



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1137026
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
-----------------------------------	-----------------	---

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: _____



1137026

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: Yes No

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

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

April 29, 2013

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

Re: ACO1
API 15-051-26441-00-00
Braun 1-36
SW/4 Sec.36-15S-19W
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 Braun #1-36 330' FSL 1500' FWL Sec. 36-T15S-R19W 1991' KB							Black Diamond Legleiter #3 NW SE SE Sec. 36-T15S-R19W 1961' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1177	+814	-16	1176	+815	-15	1131	+830
B/Anhydrite	1205	+786	-1	1216	+775	-12	1174	+787
Topeka	2960	-969	-3	2957	-966	Flat	2927	-966
Heebner	3232	-1241	-5	3226	-1235	+1	3197	-1236
Toronto	3252	-1261	-2	3246	-1255	+4	3220	-1259
Lansing	3277	-1286	-4	3276	-1285	-3	3243	-1282
Stark	3471	-1480	-3	3471	-1480	-3	3438	-1477
BKC	3520	-1529	-8	3515	-1524	-3	3482	-1521
Arbuckle	3562	-1571	+20	3548	-1557	+34	3552	-1591
RTD	3660						3573	
LTD				3658			3570	

Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Murfin Drilling Company Inc.**

LEASE **Braun #1-36**

FIELD **Wildcat**

LOCATION **330° F.S1 & 1500° W.L**

SEC. **36** TWP. **15 S** RGE. **19 W**

COUNTY **Ellis** STATE **Kansas**

CONTRACTOR **Murfin Drilling Rig #2**

SPUD **1/8/2013** COMP **1/13/2013**

RTD **3:60⁰** LTD **3:58⁰**

MUD UP **2715⁰** TYPE MUD **Chemical**

SAMPLES SAVED FROM **2855⁰ TO RTD**

DRILLING TIME KEPT FROM **2855⁰ TO RTD**

SAMPLES EXAMINED FROM **2855⁰ TO RTD**

GEOLOGICAL SUPERVISION FROM **3035⁰ TO RTD**

GEOLOGIST ON WELL **Robert D. Hendrix**

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anhydrite	1176 (+815)	1176 (+815)
Topoka	2958 (+967)	2960 (+969)
Heebner Sh.	3227 (-1236)	3232 (-1241)
Lansing	3276 (-1285)	3277 (-1286)
Stark Sh.	3470 (-1479)	3471 (-1480)
BKC	3514 (-1523)	3520 (-1529)
Arbuckle	3549 (-1558)	3562 (-1571)

ELEVATIONS

KB 1991'

DF

GL 1980'

Measurements Are All From Kelly Bushings

CASING

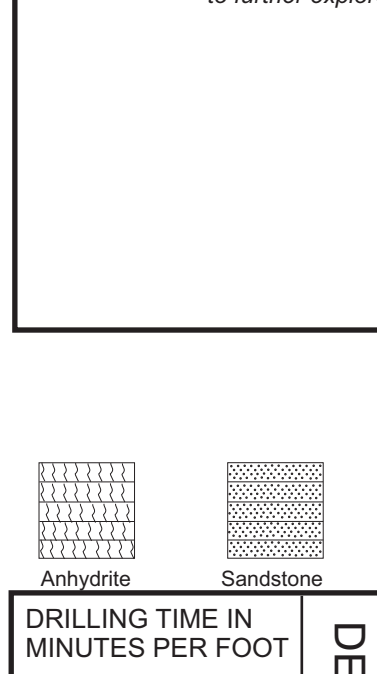
CONDUCTOR SURFACE 8.5' at 1195'

PRODUCTION 4.12'

ELECTRICAL SURVEYS

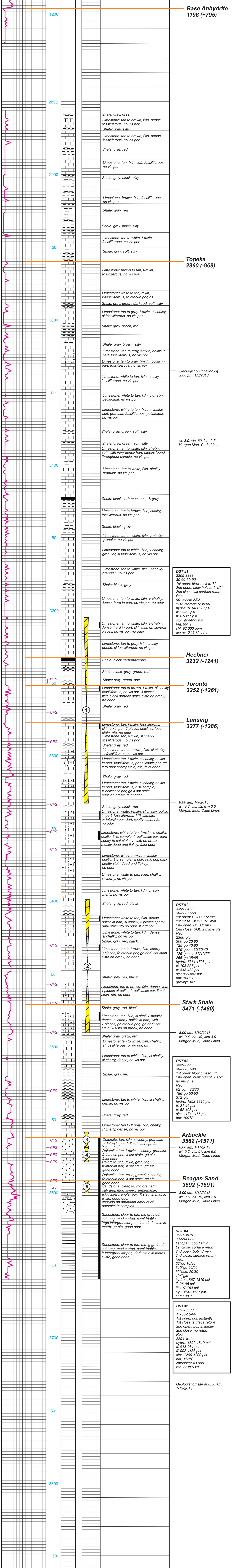
DIL / CN-CD

Log-Tech



REMARKS: With the positive results of DST's #2, #3, and #4, it is recommended that production casing be set on this test to further explore it's potential.

LEGEND





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Braun #1-36

36-15s-19w Ellis.KS

Start Date: 2013.01.09 @ 06:55:00

End Date: 2013.01.09 @ 15:35:00

Job Ticket #: 50252 DST #: 1

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

Printed: 2013.01.15 @ 13:22:11

Murfin Drilling Co. 36-15s-19w Ellis.KS Braun #1-36 DST # 1 Oread-KC "B" 2013.01.09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.

36-15s-19w Ellis.KS

250 N Water STE 300
Wichita KS 67202

Braun #1-36

Job Ticket: 50252

DST#: 1

ATTN: Robert Hendrix

Test Start: 2013.01.09 @ 06:55:00

GENERAL INFORMATION:

Formation: **Oread-KC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:34:00

Time Test Ended: 15:35:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3205.00 ft (KB) To 3333.00 ft (KB) (TVD)

Reference Elevations: 1991.00 ft (KB)

Total Depth: 3333.00 ft (KB) (TVD)

1980.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8166 Outside

Press @ RunDepth: 117.17 psig @ 3206.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.09

End Date:

2013.01.09

Last Calib.:

2013.01.09

Start Time: 06:55:05

End Time:

15:35:00

Time On Btm:

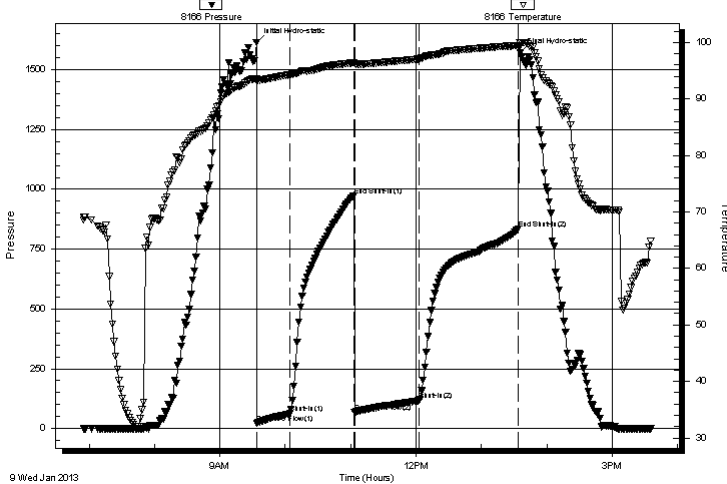
2013.01.09 @ 09:33:30

Time Off Btm:

2013.01.09 @ 13:35:30

TEST COMMENT: IF-7" blow
IS-No blow
FF-6 1/2" blow
FSI-weak surface blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1614.25	93.60	Initial Hydro-static
1	22.93	93.27	Open To Flow (1)
31	62.37	94.27	Shut-In(1)
90	973.51	96.40	End Shut-In(1)
90	67.13	96.18	Open To Flow (2)
150	117.17	97.09	Shut-In(2)
240	834.71	99.48	End Shut-In(2)
242	1570.11	99.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	V SOMCW 5%O 35%M 60%W	0.59
90.00	V SOCM 5%O 95%M	0.44

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

36-15s-19w Ellis.KS

250 N Water STE 300
Wichita KS 67202

Braun #1-36

Job Ticket: 50252

DST#: 1

ATTN: Robert Hendrix

Test Start: 2013.01.09 @ 06:55:00

Tool Information

Drill Pipe:	Length: 2970.00 ft	Diameter: 3.80 inches	Volume: 41.66 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 235.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 42.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3205.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	128.00 ft			
Tool Length:	156.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3178.00	
Shut In Tool	5.00			3183.00	
Hydraulic tool	5.00			3188.00	
Jars	5.00			3193.00	
Safety Joint	2.00			3195.00	
Packer	5.00			3200.00	28.00 Bottom Of Top Packer
Packer	5.00			3205.00	
Stubb	1.00			3206.00	
Recorder	0.00	6753	Inside	3206.00	
Recorder	0.00	8166	Outside	3206.00	
Perforations	5.00			3211.00	
Change Over Sub	1.00			3212.00	
Drill Pipe	95.00			3307.00	
Change Over Sub	1.00			3308.00	
Perforations	22.00			3330.00	
Bullnose	3.00			3333.00	128.00 Bottom Packers & Anchor
Total Tool Length:	156.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

36-15s-19w Ellis.KS

250 N Water STE 300
Wichita KS 67202

Braun #1-36

Job Ticket: 50252

DST#: 1

ATTN: Robert Hendrix

Test Start: 2013.01.09 @ 06:55:00

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:

92000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	VSOMCW 5%O 35%M 60%W	0.590
90.00	VSOCM 5%O 95%M	0.443

