



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1183404
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: _____

1183404

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

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

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

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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MDCI Zellner #1-3 1425' FNL 330' FWL Sec. 3-T18S-R36W 3280' KB							Helmerich & Payne Metheny #1-1 660FNL 660FWL Sec. 1-T18S-R36W 3245' KB	
Formation	Sample Top	Datum	Ref	Log tops	Datum	Ref	Log Top	Datum
Anhydrite				2334	+946	+71	2370	+875
B/Anhydrite	2423	+857	+73	2424	+856	+72	2461	+784
Topeka	3701	-421	+88	3701	-421	+88	3754	-509
Heebner	3941	-661	+96	3944	-664	+93	4002	-757
Lansing	3988	-708	+97	3989	-709	+96	4050	-805
Stark	4263	-983	+102	4266	-986	+99	4330	-1085
Pawnee	4527	-1238	+99	4515	-1235	+102	4582	-1337
Ft. Scott	4562	-1282	+101	4566	-1286	+97	4628	-1383
Cherokee	4592	-1312	+95	4594	-1314	+93	4652	-1407
Morrow	4750	-1470	+92	4750	-1470	+92	4807	-1562
Mississippian	4869	-1589	+65	4871	-1591	+63	4899	-1654
RTD	5070						5800	
LTD				5071			4804	



DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita KS 67202 -1216

ATTN: Jeff Christian

Zellner #1-3

3-18s-36w Wichita,KS

Start Date: 2013.10.13 @ 18:18:00

End Date: 2013.10.14 @ 01:26:00

Job Ticket #: 52983 DST #: 1

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

Printed: 2013.10.21 @ 10:30:33



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company, Inc.

3-18s-36w Wichita, KS

250 N Water STE 300
Wichita KS 67202 -1216

Zellner #1-3

Job Ticket: 52983

DST#: 1

ATTN: Jeff Christian

Test Start: 2013.10.13 @ 18:18:00

GENERAL INFORMATION:

Formation: **Kansas City " I "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:27:15

Time Test Ended: 01:26:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 46

Interval: 4206.00 ft (KB) To 4236.00 ft (KB) (TVD)

Reference Elevations: 3280.00 ft (KB)

Total Depth: 4236.00 ft (KB) (TVD)

3269.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 25.71 psig @ 4207.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.13

End Date:

2013.10.14

Last Calib.: 2013.10.14

Start Time: 18:18:15

End Time:

01:26:00

Time On Btm: 2013.10.13 @ 20:27:00

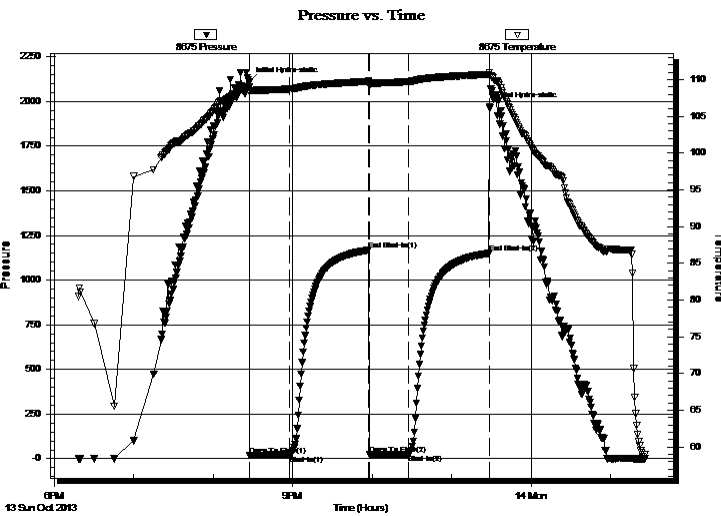
Time Off Btm: 2013.10.13 @ 23:28:30

TEST COMMENT: Built to 1/4", died in 28 min.

No return blow

No blow

No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.17	109.00	Initial Hydro-static
1	20.00	108.33	Open To Flow (1)
31	22.03	108.73	Shut-In(1)
91	1168.56	109.77	End Shut-In(1)
91	23.83	109.11	Open To Flow (2)
121	25.71	109.74	Shut-In(2)
182	1150.32	110.71	End Shut-In(2)
182	1971.90	110.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud w with few oil spots in tool	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc.

