



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1141781
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: _____



1141781

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
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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
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

May 24, 2013

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

Re: ACO1
API 15-051-26474-00-00
Kraus-Stecklein Unit 1-28
NW/4 Sec.28-14S-18W
Ellis 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

MDCI Kraus-Stecklein Unit #1-28 2475' FNL 1500' FWL Sec. 28-T14S-R18W 2081' KB	Tengasco, Inc Kraus AA #3 SE SW NE Sec. 28-T14S-R18W 2068' KB
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Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1274	+807	Flat	1270	+811	+4	1231	+807
B/Anhydrite	1317	+764	-1	1314	+767	+2	1303	+765
Topeka	3065	-984	-3	3063	-982	-1	3049	-981
Heebner	3325	-1244	-7	3322	-1241	-4	3305	-1237
Toronto	3345	-1264	-7	3343	-1262	-5	3325	-1257
Lansing	3373	-1292	-8	3371	-1290	-6	3352	-1284
Stark	3559	-1478	-4	3557	-1476	-2	3542	-1474
BKC	3611	-1530	-4	3608	-1527	-1	3594	-1526
Arbuckle	3689	-1608	-10	3687	-1606	-8	3666	-1598
RTD	3790						3740	
LTD				3788			3738	



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co inc.**

250 N Water STE 300
Wichita KS 67202

ATTN: Paul Gunzelman

28-14s-18w Ellis,KS

Kraus-Stecklein Unit #1-28

Start Date: 2013.02.08 @ 03:31:05

End Date: 2013.02.08 @ 10:11:59

Job Ticket #: 51472 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.19 @ 09:22:05

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

28-14s-18w Ellis,KS

DST # 1

Tor-LKC"A-B"

2013.02.08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

ATTN: Paul Gunzelman

Job Ticket: 51472

DST#: 1

Test Start: 2013.02.08 @ 03:31:05

GENERAL INFORMATION:

Formation: **Tor-LKC "A-B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:38:30

Time Test Ended: 10:11:59

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 39

Interval: 3324.00 ft (KB) To 3412.00 ft (KB) (TVD)

Reference Elevations: 2081.00 ft (KB)

Total Depth: 3412.00 ft (KB) (TVD)

2076.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press @ Run Depth: 28.98 psig @ 3330.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.08

End Date: 2013.02.08

Last Calib.: 2013.02.08

Start Time: 03:31:05

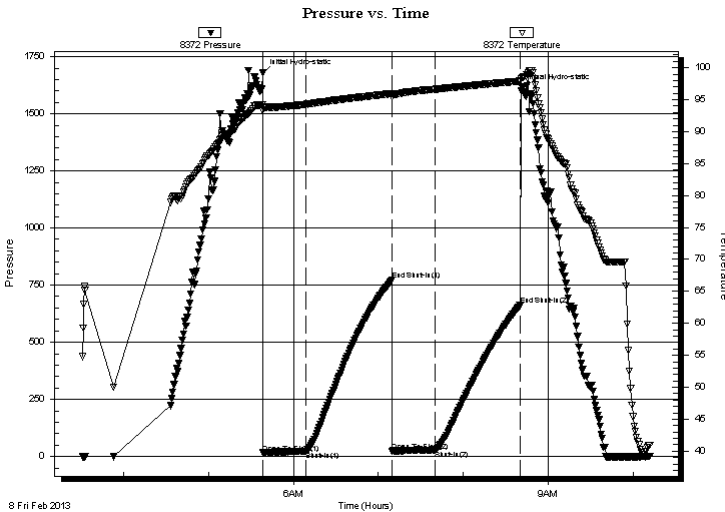
End Time: 10:11:59

Time On Btm: 2013.02.08 @ 05:38:10

Time Off Btm: 2013.02.08 @ 08:41:39

TEST COMMENT: IF:(30min) 1/2" Blow in 5 min. & throughout.
ISl:(60min) No Return
FF:(30min) Very weak surface blow, died in 6 min.
FSl:(60min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.72	94.23	Initial Hydro-static
1	15.39	93.26	Open To Flow (1)
31	22.58	94.26	Shut-In(1)
92	771.73	95.94	End Shut-In(1)
92	23.62	95.52	Open To Flow (2)
122	28.98	96.61	Shut-In(2)
182	662.48	97.89	End Shut-In(2)
184	1611.69	98.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w / oil spks 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 Co inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

Job Ticket: 51472

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2013.02.08 @ 03:31:05

Tool Information

Drill Pipe:	Length: 3298.00 ft	Diameter: 3.80 inches	Volume: 46.26 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 27.82 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 46.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.82 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3324.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3302.00	
Shut In Tool	5.00			3307.00	
Hydraulic tool	5.00			3312.00	
Safety Joint	3.00			3315.00	
Packer	5.00			3320.00	23.00 Bottom Of Top Packer
Packer	4.00			3324.00	
Stubb	1.00			3325.00	
Perforations	4.00			3329.00	
Change Over Sub	1.00			3330.00	
Recorder	0.00	8844	Inside	3330.00	
Recorder	0.00	8372	Outside	3330.00	
Drill Pipe	63.00			3393.00	
Change Over Sub	1.00			3394.00	
Perforations	15.00			3409.00	
Bullnose	3.00			3412.00	88.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

Job Ticket: 51472

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2013.02.08 @ 03:31:05

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: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.55 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	Mud w / oil spks 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:

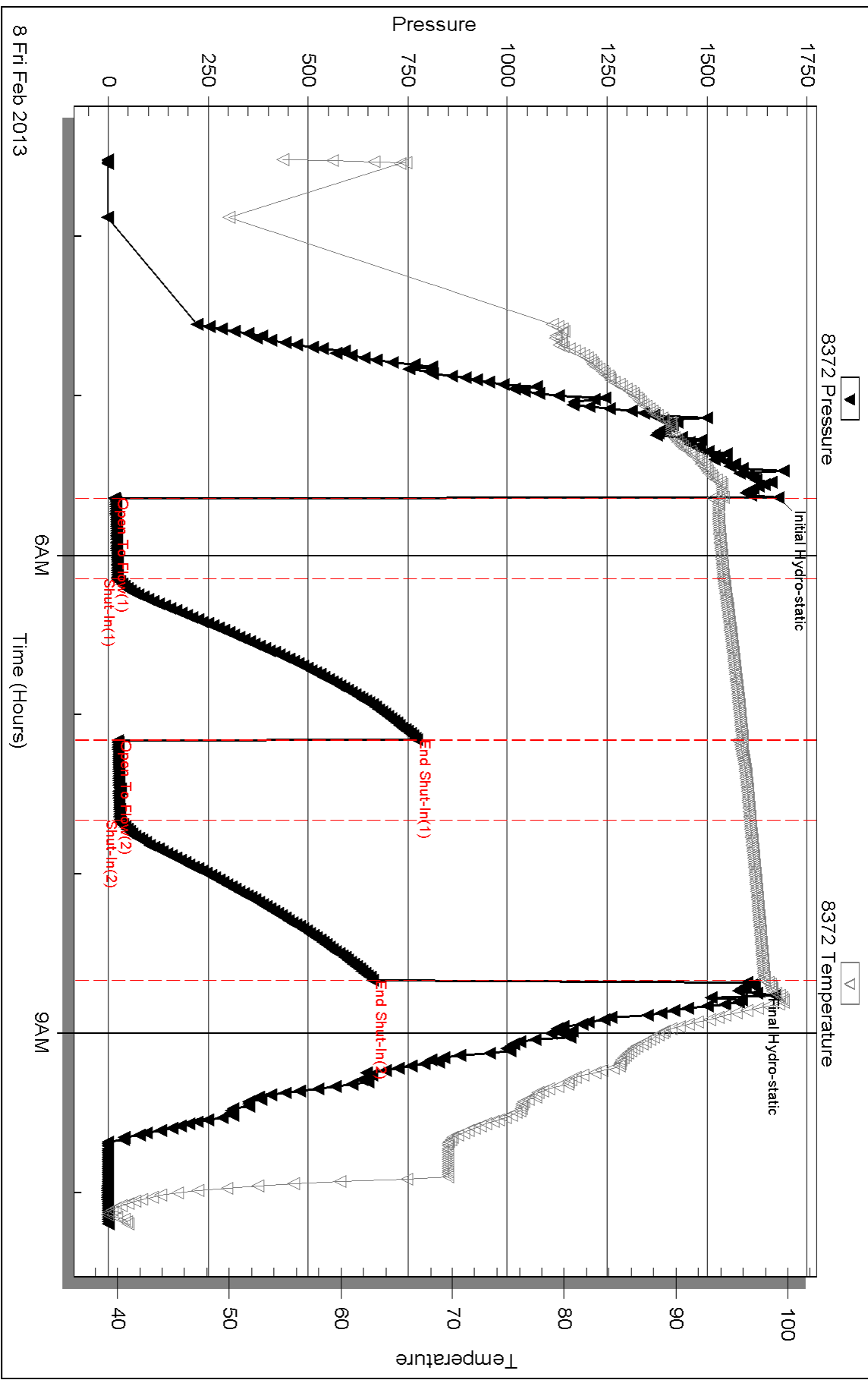
Serial #: 8372

Outside Murfin Drilling Co inc.

28-14s-18w Ellis,KS

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 51472

Printed: 2013.02.19 @ 09:22:08



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co inc.**

250 N Water STE 300
Wichita KS 67202

ATTN: Paul Gunzelman

28-14s-18w Ellis,KS

Kraus-Stecklein Unit #1-28

Start Date: 2013.02.08 @ 18:23:05

End Date: 2013.02.09 @ 01:16:50

Job Ticket #: 51473 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.19 @ 09:21:21

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

28-14s-18w Ellis,KS

DST # 2

LKC"D-F"

2013.02.08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

Job Ticket: 51473

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2013.02.08 @ 18:23:05

GENERAL INFORMATION:

Formation: **LKC"D-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:36:40

Time Test Ended: 01:16:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 3410.00 ft (KB) To 3463.00 ft (KB) (TVD)

Reference Elevations: 2081.00 ft (KB)

Total Depth: 3463.00 ft (KB) (TVD)

2076.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press @ RunDepth: 20.32 psig @ 3417.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.08

End Date:

2013.02.09

Last Calib.:

2013.02.09

Start Time:

18:23:05

End Time:

01:16:50

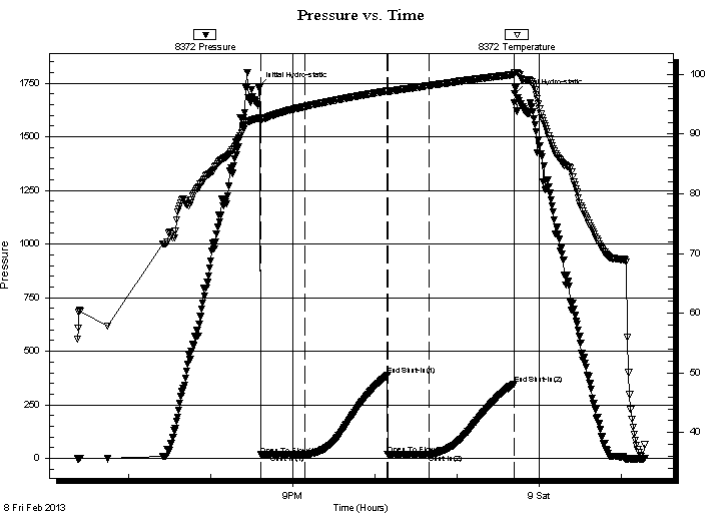
Time On Btm:

2013.02.08 @ 20:35:30

Time Off Btm:

2013.02.08 @ 23:41:59

TEST COMMENT: IF:(30min) Weak surface blow
ISl:(60min) No Return
FF:(30min) Weak surface blow , died in 6 min.
FSl:(60min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1733.34	92.71	Initial Hydro-static
2	16.98	92.13	Open To Flow (1)
34	17.08	94.61	Shut-In(1)
94	387.20	97.21	End Shut-In(1)
94	19.01	97.07	Open To Flow (2)
124	20.32	98.13	Shut-In(2)
186	347.50	99.97	End Shut-In(2)
187	1701.89	100.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/oil spks in tool	0.05

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 Co inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

Job Ticket: 51473

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2013.02.08 @ 18:23:05

Tool Information

Drill Pipe:	Length: 3390.00 ft	Diameter: 3.80 inches	Volume: 47.55 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 27.82 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	64000.00 lb
			<u>Total Volume: 47.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.82 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	3410.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	53.00 ft				
Tool Length:	76.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3388.00	
Shut In Tool	5.00			3393.00	
Hydraulic tool	5.00			3398.00	
Safety Joint	3.00			3401.00	
Packer	5.00			3406.00	23.00 Bottom Of Top Packer
Packer	4.00			3410.00	
Stubb	1.00			3411.00	
Perforations	5.00			3416.00	
Change Over Sub	1.00			3417.00	
Recorder	0.00	8844	Inside	3417.00	
Recorder	0.00	8372	Outside	3417.00	
Drill Pipe	32.00			3449.00	
Change Over Sub	1.00			3450.00	
Perforations	10.00			3460.00	
Bullnose	3.00			3463.00	53.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

Job Ticket: 51473

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2013.02.08 @ 18:23:05

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w/oil spks in tool	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

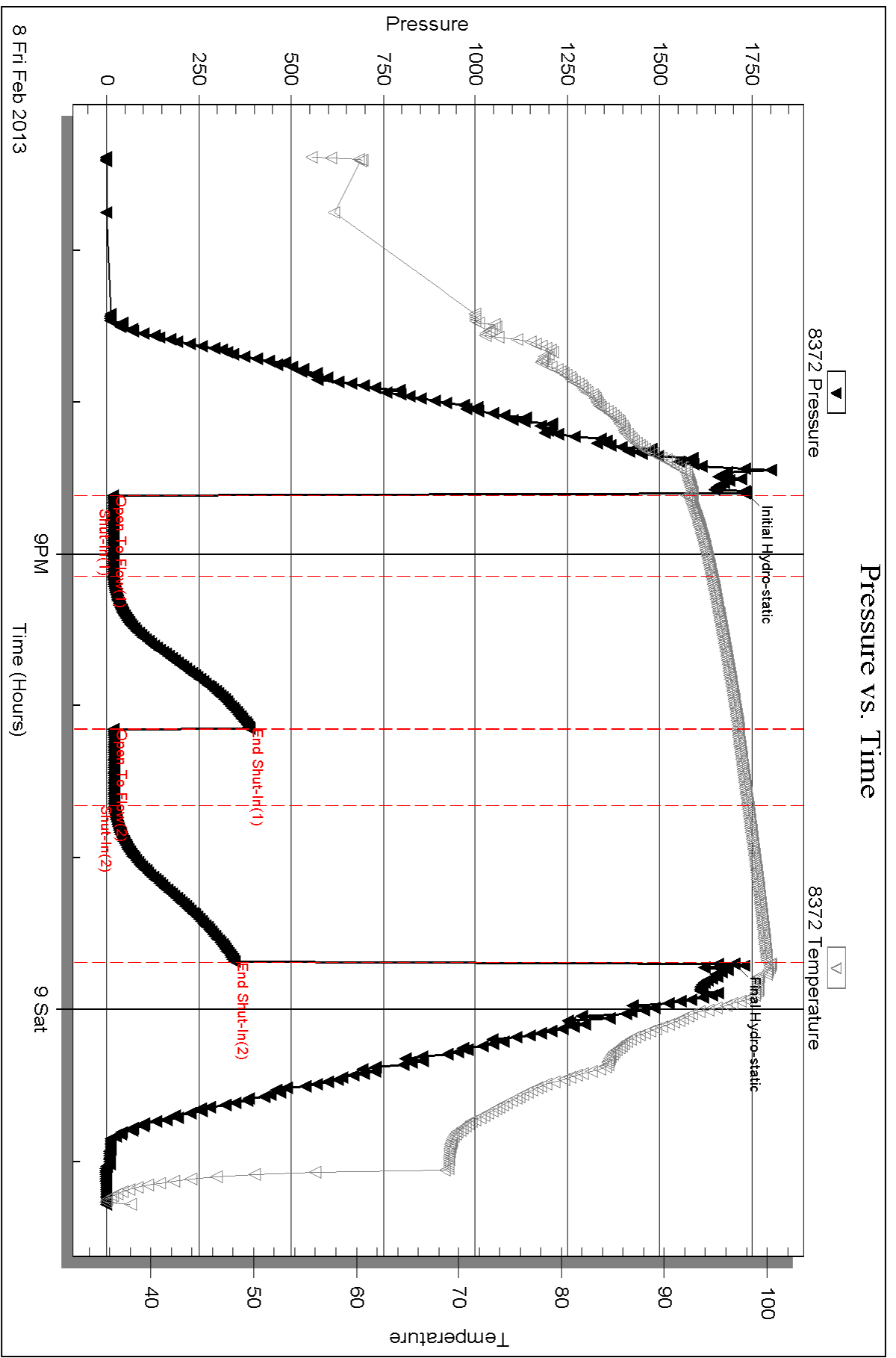
Recovery Comments:

Serial #: 8372

Outside Murfin Drilling Co inc.

28-14s-18w Ellis KS

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 51473

Printed: 2013.02.19 @ 09:21:24

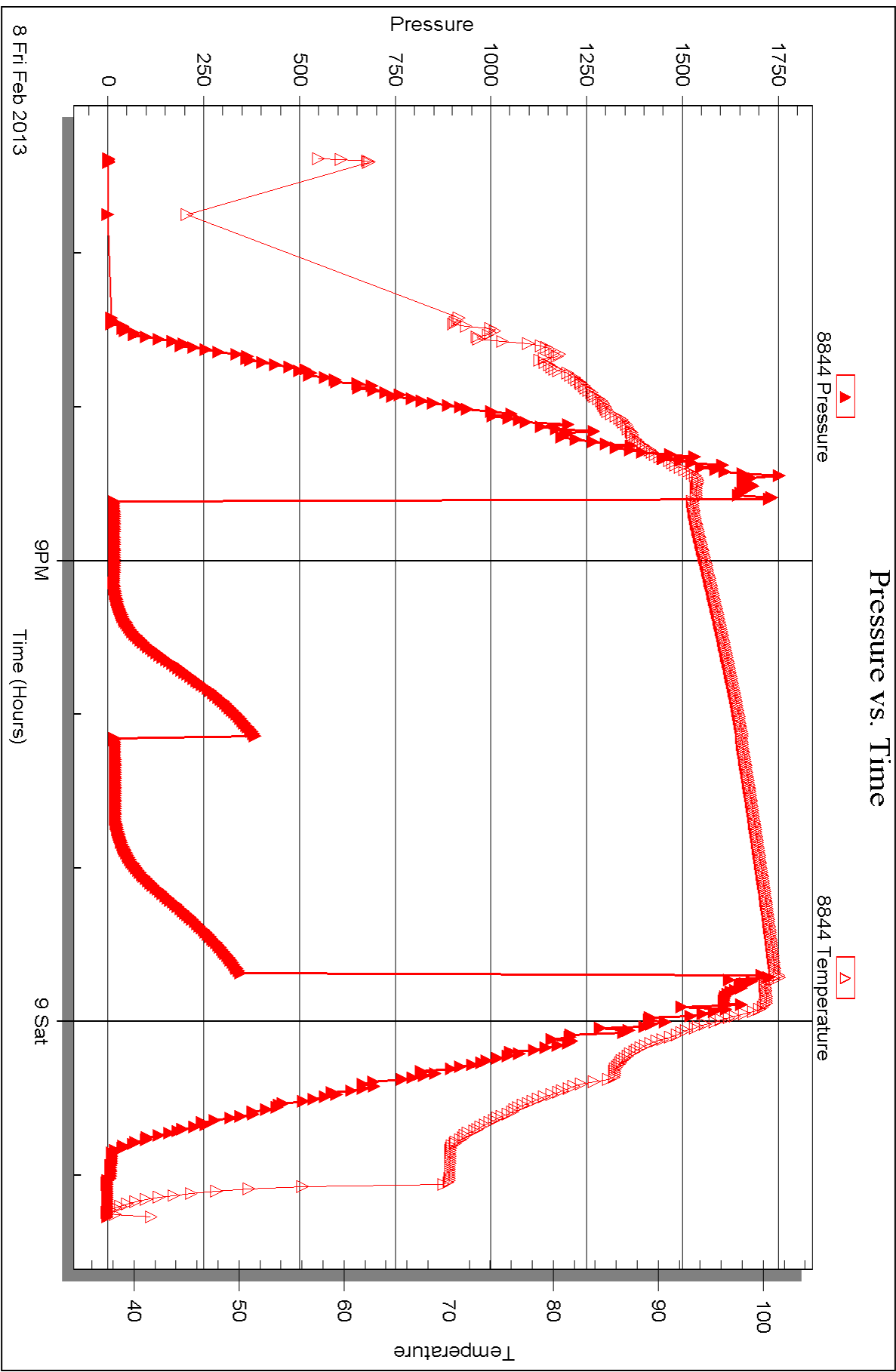
Serial #: 8844

Inside

Murfin Drilling Co Inc.

