



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1091976
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: _____

1091976

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: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 28, 2012

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

Re: ACO1
API 15-047-21607-00-00
Hattrup 1-3
SW/4 Sec.03-24S-20W
Edwards County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Leon Rodak

Hattrup #1-3 2310' FSL 1000' FWL Sec. 3-24S-20W 2285' KB						Dockendorf #1 Dunne D E Sec. 4-24S-20W 2286' KB		
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1434	+851	+5	1429	+856	+10	1440	+846
B/Anhydrite	1449	+836	+10	1449	+836	+10	1460	+826
Stotler	3375	-1090	+13	3386	-1101	+2	3389	-1103
Topeka	3611	-1326	FLAT	3610	-1325	+1	3612	-1326
Heebner	3972	-1687	+5	3972	-1687	+5	3978	-1692
Lansing	4066	-1781	+6	4066	-1781	+6	4073	-1787
Stark	4314	-2029	+2	4309	-2024	+7	4317	-2031
BKC	4408	-2123	+1	4404	-2119	+5	4410	-2124
Pawnee	4524	-2239	-2	4525	-2240	-3	4523	-2237
Miss	4636	-2351	+8	4635	-2350	+9	4645	-2359
Viola	4830	-2545	+6	4831	-2546	+5	4837	-2251
RTD	4930						4870	
LTD				4930			4868	

Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: **Murfin Drilling Company, Inc.**

LEASE: **Hatrup #1-3**

FIELD: **Widcut**

LOCATION: **2310TSL & 1000FWL**

SEC: **3** TWP: **24 S** RGE: **20 W**

COUNTY: **Harrison** STATE: **Kentucky**

CONTRACTOR: **Murfin Drilling Rig #21**

SPUD: **6/23/2012** COMP: **17/29/2012**

RTD: **4/9/10** LTD: **4/9/10**

MUD: **3200** TYPE: **MUD** CHEMICAL: **Chemical**

SAMPLES SAVED FROM: **3200 TO RTD**

DRILLING TIME KEPT FROM: **3200 TO RTD**

SAMPLES EXAMINED FROM: **3200 TO RTD**

GEOLOGICAL SUPERVISION FROM: **3200 TO RTD**

GEOLOGIST ON WELL: **Robert D. Hendrix**

FORMATION TOPS: **ELECTRIC LOG**

TOPEKA SH. **3509 (1398)** **3611 (1396)**

HENRIBER SH. **4066 (1781)** **3972 (1687)**

LANING **4310 (2025)** **4314 (2029)**

BKC **4404 (2119)** **4408 (2123)**

PAWNEE **4324 (2229)** **4324 (2237)**

MISSISSIPPIAN **4630 (2334)** **4636 (2351)**

VIOLA **4830 (2545)** **4830 (2545)**

STARK **4314 (2029)**

LANING **4066 (1781)**

BKC **4408 (2123)**

PAWNEE **4524 (-2239)**

MISSISSIPPIAN **4636 (-2351)**

VIOLA **4830 (-2545)**

RTD **4930 (-2645)**

TOPEKA **3611 (-1326)**

STOLLER **3375 (-1090)**

ANHYDRITE **1434 (+851)**

BASE ANHYDRITE **1450 (+835)**

HEEBNER **3972 (-1687)**

LANING **4066 (-1781)**

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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water Ste. 300
Wichita KS 67202-1216

ATTN: Robert Hendrix

Hattrup #1-3

3-24s-20w Edwards,KS

Start Date: 2012.06.29 @ 11:30:00

End Date: 2012.06.29 @ 19:11:30

Job Ticket #: 47638 DST #: 1

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

Printed: 2012.07.06 @ 11:37:35



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N Water Ste. 300
 Wichita KS 67202-1216
 ATTN: Robert Hendrix

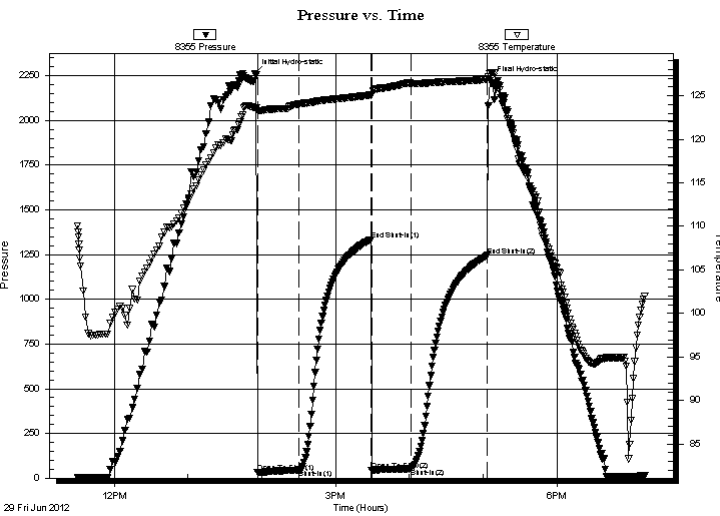
3-24s-20w Edwards,KS
Hattrup #1-3
 Job Ticket: 47638 **DST#: 1**
 Test Start: 2012.06.29 @ 11:30:00