Total Length: 210.00 ft Total Volume: 1.033 bbl

Num Fluid Samples: 0

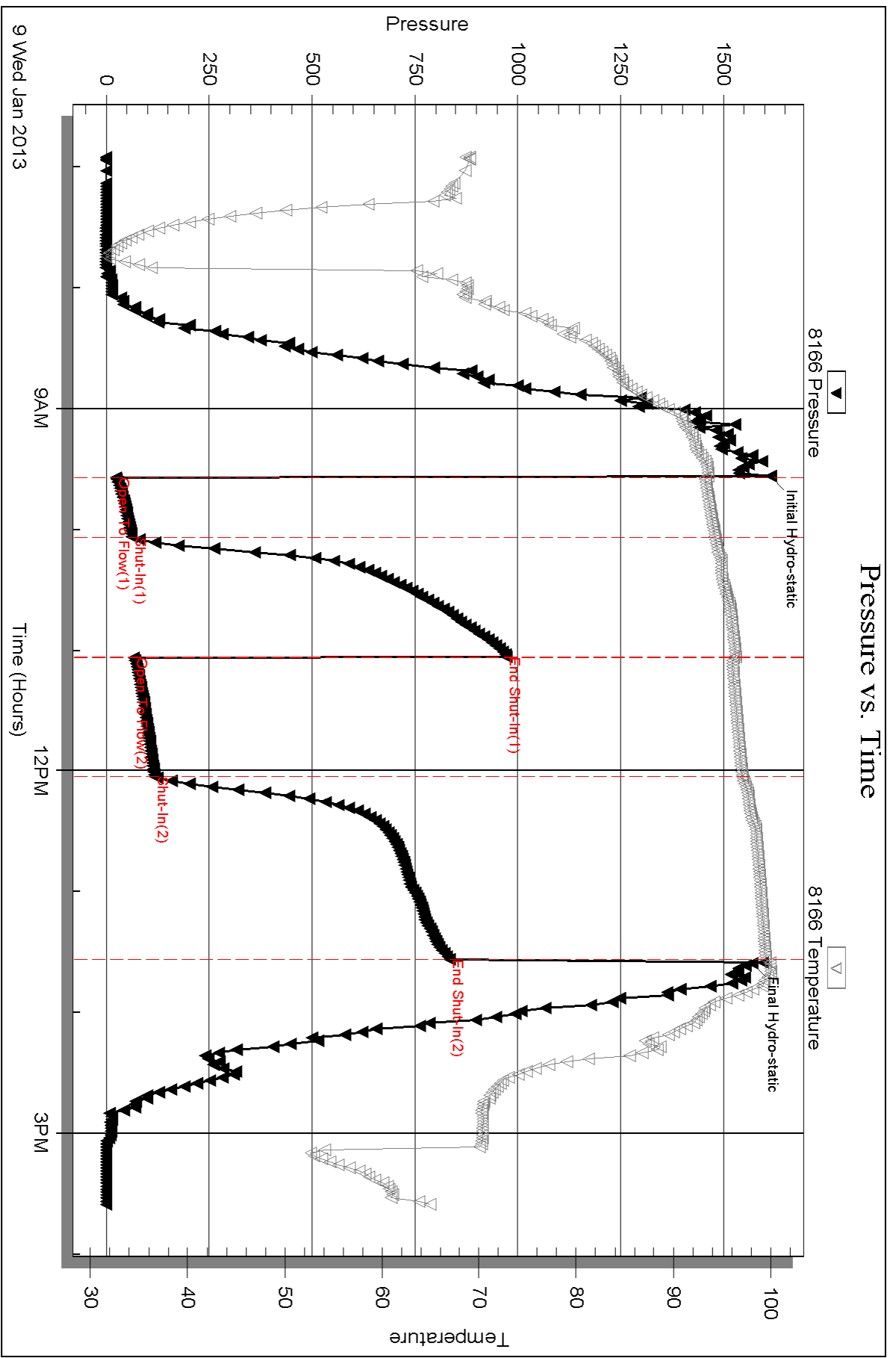
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



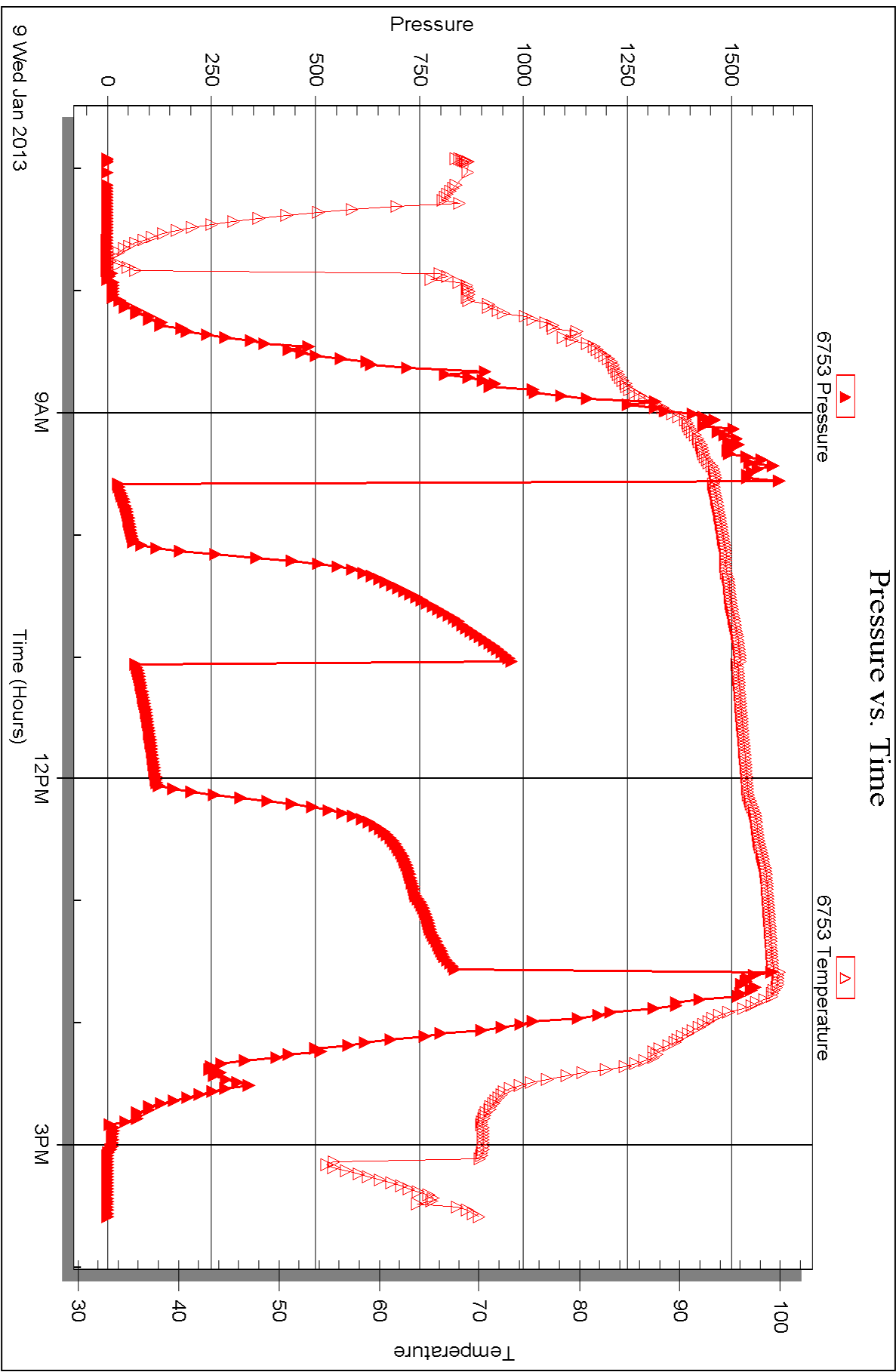
Serial #: 6753

Inside

Murfin Drilling Co.

Braun #1-36

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Braun #1-36

36-15s-19w Ellis.KS

Start Date: 2013.01.10 @ 08:35:00

End Date: 2013.01.10 @ 16:33:00

Job Ticket #: 50253 DST #: 2

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

Printed: 2013.01.15 @ 13:21:25

Murfin Drilling Co. 36-15s-19w Ellis.KS Braun #1-36 DST # 2 KC "H-K" 2013.01.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.

36-15s-19w Ellis.KS

250 N Water STE 300
Wichita KS 67202

Braun #1-36

Job Ticket: 50253

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.01.10 @ 08:35:00

GENERAL INFORMATION:

Formation: **KC "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:29:30

Time Test Ended: 16:33:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3399.00 ft (KB) To 3490.00 ft (KB) (TVD)

Reference Elevations: 1991.00 ft (KB)

Total Depth: 3490.00 ft (KB) (TVD)

1980.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8166 Outside

Press @RunDepth: 479.66 psig @ 3400.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.10

End Date:

2013.01.10

Last Calib.:

2013.01.10

Start Time: 08:35:05

End Time:

16:32:59

Time On Btm:

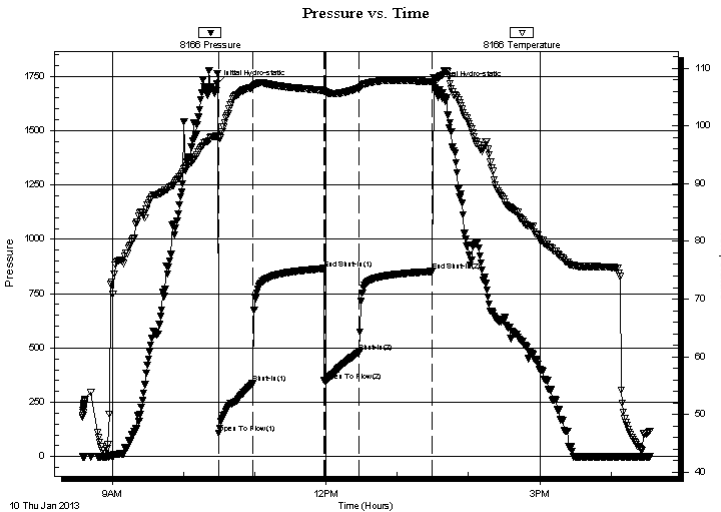
2013.01.10 @ 10:28:00

Time Off Btm:

2013.01.10 @ 13:31:00

TEST COMMENT: IF-BOB in 1 1/2 min
ISI-BOB in 2 1/2 min
FF-BOB in 2 min
FSI-BOB in 2 min GTS

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1714.01	98.22	Initial Hydro-static
2	108.39	97.90	Open To Flow (1)
30	336.96	106.67	Shut-In(1)
90	866.07	106.15	End Shut-In(1)
91	347.71	105.91	Open To Flow (2)
120	479.66	106.57	Shut-In(2)
182	852.16	107.68	End Shut-In(2)
183	1707.81	108.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	GO 20%G 80%O	2.07
125.00	GO 40%G 60%O	1.75
315.00	GOCM 30%G 30%O 40%M	4.42
125.00	GSMCO 35%G 55%O 10%M	1.75
265.00	GO 35%G 65%O	3.72
0.00	2360 GIP	0.00

* 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.

