



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1183137
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: _____

1183137

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

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

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

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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

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

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

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

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

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

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

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

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

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Beckman 'A' #1-16 1903' FSL 1340' FWL Sec. 16-7S-29W 2876' KB						Farber #1 TDR Expl Co. Sec. 23-7S-29W 2794' KB		
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2542	+334	+29	2540	+336	+31	2489	+305
B/Anhydrite	2577	+299	+31	2576	+300	+32	2526	+268
Topeka	3738	-862	+35	3734	-858	+39	3691	-897
Heebner	3933	-1057	+47	3930	-1054	+50	3898	-1104
Lansing	3974	-1098	+46	3974	-1098	+46	3938	-1144
Stark	4149	-1273	+45	4149	-1273	+45	4112	-1318
BKC	4194	-1318	+49	4194	-1318	+49	4161	-1367
Pawnee	4302	-1426	+54	4306	-1430	+50	4274	-1480
Ft Scott	4391	-1515	+46	4390	-1514	+47	4355	-1561
Cherokee	4408	-1532	+51	4409	-1533	+50	4377	-1583
Mississippi	4508	-1632	+54	4503	-1627	+59	4480	-1686
Arbuckle							4574	-1780
RTD	4580	-1704						
LTD				4580				



GEOLOGIST'S REPORT

OPERATOR **MURFIN DRILLING COMPANY, INC.**
LEASE **BECKMAN "A" # 1-16**

LOCATION **1903 FSL & 1340 FWL**
SEC. **16** TWPSP **7S** RGE **29W**
COUNTY **SHERIDAN** STATE **KANSAS**

FIELD **WILDCAT**
CONTRACTOR **Murfin Drilling Company** RIG NO. **24**
COMMENCED **1 Nov. 2013** COMPLETED **8 Nov. 2013**
MUD DISPLACED **3372** MUD TYPE **Chemical**
DRILLING TIME KEPT FROM **3600** TO **4580**
SAMPLES SAVED FROM **3670** TO **4580**
SAMPLES EXAMINED FROM **3670** TO **4580**

GEOLOGICAL SUPERVISION FROM **3652** TO **4580**
GEOLOGIST ON WELL **Paul Gunzelman**

FORMATION NAME LOG TOP DATUM TOP DATUM
Stone Corral 2540 +36 2542 +334
Base/Anhydrite 2578 +300 2577 +299
Topeka 3738 -862 3738 -862
Heebner Shale 3834 -1058 3833 -1057
Lansing 3974 -1098 3974 -1098
Base/Kansas City 4194 -1318 4194 -1318
Pawnee 4306 -1430 4302 -1426
Cherokee 4409 -1533 4408 -1532
Mississippian 4504 -1628 4506 -2630
Mississippian Total Depth 4580 -1704 4580 -1704

ELEVATIONS
KB **2876 Ft.**
GL **2871 Ft.**

CASING RECORD
CONDUCTOR **None**
SURFACE **8 5/8" @ 351'**
PRODUCTION **None**

ALL MEASUREMENTS FROM K.B.
Casing Record

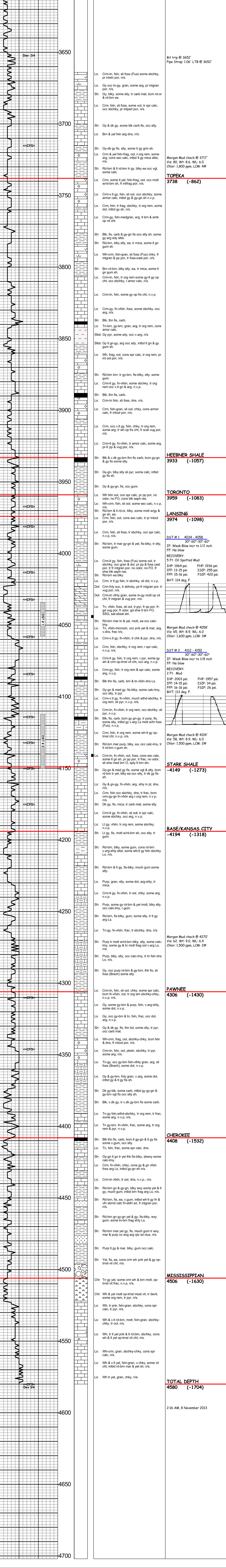
DIAGRAM
Dial Induction
Micro-resistivity
Comp. Neutron Density

FORMATION NAME LOG TOP DATUM TOP DATUM
Stone Corral 2540 +36 2542 +334
Base/Anhydrite 2578 +300 2577 +299
Topeka 3738 -862 3738 -862
Heebner Shale 3834 -1058 3833 -1057
Lansing 3974 -1098 3974 -1098
Base/Kansas City 4194 -1318 4194 -1318
Pawnee 4306 -1430 4302 -1426
Cherokee 4409 -1533 4408 -1532
Mississippian 4504 -1628 4506 -2630
Mississippian Total Depth 4580 -1704 4580 -1704

Table with 4 columns: FORMATION NAME, LOG TOP DATUM, TOP DATUM, SAMPLE. Lists geological formations from Stone Corral to Mississippian with their respective depths.

REMARKS
API 15-179-21345-00-00
Drilling Fluids: Morgan Mud, Inc. (Cade Lines, engineer)
Drill Stem Testing: Trilobite Testing, Inc. (Kevin Mack, tester)
Gas Trailer: No Gas Trailer
Reserve Pit Chlorides: 1,800 PPM

Table with 4 columns: DRILL TIME (MIN/FT), DEPTH, SAMPLE DESCRIPTIONS, REMARKS. Shows data for Stone Corral and Base/Anhydrite layers.



