



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1248832
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: _____



1248832

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
--	---

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: _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Jacque 1-2
Doc ID	1248832

All Electric Logs Run

DIL
DUCP
MEL
BHCS



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc**

250 N Water STE #300
Wichita, KS 67202

ATTN: Rocky Milford

Jacque #1-2

2-4S-33W Rawlins, KS

Start Date: 2014.11.07 @ 00:39:00

End Date: 2014.11.07 @ 10:03:30

Job Ticket #: 60204 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.12 @ 14:43:32



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc
250 N Water STE #300
Wichita, KS 67202
ATTN: Rocky Milford

2-4S-33W Rawlins, KS

Jacque #1-2

Job Ticket: 60204

DST#: 1

Test Start: 2014.11.07 @ 00:39:00

GENERAL INFORMATION:

Formation: **Oread**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:20:00
 Time Test Ended: 10:03:30
 Interval: **3880.00 ft (KB) To 3975.00 ft (KB) (TVD)**
 Total Depth: 3975.00 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: 3077.00 ft (KB)
 3072.00 ft (CF)
 KB to GR/CF: 5.00 ft

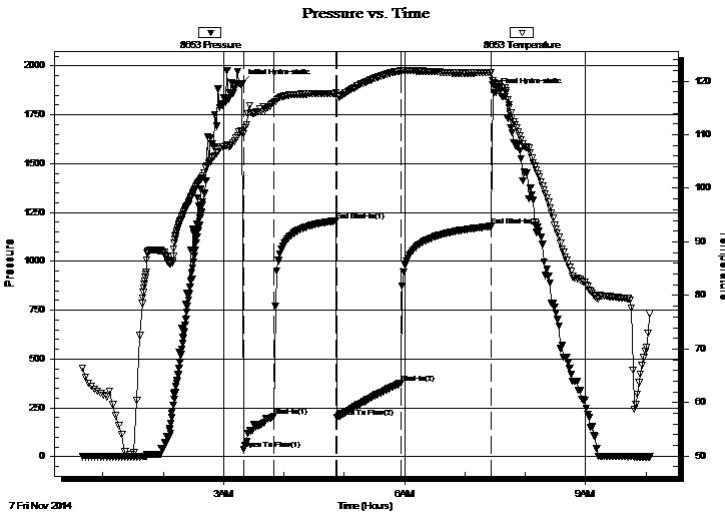
Serial #: 8653

Outside

Press@RunDepth: 376.54 psig @ 3881.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.07 End Date: 2014.11.07 Last Calib.: 2014.11.07
 Start Time: 00:40:00 End Time: 10:03:30 Time On Btm: 2014.11.07 @ 03:18:30
 Time Off Btm: 2014.11.07 @ 07:29:00

TEST COMMENT: 30 - IF- BoB in 12 min.
 60 - IS- No Return
 60 - FF- BoB in 14 min.
 90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1910.58	110.65	Initial Hydro-static
2	37.41	110.25	Open To Flow (1)
32	206.20	115.94	Shut-In(1)
93	1207.62	117.75	End Shut-In(1)
95	200.63	117.16	Open To Flow (2)
158	376.54	121.90	Shut-In(2)
248	1179.25	121.61	End Shut-In(2)
251	1865.16	119.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (Heavy) 100M	0.02
182.00	MW 5M 95W	0.90
126.00	MW 10M 90W	1.77
189.00	MW 30M 70W	2.65
251.00	MW 50M 50W	3.52

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc
 250 N Water STE #300
 Wichita, KS 67202
 ATTN: Rocky Milford

2-4S-33W Rawlins, KS

Jacque #1-2

Job Ticket: 60204 **DST#: 1**

Test Start: 2014.11.07 @ 00:39:00

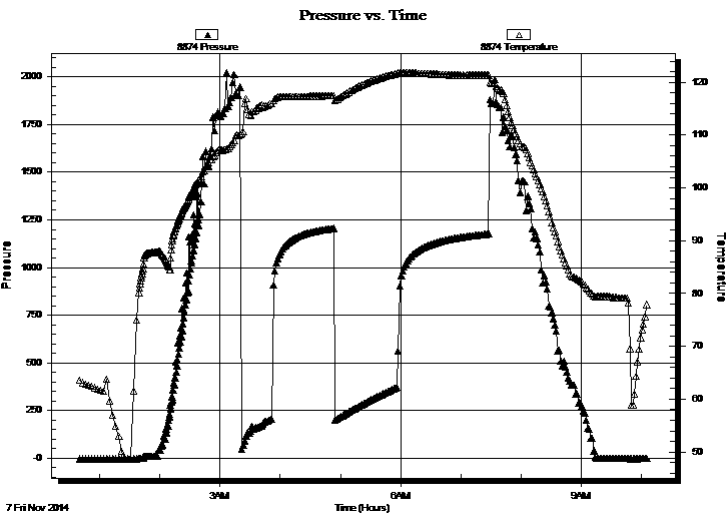
GENERAL INFORMATION:

Formation: Oread			
Deviated: No Whipstock:		ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 03:20:00			Tester: Kevin Mack
Time Test Ended: 10:03:30			Unit No: 66
Interval: 3880.00 ft (KB) To 3975.00 ft (KB) (TVD)			Reference Elevations: 3077.00 ft (KB)
Total Depth: 3975.00 ft (KB) (TVD)			3072.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Good		KB to GR/CF: 5.00 ft

Serial #: 8874 Inside

Press@RunDepth: psig @ 3881.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2014.11.07 End Date: 2014.11.07	Last Calib.: 2014.11.07
Start Time: 00:40:00 End Time: 10:05:00	Time On Btm:
	Time Off Btm:

TEST COMMENT: 30 - IF- BoB in 12 min.
 60 - IS- No Return
 60 - FF- BoB in 14 min.
 90 - FS- No Return



7 Fri Nov 2014

PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (Heavy) 100M	0.02
182.00	MW 5M 95W	0.90
126.00	MW 10M 90W	1.77
189.00	MW 30M 70W	2.65
251.00	MW 50M 50W	3.52

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc
250 N Water STE #300
Wichita, KS 67202
ATTN: Rocky Milford

2-4S-33W Rawlins, KS
Jacque #1-2
Job Ticket: 60204
Test Start: 2014.11.07 @ 00:39:00

DST#: 1

Tool Information

Drill Pipe:	Length: 3675.00 ft	Diameter: 3.80 inches	Volume: 51.55 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: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 52.47 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3880.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	95.00 ft			
Tool Length:	123.00 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			3853.00	
Shut In Tool	5.00			3858.00	
Hydraulic tool	5.00			3863.00	
Jars	5.00			3868.00	
Safety Joint	3.00			3871.00	
Packer	5.00			3876.00	28.00 Bottom Of Top Packer
Packer	4.00			3880.00	
Stubb	1.00			3881.00	
Recorder	0.00	8653	Outside	3881.00	
Recorder	0.00	8874	Inside	3881.00	
Perforations	23.00			3904.00	
Change Over Sub	1.00			3905.00	
Drill Pipe	64.00			3969.00	
Change Over Sub	1.00			3970.00	
Bullnose	5.00			3975.00	95.00 Bottom Packers & Anchor

Total Tool Length: 123.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc

2-4S-33W Rawlins, KS

250 N Water STE #300
Wichita, KS 67202

Jacque #1-2

Job Ticket: 60204

DST#: 1

ATTN: Rocky Milford

Test Start: 2014.11.07 @ 00:39:00

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:

35000 ppm

Viscosity: 195.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Mud (Heavy) 100M	0.025
182.00	MW 5M 95W	0.895
126.00	MW 10M 90W	1.767
189.00	MW 30M 70W	2.651
251.00	MW 50M 50W	3.521