36-15s-19w Ellis.KS

250 N Water STE 300
Wichita KS 67202

Braun #1-36

Job Ticket: 50253

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.01.10 @ 08:35:00

Tool Information

Drill Pipe:	Length: 3161.00 ft	Diameter: 3.80 inches	Volume: 44.34 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 235.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 45.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3399.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	119.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3372.00	
Shut In Tool	5.00			3377.00	
Hydraulic tool	5.00			3382.00	
Jars	5.00			3387.00	
Safety Joint	2.00			3389.00	
Packer	5.00			3394.00	28.00 Bottom Of Top Packer
Packer	5.00			3399.00	
Stubb	1.00			3400.00	
Recorder	0.00	6753	Inside	3400.00	
Recorder	0.00	8166	Outside	3400.00	
Perforations	5.00			3405.00	
Change Over Sub	1.00			3406.00	
Drill Pipe	63.00			3469.00	
Change Over Sub	1.00			3470.00	
Perforations	17.00			3487.00	
Bullnose	3.00			3490.00	91.00 Bottom Packers & Anchor
Total Tool Length:	119.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

36-15s-19w Ellis.KS

250 N Water STE 300
Wichita KS 67202

Braun #1-36

Job Ticket: 50253

DST#: 2

ATTN: Robert Hendrix

Test Start: 2013.01.10 @ 08:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
300.00	GO 20%G 80%O	2.067
125.00	GO 40%G 60%O	1.753
315.00	GOCM 30%G 30%O 40%M	4.419
125.00	GSMCO 35%G 55%O 10%M	1.753
265.00	GO 35%G 65%O	3.717
0.00	2360 GIP	0.000

Total Length: 1130.00 ft

Total Volume: 13.709 bbl

Num Fluid Samples: 0

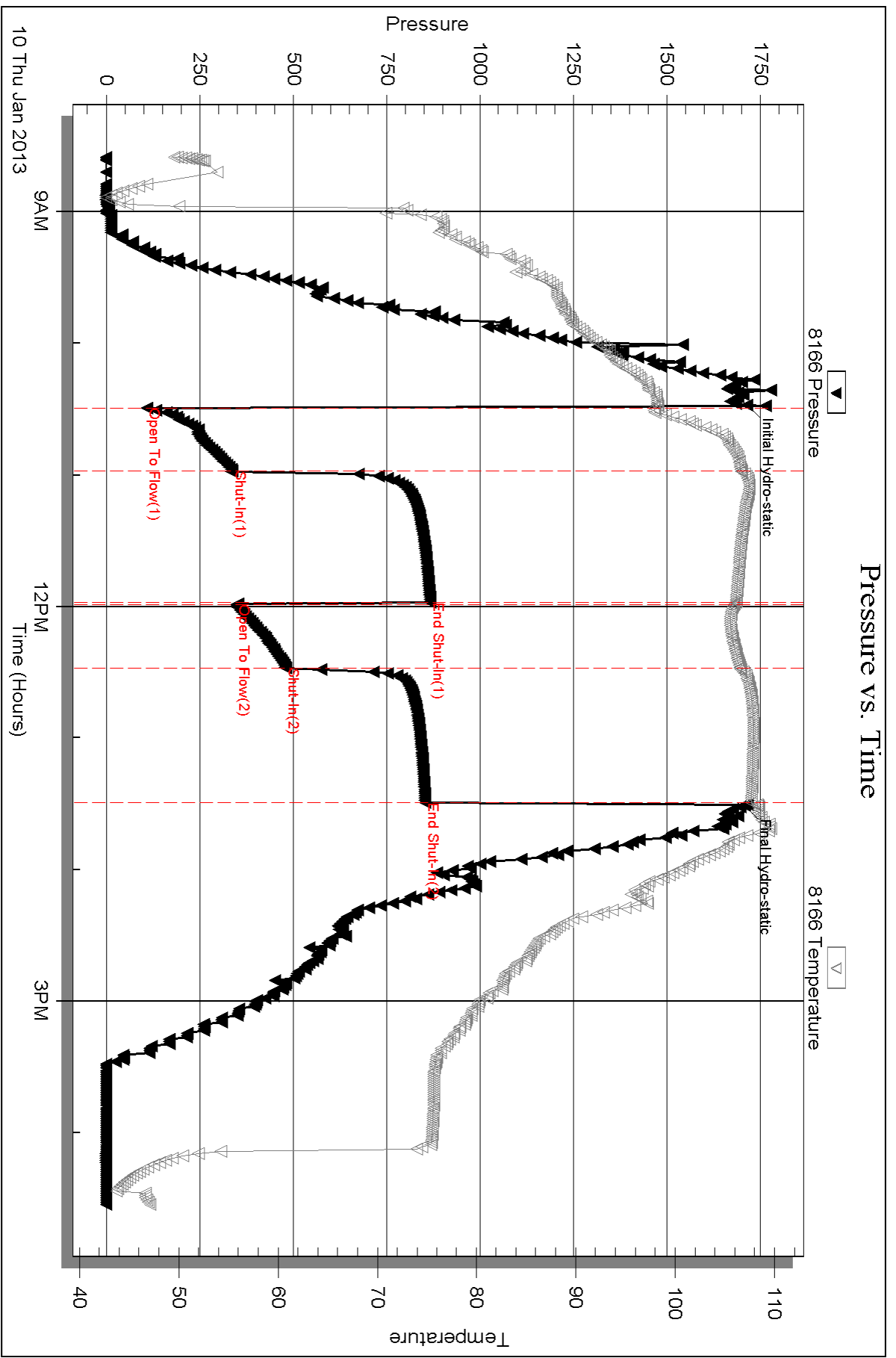
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



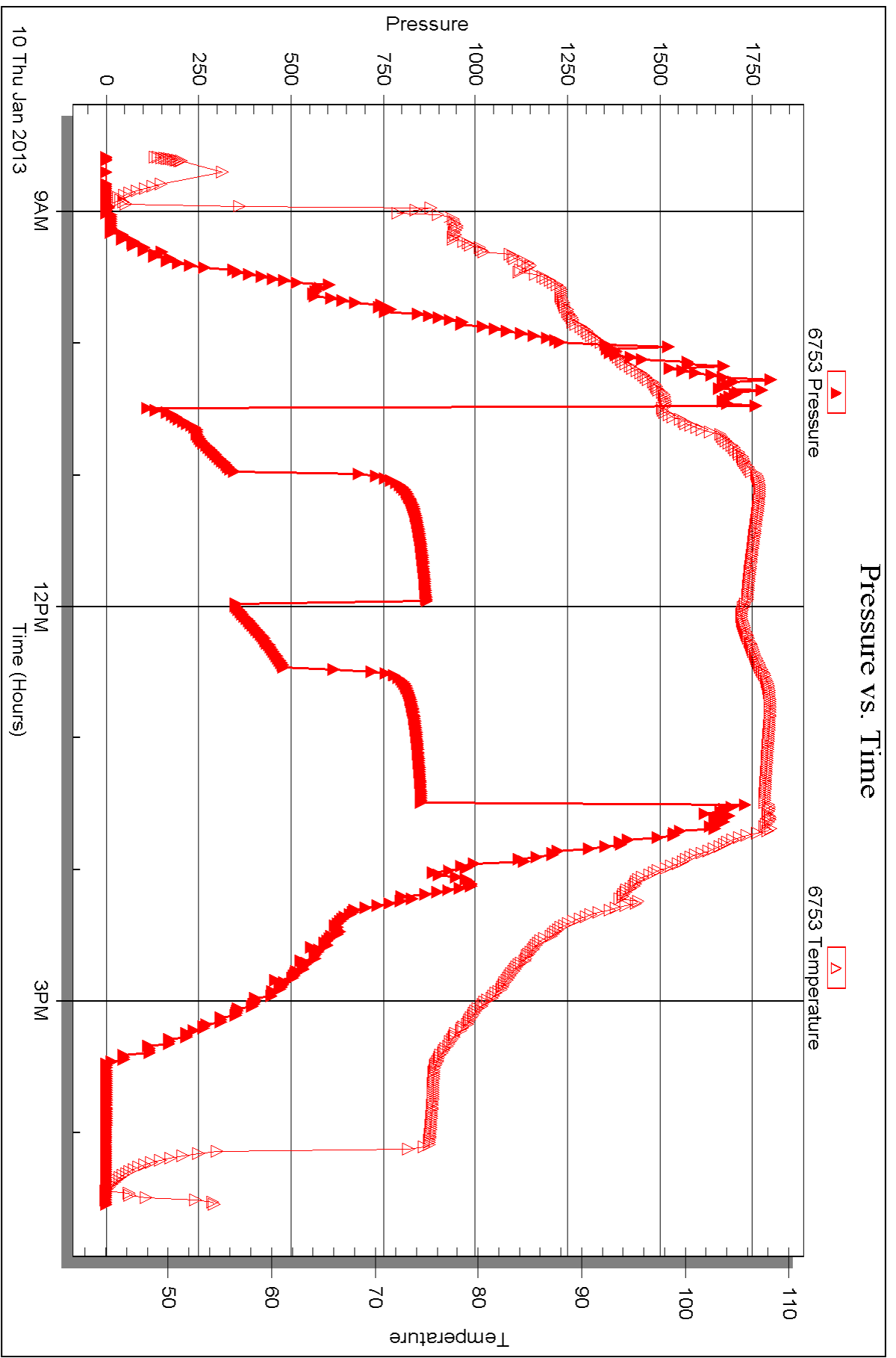
Serial #: 6753

Inside

Murfin Drilling Co.

Braun #1-36

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Braun #1-36

36-15s-19w Ellis.KS

Start Date: 2013.01.11 @ 02:30:00

End Date: 2013.01.11 @ 09:58:00

Job Ticket #: 51574 DST #: 3

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

Printed: 2013.01.15 @ 13:15:10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.