28-14s-18w Ellis KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co inc.**

250 N Water STE 300
Wichita KS 67202

ATTN: Paul Gunzelman

28-14s-18w Ellis,KS

Kraus-Stecklein Unit #1-28

Start Date: 2013.02.09 @ 15:58:05

End Date: 2013.02.09 @ 22:40:29

Job Ticket #: 51474 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.19 @ 09:20:40

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

28-14s-18w Ellis,KS

DST # 3

LKC "H-K"

2013.02.09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

ATTN: Paul Gunzelman

Job Ticket: 51474

DST#: 3

Test Start: 2013.02.09 @ 15:58:05

GENERAL INFORMATION:

Formation: **LKC"H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:44:50

Time Test Ended: 22:40:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 3496.00 ft (KB) To 3588.00 ft (KB) (TVD)

Reference Elevations: 2081.00 ft (KB)

Total Depth: 3588.00 ft (KB) (TVD)

2076.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press @RunDepth: 47.54 psig @ 3503.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.09

End Date:

2013.02.09

Last Calib.:

2013.02.09

Start Time:

15:58:05

End Time:

22:40:29

Time On Btm:

2013.02.09 @ 17:43:30

Time Off Btm:

2013.02.09 @ 20:47:59

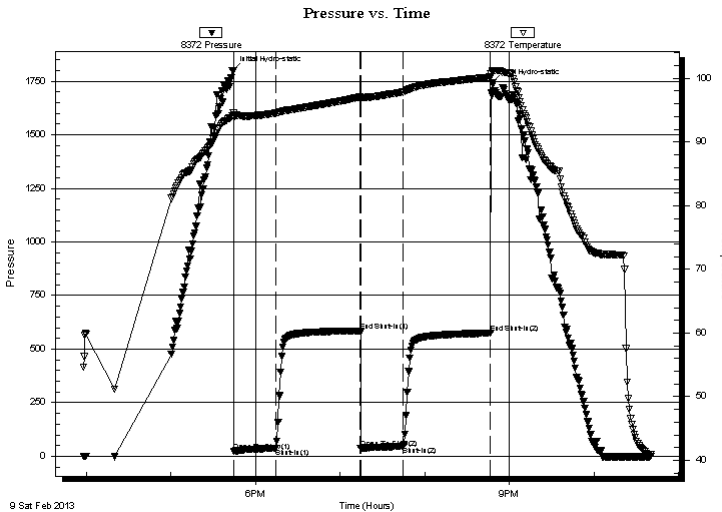
TEST COMMENT: IF:(30min) 1" blow in 5 min. 2" blow in 13 min. 3" in 23 min. built to 3.25"

ISl:(60min) No Return

FF:(30min) 1" in 9 min. built to 1.5"

FSl:(60min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1798.64	94.10	Initial Hydro-static
2	23.64	93.93	Open To Flow (1)
31	37.43	94.56	Shut-In(1)
91	585.68	97.10	End Shut-In(1)
91	38.09	96.78	Open To Flow (2)
122	47.54	97.87	Shut-In(2)
183	574.53	100.20	End Shut-In(2)
185	1740.60	101.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud w / oil spks in tool	0.66

* 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 inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

Job Ticket: 51474

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2013.02.09 @ 15:58:05

Tool Information

Drill Pipe:	Length: 3456.00 ft	Diameter: 3.80 inches	Volume: 48.48 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 27.82 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 48.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.82 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3496.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	115.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3474.00	
Shut In Tool	5.00			3479.00	
Hydraulic tool	5.00			3484.00	
Safety Joint	3.00			3487.00	
Packer	5.00			3492.00	23.00 Bottom Of Top Packer
Packer	4.00			3496.00	
Stubb	1.00			3497.00	
Perforations	5.00			3502.00	
Change Over Sub	1.00			3503.00	
Recorder	0.00	8844	Inside	3503.00	
Recorder	0.00	8372	Outside	3503.00	
Drill Pipe	63.00			3566.00	
Change Over Sub	1.00			3567.00	
Perforations	18.00			3585.00	
Bullnose	3.00			3588.00	92.00 Bottom Packers & Anchor

Total Tool Length: 115.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

Job Ticket: 51474

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2013.02.09 @ 15:58:05

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Mud w / oil spks in tool	0.658

Total Length: 65.00 ft Total Volume: 0.658 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

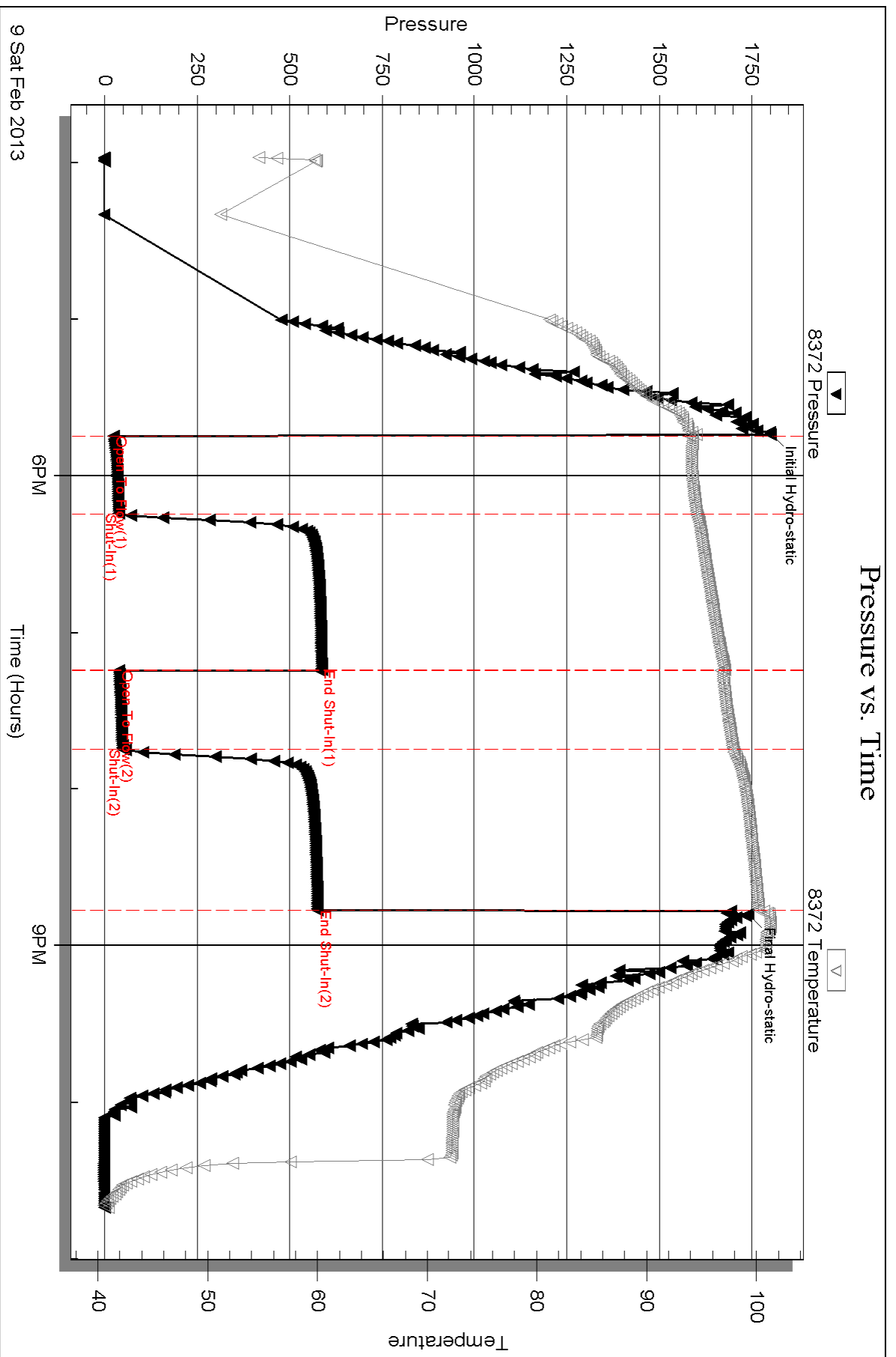
Recovery Comments:

Serial #: 8372

Outside Murfin Drilling Co inc.

28-14s-18w Ellis KS

DST Test Number: 3



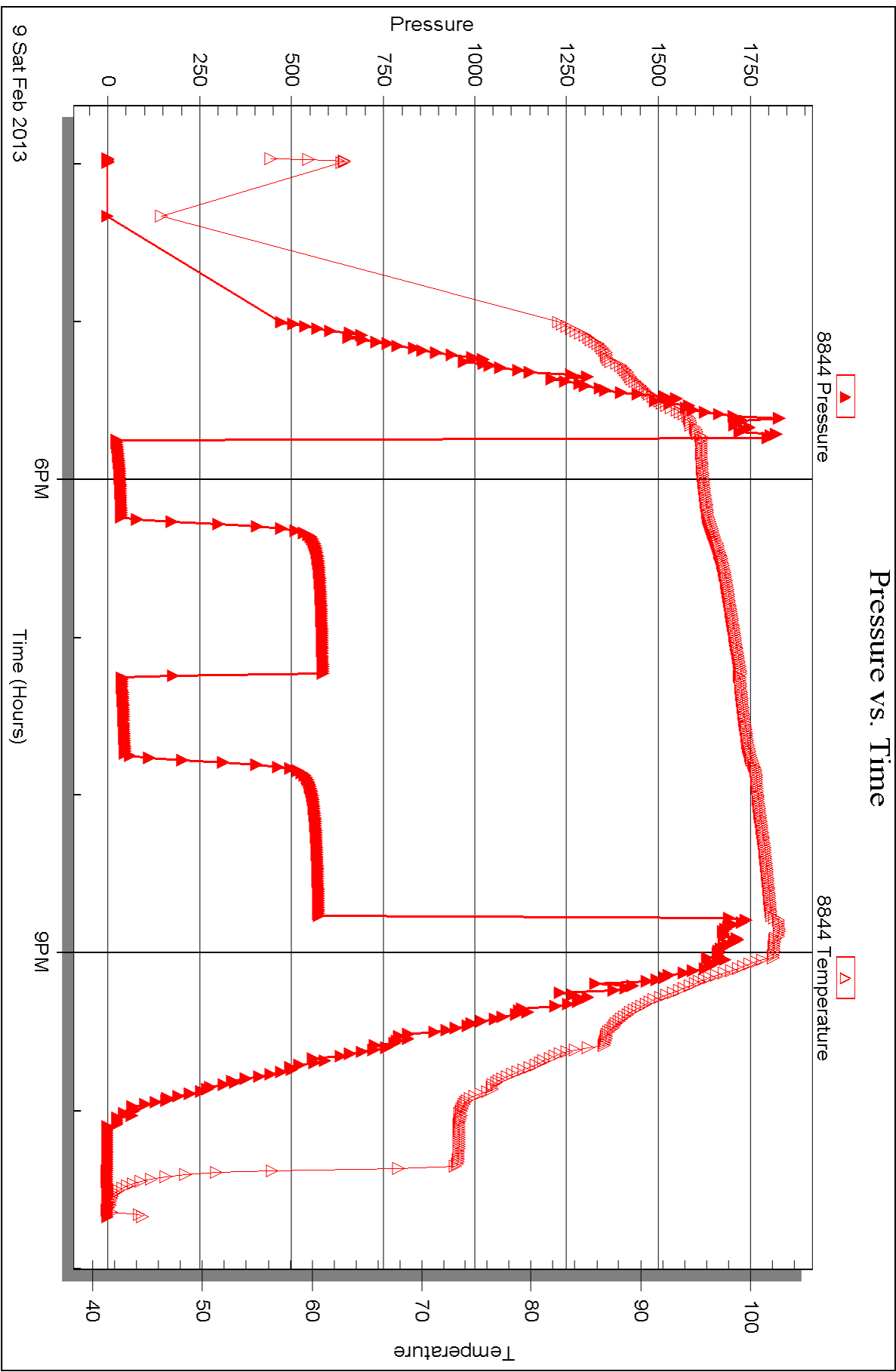
Serial #: 8844

Inside

Murfin Drilling Co inc.