Total Length: 753.00 ft Total Volume: 8.859 bbl

Num Fluid Samples: 0

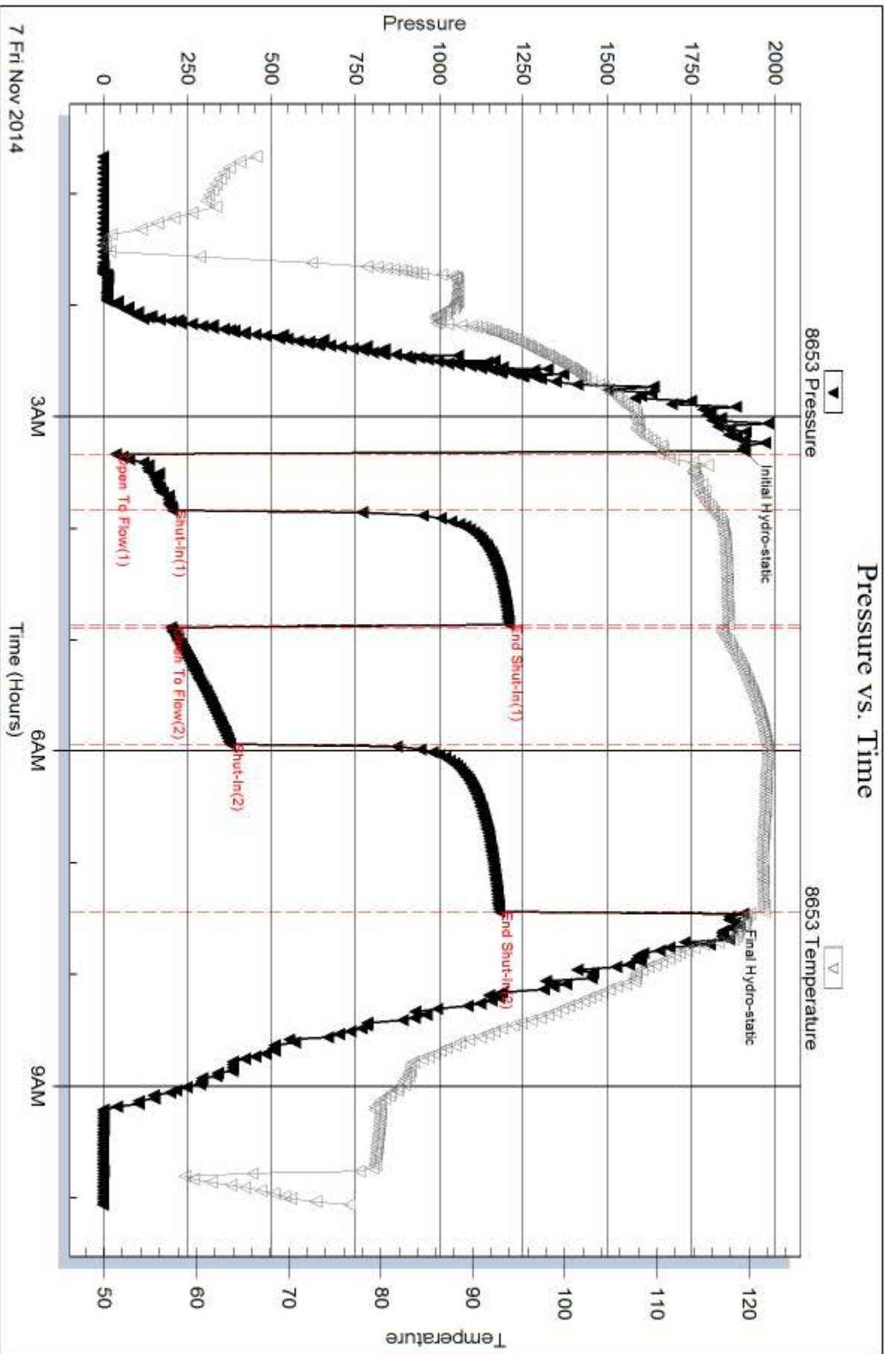
Num Gas Bombs: 0

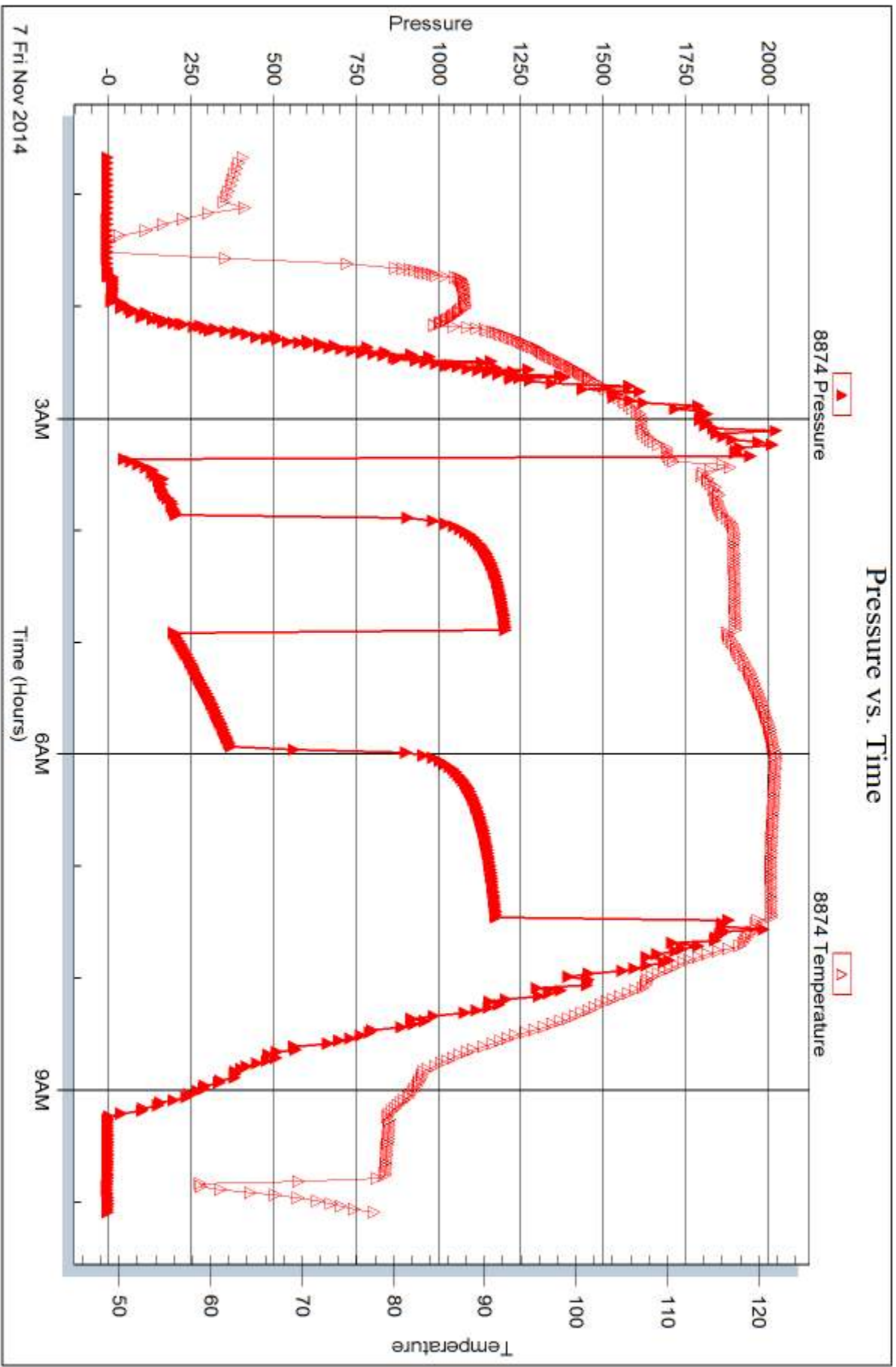
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.3 @ 52 deg = 35000ppm







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc**

250 N Water STE #300
Wichita, KS 67202

ATTN: Rocky Milford

Jacque #1-2

2-4S-33W Rawlins, KS

Start Date: 2014.11.08 @ 00:08:00

End Date: 2014.11.08 @ 08:42:30

Job Ticket #: 60205 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.12 @ 14:43:08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc
250 N Water STE #300
Wichita, KS 67202
ATTN: Rocky Milford

2-4S-33W Rawlins, KS

Jacque #1-2

Job Ticket: 60205

DST#: 2

Test Start: 2014.11.08 @ 00:08:00

GENERAL INFORMATION:

Formation: **LKC "A-D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:58:10
 Time Test Ended: 08:42:30
 Interval: **3969.00 ft (KB) To 4073.00 ft (KB) (TVD)**
 Total Depth: 4073.00 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: 3077.00 ft (KB)
 3072.00 ft (CF)
 KB to GR/CF: 5.00 ft

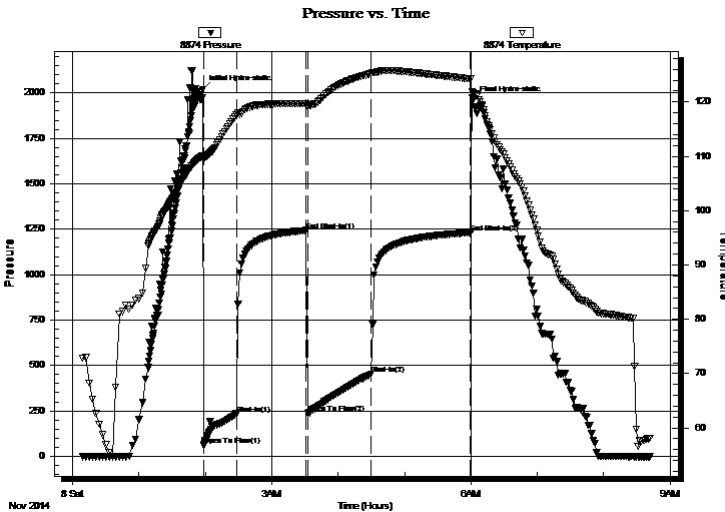
Serial #: 8874

Inside

Press@RunDepth: 452.62 psig @ 3970.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.08 End Date: 2014.11.08 Last Calib.: 2014.11.08
 Start Time: 00:09:00 End Time: 08:42:30 Time On Btm: 2014.11.08 @ 01:57:40
 Time Off Btm: 2014.11.08 @ 06:02:00

TEST COMMENT: 30 - IF- BoB in 9 min.
 60 - IS- No Return
 60 - FF- BoB in 10 Min.
 90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2017.80	110.09	Initial Hydro-static
1	58.38	109.36	Open To Flow (1)
31	233.69	117.59	Shut-In(1)
94	1243.52	119.68	End Shut-In(1)
95	235.65	119.08	Open To Flow (2)
152	452.62	125.18	Shut-In(2)
242	1231.22	124.22	End Shut-In(2)
245	1957.68	121.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (Heavy) 100M	0.02
434.00	Mw 5M 95W	4.43
189.00	MW 10M 90W	2.65
126.00	MW 40M 60W	1.77
219.00	WM 40M 60W (show of oil spots on top)	3.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc
250 N Water STE #300
Wichita, KS 67202
ATTN: Rocky Milford