Operator: MURFIN DRILLING COMPANY, INC.
Lease: BECKMAN "A" # 1-16
Location: 1903 FSL & 1340 FWL SEC. 16 TWPSP 7S RGE 29W
County: SHERIDAN State: KANSAS



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Paul Gunzelman

Beckman 'A' #1-16

16-7s-29w Sheridan,KS

Start Date: 2013.11.05 @ 15:00:00

End Date: 2013.11.05 @ 23:43:00

Job Ticket #: 55190 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.11.12 @ 08:17:45



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

16-7s-29w Sheridan,KS

250 N Water STE #300
Wichita, KS 67202

Beckman 'A' #1-16

ATTN: Paul Gunzelman

Job Ticket: 55190

DST#: 1

Test Start: 2013.11.05 @ 15:00:00

GENERAL INFORMATION:

Formation: **LKC "E,F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:26:30

Time Test Ended: 23:43:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4034.00 ft (KB) To 4058.00 ft (KB) (TVD)

Reference Elevations: 2876.00 ft (KB)

Total Depth: 4058.00 ft (KB) (TVD)

2871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874

Inside

Press @ Run Depth: 16.25 psig @ 4035.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.05

End Date:

2013.11.05

Last Calib.:

2013.11.05

Start Time: 15:01:00

End Time:

23:43:00

Time On Btm:

2013.11.05 @ 18:26:00

Time Off Btm:

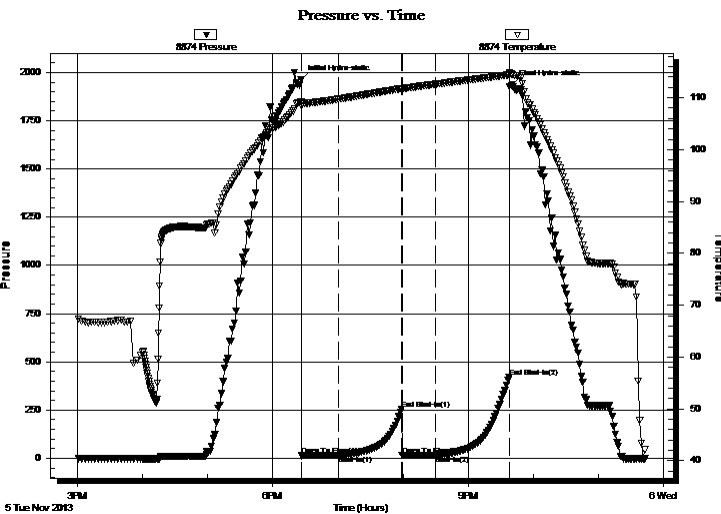
2013.11.05 @ 21:40:30

TEST COMMENT: 30 - IF- 1/4" Blow built to 1/2"

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1964.26	109.16	Initial Hydro-static
1	13.37	108.40	Open To Flow (1)
34	15.67	109.72	Shut-In(1)
93	255.27	111.78	End Shut-In(1)
93	15.41	111.67	Open To Flow (2)
124	16.25	112.62	Shut-In(2)
192	420.80	114.41	End Shut-In(2)
195	1936.21	114.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100M (oil spots)	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

16-7s-29w Sheridan,KS

250 N Water STE #300
Wichita, KS 67202

Beckman 'A' #1-16

Job Ticket: 55190

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2013.11.05 @ 15:00:00

GENERAL INFORMATION:

Formation: **LKC "E,F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:26:30

Time Test Ended: 23:43:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4034.00 ft (KB) To 4058.00 ft (KB) (TVD)

Reference Elevations: 2876.00 ft (KB)

Total Depth: 4058.00 ft (KB) (TVD)

2871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8653 Outside

Press @ Run Depth: psig @ 4035.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.05 End Date: 2013.11.05

Last Calib.: 2013.11.05

Start Time: 15:01:00 End Time: 23:41:00

Time On Btm:

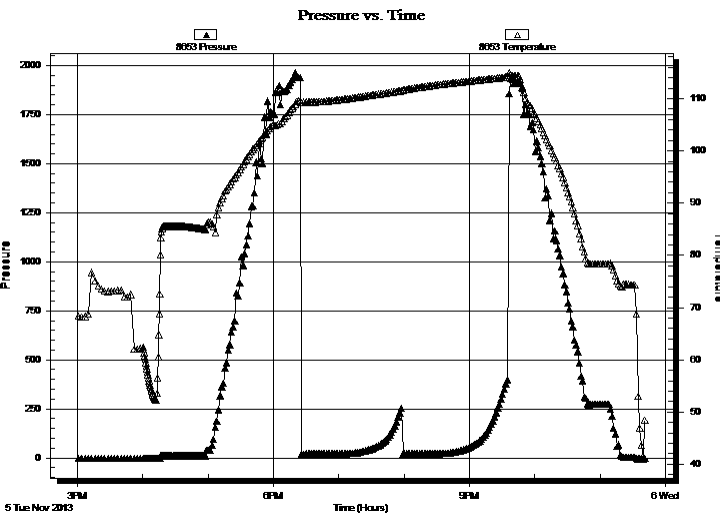
Time Off Btm:

TEST COMMENT: 30 - IF- 1/4" Blow built to 1/2"

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100M (oil spots)	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

16-7s-29w Sheridan,KS

250 N Water STE #300
Wichita, KS 67202

Beckman 'A' #1-16

Job Ticket: 55190

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2013.11.05 @ 15:00:00

Tool Information

Drill Pipe:	Length: 3917.00 ft	Diameter: 3.80 inches	Volume: 54.95 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 55.55 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4034.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 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			4007.00	
Shut In Tool	5.00			4012.00	
Hydraulic tool	5.00			4017.00	
Jars	5.00			4022.00	
Safety Joint	3.00			4025.00	
Packer	5.00			4030.00	28.00 Bottom Of Top Packer
Packer	4.00			4034.00	
Stubb	1.00			4035.00	
Recorder	0.00	8653	Outside	4035.00	
Recorder	0.00	8874	Inside	4035.00	
Perforations	18.00			4053.00	
Bullnose	5.00			4058.00	24.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

