



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1174783
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: _____

1174783

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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MDCI Walter #2-1 330' FNL 1360' FEL Sec. 1-T1S-R36W 3117' KB							Berexco Cheryl #16-31 660' FSL 760' FEL Sec. 31-T1N-R31W 3078' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3051	+66	-3	3047	+70	+1	3009	+69
B/Anhydrite	3083	+34	+1	3082	+35	+2	3045	+33
Neva	3535	-418	-6	3535	-418	-6	3490	-412
Red Eagle	3597	-480	-5	3597	-480	-5	3553	-475
Foraker	3646	-529	-8	3644	-527	-6	3599	-521
Topeka	3854	-797	-10	3852	-735	-8	3805	-727
Oread	3964	-847	-7	3962	-845	-5	3918	-840
Lansing	4065	-948	-5	4066	-949	-6	4021	-943
Stark	4280	-1163	-4	4277	-1160	-1	4237	-1159
BKC	4332	-1215	-4	4331	-1214	-3	4289	-1211
Pawnee	DNR			DNR			4405	-1327
Cherokee	DNR			DNR			4485	-1407
Mississippi	DNR			DNR			DNR	
RTD	4432	-1315					4585	-1507
LTD				4430	-1313		4587	-1509

Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Murfin Drilling Co. Inc.**

LEASE **Walter #2-1**

FIELD **KB 3117**

LOCATION **3307nl & 13607wl**

SEC **1** TWPSP **1S** RGE **36W** DF **—**

COUNTY **Rawlins** STATE **Kansas** GL **3107**

CONTRACTOR **Murfin Drilling Co. Inc. rig #14** Measurements Are All From **Kelly Busting**

RTD **9/2/2013** COMP **9/11/2013** CASING

SPUD **4432'** LTD **4430'** CONDUCTOR

MUD UP **3300'** TYPE MUD **Chemical** SURFACE **8-5/8" @ 268'**

SAMPLES SAVED FROM **3430' TO 4432'** PRODUCTION **5.12" @ 4429'**

DRILLING TIME KEPT FROM **3430' TO 4432'**

SAMPLES EXAMINED FROM **3430' TO 4432'**

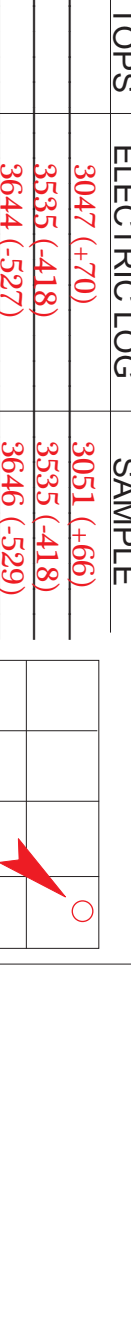
GEOLOGICAL SUPERVISION FROM **3457'**

GEOLOGIST ON WELL **Robert D. Hendrix**

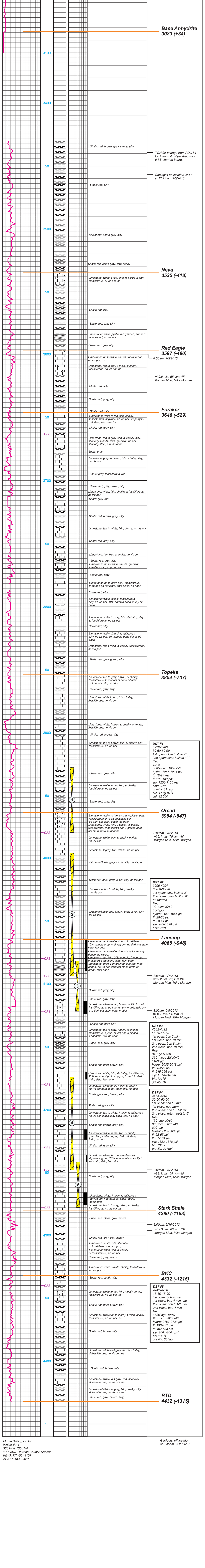
POSTED/INDUCTION/MICRO/SONIC
PROMER ENERGY SERVICES

FORMATION TOPS

FORMATION	ELECTRIC LOG	SAMPLE
Anhydrite	3047 (-70)	3051 (-66)
Neva	3535 (-118)	3535 (-118)
Foraker	3644 (-227)	3646 (-529)
Topeka	3852 (-735)	3854 (-737)
Oread	3962 (-845)	3964 (-847)
Lansing	4066 (-949)	4065 (-948)
Stark Shale	4280 (-1163)	4280 (-1163)
BKC	4331 (-1214)	4332 (-1215)



REMARKS:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Walter #2-1

1-1s-36w Rawlins,KS

Start Date: 2013.09.06 @ 10:50:00

End Date: 2013.09.06 @ 19:07:00

Job Ticket #: 53373 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.11 @ 14:02:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N Water STE #300
 Wichita, KS 67202
 ATTN: Robert Hendrix

1-1s-36w Rawlins,KS
Walter #2-1
 Job Ticket: 53373 **DST#: 1**
 Test Start: 2013.09.06 @ 10:50:00

GENERAL INFORMATION:

Formation: **Oread**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:13:00
 Time Test Ended: 19:07:00
 Interval: **3928.00 ft (KB) To 3980.00 ft (KB) (TVD)**
 Total Depth: 3980.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 66
 Reference Elevations: 3115.00 ft (KB)
 3105.00 ft (CF)
 KB to GR/CF: 10.00 ft

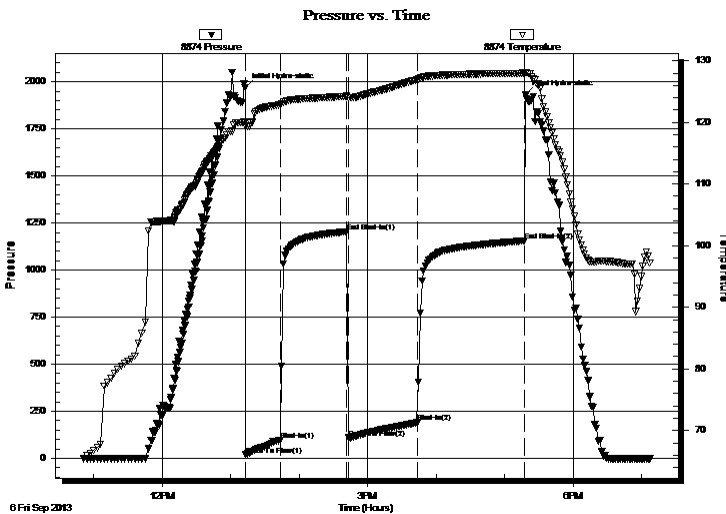
Serial #: 8874

Inside

Press @ Run Depth: 189.45 psig @ 3929.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.06 End Date: 2013.09.06 Last Calib.: 2013.09.06
 Start Time: 10:51:00 End Time: 19:07:00 Time On Btm: 2013.09.06 @ 13:12:30
 Time Off Btm: 2013.09.06 @ 17:18:30

TEST COMMENT: 30 - IF- 1/4" Blow built to 7"
 60 - IS- No Return
 60 - FF- Surface Blow started at 3 min. Built to 10"
 90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1967.91	120.13	Initial Hydro-static
1	18.51	119.51	Open To Flow (1)
31	97.23	122.86	Shut-In(1)
89	1203.62	124.25	End Shut-In(1)
91	109.06	123.96	Open To Flow (2)
151	189.45	126.91	Shut-In(2)
245	1155.14	128.00	End Shut-In(2)
246	1931.61	128.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	OCWM 50M 40W 10o	1.77
10.00	Free Oil 100o	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N Water STE #300
Wichita, KS 67202
ATTN: Robert Hendrix

1-1s-36w Rawlins,KS
Walter #2-1
Job Ticket: 53373 **DST#: 1**
Test Start: 2013.09.06 @ 10:50:00

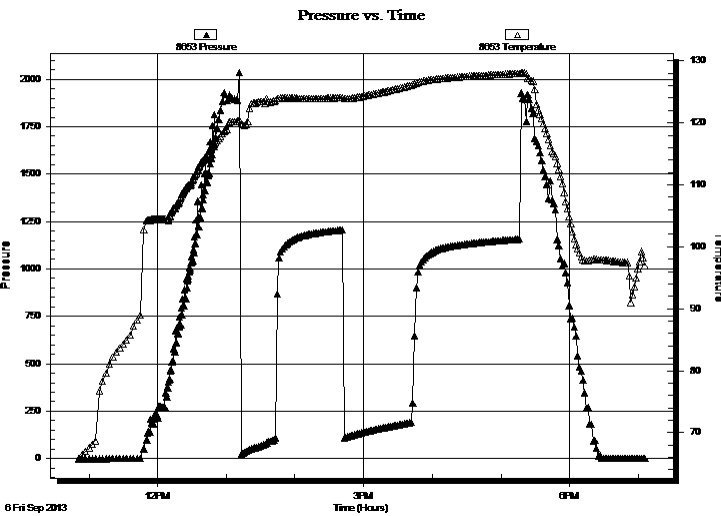
GENERAL INFORMATION:

Formation: **Oread**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:13:00
Time Test Ended: 19:07:00
Interval: **3928.00 ft (KB) To 3980.00 ft (KB) (TVD)**
Total Depth: 3980.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66
Reference Elevations: 3115.00 ft (KB)
3105.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8653 Outside

Press @RunDepth: psig @ 3929.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.09.06 End Date: 2013.09.06 Last Calib.: 2013.09.06
Start Time: 10:51:00 End Time: 19:05:30 Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF- 1/4" Blow built to 7"
60 - IS- No Return
60 - FF- Surface Blow started at 3 min. Built to 10"
90 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
360.00	OCWM 50M 40W 10o	1.77
10.00	Free Oil 100o	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

1-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Walter #2-1

Job Ticket: 53373

DST#: 1

ATTN: Robert Hendrix

Test Start: 2013.09.06 @ 10:50:00

Tool Information

Drill Pipe:	Length: 3394.00 ft	Diameter: 3.80 inches	Volume: 47.61 bbl	Tool Weight: 2500.00 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: 535.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 50.24 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	3928.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	79.00 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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Shut In Tool	5.00			3906.00	
Hydraulic tool	5.00			3911.00	
Jars	5.00			3916.00	
Safety Joint	3.00			3919.00	
Packer	5.00			3924.00	27.00 Bottom Of Top Packer
Packer	4.00			3928.00	
Stubb	1.00			3929.00	
Recorder	0.00	8653	Outside	3929.00	
Recorder	0.00	8874	Inside	3929.00	
Perforations	13.00			3942.00	
Change Over Sub	1.00			3943.00	
Drill Pipe	31.00			3974.00	
Change Over Sub	1.00			3975.00	
Bullnose	5.00			3980.00	52.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

