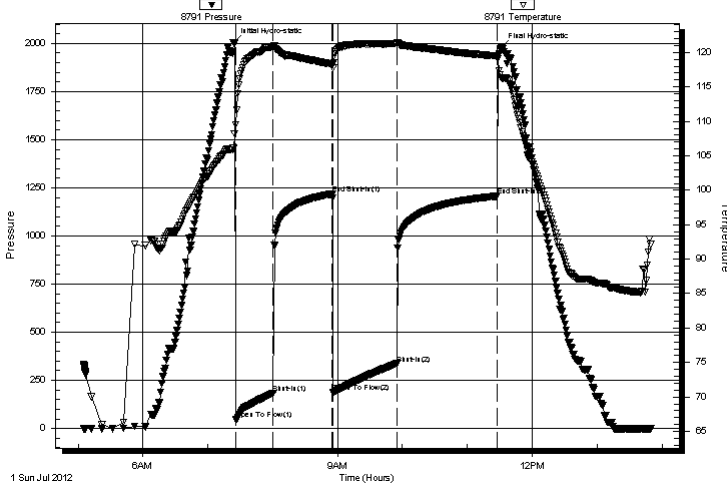
2012.07.01 @ 07:23:30

Time Off Btm:

2012.07.01 @ 11:31:30

TEST COMMENT: IF: Fair blow, Built to B.O.B in 11 mins.
IS: No blow back over 60 mins.
FF: Fair blow, Built to B.O.B in 12 mins.
FS: No blow back over 90 mins.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2005.18	106.09	Initial Hydro-static
2	48.02	109.50	Open To Flow (1)
37	183.83	120.82	Shut-In(1)
92	1218.36	118.28	End Shut-In(1)
93	187.55	117.80	Open To Flow (2)
151	336.92	121.28	Shut-In(2)
244	1206.75	119.47	End Shut-In(2)
248	1975.91	116.34	Final Hydro-static

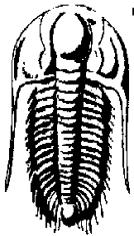
Recovery

Length (ft)	Description	Volume (bbl)
682.00	water-100%w	7.87
10.00	oil-100%o	0.14

* Recovery from multiple tests

Gas Rates

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



TRILLOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

31-4s-29w Decatur, KS

250 N. Water Ste. 300
Wichita KS 67202

Wasson #1-31

Job Ticket: 46096

DST#: 3

ATTN: Jeff Christenson

Test Start: 2012.07.01 @ 05:05:00

GENERAL INFORMATION:

Formation: **LKC-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:25:30

Time Test Ended: 13:49:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3968.00 ft (KB) To 3982.00 ft (KB) (TVD)

Total Depth: 3982.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2800.00 ft (KB)

2795.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8673 Outside

Press @RunDepth: psig @ 3969.00 ft (KB)

Start Date: 2012.07.01

End Date:

2012.07.01

Capacity: 8000.00 psig

Last Calib.:

2012.07.01

Start Time:

05:05:05

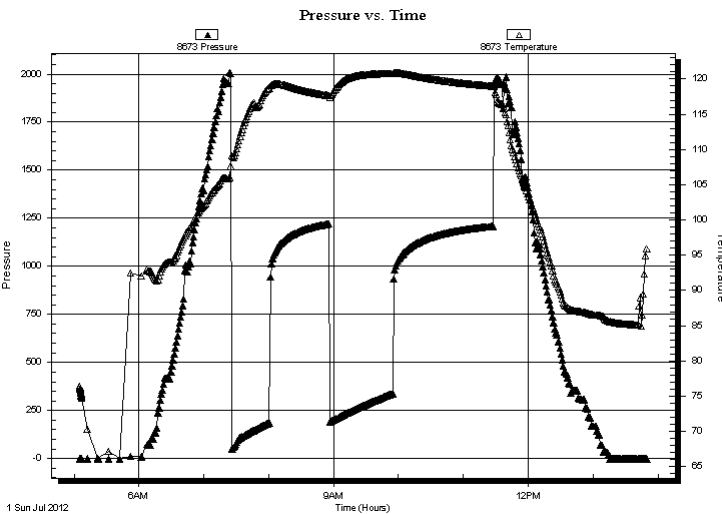
End Time:

13:49:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Fair blow, Built to B.O.B in 11 mins.
 IS: No blow back over 60 mins.
 FF: Fair blow, Built to B.O.B in 12 mns.
 FS: No blow back over 90 mins.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
682.00	water-100%w	7.87
10.00	oil-100%o	0.14

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 Co.

31-4s-29w Decatur,KS

250 N. Water Ste. 300
Wichita KS 67202

Wasson #1-31

Job Ticket: 46096

DST#: 3

ATTN: Jeff Christenson

Test Start: 2012.07.01 @ 05:05:00

Tool Information

Drill Pipe:	Length: 3764.00 ft	Diameter: 3.80 inches	Volume: 52.80 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 53.71 bbl</u>	Tool Chased 15.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3968.00 ft			Final 70000.00 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
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3945.00	
Hydraulic tool	5.00			3950.00	
Jars	5.00			3955.00	
Safety Joint	3.00			3958.00	
Packer	5.00			3963.00	28.00 Bottom Of Top Packer
Packer	5.00			3968.00	
Stubb	1.00			3969.00	
Recorder	0.00	8791	Inside	3969.00	
Recorder	0.00	8673	Outside	3969.00	
Perforations	10.00			3979.00	
Bullnose	3.00			3982.00	14.00 Bottom Packers & Anchor