36-15s-19w Ellis.KS

250 N Water STE 300
Wichita KS 67202

Braun #1-36

Job Ticket: 51574

DST#: 3

ATTN: Robert Hendrix

Test Start: 2013.01.11 @ 02:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:16:00

Time Test Ended: 09:58:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 59

Interval: 3559.00 ft (KB) To 3569.00 ft (KB) (TVD)

Reference Elevations: 1991.00 ft (KB)

Total Depth: 3569.00 ft (KB) (TVD)

1980.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6753 Inside

Press @ Run Depth: 103.50 psig @ 3560.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.11

End Date:

2013.01.11

Last Calib.:

2013.01.11

Start Time: 02:30:05

End Time:

09:57:59

Time On Btm:

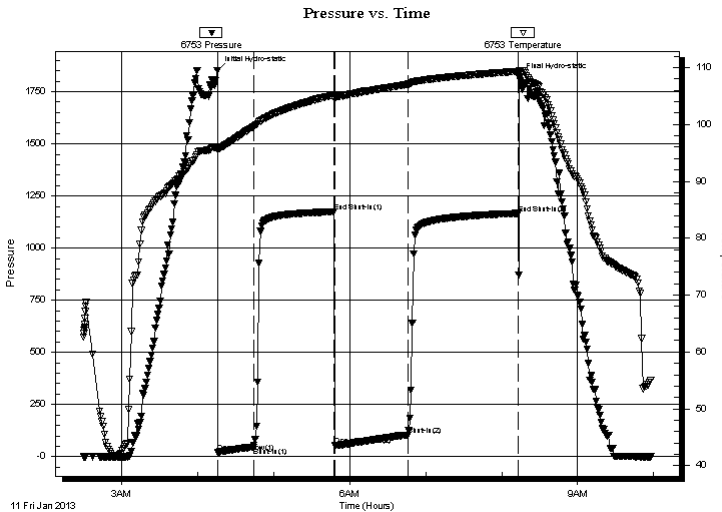
2013.01.11 @ 04:15:30

Time Off Btm:

2013.01.11 @ 08:14:00

TEST COMMENT: 30 - IF- 3" blow .
60 - IS- No blow back.
60 - FF- 2 1/2" blow
90 - FS- No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1852.04	96.01	Initial Hydro-static
1	21.25	95.58	Open To Flow (1)
29	46.22	99.58	Shut-In(1)
92	1174.75	105.16	End Shut-In(1)
93	52.65	104.81	Open To Flow (2)
151	103.50	107.04	Shut-In(2)
238	1166.61	109.32	End Shut-In(2)
239	1815.49	109.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OCM, 20%O, 80%M	0.30
186.00	GO, 50%G, 50%O	1.03
0.00	372' of G.I.P.	0.00

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.

36-15s-19w Ellis.KS

250 N Water STE 300
Wichita KS 67202

Braun #1-36

Job Ticket: 51574

DST#: 3

ATTN: Robert Hendrix

Test Start: 2013.01.11 @ 02:30:00

Tool Information

Drill Pipe:	Length: 3318.00 ft	Diameter: 3.80 inches	Volume: 46.54 bbl	Tool Weight:	2500.00 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: 235.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	64000.00 lb
			<u>Total Volume: 47.70 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3559.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	38.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3532.00	
Shut In Tool	5.00			3537.00	
Hydraulic tool	5.00			3542.00	
Jars	5.00			3547.00	
Safety Joint	2.00			3549.00	
Packer	5.00			3554.00	28.00 Bottom Of Top Packer
Packer	5.00			3559.00	
Stubb	1.00			3560.00	
Recorder	0.00	6753	Inside	3560.00	
Recorder	0.00	8166	Outside	3560.00	
Perforations	6.00			3566.00	
Bullnose	3.00			3569.00	10.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

36-15s-19w Ellis.KS

250 N Water STE 300
Wichita KS 67202

Braun #1-36

Job Ticket: 51574

DST#: 3

ATTN: Robert Hendrix

Test Start: 2013.01.11 @ 02:30:00

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:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	OCM, 20%O, 80%M	0.305
186.00	GO, 50%G, 50%O	1.033
0.00	372' of G.I.P.	0.000

Total Length: 248.00 ft Total Volume: 1.338 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

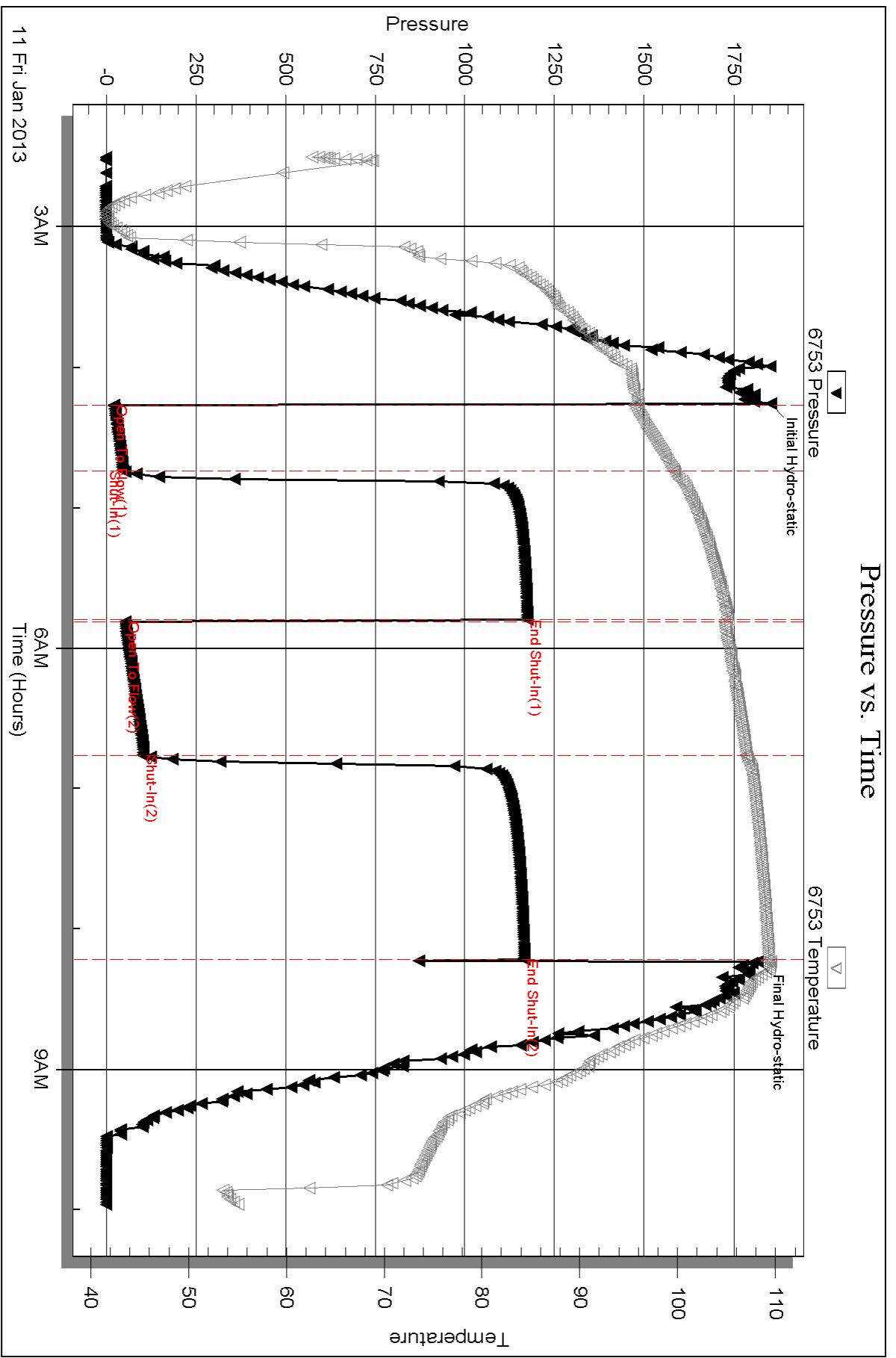
Serial #: 6753

Inside

Murfin Drilling Co.

Braun #1-36

DST Test Number: 3

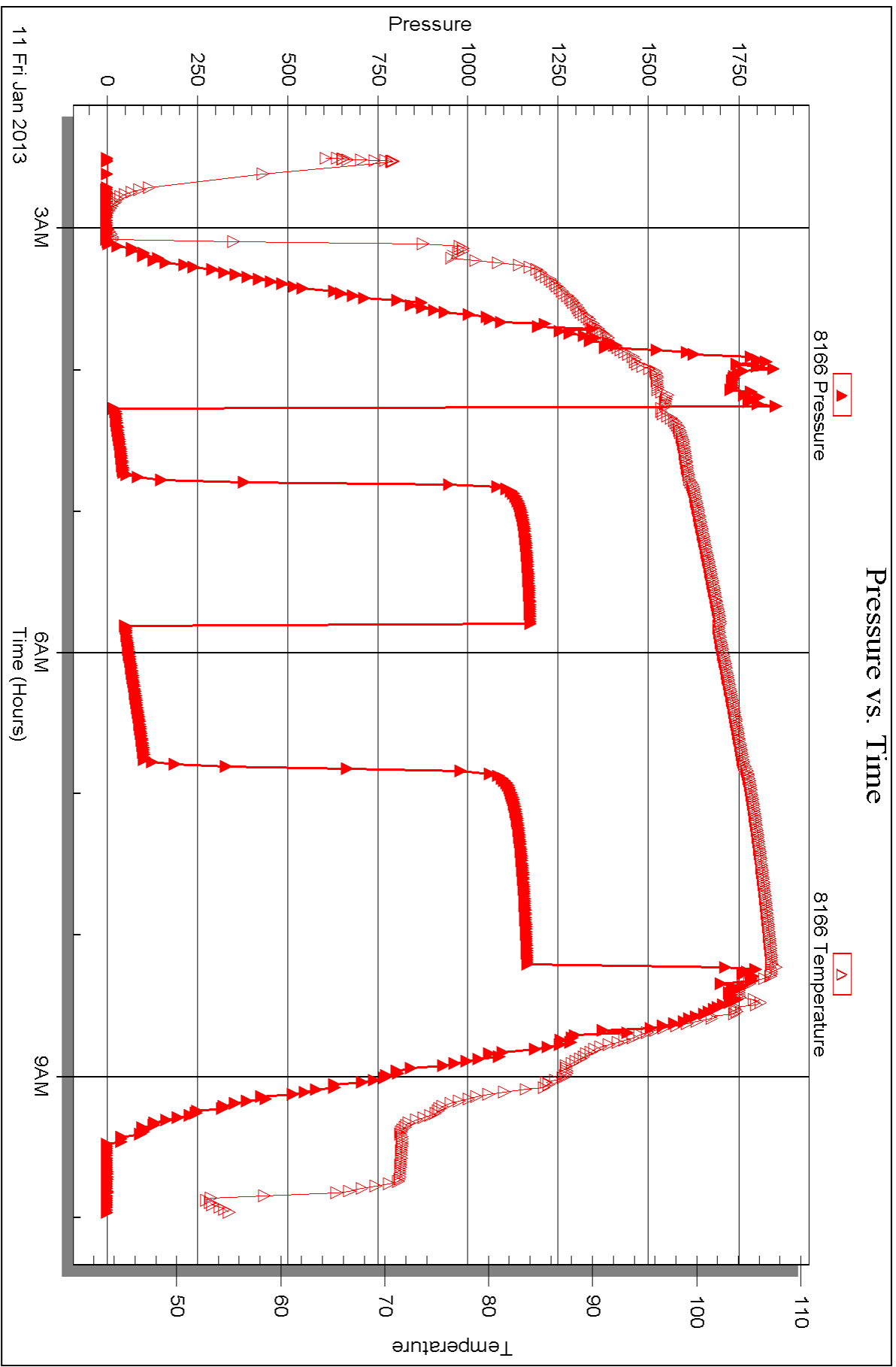


Serial #: 8166

Outside Murfin Drilling Co.