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:56:15
 Time Test Ended: 19:11:30
 Interval: **4626.00 ft (KB) To 4657.00 ft (KB) (TVD)**
 Total Depth: 4657.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Harley Davidson
 Unit No: 58
 Reference Elevations: 2285.00 ft (KB)
 2274.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8355 Inside
 Press @ Run Depth: 56.31 psig @ 4627.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.29 End Date: 2012.06.29 Last Calib.: 2012.06.29
 Start Time: 11:30:05 End Time: 19:11:29 Time On Btm: 2012.06.29 @ 13:54:15
 Time Off Btm: 2012.06.29 @ 17:05:15

TEST COMMENT: IF- Weak blow 1/2" into bucket and then died.
 IS- No blow back.
 FF- No blow .
 FS- No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2263.48	123.65	Initial Hydro-static
2	31.47	123.27	Open To Flow (1)
36	47.13	124.07	Shut-In(1)
94	1333.69	125.08	End Shut-In(1)
95	44.91	125.10	Open To Flow (2)
127	56.31	126.44	Shut-In(2)
189	1244.98	126.87	End Shut-In(2)
191	2224.20	127.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	95% water 5% mud trace of oil	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.
250 N Water Ste. 300
Wichita KS 67202-1216
ATTN: Robert Hendrix

3-24s-20w Edwards,KS
Hattrup #1-3
Job Ticket: 47638 **DST#: 1**
Test Start: 2012.06.29 @ 11:30:00

Tool Information

Drill Pipe:	Length: 4335.00 ft	Diameter: 3.80 inches	Volume: 60.81 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 296.00 ft	Diameter: 2.25 inches	Volume: 1.46 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 62.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4626.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 7.78 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4604.00	
Hydraulic tool	5.00			4609.00	
Jars	5.00			4614.00	
Safety Joint	3.00			4617.00	
Packer	5.00			4622.00	27.00 Bottom Of Top Packer
Packer	4.00			4626.00	
Stubb	1.00			4627.00	
Recorder	0.00	8355	Inside	4627.00	
Recorder	0.00	8672	Outside	4627.00	
Perforations	27.00			4654.00	
Bullnose	3.00			4657.00	31.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.
250 N Water Ste. 300
Wichita KS 67202-1216
ATTN: Robert Hendrix

3-24s-20w Edwards,KS
Hattrup #1-3
Job Ticket: 47638 **DST#: 1**
Test Start: 2012.06.29 @ 11:30:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	26000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	95% water 5% mud trace of oil	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Water Chl. .2@90=26000 chl.