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

31-4s-29w Decatur,KS

250 N. Water Ste. 300
Wichita KS 67202

Wasson #1-31

Job Ticket: 46096

DST#: 3

ATTN: Jeff Christenson

Test Start: 2012.07.01 @ 05:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

6000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
682.00	water-100%w	7.872
10.00	oil-100%o	0.140

Total Length: 692.00 ft

Total Volume: 8.012 bbl

Num Fluid Samples: 0

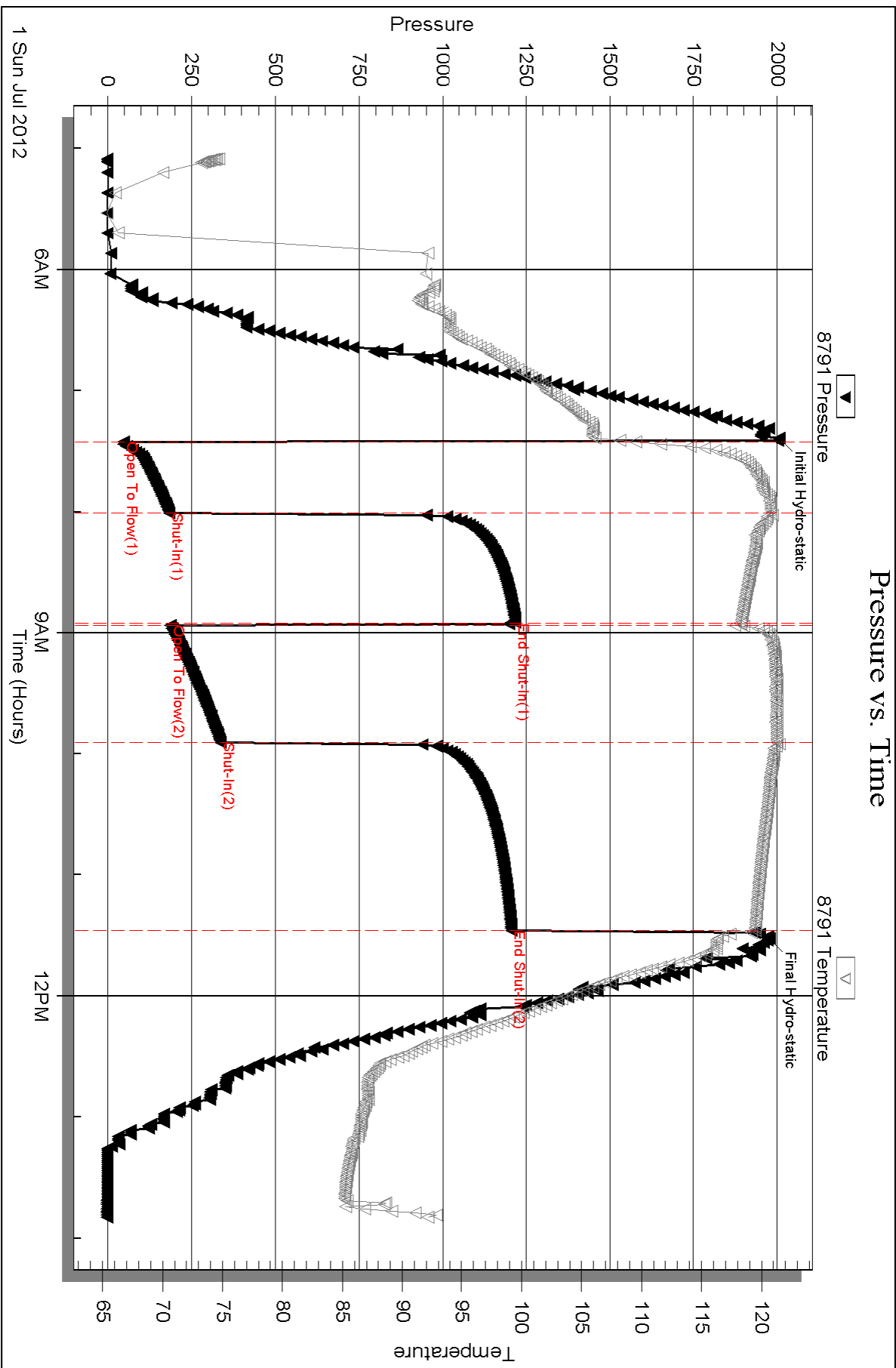
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