Braun #1-36

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Braun #1-36

36-15s-19w Ellis.KS

Start Date: 2013.01.11 @ 16:35:00

End Date: 2013.01.12 @ 00:20:30

Job Ticket #: 51575 DST #: 4

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

Printed: 2013.01.15 @ 13:13:46



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.

36-15s-19w Ellis.KS

250 N Water STE 300
Wichita KS 67202

Braun #1-36

Job Ticket: 51575

DST#: 4

ATTN: Robert Hendrix

Test Start: 2013.01.11 @ 16:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:21:00

Time Test Ended: 00:20:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 59

Interval: 3569.00 ft (KB) To 3579.00 ft (KB) (TVD)

Reference Elevations: 1991.00 ft (KB)

Total Depth: 3579.00 ft (KB) (TVD)

1980.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6753 Inside

Press @ RunDepth: 164.89 psig @ 3570.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.11

End Date:

2013.01.12

Last Calib.:

2013.01.12

Start Time: 16:35:05

End Time:

00:20:29

Time On Btm:

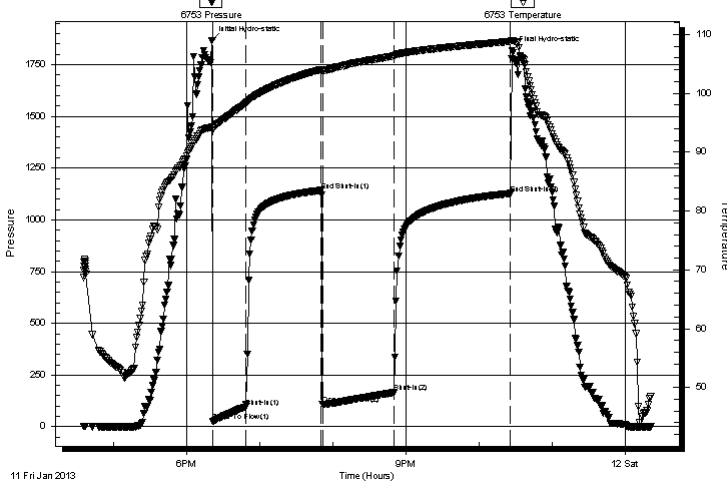
2013.01.11 @ 18:20:30

Time Off Btm:

2013.01.11 @ 22:27:00

TEST COMMENT: 30 - IF- B.O.B. in 11 Minutes
60 - IS- Surface blow .
60 - FF- B.O.B. in 17 Minutes
90 - FS- Surface blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1867.69	94.34	Initial Hydro-static
1	26.42	93.73	Open To Flow (1)
28	95.37	98.25	Shut-In(1)
90	1142.91	104.04	End Shut-In(1)
91	107.25	103.81	Open To Flow (2)
149	164.89	106.32	Shut-In(2)
245	1127.70	108.80	End Shut-In(2)
247	1819.71	109.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GO, 10%G, 90%O	0.30
310.00	GO, 50%G, 50%O	2.77
62.00	OCM, 20%O, 80%M	0.87
0.00	124' of G.I.P.	0.00

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.

36-15s-19w Ellis.KS

250 N Water STE 300
Wichita KS 67202

Braun #1-36

Job Ticket: 51575

DST#: 4

ATTN: Robert Hendrix

Test Start: 2013.01.11 @ 16:35:00

Tool Information

Drill Pipe:	Length: 3320.00 ft	Diameter: 3.80 inches	Volume: 46.57 bbl	Tool Weight:	2500.00 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: 235.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	66000.00 lb
			<u>Total Volume: 47.73 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3569.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	38.00 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			3542.00	
Shut In Tool	5.00			3547.00	
Hydraulic tool	5.00			3552.00	
Jars	5.00			3557.00	
Safety Joint	2.00			3559.00	
Packer	5.00			3564.00	28.00 Bottom Of Top Packer
Packer	5.00			3569.00	
Stubb	1.00			3570.00	
Recorder	0.00	6753	Inside	3570.00	
Recorder	0.00	8166	Outside	3570.00	
Perforations	6.00			3576.00	
Bullnose	3.00			3579.00	10.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

36-15s-19w Ellis.KS

250 N Water STE 300
Wichita KS 67202

Braun #1-36

Job Ticket: 51575

DST#: 4

ATTN: Robert Hendrix

Test Start: 2013.01.11 @ 16:35:00

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: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	GO, 10%G, 90%O	0.305
310.00	GO, 50%G, 50%O	2.773
62.00	OCM, 20%O, 80%M	0.870
0.00	124' of G.I.P.	0.000

Total Length: 434.00 ft

Total Volume: 3.948 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

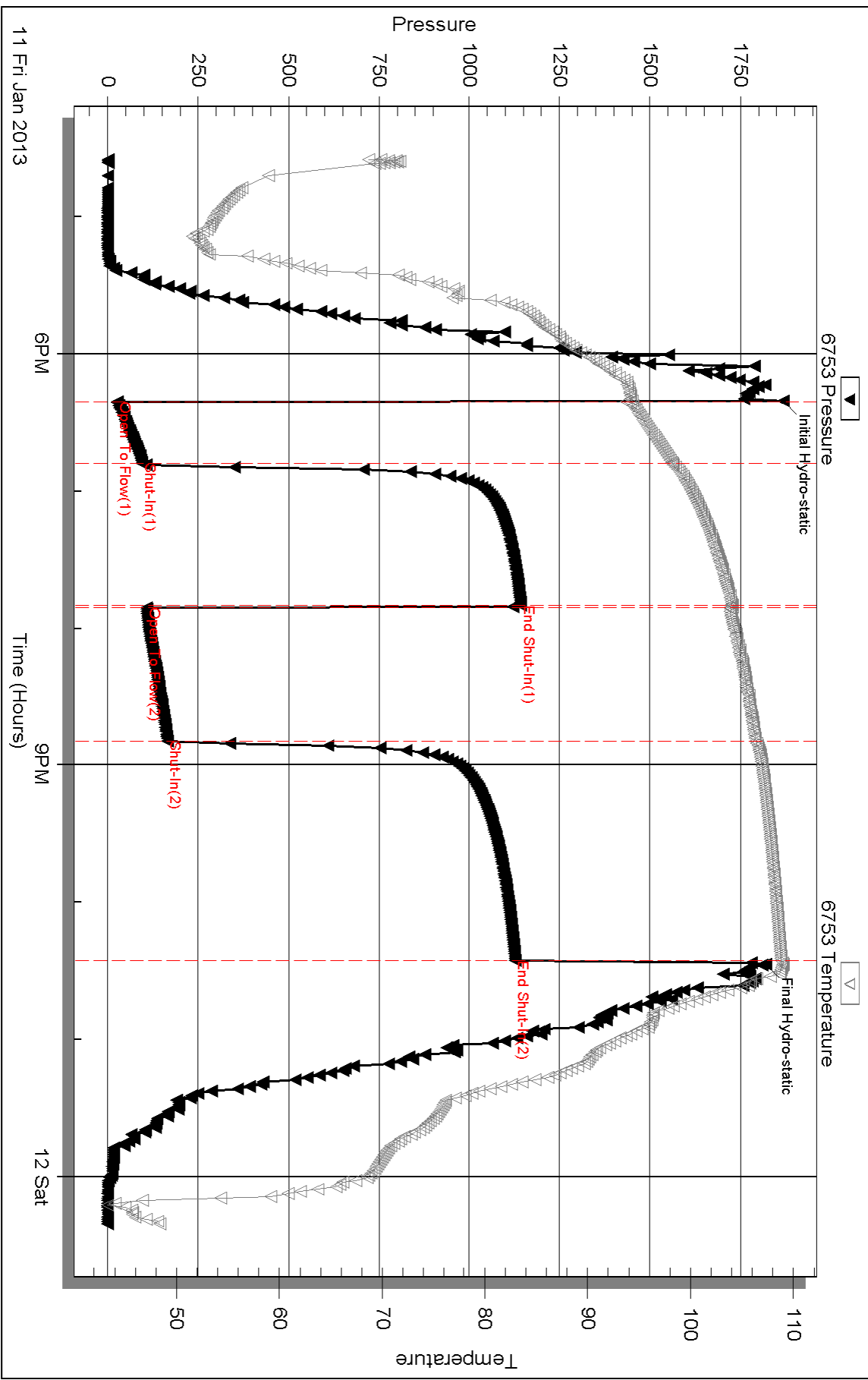
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