16-7s-29w Sheridan,KS

250 N Water STE #300
Wichita, KS 67202

Beckman 'A' #1-16

Job Ticket: 55190

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2013.11.05 @ 15:00:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM 100M (oil spots)	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

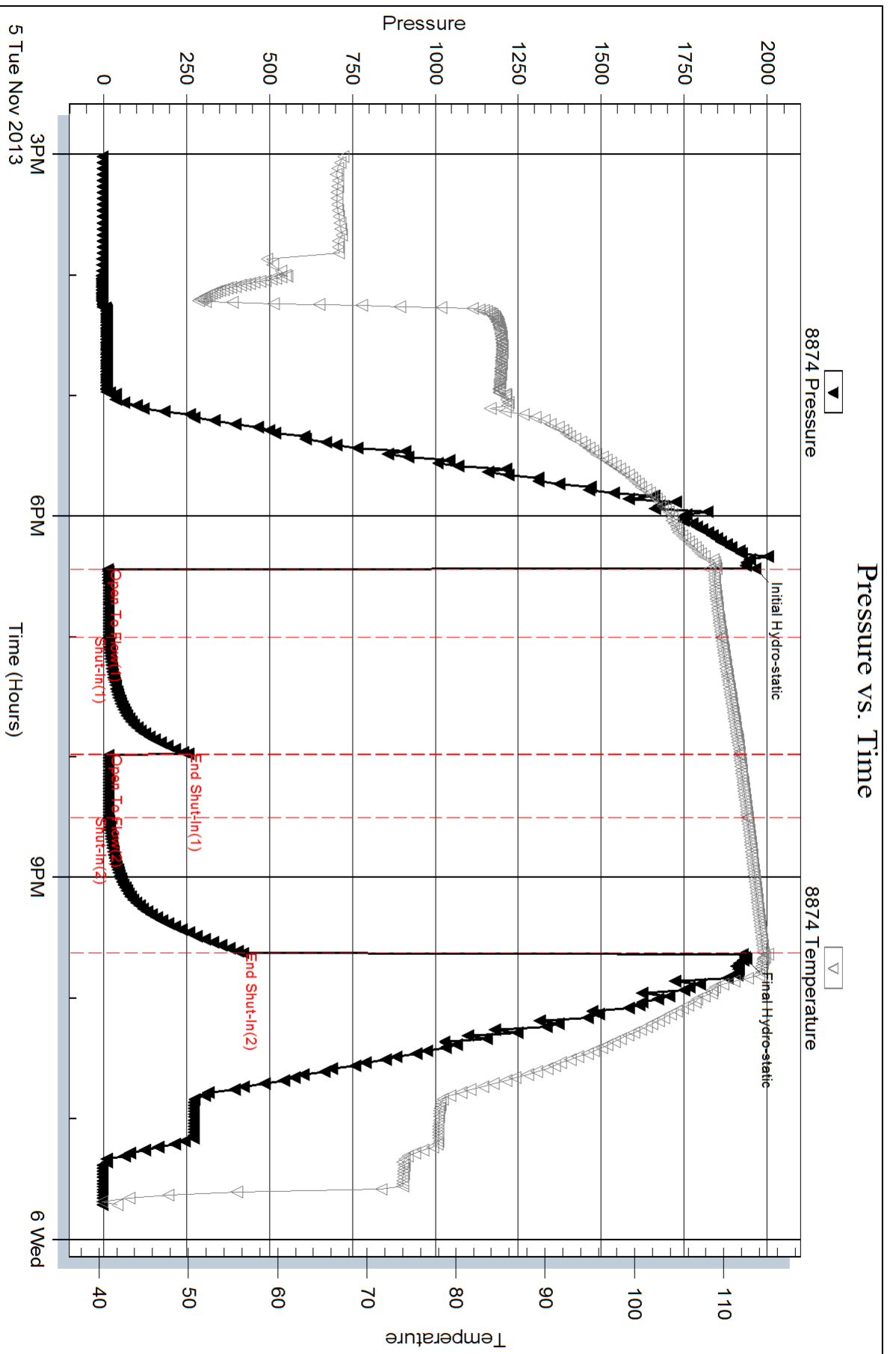
Serial #: 8874

Inside

Murfin Drilling Co.