2-4S-33W Rawlins, KS

Jacque #1-2

Job Ticket: 60205

DST#: 2

Test Start: 2014.11.08 @ 00:08:00

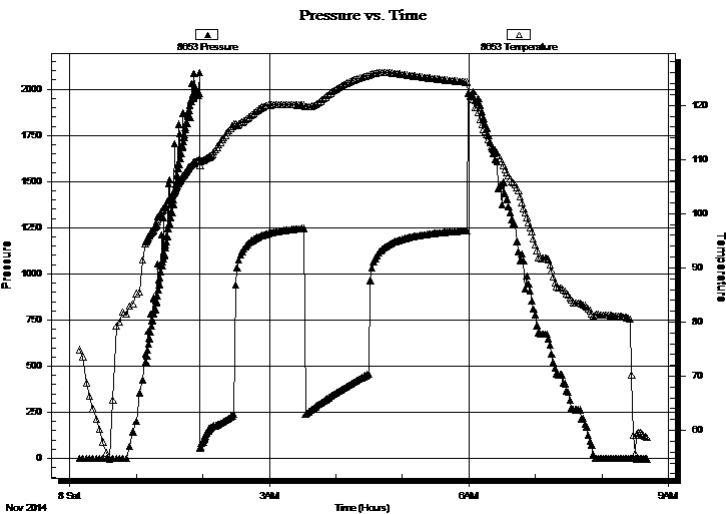
GENERAL INFORMATION:

Formation: **LKC "A-D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:58:10
 Time Test Ended: 08:42:30
 Interval: **3969.00 ft (KB) To 4073.00 ft (KB) (TVD)**
 Total Depth: 4073.00 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: 3077.00 ft (KB)
 3072.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8653 Outside

Press@RunDepth: psig @ 3970.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.08 End Date: 2014.11.08 Last Calib.: 2014.11.08
 Start Time: 00:09:00 End Time: 08:41:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF- BoB in 9 min.
 60 - IS- No Return
 60 - FF- BoB in 10 Min.
 90 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (Heavy) 100M	0.02
434.00	Mw 5M 95W	4.43
189.00	MW 10M 90W	2.65
126.00	MW 40M 60W	1.77
219.00	WM 40M 60W (show of oil spots on top)	3.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc
250 N Water STE #300
Wichita, KS 67202
ATTN: Rocky Milford

2-4S-33W Rawlins, KS

Jacque #1-2

Job Ticket: 60205

DST#: 2

Test Start: 2014.11.08 @ 00:08:00

Tool Information

Drill Pipe:	Length: 3770.00 ft	Diameter: 3.80 inches	Volume: 52.88 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: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.80 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3969.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	104.00 ft			
Tool Length:	132.00 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			3942.00	
Shut In Tool	5.00			3947.00	
Hydraulic tool	5.00			3952.00	
Jars	5.00			3957.00	
Safety Joint	3.00			3960.00	
Packer	5.00			3965.00	28.00 Bottom Of Top Packer
Packer	4.00			3969.00	
Packer - Shale	0.00			3969.00	
Stubb	1.00			3970.00	
Recorder	0.00	8653	Outside	3970.00	
Recorder	0.00	8874	Inside	3970.00	
Perforations	1.00			3971.00	
Change Over Sub	1.00			3972.00	
Drill Pipe	95.00			4067.00	
Change Over Sub	1.00			4068.00	
Bullnose	5.00			4073.00	104.00 Bottom Packers & Anchor
Total Tool Length:	132.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc
250 N Water STE #300
Wichita, KS 67202
ATTN: Rocky Milford

2-4S-33W Rawlins, KS
Jacque #1-2
Job Ticket: 60205 **DST#: 2**
Test Start: 2014.11.08 @ 00:08:00

Mud and Cushion Information

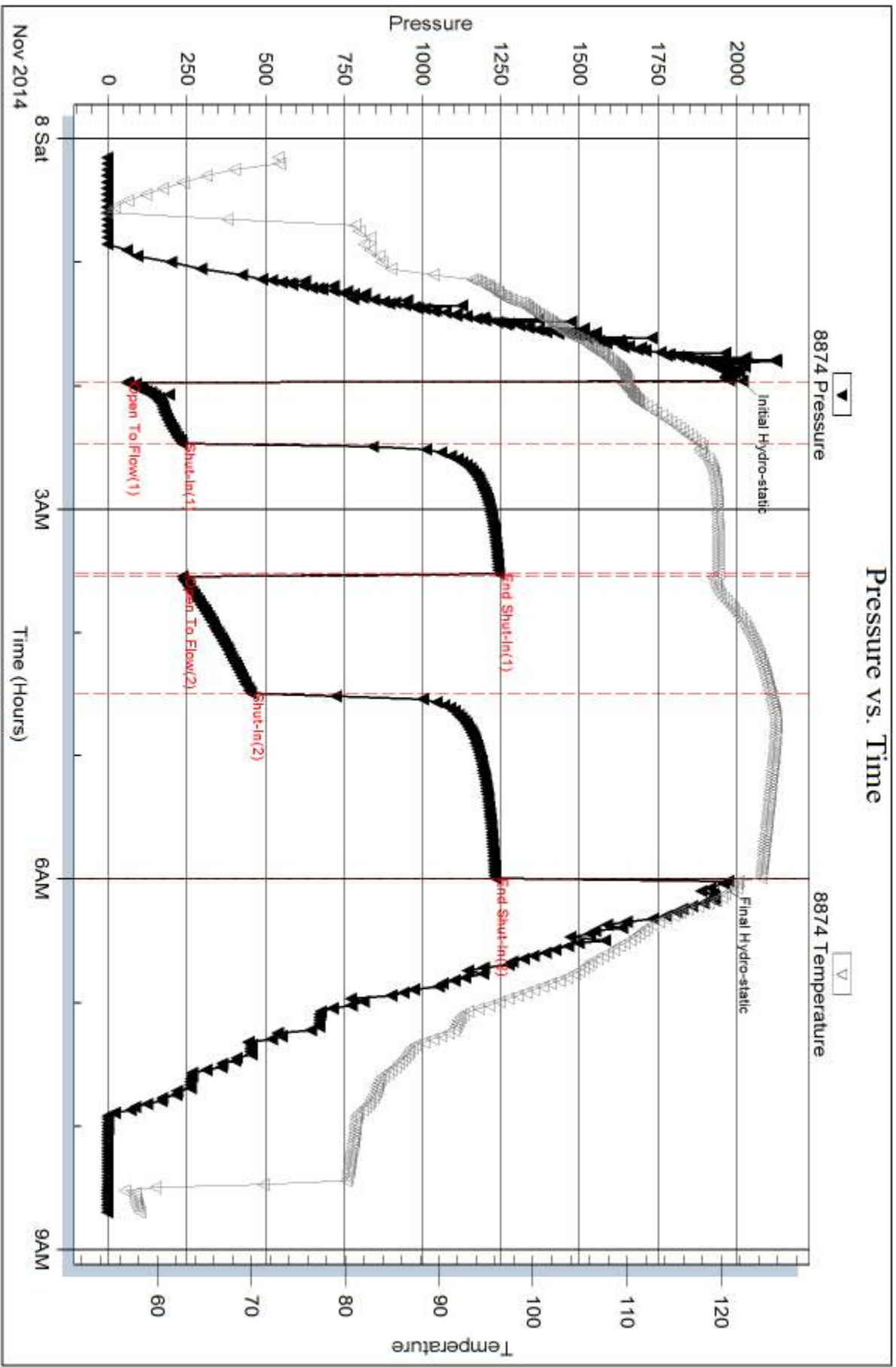
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	68000 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

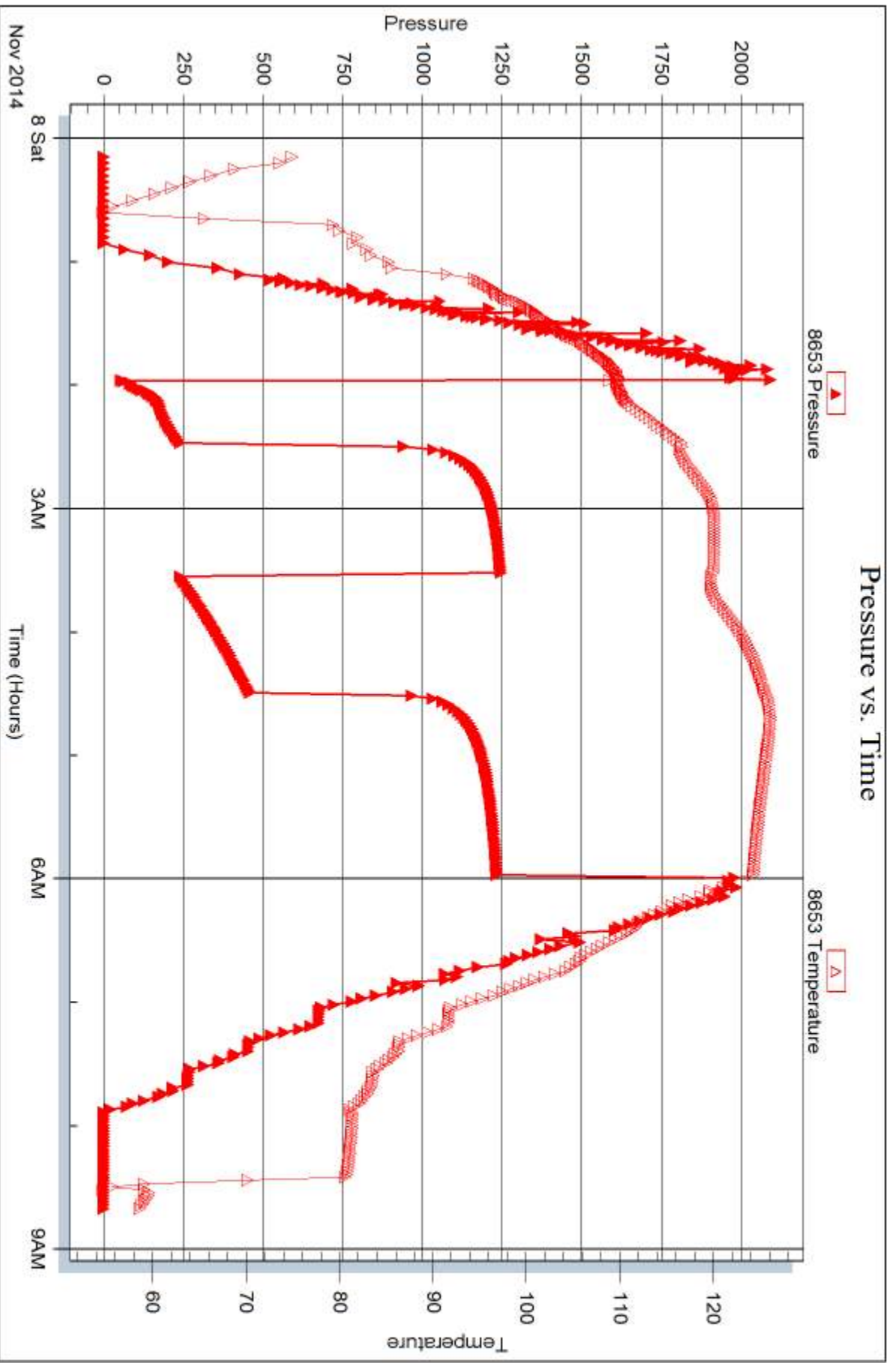
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud (Heavy) 100M	0.025
434.00	Mw 5M 95W	4.430
189.00	MW 10M 90W	2.651
126.00	MW 40M 60W	1.767
219.00	WM 40M 60W (show of oil spots on top)	3.072