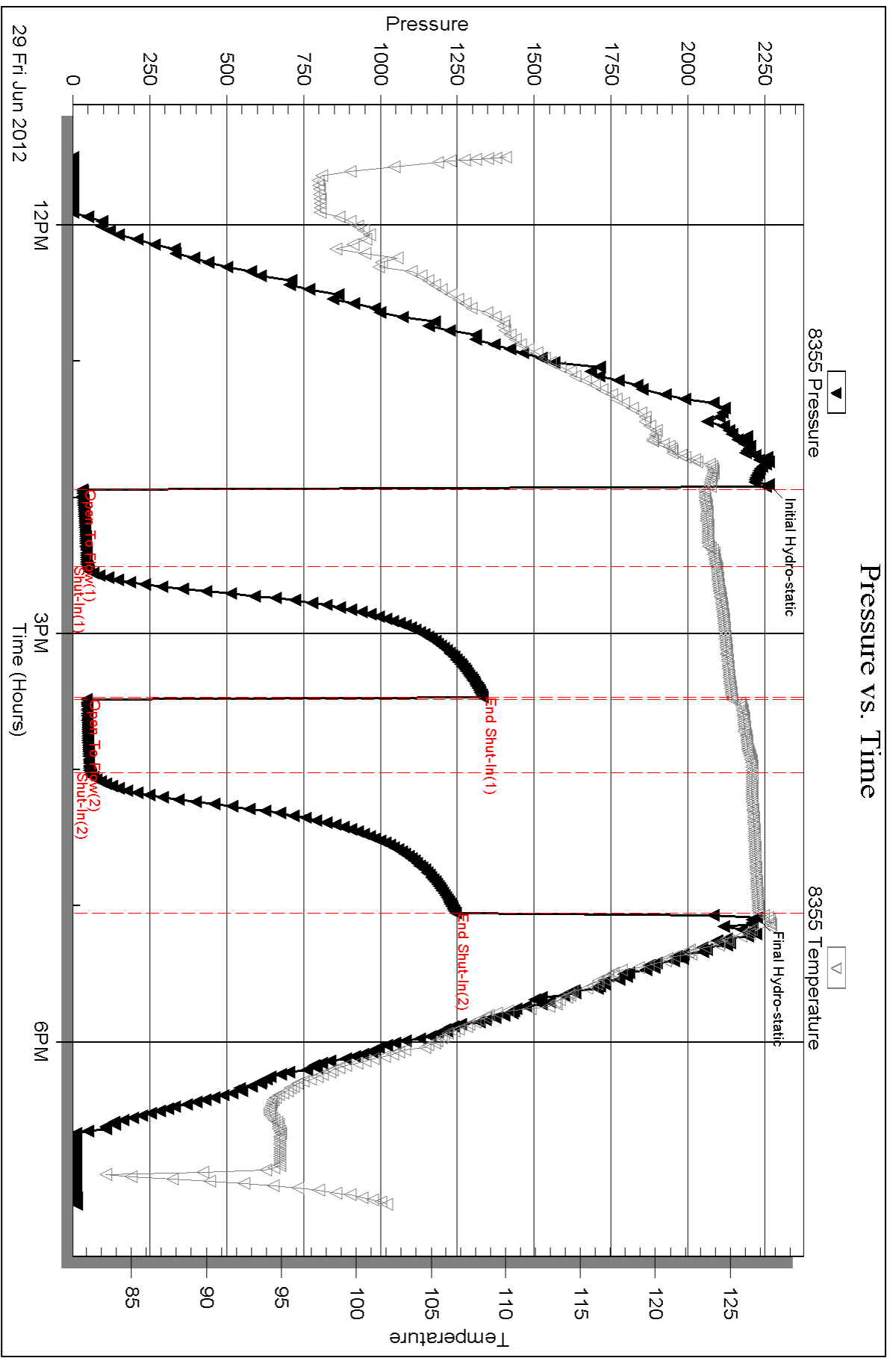
Serial #: 8355

Inside

Murfin Drilling Co.

Hattrup #1-3

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 47638

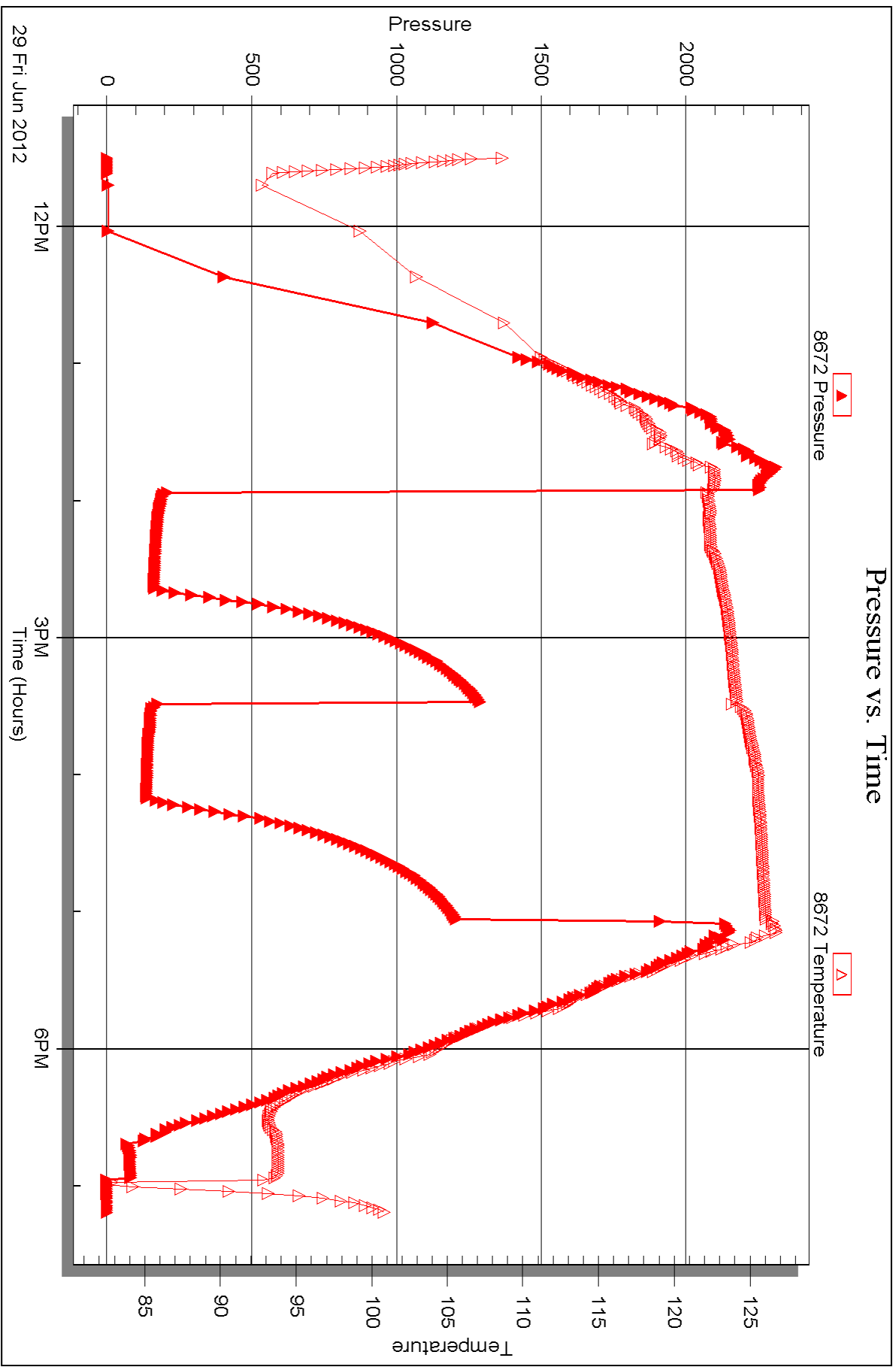
Printed: 2012.07.06 @ 11:37:37

Serial #: 8672

Outside Murfin Drilling Co.