1-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Walter #2-1

Job Ticket: 53373

DST#: 1

ATTN: Robert Hendrix

Test Start: 2013.09.06 @ 10:50:00

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: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	OCWM 50M 40W 10o	1.770
10.00	Free Oil 100o	0.049

Total Length: 370.00 ft Total Volume: 1.819 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API = 36 @ 110 deg = 31 cor
RW .17 @ 87 = 32000ppm32000

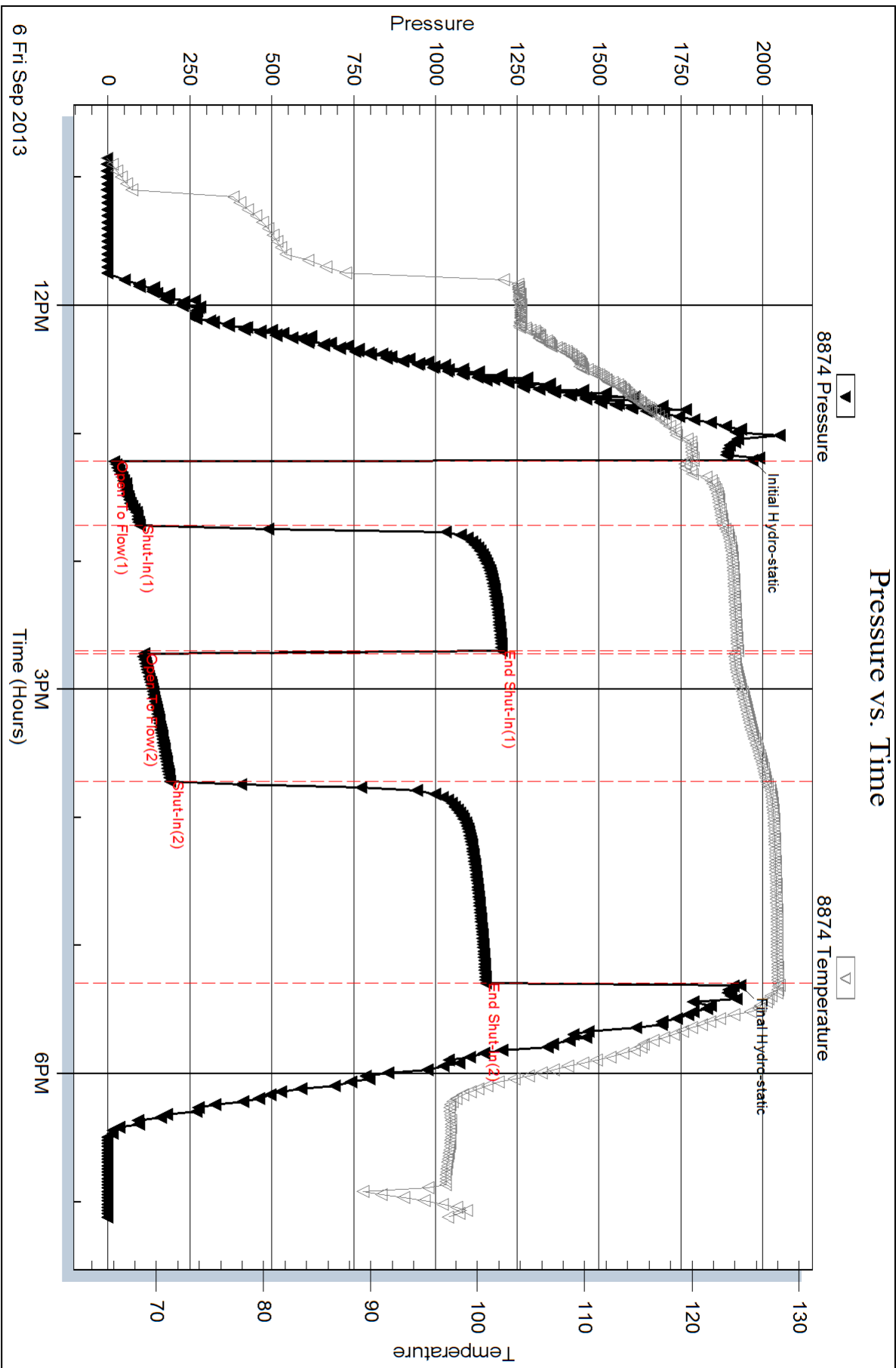
Serial #: 8874

Inside

Murfin Drilling Co.

Walter #2-1

DST Test Number: 1

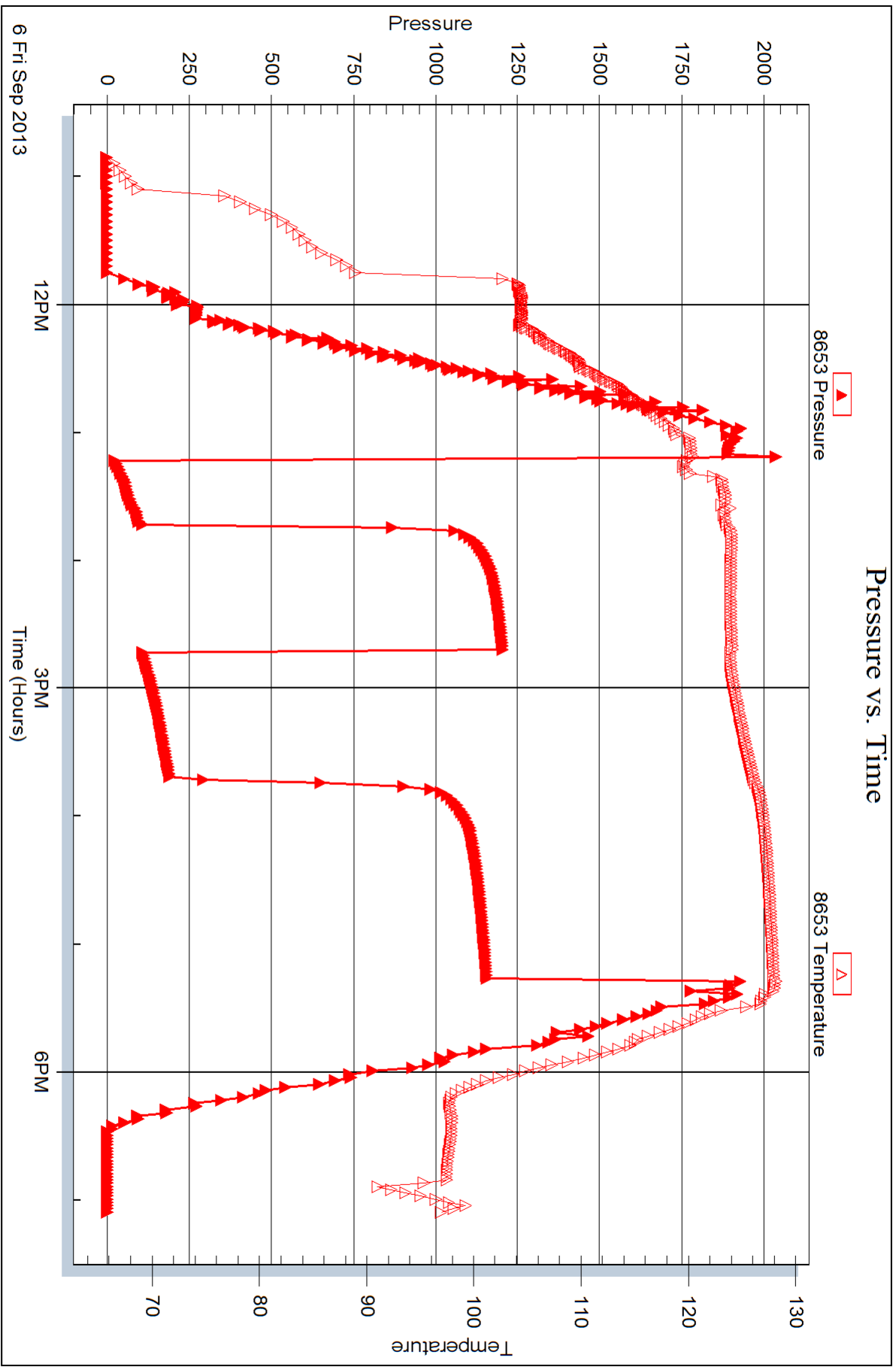


Serial #: 8653

Outside Murfin Drilling Co.

Walter #2-1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 53373

Printed: 2013.09.11 @ 14:02:31



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Walter #2-1

1-1s-36w Rawlins,KS

Start Date: 2013.09.07 @ 08:43:00

End Date: 2013.09.07 @ 16:29:00

Job Ticket #: 53374 DST #: 2

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

Printed: 2013.09.11 @ 14:02:01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N Water STE #300
Wichita, KS 67202
ATTN: Robert Hendrix

1-1s-36w Rawlins,KS
Walter #2-1
Job Ticket: 53374 **DST#: 2**
Test Start: 2013.09.07 @ 08:43:00

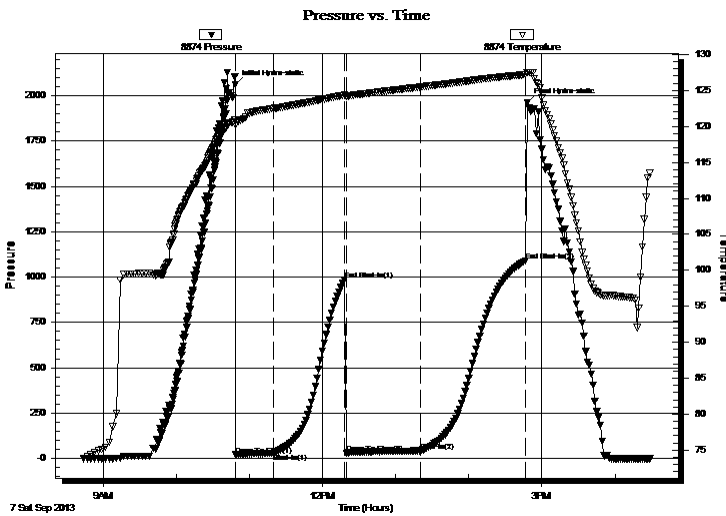
GENERAL INFORMATION:

Formation: **LKC "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:49:00
Time Test Ended: 16:29:00
Interval: **3996.00 ft (KB) To 4094.00 ft (KB) (TVD)**
Total Depth: 4094.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66
Reference Elevations: 3115.00 ft (KB)
3105.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8874 Inside
Press @ Run Depth: 41.50 psig @ 3997.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.09.07 End Date: 2013.09.07 Last Calib.: 2013.09.07
Start Time: 08:44:00 End Time: 16:29:00 Time On Btm: 2013.09.07 @ 10:48:30
Time Off Btm: 2013.09.07 @ 14:48:00

TEST COMMENT: 30 - IF- 1/4" Blow built to 3"
60 - IS- No Return
60 - FF- Surface Blow built to 6"
90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.86	120.88	Initial Hydro-static
1	20.03	120.28	Open To Flow (1)
32	28.95	122.49	Shut-In(1)
90	985.09	124.33	End Shut-In(1)
91	28.27	124.09	Open To Flow (2)
152	41.50	125.46	Shut-In(2)
238	1090.18	127.19	End Shut-In(2)
240	1964.15	127.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OCM 60M 40o	0.44
0.00	180' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

1-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Walter #2-1

Job Ticket: 53374

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.09.07 @ 08:43:00

Tool Information

Drill Pipe:	Length: 3457.00 ft	Diameter: 3.80 inches	Volume: 48.49 bbl	Tool Weight: 2500.00 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: 535.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 51.12 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	3996.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	125.00 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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Shut In Tool	5.00			3974.00	
Hydraulic tool	5.00			3979.00	
Jars	5.00			3984.00	
Safety Joint	3.00			3987.00	
Packer	5.00			3992.00	27.00 Bottom Of Top Packer
Packer	4.00			3996.00	
Stubb	1.00			3997.00	
Recorder	0.00	8653	Outside	3997.00	
Recorder	0.00	8874	Inside	3997.00	
Perforations	28.00			4025.00	
Change Over Sub	1.00			4026.00	
Drill Pipe	62.00			4088.00	
Change Over Sub	1.00			4089.00	
Bullnose	5.00			4094.00	98.00 Bottom Packers & Anchor

Total Tool Length: 125.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

1-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Walter #2-1

Job Ticket: 53374

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.09.07 @ 08:43:00

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: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	OCM 60M 40o	0.443
0.00	180' GIP	0.000

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

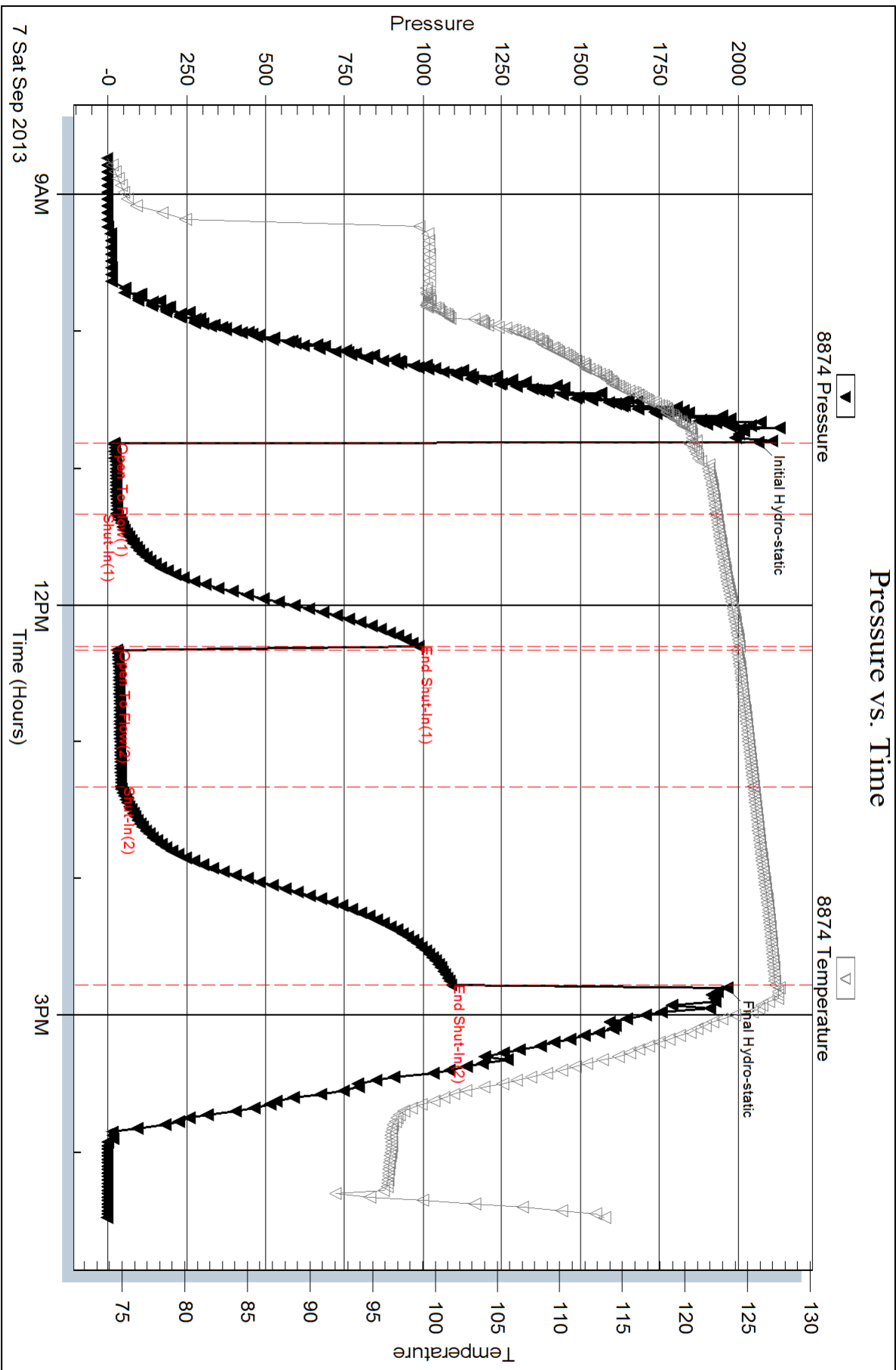
Serial #: 8874

Inside

Murfin Drilling Co.

Walter #2-1

DST Test Number: 2

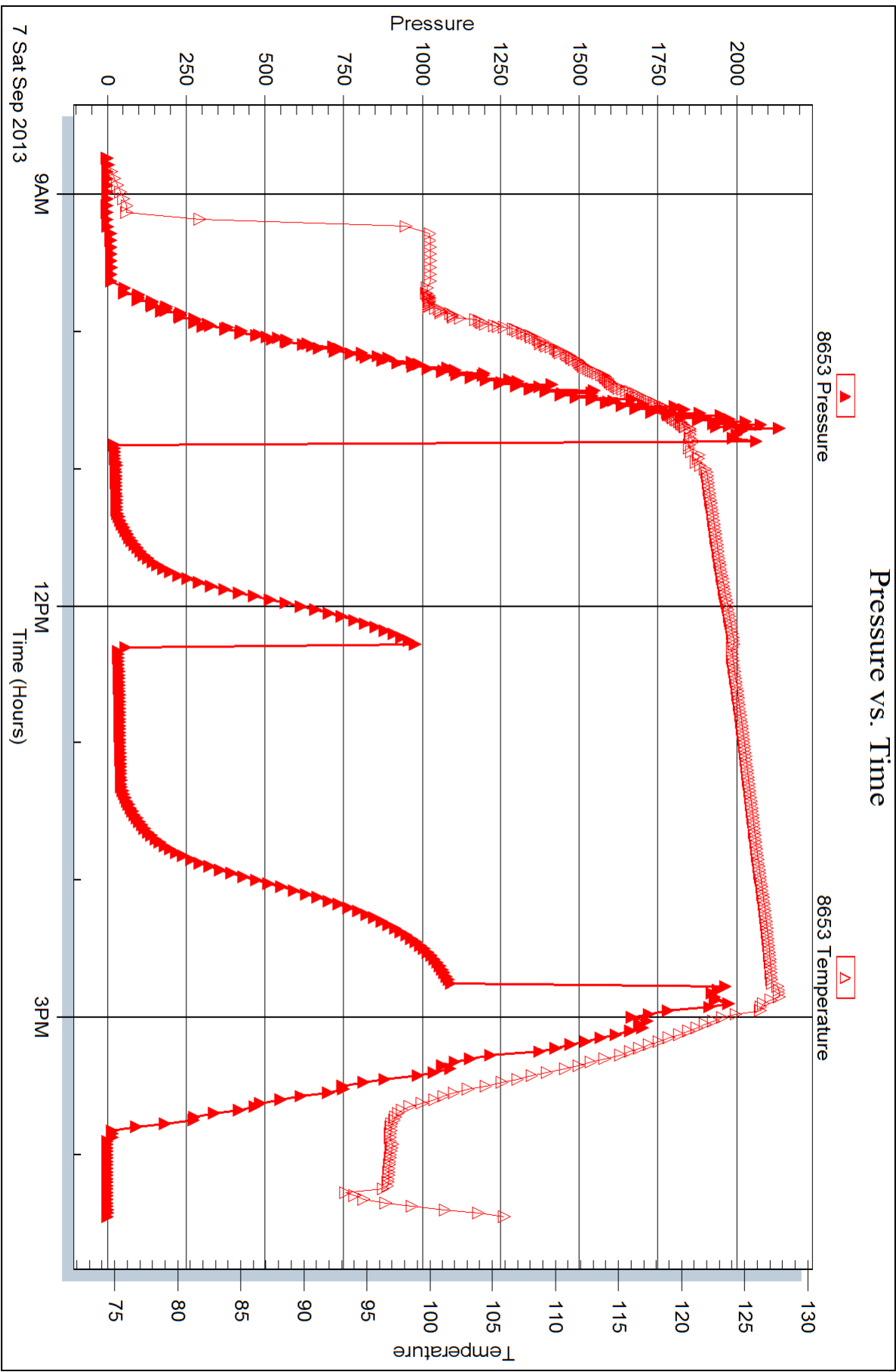


Serial #: 8653

Outside Murfin Drilling Co.