Total Length: 973.00 ft Total Volume: 11.945 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Show of oil spots in tool
 RW .21 @ 41 deg = 68000ppm







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc**

250 N Water STE #300
Wichita, KS 67202

ATTN: Rocky Milford

Jacque #1-2

2-4S-33W Rawlins, KS

Start Date: 2014.11.08 @ 17:04:00

End Date: 2014.11.09 @ 02:17:30

Job Ticket #: 60206 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.12 @ 14:42:41



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc
250 N Water STE #300
Wichita, KS 67202
ATTN: Rocky Milford

2-4S-33W Rawlins, KS

Jacque #1-2

Job Ticket: 60206

DST#: 3

Test Start: 2014.11.08 @ 17:04:00

GENERAL INFORMATION:

Formation: **LKC "F-G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:34:30
 Time Test Ended: 02:17:30
 Interval: **4067.00 ft (KB) To 4120.00 ft (KB) (TVD)**
 Total Depth: 4120.00 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: 3077.00 ft (KB)
 3072.00 ft (CF)
 KB to GR/CF: 5.00 ft

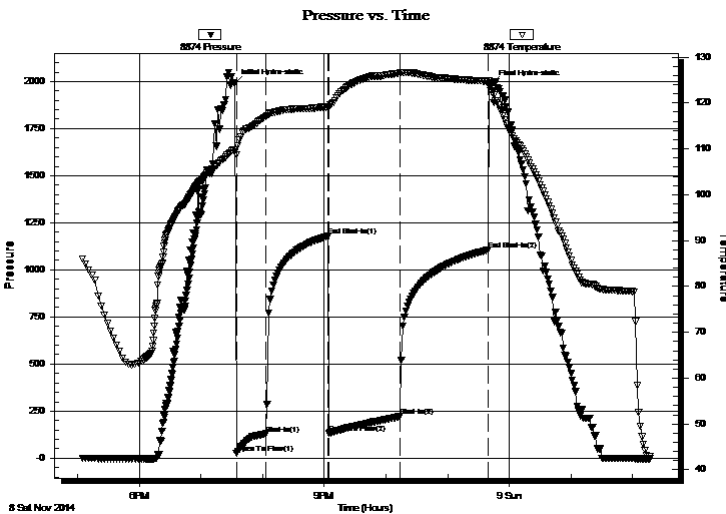
Serial #: 8874

Inside

Press@RunDepth: 220.86 psig @ 4068.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.08 End Date: 2014.11.09 Last Calib.: 2014.11.09
 Start Time: 17:05:00 End Time: 02:17:30 Time On Btm: 2014.11.08 @ 19:33:00
 Time Off Btm: 2014.11.08 @ 23:43:00

TEST COMMENT: 30 - IF- 3/4" Blow built to BoB in 27 min.
 60 - IS- No Return
 60 - FF- Surface Blow Built to BoB in 34 min.
 90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1989.07	109.82	Initial Hydro-static
2	26.58	108.72	Open To Flow (1)
30	129.29	117.00	Shut-In(1)
90	1178.24	119.07	End Shut-In(1)
92	132.16	118.93	Open To Flow (2)
161	220.86	126.49	Shut-In(2)
246	1104.99	124.75	End Shut-In(2)
250	1986.15	122.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100M	0.02
182.00	MW 10M 90W	0.90
126.00	MW 20M 80W	1.77
131.00	MW 50M 50W (Show of OS on top)	1.84

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc
 250 N Water STE #300
 Wichita, KS 67202
 ATTN: Rocky Milford

2-4S-33W Rawlins, KS

Jacque #1-2

Job Ticket: 60206

DST#: 3

Test Start: 2014.11.08 @ 17:04:00

GENERAL INFORMATION:

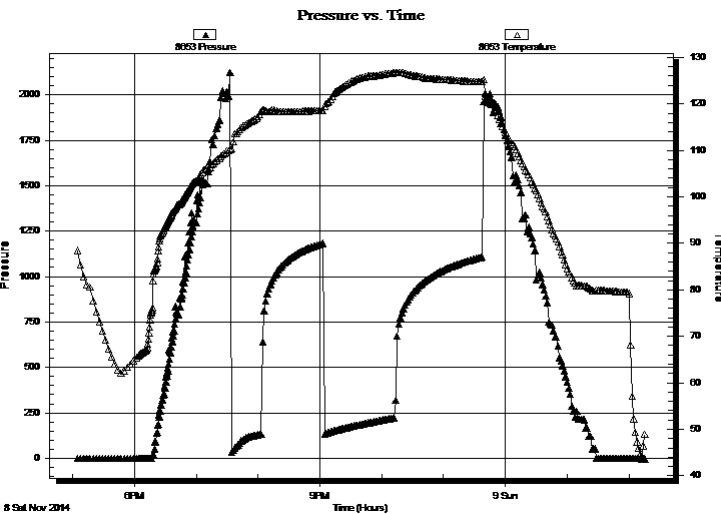
Formation: **LKC "F-G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:34:30
 Time Test Ended: 02:17:30
 Interval: **4067.00 ft (KB) To 4120.00 ft (KB) (TVD)**
 Total Depth: 4120.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 66
 Reference Elevations: 3077.00 ft (KB)
 3072.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8653

Outside

Press@RunDepth: psig @ 4068.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.08 End Date: 2014.11.09 Last Calib.: 2014.11.09
 Start Time: 17:05:00 End Time: 02:15:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF- 3/4" Blow built to BoB in 27 min.
 60 - IS- No Return
 60 - FF- Surface Blow Built to BoB in 34 min.
 90 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100M	0.02
182.00	MW 10M 90W	0.90
126.00	MW 20M 80W	1.77
131.00	MW 50M 50W (Show of OS on top)	1.84

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc
250 N Water STE #300
Wichita, KS 67202
ATTN: Rocky Milford

2-4S-33W Rawlins, KS
Jacque #1-2
Job Ticket: 60206
Test Start: 2014.11.08 @ 17:04:00

DST#: 3

Tool Information

Drill Pipe:	Length: 3863.00 ft	Diameter: 3.80 inches	Volume: 54.19 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: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 55.11 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4067.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	81.00 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			4040.00	
Shut In Tool	5.00			4045.00	
Hydraulic tool	5.00			4050.00	
Jars	5.00			4055.00	
Safety Joint	3.00			4058.00	
Packer	5.00			4063.00	28.00 Bottom Of Top Packer
Packer	4.00			4067.00	
Packer - Shale	0.00			4067.00	
Stubb	1.00			4068.00	
Recorder	0.00	8653	Outside	4068.00	
Recorder	0.00	8874	Inside	4068.00	
Perforations	13.00			4081.00	
Change Over Sub	1.00			4082.00	
Drill Pipe	32.00			4114.00	
Change Over Sub	1.00			4115.00	
Bullnose	5.00			4120.00	53.00 Bottom Packers & Anchor
Total Tool Length:	81.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc
250 N Water STE #300
Wichita, KS 67202
ATTN: Rocky Milford

2-4S-33W Rawlins, KS
Jacque #1-2
Job Ticket: 60206 **DST#: 3**
Test Start: 2014.11.08 @ 17:04:00