Hattrup #1-3

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water Ste. 300
Wichita KS 67202-1216

ATTN: Robert Hendrix

Hattrup #1-3

3-24s-20w Edwards,KS

Start Date: 2012.06.30 @ 03:31:25

End Date: 2012.06.30 @ 12:08:51

Job Ticket #: 47610 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.07.06 @ 11:35:45



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N Water Ste. 300
Wichita KS 67202-1216
ATTN: Robert Hendrix

3-24s-20w Edwards,KS
Hattrup #1-3
Job Ticket: 47610 **DST#: 2**
Test Start: 2012.06.30 @ 03:31:25

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:38:06
Time Test Ended: 12:08:51
Interval: **4626.00 ft (KB) To 4693.00 ft (KB) (TVD)**
Total Depth: 4693.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 45
Reference Elevations: 2285.00 ft (KB)
2274.00 ft (CF)
KB to GR/CF: 11.00 ft

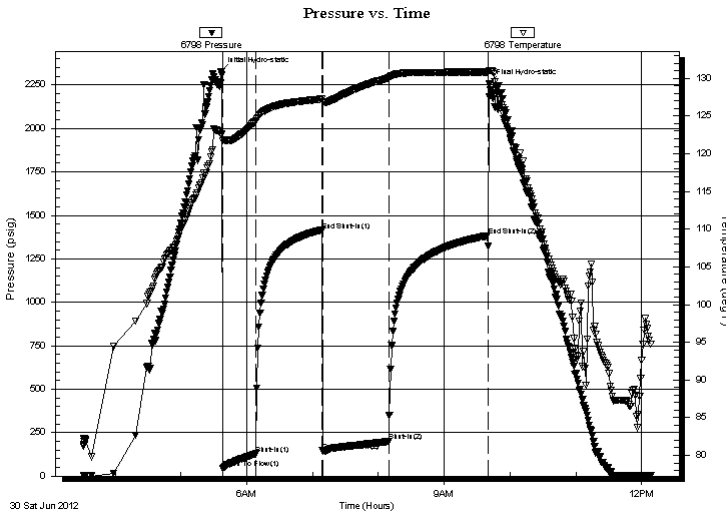
Serial #: 6798

Inside

Press @ Run Depth: 199.08 psig @ 4627.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.06.30 End Date: 2012.06.30 Last Calib.: 2012.06.30
Start Time: 03:31:26 End Time: 12:08:51 Time On Btm: 2012.06.30 @ 05:36:36
Time Off Btm: 2012.06.30 @ 09:41:20

TEST COMMENT: IF: Fair Blow Built to 5 inches
IS: No Blow Back
FF: Weak Blow, Built to 2 inches
FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2328.60	122.63	Initial Hydro-static
2	42.92	121.75	Open To Flow (1)
32	127.88	124.33	Shut-In(1)
92	1411.42	127.25	End Shut-In(1)
93	142.73	126.87	Open To Flow (2)
153	199.08	130.04	Shut-In(2)
243	1383.39	130.86	End Shut-In(2)
245	2257.51	131.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Water	0.59
62.00	MCW 30%M 70%W	0.30
147.00	GCM 2%G 98%M	1.28
1.00	Oil	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.
250 N Water Ste. 300
Wichita KS 67202-1216
ATTN: Robert Hendrix

3-24s-20w Edwards, KS
Hattrup #1-3
Job Ticket: 47610 **DST#: 2**
Test Start: 2012.06.30 @ 03:31:25

Tool Information

Drill Pipe:	Length: 4368.00 ft	Diameter: 3.80 inches	Volume: 61.27 bbl	Tool Weight: 2100.00 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: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 62.59 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	4626.00 ft			Final 87000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 7.78 inches		

Tool Comments:

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

Shut In Tool	5.00			4609.00	
Hydraulic tool	5.00			4614.00	
Safety Joint	2.00			4616.00	
Packer	5.00			4621.00	22.00 Bottom Of Top Packer
Packer	5.00			4626.00	
Stubb	1.00			4627.00	
Recorder	0.00	6798	Inside	4627.00	
Recorder	0.00	8367	Outside	4627.00	
Perforations	9.00			4636.00	
Change Over Sub	1.00			4637.00	
Drill Pipe	32.00			4669.00	
Change Over Sub	1.00			4670.00	
Perforations	20.00			4690.00	
Bullnose	3.00			4693.00	67.00 Bottom Packers & Anchor