Beckman 'A' #1-16

DST Test Number: 1

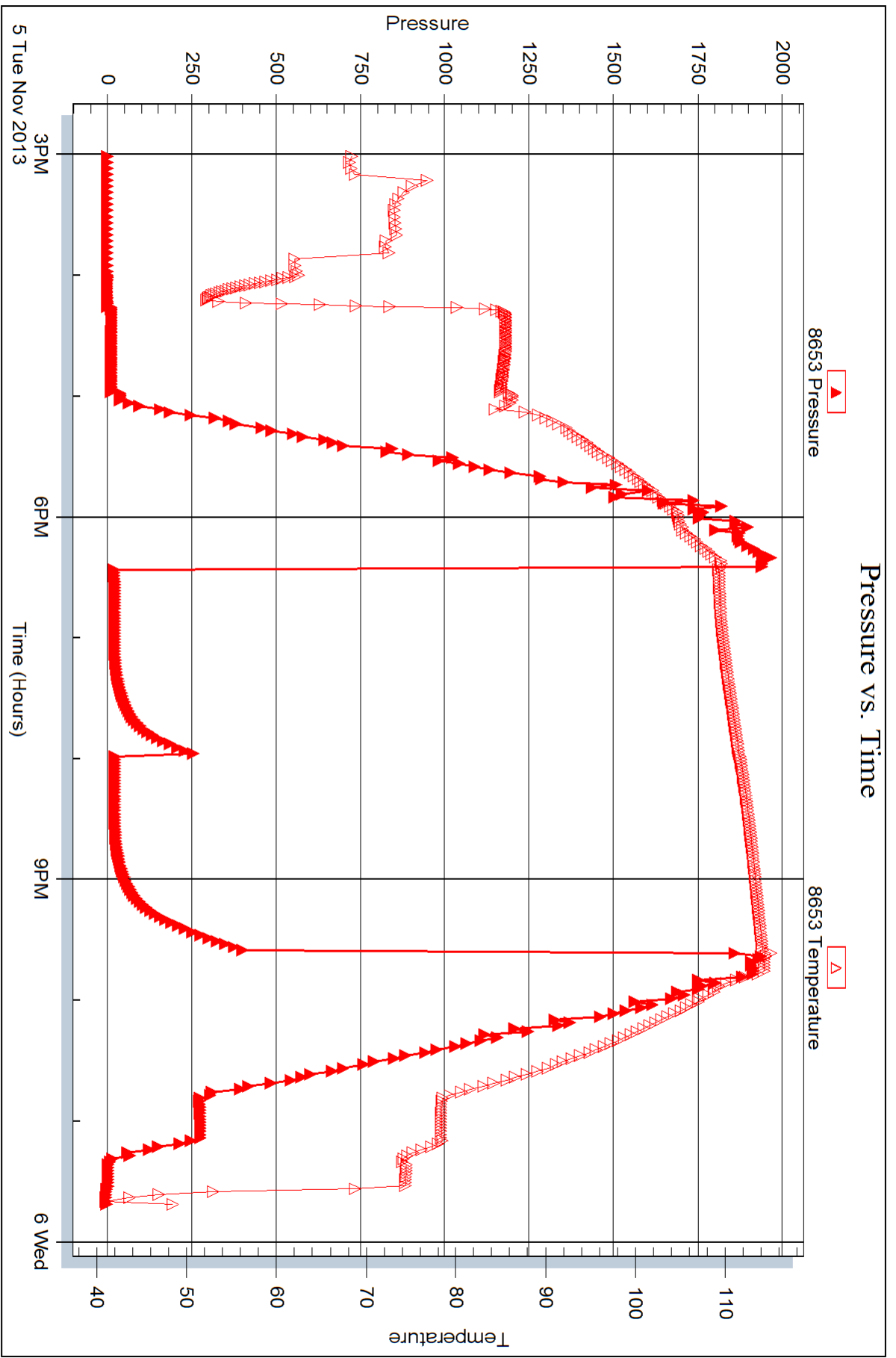


Serial #: 8653

Outside Murfin Drilling Co.

Beckman 'A' #1-16

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55190

Printed: 2013.11.12 @ 08:17:47



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE #300
Wichita, KS 67202

ATTN: Paul Gunzelman

Beckman 'A' #1-16

16-7s-29w Sheridan,KS

Start Date: 2013.11.06 @ 13:47:00

End Date: 2013.11.06 @ 20:47:00

Job Ticket #: 55191 DST #: 2

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

Printed: 2013.11.12 @ 08:17:06

Murfin Drilling Co. 16-7s-29w Sheridan,KS Beckman 'A' #1-16 DST # 2 LKC "I,J" 2013.11.06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

16-7s-29w Sheridan,KS

250 N Water STE #300
Wichita, KS 67202

Beckman 'A' #1-16

ATTN: Paul Gunzelman

Job Ticket: 55191

DST#: 2

Test Start: 2013.11.06 @ 13:47:00

GENERAL INFORMATION:

Formation: **LKC "I,J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:44:40

Time Test Ended: 20:47:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4112.00 ft (KB) To 4150.00 ft (KB) (TVD)

Reference Elevations: 2876.00 ft (KB)

Total Depth: 4150.00 ft (KB) (TVD)

2871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874 Inside

Press @ Run Depth: 16.86 psig @ 4113.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.06

End Date:

2013.11.06

Last Calib.: 2013.11.06

Start Time: 13:48:00

End Time:

20:47:00

Time On Btm: 2013.11.06 @ 15:44:30

Time Off Btm: 2013.11.06 @ 18:50:30

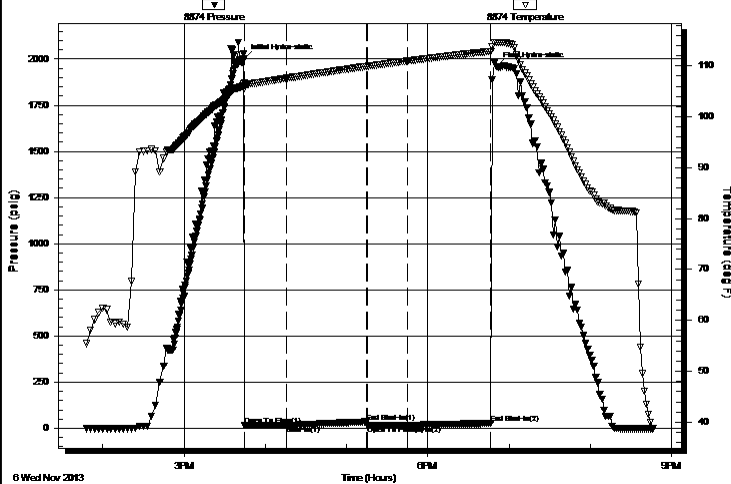
TEST COMMENT: 30 - IF- 1/8" Blow built to 1/4"

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return

Pressure vs. Time



PRESSURE SUMMARY

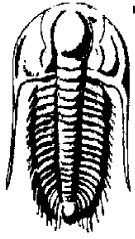
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2003.48	106.65	Initial Hydro-static
1	14.55	105.47	Open To Flow (1)
31	15.46	107.56	Shut-In(1)
90	34.79	109.89	End Shut-In(1)
91	16.27	109.90	Open To Flow (2)
121	16.86	110.97	Shut-In(2)
182	26.29	112.87	End Shut-In(2)
186	1957.93	114.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100M	0.01