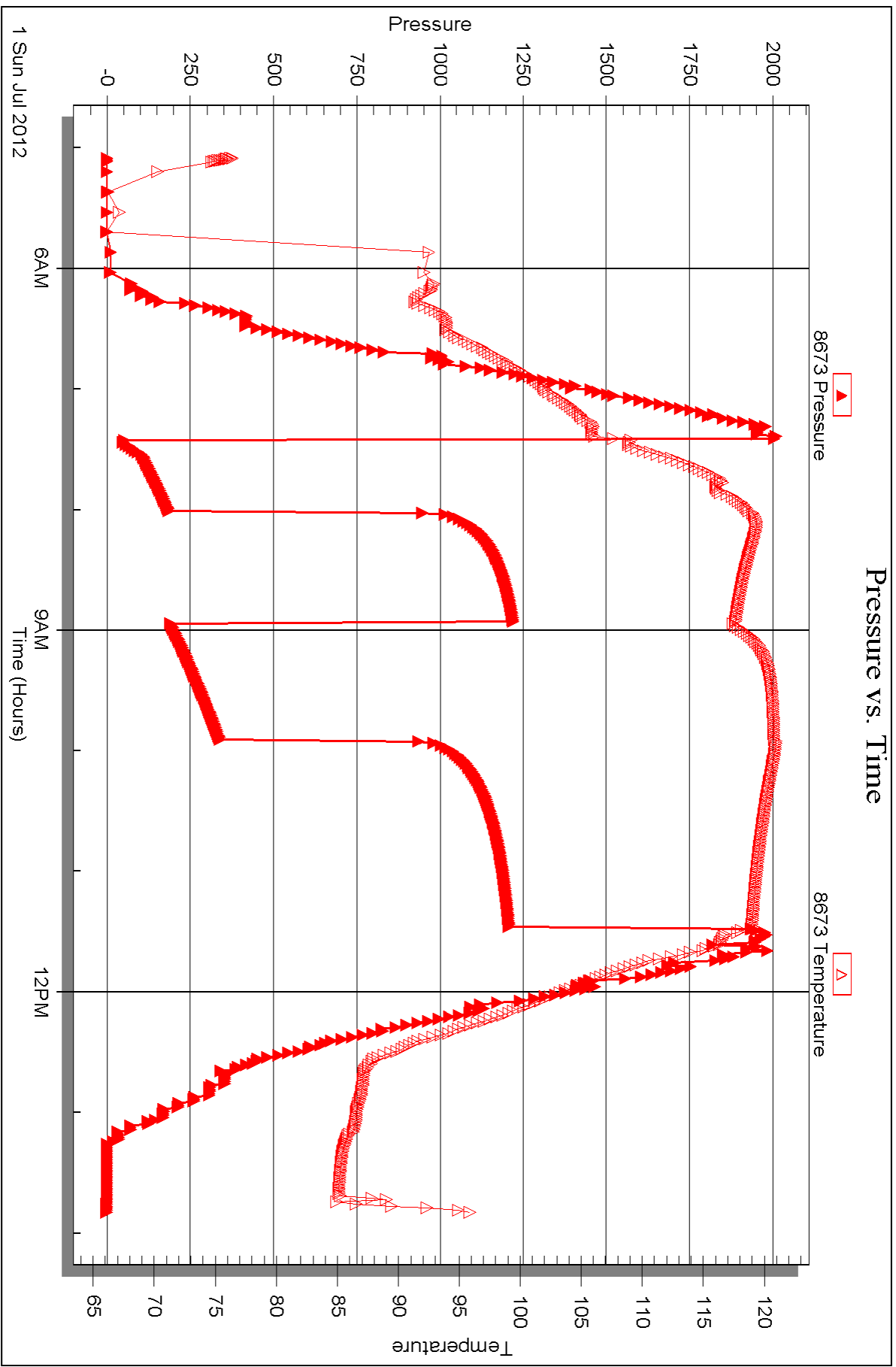


Serial #: 8673

Outside Murfin Drilling Co.

Masson #1-31

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Jeff Christenson

Wasson #1-31

31-4s-29w Decatur,KS

Start Date: 2012.07.02 @ 02:10:00

End Date: 2012.07.02 @ 10:46:00

Job Ticket #: 46097 DST #: 4

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

Printed: 2012.07.06 @ 15:00:15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

31-4s-29w Decatur, KS

250 N. Water Ste. 300
Wichita KS 67202

Wasson #1-31

Job Ticket: 46097

DST#: 4

ATTN: Jeff Christenson

Test Start: 2012.07.02 @ 02:10:00

GENERAL INFORMATION:

Formation: **LKC-H,I,J,K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:16:00

Time Test Ended: 10:46:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3984.00 ft (KB) To 4076.00 ft (KB) (TVD)

Reference Elevations: 2800.00 ft (KB)

Total Depth: 4076.00 ft (KB) (TVD)

2795.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 160.56 psig @ 3988.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.02

End Date:

2012.07.02

Last Calib.:

2012.07.02

Start Time: 02:10:05

End Time:

10:46:00

Time On Btm:

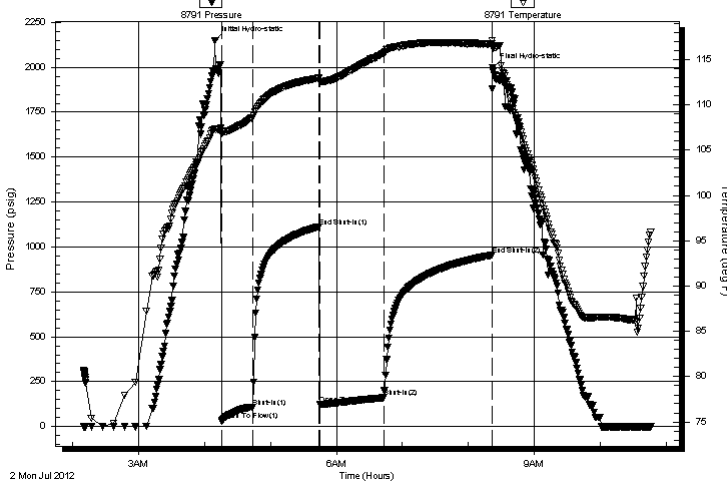
2012.07.02 @ 04:09:30

Time Off Btm:

2012.07.02 @ 08:22:00

TEST COMMENT: IF: Fair blow ,Built to B.O.B in 30 mins.
IS: No blow back over 60 mins.
FF: Weak blow , Built to 8 in. over 60 mins.
FS: No blow back over 90 mins.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.42	107.32	Initial Hydro-static
7	33.22	106.96	Open To Flow (1)
34	108.22	108.61	Shut-In(1)
94	1112.26	112.93	End Shut-In(1)
95	122.86	112.56	Open To Flow (2)
154	160.56	115.59	Shut-In(2)
252	954.10	116.75	End Shut-In(2)
253	1999.63	116.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	water-100%w	0.30
186.00	mcw -20% m80%w	1.48
20.00	oil-100%o	0.28

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

31-4s-29w Decatur, KS

250 N. Water Ste. 300
Wichita KS 67202

Wasson #1-31

Job Ticket: 46097

DST#: 4

ATTN: Jeff Christenson

Test Start: 2012.07.02 @ 02:10:00

GENERAL INFORMATION:

Formation: **LKC-H,I,J,K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:16:00

Time Test Ended: 10:46:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreutzer Jr.