Total Tool Length: 89.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

3-24s-20w Edwards,KS

250 N Water Ste. 300
Wichita KS 67202-1216

Hatrup #1-3

Job Ticket: 47610

DST#: 2

ATTN: Robert Hendrix

Test Start: 2012.06.30 @ 03:31:25

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:

95000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	Water	0.590
62.00	MCW 30%M 70%W	0.305
147.00	GCM 2%G 98%M	1.279
1.00	Oil	0.014

Total Length: 330.00 ft Total Volume: 2.188 bbl

Num Fluid Samples: 0

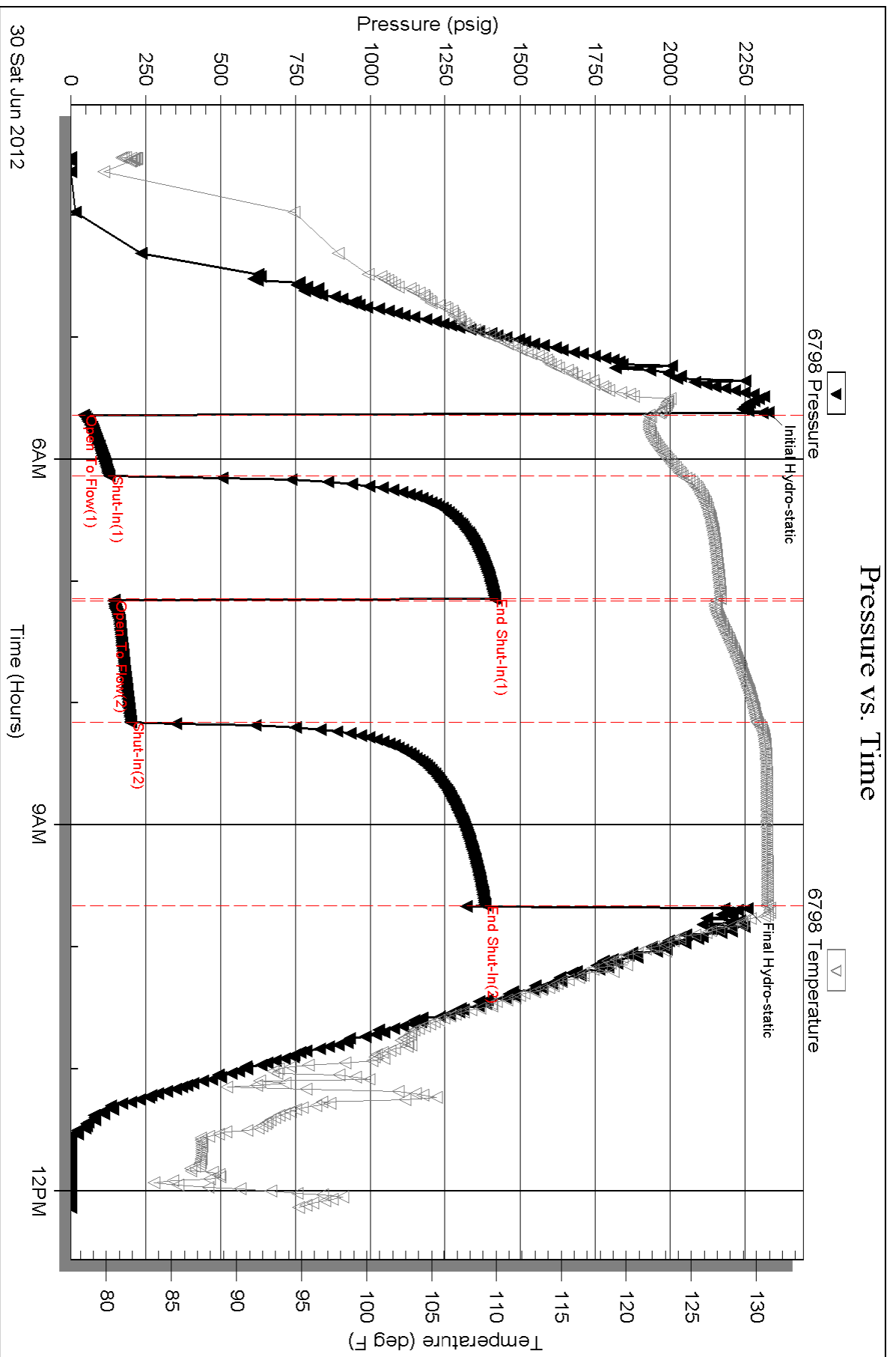
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .065 @ 88 degrees