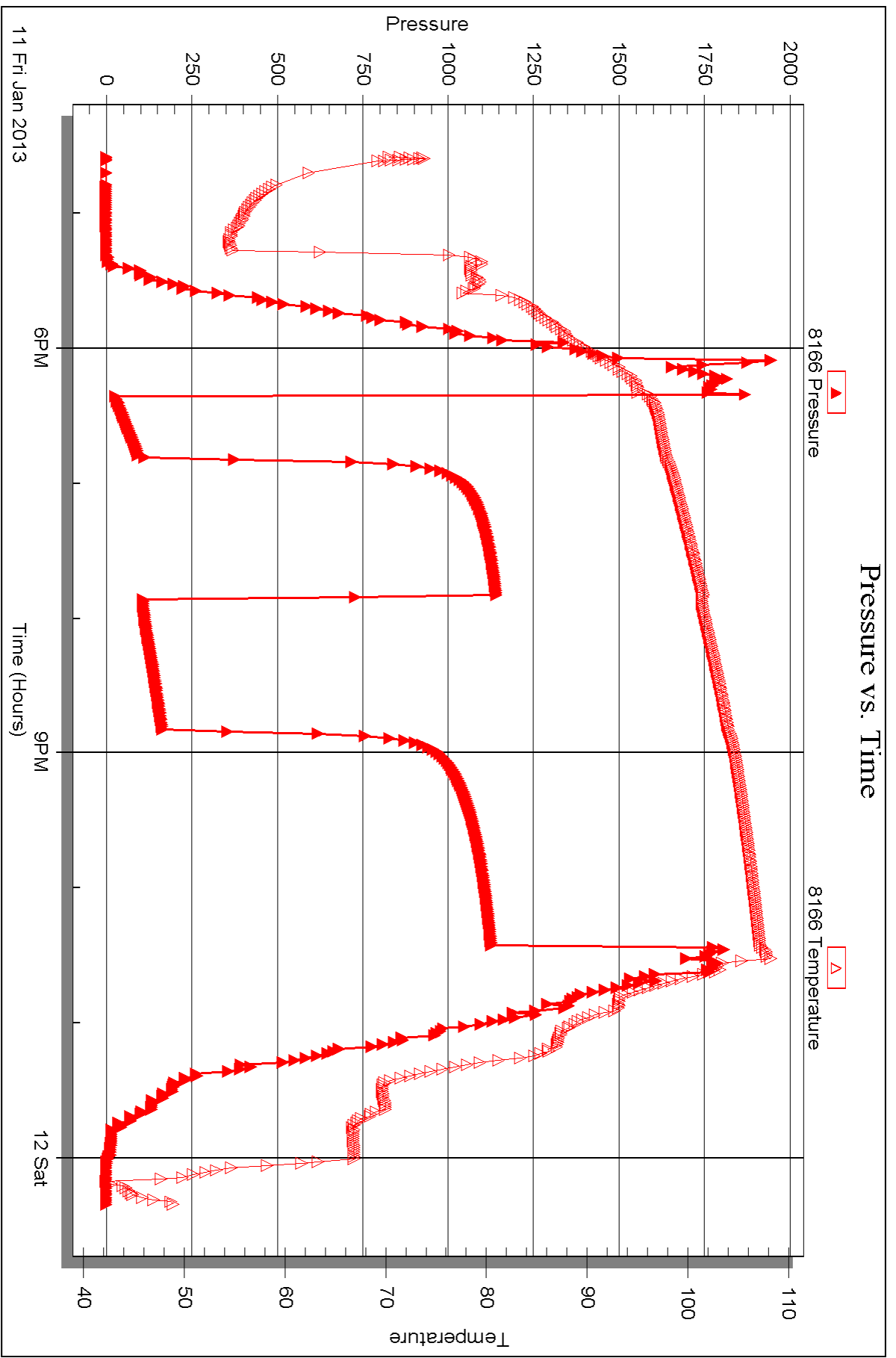


Serial #: 8166

Outside Murfin Drilling Co.

Braun #1-36

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 51575

Printed: 2013.01.15 @ 13:13:52



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Braun #1-36

36-15s-19w Ellis.KS

Start Date: 2013.01.12 @ 07:31:00

End Date: 2013.01.12 @ 15:53:00

Job Ticket #: 50254 DST #: 5

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

Printed: 2013.01.15 @ 13:12:18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.

36-15s-19w Ellis.KS

250 N Water STE 300
Wichita KS 67202

Braun #1-36

Job Ticket: 50254

DST#: 5

ATTN: Robert Hendrix

Test Start: 2013.01.12 @ 07:31:00

GENERAL INFORMATION:

Formation: **Reagan Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:51:30

Time Test Ended: 15:53:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 59

Interval: 3592.00 ft (KB) To 3600.00 ft (KB) (TVD)

Reference Elevations: 1991.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

1980.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6753

Inside

Press @ Run Depth: 1156.10 psig @ 3593.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.12

End Date:

2013.01.12

Last Calib.:

2013.01.12

Start Time:

07:31:05

End Time:

15:52:59

Time On Btm:

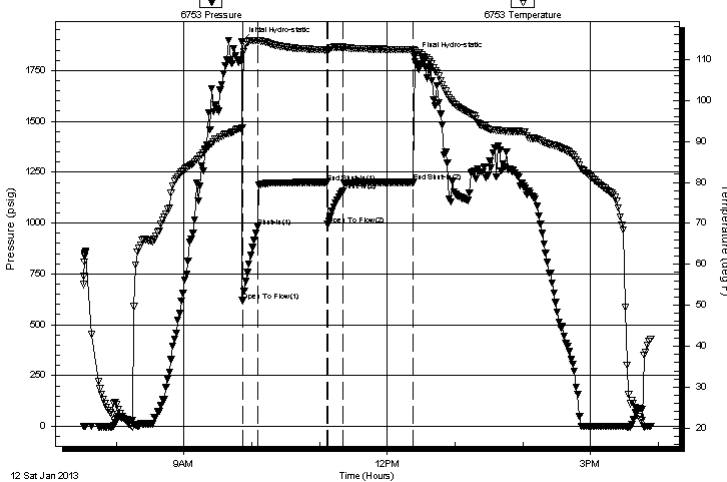
2013.01.12 @ 09:51:00

Time Off Btm:

2013.01.12 @ 12:24:00

TEST COMMENT: 15 - IF- B.O.B. instantly
60 - IS- Weak surface blow back
15 - FF- B.O.B. instantly
60 - FS- No blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1890.31	93.27	Initial Hydro-static
1	618.46	93.43	Open To Flow (1)
14	981.05	114.64	Shut-In(1)
76	1200.47	112.32	End Shut-In(1)
76	993.60	112.22	Open To Flow (2)
90	1156.10	113.01	Shut-In(2)
152	1200.73	112.41	End Shut-In(2)
153	1819.20	112.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2294.00	Water	30.04

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.

36-15s-19w Ellis.KS

250 N Water STE 300
Wichita KS 67202

Braun #1-36

Job Ticket: 50254

DST#: 5

ATTN: Robert Hendrix

Test Start: 2013.01.12 @ 07:31:00

Tool Information

Drill Pipe:	Length: 3351.00 ft	Diameter: 3.80 inches	Volume: 47.01 bbl	Tool Weight:	2500.00 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: 235.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	74000.00 lb
			<u>Total Volume: 48.17 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3592.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	8.00 ft				
Tool Length:	36.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3565.00	
Shut In Tool	5.00			3570.00	
Hydraulic tool	5.00			3575.00	
Jars	5.00			3580.00	
Safety Joint	2.00			3582.00	
Packer	5.00			3587.00	28.00 Bottom Of Top Packer
Packer	5.00			3592.00	
Stubb	1.00			3593.00	
Recorder	0.00	6753	Inside	3593.00	
Recorder	0.00	8166	Outside	3593.00	
Perforations	4.00			3597.00	
Bullnose	3.00			3600.00	8.00 Bottom Packers & Anchor

Total Tool Length: 36.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

36-15s-19w Ellis.KS

250 N Water STE 300
Wichita KS 67202

Braun #1-36

Job Ticket: 50254

DST#: 5

ATTN: Robert Hendrix

Test Start: 2013.01.12 @ 07:31:00

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: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2294.00	Water	30.038

Total Length: 2294.00 ft Total Volume: 30.038 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

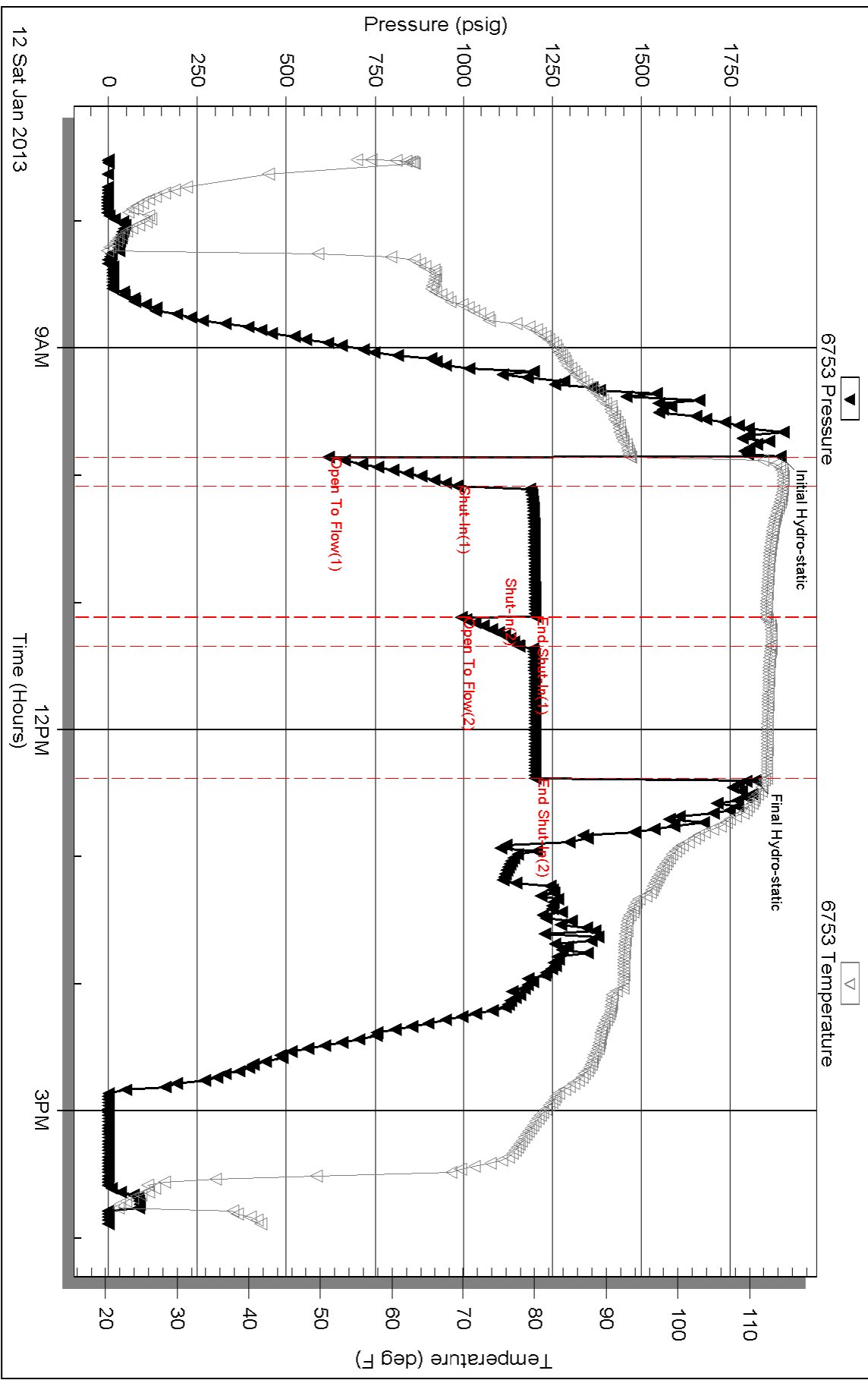
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