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: Paul Gunzelman

16-7s-29w Sheridan,KS
Beckman 'A' #1-16
 Job Ticket: 55191 **DST#: 2**
 Test Start: 2013.11.06 @ 13:47:00

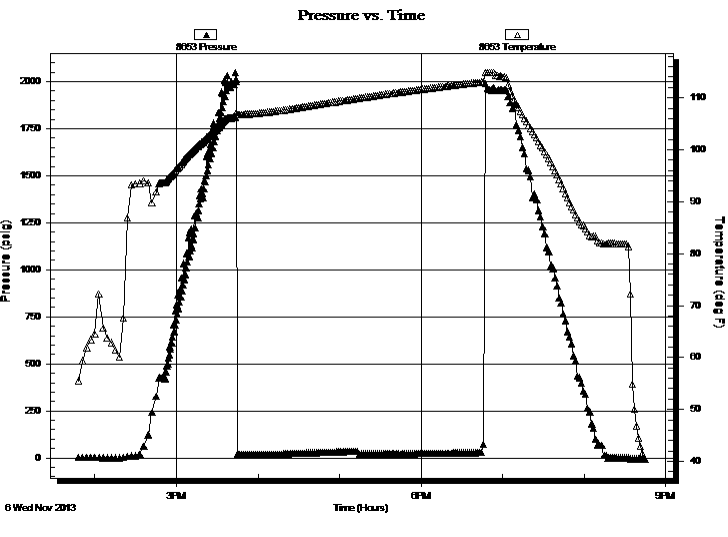
GENERAL INFORMATION:

Formation: **LKC "I,J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:44:40
 Time Test Ended: 20:47:00
 Interval: **4112.00 ft (KB) To 4150.00 ft (KB) (TVD)**
 Total Depth: 4150.00 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: 2876.00 ft (KB)
 2871.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8653 Outside

Press @RunDepth: psig @ 4113.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.06 End Date: 2013.11.06 Last Calib.: 2013.11.06
 Start Time: 13:48:00 End Time: 20:45:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF- 1/8" Blow built to 1/4"
 60 - IS- No Return
 30 - FF- No Blow
 60 - FS- No Return



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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100M	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

16-7s-29w Sheridan,KS

250 N Water STE #300
Wichita, KS 67202

Beckman 'A' #1-16

Job Ticket: 55191

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2013.11.06 @ 13:47:00

Tool Information

Drill Pipe:	Length: 3978.00 ft	Diameter: 3.80 inches	Volume: 55.80 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 56.40 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4112.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	66.00 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			4085.00	
Shut In Tool	5.00			4090.00	
Hydraulic tool	5.00			4095.00	
Jars	5.00			4100.00	
Safety Joint	3.00			4103.00	
Packer	5.00			4108.00	28.00 Bottom Of Top Packer
Packer	4.00			4112.00	
Stubb	1.00			4113.00	
Recorder	0.00	8653	Outside	4113.00	
Recorder	0.00	8874	Inside	4113.00	
Perforations	1.00			4114.00	
Change Over Sub	1.00			4115.00	
Drill Pipe	31.00			4146.00	
Change Over Sub	1.00			4147.00	
Bullnose	3.00			4150.00	38.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

16-7s-29w Sheridan,KS

250 N Water STE #300
Wichita, KS 67202

Beckman 'A' #1-16

Job Ticket: 55191

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2013.11.06 @ 13:47:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100M	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