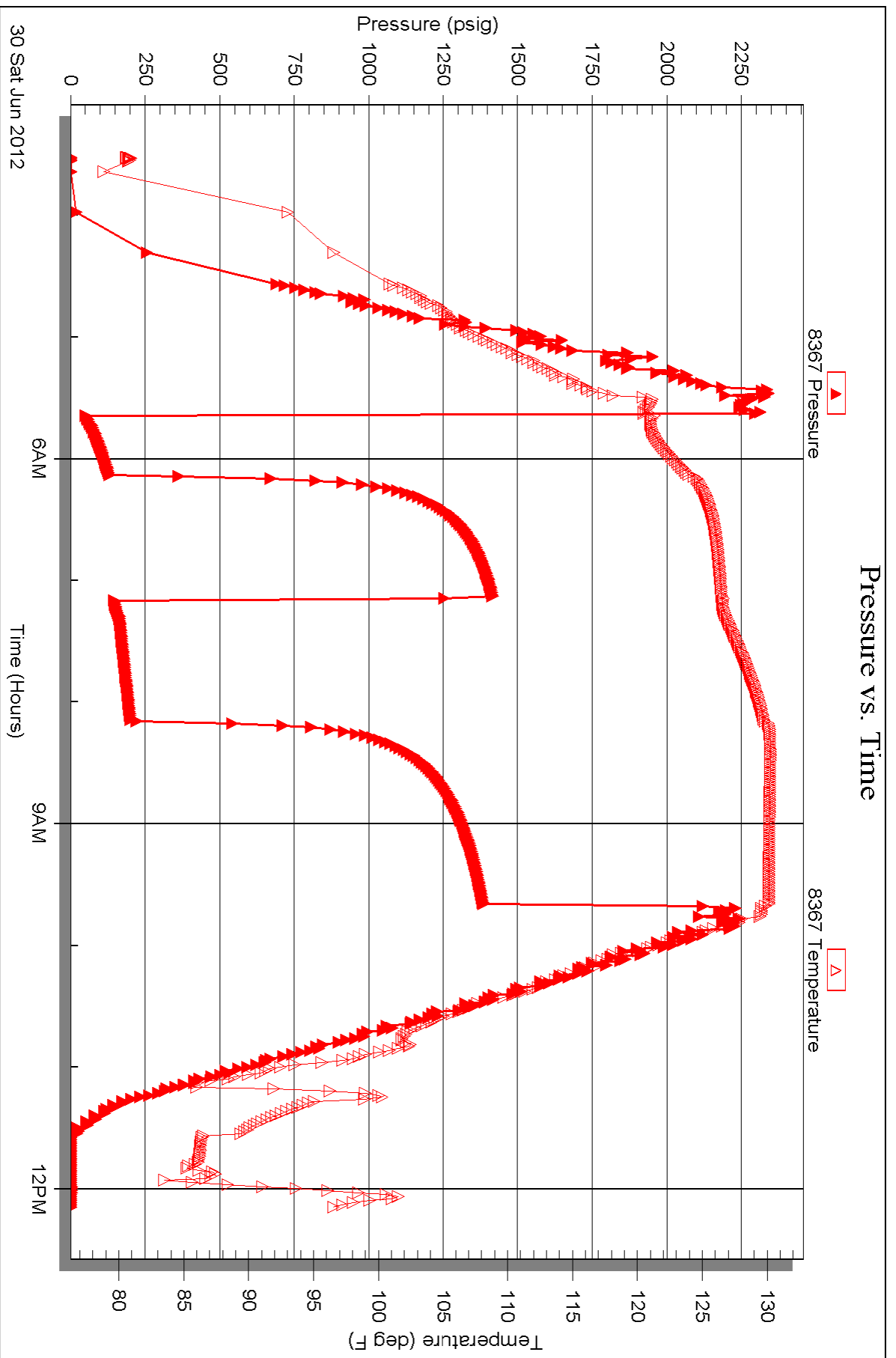


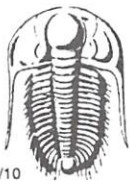
Serial #: 8367

Outside Murfin Drilling Co.

Hattrup #1-3

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47638

Well Name & No. Hattrop #1-3 Test No. 1 Date 6-29-12
 Company Morfin Drilling Co Inc. Elevation 2285 KB 2274 GL
 Address 250 N Water Ste 300 Wichita KS 67202-1216
 Co. Rep / Geo. Robert Hendrix Rig Morfin 21
 Location: Sec. 3 Twp. 24 Rge. 20 Co. Edwards State KS

Interval Tested 4626 - 4657 Zone Tested MISS
 Anchor Length 31 Drill Pipe Run 4335 Mud Wt. 9.4
 Top Packer Depth 4621 Drill Collars Run 296 Vis 46
 Bottom Packer Depth 4626 Wt. Pipe Run Ø WL 8.8
 Total Depth 4657 Chlorides 3500 ppm System LCM 3
 Blow Description IF-Weak blow 1/2 into bucket and died.
IST- No blow back
EF- No blow
FST- No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>		<u>Trace</u>	<u>95</u>	<u>5</u>	

Rec Total 60' BHT _____ Gravity _____ API RW 0.2 @ 90 °F Chlorides 26000 ppm
 (A) Initial Hydrostatic 2264 Test 1300 1250 T-On Location 10 30 Am
 (B) First Initial Flow 31 Jars 250 T-Started 11 30 Am
 (C) First Final Flow 47 Safety Joint 75 T-Open 2 15 PM
 (D) Initial Shut-In 1334 Circ Sub _____ T-Pulled 5 15 PM
 (E) Second Initial Flow 45 Hourly Standby _____ T-Out 7 30
 (F) Second Final Flow 56 Mileage 200 round trip, 160rt 248 Comments _____
 (G) Final Shut-In 1745 Sampler _____
 (H) Final Hydrostatic 2224 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1823

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

Approved By Robert Hendrix Our Representative Archie D. ...