Mud and Cushion Information

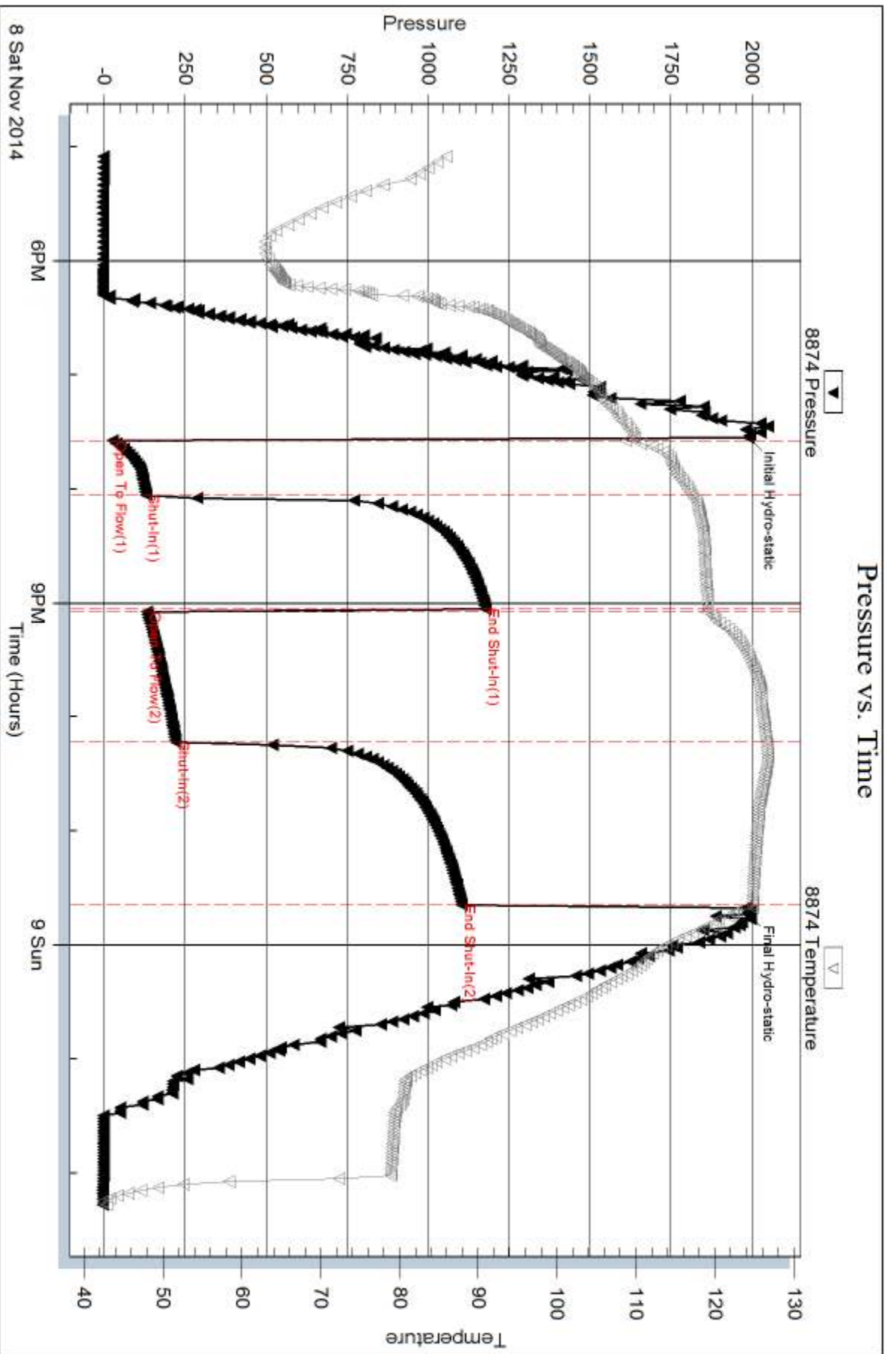
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2100.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100M	0.025
182.00	MW 10M 90W	0.895
126.00	MW 20M 80W	1.767
131.00	MW 50M 50W (Show of OS on top)	1.838

Total Length: 444.00 ft Total Volume: 4.525 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

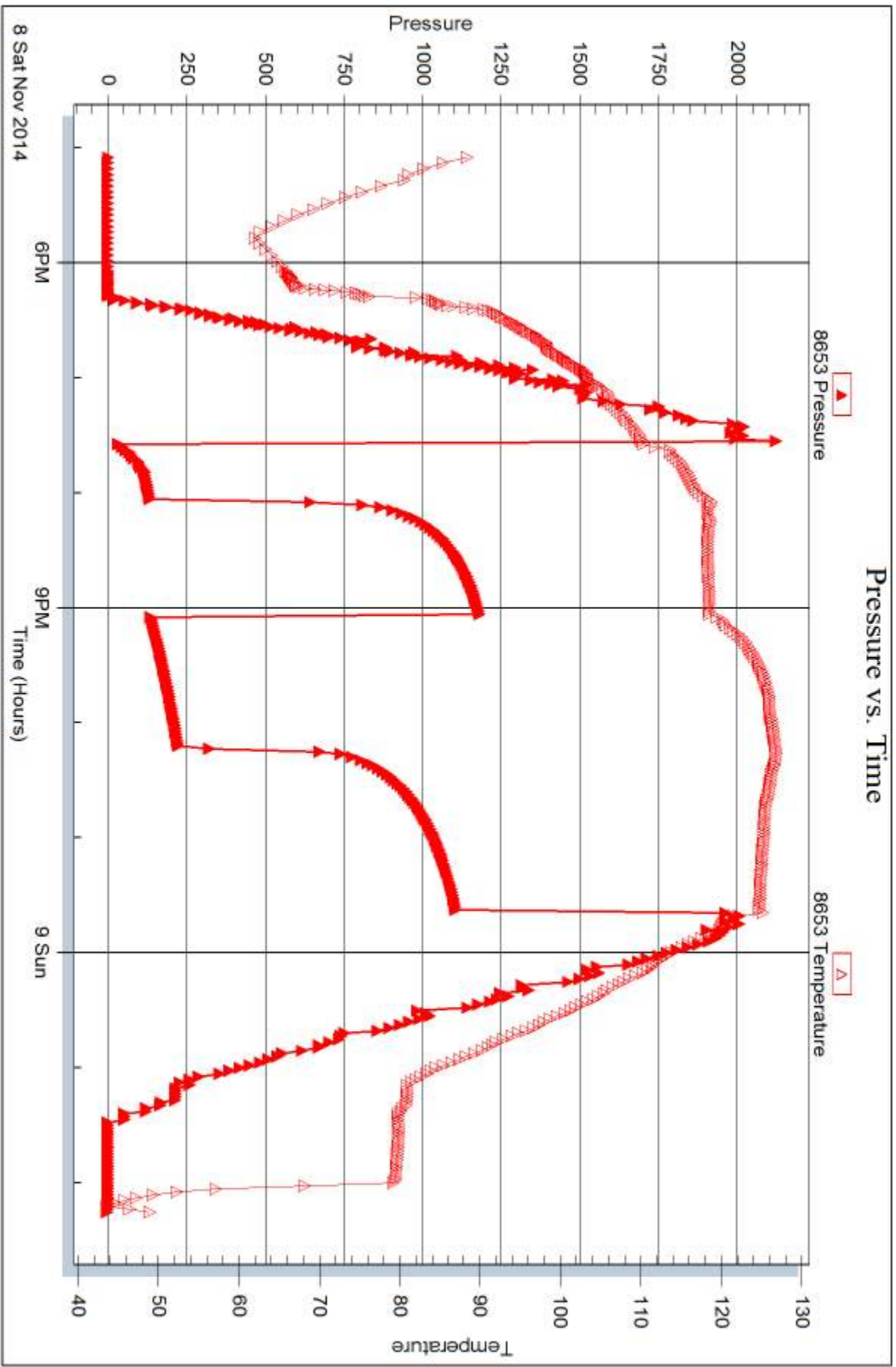


Serial #: 8653

Outside Murfin Drilling Co., Inc

Jacque #1-2

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 60206

Printed: 2014.11.12 @ 14:42:42



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc**

250 N Water STE #300
Wichita, KS 67202

ATTN: Rocky Milford

Jacque #1-2

2-4S-33W Rawlins, KS

Start Date: 2014.11.09 @ 12:45:00

End Date: 2014.11.09 @ 21:28:30

Job Ticket #: 60207 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.12 @ 14:41:59



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc
250 N Water STE #300
Wichita, KS 67202
ATTN: Rocky Milford

2-4S-33W Rawlins, KS

Jacque #1-2

Job Ticket: 60207

DST#: 4

Test Start: 2014.11.09 @ 12:45:00

GENERAL INFORMATION:

Formation: **LKC "H-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:06:30
 Time Test Ended: 21:28:30
 Interval: **4115.00 ft (KB) To 4195.00 ft (KB) (TVD)**
 Total Depth: 4195.00 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: 3077.00 ft (KB)
 3072.00 ft (CF)
 KB to GR/CF: 5.00 ft

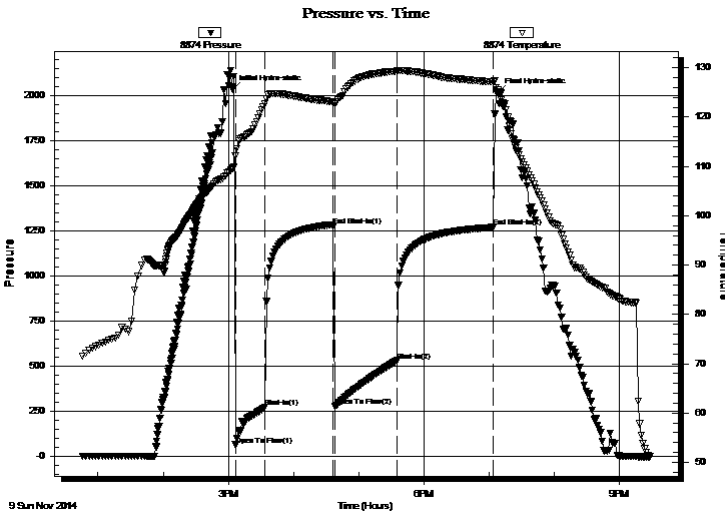
Serial #: 8874

Inside

Press@RunDepth: 530.70 psig @ 4116.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.09 End Date: 2014.11.09 Last Calib.: 2014.11.09
 Start Time: 12:46:00 End Time: 21:28:30 Time On Btm: 2014.11.09 @ 15:04:00
 Time Off Btm: 2014.11.09 @ 19:08:00

