



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1149092
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: _____



1149092

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

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

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

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

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

June 21, 2013

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

Re: ACO1
API 15-101-22424-00-00
Gough-Bentley 1-5
SE/4 Sec.05-16S-27W
Lane 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 Gough Bentley #1-5 1955' FSL 1871' FEL Sec. 5-T16S-R27W 2611' KB	Hellar Drlg Co Inc Christian ChurchOWWO#1 990' FSL 1650' FWL Sec. 5-T16S-R27W 2570' KB
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Formations	Sample Tops	Datum	Ref	Log tops	Datum	Ref	Log Tops	Datum
Anhydrite	2039	+572	-3	2034	+577	+2	1995	+575
B/Anhydrite	2066	+545	+6	2070	+541	+2	2031	+539
Topeka	3603	-992	+5	3606	-995	+2	3567	-997
Heebner	3852	-1231	+6	3845	-1224	+13	3807	-1237
Lansing	3885	-1274	+5	3884	-1273	+6	3849	-1279
Stark	4128	-1517	+11	4130	-1519	+9	4098	-1528
Pawnee	4289	-1678	+8	4284	-1673	+13	4256	-1686
Mississippian	4490	-1879	+35	4489	-1878	+36	4484	-1914
RTD	4590						4550	
LTD				4594				



DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS 67202

ATTN: Kent Crisler / Jarci

Gough-Bentley #1-5

5-16s-27w Lane,KS

Start Date: 2013.03.03 @ 19:28:00

End Date: 2013.03.04 @ 02:49:54

Job Ticket #: 49785 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.11 @ 13:37:49



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

5-16s-27w Lane, KS

250 N. Water Ste 300
Wichita KS 67202

Gough-Bentley #1-5

ATTN: Kent Crisler / Jarci

Job Ticket: 49785

DST#: 1

Test Start: 2013.03.03 @ 19:28:00

GENERAL INFORMATION:

Formation: **LKC "H-1"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:42:40

Time Test Ended: 02:49:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 58

Interval: 4032.00 ft (KB) To 4094.00 ft (KB) (TVD)

Reference Elevations: 2611.00 ft (KB)

Total Depth: 4094.00 ft (KB) (TVD)

2600.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 26.81 psig @ 4033.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.03

End Date:

2013.03.04

Last Calib.: 2013.03.04

Start Time: 19:28:00

End Time:

02:49:54

Time On Btm: 2013.03.03 @ 21:42:25

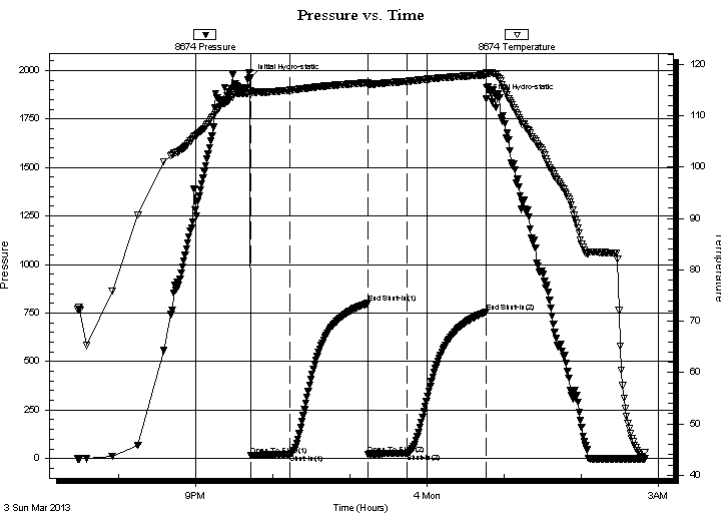
Time Off Btm: 2013.03.04 @ 00:46:24

TEST COMMENT: IF- Weak Surface Blow 1/2"