28-14s-18w Ellis KS

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co inc.**

250 N Water STE 300
Wichita KS 67202

ATTN: Paul Gunzelman

28-14s-18w Ellis,KS

Kraus-Stecklein Unit #1-28

Start Date: 2013.02.10 @ 11:00:05

End Date: 2013.02.10 @ 17:21:20

Job Ticket #: 51475 DST #: 4

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

Printed: 2013.02.19 @ 09:19:58

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

28-14s-18w Ellis,KS

DST # 4

Arbuckle

2013.02.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

Job Ticket: 51475

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2013.02.10 @ 11:00:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:44:50

Time Test Ended: 17:21:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 3649.00 ft (KB) To 3694.00 ft (KB) (TVD)

Reference Elevations: 2081.00 ft (KB)

Total Depth: 3694.00 ft (KB) (TVD)

2076.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press @RunDepth: 35.93 psig @ 3656.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.10

End Date:

2013.02.10

Last Calib.:

2013.02.10

Start Time:

11:00:05

End Time:

17:21:20

Time On Btm:

2013.02.10 @ 12:44:00

Time Off Btm:

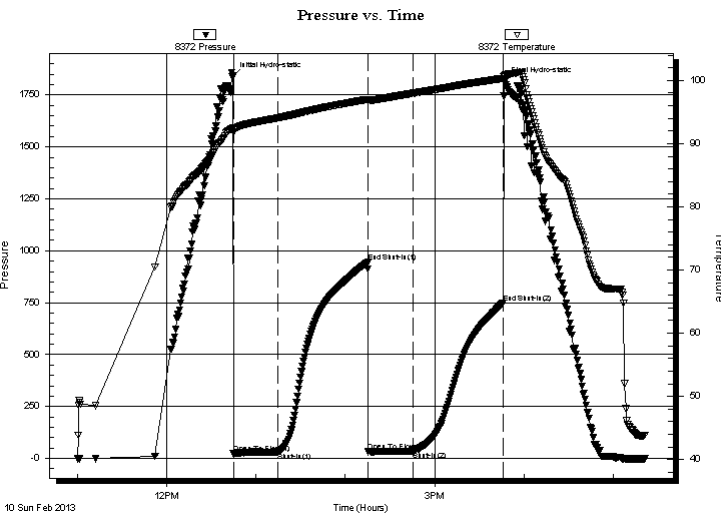
2013.02.10 @ 15:46:59

TEST COMMENT: IF:(30min) Weak 3/4" blow . Decreased to surface blow .

ISl:(60min) No Return

FF:(30min) Very weak surface blow

FSl:(60min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1837.03	92.36	Initial Hydro-static
1	22.77	91.70	Open To Flow (1)
31	31.89	94.08	Shut-In(1)
91	943.99	97.00	End Shut-In(1)
92	33.91	96.76	Open To Flow (2)
122	35.93	97.96	Shut-In(2)
182	748.99	100.31	End Shut-In(2)
183	1814.58	100.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	HOCM o=25% m=75%	0.17
10.00	CO o=100%	0.14

* 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 inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

Job Ticket: 51475

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2013.02.10 @ 11:00:05

Tool Information

Drill Pipe:	Length: 3614.00 ft	Diameter: 3.80 inches	Volume: 50.69 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 27.82 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 50.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.82 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3649.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3627.00	
Shut In Tool	5.00			3632.00	
Hydraulic tool	5.00			3637.00	
Safety Joint	3.00			3640.00	
Packer	5.00			3645.00	23.00 Bottom Of Top Packer
Packer	4.00			3649.00	
Stubb	1.00			3650.00	
Perforations	5.00			3655.00	
Change Over Sub	1.00			3656.00	
Recorder	0.00	8844	Inside	3656.00	
Recorder	0.00	8372	Outside	3656.00	
Drill Pipe	32.00			3688.00	
Change Over Sub	1.00			3689.00	
Perforations	2.00			3691.00	
Bullnose	3.00			3694.00	45.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

Job Ticket: 51475

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2013.02.10 @ 11:00:05

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	HOCM o=25% m=75%	0.167
10.00	CO o=100%	0.140

Total Length: 40.00 ft Total Volume: 0.307 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

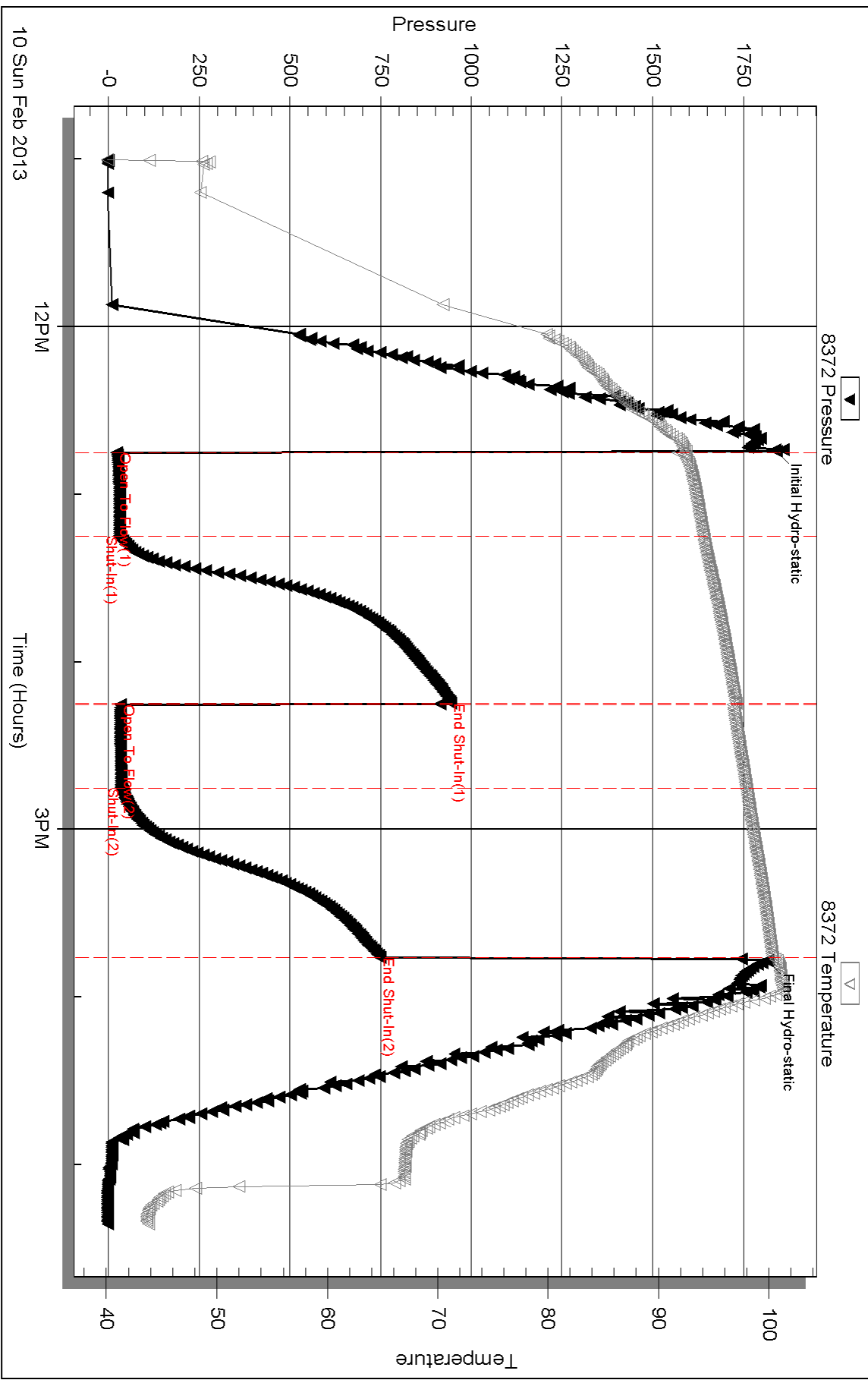
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