3-18s-36w Wichita,KS

250 N Water STE 300
Wichita KS 67202 -1216

Zellner #1-3

Job Ticket: 52983

DST#: 1

ATTN: Jeff Christian

Test Start: 2013.10.13 @ 18:18:00

Tool Information

Drill Pipe:	Length: 3948.66 ft	Diameter: 3.80 inches	Volume: 55.39 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: 30000.00 lb
Drill Collar:	Length: 238.65 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 56.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.81 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4206.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4179.50	
Shut In Tool	5.00			4184.50	
Hydraulic tool	5.00			4189.50	
Jars	5.00			4194.50	
Safety Joint	2.50			4197.00	
Packer	5.00			4202.00	27.50 Bottom Of Top Packer
Packer	4.00			4206.00	
Stubb	1.00			4207.00	
Recorder	0.00	8675	Inside	4207.00	
Recorder	0.00	8650	Outside	4207.00	
Perforations	26.00			4233.00	
Change Over Sub	0.00			4233.00	
Drill Pipe	0.00			4233.00	
Change Over Sub	0.00			4233.00	
Bullnose	3.00			4236.00	30.00 Bottom Packers & Anchor

Total Tool Length: 57.50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc.

3-18s-36w Wichita,KS

250 N Water STE 300
Wichita KS 67202 -1216

Zellner #1-3

Job Ticket: 52983

DST#: 1

ATTN: Jeff Christian

Test Start: 2013.10.13 @ 18:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 91.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	100% Mud with few oil spots in tool	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