IS- No Blow

FF- No Blow

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1960.83	114.92	Initial Hydro-static
1	16.74	114.11	Open To Flow (1)
31	21.48	114.99	Shut-In(1)
92	800.40	116.47	End Shut-In(1)
92	23.42	116.07	Open To Flow (2)
123	26.81	116.72	Shut-In(2)
184	755.38	117.98	End Shut-In(2)
184	1854.88	118.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% m with a Skim of Oil on Top	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

5-16s-27w Lane,KS

250 N. Water Ste 300
Wichita KS 67202

Gough-Bentley #1-5

Job Ticket: 49785

DST#: 1

ATTN: Kent Crisler / Jarci

Test Start: 2013.03.03 @ 19:28:00

Tool Information

Drill Pipe:	Length: 3769.00 ft	Diameter: 3.80 inches	Volume: 52.87 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 267.00 ft	Diameter: 2.25 inches	Volume: 1.31 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 54.18 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4032.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	90.00 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			4005.00	
Shut In Tool	5.00			4010.00	
Hydraulic tool	5.00			4015.00	
Jars	5.00			4020.00	
Safety Joint	3.00			4023.00	
Packer	5.00			4028.00	28.00 Bottom Of Top Packer
Packer	4.00			4032.00	
Stubb	1.00			4033.00	
Recorder	0.00	8355	Outside	4033.00	
Recorder	0.00	8674	Inside	4033.00	
Perforations	20.00			4053.00	
Change Over Sub	1.00			4054.00	
Drill Pipe	31.00			4085.00	
Change Over Sub	1.00			4086.00	
Perforations	5.00			4091.00	
Bullnose	3.00			4094.00	62.00 Bottom Packers & Anchor
Total Tool Length:	90.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

5-16s-27w Lane,KS

250 N. Water Ste 300
Wichita KS 67202

Gough-Bentley #1-5

Job Ticket: 49785

DST#: 1

ATTN: Kent Crisler / Jarci

Test Start: 2013.03.03 @ 19:28:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% m with a Skim of Oil on Top	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:

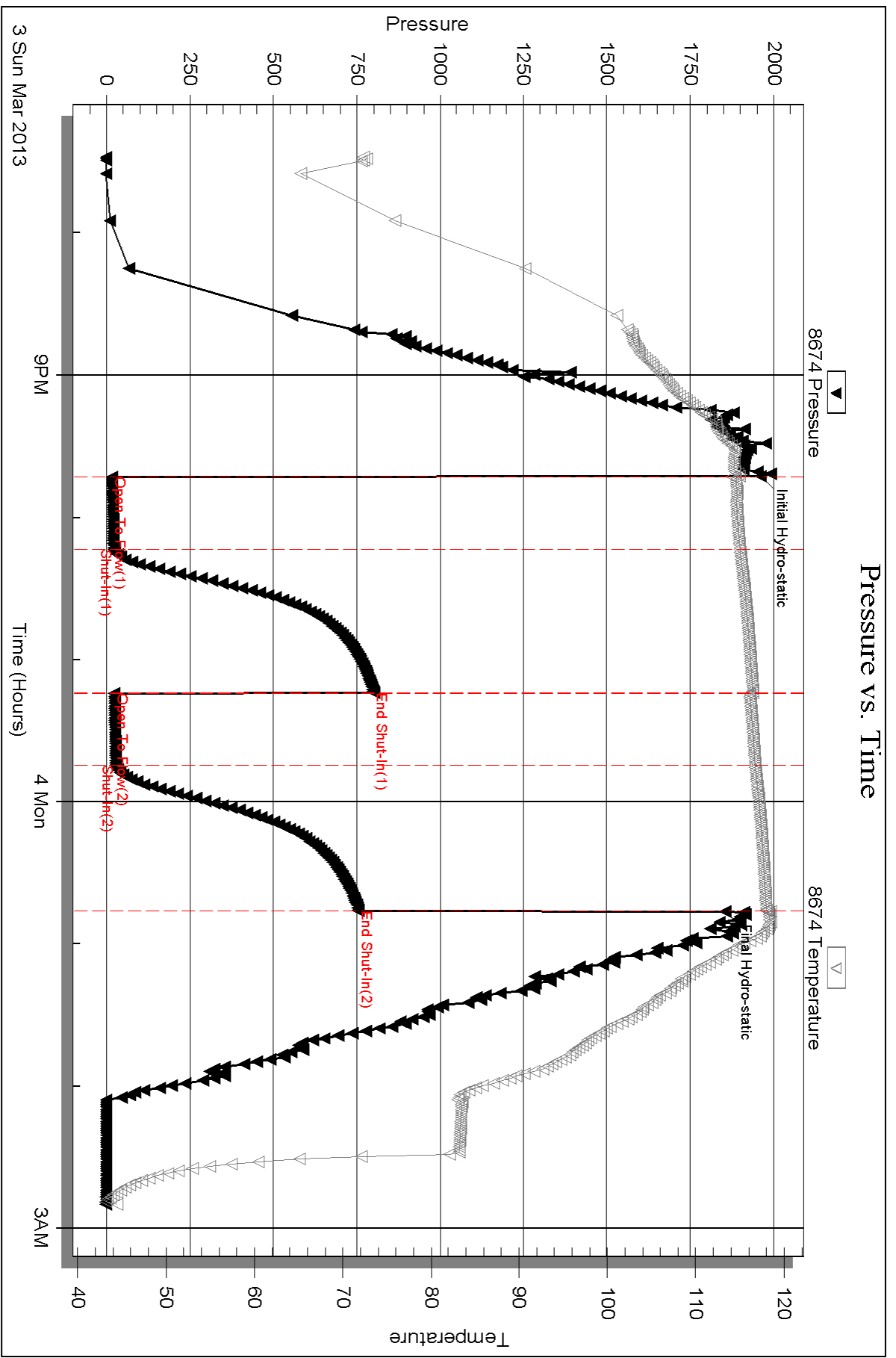
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Inside

