



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1187143
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: _____

1187143

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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MDCI Walter #3-1 330' FNL 330' FEL Sec. 1-T1S-R36W 3229' KB							MDCI Walter #2-1 330' FNL 1360' FEL Sec. 1-T1S-R36W 3117' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3155	+74	+4	3154	+75	+5	3047	+70
B/Anhydrite	3191	+38	+3	3193	+36	+1	3082	+35
Neva				3646	-417	+1	3535	-418
Red Eagle	3709	-480	Flat	3709	-480	Flat	3597	-480
Foraker	3757	-528	-1	3756	-527	Flat	3644	-527
Topeka	3963	-734	+1	3964	-735	Flat	3852	-735
Oread	4073	-844	+1	4077	-848	-3	3962	-845
Lansing	4176	-947	+2	4179	-950	-1	4066	-949
Stark	4389	-1160	Flat	4389	-1160	Flat	4277	-1160
BKC	4440	-1211	+3	4444	-1215	-1	4331	-1214
Pawnee							DNR	
Cherokee							DNR	
RTD	4500						4432	-1315
LTD				4502	-1273		4430	-1313

KEVIN L. KESSLER

CONSULTING PETROLEUM GEOLOGIST

(316) 522-7338

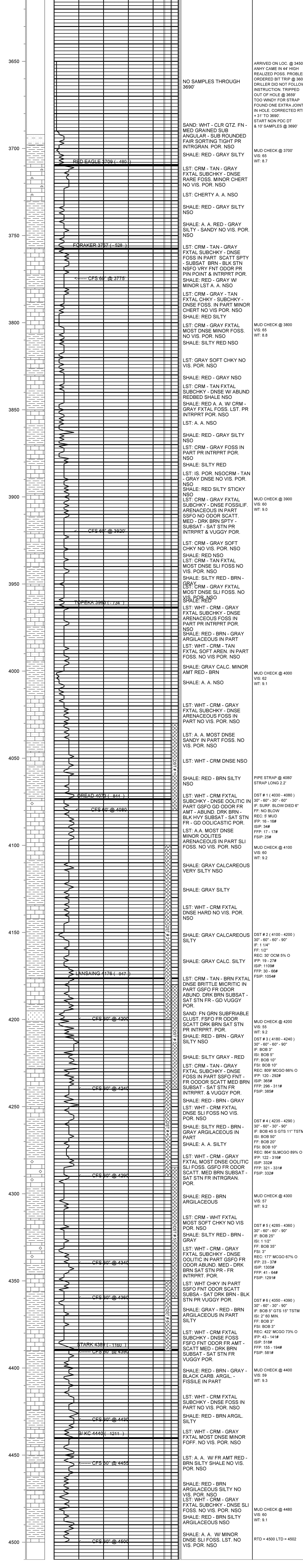
OPERATOR : MURFIN DRILLING COMPANY INC.	ELEVATION
LEASE : WALTER	KB : 3229
WELL # : 3 - 1	GL : 3218
LOCATION : 330' FNL & 330' FEL	MEASUREMENTS FROM
SEC: 01	KB
TWP : 01 S	CASING RECORD
RGE : 36 W	SURFACE :
STATE : KANSAS	8 5/8" @ 265'
	PRODUCTION :
	5 1/2" @ 4500'
	ELECTRICAL SURVEYS:
	CDL/CNL
	DIL
	MICRO
	SONIC

CONTRACTOR : MURFIN DRILLING RIG # 2	COMP : 10 / 17 / 2013	
COMM : 10 / 09 / 2013	LOG TD : 4502	
RTD : 4500	TO : RTD	
SAMPLES SAVED FROM : 3650	TO : RTD	
GEOLOGICAL SUPERVISION FROM : 3650	TYPE MUD : CHEMICAL	
MUD UP : 3400		

FORMATION	TOP	SAMPLE	DATUM	TOP	LOG	DATUM	STRUCT. COMP.
RED EAGLE	3709		- 480	3710		- 481	- 01
FORAKER	3757		- 528	3756		- 527	Flat
TOPEKA	3963		- 734	3964		- 735	Flat
LANSING	4176		- 947	4180		- 951	- 02
STARK	4389		- 1160	4394		- 1165	- 05
BASE / KC	4440		- 1211	4444		- 1215	- 01

REFERENCE WELL FOR STRUCTURAL COMPARISON :

MURFIN DRILLING # 2 - 1 WALTER SEC 01 - T 01 S - R 36 W RAWLINS COUNTY KANSAS



COMMENTS:

5 1/2" PRODUCTION CASING WAS SET TO

FURTHER EVALUATE THE PRODUCTIVITY OF THIS WELL

KEVIN L. KESSLER



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Walter #3-1

1-1s-36w Rawlins,KS

Start Date: 2013.10.12 @ 22:11:15

End Date: 2013.10.13 @ 05:10:15

Job Ticket #: 54950 DST #: 1

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

Printed: 2013.10.18 @ 13:18:44

Murfin Drilling Co Inc
1-1s-36w Rawlins,KS
Walter #3-1
DST # 1
Oread
2013.10.12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 54950

DST#: 1

ATTN: Kevin Kessler

Test Start: 2013.10.12 @ 22:11:15

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:12:45

Time Test Ended: 05:10:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

Interval: 4030.00 ft (KB) To 4080.00 ft (KB) (TVD)

Reference Elevations: 3237.00 ft (KB)

Total Depth: 4080.00 ft (KB) (TVD)

3227.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8373

Inside

Press @ Run Depth: 17.92 psig @ 4031.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.12

End Date:

2013.10.13

Last Calib.: 2013.10.13

Start Time: 22:11:20

End Time:

05:10:14

Time On Btm: 2013.10.13 @ 00:11:15

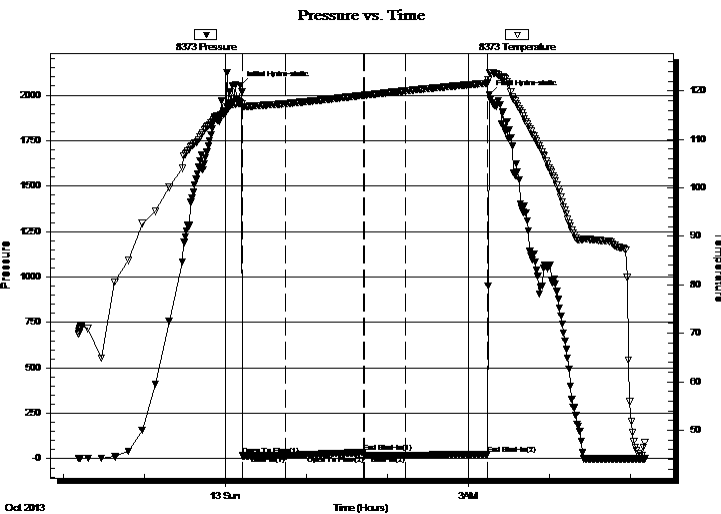
Time Off Btm: 2013.10.13 @ 03:15:15

TEST COMMENT: IF: Surface blow died in 6 min.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2052.94	117.45	Initial Hydro-static
2	16.95	116.74	Open To Flow (1)
33	16.86	117.36	Shut-In(1)
91	34.42	119.07	End Shut-In(1)
92	17.33	119.07	Open To Flow (2)
122	17.92	120.00	Shut-In(2)
183	25.75	121.58	End Shut-In(2)
184	2001.39	123.81	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 Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 54950

DST#: 1

ATTN: Kevin Kessler

Test Start: 2013.10.12 @ 22:11:15

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:12:45

Time Test Ended: 05:10:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

Interval: 4030.00 ft (KB) To 4080.00 ft (KB) (TVD)

Reference Elevations: 3237.00 ft (KB)

Total Depth: 4080.00 ft (KB) (TVD)

3227.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8356 Outside

Press @ RunDepth: psig @ 4031.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.12

End Date:

2013.10.13

Last Calib.:

2013.10.13

Start Time: 22:11:20

End Time:

05:10:14

Time On Btm:

Time Off Btm:

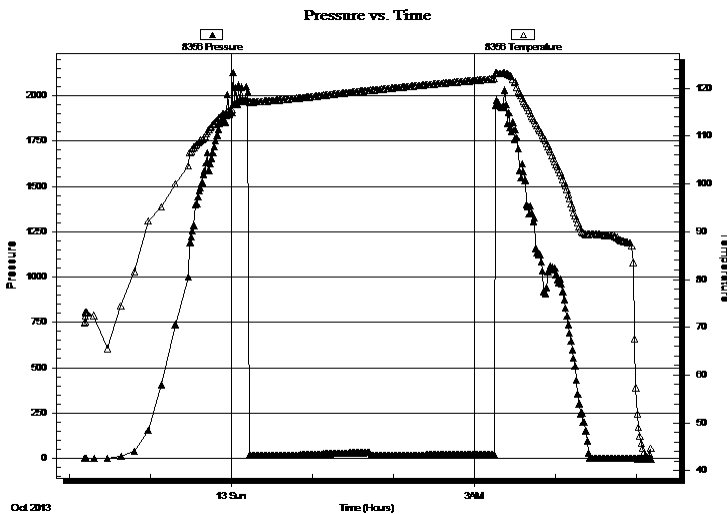
TEST COMMENT: IF: Surface blow died in 6 min.

IS: No return.

FF: No blow.

FS: No return.

PRESSURE SUMMARY



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

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

TOOL DIAGRAM

Murfin Drilling Co Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 54950

DST#: 1

ATTN: Kevin Kessler

Test Start: 2013.10.12 @ 22:11:15

Tool Information

Drill Pipe:	Length: 3782.00 ft	Diameter: 3.80 inches	Volume: 53.05 bbl	Tool Weight:	2000.00 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: 234.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 54.20 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4030.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	78.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4003.00	
Shut In Tool	5.00			4008.00	
Hydraulic tool	5.00			4013.00	
Jars	5.00			4018.00	
Safety Joint	3.00			4021.00	
Packer	5.00			4026.00	28.00 Bottom Of Top Packer
Packer	4.00			4030.00	
Stubb	1.00			4031.00	
Recorder	0.00	8373	Inside	4031.00	
Recorder	0.00	8356	Outside	4031.00	
Perforations	10.00			4041.00	
Change Over Sub	1.00			4042.00	
Drill Pipe	32.00			4074.00	
Change Over Sub	1.00			4075.00	
Bullnose	5.00			4080.00	50.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 54950

DST#: 1

ATTN: Kevin Kessler

Test Start: 2013.10.12 @ 22:11:15

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:

0 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 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