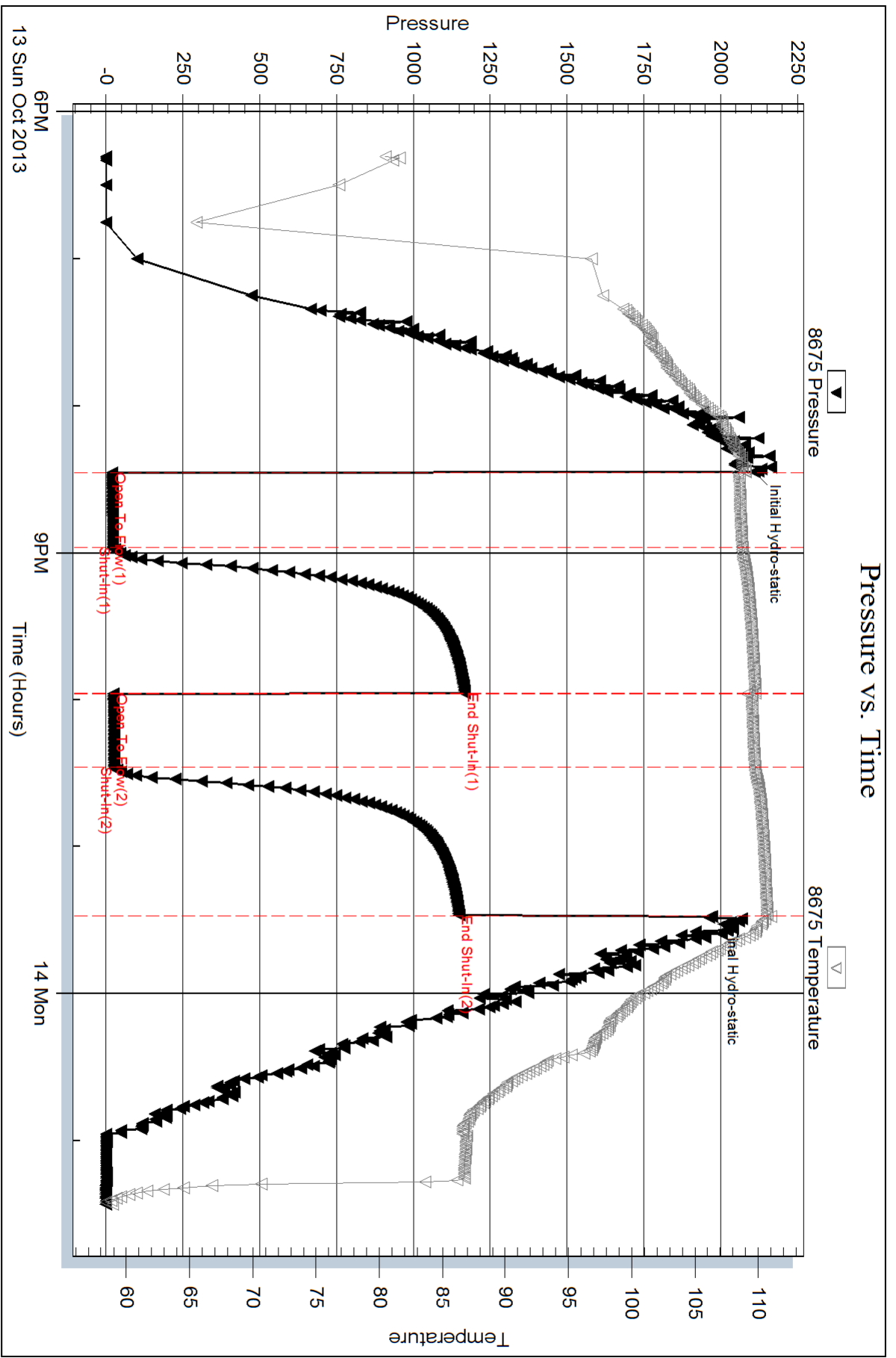
Serial #: 8675

Inside

Murfin Drilling Company, Inc.

Zellner #1-3

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 52983

Printed: 2013.10.21 @ 10:30:34



DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita KS 67202 -1216

ATTN: Jeff Christian

Zellner #1-3

3-18s-36w Wichita,KS

Start Date: 2013.10.16 @ 06:30:00

End Date: 2013.10.16 @ 14:58:30

Job Ticket #: 52984 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.21 @ 10:30:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company, Inc.

3-18s-36w Wichita, KS

250 N Water STE 300
Wichita KS 67202 -1216

Zellner #1-3

Job Ticket: 52984

DST#: 2

ATTN: Jeff Christian

Test Start: 2013.10.16 @ 06:30:00

GENERAL INFORMATION:

Formation: **Marmaton " A & B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:49:30

Time Test Ended: 14:58:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: **4441.00 ft (KB) To 4485.00 ft (KB) (TVD)**

Reference Elevations: 3280.00 ft (KB)

Total Depth: 4485.00 ft (KB) (TVD)

3269.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 74.81 psig @ 4442.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.16

End Date:

2013.10.16

Last Calib.:

2013.10.16

Start Time: 06:30:15

End Time:

14:58:30

Time On Btm:

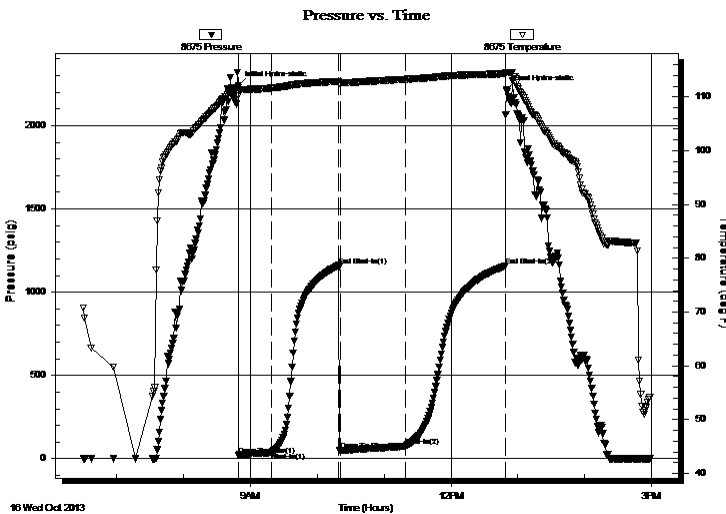
2013.10.16 @ 08:49:15

Time Off Btm:

2013.10.16 @ 12:50:00

TEST COMMENT: Built to 3" blow
Bled off for 2 min. No return blow
Built to 3 1/4" blow
Bled off for 2 min. No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.29	111.76	Initial Hydro-static
1	20.83	110.28	Open To Flow (1)
30	38.44	111.65	Shut-In(1)
90	1160.24	112.89	End Shut-In(1)
92	48.93	112.58	Open To Flow (2)
150	74.81	113.26	Shut-In(2)
240	1156.68	114.29	End Shut-In(2)
241	2215.60	114.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gco 10%G 90%O	0.30
90.00	gcmo 10%G 30%M 60%O	0.44

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company, Inc.

3-18s-36w Wichita,KS

250 N Water STE 300
Wichita KS 67202 -1216

Zellner #1-3

Job Ticket: 52984

DST#: 2

ATTN: Jeff Christian

Test Start: 2013.10.16 @ 06:30:00

Tool Information

Drill Pipe:	Length: 4199.17 ft	Diameter: 3.80 inches	Volume: 58.90 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: 30000.00 lb
Drill Collar:	Length: 238.65 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 60.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.32 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4441.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	71.50 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			4414.50	
Shut In Tool	5.00			4419.50	
Hydraulic tool	5.00			4424.50	
Jars	5.00			4429.50	
Safety Joint	2.50			4432.00	
Packer	5.00			4437.00	27.50 Bottom Of Top Packer
Packer	4.00			4441.00	
Stubb	1.00			4442.00	
Recorder	0.00	8675	Inside	4442.00	
Recorder	0.00	8650	Outside	4442.00	
Perforations	40.00			4482.00	
Change Over Sub	0.00			4482.00	
Drill Pipe	0.00			4482.00	
Change Over Sub	0.00			4482.00	
Bullnose	3.00			4485.00	44.00 Bottom Packers & Anchor

Total Tool Length: 71.50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company, Inc.

3-18s-36w Wichita,KS

250 N Water STE 300
Wichita KS 67202 -1216

Zellner #1-3

Job Ticket: 52984

DST#: 2

ATTN: Jeff Christian

Test Start: 2013.10.16 @ 06:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	gco 10%G 90%O	0.295
90.00	gcmo 10%G 30%M 60%O	0.443