Murfin Drilling Co. Inc

Gough-Bentley #1-5

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 49785

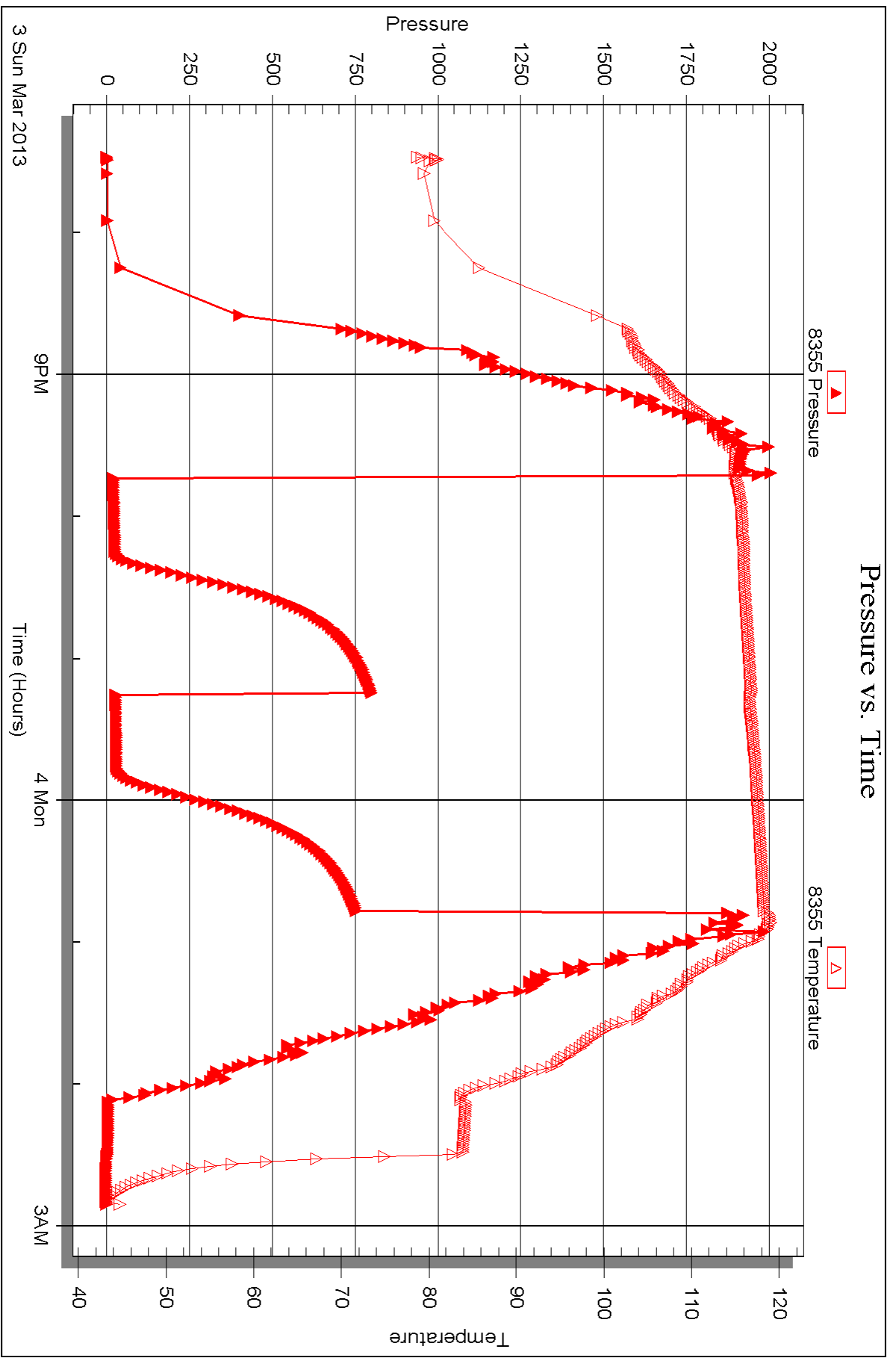
Printed: 2013.03.11 @ 13:37:52

Serial #: 8355

Outside Murfin Drilling Co. Inc

Gough-Bentley #1-5

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 49785

Printed: 2013.03.11 @ 13:37:52



DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS 67202

ATTN: Kent Crisler / Jarci

Gough-Bentley #1-5

5-16s-27w Lane,KS

Start Date: 2013.03.04 @ 10:48:00

End Date: 2013.03.04 @ 17:56:39

Job Ticket #: 49786 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.11 @ 13:37:07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

5-16s-27w Lane, KS

250 N. Water Ste 300
Wichita KS 67202

Gough-Bentley #1-5

ATTN: Kent Crisler / Jarci

Job Ticket: 49786

DST#: 2

Test Start: 2013.03.04 @ 10:48:00

GENERAL INFORMATION:

Formation: **LKC " J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:39:25

Time Test Ended: 17:56:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4096.00 ft (KB) To 4126.00 ft (KB) (TVD)

Reference Elevations: 2611.00 ft (KB)

Total Depth: 4126.00 ft (KB) (TVD)

2600.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 18.90 psig @ 4098.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.04

End Date:

2013.03.04

Last Calib.:

2013.03.04

Start Time: 10:48:00

End Time:

17:56:39

Time On Btm:

2013.03.04 @ 12:39:10

Time Off Btm:

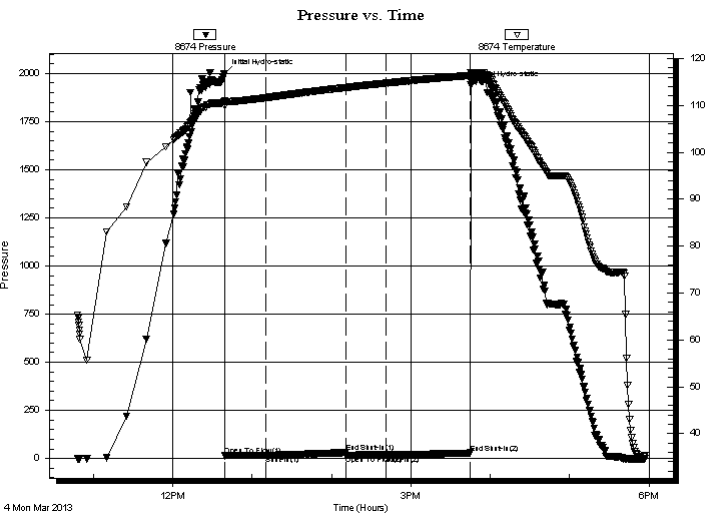
2013.03.04 @ 15:45:09

TEST COMMENT: IF- Weak Surface Blow

FF- No Blow

FF- No Blow

FSI- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1999.93	111.03	Initial Hydro-static
1	14.33	109.91	Open To Flow (1)
32	17.17	111.63	Shut-In(1)
92	31.16	113.80	End Shut-In(1)
92	17.95	113.80	Open To Flow (2)
123	18.90	114.74	Shut-In(2)
186	28.67	116.37	End Shut-In(2)
186	1939.43	117.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% m with a few Oil Spots	0.02

* 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

5-16s-27w Lane,KS

250 N. Water Ste 300
Wichita KS 67202

Gough-Bentley #1-5

Job Ticket: 49786

DST#: 2

ATTN: Kent Crisler / Jarci

Test Start: 2013.03.04 @ 10:48:00

Tool Information

Drill Pipe:	Length: 3831.00 ft	Diameter: 3.80 inches	Volume: 53.74 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 34000.00 lb
Drill Collar:	Length: 267.00 ft	Diameter: 2.25 inches	Volume: 1.31 bbl	Weight to Pull Loose: 20000.00 lb
			<u>Total Volume: 55.05 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4096.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 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			4069.00	
Shut In Tool	5.00			4074.00	
Hydraulic tool	5.00			4079.00	
Jars	5.00			4084.00	
Safety Joint	3.00			4087.00	
Packer	5.00			4092.00	28.00 Bottom Of Top Packer
Packer	4.00			4096.00	
Stubb	1.00			4097.00	
Perforations	1.00			4098.00	
Recorder	0.00	8355	Outside	4098.00	
Recorder	0.00	8674	Inside	4098.00	
Perforations	25.00			4123.00	
Bullnose	3.00			4126.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

5-16s-27w Lane,KS

250 N. Water Ste 300
Wichita KS 67202

Gough-Bentley #1-5

Job Ticket: 49786

DST#: 2

ATTN: Kent Crisler / Jarci

Test Start: 2013.03.04 @ 10:48:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%m with a few Oil Spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8674