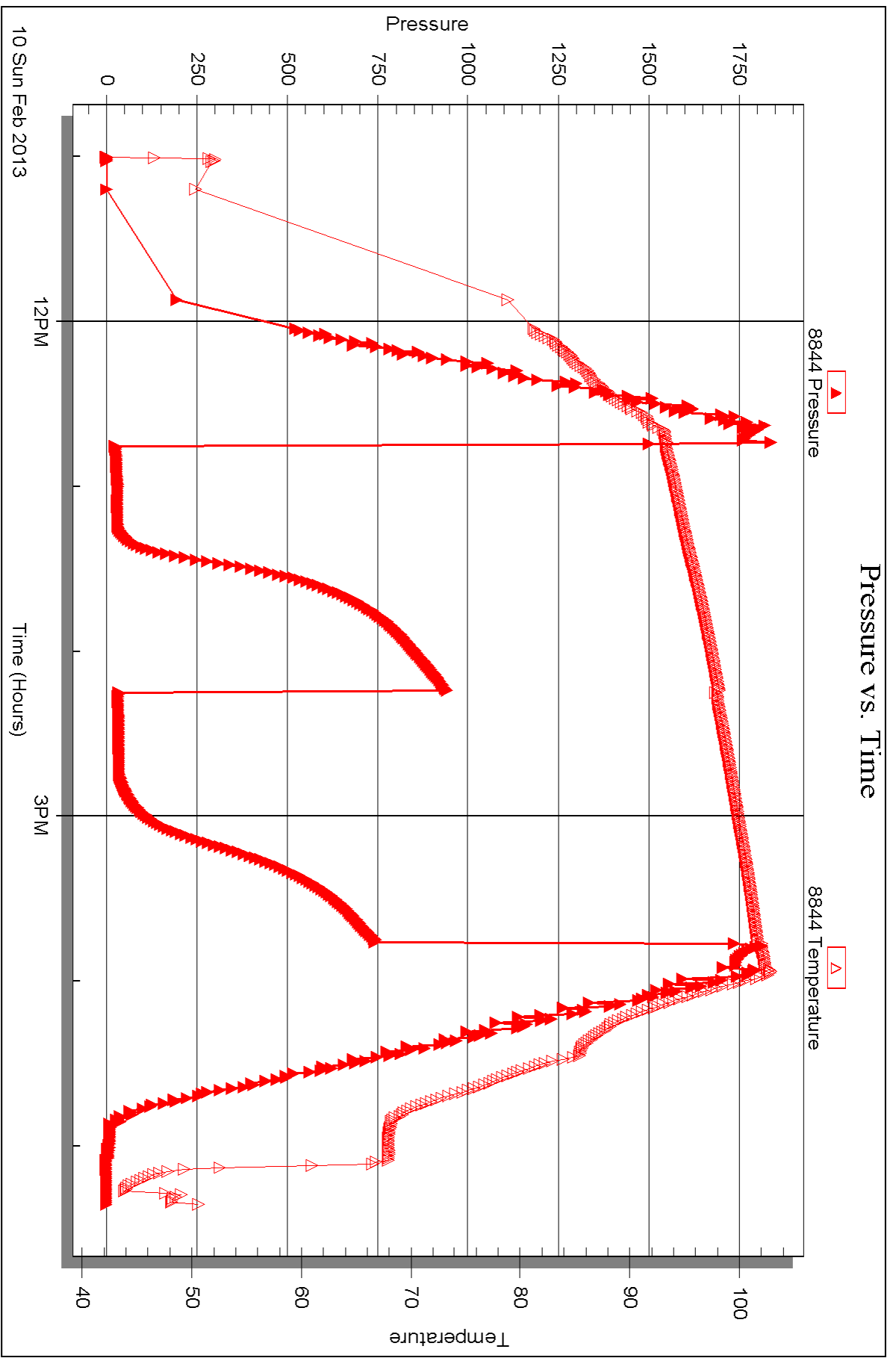
Serial #: 8844

Inside

Murfin Drilling Co inc.

28-14s-18w Ellis KS

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 51475

Printed: 2013.02.19 @ 09:20:02



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co inc.**

250 N Water STE 300
Wichita KS 67202

ATTN: Paul Gunzelman

28-14s-18w Ellis,KS

Kraus-Stecklein Unit #1-28

Start Date: 2013.02.10 @ 22:48:00

End Date: 2013.02.11 @ 06:14:09

Job Ticket #: 51587 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.19 @ 09:24:47

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

28-14s-18w Ellis,KS

DST # 5

Arbuckle

2013.02.10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

Job Ticket: 51587

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2013.02.10 @ 22:48:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:18:30

Time Test Ended: 06:14:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 39

Interval: 3694.00 ft (KB) To 3704.00 ft (KB) (TVD)

Reference Elevations: 2081.00 ft (KB)

Total Depth: 3704.00 ft (KB) (TVD)

2076.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8844

Inside

Press @ RunDepth: 36.36 psig @ 3701.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.10

End Date:

2013.02.11

Last Calib.: 2013.02.11

Start Time: 22:48:05

End Time:

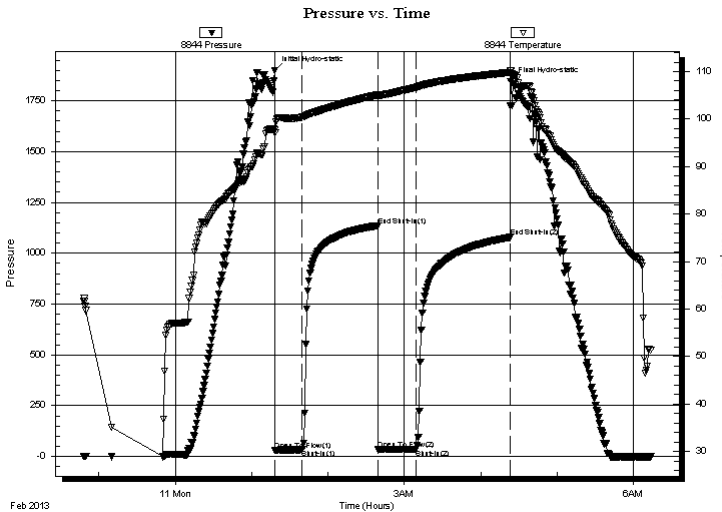
06:14:10

Time On Btm: 2013.02.11 @ 01:18:20

Time Off Btm: 2013.02.11 @ 04:23:39

TEST COMMENT: 20 - IF- 1 1/4" blow .
60 - IS- No blow back.
30 - FF- 1/2" blow .
60 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1899.32	97.66	Initial Hydro-static
1	30.64	97.13	Open To Flow (1)
22	33.54	100.44	Shut-In(1)
81	1135.33	105.09	End Shut-In(1)
81	35.33	104.70	Open To Flow (2)
112	36.36	106.66	Shut-In(2)
185	1078.18	109.81	End Shut-In(2)
186	1845.85	110.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud, with spots of oil., 100%M	0.46

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 Co inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

Job Ticket: 51587

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2013.02.10 @ 22:48:00

Tool Information

Drill Pipe:	Length: 3676.00 ft	Diameter: 3.80 inches	Volume: 51.56 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 27.00 ft	Diameter: 2.25 inches	Volume: 0.13 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 51.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3694.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3672.00	
Shut In Tool	5.00			3677.00	
Hydraulic tool	5.00			3682.00	
Safety Joint	3.00			3685.00	
Packer	5.00			3690.00	23.00 Bottom Of Top Packer
Packer	4.00			3694.00	
Stubb	1.00			3695.00	
Perforations	6.00			3701.00	
Recorder	0.00	8844	Inside	3701.00	
Recorder	0.00	8372	Outside	3701.00	
Bullnose	3.00			3704.00	10.00 Bottom Packers & Anchor

Total Tool Length: 33.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

Job Ticket: 51587

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2013.02.10 @ 22:48:00

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: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
50.00	Mud, w ith spots of oil., 100%M	0.455

Total Length: 50.00 ft Total Volume: 0.455 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8844

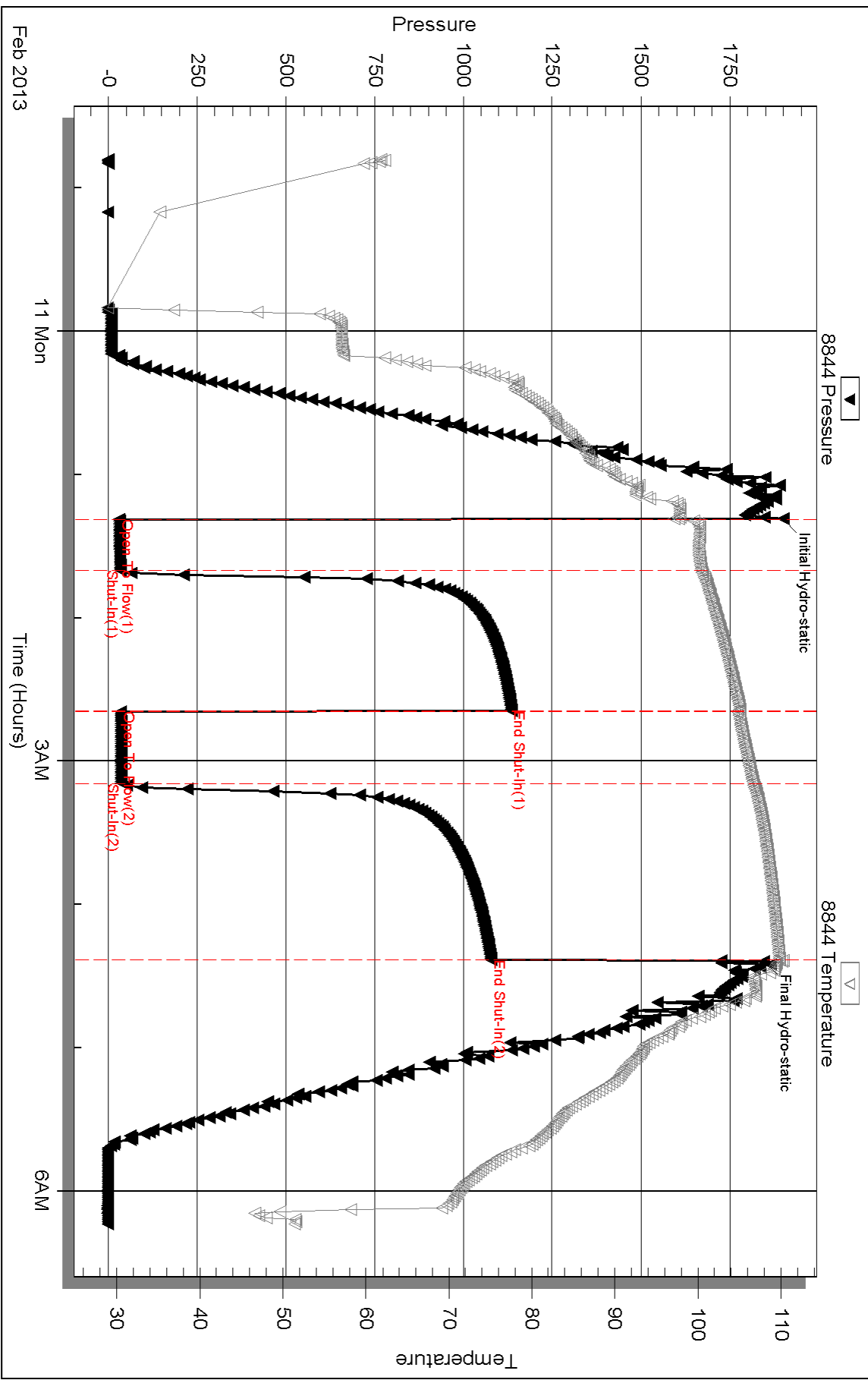
Inside

Murfin Drilling Co inc.