Total Length: 150.00 ft Total Volume: 0.738 bbl

Num Fluid Samples: 0

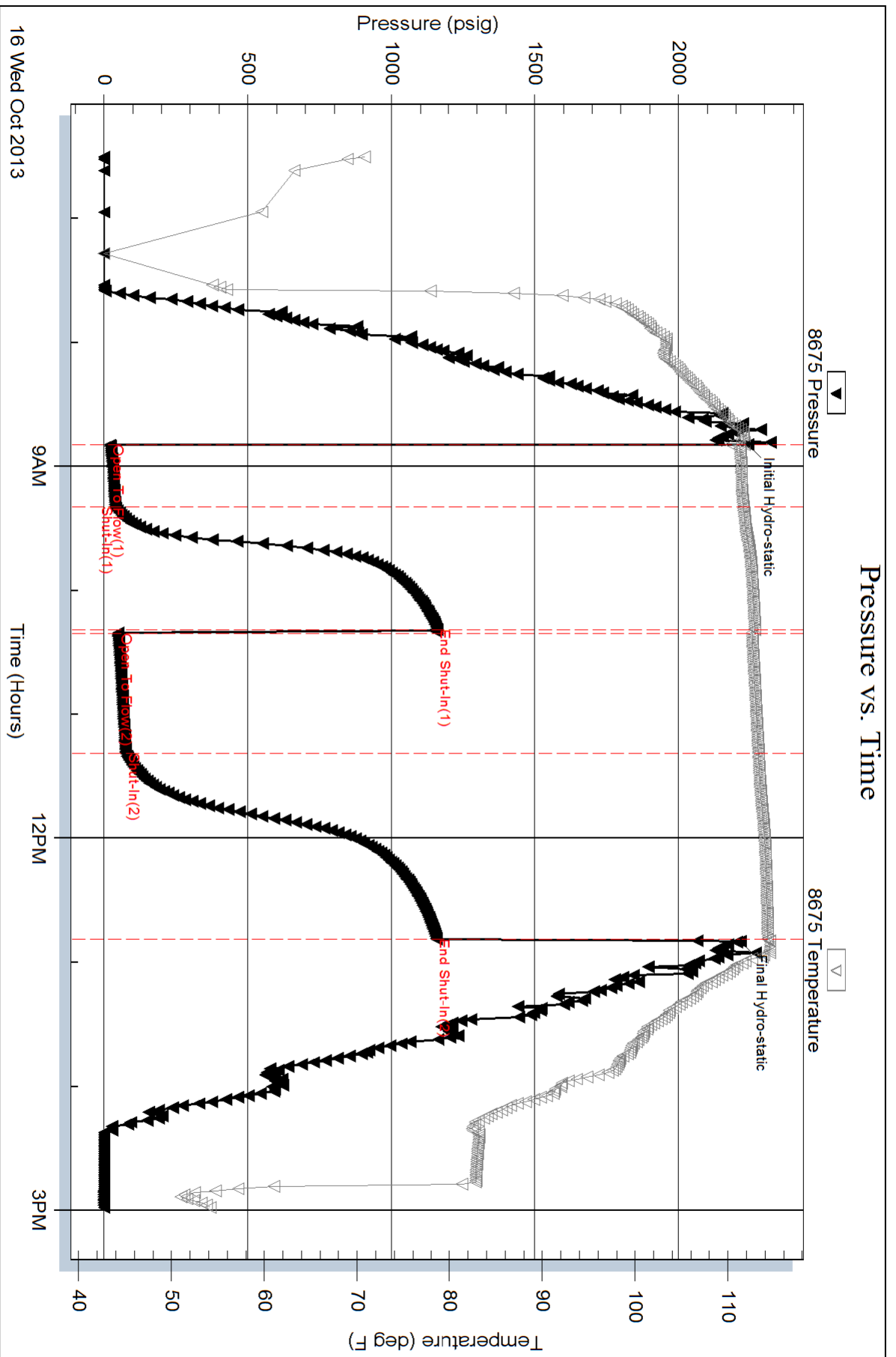
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 29 @ 50 F = 30