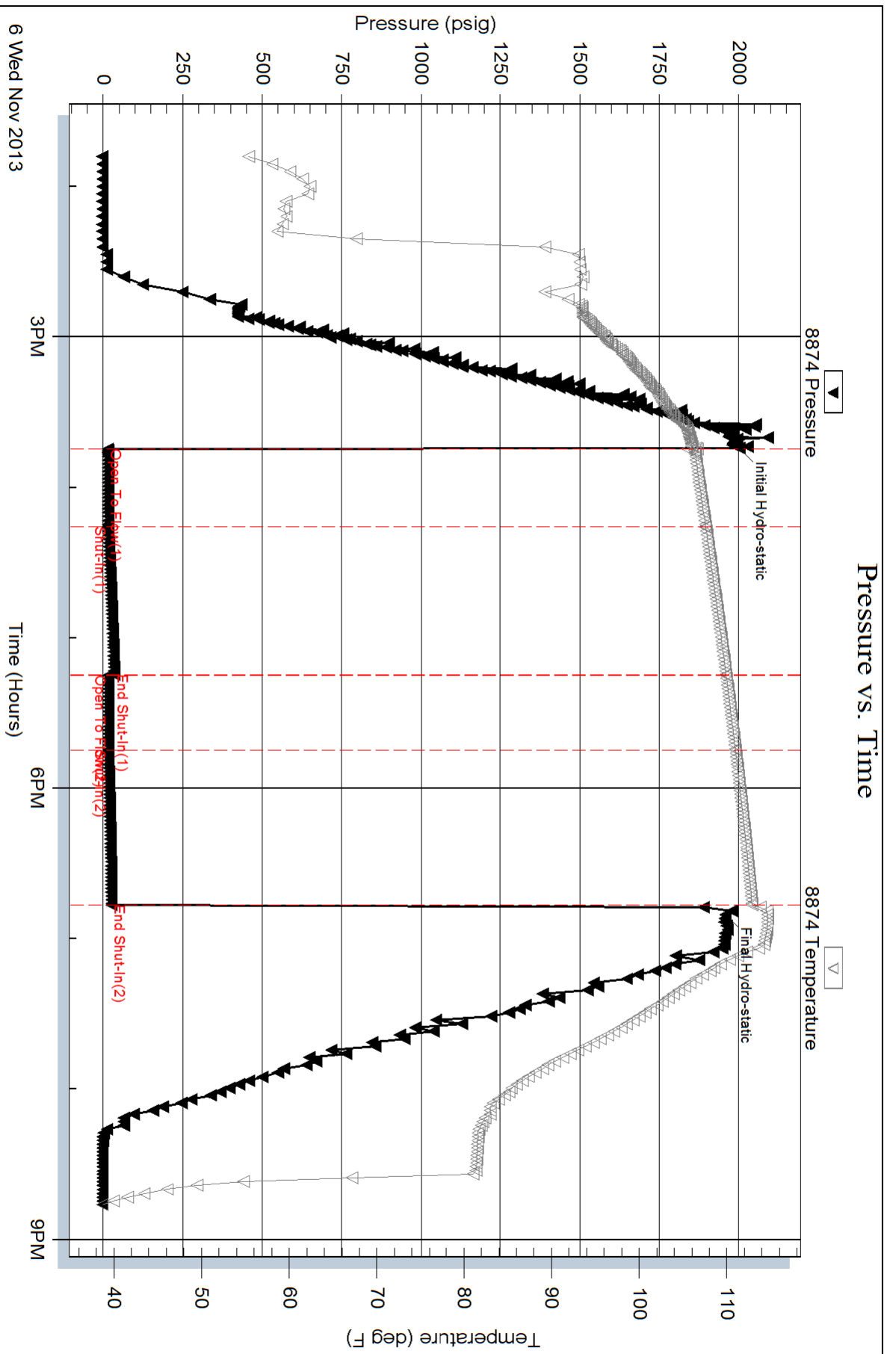
Serial #: 8874

Inside

Murfin Drilling Co.

Beckman 'A' #1-16

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 55191

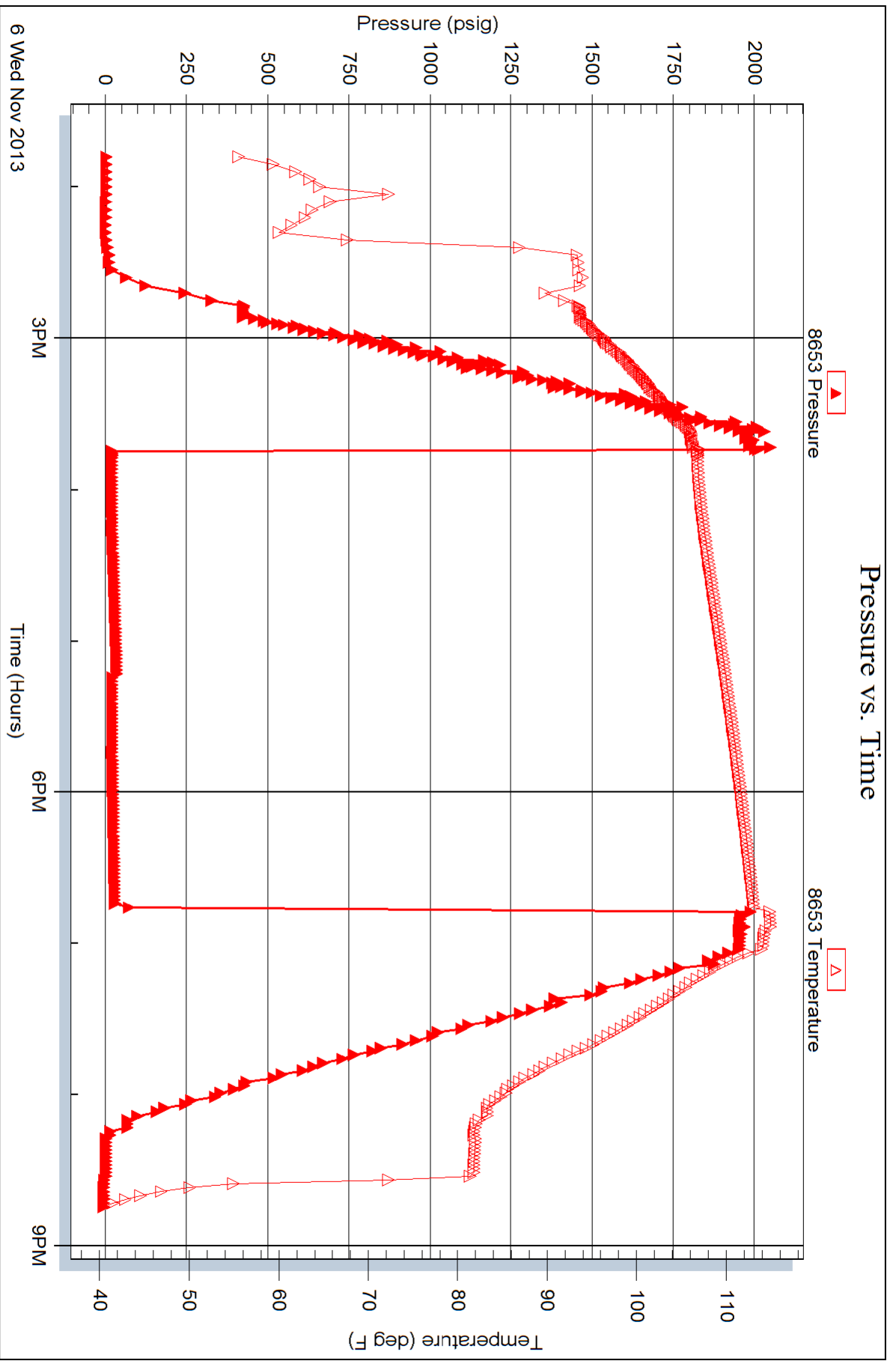
Printed: 2013.11.12 @ 08:17:08

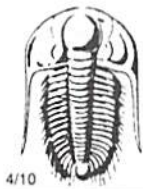
Serial #: 8653

Outside Murfin Drilling Co.