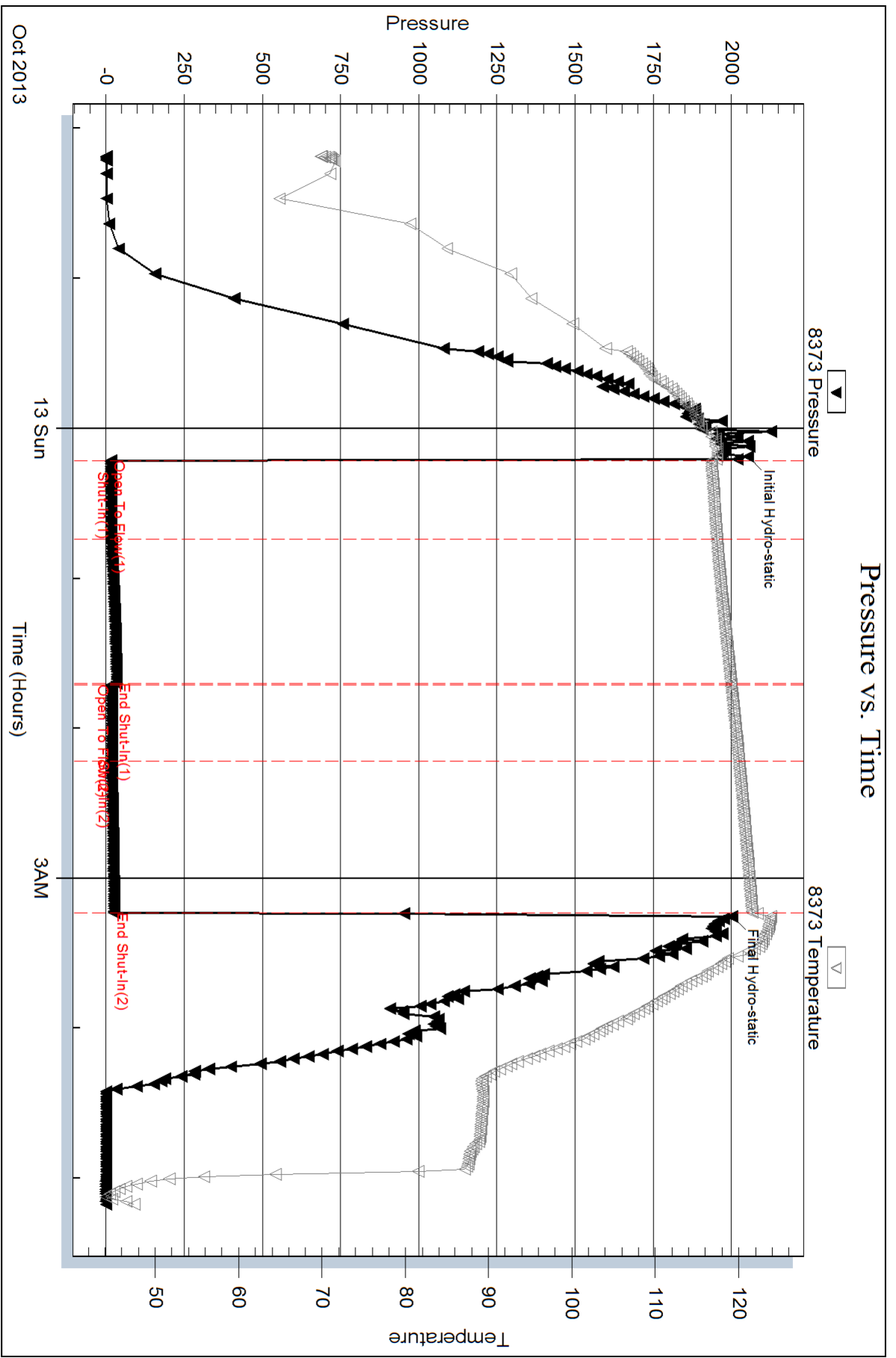
Num Gas Bombs: 0

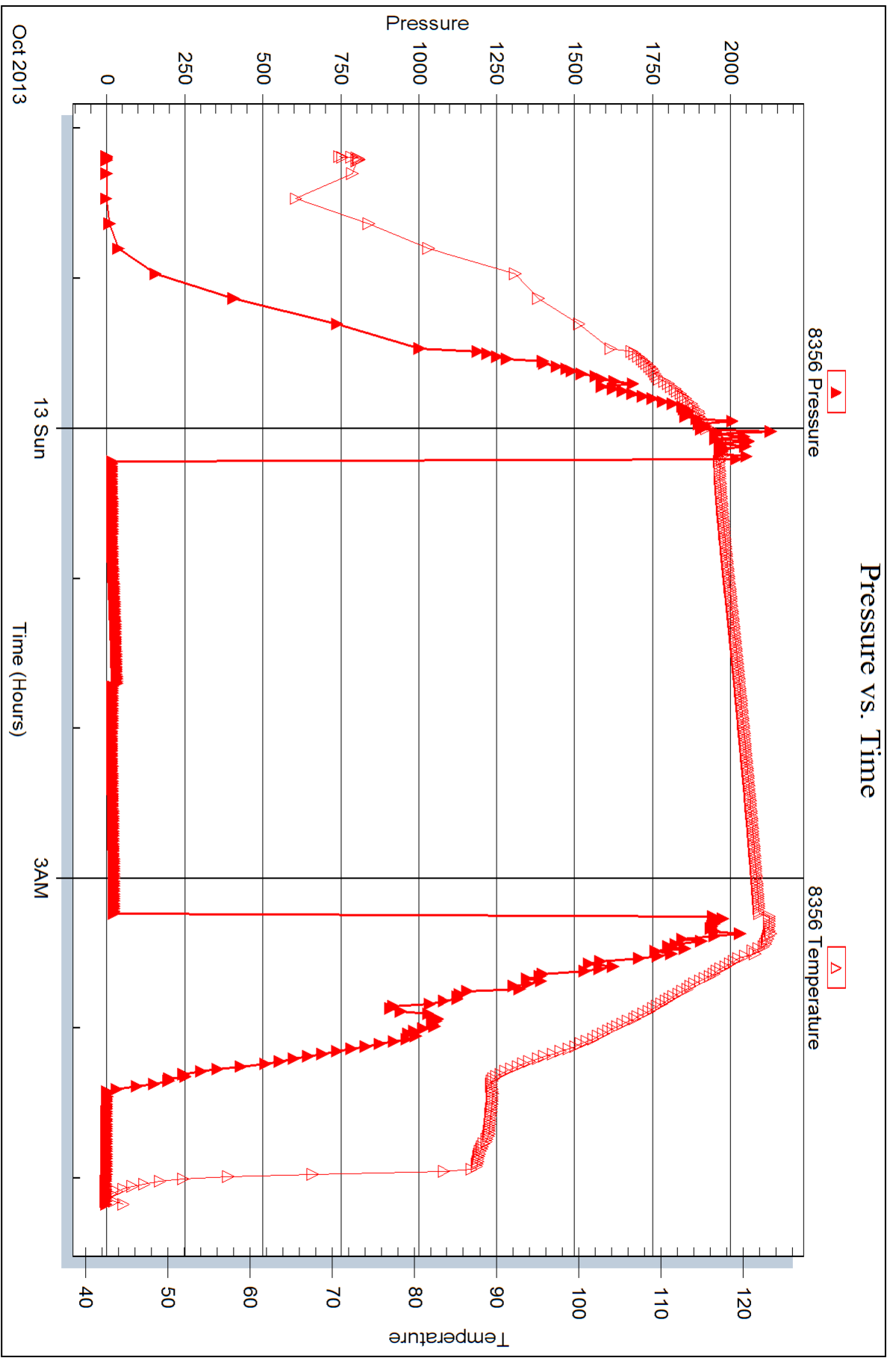
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Walter #3-1

1-1s-36w Rawlins,KS

Start Date: 2013.10.13 @ 17:22:31

End Date: 2013.10.14 @ 01:11:01

Job Ticket #: 54951 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.18 @ 13:18:19



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 54951

DST#: 2

ATTN: Kevin Kessler

Test Start: 2013.10.13 @ 17:22:31

GENERAL INFORMATION:

Formation: **LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:23:01

Time Test Ended: 01:11:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4100.00 ft (KB) To 4200.00 ft (KB) (TVD)

Reference Elevations: 3237.00 ft (KB)

Total Depth: 4200.00 ft (KB) (TVD)

3227.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8373 Inside

Press @ Run Depth: 66.33 psig @ 4101.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.13

End Date:

2013.10.14

Last Calib.: 2013.10.14

Start Time: 17:22:36

End Time:

01:11:00

Time On Btm: 2013.10.13 @ 19:21:01

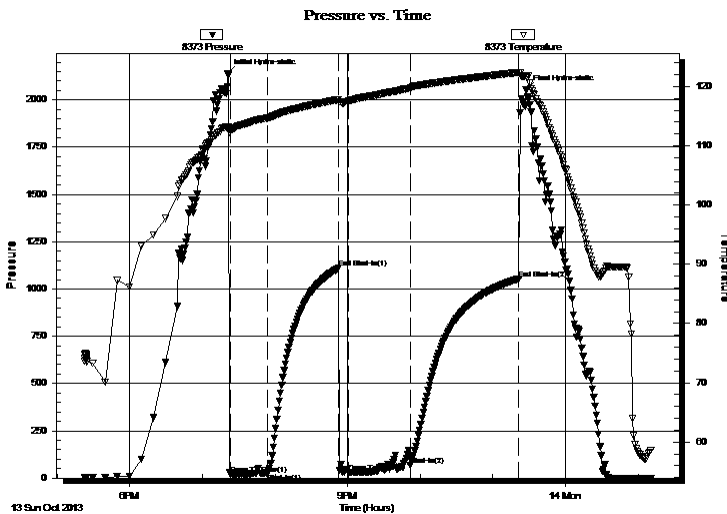
Time Off Btm: 2013.10.13 @ 23:27:31

TEST COMMENT: IF: Surface blow built to 1 1/4"

IS: No return.

FF: Surface blow built to 1/2"

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.73	113.21	Initial Hydro-static
2	19.89	112.81	Open To Flow (1)
33	27.07	114.69	Shut-In(1)
92	1109.99	117.81	End Shut-In(1)
100	30.61	117.55	Open To Flow (2)
151	66.33	119.70	Shut-In(2)
241	1054.83	122.39	End Shut-In(2)
247	2052.85	121.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 5%o 95%m	0.15

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N Water ste 300
 Wichita, KS 67202
 ATTN: Kevin Kessler

1-1s-36w Rawlins,KS
Walter #3-1
 Job Ticket: 54951 **DST#: 2**
 Test Start: 2013.10.13 @ 17:22:31

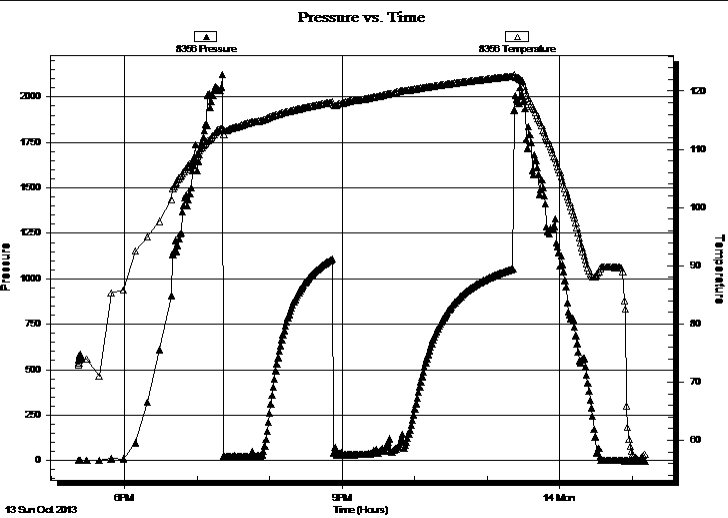
GENERAL INFORMATION:

Formation: **LKC A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:23:01
 Time Test Ended: 01:11:01
Interval: 4100.00 ft (KB) To 4200.00 ft (KB) (TVD)
 Total Depth: 4200.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inchesHole Condition: Good
 Reference Elevations: 3237.00 ft (KB)
 3227.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8356 Outside

Press @RunDepth:	psig @ 4101.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2013.10.13 End Date: 2013.10.14	Last Calib.:	2013.10.14
Start Time:	17:22:07 End Time: 01:10:31	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: Surface blow built to 1 1/4"
 IS: No return.
 FF: Surface blow built to 1/2"
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 5%o 95% m	0.15

* 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 Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 54951

DST#: 2

ATTN: Kevin Kessler

Test Start: 2013.10.13 @ 17:22:31

Tool Information

Drill Pipe:	Length: 3846.00 ft	Diameter: 3.80 inches	Volume: 53.95 bbl	Tool Weight: 2000.00 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: 234.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 55.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4100.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	128.00 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			4073.00	
Shut In Tool	5.00			4078.00	
Hydraulic tool	5.00			4083.00	
Jars	5.00			4088.00	
Safety Joint	3.00			4091.00	
Packer	5.00			4096.00	28.00 Bottom Of Top Packer
Packer	4.00			4100.00	
Stubb	1.00			4101.00	
Recorder	0.00	8373	Inside	4101.00	
Recorder	0.00	8356	Outside	4101.00	
Perforations	29.00			4130.00	
Change Over Sub	1.00			4131.00	
Drill Pipe	63.00			4194.00	
Change Over Sub	1.00			4195.00	
Bullnose	5.00			4200.00	100.00 Bottom Packers & Anchor

Total Tool Length: 128.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 54951

DST#: 2

ATTN: Kevin Kessler

Test Start: 2013.10.13 @ 17:22:31

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:

0 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	ocm 5%o 95%m	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