Unit No: 61

Interval: 3984.00 ft (KB) To 4076.00 ft (KB) (TVD)

Reference Elevations: 2800.00 ft (KB)

Total Depth: 4076.00 ft (KB) (TVD)

2795.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8673 Outside

Press @ Run Depth: psig @ 3988.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.02

End Date:

2012.07.02

Last Calib.:

2012.07.02

Start Time:

02:10:05

End Time:

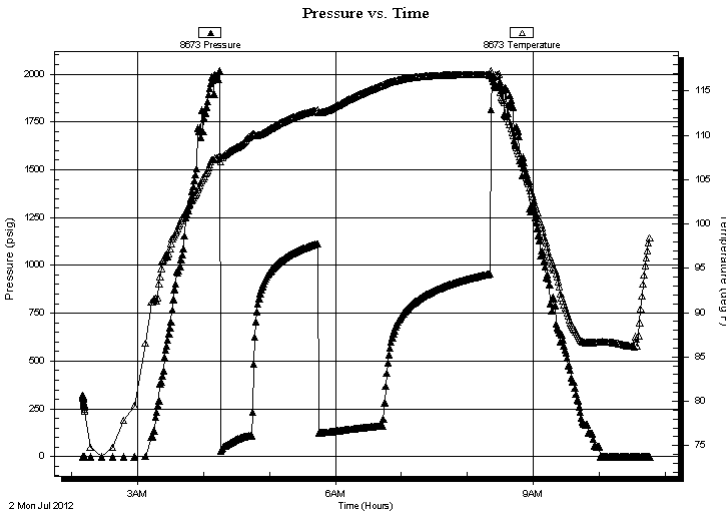
10:46:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Fair blow ,Built to B.O.B in 30 mins.
IS: No blow back over 60 mins.
FF: Weak blow , Built to 8 in. over 60 mins.
FS: No blow back over 90 mins.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	water-100%w	0.30
186.00	mcw -20% m80%w	1.48
20.00	oil-100%o	0.28

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 Co.

31-4s-29w Decatur,KS

250 N. Water Ste. 300
Wichita KS 67202

Wasson #1-31

Job Ticket: 46097

DST#: 4

ATTN: Jeff Christenson

Test Start: 2012.07.02 @ 02:10:00

Tool Information

Drill Pipe:	Length: 3793.00 ft	Diameter: 3.80 inches	Volume: 53.21 bbl	Tool Weight:	2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 54.12 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3984.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	92.00 ft				
Tool Length:	120.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3961.00	
Hydraulic tool	5.00			3966.00	
Jars	5.00			3971.00	
Safety Joint	3.00			3974.00	
Packer	5.00			3979.00	28.00 Bottom Of Top Packer
Packer	5.00			3984.00	
Stubb	1.00			3985.00	
Perforations	1.00			3986.00	
Change Over Sub	2.00			3988.00	
Recorder	0.00	8791	Inside	3988.00	
Recorder	0.00	8673	Outside	3988.00	
Drill Pipe	64.00			4052.00	
Change Over Sub	1.00			4053.00	
Perforations	20.00			4073.00	
Bullnose	3.00			4076.00	92.00 Bottom Packers & Anchor

Total Tool Length: 120.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

31-4s-29w Decatur,KS

250 N. Water Ste. 300
Wichita KS 67202

Wasson #1-31

Job Ticket: 46097

DST#: 4

ATTN: Jeff Christenson

Test Start: 2012.07.02 @ 02:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	water-100%w	0.305
186.00	mcw -20%m80%w	1.480
20.00	oil-100%o	0.281