Beckman 'A' #1-16

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55190

Well Name & No. Beckman 'A' #1-16 Test No. 1 Date 11-5-13
 Company Murfin Drilling Co. Elevation 2876 KB 2871 GL
 Address 250 N Water STE # 3000 Wichita, KS 67202
 Co. Rep / Geo. Paul Gunzelman Rig Murfin #24
 Location: Sec. 16 Twp. 7S Rge. 29W Co. Sheridan State KS

Interval Tested 4034-4058 Zone Tested LKC "E-F"
 Anchor Length 24' Drill Pipe Run 3917 Mud Wt. 8.9
 Top Packer Depth 4030 Drill Collars Run 121' Vis 65
 Bottom Packer Depth 4034 Wt. Pipe Run 0 WL 6.0
 Total Depth 4058 Chlorides 1600 ppm System LCM 3#
 Blow Description IF - 1/4" Blow built to 1/2"
ISI - No Return
FF - No Blow
FSI - No Return

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

Rec Total 5 BHT 114 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1964 Test 1250 T-On Location 1:15 PM
 (B) First Initial Flow 13 Jars 250 T-Started 3:00 PM
 (C) First Final Flow 15 Safety Joint 75 T-Open 6:30 PM
 (D) Initial Shut-In 255 Circ Sub NIC T-Pulled 9:30 PM
 (E) Second Initial Flow 15 Hourly Standby T-Out 11:50 PM
 (F) Second Final Flow 16 Mileage 80RT 124 Comments _____
 (G) Final Shut-In 420 Sampler _____
 (H) Final Hydrostatic 1936 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1699
 Total 1699
 MP/DST Disc't _____

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. 55191

Well Name & No. Beckman 'A' #1-16 Test No. 2 Date 11-6-13
 Company Murfin Drilling Co. Elevation 2876 KB 2871 GL
 Address 250 N Water STE #300 Wichita, KS 67202
 Co. Rep / Geo. Paul Gunzelman Rig Murfin #24
 Location: Sec. 16 Twp. 7S Rge 29W Co. Sheridan State KS

Interval Tested 4112-4150 Zone Tested LKC "I, J"
 Anchor Length 38' Drill Pipe Run 3978' Mud Wt. 8.9
 Top Packer Depth 4108 Drill Collars Run 121' Vis 58
 Bottom Packer Depth 4112 Wt. Pipe Run 0 WL 6.0
 Total Depth 4150 Chlorides 1,500 ppm System LCM 2#

Blow Description IF-1/8" Blow built to
ISI-NO Return
FF-NO Blow
FSI-NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2 BHT 113 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 20003 Test 1250 T-On Location 1:20 PM
 (B) First Initial Flow 14 Jars 250 T-Started 1:47 PM
 (C) First Final Flow 15 Safety Joint 75 T-Open 3:45 PM
 (D) Initial Shut-In 34 Circ Sub NIL T-Pulled 6:45 PM
 (E) Second Initial Flow 16 Hourly Standby T-Out 8:50 PM
 (F) Second Final Flow 16 Mileage 80RT 248 Comments
 (G) Final Shut-In 26 Sampler loaded tools 11/7 15:45
 (H) Final Hydrostatic 1957 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1823
 Accessibility MP/DST Disc't

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60
 Sub Total 1823

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.



acct.
Prod-LH

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 139652
Invoice Date: Nov 1, 2013
Page: 1

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

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	61364	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Nov 1, 2013	12/1/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Beckman A #1-16		
275.00	CEMENT MATERIALS	Class A Common	17.90	4,922.50
5.00	CEMENT MATERIALS	Gel	23.40	117.00
15.00	CEMENT MATERIALS	Chloride	64.00	960.00
297.37	CEMENT SERVICE	Cubic Feet	2.48	737.48
516.80	CEMENT SERVICE	Ton Mileage	2.60	1,343.68
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
40.00	CEMENT SERVICE	Pump Truck Mileage	7.70	308.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
1.00	CEMENT SUPERVISOR	Kelly Gabel		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		

Subtotal	10,076.91
Sales Tax	488.96
Total Invoice Amount	10,565.87
Payment/Credit Applied	
TOTAL	10,565.87

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

\$ 3,526.91 35%

ONLY IF PAID ON OR BEFORE

Nov 26, 2013

- 3526.91

ALLIED OIL & GAS SERVICES, LLC 061364

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Oakley, KS

DATE <u>11-1-13</u>	SEC. <u>16</u>	TWP. <u>23</u>	RANGE <u>35W</u>	CALLED OUT	ON LOCATION <u>10:30 PM</u>	JOB START <u>3:00 AM</u>	JOB FINISH <u>3:30 AM</u>
LEASE <u>Beckman</u> WELL# <u>1-16</u>		LOCATION <u>Hoxie 700 40 E 40 into</u>			COUNTY <u>Sheridan</u>	STATE <u>Ks</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR <u>Murphy</u>	OWNER <u>Same</u>
TYPE OF JOB <u>5 at 5000</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>351</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>351</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>14'</u>	
PERFS.	
DISPLACEMENT <u>2 1/4</u>	

CEMENT		
AMOUNT ORDERED <u>275 com 390cc 250</u>		
<u>gel</u>		
COMMON <u>275 @ 17.00</u>		<u>4922.50</u>
POZMIX	@	
GEL <u>5344 @ 23.70</u>		<u>11700</u>
CHLORIDE <u>18544 @ 64.00</u>		<u>9600</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <u>297.37 cu ft @ 2.48</u>		<u>737.48</u>
MILEAGE <u>12.92 hrs x 40 x 2.48</u>		<u>1343.68</u>
TOTAL		<u>8080.66</u>