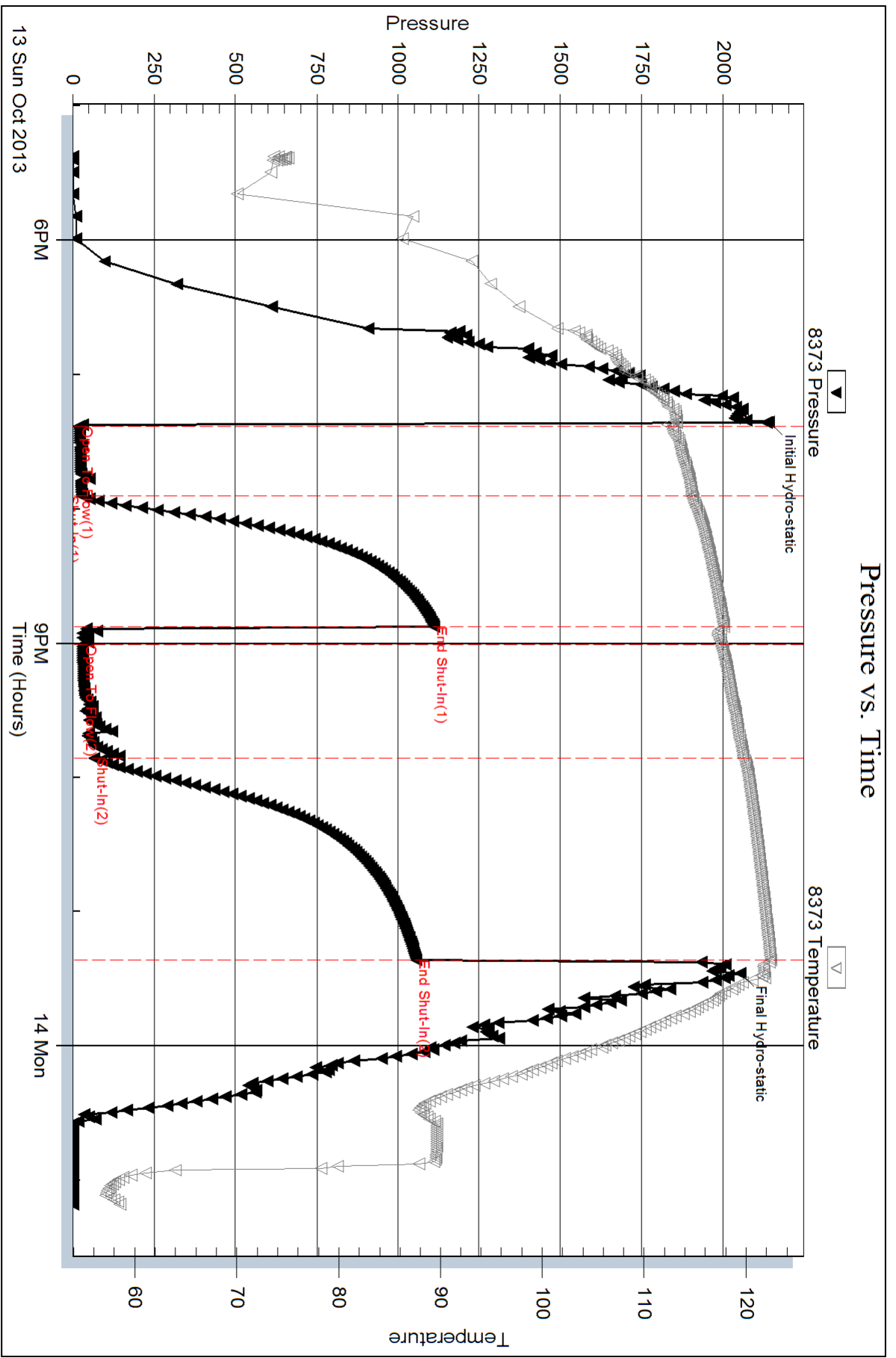
Serial #: 8373

Inside

Murfin Drilling Co Inc

Walter #3-1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 54951

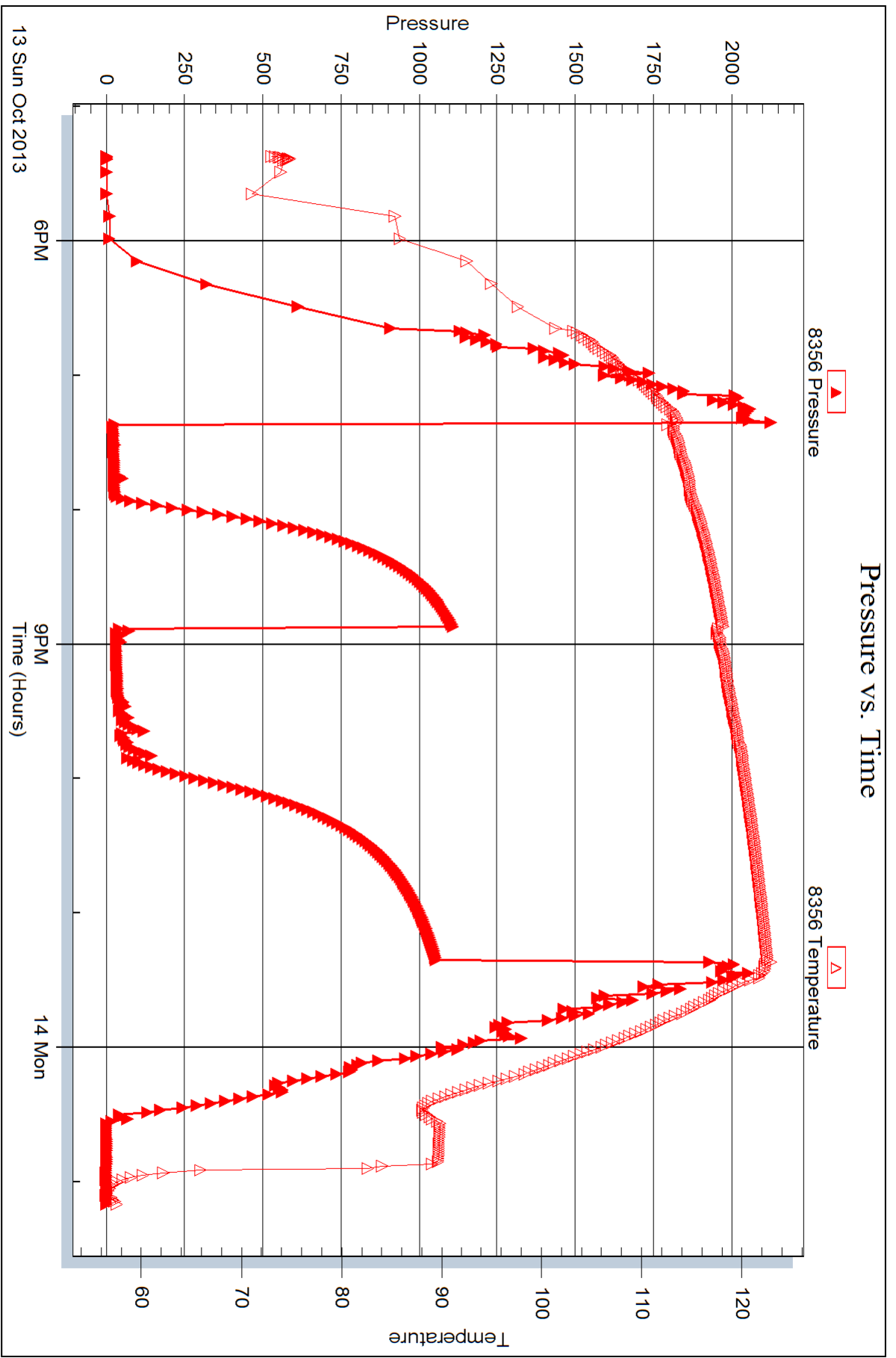
Printed: 2013.10.18 @ 13:18:20

Serial #: 8356

Outside Murfin Drilling Co Inc

Walter #3-1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 54951

Printed: 2013.10.18 @ 13:18:21



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Walter #3-1

1-1s-36w Rawlins,KS

Start Date: 2013.10.14 @ 08:45:00

End Date: 2013.10.14 @ 16:52:30

Job Ticket #: 53579 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.18 @ 13:17:53



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N Water ste 300
 Wichita, KS 67202
 ATTN: Kevin Kessler

1-1s-36w Rawlins,KS
Walter #3-1
 Job Ticket: 53579 **DST#: 3**
 Test Start: 2013.10.14 @ 08:45:00

GENERAL INFORMATION:

Formation: **LKC-B**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 10:20:00
 Tester: Chuck Kreuzer Jr.
 Time Test Ended: 16:52:30
 Unit No: 61
 Interval: **4180.00 ft (KB) To 4240.00 ft (KB) (TVD)**
 Reference Elevations: 3237.00 ft (KB)
 Total Depth: 4240.00 ft (KB) (TVD)
 3227.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 10.00 ft

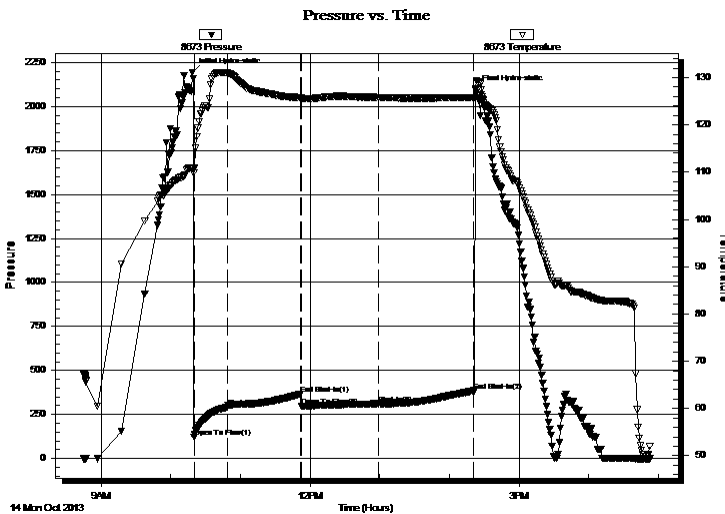
Serial #: 8673

Inside

Press @ Run Depth: 311.41 psig @ 4181.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.14 End Date: 2013.10.14 Last Calib.: 2013.10.15
 Start Time: 08:45:01 End Time: 16:52:30 Time On Btm: 2013.10.14 @ 10:18:30
 Time Off Btm: 2013.10.14 @ 14:22:30

TEST COMMENT: IF: Strong blow , Built to B.O.B in 3 mins.
 IS: Bled off , Blow back after 30 sec. Built to B.O.B in 5 mins.
 FF: Took 2 mins to start to blow , Built to B.O.B in 10 min.
 FS: Bled off , Blow back built to B.O.B in 10 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2192.75	110.65	Initial Hydro-static
2	119.61	109.93	Open To Flow (1)
31	291.55	130.92	Shut-In(1)
94	364.40	125.69	End Shut-In(1)
95	295.89	125.63	Open To Flow (2)
161	311.41	125.79	Shut-In(2)
243	384.75	125.82	End Shut-In(2)
244	2096.92	127.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	620 ft. of gas in pipe	0.00
251.00	vsocm-4%o96%m	1.23
124.00	ghocm-5%g20%o73%m	1.74
248.00	go-20%g80%o	3.48
186.00	og-30%o70%g	2.61

* 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 Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 53579

DST#: 3

ATTN: Kevin Kessler

Test Start: 2013.10.14 @ 08:45:00

Tool Information

Drill Pipe:	Length: 3925.00 ft	Diameter: 3.80 inches	Volume: 55.06 bbl	Tool Weight:	2000.00 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: 251.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 56.29 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4180.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	88.00 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			4153.00	
Shut In Tool	5.00			4158.00	
Hydraulic tool	5.00			4163.00	
Jars	5.00			4168.00	
Safety Joint	3.00			4171.00	
Packer	5.00			4176.00	28.00 Bottom Of Top Packer
Packer	4.00			4180.00	
Packer - Shale	0.00			4180.00	
Stubb	1.00			4181.00	
Recorder	0.00	8673	Inside	4181.00	
Recorder	0.00	0	Outside	4181.00	
Perforations	2.00			4183.00	
Change Over Sub	1.00			4184.00	
Drill Pipe	32.00			4216.00	
Change Over Sub	1.00			4217.00	
Perforations	20.00			4237.00	
Bullnose	3.00			4240.00	60.00 Bottom Packers & Anchor
Total Tool Length:	88.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 53579

DST#: 3

ATTN: Kevin Kessler

Test Start: 2013.10.14 @ 08:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.48 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	620 ft. of gas in pipe	0.000
251.00	vsocm-4%o96%m	1.234
124.00	ghocm-5%g20%o73%m	1.739
248.00	go-20%g80%o	3.479
186.00	og-30%o70%g	2.609