Walter #2-1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Walter #2-1

1-1s-36w Rawlins,KS

Start Date: 2013.09.07 @ 23:07:00

End Date: 2013.09.08 @ 05:48:00

Job Ticket #: 53375 DST #: 3

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

Printed: 2013.09.11 @ 14:01:38



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N Water STE #300
Wichita, KS 67202
ATTN: Robert Hendrix

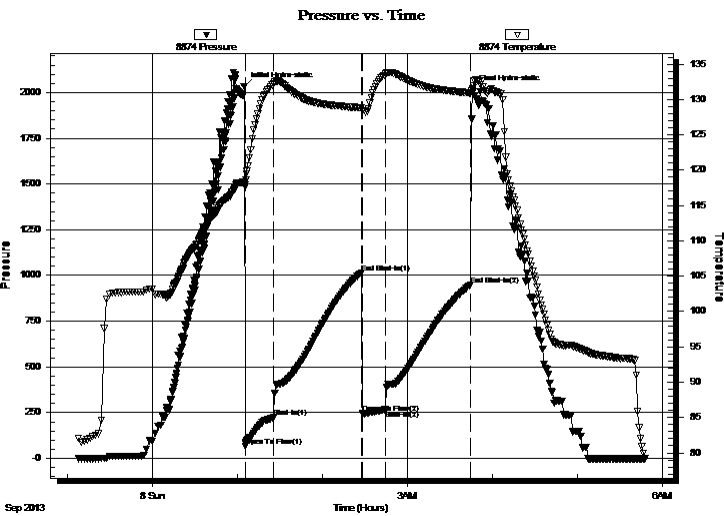
1-1s-36w Rawlins,KS
Walter #2-1
Job Ticket: 53375 **DST#: 3**
Test Start: 2013.09.07 @ 23:07:00

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:05:30
Time Test Ended: 05:48:00
Interval: **4082.00 ft (KB) To 4122.00 ft (KB) (TVD)**
Total Depth: 4082.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66
Reference Elevations: 3115.00 ft (KB)
3105.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8874 Inside
Press @ RunDepth: 266.32 psig @ 4083.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.09.07 End Date: 2013.09.08 Last Calib.: 2013.09.08
Start Time: 23:08:00 End Time: 05:48:00 Time On Btm: 2013.09.08 @ 01:05:10
Time Off Btm: 2013.09.08 @ 03:46:00

TEST COMMENT: 15 - IF - BoB in 2 min.
60 - ISI - Return built to BoB in 10 min
15 - FF - BoB in 8 min.
60 - FSI - Return built to BoB in 10 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2035.05	118.33	Initial Hydro-static
1	66.19	117.62	Open To Flow (1)
21	222.94	132.22	Shut-In(1)
83	1014.23	128.85	End Shut-In(1)
84	245.96	128.38	Open To Flow (2)
100	266.32	133.57	Shut-In(2)
160	948.31	130.91	End Shut-In(2)
161	2018.48	131.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
340.00	Clean Gassy Oil 50o 50G	1.67
360.00	GMCO 40G 40o 20M	3.27
0.00	1,100' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N Water STE #300
Wichita, KS 67202
ATTN: Robert Hendrix

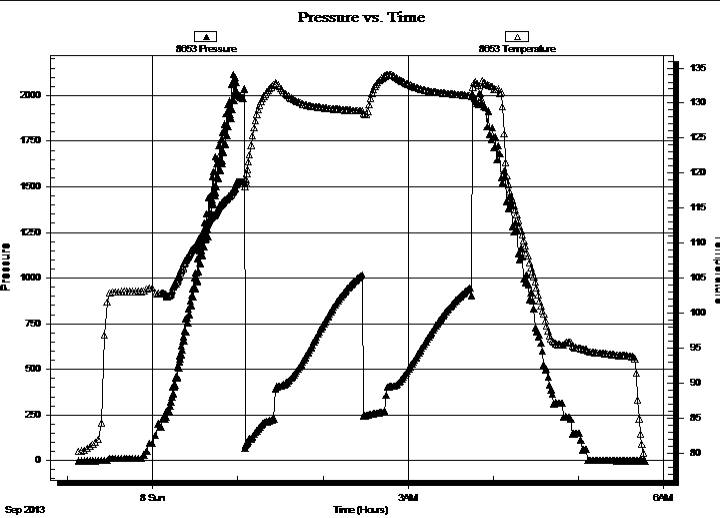
1-1s-36w Rawlins,KS
Walter #2-1
Job Ticket: 53375 **DST#: 3**
Test Start: 2013.09.07 @ 23:07:00

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:05:30
Time Test Ended: 05:48:00
Interval: **4082.00 ft (KB) To 4122.00 ft (KB) (TVD)**
Total Depth: 4082.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66
Reference Elevations: 3115.00 ft (KB)
3105.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8653 Outside
Press @ Run Depth: psig @ 4083.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.09.07 End Date: 2013.09.08 Last Calib.: 2013.09.08
Start Time: 23:08:00 End Time: 05:47:00 Time On Btm:
Time Off Btm:

TEST COMMENT: 15 - IF - BoB in 2 min.
60 - ISI - Return built to BoB in 10 min
15 - FF - BoB in 8 min.
60 - FSI - Return built to BoB in 10 min.



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

Recovery		
Length (ft)	Description	Volume (bbl)
340.00	Clean Gassy Oil 50o 50G	1.67
360.00	GMCO 40G 40o 20M	3.27
0.00	1,100' GIP	0.00

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

1-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Walter #2-1

Job Ticket: 53375

DST#: 3

ATTN: Robert Hendrix

Test Start: 2013.09.07 @ 23:07:00

Tool Information

Drill Pipe:	Length: 3552.00 ft	Diameter: 3.80 inches	Volume: 49.83 bbl	Tool Weight: 2500.00 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: 535.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 52.46 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4082.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	67.00 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			4060.00	
Hydraulic tool	5.00			4065.00	
Jars	5.00			4070.00	
Safety Joint	3.00			4073.00	
Packer	5.00			4078.00	27.00 Bottom Of Top Packer
Packer	4.00			4082.00	
Stubb	1.00			4083.00	
Recorder	0.00	8653	Outside	4083.00	
Recorder	0.00	8874	Inside	4083.00	
Perforations	1.00			4084.00	
Change Over Sub	1.00			4085.00	
Drill Pipe	31.00			4116.00	
Change Over Sub	1.00			4117.00	
Bullnose	5.00			4122.00	40.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

1-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Walter #2-1

Job Ticket: 53375

DST#: 3

ATTN: Robert Hendrix

Test Start: 2013.09.07 @ 23:07:00

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: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
340.00	Clean Gassy Oil 50o 50G	1.672
360.00	GMCO 40G 40o 20M	3.273
0.00	1,100' GIP	0.000

Total Length: 700.00 ft Total Volume: 4.945 bbl

Num Fluid Samples: 0

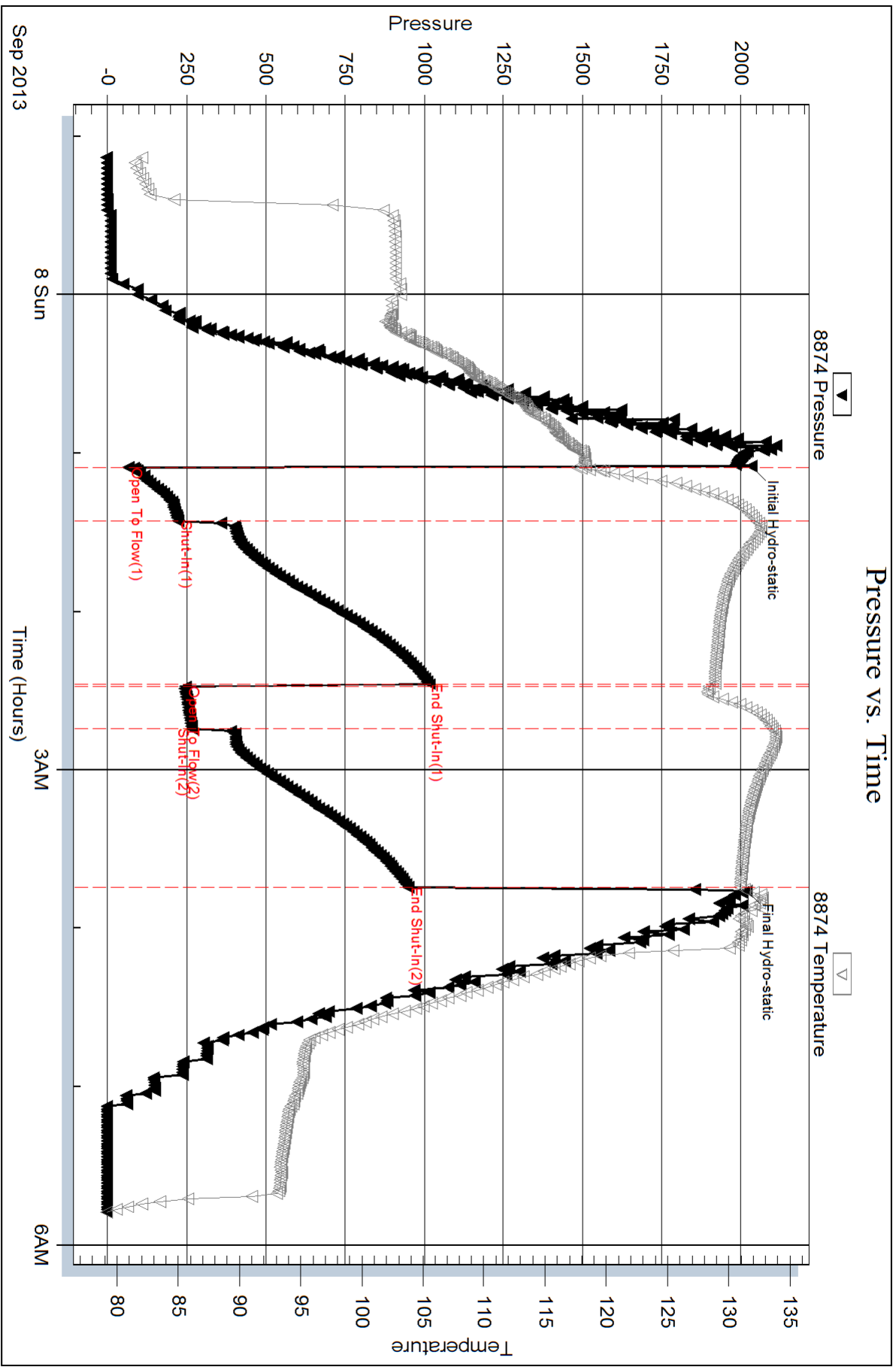
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 37 @90 deg=34cor