Total Length: 268.00 ft Total Volume: 2.066 bbl

Num Fluid Samples: 0

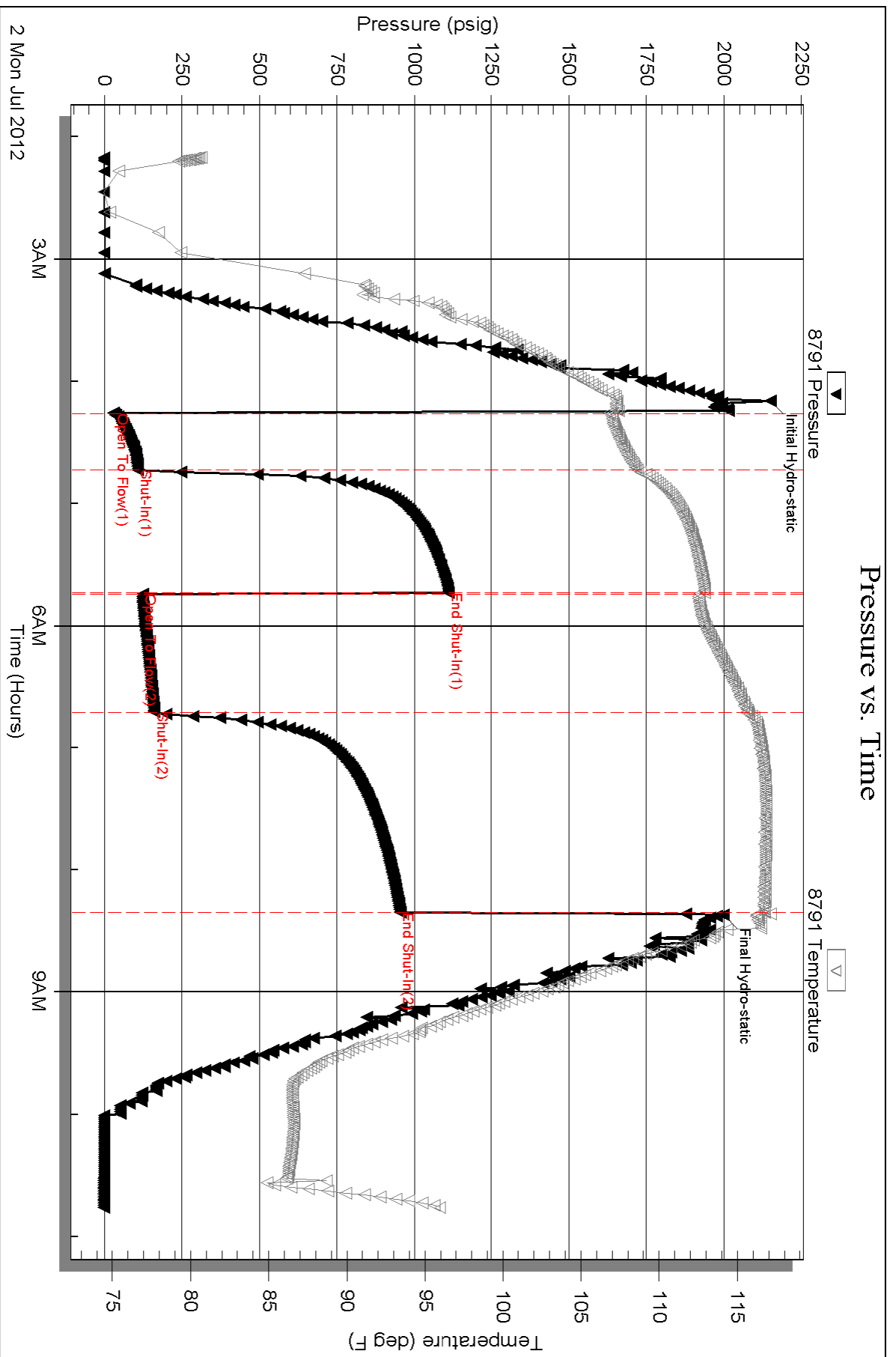
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