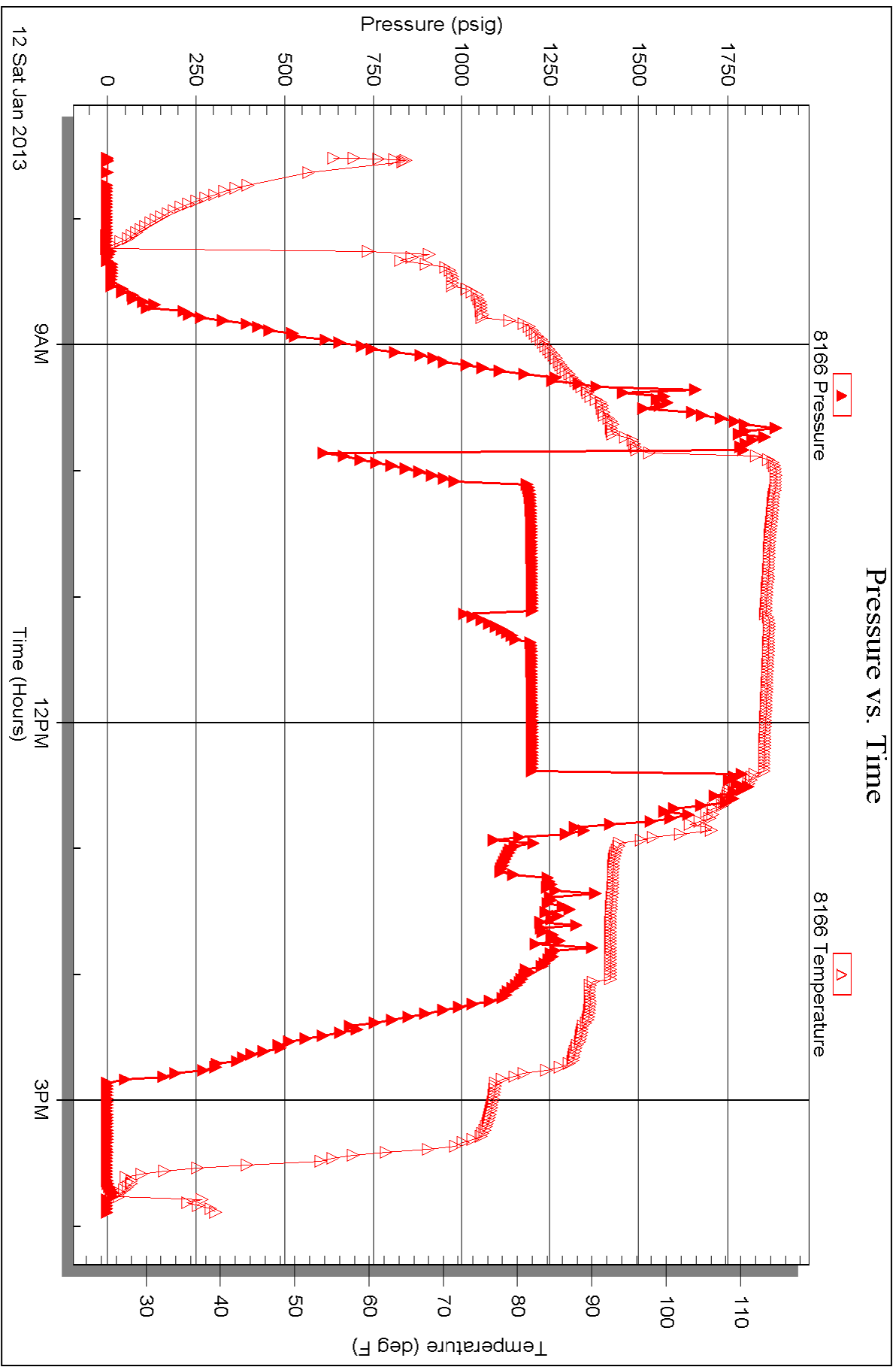


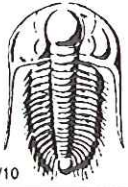
Serial #: 8166

Outside Murfin Drilling Co.

Braun #1-36

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **50252**

Well Name & No. Braun #1-36 Test No. 1 Date 1/9/13
 Company Murfin Drilling Co. Elevation 1991 KB 1980 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 36 Twp. 15s Rge. 19w Co. Ellis State KS

Interval Tested 3205 - 3333 Zone Tested Oread - AC "D"
 Anchor Length 128 Drill Pipe Run 2970 Mud Wt. 8.9
 Top Packer Depth 3200 Drill Collars Run 235 Vis 60
 Bottom Packer Depth 3205 Wt. Pipe Run — WL 7.6
 Total Depth 3333 Chlorides 5,500 ppm System LCM
 Blow Description FF - 7 in blow
ISI - No blow
FF - 6 1/2 in blow
FST - weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>VSOCM</u>	<u>5</u>	<u>5</u>	<u>95</u>	<u>—</u>
<u>120</u>	<u>VSOCM</u>	<u>5</u>	<u>60</u>	<u>35</u>	<u>—</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 210 BHT 99 Gravity — API RW 11 @ 65 °F Chlorides 92,000 ppm

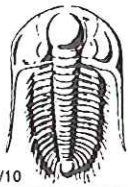
(A) Initial Hydrostatic <u>4614</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>4:45</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>6:55</u>
(C) First Final Flow <u>62</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>9:33</u>
(D) Initial Shut-In <u>974</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>13:33</u>
(E) Second Initial Flow <u>67</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>15:35</u>
(F) Second Final Flow <u>117</u>	<input checked="" type="checkbox"/> Mileage <u>38RT</u> 58.90	Comments
(G) Final Shut-In <u>835</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1,570</u>	<input type="checkbox"/> Straddle	

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

Sub Total 1533.90

Approved By _____ Our Representative Braun Dan

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. 50253

Well Name & No. Braun #1-36 Test No. 2 Date 1/10/13
 Company Murkin Drilling Co. Elevation 1991 KB 1980 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murkin #2
 Location: Sec. 36 Twp. 15S Rge. 19W Co. Ellis State KS

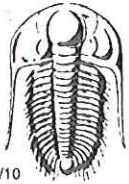
Interval Tested 3999 - 3490 Zone Tested KC "H-K"
 Anchor Length 91 Drill Pipe Run _____ Mud Wt. _____
 Top Packer Depth 3994 Drill Collars Run 235 Visc _____
 Bottom Packer Depth 3399 Wt. Pipe Run _____ WL _____
 Total Depth 3490 Chlorides _____ ppm System LCM _____
 Blow Description IF-BOB in 1 1/2 min
ISI-BOB in 2 1/2 min
FF-BOB in 2 min
FSI-BOB in 2 min GTS

Rec	Feet of	%gas	%oil	%water	%mud
300	60	20	80		
125	60	40	60		
315	60CM	30	30		40
125	BSMLO	35	55		10
265	60	35	85		

Rec Total 1130 BHT 108 Gravity 34 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1,714 Test 1150 T-On Location 8:00
 (B) First Initial Flow 108 Jars 250 T-Started 8:35
 (C) First Final Flow 337 Safety Joint 75 T-Open 10:25
 (D) Initial Shut-In 866 Circ Sub _____ T-Pulled 13:25
 (E) Second Initial Flow 348 Hourly Standby _____ T-Out 16:30
 (F) Second Final Flow 480 Mileage 38.7 58.90 Comments _____
 (G) Final Shut-In 852 Sampler _____
 (H) Final Hydrostatic 1,708 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 1533.90
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1533.90

Approved By _____ Our Representative Bill Dickman
 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. 51574

Well Name & No. Bracon #1-36 Test No. 3 Date 1-11-13
 Company Murfin Drilling Co Elevation 1991 KB 180 GL
 Address 250 N. Water STE 300, Wichita KS, 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 36 Twp. 15S Rge. 19W Co. Ellis State KS

Interval Tested 3559-3569 Zone Tested Arbuckle
 Anchor Length 10' Drill Pipe Run 3318 Mud Wt. 9.4
 Top Packer Depth 3554 Drill Collars Run 235' Vis 49
 Bottom Packer Depth 3559 Wt. Pipe Run — WL 8.0
 Total Depth 3569 Chlorides 7.600 ppm System LCM —

Blow Description IF- 3" blow.
ISI- No blow back.
FF- 2 1/2" blow.
FSI- No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>OCM</u>	<u>20</u>	<u>—</u>	<u>80</u>	<u>—</u>
<u>186</u>	<u>GO</u>	<u>50</u>	<u>50</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>372' of G.I.P.</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 248' BHT 109° Gravity — API RW — @ — °F Chlorides — ppm

- (A) Initial Hydrostatic 1852
- (B) First Initial Flow 21
- (C) First Final Flow 46
- (D) Initial Shut-In 1174
- (E) Second Initial Flow 52
- (F) Second Final Flow 103
- (G) Final Shut-In 1166
- (H) Final Hydrostatic 1815

- Test 1150
- Jars 250
- Safety Joint 75
- Circ Sub —
- Hourly Standby —
- Mileage 38 RT 58.90
- Sampler —
- Straddle —
- Shale Packer —
- Extra Packer —
- Extra Recorder —
- Day Standby —
- Accessibility —
- Sub Total 1533.90