Total Length: 809.00 ft

Total Volume: 9.061 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

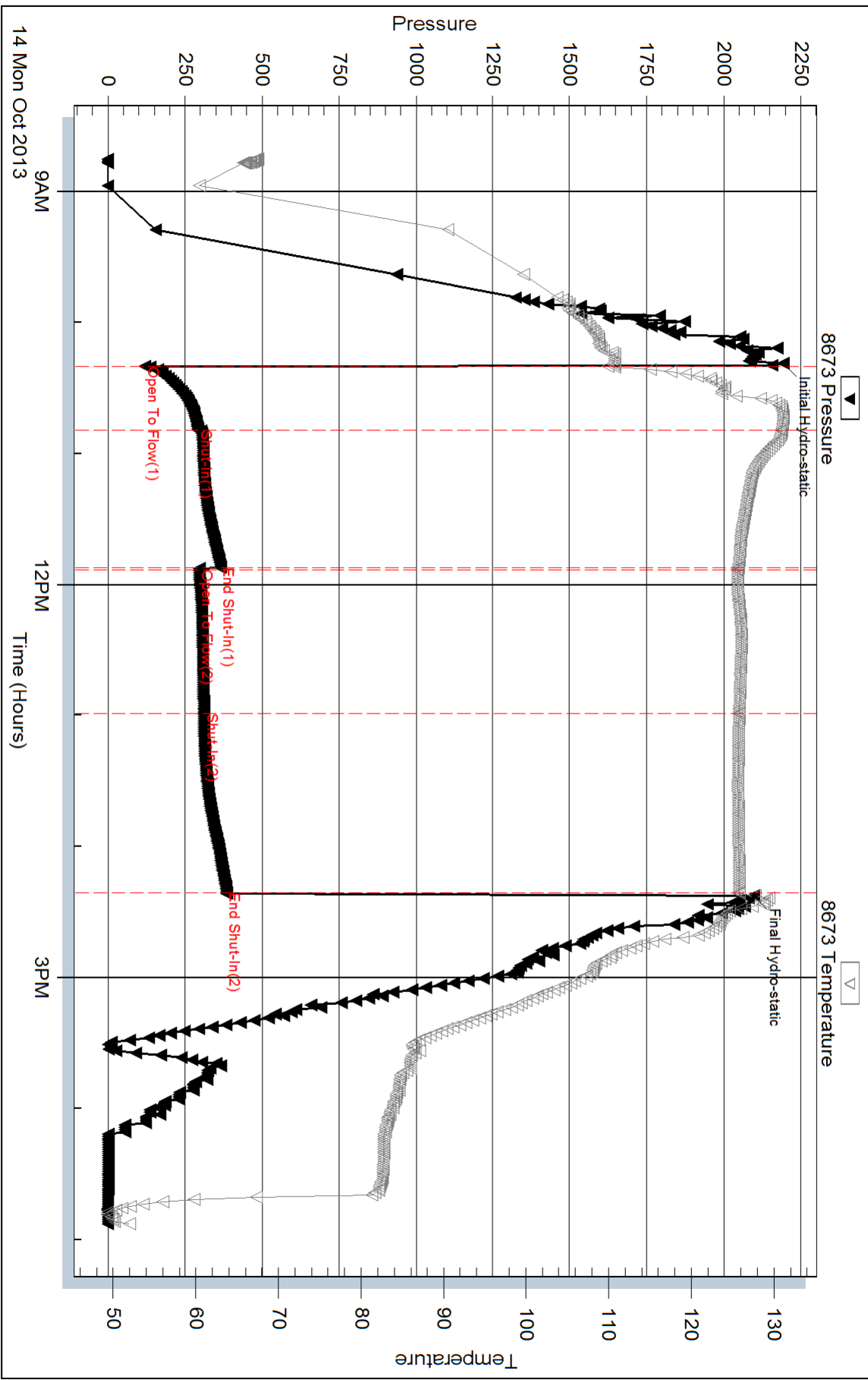
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Walter #3-1

1-1s-36w Rawlins,KS

Start Date: 2013.10.15 @ 02:05:00

End Date: 2013.10.15 @ 11:02:30

Job Ticket #: 53580 DST #: 4

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

Printed: 2013.10.18 @ 13:17:27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

1-1s-36w Rawlins,KS

Walter #3-1

Job Ticket: 53580

DST#: 4

Test Start: 2013.10.15 @ 02:05:00

GENERAL INFORMATION:

Formation: **LKC-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:37:00

Time Test Ended: 11:02:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer

Unit No: 61

Interval: 4235.00 ft (KB) To 4290.00 ft (KB) (TVD)

Total Depth: 4290.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3237.00 ft (KB)

3227.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8673

Inside

Press @ Run Depth: 331.48 psig @ 4236.00 ft (KB)

Start Date: 2013.10.15

End Date: 2013.10.15

Start Time: 02:05:01

End Time: 11:02:30

Capacity: 8000.00 psig

Last Calib.: 2013.10.15

Time On Btm: 2013.10.15 @ 04:27:00

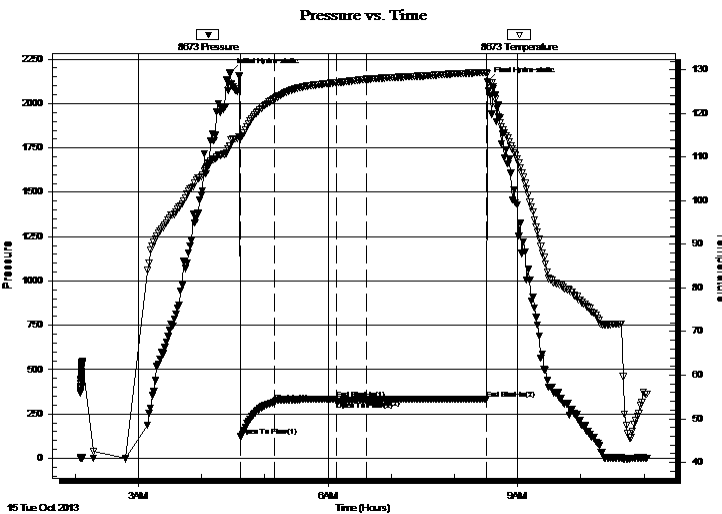
Time Off Btm: 2013.10.15 @ 08:31:00

TEST COMMENT: IF: Strong blow, Built to B.O.B in 45 secs. gas to surface in 11 mins.

IS: Bled off, Blow back after 30 secs. Built to B.O.B in 50 mins.

FF: Fair blow after 5 mins. Built to B.O.B in 20 mins.

FS: Bled off. Blow back after 30 secs. Built to B.O.B in 10 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2172.45	112.64	Initial Hydro-static
10	121.85	114.32	Open To Flow (1)
43	315.61	123.45	Shut-In(1)
101	331.73	127.03	End Shut-In(1)
101	320.75	127.03	Open To Flow (2)
130	331.48	127.82	Shut-In(2)
243	331.60	129.40	End Shut-In(2)
244	2123.61	129.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
116.00	ghocm-5%g10%o85%m	0.57
126.00	go-25%g75%o	0.62
252.00	go-50%g50%o	3.45
370.00	go-30%g70%o	5.19
0.00	GTS	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 Co Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

ATTN: Kevin Kessler

Job Ticket: 53580

DST#: 4

Test Start: 2013.10.15 @ 02:05:00

GENERAL INFORMATION:

Formation: **LKC-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:37:00

Time Test Ended: 11:02:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer

Unit No: 61

Interval: 4235.00 ft (KB) To 4290.00 ft (KB) (TVD)

Reference Elevations: 3237.00 ft (KB)

Total Depth: 4290.00 ft (KB) (TVD)

3227.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8651 Outside

Press @ Run Depth: psig @ 4236.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.15

End Date: 2013.10.15

Last Calib.: 2013.10.15

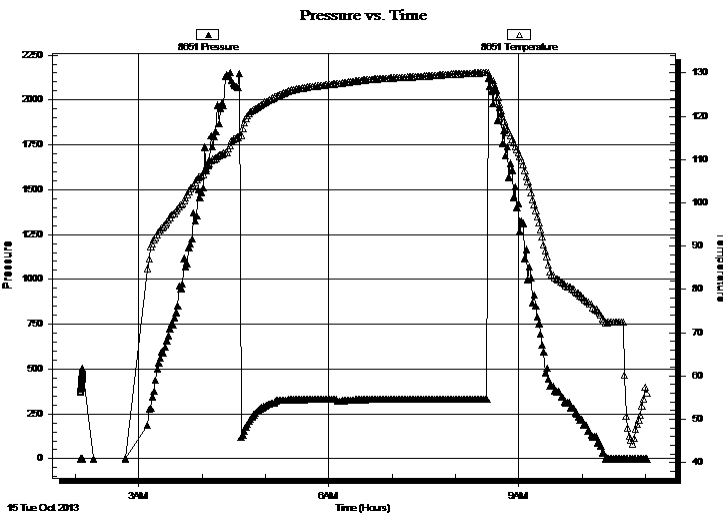
Start Time: 02:05:01

End Time: 11:02:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong blow, Built to B.O.B in 45 secs. gas to surface in 11 mins.
IS: Bled off, Blow back after 30 secs. Built to B.O.B in 50 mins.
FF: Fair blow after 5 mins. Built to B.O.B in 20 mins.
FS: Bled off. Blow back after 30 secs. Built to B.O.B in 10 mins.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
116.00	ghocm-5%g10%o85%m	0.57
126.00	go-25%g75%o	0.62
252.00	go-50%g50%o	3.45
370.00	go-30%g70%o	5.19
0.00	GTS	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 Co Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 53580

DST#: 4

ATTN: Kevin Kessler

Test Start: 2013.10.15 @ 02:05:00

Tool Information

Drill Pipe:	Length: 3971.00 ft	Diameter: 3.80 inches	Volume: 55.70 bbl	Tool Weight: 2000.00 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: 251.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 56.93 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4235.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Stubb	1.00			4208.00	
Shut In Tool	5.00			4213.00	
Hydraulic tool	5.00			4218.00	
Jars	5.00			4223.00	
Safety Joint	3.00			4226.00	
Packer	5.00			4231.00	28.00 Bottom Of Top Packer
Packer	4.00			4235.00	
Packer - Shale	0.00			4235.00	
Stubb	1.00			4236.00	
Recorder	0.00	8673	Inside	4236.00	
Recorder	0.00	8651	Outside	4236.00	
Perforations	2.00			4238.00	
Change Over Sub	1.00			4239.00	
Drill Pipe	32.00			4271.00	
Change Over Sub	1.00			4272.00	
Perforations	15.00			4287.00	
Bullnose	3.00			4290.00	55.00 Bottom Packers & Anchor
Total Tool Length:	83.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 53580

DST#: 4

ATTN: Kevin Kessler

Test Start: 2013.10.15 @ 02:05:00

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:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
116.00	ghocm-5%g10%o85%m	0.570
126.00	go-25%g75%o	0.620
252.00	go-50%g50%o	3.453
370.00	go-30%g70%o	5.190
0.00	GTS	0.000