TEST COMMENT: 30 - IF- 1" Blow built to BoB in 7 min.
 60 - IS- Surface Return started at 5 min. Died at 20 min.
 60 - FF- Surface Blow Built to BoB in 10 min.
 90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2035.60	109.63	Initial Hydro-static
3	62.73	112.23	Open To Flow (1)
30	272.34	122.81	Shut-In(1)
93	1278.46	123.09	End Shut-In(1)
94	275.12	122.64	Open To Flow (2)
151	530.70	129.36	Shut-In(2)
240	1270.06	127.12	End Shut-In(2)
244	2015.19	125.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud (Heavy) 100M	0.05
431.00	MW 5M 95W	4.43
115.00	MW 20M 80W	1.61
252.00	MW 35M 65W	3.53
307.00	MW 50M 50W	4.31

Gas Rates

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



DRILL STEM TEST REPORT

Murfin Drilling Co., Inc
 250 N Water STE #300
 Wichita, KS 67202
 ATTN: Rocky Milford

2-4S-33W Rawlins, KS

Jacque #1-2

Job Ticket: 60207

DST#: 4

Test Start: 2014.11.09 @ 12:45:00

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:06:30

Time Test Ended: 21:28:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4115.00 ft (KB) To 4195.00 ft (KB) (TVD)

Reference Elevations: 3077.00 ft (KB)

Total Depth: 4195.00 ft (KB) (TVD)

3072.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8653 Outside

Press@RunDepth: psig @ 4116.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.09 End Date: 2014.11.09

Last Calib.: 2014.11.09

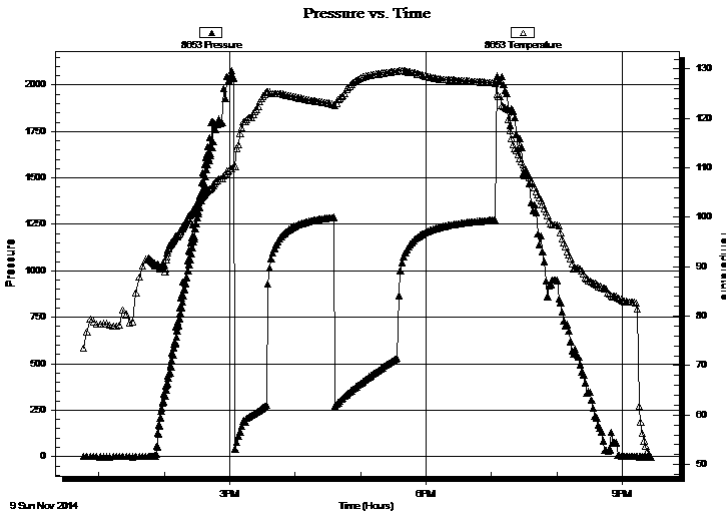
Start Time: 12:46:00 End Time: 21:27:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- 1" Blow built to BoB in 7 min.
 60 - IS- Surface Return started at 5 min. Died at 20 min.
 60 - FF- Surface Blow Built to BoB in 10 min.
 90 - FS- No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud (Heavy) 100M	0.05
431.00	MW 5M 95W	4.43
115.00	MW 20M 80W	1.61
252.00	MW 35M 65W	3.53
307.00	MW 50M 50W	4.31

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc
250 N Water STE #300
Wichita, KS 67202
ATTN: Rocky Milford

2-4S-33W Rawlins, KS
Jacque #1-2
Job Ticket: 60207
Test Start: 2014.11.09 @ 12:45:00

DST#: 4

Tool Information

Drill Pipe:	Length: 3930.00 ft	Diameter: 3.80 inches	Volume: 55.13 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: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 56.05 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4115.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	108.00 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			4088.00	
Shut In Tool	5.00			4093.00	
Hydraulic tool	5.00			4098.00	
Jars	5.00			4103.00	
Safety Joint	3.00			4106.00	
Packer	5.00			4111.00	28.00 Bottom Of Top Packer
Packer	4.00			4115.00	
Stubb	1.00			4116.00	
Recorder	0.00	8653	Outside	4116.00	
Recorder	0.00	8874	Inside	4116.00	
Perforations	8.00			4124.00	
Change Over Sub	1.00			4125.00	
Drill Pipe	64.00			4189.00	
Change Over Sub	1.00			4190.00	
Bullnose	5.00			4195.00	80.00 Bottom Packers & Anchor

Total Tool Length: 108.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc
250 N Water STE #300
Wichita, KS 67202
ATTN: Rocky Milford

2-4S-33W Rawlins, KS

Jacque #1-2

Job Ticket: 60207

DST#: 4

Test Start: 2014.11.09 @ 12:45:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 7.19 in³
Resistivity: 0.00 ohm.m
Salinity: 3000.00 ppm
Filter Cake: 2.00 inches

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

Oil API: deg API
Water Salinity: 55000 ppm

Recovery Information

Recovery Table

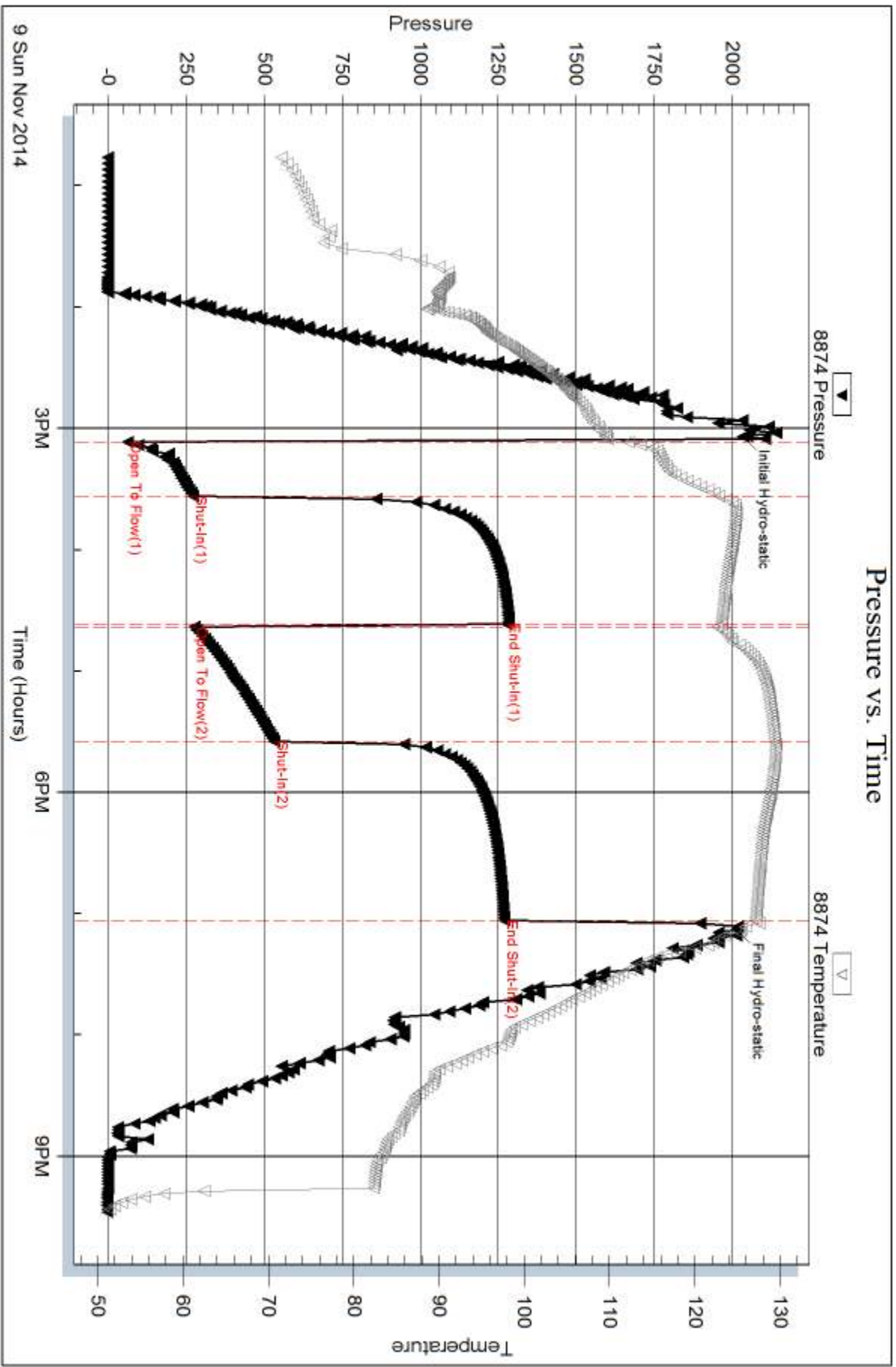
Length ft	Description	Volume bbl
10.00	Mud (Heavy) 100M	0.049
431.00	MW 5M 95W	4.433
115.00	MW 20M 80W	1.613
252.00	MW 35M 65W	3.535
307.00	MW 50M 50W	4.306