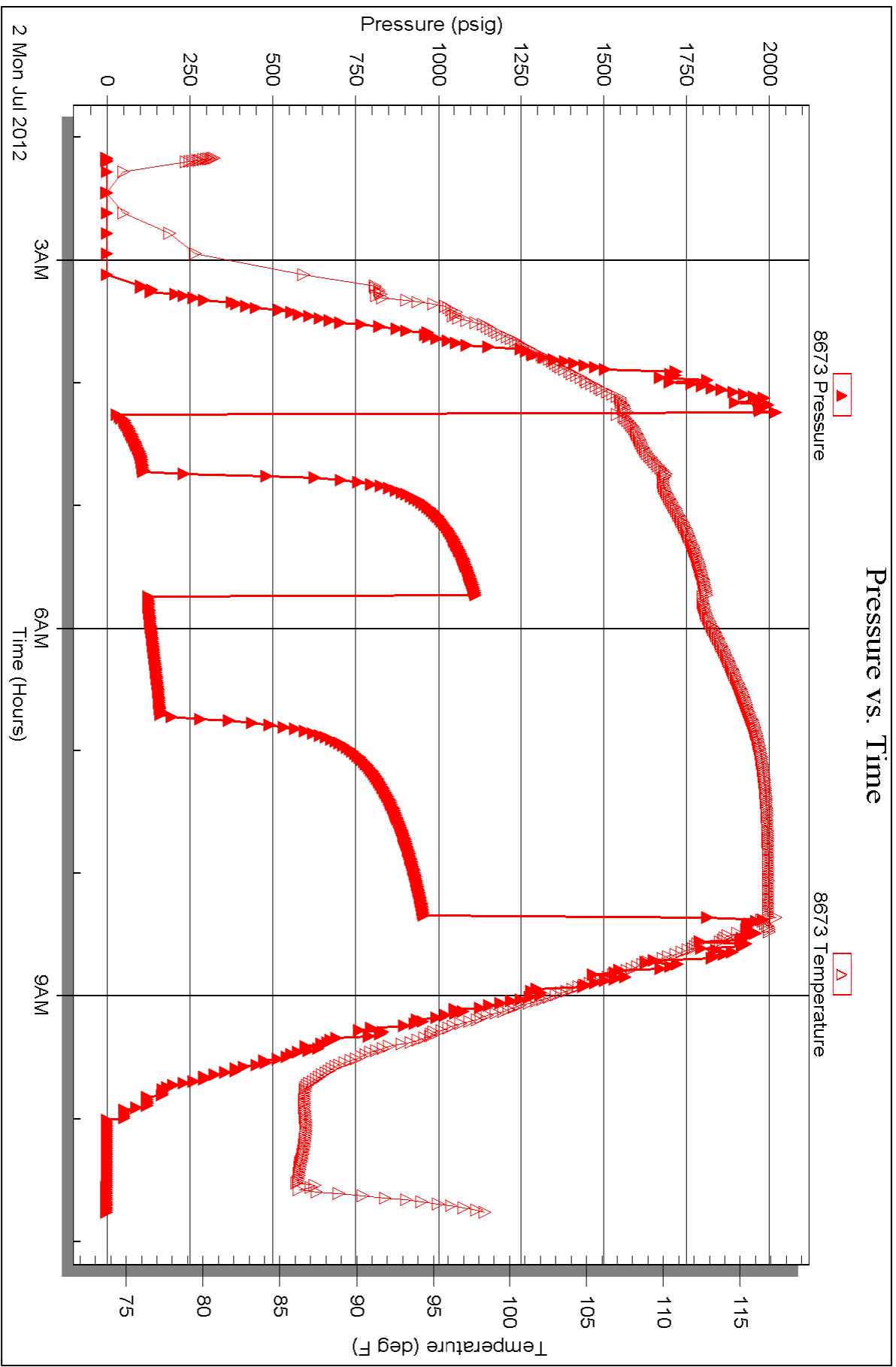


Serial #: 8673

Outside Murfin Drilling Co.

Masson #1-31

DST Test Number: 4





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. **46094**

4/10

Well Name & No. Wasson #1-31 Test No. 1 Date 6-29-2012
 Company Murfin Drilling Co. Elevation 2800 KB 2795 GL
 Address 250 N. Water Ste. 300 Wichita KS 67202
 Co. Rep / Geo. Jeff Christenson Rig Murfin #8
 Location: Sec. 31 Twp. 4S Rge. 29W Co. Decatur State Ks.

Interval Tested 3882 3926 Zone Tested LKC-AEB
 Anchor Length 44 Drill Pipe Run 3699 Mud Wt. 9.2
 Top Packer Depth 3877 Drill Collars Run 186 Vis 54
 Bottom Packer Depth 3882 Wt. Pipe Run -0- WL 6.0
 Total Depth 3926 Chlorides 1,000 ppm System LCM 5#

Blow Description IF: Weak surface Blow, Diced in 3mins.
ISI: No blow back over 60 mins.
FF: No blow over 30
FSI: No blow back over 60 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 113 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2045</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>19:50</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>21:30</u>
(C) First Final Flow <u>16</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>00:15</u>
(D) Initial Shut-In <u>968</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>3:15</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>5:06</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>2012 = 40 x 1.55</u> 62	Comments _____
(G) Final Shut-In <u>836</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1812</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>30</u>	<input type="checkbox"/> Extra Recorder	Total <u>1537</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1537</u>	

Approved By _____ Our Representative Chuk [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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46095

Well Name & No. Wasson #1-31 Test No. 2 Date 6-30-2012
 Company Murfin Drilling Co. Elevation 2800 KB 2795 GL
 Address 250 N. Water Ste 300 Wichita KS. 67202
 Co. Rep / Geo. Jeff Christinson Rig Murfin#8
 Location: Sec. 31 Twp. 45 Rge. 29w Co. Decatur State KS

Interval Tested 3940 3970 Zone Tested LKC-F
 Anchor Length 30 Drill Pipe Run 3731 Mud Wt. 9.1
 Top Packer Depth 3935 Drill Collars Run 186 Vis 60
 Bottom Packer Depth 3940 Wt. Pipe Run -0- WL 6.0
 Total Depth 3970 Chlorides 1,000 ppm System LCM 5#

Blow Description IF: Pushed tool 36ft to Bottom, Tool opened, weak blow, Built to 1/4 in.
ISF: No blow back over 60 mins
FF: weak blow, Built to 3 in. over 60 mins
FSI: No blow back over 90 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>90</u>	<u>10</u>	<u>90</u>		
<u>60</u>	<u>GMCO</u>	<u>5</u>	<u>70</u>		<u>25</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 100 BHT 114 Gravity 31 API RW 40023 @ °F Chlorides ppm

(A) Initial Hydrostatic	<u>2203</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>13:30</u>
(B) First Initial Flow	<u>18</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>14:15</u>
(C) First Final Flow	<u>29</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>16:18</u>
(D) Initial Shut-In	<u>1158</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>20:10</u>
(E) Second Initial Flow	<u>38</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>22:08</u>
(F) Second Final Flow	<u>51</u>	<input checked="" type="checkbox"/> Mileage	<u>20x2 = 40x1.55</u> 62	Comments	<u>Not stacked out 86 ft from Bottom. Worked the next 30 min pushing it to Bottom</u>
(G) Final Shut-In	<u>1051</u>	<input type="checkbox"/> Sampler		<input type="checkbox"/> Ruined Shale Packer	
(H) Final Hydrostatic	<u>1978</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Packer	
Initial Open	<u>30</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Flow	<u>60</u>	<input type="checkbox"/> Day Standby		Total	<u>1537</u>
Final Shut-In	<u>90</u>	<input type="checkbox"/> Accessibility		MP/DST Disc't	
Sub Total			<u>1537</u>		

Approved By _____

Our Representative Chuck [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 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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46096

Well Name & No. Wasson #1-31 Test No. 3 Date 7-1-2012
 Company MurFin Drilling Co. Elevation 2800 KB 2295 GL
 Address 250 N. water Ste. 300 Wichita Ks. 67202
 Co. Rep / Geo. Jeff Christinson Rig MurFin #8
 Location: Sec. 31 Twp. 4S Rge. 29W Co. Decatur State KS

Interval Tested 3968 3982 Zone Tested LKC - G
 Anchor Length 14 Drill Pipe Run 3264 Mud Wt. 9.1
 Top Packer Depth 3963 Drill Collars Run 186 Vis 60
 Bottom Packer Depth 3968 Wt. Pipe Run -0- WL 6.0
 Total Depth 3982 Chlorides 1,000 ppm System LCM 5#

Blow Description IF: Fair blow, Built to B.O.B in 11mins.