28-14s-18w Ellis KS

DST Test Number: 5

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 51587

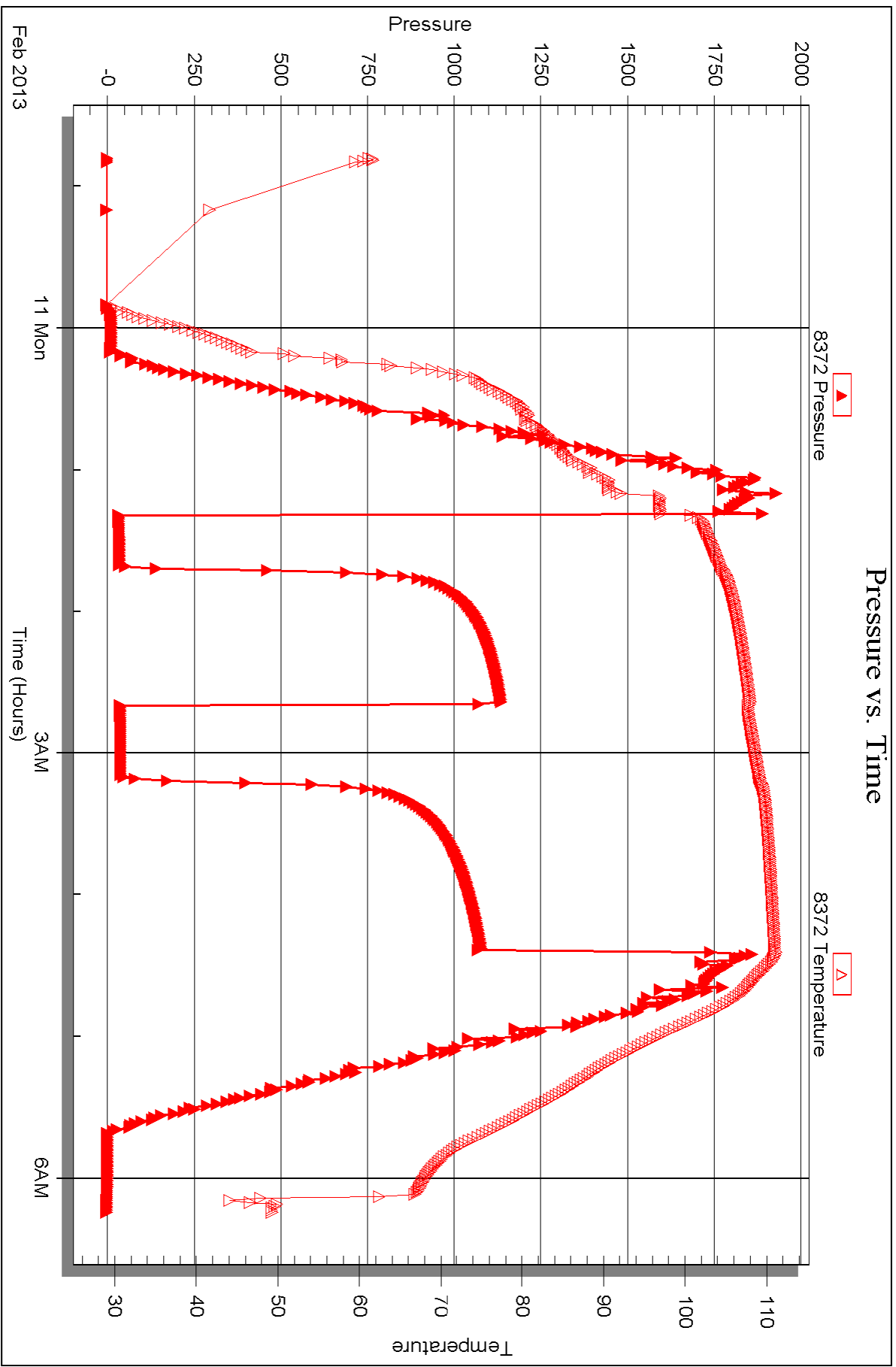
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Serial #: 8372

Outside Murfin Drilling Co inc.

28-14s-18w Ellis KS

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co inc.**

250 N Water STE 300
Wichita KS 67202

ATTN: Paul Gunzelman

28-14s-18w Ellis,KS

Kraus-Stecklein Unit #1-28

Start Date: 2013.02.11 @ 10:52:00

End Date: 2013.02.11 @ 17:45:30

Job Ticket #: 51588 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.19 @ 09:19:15

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

28-14s-18w Ellis,KS

DST # 6

Arbuckle

2013.02.11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

Job Ticket: 51588

DST#: 6

ATTN: Paul Gunzelman

Test Start: 2013.02.11 @ 10:52:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:54:50

Time Test Ended: 17:45:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 39

Interval: 3704.00 ft (KB) To 3714.00 ft (KB) (TVD)

Reference Elevations: 2081.00 ft (KB)

Total Depth: 3714.00 ft (KB) (TVD)

2076.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8844 Inside

Press @ RunDepth: 153.13 psig @ 3705.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.11

End Date:

2013.02.11

Last Calib.:

2013.02.11

Start Time: 10:52:05

End Time:

17:45:29

Time On Btm:

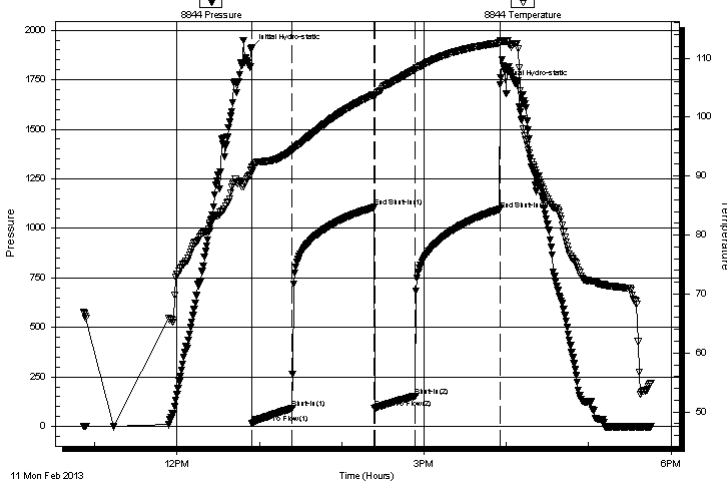
2013.02.11 @ 12:54:40

Time Off Btm:

2013.02.11 @ 15:55:30

TEST COMMENT: 30 - IF- B.O.B. in 15 Minutes.
60 - IS- Weak return. Died in 17 Minutes.
30 - FF- B.O.B. in 18 Minutes
60 - FS- Weak return fading in and out.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1909.35	91.61	Initial Hydro-static
1	16.89	90.94	Open To Flow (1)
30	90.09	94.35	Shut-In(1)
89	1105.89	103.82	End Shut-In(1)
90	92.73	103.50	Open To Flow (2)
119	153.13	108.10	Shut-In(2)
181	1094.88	112.60	End Shut-In(2)
181	1724.42	112.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	MW, 5%M, 95%W	3.23

* 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 inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

Job Ticket: 51588

DST#: 6

ATTN: Paul Gunzelman

Test Start: 2013.02.11 @ 10:52:00

Tool Information

Drill Pipe:	Length: 3676.00 ft	Diameter: 3.80 inches	Volume: 51.56 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 27.00 ft	Diameter: 2.25 inches	Volume: 0.13 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 51.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	49000.00 lb
Depth to Top Packer:	3704.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	33.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3682.00	
Shut In Tool	5.00			3687.00	
Hydraulic tool	5.00			3692.00	
Safety Joint	3.00			3695.00	
Packer	5.00			3700.00	23.00 Bottom Of Top Packer
Packer	4.00			3704.00	
Stubb	1.00			3705.00	
Recorder	0.00	8844	Inside	3705.00	
Recorder	0.00	8372	Outside	3705.00	
Perforations	6.00			3711.00	
Bullnose	3.00			3714.00	10.00 Bottom Packers & Anchor

Total Tool Length: 33.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co inc.

Kraus-Stecklein Unit #1-28

250 N Water STE 300
Wichita KS 67202

28-14s-18w Ellis,KS

Job Ticket: 51588

DST#: 6

ATTN: Paul Gunzelman

Test Start: 2013.02.11 @ 10:52:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	MW, 5%M, 95%W	3.233

Total Length: 248.00 ft Total Volume: 3.233 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

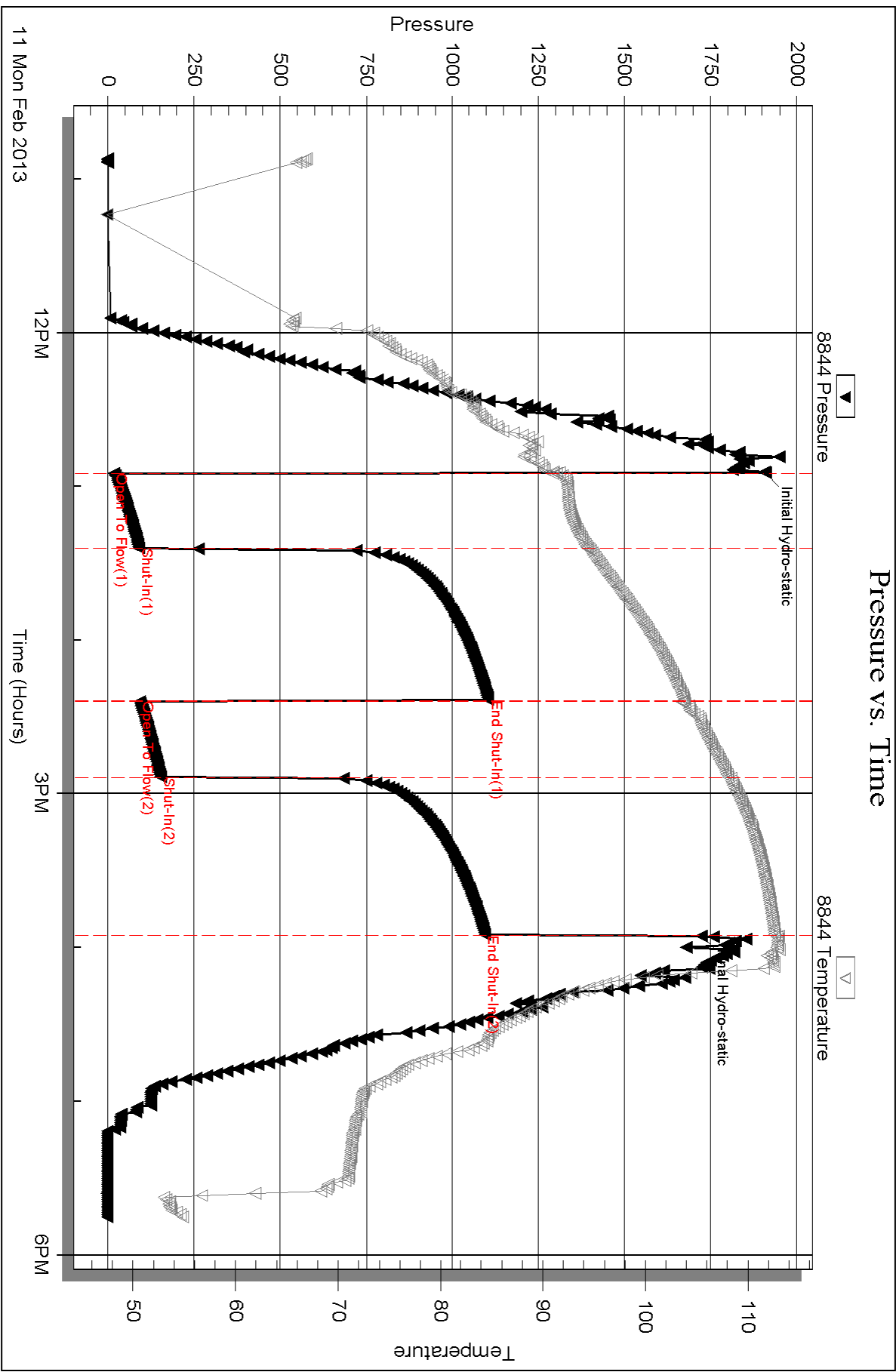
Serial #: 8844

Inside

Murfin Drilling Co Inc.