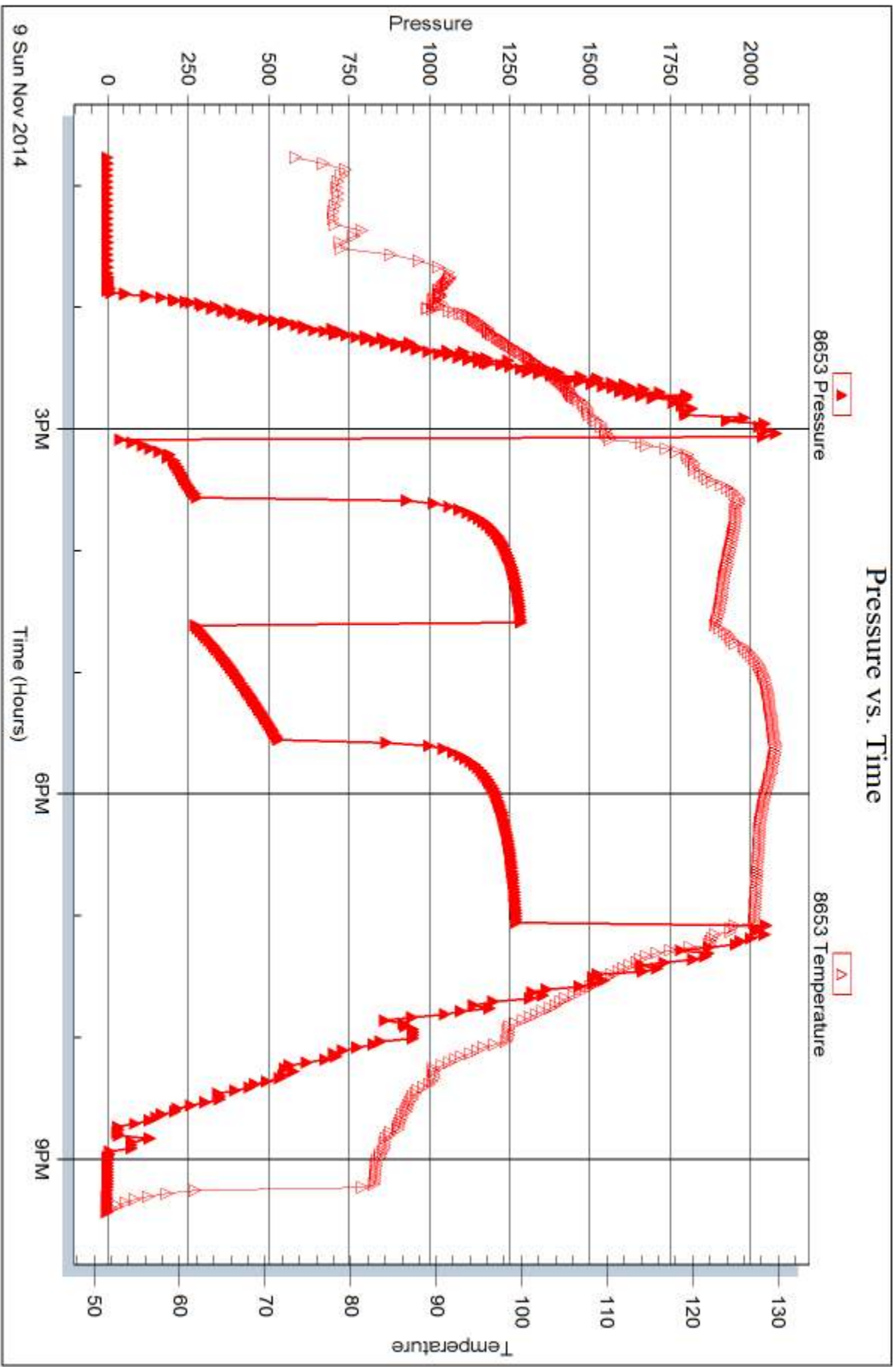
Total Length: 1115.00 ft Total Volume: 13.936 bbl

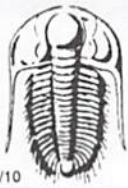
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW .17 @ 56 deg = 55,000ppm







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60204

Well Name & No. Jacque #1-2 Test No. 1 Date 11-7-14
 Company Murphy Drilling Co., Inc Elevation 3077 KB 3072 GL
 Address 2500 N Wenter STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murphy #7
 Location: Sec. 2 Twp. 4S Rge. 33 W Co. Rawlins State KS

Interval Tested 3880-3975 Zone Tested Oreud
 Anchor Length 95' Drill Pipe Run 3675 Mud Wt. 8.9
 Top Packer Depth 3876 Drill Collars Run 187 Vis 195
 Bottom Packer Depth 3880 Wt. Pipe Run 0 WL 6.4
 Total Depth 3975 Chlorides 1,800 ppm System LCM 3#
 Blow Description IE-BOB in 12 min
ISI-NO Return
FF-BOB in 14 min.
FSI-NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>251</u>	<u>MW</u>		<u>50</u>	<u>50</u>	
<u>189</u>	<u>MW</u>		<u>70</u>	<u>30</u>	
<u>126</u>	<u>MW</u>		<u>90</u>	<u>10</u>	
<u>182</u>	<u>MW</u>		<u>95</u>	<u>5</u>	
<u>5</u>	<u>mud (Heavy)</u>			<u>100</u>	

Rec Total 753 BHT 122 Gravity 1150 API RW .3 @ 52 ° F Chlorides 35,000 ppm
 (A) Initial Hydrostatic 1910 Test 1150 T-On Location 12:20 AM
 (B) First Initial Flow 37 Jars 250 T-Started 12:39 AM
 (C) First Final Flow 206 Safety Joint 75 T-Open 3:21 AM
 (D) Initial Shut-In 1207 Circ Sub _____ T-Pulled 7:21 AM
 (E) Second Initial Flow 200 Hourly Standby _____ T-Out 10:00 AM
 (F) Second Final Flow 376 Mileage 800 RT 124 Comments _____
 (G) Final Shut-In 1179 Sampler _____
 (H) Final Hydrostatic 1865 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1599

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. 60205

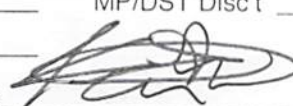
Well Name & No. Jacque #12 Test No. 2 Date 11-8-14
 Company Murrin Drilling Co., Inc. Elevation 3077 KB 3072 GL
 Address 2500 N Water STE #3008 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murrin #8
 Location: Sec. 2 Twp. 4S Rge. 33W Co. Rawlins State KS

Interval Tested 3969-4073 Zone Tested LKC "A-D"
 Anchor Length 104' Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 3965 Drill Collars Run 187' Vis 6l
 Bottom Packer Depth 3964 Wt. Pipe Run 0 WL 7.2
 Total Depth 4073 Chlorides 1,000 ppm System LCM 2#
 Blow Description IF - BoB in 9 min.
ISI - No Return
PF - BoB in
FSD - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>219</u>	<u>WM (shown of OS on top)</u>		<u>40</u>	<u>60</u>	
<u>126</u>	<u>MW</u>		<u>60</u>	<u>40</u>	
<u>189</u>	<u>MW</u>		<u>90</u>	<u>10</u>	
<u>434</u>	<u>MW</u>		<u>95</u>	<u>5</u>	
<u>5</u>	<u>Mud (heavy)</u>			<u>100</u>	

Rec Total 973 BHT 124 Gravity — API RW 21 @ 41 °F Chlorides 68,000 ppm
 (A) Initial Hydrostatic 2017 Test 1250 T-On Location 12:05 AM
 (B) First Initial Flow 58 Jars 250 T-Started 12:08 AM
 (C) First Final Flow 233 Safety Joint 75 T-Open 2:00 AM
 (D) Initial Shut-In 1243 Circ Sub _____ T-Pulled 6:00 AM
 (E) Second Initial Flow 235 Hourly Standby _____ T-Out 8:43 AM
 (F) Second Final Flow 452 Mileage 80 RT 124 Comments _____
 (G) Final Shut-In 1231 Sampler _____
 (H) Final Hydrostatic 1957 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 300 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1949
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1949

Approved By _____

Our Representative 



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60206

Well Name & No. Jacque #1-2 Test No. 3 Date 11-8-14
 Company Murfin Drilling Co., Inc Elevation 3077 KB 3072 GL
 Address 250 N Water STE #300 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #07
 Location: Sec. 2 Twp. 4S Rge. 33W Co. Rawlins State KS

Interval Tested 4067-4120 Zone Tested LKC "F-6"
 Anchor Length 53' Drill Pipe Run 3863' Mud Wt. 9.4
 Top Packer Depth 4063 Drill Collars Run 187' Vis 51
 Bottom Packer Depth 4067 Wt. Pipe Run 0 WL 7.2
 Total Depth 4120 Chlorides 21000 ppm System LCM 2#

Blow Description IF - 3/4" Blow built to BOB in 27 min.
ISI - NO Return
FF - Surface Blow Built to BOB in 34 min.
PSI - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud (heavy)</u>			<u>100</u>	
<u>182</u>	<u>MW</u>		<u>90</u>	<u>10</u>	
<u>126</u>	<u>MW</u>		<u>80</u>	<u>20</u>	
<u>131</u>	<u>MW (show of CS on top)</u>	<u>SPOTS</u>	<u>50</u>	<u>50</u>	