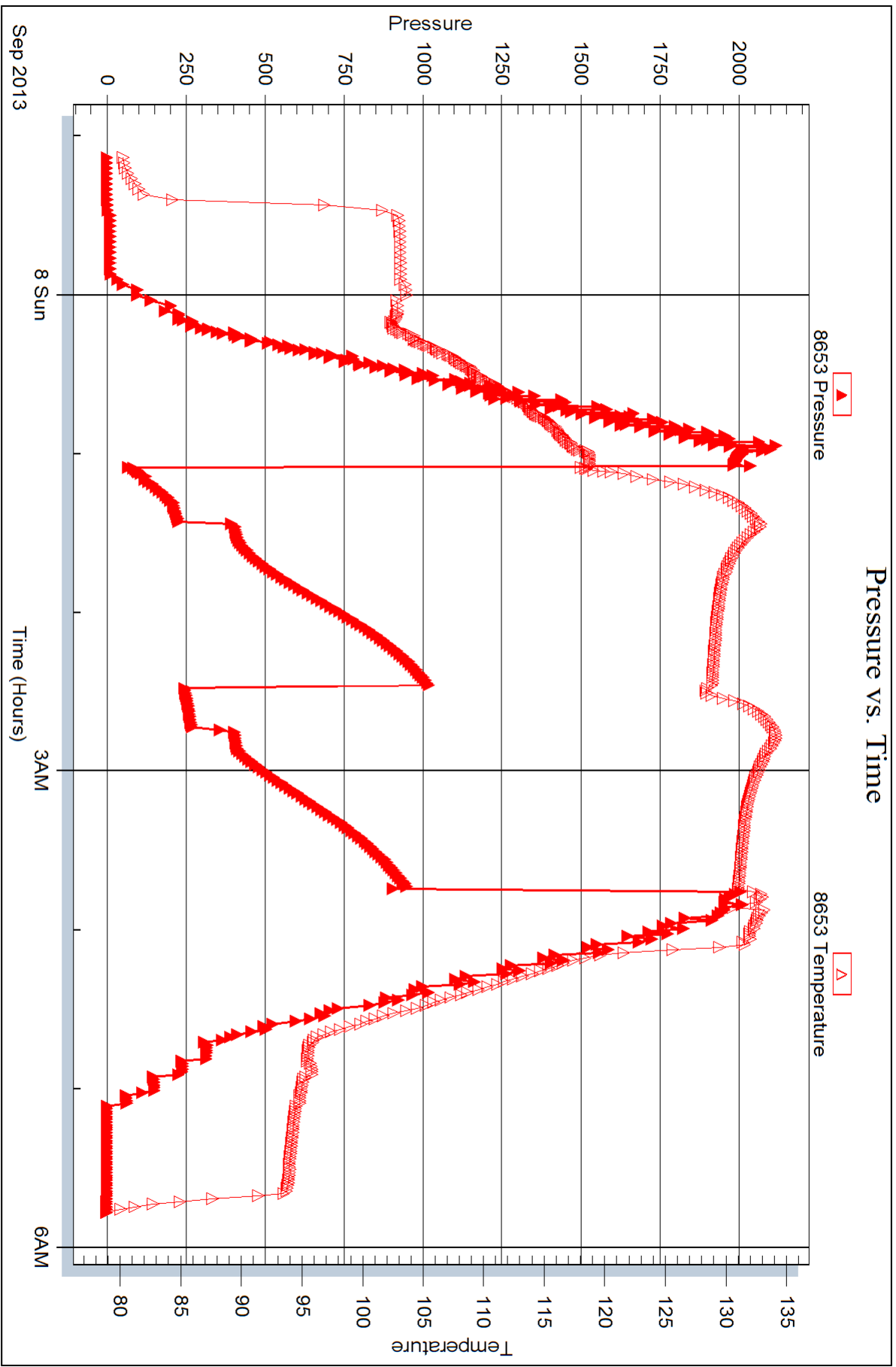


Serial #: 8653

Outside Murfin Drilling Co.

Walter #2-1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Walter #2-1

1-1s-36w Rawlins,KS

Start Date: 2013.09.09 @ 03:40:00

End Date: 2013.09.09 @ 11:14:30

Job Ticket #: 53526 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.11 @ 14:01:10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

1-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Walter #2-1

ATTN: Robert Hendrix

Job Ticket: 53526

DST#: 4

Test Start: 2013.09.09 @ 03:40:00

GENERAL INFORMATION:

Formation: **LKC "H-I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:32:40

Time Test Ended: 11:14:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4174.00 ft (KB) To 4248.00 ft (KB) (TVD)

Reference Elevations: 3115.00 ft (KB)

Total Depth: 4248.00 ft (KB) (TVD)

3105.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8653 Outside

Press @ Run Depth: 104.43 psig @ 4175.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.09

End Date:

2013.09.09

Last Calib.:

2013.09.09

Start Time:

03:41:00

End Time:

11:14:30

Time On Btm:

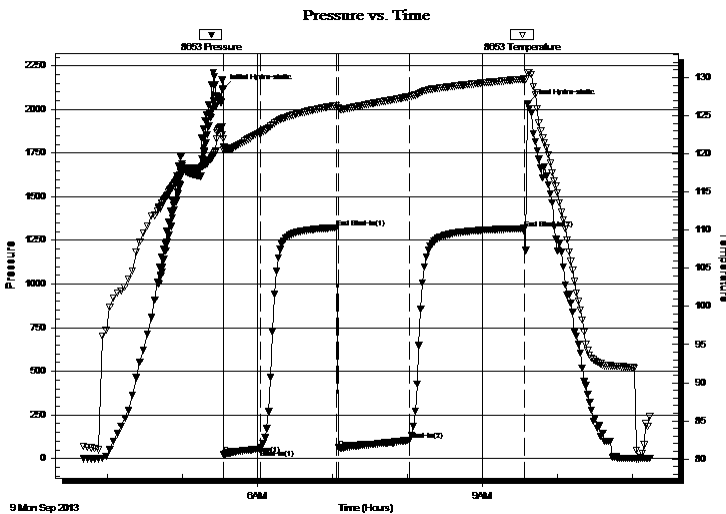
2013.09.09 @ 05:32:30

Time Off Btm:

2013.09.09 @ 09:36:00

TEST COMMENT: 30 - IF - BoB in 18 min
60 - ISI - No Return
60 - FF - BoB in 18 1/2 min.
90 - FSI - Weak Surface Return built to 5"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2119.11	121.95	Initial Hydro-static
1	22.78	120.55	Open To Flow (1)
30	55.15	122.78	Shut-In(1)
91	1323.09	126.37	End Shut-In(1)
92	61.52	125.99	Open To Flow (2)
149	104.43	127.50	Shut-In(2)
241	1318.32	129.81	End Shut-In(2)
244	2035.50	130.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GOCM 30G 30o 40M	0.44
130.00	Clean Gassy Oil 40G 60o	0.64
0.00	800' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

1-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Walter #2-1

Job Ticket: 53526

DST#: 4

ATTN: Robert Hendrix

Test Start: 2013.09.09 @ 03:40:00

Tool Information

Drill Pipe:	Length: 3616.00 ft	Diameter: 3.80 inches	Volume: 50.72 bbl	Tool Weight:	2500.00 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: 535.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose:	84000.00 lb
			<u>Total Volume: 53.35 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	4174.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	74.00 ft				
Tool Length:	102.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4147.00	
Shut In Tool	5.00			4152.00	
Hydraulic tool	5.00			4157.00	
Jars	5.00			4162.00	
Safety Joint	3.00			4165.00	
Packer	5.00			4170.00	28.00 Bottom Of Top Packer
Packer	4.00			4174.00	
Stubb	1.00			4175.00	
Recorder	0.00	8653	Outside	4175.00	
Recorder	0.00	8874	Inside	4175.00	
Perforations	4.00			4179.00	
Change Over Sub	1.00			4180.00	
Drill Pipe	62.00			4242.00	
Change Over Sub	1.00			4243.00	
Bullnose	5.00			4248.00	74.00 Bottom Packers & Anchor

Total Tool Length: 102.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

1-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Walter #2-1

Job Ticket: 53526

DST#: 4

ATTN: Robert Hendrix

Test Start: 2013.09.09 @ 03:40:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 550.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	GOCM 30G 30o 40M	0.443
130.00	Clean Gassy Oil 40G 60o	0.639
0.00	800' GIP	0.000