Total Length: 864.00 ft

Total Volume: 9.833 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8673

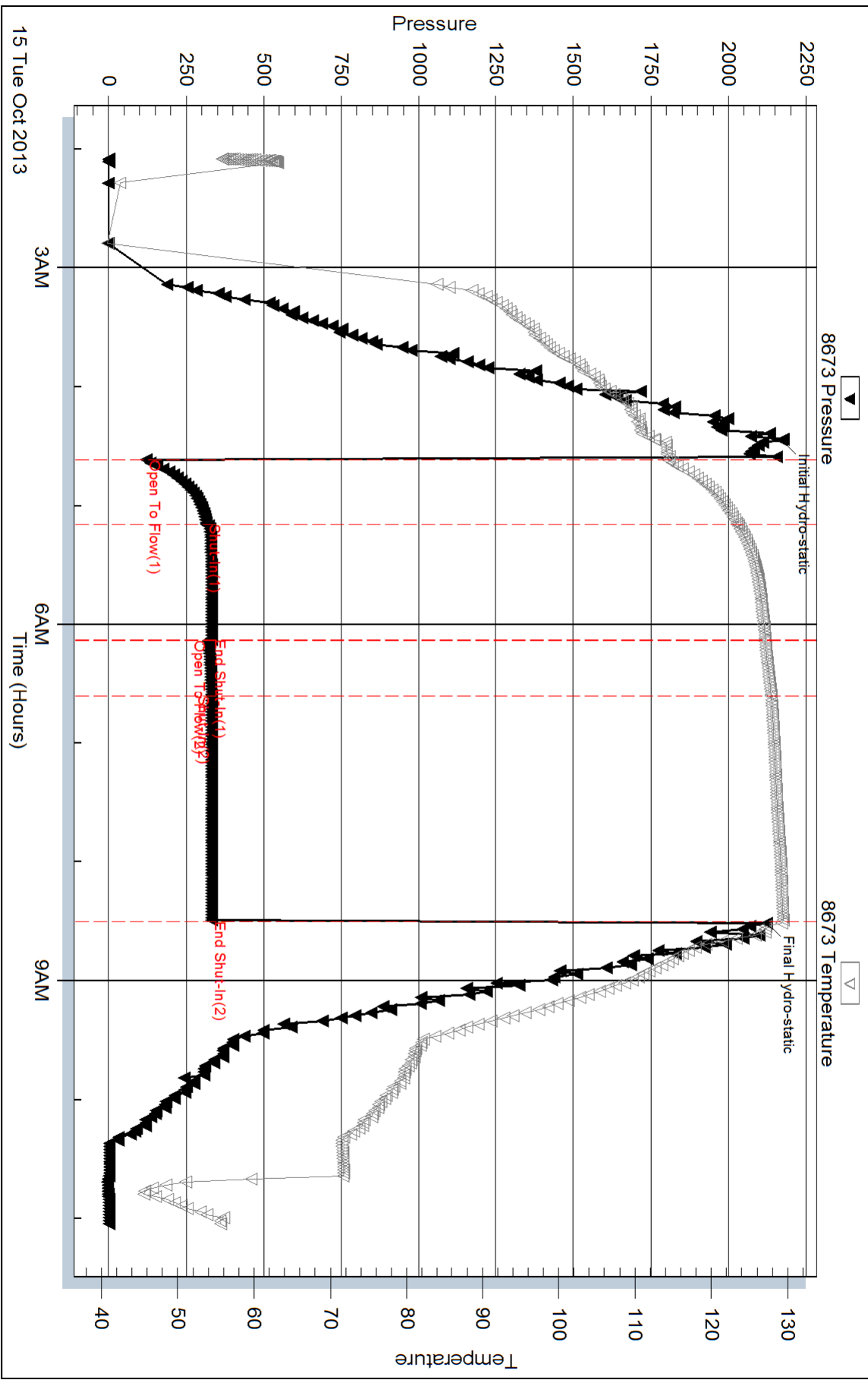
Inside

Murfin Drilling Co Inc

Walter #3-1

DST Test Number: 4

Pressure vs. Time

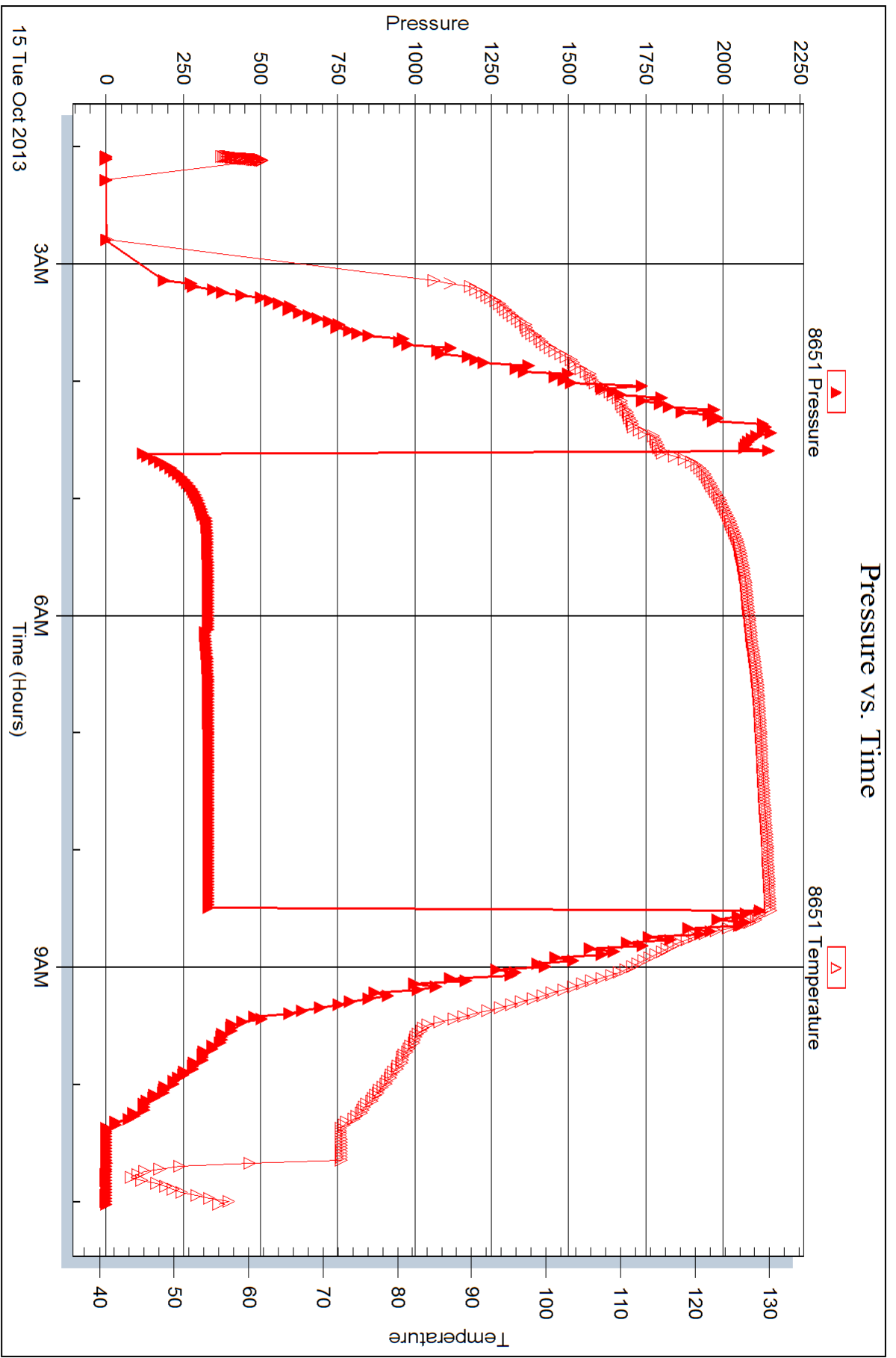


Serial #: 8651

Outside Murfin Drilling Co Inc

Walter #3-1

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Walter #3-1

1-1s-36w Rawlins,KS

Start Date: 2013.10.15 @ 20:30:00

End Date: 2013.10.16 @ 05:14:00

Job Ticket #: 53581 DST #: 5

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

Printed: 2013.10.18 @ 13:17:02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 53581

DST#: 5

ATTN: Kevin Kessler

Test Start: 2013.10.15 @ 20:30:00

GENERAL INFORMATION:

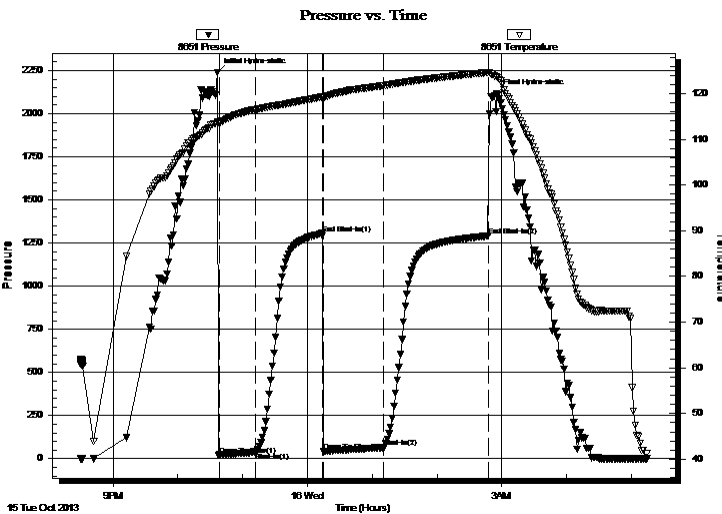
Formation: **LKC-H,I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:38:30
 Time Test Ended: 05:14:00
 Interval: **4285.00 ft (KB) To 4360.00 ft (KB) (TVD)**
 Total Depth: 4360.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Kreuzer Jr.
 Unit No: 61
 Reference Elevations: 3237.00 ft (KB)
 3227.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8651

Outside

Press @ Run Depth: 64.34 psig @ 4286.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.15 End Date: 2013.10.16 Last Calib.: 2013.10.15
 Start Time: 20:30:01 End Time: 05:14:00 Time On Btm: 2013.10.15 @ 22:36:30
 Time Off Btm: 2013.10.16 @ 02:55:00

TEST COMMENT: IF: Fair blow, Built to B.O.B in 25 mins.
 IS: Blow back after 5 mins. Built to 1 & 1/2 in. over 20 mins. blow started to die at 25 mins. dead in 50 mins.
 FF: Fair blow, Built to B.O.B in 35 mins.
 FS: Blow back after 2 mins. Built to 3 in. over 45 mins. Started to die, Dead in 75 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2238.79	113.83	Initial Hydro-static
2	22.56	113.69	Open To Flow (1)
36	36.94	116.54	Shut-In(1)
97	1305.04	119.25	End Shut-In(1)
99	41.12	119.12	Open To Flow (2)
154	64.34	121.75	Shut-In(2)
251	1291.38	124.65	End Shut-In(2)
259	2116.85	123.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOCM-5%g20%o75%m	0.30
117.00	go-30%g70%o	0.58
0.00	365 ft. of gas	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 Co Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 53581

DST#: 5

ATTN: Kevin Kessler

Test Start: 2013.10.15 @ 20:30:00

Tool Information

Drill Pipe:	Length: 4012.00 ft	Diameter: 3.80 inches	Volume: 56.28 bbl	Tool Weight:	2000.00 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: 251.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose:	64000.00 lb
			<u>Total Volume: 57.51 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4285.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	75.00 ft				
Tool Length:	103.00 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			4258.00	
Shut In Tool	5.00			4263.00	
Hydraulic tool	5.00			4268.00	
Jars	5.00			4273.00	
Safety Joint	3.00			4276.00	
Packer	5.00			4281.00	28.00 Bottom Of Top Packer
Packer	4.00			4285.00	
Stubb	1.00			4286.00	
Recorder	0.00	8673	Inside	4286.00	
Recorder	0.00	8651	Outside	4286.00	
Perforations	6.00			4292.00	
Change Over Sub	1.00			4293.00	
Drill Pipe	63.00			4356.00	
Change Over Sub	1.00			4357.00	
Bullnose	3.00			4360.00	75.00 Bottom Packers & Anchor

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 53581

DST#: 5

ATTN: Kevin Kessler

Test Start: 2013.10.15 @ 20:30:00

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GHOCM-5%g20%o75%m	0.295
117.00	go-30%g70%o	0.575
0.00	365 ft. of gas	0.000

Total Length: 177.00 ft Total Volume: 0.870 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

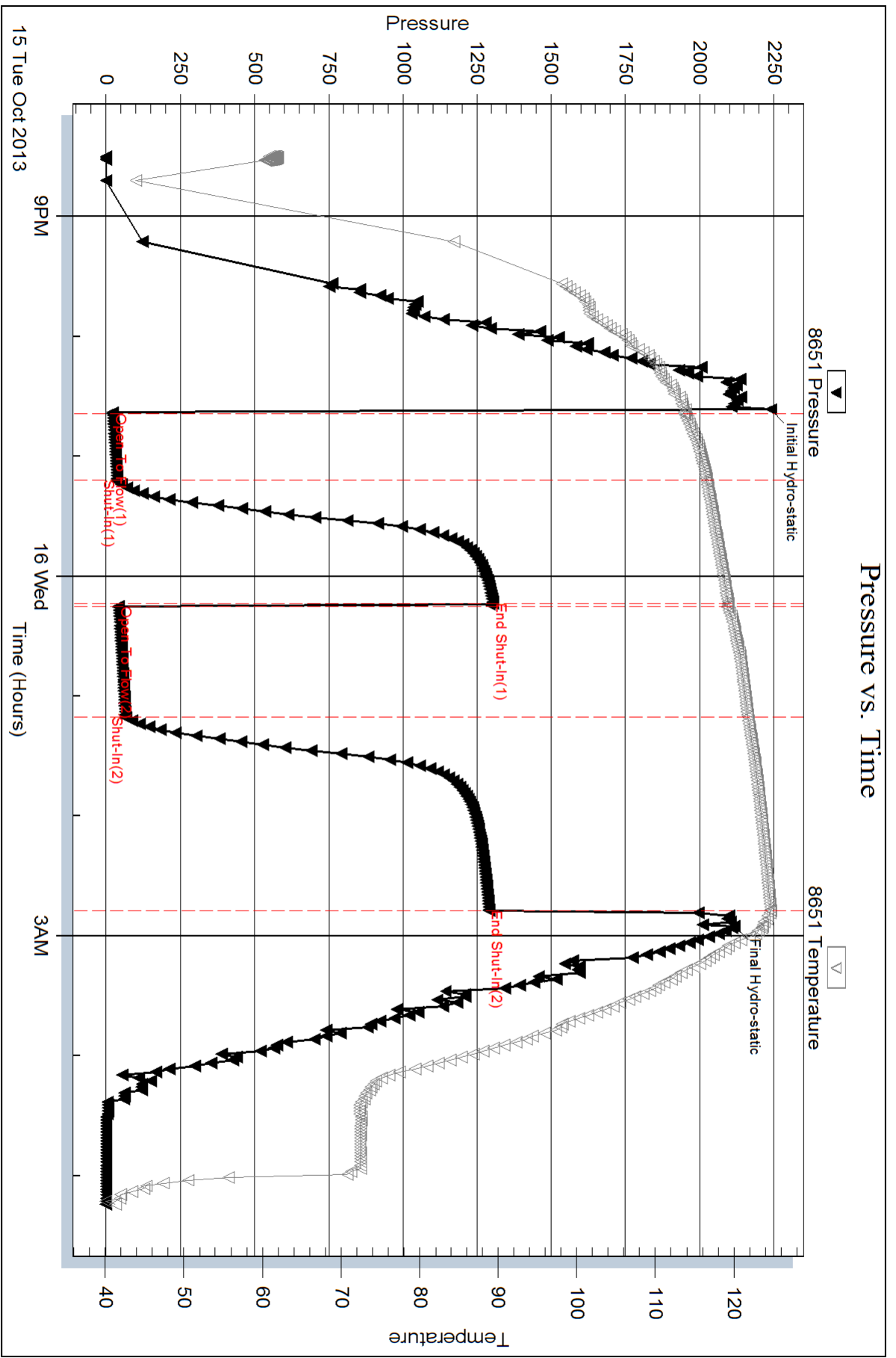
Recovery Comments:

Serial #: 8651

Outside Murfin Drilling Co Inc

Walter #3-1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 53581

Printed: 2013.10.18 @ 13:17:04



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Walter #3-1

1-1s-36w Rawlins,KS

Start Date: 2013.10.16 @ 13:15:00

End Date: 2013.10.16 @ 20:40:00

Job Ticket #: 53582 DST #: 6

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

Printed: 2013.10.18 @ 13:16:32

Murfin Drilling Co Inc
1-1s-36w Rawlins,KS
Walter #3-1
DST # 6
LKC-J
2013.10.16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

ATTN: Kevin Kessler

Job Ticket: 53582

DST#: 6

Test Start: 2013.10.16 @ 13:15:00

GENERAL INFORMATION:

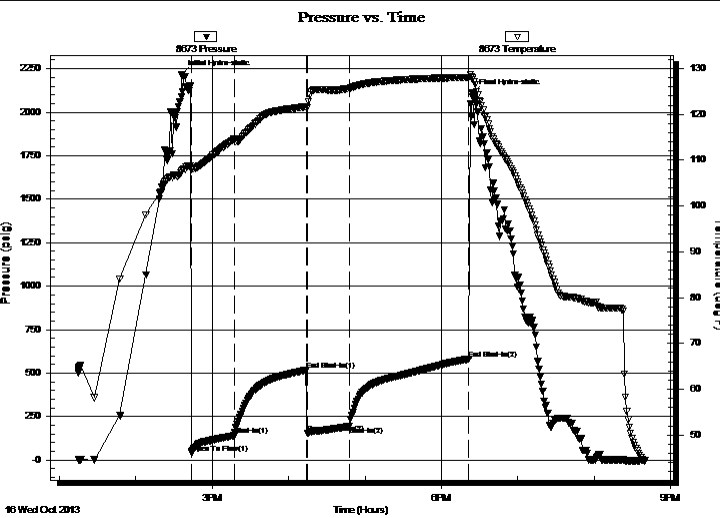
Formation: **LKC-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:44:00
 Time Test Ended: 20:40:00
 Interval: **4350.00 ft (KB) To 4390.00 ft (KB) (TVD)**
 Total Depth: 4390.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Kreuzer Jr.
 Unit No: 61
 Reference Elevations: 3237.00 ft (KB)
 3227.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8673

Inside

Press @ Run Depth: 193.67 psig @ 4351.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.16 End Date: 2013.10.16 Last Calib.: 2013.10.16
 Start Time: 13:15:01 End Time: 20:40:00 Time On Btm: 2013.10.16 @ 14:36:00
 Time Off Btm: 2013.10.16 @ 18:24:00

TEST COMMENT: IF: Strong bnlow , Built yo B.O.B in 5 mins. gas to surface in 15 mins.
 IS: Bled off, Blow back after 3 mins. Built to 2 in. over 60 mins.
 FF: Strong blow , Built to B.O.B in 6 mins.
 FSI: Bled off, Blow back after 1 min. built to B.O.B in 3 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2217.10	107.58	Initial Hydro-static
8	42.62	108.09	Open To Flow (1)
41	140.66	114.57	Shut-In(1)
98	517.71	121.67	End Shut-In(1)
99	155.13	121.48	Open To Flow (2)
132	193.67	125.66	Shut-In(2)
226	580.78	128.09	End Shut-In(2)
228	2109.50	127.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
175.00	GHOCM-10%g25%o65%m	0.86
247.00	go-30%g70%o	2.77
0.00	GTS	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 Co Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 53582

DST#: 6

ATTN: Kevin Kessler

Test Start: 2013.10.16 @ 13:15:00

GENERAL INFORMATION:

Formation: **LKC-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:44:00

Time Test Ended: 20:40:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 4350.00 ft (KB) To 4390.00 ft (KB) (TVD)

Reference Elevations: 3237.00 ft (KB)

Total Depth: 4390.00 ft (KB) (TVD)

3227.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8651 Outside

Press @ Run Depth: psig @ 4351.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.16

End Date:

2013.10.16

Last Calib.:

2013.10.16

Start Time: 13:15:01

End Time:

20:40:00

Time On Btm:

Time Off Btm:

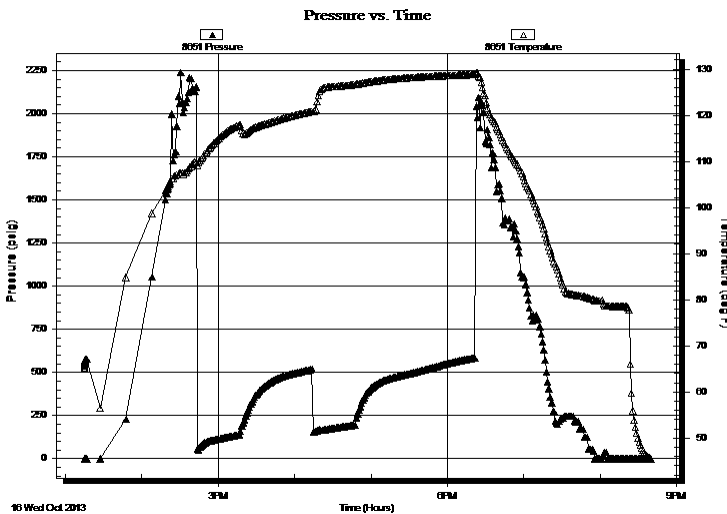
TEST COMMENT: IF: Strong bnlow , Built yo B.O.B in 5 mins. gas to surface in 15 mins.

IS: Bled off, Blow back after 3 mins. Built to 2 in. over 60 mins.

FF: Strong blow , Built to B.O.B in 6 mins.

FSI: Bled off, Blow back after 1 min. built to B.O.B in 3 mins.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
175.00	GHOCM-10%g25%o65%m	0.86
247.00	go-30%g70%o	2.77
0.00	GTS	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 Co Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 53582

DST#: 6

ATTN: Kevin Kessler

Test Start: 2013.10.16 @ 13:15:00

Tool Information

Drill Pipe:	Length: 4075.00 ft	Diameter: 3.80 inches	Volume: 57.16 bbl	Tool Weight:	2000.00 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: 251.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 58.39 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4350.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	68.00 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			4323.00	
Shut In Tool	5.00			4328.00	
Hydraulic tool	5.00			4333.00	
Jars	5.00			4338.00	
Safety Joint	3.00			4341.00	
Packer	5.00			4346.00	28.00 Bottom Of Top Packer
Packer	4.00			4350.00	
Stubb	1.00			4351.00	
Recorder	0.00	8673	Inside	4351.00	
Recorder	0.00	8651	Outside	4351.00	
Perforations	2.00			4353.00	
Change Over Sub	1.00			4354.00	
Drill Pipe	32.00			4386.00	
Change Over Sub	1.00			4387.00	
Bullnose	3.00			4390.00	40.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

1-1s-36w Rawlins,KS

250 N Water ste 300
Wichita, KS 67202

Walter #3-1

Job Ticket: 53582

DST#: 6

ATTN: Kevin Kessler

Test Start: 2013.10.16 @ 13:15:00

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: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
175.00	GHOCM-10%g25%o65%m	0.861
247.00	go-30%g70%o	2.772
0.00	GTS	0.000

Total Length: 422.00 ft Total Volume: 3.633 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

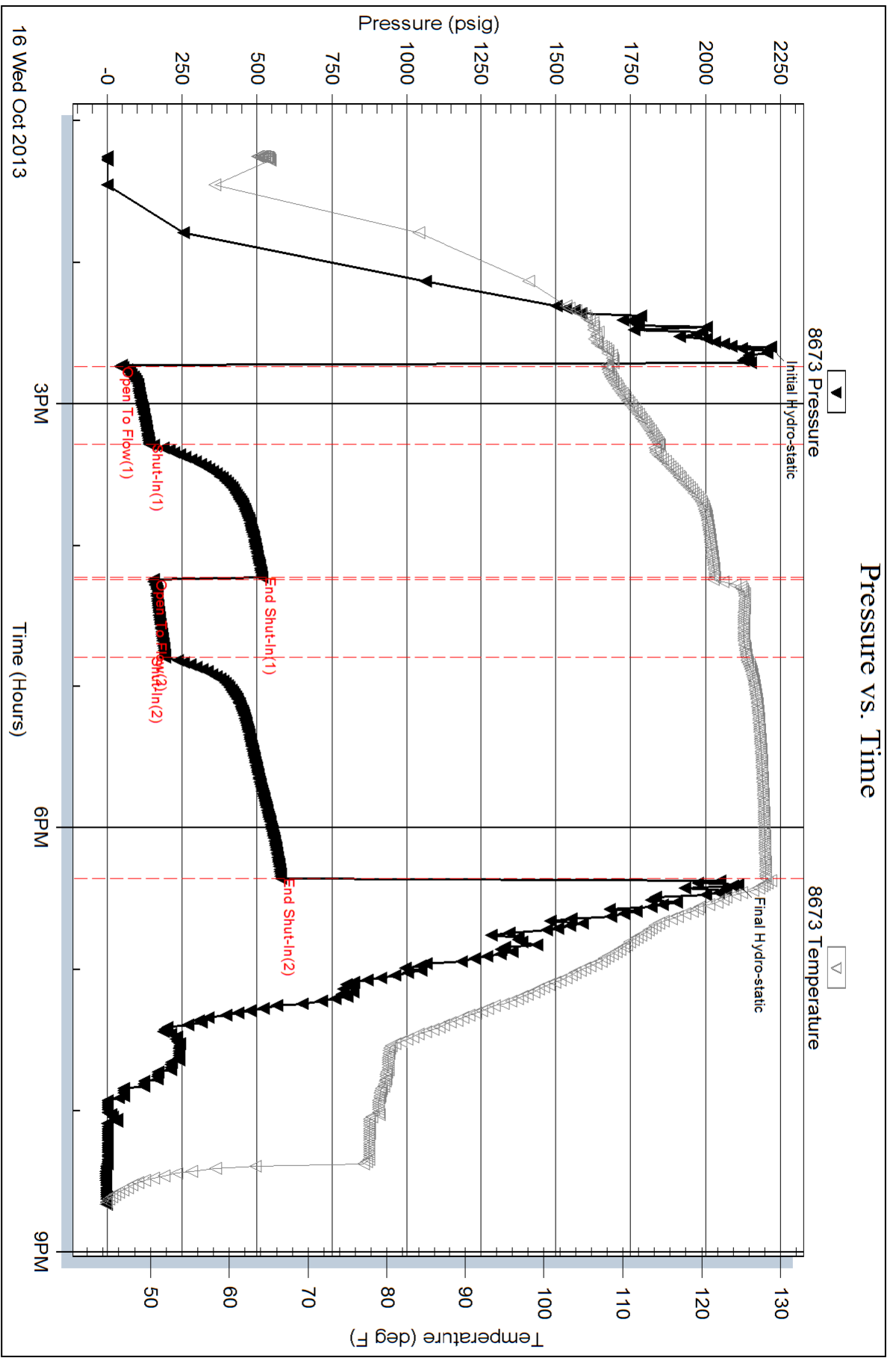
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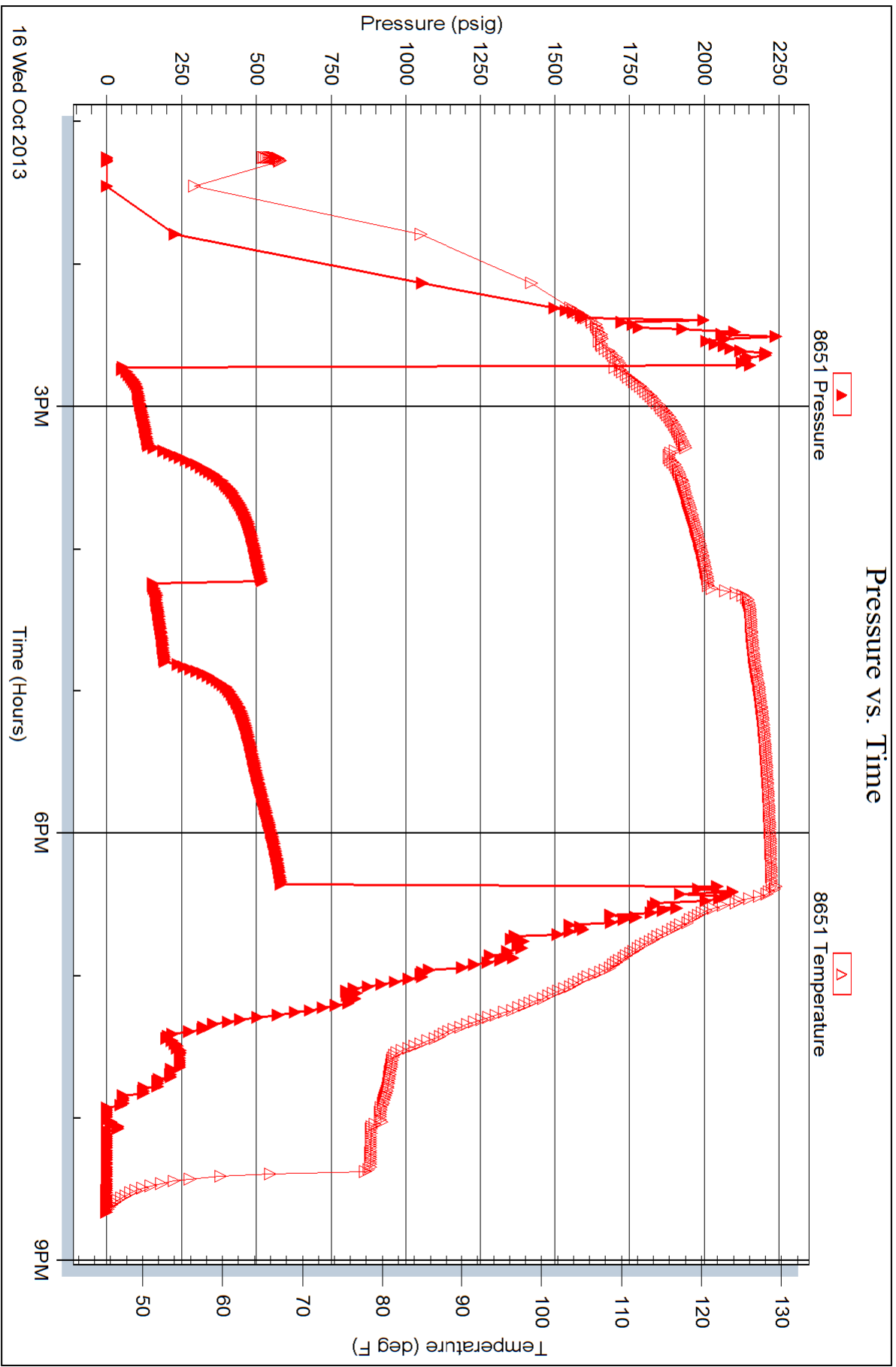
Inside