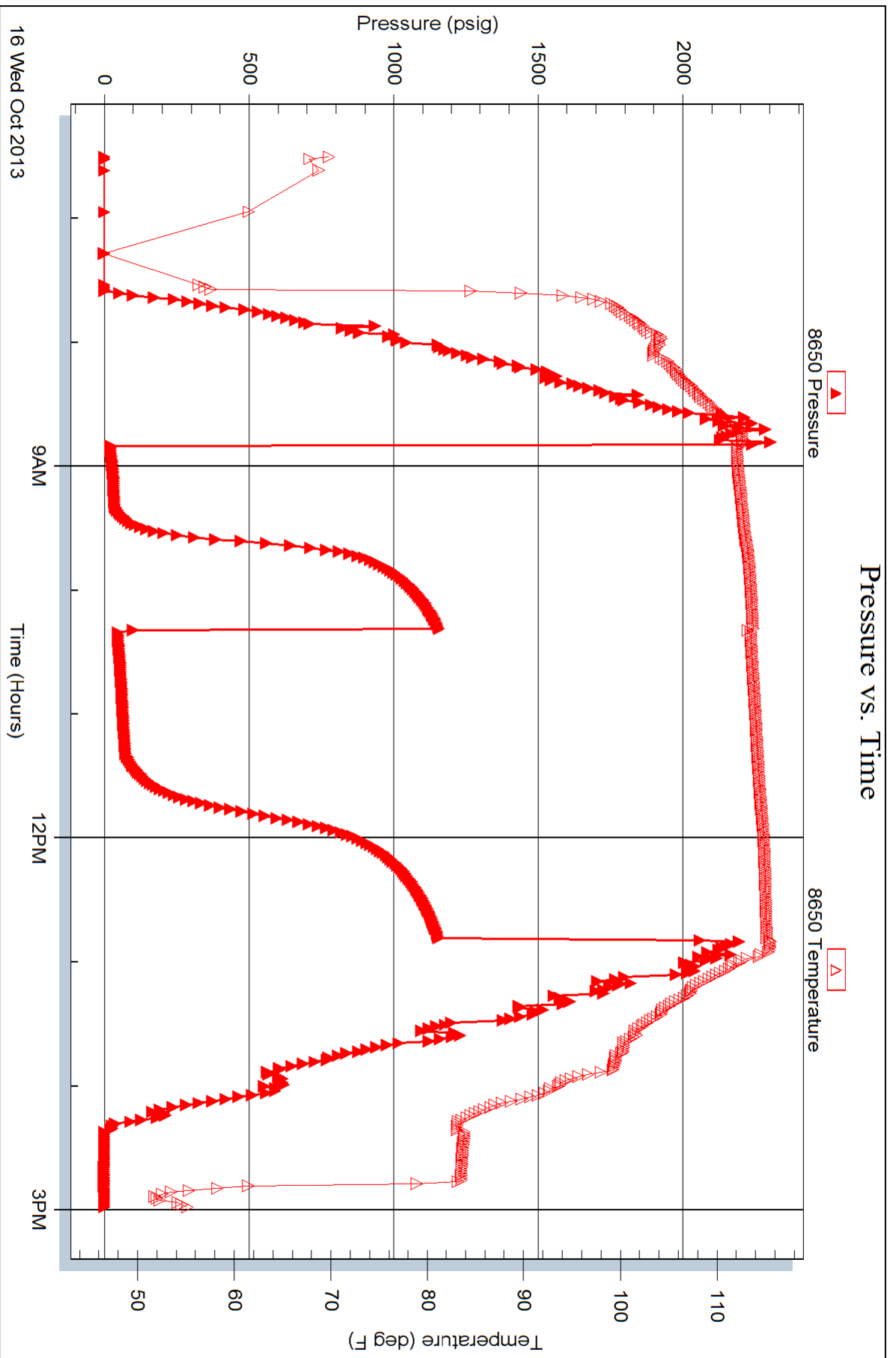


Serial #: 8650

Outside Murfin Drilling Company, Inc.

Zellner #1-3

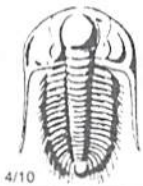
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 52984

Printed: 2013.10.21 @ 10:30:10



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52983

Well Name & No. Zellner 1-3 Test No. 1 Date 10/13/13 10/14/14
 Company Martin Drilling Company, Inc Elevation 3280 KB 3269 GL
 Address 250 N Water STE 300 Wichita KS, 67202-1216
 Co. Rep / Geo. Jeff Christian Rig Martin Rig 22
 Location: Sec. 3 Twp. 185 Rge. 36w Co. Wichita Co. State Kansas

Interval Tested 4206-4236 Zone Tested Kansas City "I"
 Anchor Length 30 Drill Pipe Run 3948.66 Mud Wt. 9.1
 Top Packer Depth 4202 Drill Collars Run 238.65 Vis 57
 Bottom Packer Depth 4206 Wt. Pipe Run _____ WL 6.8
 Total Depth 4236 Chlorides 9,300 ppm System LCM 4#
 Blow Description Built to 1/4", died in 28 min.
No return below
No below
no return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud with few oil spots in top</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 10 BHT 111 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2,109</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>17:15</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>18:18</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:28</u>
(D) Initial Shut-In <u>1,169</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>23:28</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>01:26</u>
(F) Second Final Flow <u>26</u>	<input checked="" type="checkbox"/> Mileage <u>60 BT</u> <u>93</u>	Comments _____
(G) Final Shut-In <u>1,150</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1,972</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1668</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1668</u>	

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. 52984

Well Name & No. Zellner 1-3 Test No. 2 Date 10/16/13
 Company Martin Drilling Company, Inc Elevation 3280 KB 3269 GL
 Address 250 N Water STE 300 Wichita KS 67202-1216
 Co. Rep / Geo. Jeff Christian Rig Martin Rig 22
 Location: Sec. 3 Twp. 18S Rge. 3E Co. Wichita Co. State KS