Total Length: 220.00 ft Total Volume: 1.082 bbl

Num Fluid Samples: 0

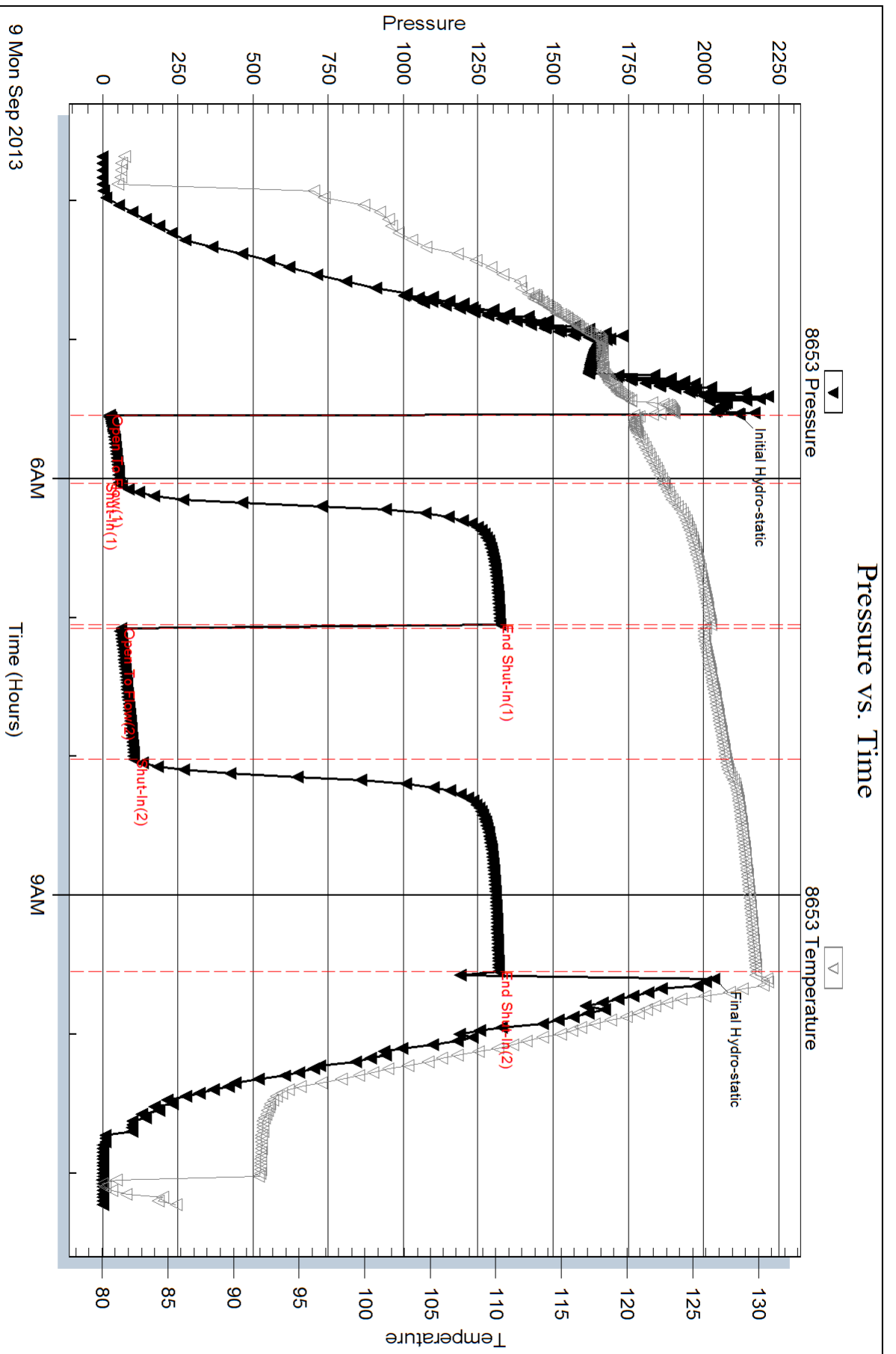
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 34 @ 90 deg = 31 cor.



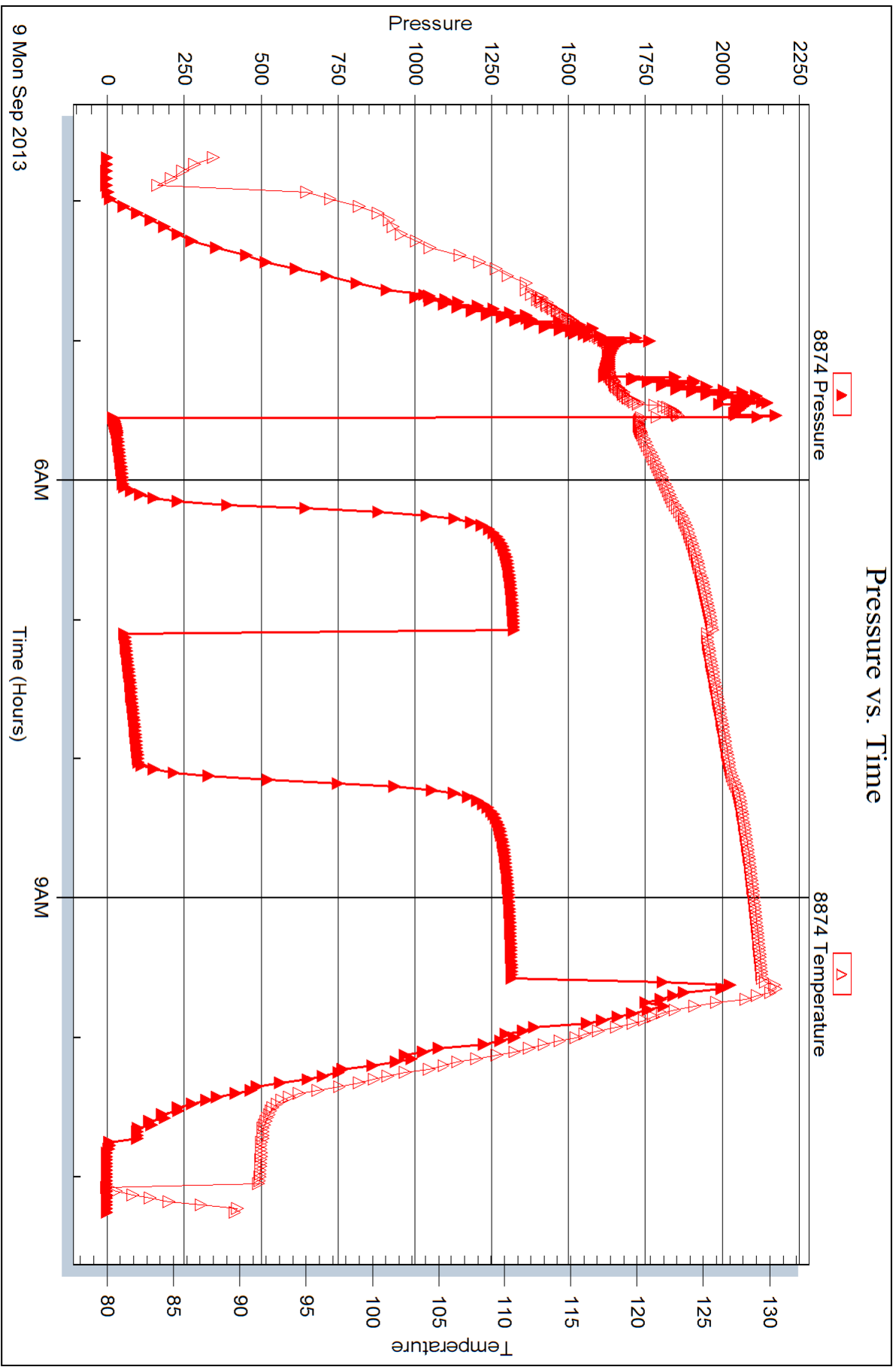
Serial #: 8874

Inside

Murfin Drilling Co.

Walter #2-1

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 53526

Printed: 2013.09.11 @ 14:01:11



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Walter #2-1

1-1s-36w Rawlins,KS

Start Date: 2013.09.09 @ 19:05:00

End Date: 2013.09.10 @ 04:37:00

Job Ticket #: 53527 DST #: 5

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

Printed: 2013.09.11 @ 14:00:42



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

1-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Walter #2-1

Job Ticket: 53527

DST#: 5

ATTN: Robert Hendrix

Test Start: 2013.09.09 @ 19:05:00

Tool Information

Drill Pipe:	Length: 3712.00 ft	Diameter: 3.80 inches	Volume: 52.07 bbl	Tool Weight:	2500.00 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: 535.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 54.70 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	4242.00 ft			Final	80000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	64.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

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

Change Over Sub	1.00			4215.00	
Shut In Tool	5.00			4220.00	
Hydraulic tool	5.00			4225.00	
Jars	5.00			4230.00	
Safety Joint	3.00			4233.00	
Packer	5.00			4238.00	28.00 Bottom Of Top Packer
Packer	4.00			4242.00	
Stubb	1.00			4243.00	
Recorder	0.00	8653	Outside	4243.00	
Recorder	0.00	8874	Inside	4243.00	
Perforations	30.00			4273.00	
Bullnose	5.00			4278.00	36.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

1-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Walter #2-1

Job Ticket: 53527

DST#: 5

ATTN: Robert Hendrix

Test Start: 2013.09.09 @ 19:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 650.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	GOCM 30G 30o 40M	0.443
1830.00	Clean Gassy Oil 40G 60o	21.616
0.00	GTS	0.000

Total Length: 1920.00 ft Total Volume: 22.059 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

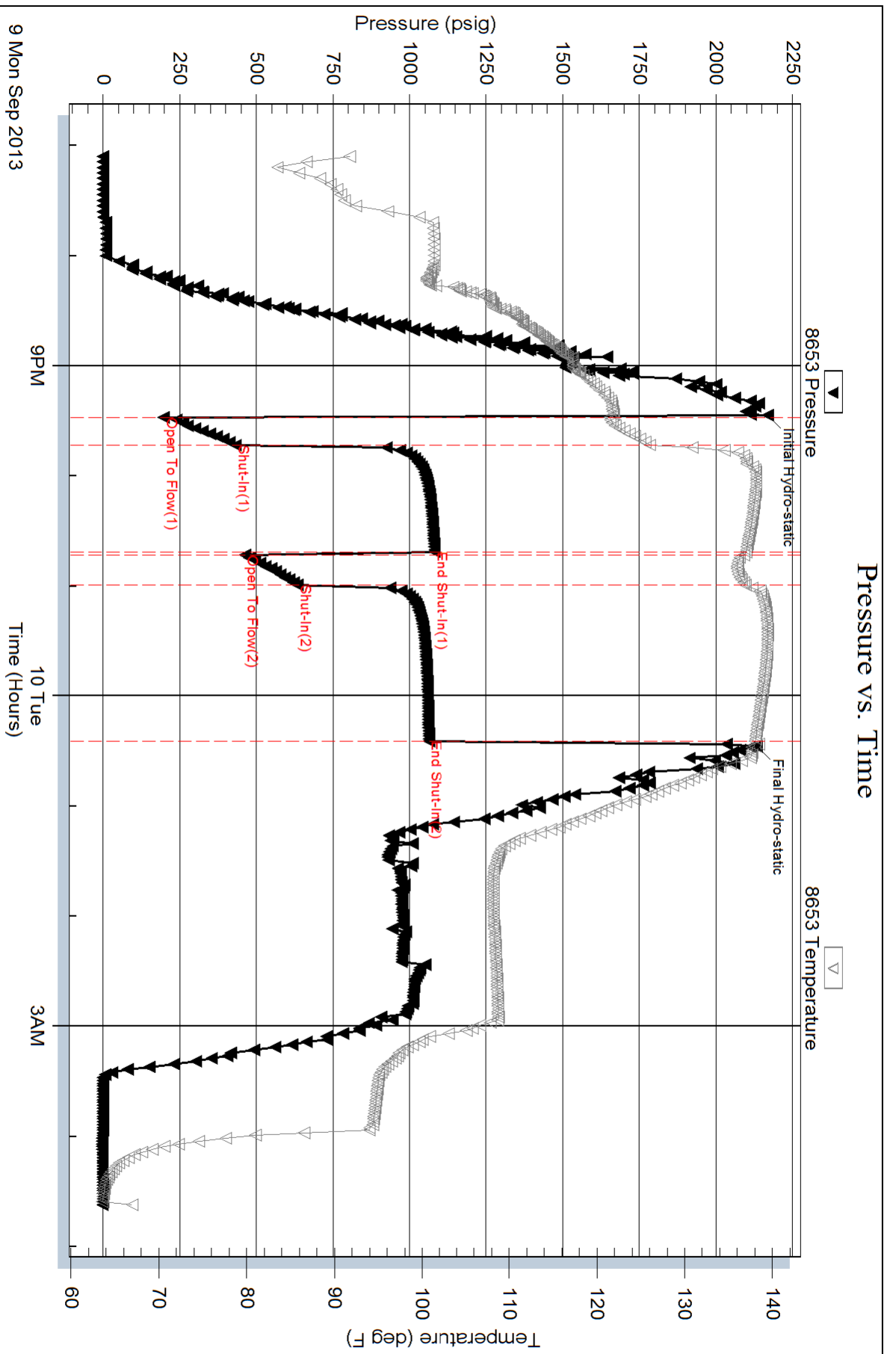
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API = 37 @ 80 deg = 35cor.