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47610

Well Name & No. Hattrup 1-3 Test No. 2 Date 06/30/12
 Company Murfin Drilling Co Elevation 2285 KB 2274 GL
 Address 250 N. Water Ste 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin 21
 Location: Sec. 3 Twp. 24 Rge. 20 Co. Edwards State KS

Interval Tested 4626 - 4693 Zone Tested Mississippi
 Anchor Length 67 Drill Pipe Run 4368 Mud Wt. 9.4
 Top Packer Depth 4621 Drill Collars Run 268 Vis 46
 Bottom Packer Depth 4626 Wt. Pipe Run 0 WL 8.8
 Total Depth 4693 Chlorides 3500 ppm System LCM

Blow Description IF: Fair Blow Built to 5 inches

ISI: NO BLOW BACK

FF: weak Blow Built to 2 inches

FSI: NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Oil</u>				
<u>147</u>	<u>MCW GCM</u>	<u>2</u>			<u>98</u>
<u>62</u>	<u>MCW</u>			<u>70</u>	<u>30</u>
<u>120</u>	<u>water</u>				

Rec Total 330 BHT 131 Gravity N/C API RW .065 @ 88 °F Chlorides 95000 ppm

(A) Initial Hydrostatic	<u>2328</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>03:00</u>
(B) First Initial Flow	<u>43</u>	<input type="checkbox"/> Jars		T-Started	<u>03:31</u>
(C) First Final Flow	<u>128</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>05:38</u>
(D) Initial Shut-In	<u>1411</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>09:39</u>
(E) Second Initial Flow	<u>143</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>12:08</u>
(F) Second Final Flow	<u>199</u>	<input checked="" type="checkbox"/> Mileage	<u>1607</u> 248	Comments	
(G) Final Shut-In	<u>1383</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2257</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
		<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
		<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	

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

Sub Total 1573

Sub Total 0
 Total 1573
 MP/DST Disc't

Approved By [Signature] 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.



PO Box 93999
Southlake, TX 76092

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

acct.
Prod-Liz H

INVOICE

Invoice Number: 131583

Invoice Date: Jun 23, 2012

Page: 1



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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	Hatrup # 1-3	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Jun 23, 2012	7/23/12

Quantity	Item	Description	Unit Price	Amount
260.00	MAT	Class A Common	16.25	4,225.00
9.00	MAT	Chloride	58.20	523.80
272.99	SER	Handling	2.10	573.28
60.00	SER	Ton mlles	29.56	1,773.78
1.00	SER	Surface	1,125.00	1,125.00
51.00	SER	Extra Footage	0.95	48.45
60.00	SER	Heavy Vehicle Mileage	7.00	420.00
60.00	SER	Light Vehicle Mileage	4.00	240.00
1.00	EQUIP OPER	Dustn Chambers		
1.00	EQUIP OPER	Kerry Rose		
1.00	EQUIP OPER	Joel Monahan		

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

\$3125.25

ONLY IF PAID ON OR BEFORE

Jul 18, 2012

Subtotal	8,929.31
Sales Tax	346.66
Total Invoice Amount	9,275.97
Payment/Credit Applied	
TOTAL	9,275.97

PKD

ALLIED OIL & GAS SERVICES, LLC 053633

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Great Bend, KS

DATE <u>6-23-12</u>	SEC. <u>3</u>	TWP. <u>24s</u>	RANGE <u>70w</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30</u>	JOB FINISH <u>12:30</u>
LEASE <u>HATTUP</u>	WELL # <u>1-3</u>	LOCATION <u>off rd, KS 2E 6N E.</u>			COUNTY <u>Edwards</u>	STATE <u>Kansas</u>	
OLD OR NEW (Circle one)			<u>in rd</u>				

CONTRACTOR Murfin Drilling Big 21
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D.
 CASING SIZE 5 5/8 DEPTH 351
 TUBING SIZE DEPTH
 DRILL PIPE 1 1/2 DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15 ft
 PERFS.
 DISPLACEMENT 23.31 bbls Fresh water

OWNER
 CEMENT
 AMOUNT ORDERED 2605x Class A 37-cc

EQUIPMENT
 PUMP TRUCK CEMENTER Dustin C
 # 395 HELPER Kelly B
 BULK TRUCK
 # 341 DRIVER Joel M
 BULK TRUCK
 # DRIVER

COMMON	<u>260</u>	@ <u>16.25</u>	<u>4,225.00</u>
POZMIX		@	
GEL		@	
CHLORIDE	<u>9</u>	@ <u>58.20</u>	<u>523.80</u>
ASC		@	
HANDLING	<u>272.77</u>	@ <u>2.10</u>	<u>573.37</u>
MILEAGE	<u>12.58 x 60</u>	@ <u>2.35</u>	<u>1,773.78</u>
			TOTAL <u>7,095.85</u>

REMARKS:

See Cement Log
Plug Pump 12:00 AM

SERVICE

DEPTH OF JOB	<u>351</u>		
PUMP TRUCK CHARGE	<u>0-360</u>	@ <u>1125.00</u>	
EXTRA FOOTAGE	<u>51</u>	@ <u>.95</u>	<u>48.45</u>
MILEAGE	<u>HVM 60</u>	@ <u>7.00</u>	<u>420.00</u>
MANIFOLD		@	
	<u>HVM 60</u>	@ <u>4.00</u>	<u>240.00</u>

CHARGE TO: Murfin Drilling Co. INC.
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 1,833.45

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.