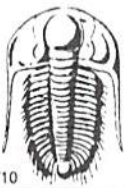
Murfin Drilling Co Inc

Walter #3-1

DST Test Number: 6







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54950

Well Name & No. walter #3-1 Test No. 1 Date 10-12-13
 Company Murfin Drilling Co Inc Elevation 3237 KB 3227 GL
 Address 250 N Water Ste 300 Wichita, KS 67262
 Co. Rep / Geo. Kevin Kessler Rig Murfin 2
 Location: Sec. 1 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4030 4080 Zone Tested oread
 Anchor Length 50 Drill Pipe Run 3782 Mud Wt. 9.0
 Top Packer Depth 4025 Drill Collars Run 234 Vis 64
 Bottom Packer Depth 4030 Wt. Pipe Run WL 7.0
 Total Depth 4080 Chlorides 6000 ppm System LCM 4

Blow Description IF: surface blow died in 6 min.
IS: No return,
FF: No blow.
FB: No return,

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	Feet of	%gas	%oil	%water	%mud

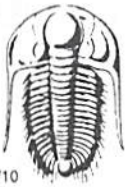
Rec Total 5 BHT 121 Gravity API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 2052 Test 1250.00 T-On Location 20:00
 (B) First Initial Flow 16 Jars 250.00 T-Started 22:11
 (C) First Final Flow 16 Safety Joint 75.00 T-Open 00:12
 (D) Initial Shut-In 34 Circ Sub N/L T-Pulled 3:12
 (E) Second Initial Flow 17 Hourly Standby 100.00 T-Out 5:10
 (F) Second Final Flow 17 Mileage 280-434.00 Comments out of town pay,
 (G) Final Shut-In 25 Sampler 108rt 167.40
 (H) Final Hydrostatic 2001 Straddle Ruined Shale Packer Ruined Packer Extra Copies

Initial Open 30 Extra Packer Extra Recorder Day Standby Accessibility
 Initial Shut-In 60 Sub Total 0
 Final Flow 30 Total 1742.40
 Final Shut-In 60 MP/DST Disc't

Approved By Kevin Kessler 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. 54951

Well Name & No. Walter #3-1 Test No. 2 Date 10-13-13
 Company Martin Drilling Co Inc Elevation 3237 KB 3227 GL
 Address _____
 Co. Rep / Geo. Kevin Kessler Rig Martin 2
 Location: Sec. 1 Twp. 15 Rge. 36W Co. R9WJins State KS

Interval Tested 4100 4200 Zone Tested Lansing-A
 Anchor Length 100 ~~4095~~ Drill Pipe Run 3846 Mud Wt. 9.0
 Top Packer Depth 4095 Drill Collars Run 234 Vis 64
 Bottom Packer Depth 4100 Wt. Pipe Run _____ WL 7.0
 Total Depth 4200 Chlorides 6000 ppm System LCM 4
 Blow Description IF: Surface blow built to 1 1/4.
IS: No return.
FF: Surface blow built to 1/2.
FB: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>ocm</u>	<u>5</u>		<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

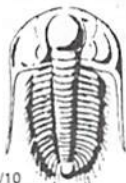
Rec Total 30 BHT 122 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2140</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>16:00</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>15:22</u>
(C) First Final Flow <u>27</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>19:21</u>
(D) Initial Shut-In <u>1109</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>23:21</u>
(E) Second Initial Flow <u>30</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1:10</u>
(F) Second Final Flow <u>66</u>	<input checked="" type="checkbox"/> Mileage <u>280 - 434.00</u>	Comments <u>out of town pay</u>
(G) Final Shut-In <u>1054</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2052</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input checked="" type="checkbox"/> Ruined Packer 320
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>2062.40</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1742.40</u>	

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

Approved By Kevin Kessler Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53579

Well Name & No. 3-1 Walter Test No. B Date 10-14-2013
 Company Murfin Drilling Co. Elevation 3238 KB 3228 GL
 Address 250 N. water ste. 300 wichita Ks 6
 Co. Rep / Geo. Kevin Kessler Rig Murfin #2
 Location: Sec. 1 Twp. 15 Rge. 36W Co. Rawlins State Ks.

Interval Tested 4180 4240 Zone Tested LKC-B
 Anchor Length 60 Drill Pipe Run 3925 Mud Wt. 9.2
 Top Packer Depth 4175 Drill Collars Run 251 Vis 44
 Bottom Packer Depth 4186 Wt. Pipe Run -0- WL 6.5
 Total Depth 4240 Chlorides 700 ppm System LCM 4#

Blow Description IF: Strong blow, Built to B.O.B in 3mins.
ISF: Bled off, Blow Back after 30secs. Built to B.O.B in 5mins
FF: took 2mins to start to blow, Built to B.O.B in 10mins
FSF: Bled off, Blow Back built to B.O.B in 10mins.

Rec	Feet of	%gas	%oil	%water	%mud
186	og	70	30		
248	go	20	80		
124	640cm	5	20		75
251	vs0cm		4		96
0	620ft of Gas in Pipe				

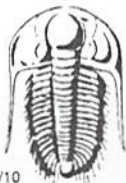
Rec Total 809 BHT 725 Gravity 32.8 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic <u>2193</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>6:30</u>
(B) First Initial Flow <u>120</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>8:45</u>
(C) First Final Flow <u>292</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:20</u>
(D) Initial Shut-In <u>365</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>14:20</u>
(E) Second Initial Flow <u>296</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>16:52</u>
(F) Second Final Flow <u>311</u>	<input checked="" type="checkbox"/> Mileage <u>60x2 = 120x1.55</u> <u>167.40</u>	Comments <u>Stayed at Apartment in Berlin</u>
(G) Final Shut-In <u>385</u>	<input type="checkbox"/> Sampler	<u>14</u>
(H) Final Hydrostatic <u>2697</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1742.40</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1742.40</u>	

Approved By _____ Our Representative Kevin Kessler

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53580

4/10

Well Name & No. 3-1 Walter Test No. 4 Date 10-15-2013
 Company Murfin Drilling Co. Elevation 3238 KB 3228 GL
 Address 250 N. Water Ste. 300 Wichita Ks.
 Co. Rep / Geo. Kevin Kessler Rig Murfin #2
 Location: Sec. 1 Twp. 15 Rge. 36W Co. Rawlins State Ks.

Interval Tested 4235 4290 Zone Tested LKC-G
 Anchor Length 55 Drill Pipe Run 3971 Mud Wt. 9.2
 Top Packer Depth 4230 Drill Collars Run 251 Vis 44
 Bottom Packer Depth 4235 Wt. Pipe Run 0- WL 6.6
 Total Depth 4290 Chlorides 700 ppm System LCM 4#

Blow Description IF: Strong blow, Built to B.O.B in 45 sec. gas to surface in 11 mins
ISF: Bled off, Blow back after 30 secs. Built to B.O.B in 50 mins.
FF: Fair blow after 5 mins. Built to B.O.B in 20 mins.
FSI: Bled off. Blow back after 30 sec. Built to B.O.B in 10 mins.

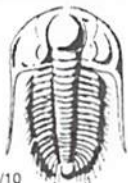
Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>3348 ft. of gas in pipe</u>	<u>100</u>			
<u>370</u>	<u>90</u>	<u>30</u>	<u>70</u>		
<u>252</u>	<u>90</u>	<u>50</u>	<u>50</u>		
<u>126</u>	<u>90</u>	<u>25</u>	<u>75</u>		
<u>116</u>	<u>910cm</u>	<u>5</u>	<u>10</u>		<u>85</u>

Rec Total 864 BHT 128 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2172 Test 1250 T-On Location 2:00
 (B) First Initial Flow 122 Jars 250 T-Started 2:05
 (C) First Final Flow 316 Safety Joint 75 T-Open 4:37
 (D) Initial Shut-In 332 Circ Sub _____ T-Pulled 8:20
 (E) Second Initial Flow 321 Hourly Standby _____ T-Out 11:02
 (F) Second Final Flow 331 Mileage 60x2=120x1.55= 167.40 Comments Stayed in Benchmark Apt. From 15/13
 (G) Final Shut-In 332 Sampler _____
 (H) Final Hydrostatic 2124 Straddle _____ Ruined Shale Packer 350
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Extra Packer _____ Sub Total 0
 Initial Shut-In 60 Extra Recorder _____ Total 2342.40
 Final Flow 30 Day Standby _____ MP/DST Disc't _____
 Final Shut-In 90 Accessibility _____
 Sub Total 1992.40

Approved By _____ Our Representative Chub Kessler

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53581

Well Name & No. 3-1 Walter Test No. 5 Date 10-15-2013
 Company Murfin Drilling Co Elevation 3238 KB 3228 GL
 Address 250 N. Water Wichita Ks.
 Co. Rep / Geo. Kevin Kessler Rig Murfin #2
 Location: Sec. 1 Twp. 15 Rge. 36W Co. Rawlins State Ks

Interval Tested 4285 4360 Zone Tested LKC-H,I
 Anchor Length 75 Drill Pipe Run 4012 Mud Wt. 9.2
 Top Packer Depth 4280 Drill Collars Run 251 Vis 44
 Bottom Packer Depth 4285 Wt. Pipe Run -0- WL 6.6
 Total Depth 4360 Chlorides 700 ppm System LCM 4H