ISI: No blow back over 60mins.

FF: Fair blow, Built to B.O.B in 12mins.

FSI: No blow back over 90mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>oil</u>		<u>100</u>		
<u>682</u>	<u>water</u>			<u>100</u>	

Rec Total 692 BHT 119 Gravity _____ API RW .08 @ 90 ° F Chlorides 6000 ppm

(A) Initial Hydrostatic 2005 Test 1150 T-On Location 5:00
 (B) First Initial Flow 48 Jars 250 T-Started 5:05
 (C) First Final Flow 184 Safety Joint 75 T-Open 7:25
 (D) Initial Shut-In 1218 Circ Sub _____ T-Pulled 11:25
 (E) Second Initial Flow 188 Hourly Standby _____ T-Out 13:49
 (F) Second Final Flow 337 Mileage 20x2 = 40x1.55 62 Comments _____
 (G) Final Shut-In 1207 Sampler _____
 (H) Final Hydrostatic 1976 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1537
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1537

Approved By _____

Our Representative Chuck [Signature]

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RILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. **46097**

Well Name & No. Wasson #1-31 Test No. 4 Date 7-2-2012
 Company Murfin Drilling Co. Elevation 2800 KB 2795 GL
 Address 250 N. Water Ste. 300 Wichita KS 67202
 Co. Rep / Geo. Jeff Christanson Rig Murfin #8
 Location: Sec. 31 Twp. 45 Rge. 24W Co. Decatur State Ks.

Interval Tested 3984 4076 Zone Tested H-I, J, K
 Anchor Length 92 Drill Pipe Run 3793 Mud Wt. 9.2
 Top Packer Depth 3979 Drill Collars Run 187 Vis 60
 Bottom Packer Depth 3984 Wt. Pipe Run - 0' WL 5.2
 Total Depth 4076 Chlorides 1000 ppm System LCM 5#

Blow Description IF: ^{fair} weak blow, Built to B.OB in 30 mins.
ISE: No blow back over 60 mins.
FFB: Weak blow, Built to 8in. over 60 mins.
FST: No blow back over 90 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>oil</u>		<u>100%</u>		
<u>186</u>	<u>MCW</u>			<u>80%</u>	<u>20</u>
<u>62</u>	<u>water water</u>			<u>100%</u>	

Rec Total 268 BHT 116 Gravity _____ API RW .8 @ 90 °F Chlorides 6000 ppm

(A) Initial Hydrostatic <u>2149</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>2:05</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>2:10</u>
(C) First Final Flow <u>108</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>4:16</u>
(D) Initial Shut-In <u>1112</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>8:15</u>
(E) Second Initial Flow <u>123</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:46</u>
(F) Second Final Flow <u>161</u>	<input checked="" type="checkbox"/> Mileage <u>20x2 = 40x1.55 x 2 = 124</u>	Comments <u>Loaded to oil 5 on 7-4-2012 at 7:30 AM</u>
(G) Final Shut-In <u>954</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2000</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>800</u>
Final Flow <u>60</u>	<input checked="" type="checkbox"/> Day Standby <u>1 Day 21 Hrs.</u>	Total <u>2499</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1699</u>	

Approved By _____ Our Representative Chuck Kays

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.



acct.
Prod-Sight

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 131709

Invoice Date: Jun 25, 2012

Page: 1

Voice: (817) 546-7282

Fax: (817) 246-3361

Bill To:
Murfin Drlg. Co., Inc.
*PO Box 6661
Colby, KS 67701*

OPERATOR PAY MDC
LEASE: BM



Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Wasson #1-31	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jun 25, 2012	7/25/12

Quantity	Item	Description	Unit Price	Amount
185.00	MAT	Class A Common	16.25	3,006.25
7.00	MAT	Chloride	58.20	407.40
194.26	SER	Handling	2.10	407.95
403.20	SER	Ton Miles	2.35	947.52
1.00	SER	Surface	1,125.00	1,125.00
45.00	SER	Heavy Vehicle Mileage	7.00	315.00
45.00	SER	Light Vehicle Mileage	4.00	180.00
1.00	SER	Manifold Swedge Rental	325.00	325.00
1.00	CEMENTER	LaRene Wentz		
1.00	CEMENTER	Terry Heinrich		
1.00	OPER ASSIST	Ethan Glassman		

Handwritten signature

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

\$2349.94

ONLY IF PAID ON OR BEFORE
Jul 20, 2012

Subtotal	6,714.12
Sales Tax	249.20
Total Invoice Amount	6,963.32
Payment/Credit Applied	
TOTAL	6,963.32

Handwritten signature

ALLIED CEMENTING CO., LLC. 034508

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Dakley, KS

DATE <u>6-25-12</u>	SEC. <u>31</u>	TWP. <u>4</u>	RANGE <u>29</u>	CALLED OUT	ON LOCATION <u>4:30 pm</u>	JOB START <u>6:00 pm</u>	JOB FINISH <u>6:50 pm</u>
LEASEE <u>Wasson</u>	WELL# <u>1-31</u>	LOCATION <u>Selden 4th, 2nd, 22, 1st</u>			COUNTY <u>Decatur</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>W</u>							

CONTRACTOR Merrifield #8
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4" T.D. 220'
 CASING SIZE 8 7/8" DEPTH 220'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 13.12