Interval Tested 4441-4485 Zone Tested Marmaton "A+B"
 Anchor Length 44 Drill Pipe Run 4199.17 Mud Wt. 9.3
 Top Packer Depth 4437 Drill Collars Run 238.65 Vis 6.3
 Bottom Packer Depth 4441 Wt. Pipe Run _____ WL 9.2
 Total Depth 4485 Chlorides 10,500 ppm System LCM 5#

Blow Description Built to 3" below
Bled off for 2 min. No return below

Built to 3 1/4" below
Bled off for 2 min. No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>600</u>	<u>10</u>	<u>90</u>		
<u>90</u>	<u>6000</u>	<u>10</u>	<u>60</u>		<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150 BHT 114 Gravity 30 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2,241 Test 1250 T-On Location 05:40
 (B) First Initial Flow 21 Jars 250 T-Started 06:30
 (C) First Final Flow 38 Safety Joint 75 T-Open 08:50
 (D) Initial Shut-In 1,160 Circ Sub N/C T-Pulled 12:50
 (E) Second Initial Flow 50 Hourly Standby _____ T-Out 14:58
 (F) Second Final Flow 75 Mileage 60 RT X 2 186 Comments Loaded tools on 10/20
 (G) Final Shut-In 1,157 Sampler _____ @ 07:00 so 3 days +
 (H) Final Hydrostatic 2,216 Straddle _____ 16 hrs standley

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 60 Extra Packer _____ Ruined Packer _____
 Final Flow 60 Extra Recorder 1d 28.25h Sub Total 3341.67
 Final Shut-In 90 Day Standby 2 day + 4 hrs from Total 5102.67
 Accessibility last test ended MP/DST Disc't _____
 Sub Total 1761

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.



PO Box 93999
Southlake, TX 76092

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

*acct.
Prod.-LH*

INVOICE

Invoice Number: 139129
Invoice Date: Oct 8, 2013
Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	61122	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Oct 8, 2013	11/7/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Zellner #1-3		
200.00	CEMENT MATERIALS	Class A Common	17.90	3,580.00
7.00	CEMENT MATERIALS	Chloride	64.00	448.00
210.00	CEMENT SERVICE	Cubic Feet	2.48	520.80
611.00	CEMENT SERVICE	Ton Mileage	2.60	1,588.60
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
65.00	CEMENT SERVICE	Pump Truck Mileage	7.70	500.50
1.00	CEMENT SERVICE	Swedge Manifold Rental	360.00	360.00
65.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	286.00
1.00	CEMENT SUPERVISOR	Kelly Gabel		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		
1.00	OPERATOR ASSISTANT	David Scariano		

OK

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

\$ 3,078.65

ONLY IF PAID ON OR BEFORE
Nov 2, 2013

Subtotal	8,796.15
Sales Tax	328.28
Total Invoice Amount	9,124.43
Payment/Credit Applied	
TOTAL	9,124.43

- 3078.65
6045.78

ALLIED OIL & GAS SERVICES, LLC 061122

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Cakley

Zellner

DATE <u>10-9-13</u>	SEC. <u>29</u>	TWP. <u>17</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION <u>6:30 PM</u>	JOB START <u>8:00 PM</u>	JOB FINISH <u>8:30 PM</u>
LEASE <u>General</u>	WELL # <u>1-29</u>	LOCATION <u>Lept. C to rd 15 3N</u>			COUNTY <u>Wichita</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Murkin OWNER Same

TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 268
 CASING SIZE 8 5/8 DEPTH 268
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH

CEMENT AMOUNT ORDERED 200SKs com 37acc

PRES. MAX MINIMUM
 MEAS. LINE SHOELINE
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT 16 bbl

COMMON 200SKs @ 170 35800
 POZMIX @
 GEL @
 CHLORIDE 75Ks @ 1400 44800
 ASC @

EQUIPMENT
 PUMP TRUCK CEMENTER Kelly Gabel
 # 422 HELPER Wayne McAlghy
 BULK TRUCK
 # 386 & 310 DRIVER David Scariano
 BULK TRUCK
 # DRIVER