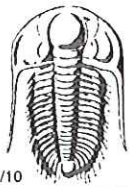
T-On Location 2:00am
 T-Started 2:30am
 T-Open 4:16am
 T-Pulled 8:16am
 T-Out 10:00am

Comments —
 Ruined Shale Packer —
 Ruined Packer —
 Extra Copies —
 Sub Total 0
 Total 1533.90
 MP/DST Disc't —

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

Approved By — Our Representative Cody Blasz

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. 51575

4/10

Well Name & No. Braun 1-36 Test No. 4 Date 1-11-13
 Company Murfin Drilling Co Elevation 1991 KB 1980 GL
 Address 250 N. Water STE 300, Wichita KS, 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin # 2
 Location: Sec. 36 Twp. 15S Rge. 19W Co. Ellis State KS

Interval Tested 3569-3579 Zone Tested Arbuckle
 Anchor Length 10' Drill Pipe Run 3320' Mud Wt. 9.2
 Top Packer Depth 3564 Drill Collars Run 235' Vis 57
 Bottom Packer Depth 3569 Wt. Pipe Run — WL 8.0
 Total Depth 3579 Chlorides 8,700 ppm System LCM —

Blow Description IF - B.O.B. in 11 Minutes
1st - Surface blow
FF - B.O.B. in 17 Minutes
1st - Surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>60</u>	<u>10</u>	<u>90</u>		
<u>310</u>	<u>60</u>	<u>50</u>	<u>50</u>		
<u>62</u>	<u>OCM</u>		<u>20</u>		<u>80</u>
	<u>124' of G.I.P.</u>				

Rec Total 434' BHT 1080 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1867</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>4:15pm</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>4:35pm</u>
(C) First Final Flow <u>95</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>6:22pm</u>
(D) Initial Shut-In <u>1142</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>10:22pm</u>
(E) Second Initial Flow <u>107</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:23am</u>
(F) Second Final Flow <u>164</u>	<input checked="" type="checkbox"/> Mileage <u>38 RT</u> 58.90	Comments
(G) Final Shut-In <u>1127</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1819</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

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

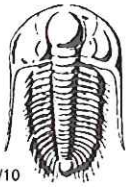
Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1533.90

MP/DST Disc't

Approved By _____ Our Representative Cody Riley

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. 50254

Well Name & No. Braun 1-36 Test No. 5 Date 1-12-13
 Company Murfin Drilling Co Elevation 1991 KB 1980 GL
 Address 250 N. Water STE 300, Wichita KS, 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 31 Twp. 15s Rge. 19w Co. Ellis State KS

Interval Tested 3592-3600 Zone Tested Reagan Sand
 Anchor Length 8' Drill Pipe Run 3351' Mud Wt. 9.2
 Top Packer Depth 3587 Drill Collars Run 235' Vis 57
 Bottom Packer Depth 3592 Wt. Pipe Run — WL 8.0
 Total Depth 3600 Chlorides 8,700 ppm System LCM —

Blow Description IF- B.O.B. instantly
ISI- Weak surface return
FF- B.O.B. instantly
FST- No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2,294</u>	<u>Water</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2,294' BHT 112° Gravity — API RW .82 @ 63 °F Chlorides 43000 ppm
 (A) Initial Hydrostatic 1890 Test 1150 T-On Location 7:10am
 (B) First Initial Flow 618 Jars 250 T-Started 7:31am
 (C) First Final Flow 981 Safety Joint 75 T-Open 9:52am
 (D) Initial Shut-In 1200 Circ Subdropped bar 50 T-Pulled 12:22pm
 (E) Second Initial Flow 993 Hourly Standby _____ T-Out 3:55pm
 (F) Second Final Flow 1156 Mileage 38 RT 58.90
 (G) Final Shut-In 1200 Sampler _____
 (H) Final Hydrostatic 1819 Straddle _____

Initial Open 15 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 60 Shale Packer _____ Ruined Packer _____
 Final Flow 15 Extra Packer _____ Extra Copies _____
 Final Shut-In 60 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1583.90
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1583.90

Approved By _____ Our Representative Cody [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.

ALLIED

OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

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

PROD COPY INVOICE

Invoice Number: 134399

Invoice Date: Jan 6, 2013

Page: 1

acct. Prod-Lizt

Bill To:

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

Now Includes:



Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Braun #1-36	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Jan 6, 2013	2/5/13

Quantity	Item	Description	Unit Price	Amount
675.00	MAT	Class A Common	17.90	12,082.50
12.00	MAT	Gel	23.40	280.80
23.00	MAT	Chloride	64.00	1,472.00
728.70	SER	Cubic Feet	2.48	1,807.10
431.57	SER	Ton Mileage	2.60	1,122.10
1.00	SER	Surface	2,213.75	2,213.75
13.00	SER	Pump Truck Mileage	7.70	100.10
13.00	SER	Light Vehicle Mileage	4.40	57.20
2.00	EQP	8.5/8 Centralizer	74.85	149.70
1.00	EQP	8.5/8 Baffle Plate	131.04	131.04
1.00	EQP	8.5/8 Rubber Plug	131.04	131.04
1.00	CEMENTER	Dustin Chambers		
1.00	EQUIP OPER	Joshua Isaac		
1.00	EQUIP OPER	Joel Monahan		
1.00	OPER ASSIST	Alan Geneureux		

Account	Description
10203	12430.49 COMPAT SCS
3.0574.000	

1-36

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

\$8014.41

ONLY IF PAID ON OR BEFORE
Jan 31, 2013

Subtotal	19,547.33
Sales Tax	897.57
Total Invoice Amount	20,444.90
Payment/Credit Applied	
TOTAL	20,444.90

oild

- 8014.41

12,430.49

Accty -
cc: WIP
cc: Liz
cc: LR-1



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: 1/15/2013
Invoice # 6339

P.O.#:

Due Date: 2/14/2013

Division: Russell

Invoice

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

USED FOR IC 103
APPROVED [Signature]

Reference:
BRAUN 1-36

Description of Work:
PROD LONG STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	16	\$101.45	No
Common-Class A	180	\$ 2,450.67	Yes				
Gilsonite	900	\$ 1,465.71	Yes				
Cement Scratchers Cable Type, 5 1/2"	12	\$ 912.00	Yes				
5 1/2" Turbolizer	12	\$ 755.66	Yes				
Bulk Truck Mat-Material Service Charge	205	\$ 445.14	No				
Mud Clear	500	\$ 401.71	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 332.23	Yes				
Latch Down Plug & Baffle, 5 1/2"	1	\$ 243.20	Yes				
Salt (Fine)	16	\$ 242.51	Yes				
Pump Truck Mileage-Job to Nearest Camp	16	\$ 173.37	No				

Invoice Terms:

Net 30

SubTotal: \$ 8,515.04
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,277.26)

SubTotal for Taxable Items:	\$ 5,783.14
SubTotal for Non-Taxable Items:	\$ 1,454.64
Total:	\$ 7,237.78
Tax:	\$ 364.34

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 7,602.12
Applied Payments:
Balance Due: \$ 7,602.12

Past Due Invoices are subject to a service charge (annual rate of 24%)
This does not include any applicable taxes unless it is listed.
©2008-2013 Straker Investments, LLC. All rights reserved.

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. 6339

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-13-13	36	15	19	Ellis	KS		5:00 pm.

Location Schoenchen 4w 1s Einto

Lease <u>Braun</u>	Well No. <u>1-36</u>	Owner
--------------------	----------------------	-------

Contractor <u>Martin #2</u>	To Quality Oilwell Cementing, Inc.
-----------------------------	------------------------------------

Type Job <u>Production String</u>	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
-----------------------------------	--

Hole Size <u>7 7/8</u>	T.D. <u>3660</u>	Charge To <u>Martin Drilling</u>
------------------------	------------------	----------------------------------

Csg. <u>5 1/2</u>	Depth <u>3656</u>	Street
-------------------	-------------------	--------

Tbg. Size	Depth	City	State
-----------	-------	------	-------

Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
------	-------	--

Cement Left in Csg. <u>16.43</u>	Shoe Joint <u>16.43</u>	Cement Amount Ordered <u>1800m 10% Salt 5% G. Limestone</u>
----------------------------------	-------------------------	---

Meas Line	Displace <u>86 1/2 BBL</u>	<u>500 gal mud Clear-48</u>
-----------	----------------------------	-----------------------------

EQUIPMENT

Pumptrk <u>9</u>	No.	Cement Helper <u>Coalg</u>	Common <u>180</u>
Bulktrk	No.	Driver <u>Coalg</u>	Poz. Mix
Bulktrk <u>1</u>	No.	Driver <u>Heath</u>	Gel.
		Driver	Calcium

JOB SERVICES & REMARKS

Remarks: <u>BRAUN-1-36</u>	Hulls
----------------------------	-------

Rat Hole <u>30SK</u>	Salt <u>16</u>
----------------------	----------------

Mouse Hole <u>15SK</u>	Flowseal
------------------------	----------

Centralizers	Kol-Seal <u>900#</u>
--------------	----------------------

Baskets	Mud CLR 48 <u>500</u>
---------	-----------------------

D/V or Port Collar	CFL-117 or CD110 CAF 38
--------------------	-------------------------

<u>5' on bottom. Insert @ 3639.57.</u>	Sand
--	------

<u>Est. Circulation. Pump 500 gal</u>	Handling <u>205</u>
---------------------------------------	---------------------

<u>Mud Clear & 10BL water spacer.</u>	Mileage
---	---------

<u>Plug Rathole & Mouse hole. Cement</u>	FLOAT EQUIPMENT
--	------------------------

<u>5 1/2 with 135SK - Clear lines</u>	Guide Shoe <u>5 1/2</u>
---------------------------------------	-------------------------

<u>Displace. Plug. Plug landed @</u>	Centralizer <u>12 Turbulizers</u>
--------------------------------------	-----------------------------------

<u>2000# Held. Release Pressure</u>	Baskets <u>12 Recip. Scratchers</u>
-------------------------------------	-------------------------------------

<u>Dry.</u>	AFU Inserts
-------------	-------------

	Float Shoe <u>1</u>
--	---------------------

	Latch Down <u>1</u>
--	---------------------

Pumptrk Charge <u>prod long string</u>	Tax
--	-----

Mileage <u>16</u>	Discount
-------------------	----------

X Signature

Mark Polson

Total Charge