Blow Description IF: Fair blow, Built to B. O. B in 25 mins.
ISI: Blow back after 5 mins. Built to 1 1/2 in. over 20 mins. started to die ~~at~~ At 25 mins. Dead in 50 mins
FF: Fair blow, Built to B. O. B in 35 mins
FSI: Blow back after 2 mins. Built to 3 in over 45 mins. started to die Dead in 75 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>365 ft of gas in pipe</u>				
<u>117</u>	<u>90</u>	<u>30</u>	<u>70</u>		
<u>60</u>	<u>gHOCM</u>	<u>5</u>	<u>20</u>		<u>75</u>

Rec Total 177 BHT 2239 Gravity 1.250 API RW 1250 @ 19.45 ° F Chlorides 700 ppm

(A) Initial Hydrostatic 2239 Test 1250 T-On Location 19:45
 (B) First Initial Flow 23 Jars 250 T-Started 20:30
 (C) First Final Flow 37 Safety Joint 75 T-Open 22:38
 (D) Initial Shut-In 1305 Circ Sub _____ T-Pulled 2:40
 (E) Second Initial Flow 41 Hourly Standby _____ T-Out 5:14
 (F) Second Final Flow 64 Mileage 60x1.25 = 120x1.55 = 167.40 Comments Stayed in Benkman Apt.
 (G) Final Shut-In 1291 Sampler _____ From 15-16
 (H) Final Hydrostatic 2117 Straddle _____
 Shale Packer _____
 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 1742.40
 Total 1742.40
 MP/DST Disc't _____

Approved By _____ Our Representative Charles May Jr.
 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. 53582

4/10

Well Name & No. 3-1 walter Test No. 6 Date 10-16-13
 Company Murfin Drilling Co Elevation 3228 KB 3228 GL
 Address 250 N. Water Ste. 300 Wichita Ks.
 Co. Rep / Geo. Kevin Kessler Rig Murfin Drilling Co
 Location: Sec. 1 Twp. 15 Rge. 36w Co. Rawlins State Ks

Interval Tested 4350 4390 Zone Tested LKC-J
 Anchor Length 40 Drill Pipe Run 4075 Mud Wt. 9.2
 Top Packer Depth 4345 Drill Collars Run 251 Vis 44
 Bottom Packer Depth 4350 Wt. Pipe Run 0 WL 6.6
 Total Depth 4390 Chlorides 700 ppm System LCM 44

Blow Description IF: strong blow, built to B.O.B in 5 mins Gas to surface in 15 mins.
ISI: Bleed off, Blow back after 3 mins. Built to 2 in over 60 mins.
FF: strong blow, built to B.O.B in 6 mins.
FSI: Bleed off, Blow back after 1 min. Built to B.O.B in 3 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>3908 ft of gas in pipe</u>				
<u>247</u>	<u>90</u>	<u>30</u>	<u>70</u>		
<u>175</u>	<u>6 HOcm</u>	<u>10</u>	<u>25</u>		<u>65</u>

Rec Total 422 BHT 126 Gravity 37 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic <u>2217</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>13:00</u>
(B) First Initial Flow <u>43</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>13:15</u>
(C) First Final Flow <u>141</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>14:44</u>
(D) Initial Shut-In <u>518</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>18:15</u>
(E) Second Initial Flow <u>155</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:40</u>
(F) Second Final Flow <u>194</u>	<input checked="" type="checkbox"/> Mileage <u>60 x 2 = 120 x 1.55 = 186</u>	Comments <u>stayed in Bartlesman Apt</u>
(G) Final Shut-In <u>581</u>	<input type="checkbox"/> Sampler <u>334.80</u>	<u>loaded tools at 4:00</u>
(H) Final Hydrostatic <u>2180</u>	<input type="checkbox"/> Straddle	<u>Loaded tool at 4:00 pm on 10-17</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>stayed at Bartlesman Apt</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input checked="" type="checkbox"/> Extra Packer <u>From 10-16-10-17</u>	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input checked="" type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1909.80</u>
	Sub Total <u>1909.80</u>	MP/DST Disc't

Approved By _____ Our Representative Chris Meyer
 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.

*alct.
Prod-LH*

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 139141
Invoice Date: Oct 9, 2013
Page: 1

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

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	61172	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Oct 9, 2013	11/8/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Walter #3-1		
210.00	CEMENT MATERIALS	Class A Common	17.90	3,759.00
7.00	CEMENT MATERIALS	Chloride	64.00	448.00
220.50	CEMENT SERVICE	Cubic Feet	2.48	546.84
813.28	CEMENT SERVICE	Ton Mileage	2.60	2,114.53
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
80.00	CEMENT SERVICE	Pump Truck Mileage	7.70	616.00
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
80.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	352.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	OPERATOR ASSISTANT	Kevin Ryan		

21500

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

\$ 3,368.26 *356*

ONLY IF PAID ON OR BEFORE Nov 3, 2013 *OK*

Subtotal	9,623.62
Sales Tax	332.35
Total Invoice Amount	9,955.97
Payment/Credit Applied	
TOTAL	9,955.97

- 3368.26

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. # 20-8651475

592
19242
061172

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

SERVICE POINT:
Oakley, TX

DATE <u>10/9/13</u>	SEC. <u>1</u>	TWP. <u>1</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Walter</u>	WELL # <u>3-1</u>	LOCATION <u>Beach by 13 12 to 700 3rd to 145</u>			COUNTY <u>Haskell</u>	STATE <u>OK</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>R27</u>	<u>14 S NW into</u>			

CONTRACTOR Murphy & Co OWNER Same

TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 245
CASING SIZE 8 5/8 DEPTH 245
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH

CEMENT AMOUNT ORDERED 210 Can 390 CC
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 14.651 BBL @ 10

COMMON	<u>210</u>	@	<u>17.22</u>	<u>3759.00</u>
POZMIX		@		
GEL		@		
CHLORIDE	<u>7</u>	@	<u>64.00</u>	<u>448.00</u>
ASC		@		
HANDLING	<u>220.5 CC</u>	@	<u>2.48</u>	<u>546.84</u>
MILEAGE	<u>2.00</u>	@	<u>10.66</u>	<u>214.23</u>
				TOTAL <u>6868.07</u>

EQUIPMENT
PUMP TRUCK CEMENTER Alan Ryan
322-287 HELPER Kevin Ryan
BULK TRUCK
396 DRIVER Alex (TWS)
BULK TRUCK
DRIVER

REMARKS:
Run Log, Circulate, Mix cement,
Displace Cement Shut in
Cement Job Circulate
Thud Van
Harry, Henry 10/8

CHARGE TO: Murphy Drilling
STREET
CITY STATE ZIP

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE		@	<u>1512.25</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>80</u>	@	<u>5.20</u> <u>616.00</u>
MANIFOLD		@	<u>275.00</u>
At Vehicle	<u>80</u>	@	<u>4.42</u> <u>352.00</u>
TOTAL <u>2755.25</u>			

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		

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

PRINTED NAME Same
SIGNATURE _____

SALES TAX (If Any)
TOTAL CHARGES 9,623.60
DISCOUNT 3,368.26 IF PAID IN 30 DAYS
6,255.34 Net



CONSOLIDATED
Oil Well Services, LLC

Consolidate
Houst

Accty -
cc: WT
cc: L-1
cc: L-1

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

INVOICE

Invoice # 263271

Invoice Date: 10/23/2013 Terms: 10/10/30,n/30 Page 1

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

WALTER 3-1
44447
1-1-36W
10-17-2013
KS

USED FOR 12 103
APPROVED JR

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	200.00	23.7000	4740.00
1110A	KOL SEAL (50# BAG)	1000.00	.5600	560.00
1104S	CLASS "A" CEMENT (SALE)	300.00	18.5500	5565.00
1102	CALCIUM CHLORIDE (50#)	564.00	.9400	530.16
1101	CAL SEAL	564.00	.5200	293.28
1111A	SODIUM METASILICATE	564.00	2.5200	1421.28
1118B	PREMIUM GEL / BENTONITE	564.00	.2700	152.28
1142A	KCL SUB MB6875 CC3107 (1	2.00	41.1000	82.20
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
1107	FLO-SEAL (25#)	150.00	2.9700	445.50
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4454	5 1/2" LATCH DOWN PLUG	1.00	567.0000	567.00
4136	TURBOLIZER 5 1/2"	15.00	75.7500	1136.25
4104	CEMENT BASKET 5 1/2"	3.00	290.0000	870.00
4315	ROTATING SCRATCHERS	15.00	94.5000	1417.50
4310	5 1/2" ROTATING HEAD	1.00	.0000	.00

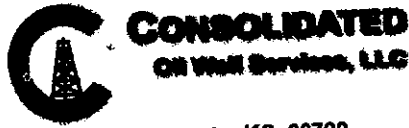
Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-1871.42
9995-130	CEMENT EQUIPMENT DISCOUNT	-678.48

Description	Hours	Unit Price	Total
T-118 SINGLE PUMP	1.00	3175.00	3175.00
T-118 EQUIPMENT MILEAGE (ONE WAY)	75.00	5.25	393.75
T-129 TON MILEAGE DELIVERY	1.00	1608.00	1608.00
566 TON MILEAGE DELIVERY	1.00	1608.00	1608.00

Amount Due 26977.36 if paid after 11/22/2013

Parts:	18714.20	Freight:	.00	Tax:	1330.57	AR	24279.62
Labor:	.00	Misc:	.00	Total:	24279.62		
Sublt:	-2549.90	Supplies:	.00	Change:	.00		

Signed _____ Date _____



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

263271

TICKET NUMBER 44447
LOCATION OAKLEY KS.
FOREMAN DAMON M.
WALT DINKEL
JEREMY FACE

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-17-13	5406	WALTER 3-1	1	1	36W	RAWINS
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
MURFIN DRUG.			456 F118	DANE R		
MAILING ADDRESS			529-T-129	TIM W		
CITY			566	TYLER Ripley		
STATE			RIDEALONG	MIKE		
ZIP CODE						

JOB TYPE LONGSTRING HOLE SIZE 7 7/8 HOLE DEPTH 4500 CASING SIZE & WEIGHT 5 1/2 15.5#
 CASING DEPTH 4485.99 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 10.7-13.8 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 19.51
 DISPLACEMENT 108 DISPLACEMENT PSI _____ MIX PSI _____ RATE 6BPM

REMARKS: SAFETY MEETING RIG UP ON MURFIN #2 RUN FLOAT EQUIPMENT
Cent. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14, 16, 18, 40, 60 BASKETS ON 17, 41, 61
CIRC ON JOINT #61 AND CIRC ON BOTTOM FOR IHR PUMP 500 GAL OF
MUD FLUSH MIX 350 SKS CMO 1/2# FROSEAL TRAILING WITH 200 SKS OF OWC
#5 KOLSEAL CLEAR PUMP AND LINES, release Plug + Displaced 108 BBL
#2 O 900# Lift, Landed Plug @ 1500# release Pressure Float Held
Mixed 20 SKS in R.H
Mixed 30 SKS in R.H
Cement Did Circ
Approx 30 BBL to Perf

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
			3175.00	3175.00
5401C	1	PUMP CHARGE	5.25	393.75
5406	75	MILEAGE	1.75	3,216.00
5407A	24.5	TON MILEAGE DELIVERY	23.70	4,740.00
1126	200 SKS	OWC	.56	560.00
1110A	1000 #	KOLSEAL	18.55	5,565.00
11045	300 SKS	CLASS A CEMENT	.94	530.16
1102	564 #	CALCIUM CHLORIDE	.52	293.28
1101	564 #	CHL SEAL	2.52	1,421.28
1111A	564 #	METASILICATE	.27	152.28
1118B	564 #	BETONITE	41.10	82.20
1142A	2 GAL	KCL	1.00	500.00
1144B	500 GAL	MUD FLUSH	2.97	445.50
1107	150 #	FROSEAL	433.75	433.75
4159	1	5 1/2 AFU FLOAT SHOE	567.00	567.00
4454	1	5 1/2 LATCHDOWN PLUG	75.75	1,136.25
4136	15	TURBOLIZERS	290.00	870.00
4104	3	5 1/2 BASKETS	94.50	1,417.50
4315	15	5' SCRATCHERS		
4310	+	5 1/2 ROTATING HEAD		
Subtotal = 25,498.95				
Less 10% Disc = 2,549.90				
Total = 22,949.05				
			SALES TAX	1,330.57
			ESTIMATED	
			TOTAL	24,279.62
			DATE	7/9/06

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