SALES TAX (If Any) _____
 TOTAL CHARGES 8,929.30
 DISCOUNT 30% 3,125.25 IF PAID IN 30 DAYS
5,804.05

PRINTED NAME X Juan Tinoco
 SIGNATURE X Juan Tinoco
Thank You !!



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 131783

Invoice Date: Jul 1, 2012

Page: 1

creat. Prod. Litz



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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	Hattrup #1-3	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Great Bend	Jul 1, 2012	7/31/12

Quantity	Item	Description	Unit Price	Amount
102.00	MAT	Class A Common	16.25	1,657.50
68.00	MAT	Pozmix	8.50	578.00
6.00	MAT	Gel	21.25	127.50
180.00	SER	Handling	2.10	378.00
456.60	SER	Ton Mileage	2.35	1,073.01
1.00	SER	Rotary Plug	1,250.00	1,250.00
60.00	SER	Pump Truck Mileage	7.00	420.00
60.00	SER	Light Vehicle Mileage	4.00	240.00
1.00	EQUIP OPER	Greg Redetzke		
1.00	EQUIP OPER	Kerry Rose		
1.00	EQUIP OPER	Vince Pack		

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

\$ 2003.40

ONLY IF PAID ON OR BEFORE
Jul 26, 2012

Subtotal	5,724.01
Sales Tax	417.85
Total Invoice Amount	6,141.86
Payment/Credit Applied	
TOTAL	6,141.86

AKJ

ALLIED OIL & GAS SERVICES, LLC 053669

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Great Bend, KS

DATE <u>7-1-12</u>	SEC. <u>3</u>	TWP. <u>24</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION	JOB START <u>8:30 pm</u>	JOB FINISH <u>9:30 pm</u>
LEASE <u>Hoffman</u>	WELL# <u>1-3</u>	LOCATION <u>OFFERLE, KS least</u>			COUNTY <u>Edwards</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>5 North, east into</u>				

CONTRACTOR <u>Murphy Rig # 21</u>	OWNER <u>Murphy Drilling</u>
TYPE OF JOB <u>Notary Plug</u>	
HOLE SIZE <u>17 7/8</u> T.D.	CEMENT
CASING SIZE _____ DEPTH _____	AMOUNT ORDERED <u>170 lbs 60/100</u>
TUBING SIZE _____ DEPTH _____	<u>400 gel</u>
DRILL PIPE _____ DEPTH _____	
TOOL _____ DEPTH _____	
PRES. MAX _____ MINIMUM _____	COMMON <u>102</u> @ <u>16.25</u> <u>1,657.50</u>
MEAS. LINE _____ SHOE JOINT _____	POZMIX <u>68</u> @ <u>8.50</u> <u>578.00</u>
CEMENT LEFT IN CSG. _____	GEL <u>6</u> @ <u>21.25</u> <u>127.50</u>
PERFS. _____	CHLORIDE @ _____
DISPLACEMENT _____	ASC @ _____

EQUIPMENT

PUMP TRUCK # <u>395</u>	CEMENTER <u>Greg R</u>
BULK TRUCK # <u>344/140</u>	HELPER <u>Kerry R</u>
BULK TRUCK # _____	DRIVER <u>Vince P</u>
BULK TRUCK # _____	DRIVER _____

HANDLING <u>180</u>	@ <u>2.10</u>	<u>378.00</u>
MILEAGE <u>7.61 x 60 x</u>	<u>2.35</u>	<u>1073.01</u>
TOTAL		<u>3,814.01</u>

REMARKS:

1st plug with 50SK @ 1400'
2nd plug " 50SK @ 1400'
3rd plug " 50SK @ 65'
50SK in hole
20 SKs in mouse hole
plug down @ 9:15 pm

SERVICE

DEPTH OF JOB <u>1400</u>	
PUMP TRUCK CHARGE _____	<u>1250.00</u>
EXTRA FOOTAGE @ _____	
MILEAGE <u>Hum 60</u> @ <u>8.00</u>	<u>420.00</u>
MANIFOLD <u>LUM 60</u> @ <u>4.00</u>	<u>240.00</u>
TOTAL <u>1910.00</u>	

CHARGE TO: Murphy Drilling

STREET _____

CITY _____ STATE _____ ZIP _____

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 X Juan Tinoco

SIGNATURE X Juan Tinoco
Thanks You!

SALES TAX (If Any) _____
TOTAL CHARGES <u>5,724.01</u>
DISCOUNT <u>35%</u> <u>2,003.40</u>
TOTAL <u>3,720.60</u>

IF PAID IN 30 DAYS