EQUIPMENT

PUMP TRUCK CEMENTER <u>Kelly Gabel</u>
<u>422</u> HELPER <u>Wayne McShighy</u>
BULK TRUCK
<u>3964306</u> DRIVER <u>Alex (TWS)</u>
BULK TRUCK
DRIVER

REMARKS:

safety meeting rigged up
mixed 275 com 390cc gel
displaced with 2 1/4 bbl water
since 10

Cement did circulate

Thank you for Kelly's crew

CHARGE TO: Martin

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB		<u>351</u>
PUMP TRUCK CHARGE		<u>1512.35</u>
EXTRA FOOTAGE	@	
MILEAGE <u>MR LV 40 @ 4.40</u>		<u>176.00</u>
MANIFOLD	@	
<u>MR HV 40 @ 7.70</u>		<u>308.00</u>
	@	
TOTAL		<u>1996.35</u>

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		

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

PRINTED NAME Anthony Martin

SIGNATURE Anthony Martin

SALES TAX (If Any) _____

TOTAL CHARGES 10,076.91

DISCOUNT 3,526.91 IF PAID IN 30 DAYS

6,549.99 Net



acct.
Prod-LH

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 139643

Invoice Date: Nov 8, 2013

Page: 1

Voice: (817) 546-7282

Fax: (817) 246-3361

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	61370	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Nov 8, 2013	12/8/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Beckman A #1-16		
123.00	CEMENT MATERIALS	Class A Common	17.90	2,201.70
82.00	CEMENT MATERIALS	Pozmix	9.35	766.70
7.00	CEMENT MATERIALS	Gel	23.40	163.80
51.00	CEMENT MATERIALS	Flo Seal	2.97	151.47
220.15	CEMENT SERVICE	Cubic Feet	2.48	545.97
352.40	CEMENT SERVICE	Ton Mileage	2.60	916.24
1.00	CEMENT SERVICE	Plug to Abandon	1,250.00	1,250.00
40.00	CEMENT SERVICE	Pump Truck Mileage	7.70	308.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	107.64	107.64
1.00	CEMENT SUPERVISOR	Kelly Gabel		
1.00	EQUIPMENT OPERATOR	Wayne Mc Ghghy		
1.00	OPERATOR ASSISTANT	Michael McKampson		

Subtotal	6,587.52
Sales Tax	536.88
Total Invoice Amount	7,124.40
Payment/Credit Applied	
TOTAL	7,124.40

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

\$ 2,305.63

ONLY IF PAID ON OR BEFORE

Dec 3, 2013

-2305.63

Handwritten signature/initials

ALLIED OIL & GAS SERVICES, LLC 061370

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

Calkley, KS

DATE <i>11-8-13</i>	SEC. <i>10</i>	TWP. <i>7^s</i>	RANGE <i>35 W</i>	CALLED OUT	ON LOCATION <i>5:30 PM</i>	JOB START <i>9:00 AM</i>	JOB FINISH <i>9:30 PM</i>
LEASE <i>Reed non A</i>		WELL# <i>1-6</i>	LOCATION <i>Hoxie #2404 N</i>		COUNTY <i>Shoemaker</i>	STATE <i>KS</i>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR *Muddin #24* OWNER *Same*

TYPE OF JOB *PTA*

HOLE SIZE *7 7/8* TD. *4580* CEMENT

CASING SIZE DEPTH AMOUNT ORDERED *205 SKS 6040 P02*

TUBING SIZE DEPTH *4 9/16 gel 1/4# Flo-seal*

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM COMMON *12355 @ 17.80 2201.70*

MEAS. LINE SHOE JOINT POZMIX *82 @ 9.35 766.70*

CEMENT LEFT IN CSG. GEL *75KS @ 23.80 1,755.00*

PERFS. CHLORIDE @

DISPLACEMENT ASC @

EQUIPMENT

PUMP TRUCK CEMENTER *Kelly Gabel*

3734281 HELPER *Wayne McGibby*

BULK TRUCK

3964306 DRIVER *Mike McKampan*

BULK TRUCK

DRIVER

COMMON	<i>12355 @ 17.80</i>	<i>2201.70</i>
POZMIX	<i>82 @ 9.35</i>	<i>766.70</i>
GEL	<i>75KS @ 23.80</i>	<i>1,755.00</i>
CHLORIDE	@	
ASC	@	
<i>Flo-seal</i>	<i>51# @ 2.97</i>	<i>151.47</i>
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	<i>220.15 cu ft @ 2.52</i>	<i>545.71</i>
MILEAGE	<i>8.81 ton x 40 x 2.50</i>	<i>916.24</i>
TOTAL		<i>3,337.08</i>

REMARKS:

35 @ 257.5
100 @ 1700
40 @ 400
10 @ 40
30 RH

*Thank You
Billie Wilson*

SERVICE

DEPTH OF JOB	<i>2575</i>
PUMP TRUCK CHARGE	<i>1250.00</i>
EXTRA FOOTAGE	@
MILEAGE	<i>M. LV 40 @ 4.40 176.00</i>
MANIFOLD	@
<i>M. H 40</i>	<i>@ 7.70 308.00</i>
	@

TOTAL *1724.00*

PLUG & FLOAT EQUIPMENT:

<i>1 - 8 5/8 Warden Plug</i>	@	<i>107.54</i>
	@	
	@	
	@	

TOTAL *107.54*

CHARGE TO: *Muddin*
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 *Anthony Martin*

SIGNATURE *Anthony Martin*

SALES TAX (if Any) _____
TOTAL CHARGES *8,178.70*
DISCOUNT *2,862.55* IF PAID IN 30 DAYS
5,316.16 Net.