28-14s-18w Ellis KS

DST Test Number: 6

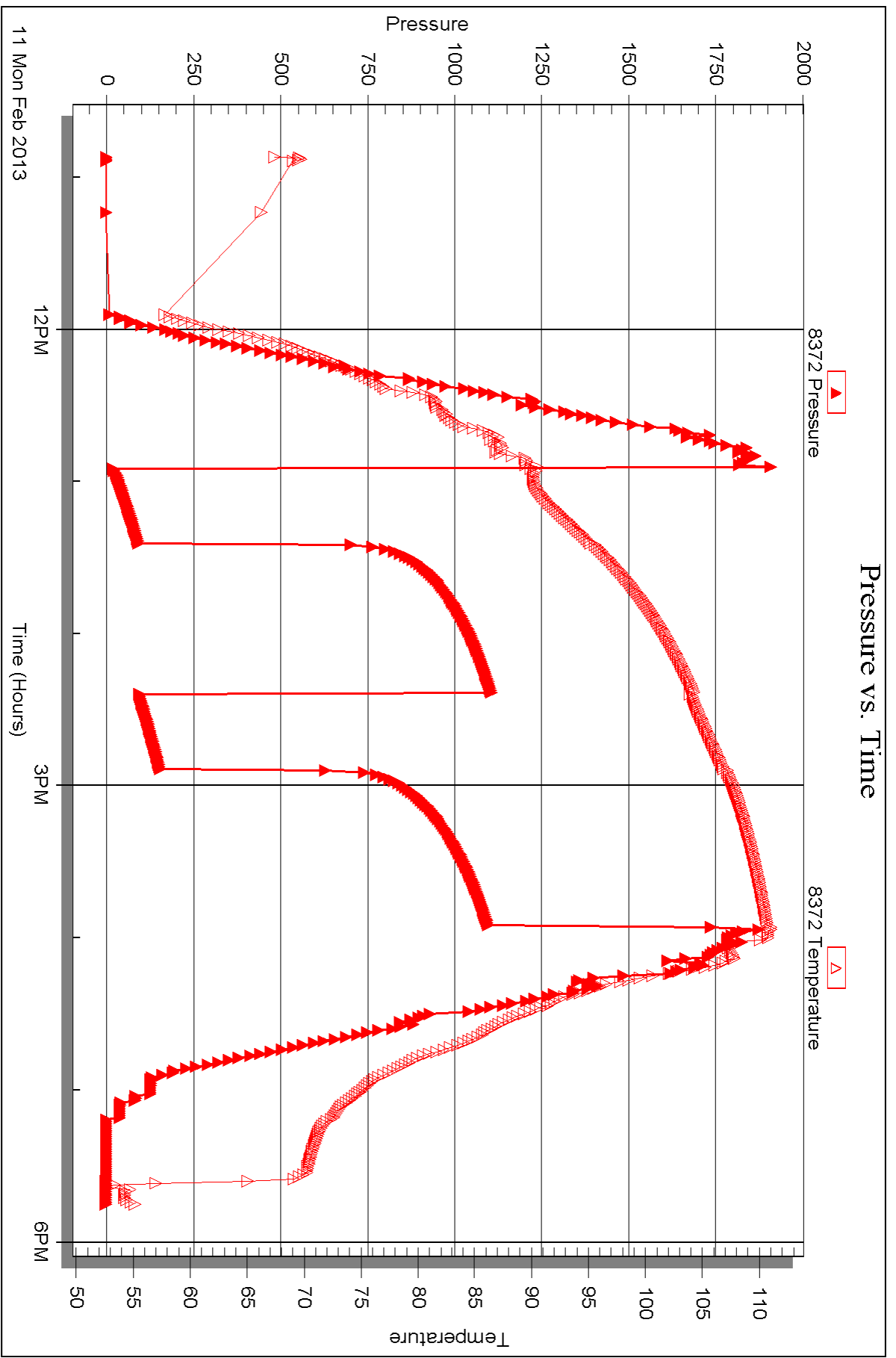


Serial #: 8372

Outside Murfin Drilling Co inc.

28-14s-18w Ellis, KS

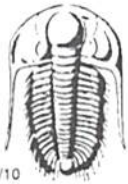
DST Test Number: 6



Triobite Testing, Inc

Ref. No: 51588

Printed: 2013.02.19 @ 09:19:18



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51472

Well Name & No. Keaus-Stecklein Unit 1-28 Test No. 1 Date 2-8-13
 Company Murfin Drilling Co. Inc Elevation 2081 KB 2076 GL
 Address 250 N. Water STE 300 Wichita Ks. 67202
 Co. Rep / Geo. Paul Gunzelman Rig Murfin 16
 Location: Sec. 28 Twp. 14s Rge. 18W Co. Ellis State Ks.

Interval Tested 3324-3412 Zone Tested Top-LKC "A-B"
 Anchor Length 88' Drill Pipe Run 3298 Mud Wt. 8.8
 Top Packer Depth 3319 Drill Collars Run 27.82 Vis 56
 Bottom Packer Depth 3324 Wt. Pipe Run 0 WL 7.6
 Total Depth 3412 Chlorides 5700 ppm System LCM 0

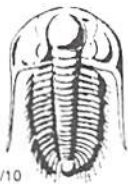
Blow Description IF: 1/2" blow in 5min. & Throughout.
ISI: NO Return
FF: Very Weak surface blow. died in 6min
FSI: NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud w/oil spks in Tool</u>		<u>Tr</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~~ 10' BHT 97° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1677 Test ← 1150 T-On Location 01:42
 (B) First Initial Flow 15 Jars _____ T-Started 03:31
 (C) First Final Flow 22 Safety Joint ← 75 T-Open 05:39
 (D) Initial Shut-In 771 Circ Sub _____ T-Pulled 05:39
 (E) Second Initial Flow 23 Hourly Standby _____ T-Out 10:12
 (F) Second Final Flow 28 Mileage ← 16RT 24.80 Comments _____
 (G) Final Shut-In 662 Sampler _____
 (H) Final Hydrostatic 1611 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1249.80
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1249.80

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. 51473

Well Name & No. KRAUS - STECKLEIN unit 1-28 Test No. 2 Date 2-8-13
 Company MURFIN DRILLING CO INC Elevation 2081 KB 2076 GL
 Address 250 N WATER STE 300 WICHITA KS. 67202
 Co. Rep / Geo. PAUL GUNZELMAN Rig MURFIN 16
 Location: Sec. 28 Twp. 14S Rge. 18W Co. ELLIS State Ks.

Interval Tested 3410 - 3463 Zone Tested LKC"D-F"
 Anchor Length 53' Drill Pipe Run 3390 Mud Wt. 9.1
 Top Packer Depth 3405 Drill Collars Run 27.82 Vis 52
 Bottom Packer Depth 3410 Wt. Pipe Run 0 WL 7.2
 Total Depth 3463 Chlorides 7800 ppm System LCM 0

Blow Description FF: Weak surface blow
ISI: NO RETURN
FF: Weak surface blow, died in 8 min.
FSD: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud w/ oil spks into tool</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

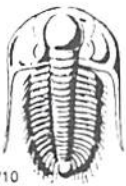
Rec Total 10' BHT 99° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1733 Test ← 1150 T-On Location 18:09
 (B) First Initial Flow 16 Jars _____ T-Started 18:23
 (C) First Final Flow 17 Safety Joint ← 75 T-Open 20:39
 (D) Initial Shut-In 387 Circ Sub _____ T-Pulled 23:39
 (E) Second Initial Flow 19 Hourly Standby _____ T-Out 01:17
 (F) Second Final Flow 20 Mileage 16.4 ← 24.80 Comments _____
 (G) Final Shut-In 347 Sampler _____
 (H) Final Hydrostatic 1701 Straddle _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 60 Ruined Packer _____
 Final Flow 30 Extra Packer _____
 Final Shut-In 60 Extra Recorder _____
 Sub Total 0
 Total 1249.80
 Sub Total 1249.80 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. 51474

4/10

Well Name & No. KRAUS-STECKLEIN unit 1-28 Test No. 3 Date 2-9-13
 Company MURFIN Delg. Co. inc Elevation 2081 KB 2076 GL
 Address 250 N Water STE 300 Wichita Ks. 67202
 Co. Rep / Geo. Paul GUNZELMAN Rig MURFIN 16
 Location: Sec. 28 Twp. 14S Rge. 18W Co. Ellis State Ks.

Interval Tested 3496-3588 Zone Tested LKC "H-K"
 Anchor Length 92' Drill Pipe Run 3456 Mud Wt. 9.2
 Top Packer Depth ~~3588~~ 3491 Drill Collars Run 27.82 Vis 55
 Bottom Packer Depth 3496 Wt. Pipe Run 0 WL 8.0
 Total Depth 3588 Chlorides 11,100 ppm System LCM 0

Blow Description IF: 1" blow in 5 min. 2" in 13 min. 3" in 23 min. built to 3 1/4"
ISI: NO Return
FF: 1" in 9 min. built to 1 1/2"
FSL: NO Return

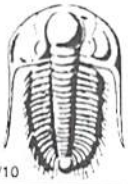
Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>Mud w/ oil spks in tool</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 65 BHT 100° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1798 Test ← 1150 T-On Location 15:20
 (B) First Initial Flow 23 Jars _____ T-Started 15:58
 (C) First Final Flow 37 Safety Joint ← 75 T-Open 17:45
 (D) Initial Shut-In 585 Circ Sub _____ T-Pulled 20:45
 (E) Second Initial Flow 38 Hourly Standby _____ T-Out 22:42
 (F) Second Final Flow 47 Mileage ← 16RT 24.80 Comments _____
 (G) Final Shut-In 574 Sampler _____
 (H) Final Hydrostatic 1740 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 30 ~~60~~
 Final Shut-In 60 ~~90~~
 Sub Total 1249.80
 Total 1249.80
 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. 51475

Well Name & No. Kraus - Stecklein unit 1-28 Test No. 4 Date 2-10-13
 Company Murfin Drilg. Co. Inc Elevation 2081 KB 2076 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Paul Gunzelman Rig Murfin 16
 Location: Sec. 28 Twp. 14s Rge. 18W Co. Ellis State Ks.