Rec Total 444' BHT 125 Gravity — API RW .21 @ 48 °F Chlorides 52,000 ppm
 (A) Initial Hydrostatic 1989 Test 1250 T-On Location 4:30 PM
 (B) First Initial Flow 26 Jars 250 T-Started 5:04 PM
 (C) First Final Flow 129 Safety Joint 75 T-Open 7:35 PM
 (D) Initial Shut-In 1178 Circ Sub _____ T-Pulled 11:35 PM
 (E) Second Initial Flow 132 Hourly Standby _____ T-Out 2:17 AM
 (F) Second Final Flow 220 Mileage 80RT 124 Comments _____
 (G) Final Shut-In 1104 Sampler _____
 (H) Final Hydrostatic 1986 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1949
 Total 1949
 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. 60207

Well Name & No. Jacque #1-2 Test No. 4 Date _____
 Company Murphy Drilling Co., Inc. Elevation 3077 KB 3072 GL _____
 Address 2500 N Water STE#300 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murphy #7
 Location: Sec. 2 Twp. 4S Rge. 33W Co. Rawlins State KS

Interval Tested 4115 - 4195 Zone Tested LKC "H-3"
 Anchor Length 80' Drill Pipe Run 3930' Mud Wt. 9.2
 Top Packer Depth 4111 Drill Collars Run 187' Vis 48
 Bottom Packer Depth 4115 Wt. Pipe Run Ø WL 7.2
 Total Depth 4195 Chlorides 3,000 ppm System LCM 3#
 Blow Description IF-1" Blow built to Bob in 7 min.
ISI - Surface Return Started at 5 min. Dird at 20 min.
FF - Surface Blow built to Bob in 10 min.
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>307</u>	<u>MW</u>		<u>50</u>	<u>50</u>	
<u>252</u>	<u>MW</u>		<u>65</u>	<u>35</u>	
<u>115</u>	<u>MW</u>		<u>80</u>	<u>20</u>	
<u>431</u>	<u>MW</u>		<u>95</u>	<u>5</u>	
<u>10</u>	<u>Mud (heavy)</u>			<u>100</u>	

Rec Total 1115' BHT 127° Gravity - API RW .17 @ 56 °F Chlorides 55,000 ppm

(A) Initial Hydrostatic <u>2035</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>11:50 AM</u>
(B) First Initial Flow <u>62</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:45 PM</u>
(C) First Final Flow <u>272</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>3:05 PM</u>
(D) Initial Shut-In <u>1278</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>7:05 PM</u>
(E) Second Initial Flow <u>275</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:30 PM</u>
(F) Second Final Flow <u>530</u>	<input checked="" type="checkbox"/> Mileage <u>80 RT</u> <u>124</u>	Comments _____
(G) Final Shut-In <u>1270</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2015</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>1699</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1699</u>	

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.



Proel-MG

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 146942
Invoice Date: Nov 3, 2014
Page: 1

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

Federal Tax I.D.#: 20-8651475

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	64303	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Nov 3, 2014	12/3/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Jacque #1-2		
235.00	CEMENT MATERIALS	Class A Common	17.90	4,206.50
663.00	CEMENT MATERIALS	Chloride	1.10	729.30
246.76	CEMENT SERVICE	Cubic Feet Charge	2.48	611.96
569.00	CEMENT SERVICE	Ton Mileage Charge	2.75	1,564.75
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	CEMENT SUPERVISOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		

Subtotal	9,504.76
Sales Tax	389.93
Total Invoice Amount	9,894.69
Payment/Credit Applied	
TOTAL	9,894.69

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

\$ 3,326.66

OK
35%

ONLY IF PAID ON OR BEFORE

Dec 3, 2014

OK
3326.66
6568.03



*mer,
prod-MG*

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 147050

Invoice Date: Nov 11, 2014

Voice: (817) 546-7282

Page: 1

Fax: (817) 246-3361

Federal Tax I.D.#: 20-8651475

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	64352	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Nov 11, 2014	12/11/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Jacque #1-2		
153.00	CEMENT MATERIALS	Class A Common	17.90	2,738.70
102.00	CEMENT MATERIALS	Pozmix	9.35	953.70
877.00	CEMENT MATERIALS	Gel	0.50	438.50
64.00	CEMENT MATERIALS	Flo Seal	2.97	190.08
273.87	CEMENT SERVICE	Cubic Feet Charge	2.48	679.20
572.00	CEMENT SERVICE	Ton Mileage Charge	2.75	1,573.00
1.00	CEMENT SERVICE	Plug to Abandon	2,483.59	2,483.59
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	110.00	110.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		
1.00	OPERATOR ASSISTANT	George Grant		
1.00	OPERATOR ASSISTANT	Shawn Tatro		

Subtotal	9,771.77
Sales Tax	771.97
Total Invoice Amount	10,543.74
Payment/Credit Applied	
TOTAL	10,543.74

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

\$ 3,381.61 ✓

ONLY IF PAID ON OR BEFORE

Dec 11, 2014

- 3381.61

7162.13

O.K.R.

ALLIED OIL & GAS SERVICES, LLC 064352

Federal Tax I.D. # 20-8651476

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

SERVICE POINT: Oakley, KS
11-12-14

DATE <u>11-11-14</u>	SEC. <u>2</u>	TWP. <u>4</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>10:00 pm</u>	JOB START <u>12:30 am</u>	JOB FINISH <u>1:30 am</u>
LEASE <u>Jac942</u>	WELL# <u>1-2</u>	LOCATION <u>Colby Rd 1/2, 1 E,</u>	COUNTY <u>Raefords</u>	STATE <u>KS</u>			
OLD OR NEW (Circle one) <u>NEW</u>			<u>1N, 3E, 34S, White</u>				

CONTRACTOR <u>Merfin 7</u>	OWNER <u>same</u>
TYPE OF JOB <u>PTA</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>4685</u>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2</u>	DEPTH <u>2800</u>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>32.71 bbl</u>	

PUMP TRUCK # <u>423/281</u>	CEMENTER <u>LaRosa E. Wank</u>
BULK TRUCK # <u>818/287</u>	HELPER <u>Kevin Ryan</u>
BULK TRUCK # _____	DRIVER <u>George Grant</u>
BULK TRUCK # _____	DRIVER <u>Shawn Tatro</u>

CEMENT		
AMOUNT ORDERED <u>255 s/s 60/40 90 gal</u>		
<u>1/4" # 16 seal</u>		
COMMON <u>153 s/s @ 17.90</u>		<u>2738.70</u>
POZMIX <u>102 s/s @ 9.35</u>		<u>953.70</u>
GEL <u>877 # @ .50</u>		<u>438.50</u>
CHLORIDE	@	
ASC	@	
<u>1/4" seal 64 # @ 2.77</u>		<u>176.08</u>
<u>Material total</u>	@	<u>4,206.98</u>
<u>(1512.34 / 35%)</u>	@	
HANDLING <u>273.87 s/s @ 2.48</u>		<u>679.28</u>
MILEAGE <u>11.44 hrs @ 2.25</u>		<u>257.40</u>

REMARKS:
Mix 50 s/s 2800'
Mix 100 s/s 2025'
Mix 50 s/s 3101'
Mix 10 s/s 40' w/ plug
Plug M.H. 15 s/s
Plug R.H. 30 s/s

Thank you

CHARGE TO: Merfin
 STREET _____
 CITY _____ STATE _____ ZIP _____

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 Fred Williams
 SIGNATURE Fred Williams

SERVICE		
DEPTH OF JOB <u>2800'</u>		
PUMP TRUCK CHARGE		<u>2483.57</u>
EXTRA FOOTAGE	@	
MILEAGE <u>MILW 50 @ 7.70</u>		<u>385.00</u>
MANIFOLD	@	
<u>MILW 50 @ 4.40</u>		<u>220.00</u>
<u>(1069.27 / 35%)</u>		
TOTAL		<u>3,388.57</u>

PLUG & FLOAT EQUIPMENT		
<u>Wooden Plug</u>	@	<u>110.00</u>
	@	
	@	
	@	
	@	
TOTAL		<u>110.00</u>

SALES TAX (If Any) _____
 TOTAL CHARGES 9771.77
 DISCOUNT 3,381.61 (35%) IF PAID IN 30 DAYS
6,390.15 Net

Jacque #1-2
 660' FSL 660' FEL
 Sec. 2-4S-33W
 3077' KB

Formation	Sample top	Datum	Ref	Log tops	Datum	Ref
Anhydrite	2783	+294	+20	2778	+299	+25
B/Anhydrite	2817	+260	+23	2816	+261	+24
Topeka	3801	-724	+12	3800	-723	+13
Heebner	3970	-893	+10	3969	-892	+11
Lansing	4011	-934	+7	4010	-933	+8
Stark	4194	-1117	+12	4192	-1115	+14
BKC	4242	-1165	+16	4242	-1165	+16
Pawnee	4370	-1293	+22	4368	-1291	+24
Cherokee	4440	-1363	+26	4440	-1363	+26
Mississippi	4607	-1530	+42	4597	-1520	+52
RTD	4685	-1608				
LTD				4686		

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



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

Shari Feist Albrecht, Chair
Jay Scott Emler, Commissioner
Pat Apple, Commissioner

Sam Brownback, Governor

April 10, 2015

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

Re: ACO-1
API 15-153-21076-00-00
Jacque 1-2
SE/4 Sec.02-04S-33W
Rawlins County, Kansas

Dear Francis Hitschmann:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 11/03/2014 and the ACO-1 was received on April 10, 2015 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department