Dropped Bar to Reverse Fluid



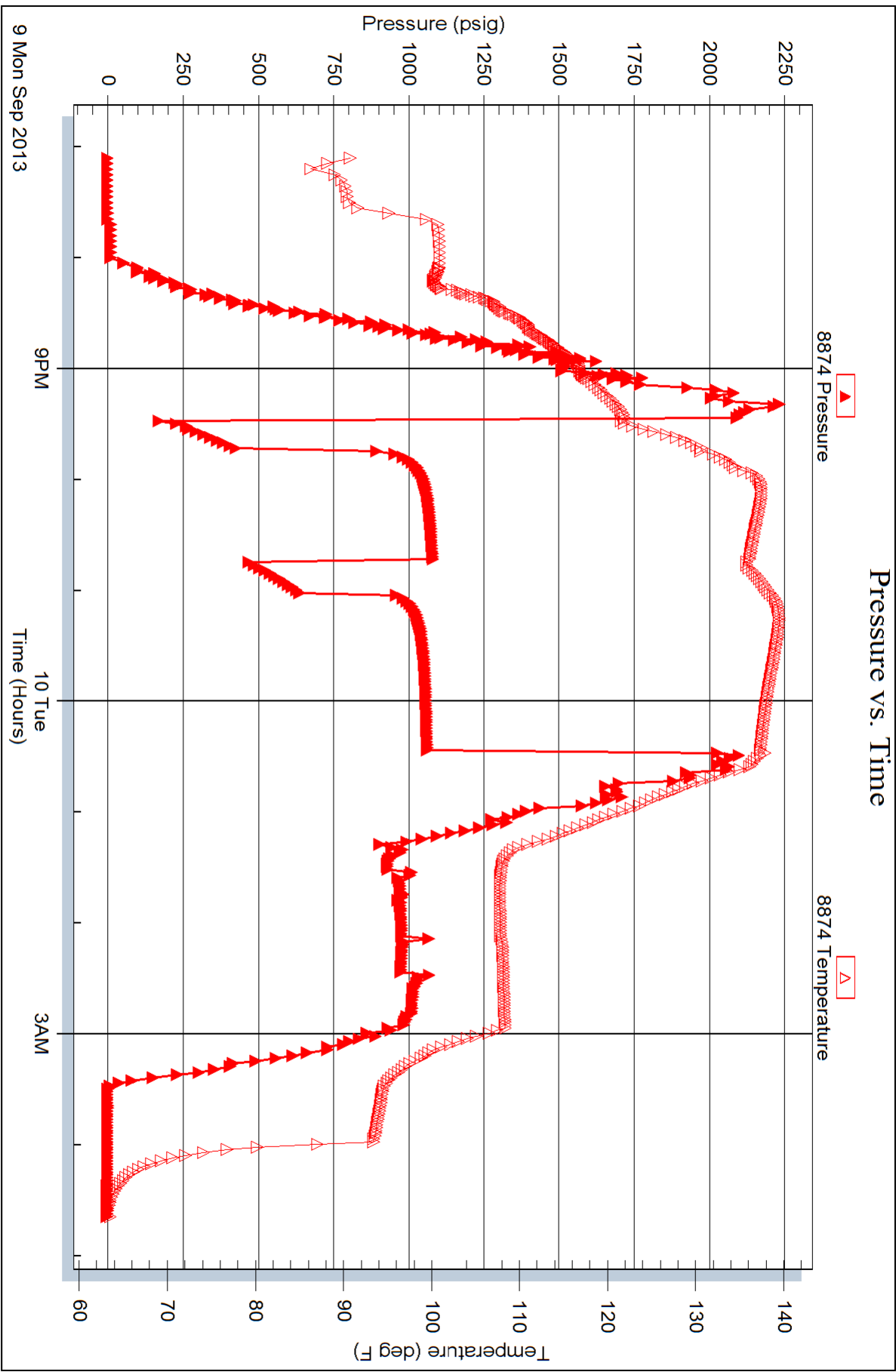
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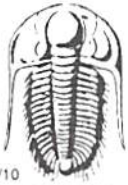
Inside

Murfin Drilling Co.

Walter #2-1

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53373

4/10

Well Name & No. Walter #2-1 Test No. 1 Date 9-6-13
 Company Muffin Drilling Co. Elevation 3115 KB 3105 GL
 Address 2505 N Walter STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Muffin #14
 Location: Sec. 1 Twp. 1S Rge. 36 W Co. Rawlins State KS

Interval Tested 3928-3980 Zone Tested Oreol
 Anchor Length 52' Drill Pipe Run 3394 Mud Wt. 9.1
 Top Packer Depth 3924 Drill Collars Run 535' Vis 7x
 Bottom Packer Depth 3928 Wt. Pipe Run Ø WL 4.8
 Total Depth 3928 Chlorides 6000 ppm System LCM 4#

Blow Description IF-1/4" Blow built to 7"
ISI- No Return
FF-Surface Blow started at 3 min. Built to 10"
FSI- NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>Free Oil</u>	<u>1000</u>			
<u>300</u>	<u>OC WM</u>	<u>10</u>	<u>40</u>	<u>50</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 370 BHT 128 Gravity 31 API RW .17 @ 87 °F Chlorides 32,000 ppm
 (A) Initial Hydrostatic 1967 Test 1150 T-On Location 9:45 AM
 (B) First Initial Flow 18 Jars 250 T-Started 10:50 AM
 (C) First Final Flow 97 Safety Joint 75 T-Open 1:15 PM
 (D) Initial Shut-In 1203 Circ Sub NIC T-Pulled 5:15 PM
 (E) Second Initial Flow 109 Hourly Standby _____ T-Out 7:20 PM
 (F) Second Final Flow 189 Mileage 114 RT 176.70 Comments _____
 (G) Final Shut-In 1155 Sampler _____
 (H) Final Hydrostatic 1931 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1651.70
 Total 1651.70
 MP/DST Disc't _____

Approved By _____ Our Representative

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53374

Well Name & No. Walter #2-1 Test No. 2 Date 9-7-13
 Company Murrin Drilling Co. Elevation 3115 KB 3105 GL
 Address 250 N Water STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murrin #14
 Location: Sec. 1 Twp. 1S Rge. 36W Co. Rawlins State KS

Interval Tested 3996-4094 Zone Tested LKC "A"
 Anchor Length 98' Drill Pipe Run 3457 Mud Wt. 9.2
 Top Packer Depth 3992 Drill Collars Run 535' Vis 70
 Bottom Packer Depth 3996 Wt. Pipe Run 0 WL 5.6
 Total Depth 4094 Chlorides 7000 ppm System LCM 2#

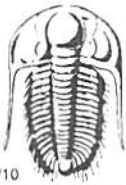
Blow Description IF - 1/4" Built to 3"
ISI - No Return
FF - Surface Blow built to 6"
FST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>OCM</u>	<u>40</u>	<u>0</u>	<u>60</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>180</u>	Feet of <u>GIP</u>	<u>1000</u> %gas	%oil	%water	%mud
Rec Total <u>90</u>	BHT <u>127</u>	Gravity	API RW	@	° F Chlorides ppm

(A) Initial Hydrostatic 2063 Test 1250 T-On Location 8:40 AM
 (B) First Initial Flow 208 Jars 250 T-Started 8:43 AM
 (C) First Final Flow 28 Safety Joint 75 T-Open 10:50 AM
 (D) Initial Shut-In 985 Circ Sub N/C T-Pulled 2:50 PM
 (E) Second Initial Flow 28 Hourly Standby T-Out 4:40 PM
 (F) Second Final Flow 41 Mileage 114 RT 176.70 Comments
 (G) Final Shut-In 1090 Sampler
 (H) Final Hydrostatic 1964 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1751.70
 Accessibility MP/DST Disc't
 Sub Total 1751.70

Approved By _____ Our Representative

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53375

Well Name & No. Walter #2-1 Test No. 3 Date 9-7-13
 Company Murfin Drilling Co. Elevation 3115 KB 3105 GL
 Address 2500 N Walter STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #14
 Location: Sec. 1 Twp. 1S Rge. 36W Co. Rawlins State KS

Interval Tested 4082-4122 Zone Tested LKC "D"
 Anchor Length 408 Drill Pipe Run 3552 Mud Wt. 9.2
 Top Packer Depth 4078 Drill Collars Run 535' Vis 70
 Bottom Packer Depth 4082 Wt. Pipe Run 0 WL 5.6
 Total Depth 4122 Chlorides 7000 ppm System LCM 2#

Blow Description IF-BoB in 2 min.
ISI- Return Built to BoB in 10 min
FF-BoB in 8 min

FSI- Return Built to BoB in 10 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>340</u>	<u>Clean Gassy Oil</u>	<u>50</u>	<u>50</u>		
<u>360</u>	<u>GMCO</u>	<u>40</u>	<u>40</u>		<u>20</u>
<u>1,100</u>	<u>GIP</u>	<u>1000</u>			

Rec Total 7000 BHT 131 Gravity 34 API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>2035</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>10:45 PM</u>
(B) First Initial Flow <u>66</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>11:07 PM</u>
(C) First Final Flow <u>222</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>2:13 AM</u>
(D) Initial Shut-In <u>1014</u>	<input checked="" type="checkbox"/> Circ Sub	T-Pulled <u>4:43 AM</u>
(E) Second Initial Flow <u>245</u>	<input type="checkbox"/> Hourly Standby	T-Out
(F) Second Final Flow <u>266</u>	<input checked="" type="checkbox"/> Mileage <u>114RT</u> 176.70	Comments
(G) Final Shut-In <u>948</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2018</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 15 Shale Packer
 Initial Shut-In 60 Shale Packer
 Final Flow 15 Extra Packer
 Final Shut-In 60 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1751.70
 Total 1751.70
 MP/DST Disc't