Interval Tested 3649-3694 Zone Tested Arbuckle
 Anchor Length 45 Drill Pipe Run 3614 Mud Wt. 9.2
 Top Packer Depth 3644 Drill Collars Run 27.82 Vis 57
 Bottom Packer Depth 3649 Wt. Pipe Run 0 WL 7.6
 Total Depth 3694 Chlorides 10,900 ppm System LCM 6#
 Blow Description IF: Weak 3/4" blow decreased to surface blow
ISI: No Return
FF: Very Weak surface blow
FSI: No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>CO</u>		<u>100</u>		
<u>30</u>	<u>HOCm</u>		<u>20</u>		<u>80</u>

Rec Total 40' BHT 100° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1837</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>10:42</u>
(B) First Initial Flow <u>22</u>	<input type="checkbox"/> Jars _____	T-Started <u>11:00</u>
(C) First Final Flow <u>31</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>12:45</u>
(D) Initial Shut-In <u>943</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>15:45</u>
(E) Second Initial Flow <u>33</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>17:21</u>
(F) Second Final Flow <u>35</u>	<input checked="" type="checkbox"/> Mileage <u>4.6</u> 24.80	Comments _____
(G) Final Shut-In <u>748</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1814</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1249.80</u>
Final Shut-In <u>16</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1249.80</u>	

Approved By _____ Our Representative Orby Co

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. 51587

Well Name & No. Kraus-Stecklein unit 1-28 Test No. 5 Date 2-10-13
 Company Murfin Drilling Company Inc. Elevation 2081 KB 2076 GL
 Address 250 N. Wated STE 300, Wichita KS, 67202
 Co. Rep / Geo. Paul Gunzelman Rig Murfin 16
 Location: Sec. 28 Twp. 14s Rge. 18w Co. Ellis State KS

Interval Tested 3694 - 3704 Zone Tested Arbuckle
 Anchor Length 10' Drill Pipe Run 3676 Mud Wt. 9.2
 Top Packer Depth 3689 Drill Collars Run 27.82 Vis 57
 Bottom Packer Depth 3694 Wt. Pipe Run — WL 7.6
 Total Depth 3704 Chlorides 10,900 ppm System LCM 6#

Blow Description IF- 1 1/4" blow
ISF- No blow back.
FF- 1/2" blow
FSF- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>50'</u>	<u>Mud with spots of oil</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

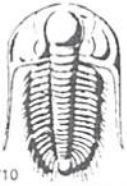
Rec Total 50' BHT 109° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>1899</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>9:58pm</u>
(B) First Initial Flow <u>30</u>	<input type="checkbox"/> Jars	T-Started <u>10:48pm</u>
(C) First Final Flow <u>33</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1:20am</u>
(D) Initial Shut-In <u>1135</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>4:10am</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>6:14am</u>
(F) Second Final Flow <u>36</u>	<input checked="" type="checkbox"/> Mileage <u>24.80</u>	Comments
(G) Final Shut-In <u>1678</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1845</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open ~~20~~ 20 Extra Packer Extra Copies
 Initial Shut-In 60 Extra Recorder Sub Total 0
 Final Flow 30 Day Standby Total 1249.80
 Final Shut-In 60 Accessibility MP/DST Disc't
 Sub Total 1249.80

Approved By _____ Our Representative Cody R...

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. 51588

Well Name & No. Krays-Stecklein unit 1-28 Test No. 6 Date 2-11-13
 Company Murfin Drilg Company Inc. Elevation 2081 KB 2076 GL
 Address 250 N. Watted STE 300, Wichita KS, 67202
 Co. Rep / Geo. Paul Gunzelman Rig Murfin 16
 Location: Sec. 28 Twp. 14s Rge. 18w Co. Ellis State KS

Interval Tested 3704-3714 Zone Tested Arbuckle
 Anchor Length 10' Drill Pipe Run 3676 Mud Wt. 9.2
 Top Packer Depth 3699 Drill Collars Run 27.82 Vis 57
 Bottom Packer Depth 3704 Wt. Pipe Run — WL 7.6
 Total Depth 3714 Chlorides 10,900 ppm System LCM 6#
 Blow Description IF - B.O.B. in 15 Minutes
ISI - Weak return. Died in 17 Minutes.
FF - B.O.B. in 18 Minutes
FSI - Weak return fading in & out.

Rec	Feet of	%gas	%oil	%water	%mud
<u>248</u>	<u>M W</u>		<u>95</u>	<u>5</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 248' BHT 112° Gravity — API RW .37 @ 55° F Chlorides 25,000 ppm

(A) Initial Hydrostatic <u>1909</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>10:25 am</u>
(B) First Initial Flow <u>16</u>	<input type="checkbox"/> Jars	T-Started <u>10:52 am</u>
(C) First Final Flow <u>90</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:55 pm</u>
(D) Initial Shut-In <u>1105</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>3:55 pm</u>
(E) Second Initial Flow <u>92</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>5:45 pm</u>
(F) Second Final Flow <u>153</u>	<input checked="" type="checkbox"/> Mileage <u>24.80</u>	Comments
(G) Final Shut-In <u>1094</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1724</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1249.80</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1249.80</u>	

Approved By _____ Our Representative Cody Bloodorn

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QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Acct. Prod. - Liz H.

Date: 2/6/2013
 Invoice # 6407
 P.O.#:
 Due Date: 3/8/2013
 Division: *Russell*

Invoice

Contact:
 Murfin Drilling Company
Address/Job Location:
 Murfin Drilling Company
 P.O. Box 288
 Russell Ks 67665

USED FOR Drilling
 APPROVED [Signature]

OPERATOR PAY MDC
Kraus
LEASE: Stecklein
unit 128

Reference:
 KRAUS-STECKLEIN 1-28

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	165	\$ 2,246.45	Yes				
Bulk Truck Matl-Material Service Charge	173	\$ 375.66	No				
Calcium Chloride	5	\$ 258.73	Yes				
Premium Gel (Bentonite)	3	\$ 53.03	Yes				
Pump Truck Mileage-Job to Nearest Camp	5	\$ 54.18	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	5	\$ 31.70	No				

Invoice Terms:

Net 30

	SubTotal:	\$ 4,011.13
	<i>Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:</i>	\$ (601.67)
	SubTotal for Taxable Items:	\$ 2,174.47
	SubTotal for Non-Taxable Items:	\$ 1,234.99
	Total:	\$ 3,409.46
	Tax:	\$ 136.99
	Amount Due:	\$ 3,546.45
	Applied Payments:	
	Balance Due:	\$ 3,546.45

6.30% Ellis County Sales Tax

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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[Signature]

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6407

Date	2-4-13	Sec.	28	Twp.	14	Range	18	County	ELLIS	State	KANSAS	On Location		Finish	6:15 PM
Lease								Well No.		Location					
KRAUS-STECKEFTN								# 1-28		HAYS STO MONTGOMERY - W TO 240 AVE - 1/2 S 1/4 INTC					
Contractor								Owner		To Quality Oilwell Cementing, Inc.					
MURFIN #16								MURFIN DRILLING		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job								Charge To		SURFACE					
Hole Size								T.D.		MURFIN DRILLING					
12 1/4"								218'		Street					
Csg. 8 5/8"								Depth		250 N WATER SUITE 300					
Tbg. Size								Depth		City		State			
								15'		WICHITA		KS, 67202			
Tool								The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered					
										165 Com - 3cc - 2 GEL					
Meas Line								Displace							
								13 BBLs							
EQUIPMENT								Common							
Pumptrk #15 No. Cementer								165							
Helper								POZ. MIX							
NICK															
Bulktrk #13 No. Driver								Gel.							
HEATH								3							
Bulktrk #14 No. Driver								Calcium							
CISCO								5							
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
								Handling							
								173							
CEMENT DID CIRCULATE!								Mileage							
								FLOAT EQUIPMENT							
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Surface							
								Mileage							
								5							
THANK YOU!								Tax							
Signature								Discount							
								Total Charge							

X Signature *Ag [Signature]*

Acct
Prod-LizH



QUALITY OILWELL CEMENTING, INC.
PO Box 32 - 740 West Wichita Ave, Russell KS 67665
Phone: 785-324-1041 fax: 785-483-1087
Email: cementing@ruratel.net

Date: 2/13/2013
Invoice # 6410
P.O.#:
Due Date: 3/15/2013
Division: Russell

Invoice

Contact:
Murfin Drilling Company
Address/Job Location:
Murfin Drilling Company
P.O. Box 288
Russell Ks 67665

OPERATOR PAY MDC
LEASE: Kraus
Stecklein
Unit
1-28
RN

USED FOR Drilling P+A
APPROVED [Signature]

Reference:
KRAUS-STECKLEIN 1-28
KRAUS
Description of Work:
PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,239.23	Yes				
Common-Class A	162	\$ 2,205.61	Yes				
Bulk Truck Matl-Material Service Charge	279	\$ 605.83	Yes				
POZ Mix-Standard	108	\$ 539.38	Yes				
Premium Gel (Bentonite)	9	\$ 159.08	Yes				
Flo Seal	67	\$ 145.49	Yes				
<u>Dry Hole Plug</u>	1	\$ 60.80	Yes				
Pump Truck Mileage-Job to Nearest Camp	5	\$ 54.18	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	5	\$ 31.70	Yes				

Invoice Terms:
Net 30

SubTotal: \$ 5,041.30
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (756.19)

SubTotal for Taxable Items: \$ 4,285.10
SubTotal for Non-Taxable Items: \$

Total: \$ 4,285.11
Tax: \$ 269.96
6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 4,555.07
Applied Payments:
Balance Due: \$ 4,555.07

Past Due Invoices are subject to a service charge (annual rate of 24%)
This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6410

Date	2-12-13	Sec.	28	Twp.	14	Range	18	County	ELLIS	State	KANSAS	On Location		Finish	2:00 pm
Lease								Well No.		Owner					
KRAILS-STECKLEIN								#1-28		MURFIN DRILLING					
Contractor										To Quality Oilwell Cementing, Inc.		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
M-D #116															
Type Job										Charge To					
P.T.A										MURFIN DRILLING					
Hole Size				T.D.				Street							
7 7/8"				3,790				250 WATER STE 300							
Csg.				Depth				City				State			
4 1/2"								WICHITA				KS, 67202			
Tbg. Size				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Tool				Depth				Cement Amount Ordered				270 40% - 4% GEL			
Cement Left in Csg.				Shoe Joint											
Meas Line								Displace		Common					
										162					
EQUIPMENT										Poz. Mix					
										108					
Pumptrk #15				No. Cementer				Gel.							
				Helper NICK				9							
Bulktrk #4				No. Driver				Calcium							
				Driver CLAYTON											
Bulktrk P/U				No. Driver				Hulls							
				Driver CISCO											
JOB SERVICES & REMARKS										Salt					
Remarks:															
Rat Hole				30 SKS				Flowseal				67 #			
Mouse Hole				15 SKS				Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
								Handling				279			
1st @ 31669				50 SKS				Mileage							
2nd @ 1,295				25 SKS				FLOAT EQUIPMENT							
3rd @ 625				100 SKS				Guide Shoe							
4th @ 270				40 SKS				Centralizer							
5th @ 40				10 SKS				Baskets							
RATHOLE				30 SKS				AFU Inserts							
MOUSEHOLE				15 SKS				Float Shoe				1 Dry Hole plug 8 1/2"			
				270 SKS				Latch Down							
THANK YOU!										Pumptrk Charge		plug			
										Mileage		5			
Signature								Ay				Tax			
												Discount			
												Total Charge			