HANDLING 210 skt @ 240 52080
 MILEAGE 9.5 ton x 65 mix 260 158800
 TOTAL 640740

REMARKS:
Safety meeting, rigged up
mixed 200SKs com 37acc
displaced
shutin

Cement did circulate

SERVICE
 DEPTH OF JOB 268
 PUMP TRUCK CHARGE 1512.50
 EXTRA FOOTAGE @
 MILEAGE MILV 65 @ 440 28600
 MANIFOLD Storage @ 36000
MHV 65 @ 720 50050
 TOTAL 265875

CHARGE TO: Murkin
 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 Kelly Wilson
 SIGNATURE Kelly Wilson

SALES TAX (if Any)
 TOTAL CHARGES 9,066.15
 DISCOUNT 3,173.15 IF PAID IN 30 DAYS
5,892.99 Net



PO Box 93999
Southlake, TX 76092

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

acc.
Prod-LH

INVOICE

Invoice Number: 139368
Invoice Date: Oct 20, 2013
Page: 1

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

Now Includes:



Customer-ID	Field Ticket #	Payment Terms	
Murfin	61182	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Oct 20, 2013	11/19/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Zellner #1-3		
180.00	CEMENT MATERIALS	Class A Common	17.90	3,222.00
120.00	CEMENT MATERIALS	Pozmix	9.35	1,122.00
10.00	CEMENT MATERIALS	Gel	23.40	234.00
75.00	CEMENT MATERIALS	Flo Seal	2.97	222.75
322.20	CEMENT SERVICE	Cubic Feet	2.48	799.06
1,009.05	CEMENT SERVICE	Ton Mileage	2.60	2,623.53
1.00	CEMENT SERVICE	Rotary Plug	2,483.59	2,483.59
75.00	CEMENT SERVICE	Pump Truck Mileage	7.70	577.50
75.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	330.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	OPERATOR ASSISTANT	Kevin Ryan		
1.00	OPERATOR ASSISTANT	Chris Helpingstone		

Subtotal	11,614.43
Sales Tax	946.58
Total Invoice Amount	12,561.01
Payment/Credit Applied	
TOTAL	12,561.01

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

\$ 4,065.05

ONLY IF PAID ON OR BEFORE

Nov 14, 2013

ALLIED OIL & GAS SERVICES, LLC 061182

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Duckley H₁

DATE <u>10/20/13</u>	SEC. <u>3</u>	TWP. <u>18</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION	JOB START <u>1:30 PM</u>	JOB FINISH <u>2:30 PM</u>
LEASE <u>2 year</u>	WELL# <u>1-3</u>	LOCATION <u>East of 15 NTH & Estelle</u>			COUNTY <u>Wichita</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>50 Feet</u>			

CONTRACTOR <u>Murphy 22</u>	OWNER <u>Sum</u>
TYPE OF JOB <u>PTA - Repair</u>	CEMENT
HOLE SIZE <u>7 7/8</u> T.D.	AMOUNT ORDERED <u>300.60 / 40.48 / 16.01</u>
CASING SIZE DEPTH	
TUBING SIZE DEPTH	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>180</u> @ <u>1.22</u> <u>322.20</u>
MEAS. LINE SHOE JOINT	POZMIX <u>120</u> @ <u>9.35</u> <u>1122.00</u>
CEMENT LEFT IN CSG.	GEL <u>10</u> @ <u>23.40</u>
PERFS.	CHLORIDE @
DISPLACEMENT	ASC @

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Alan Ryan</u>
# <u>22881</u>	HELPER <u>Kevin Ryan</u>
BULK TRUCK	
# <u>246</u>	DRIVER <u>Clay Helmsingline</u>
BULK TRUCK	
#	DRIVER

REMARKS:

2430' - 50 SK
1425' - 80 SK
735' - 50 SK
300' - 50 SK
100' - 20 SK

RH - 30 SK
MH - 20 SK

CHARGE TO: Murphy Drilling

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 Kelly Wilson

SIGNATURE Kelly Wilson

POZMIX	120	@	9.35	1122.00
GEL	10	@	23.40	
CHLORIDE		@		
ASC		@		
POZMIX	180	@	1.22	322.20
GEL	10	@	23.40	
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