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53526

Well Name & No. Walter #2-1 Test No. 4 Date 9-9-13
 Company Murphy Drilling Co. Elevation 3115 KB 3105 GL
 Address 2500 N Walter STE #300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murphy #14
 Location: Sec. 1 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4174-4248 Zone Tested Like "H-I"
 Anchor Length 74' Drill Pipe Run 3616' Mud Wt. 9.1
 Top Packer Depth 4170 Drill Collars Run 535' Vis 51
 Bottom Packer Depth 4174 Wt. Pipe Run Ø WL 5.2
 Total Depth 4248 Chlorides 550 ppm System LCM 2#

Blow Description IF - Bob in 18 min.
ISI - No Return
FF - Bob in 18 1/2 min.
FSI - Weak surface return Built to 5"

Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>Feet of Ckn Gassy Oil</u>	<u>40</u>	<u>60</u>		
<u>90</u>	<u>Feet of GOCM</u>	<u>30</u>	<u>Ø</u>	<u>40</u>	
			<u>30</u>		
<u>800</u>	<u>Feet of GIP</u>	<u>1000</u>			

Rec Total 2200' BHT 130 Gravity 31 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2119 Test 1250 T-On Location 3:35 AM
 (B) First Initial Flow 22 Jars 250 T-Started 3:40 AM
 (C) First Final Flow 55 Safety Joint 75 T-Open 5:35 AM
 (D) Initial Shut-In 1323 Circ Sub NIL T-Pulled 9:35 AM
 (E) Second Initial Flow 61 Hourly Standby _____ T-Out 11:25 AM

(F) Second Final Flow 104 Mileage 114RT 176.70
 (G) Final Shut-In 1318 Sampler _____
 (H) Final Hydrostatic 2035 Straddle _____

Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____

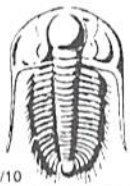
Initial Open 30 Extra Copies _____
 Initial Shut-In 60 Sub Total 0

Final Flow 600 Total 1751.70
 Final Shut-In 90 MP/DST Disc't _____

Sub Total 1751.70

Approved By _____ Our Representative [Signature]

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53527

Well Name & No. Walter #2-1 Test No. 5 Date 9-9-13
 Company Murfin Drilling Co Elevation 3115 KB 3105 GL
 Address 250 N Walter STE #300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #14
 Location: Sec. 1 Twp. 15 Rge. 36w Co. Rawlins State KS

Interval Tested 4242-4278 Zone Tested LKC "J"
 Anchor Length 36' Drill Pipe Run 3712 Mud Wt. 9.3
 Top Packer Depth 4238 Drill Collars Run 535 Vis 55
 Bottom Packer Depth 4242 Wt. Pipe Run Ø WL 5.6
 Total Depth 4278 Chlorides 650 ppm System LCM 4#

Blow Description IF- Bob in 45 sec.
ISI- Bob in 4 min
FF- Bob in 1 1/2 min.
FSI- Bob in 4 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>1830</u>	<u>Clean Gassy oil</u>	<u>40</u>	<u>60</u>		
<u>90</u>	<u>GDGM</u>	<u>30</u>	<u>30</u>	<u>40</u>	

Rec Total 1920 BHT 138° Gravity 35 API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 2167 Test 1250 T-On Location 6:30 PM
 (B) First Initial Flow 196 Jars 250 T-Started 7:05 PM
 (C) First Final Flow 432 Safety Joint 75 T-Open 9:28 PM
 (D) Initial Shut-In 1081 Circ Sub XCharge 50 T-Pulled 12:28 AM
 (E) Second Initial Flow 462 Hourly Standby _____ T-Out 4:50 AM

(F) Second Final Flow 633 Mileage 114RT 176.70
 (G) Final Shut-In 1061 Sampler _____
 (H) Final Hydrostatic 2133 Straddle _____

Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer 320
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 15
 Initial Shut-In 60
 Final Flow 15
 Final Shut-In 90
 Sub Total 1801.70

Approved By _____ Our Representative [Signature]

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PO Box 93999
Southlake, TX 76092

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

PROD COPY

INVOICE

Invoice Number: 138428
Invoice Date: Sep 2, 2013
Page: 1

acct.
Prod-LH

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	60744	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Sep 2, 2013	10/2/13

Quantity	Item	Description	Unit Price	Amount
		Walter #2-1		
225.00	CEMENT MATERIALS	Class A Common	17.90	4,027.50
8.00	CEMENT MATERIALS	Chloride	64.00	512.00
236.00	CEMENT SERVICE	Cubic Feet	2.48	585.28
980.29	CEMENT SERVICE	Ton Mileage	2.60	2,548.75
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
90.00	CEMENT SERVICE	Pump Truck Mileage	7.70	693.00
90.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	396.00
1.00	CEMENT SUPERVISOR	Kelly Gabel		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	OPERATOR ASSISTANT	Chris Helpingstine		

Account	Dist. Fig.	W. No.	Amount	Description
ED203	3	8663.0002	4037.23	Cement S. Csg.
				# 2-1

Subtotal	10,274.78
Sales Tax	358.62
Total Invoice Amount	10,633.40
Payment/Credit Applied	
TOTAL	10,633.40

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

\$ 3,596.17

ONLY IF PAID ON OR BEFORE
Sep 27, 2013

(3596.17)
7037.23

Accty -

cc: W/T
cc: L/S
cc: L-1



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



Invoice

DATE	INVOICE #
9/11/2013	25103

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661
USED FOR <u>IC 193</u>
APPROVED <u>[Signature]</u>

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-1	Walter	Rawlins	Company Rig	Oil	Development	Cement LongStri...	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				140	Miles	6.00	840.00
578D-L	Pump Charge - Long String - 4429 Feet				1	Job	1,500.00	1,500.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
290	D-Air				5	Gallon(s)	42.00	210.00T
403-5	5 1/2" Cement Basket				3	Each	285.00	855.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	275.00	275.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	375.00	375.00T
409-5	5 1/2" Turbolizer				15	Each	90.00	1,350.00T
413-5	5 1/2" Roto Wall Scratcher				10	Each	40.00	400.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				200	Sacks	14.00	2,800.00T
276	Flocele				50	Lb(s)	2.00	100.00T
283	Salt				1,000	Lb(s)	0.20	200.00T
284	Calseal				10	Sack(s)	35.00	350.00T
285	CFR-1				141	Lb(s)	4.00	564.00T
330	Swift Multi-Density Standard (MIDCON II)				300	Sacks	17.00	5,100.00T
276	Flocele				150	Lb(s)	2.00	300.00T
581D	Service Charge Cement				500	Sacks	2.00	1,000.00
583D	Drayage				3,560.13	Ton Miles	1.00	3,560.13
	Subtotal							20,704.13
	Sales Tax Rawlins County						7.90%	1,090.52
We Appreciate Your Business!							Total	\$21,794.65



Services, Inc.

CHARGE TO: Minnie Dwy Co
ADDRESS

CITY, STATE, ZIP CODE

TICKET 25103

PAGE 1 OF 2

SERVICE LOCATIONS

1. Hays, KS WELL/PROJECT NO. H 2-1 LEASE W Delta COUNTY/PARISH Rawlins STATE KS CITY Rawlins DATE 9-11-13 OWNER

2. TICKET TYPE SERVICE CONTRACTOR Ca R RIG NAME NO. CS SHIPPED VIA CS DELIVERED TO NEW BRANBLEY, KS ORDER NO.

3. WELL TYPE D-1 WELL CATEGORY well extension JOB PURPOSE leaf longstrung WELL PERMIT NO.

4. REFERRAL LOCATION INVOICE INSTRUCTIONS top to bottom WELL LOCATION

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UNM	QTY.	UNM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575						113	130	mi			620	84000
578					Leafy Charge - leaf longstrung		100		44	9	15000	150000
821					Liquid KCl		4	gal			2500	10000
881					Head Plug		500	gal			125	62500
290					D-Air		5	gal			4200	21000
413					Percent Buckets		3	ea			28500	85500
416					Leafy Drain Plug & Beattie		1	ea			27500	27500
417					Insert Foot Stone w/ Auto R/R		1	ea			37500	37500
419					Turbulines		15	ea			9000	135000
					Roto Wall Scrubbers		10	ea			5000	50000
					Rotating Head Beater		1	ea			20000	20000

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

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

X [Signature]

DATE SIGNED 9-11-13 TIME SIGNED 10:00 A.M. P.M.

REMIT PAYMENT TO:

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

SWIFT OPERATOR [Signature] APPROVAL [Signature]

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

TOTAL 21,794.65

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 9-11-13 PAGE NO. 1

CUSTOMER Mountain Drilling Co

WELL NO. 2-1

LEASE Walters

JOB TYPE Concrete Logging

TICKET NO. 25103

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TD 4432'	DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING		
	1010								On location - Rig LD RH
	1115						15.5/4 5 1/2		Start 5 1/2" casing to 4429'
									Insert Float Shoe w/ FIT-1-wp
									LD. Baffle - ST-21' @ 4408' = 105
									10-5' s-ratchers
									Cent. 1-through 13 - 34-44
									Carl Baskets - Pa end #11-35-45
	1215								Cir @ 53' ^{net} ft. in.
									Drop fill up Bore & sts out
									Fin run casing
	1230								St. cir / Rotate casing
	1330								Fin cir - Hook to Swift
	1335	5					250		Pump 500 gal Mucal Flush
		6					300		Pump 20 BBL KCL Flush
		5 1/2					200		Start 200 sts SWD
			140				100		Fin SWD - Start 200 sts EA-2 cut
			50				Vac		Fin EA-2 EA-2 cut
									Wash out Pump & Lines
		9					250		Disp L.D. Plug Start Disp 1
		8	50				300		Casht lift pass
	1545	6	105				1350		Plug Down
	1550	5					1700		Hold - Release & Hold
			9						Plug RH 30 sts SWD.
			6						Plug left 20 sts SWD
	1600								Job Complete - not cir cut
									Washup & Cleanup
	1630								

[Signature]
 Don & Son
 Long & Roll