OWNER Jamo
 CEMENT AMOUNT ORDERED 185 5/8 cement 32500

EQUIPMENT
 PUMP TRUCK # 422 CEMENTER Lakene Wentz
 HELPER Terry Hedrick
 BULK TRUCK # 409 DRIVER Ethan Glassman
 BULK TRUCK # _____ DRIVER _____

COMMON 185 5/8 @ 16.25 3006.25
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE 2 250 @ 58.20 407.90
 ASC _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING 198.26 873 @ 2.10 407.75
 MILEAGE 896 hrs @ 45 22.32 997.52
 TOTAL 4762.12

REMARKS:
mix 185 5/8 cement
Displacement with water
remmit did circulate
Thank you

CHARGE TO: Merrifield Drilling Co
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE
 DEPTH OF JOB 220'
 PUMP TRUCK CHARGE _____ 1125.00
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 45 @ 7.00 315.00
 MANIFOLD swedge @ 325.00
Lid. mileage @ 400 180.00
 _____ @ _____
 TOTAL 1945.00

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

PLUG & FLOAT EQUIPMENT
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL _____

PRINTED NAME Rodney Parr
 SIGNATURE Rodney Parr

SALES TAX (if Any) _____
 TOTAL CHARGES 6,714.12
 DISCOUNT _____ IF PAID IN 30 DAYS

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 131798

Invoice Date: Jul 4, 2012

Voice: (817) 546-7282

Page: 1

Fax: (817) 246-3361



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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	Wasson #1-31	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jul 4, 2012	8/3/12

Quantity	Item	Description	Unit Price	Amount
147.00	MAT	Class A Common	16.25	2,388.75
98.00	MAT	Pozmix	8.50	833.00
8.00	MAT	Gel	21.25	170.00
61.00	MAT	Flo Seal	2.70	164.70
263.13	SER	Cubic Feet	2.10	552.57
476.41	SER	Ton Miles	2.35	1,119.56
1.00	SER	Plug to Abandon	1,250.00	1,250.00
45.00	SER	Pump truck Mileage	7.00	315.00
45.00	SER	Light Vehicle Mileage	4.00	180.00
1.00	EQP	8.5/8 Dry Hole Plug	92.00	92.00
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Dane Retzloff		
1.00	OPER ASSIST	Adam Holcomb		

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

\$ 2472.95

ONLY IF PAID ON OR BEFORE
Jul 29, 2012

Subtotal	7,065.58
Sales Tax	515.79
Total Invoice Amount	7,581.37
Payment/Credit Applied	
TOTAL	7,581.37

01/11/12

ALLIED OIL & GAS SERVICES, LLC 056300

Federal Tax I.D.# 20-5976804

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

SERVICE POINT:
Oakley

DATE <u>2-4-12</u>	SEC <u>31</u>	TWP <u>4</u>	RANGE <u>29</u>	CALLED OUT	ON LOCATION	JOB START <u>10:00am</u>	JOB FINISH <u>11:30am 7-4</u>
LEASE <u>Wasson</u>	WELL # <u>1231</u>	LOCATION <u>Selden 4W 9N 2E</u>		COUNTY <u>DeCATUR</u>	STATE <u>Ks</u>		
OLD OR <u>NB</u> W (Circle one)		<u>1 1/2 N Winto</u>				<u>103</u>	<u>1,300</u>

CONTRACTOR Murfin & OWNER Same

TYPE OF JOB PTA

HOLE SIZE 2 7/8 T.D. 4509'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 4445'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOBJOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

CEMENT

AMOUNT ORDERED 245.5 SKS 6042 4896L

1/4 Flo-seal

COMMON	<u>147 SKS</u>	@	<u>16.25</u>	<u>2388.75</u>
POZMIX	<u>98 SKS</u>	@	<u>8.50</u>	<u>833.00</u>
GEL	<u>8 SKS</u>	@	<u>21.25</u>	<u>170.00</u>
CHLORIDE		@		
ASC		@		
		@		
		@		
		@		
<u>Flo-seal</u>	<u>61#</u>	@	<u>2.70</u>	<u>164.70</u>
		@		
		@		
		@		
		@		

EQUIPMENT

PUMP TRUCK CEMENTER Andrew Forstner

431 HELPER Dane Kefeloff

BULK TRUCK _____

347 DRIVER Adam Holcomb

BULK TRUCK _____

_____ DRIVER _____

HANDLING 263.12904/1210 532157

MILEAGE 2.35 709/bull 12.582700 1119157

TOTAL: ~~6771.09~~
5228.59

476.41

REMARKS:

25.5 SKS @ 4445'

25.5 SKS @ 2865'

100.5 SKS @ 1820'

40.5 SKS @ 320'

10.5 SKS @ 40'

15.5 SKS mouse hole

30.5 SKS Rat hole

CHARGE TO: Murfin

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 4445'

PUMP TRUCK CHARG. 1250.00

EXTRA FOOTAGE @ _____

MILEAGE 45 miles @ 7.00 315.00

MANIFOLD @ _____

light vehicle @ 4.00 180.00

TOTAL 1745.00

To: Allied Oil & Gas Services, LLC.

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

PLUG & FLOAT EQUIPMENT

878

1 Dry hole plug @ 92.00

TOTAL 92.00

PRINTED NAME Rodney Fair

SIGNATURE Rodney Fair

SALES TAX (If Any) 515.78

TOTAL CHARGES ~~2677.99~~ 7065.59

DISCOUNT 35 2472.95 IF PAID IN 30 DAYS