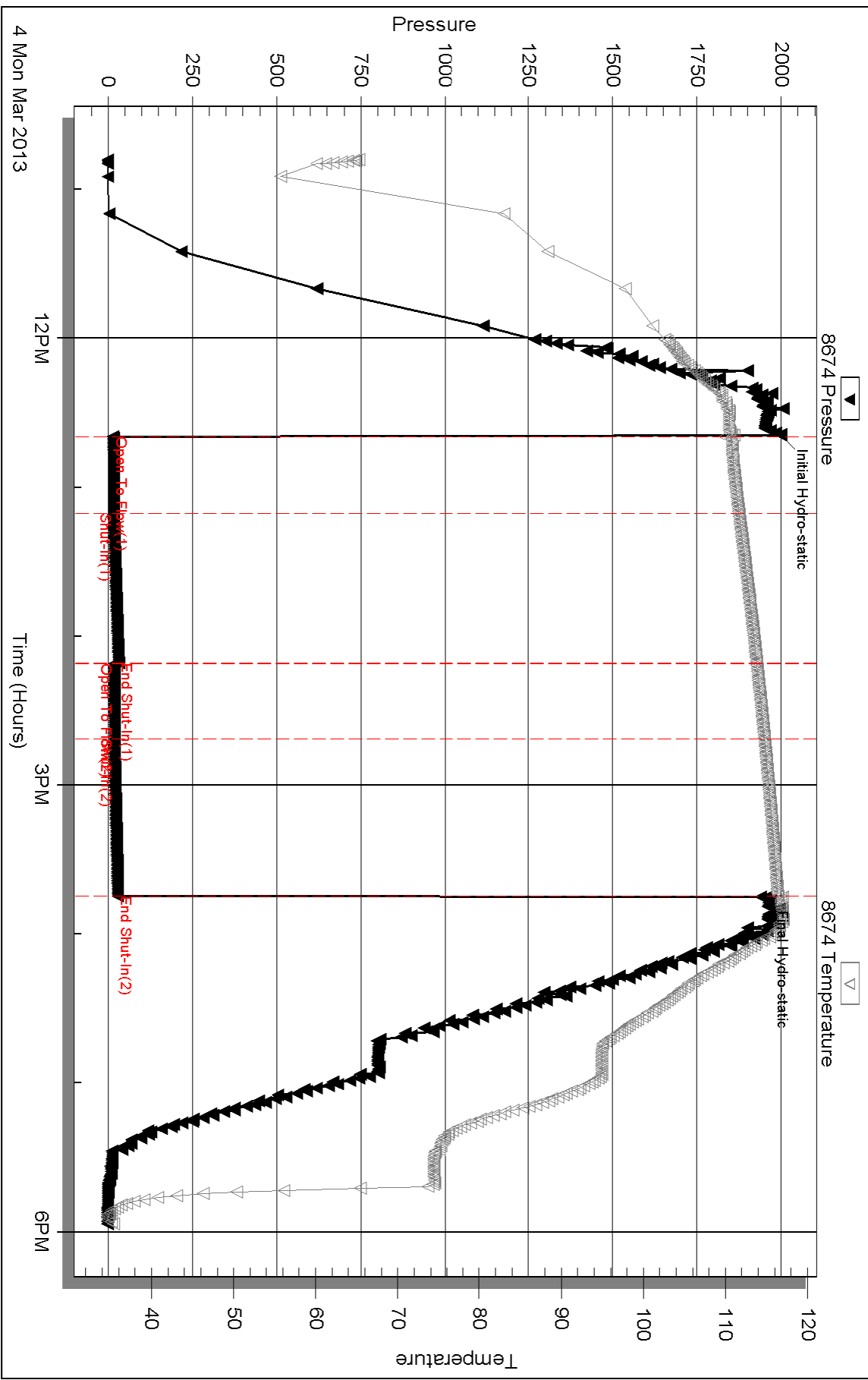
Inside

Murfin Drilling Co. Inc

Gough-Bentley #1-5

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49786

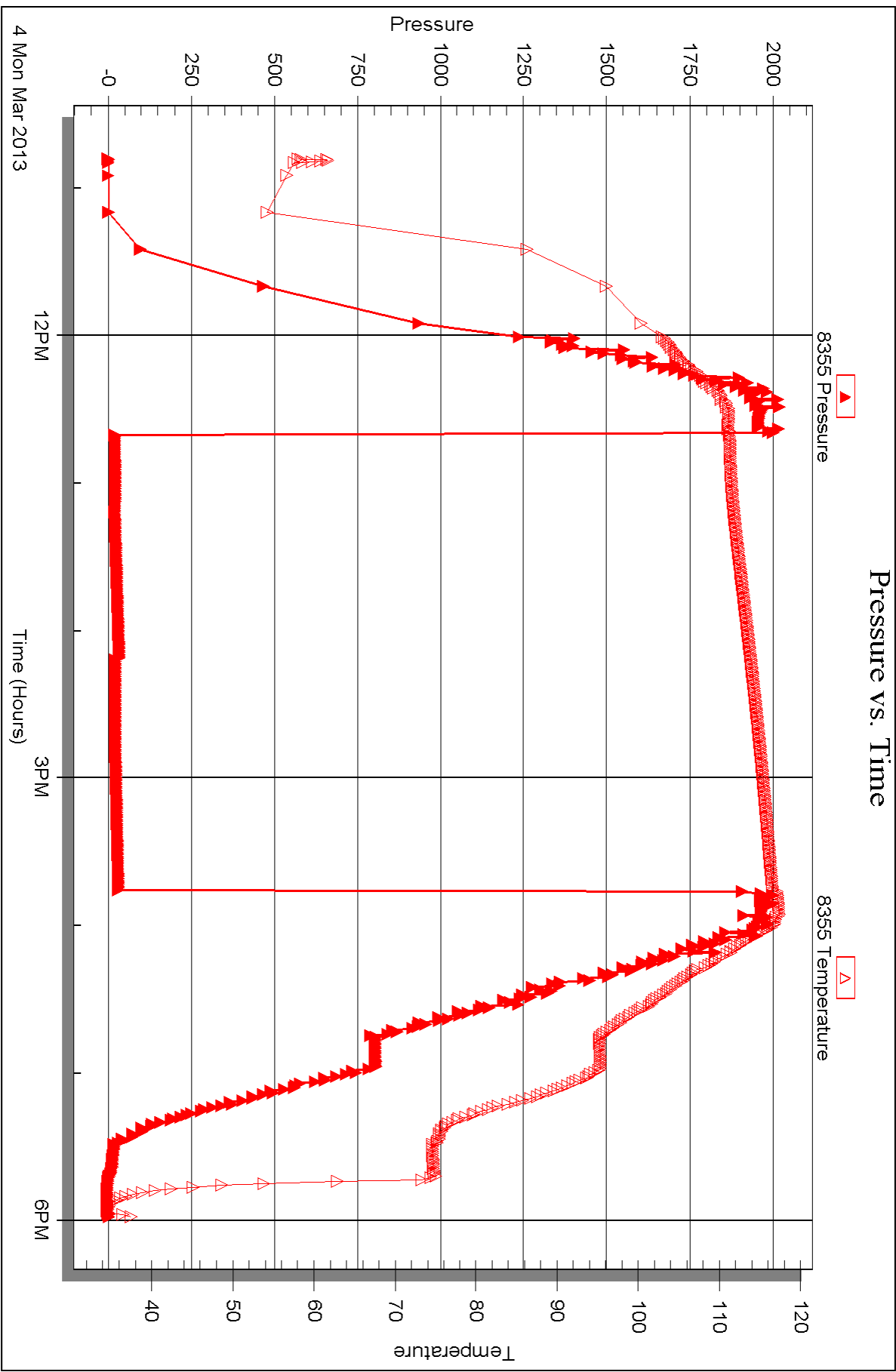
Printed: 2013.03.11 @ 13:37:10

Serial #: 8355

Outside Murfin Drilling Co. Inc

Gough-Bentley #1-5

DST Test Number: 2





DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS 67202

ATTN: Kent Crisler / Jarci

Gough-Bentley #1-5

5-16s-27w Lane,KS

Start Date: 2013.03.05 @ 01:50:00

End Date: 2013.03.05 @ 10:09:09

Job Ticket #: 49787 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.11 @ 13:36:32

Murfin Drilling Co. Inc
5-16s-27w Lane,KS
Gough-Bentley #1-5
DST # 3
LKC " K "
2013.03.05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

5-16s-27w Lane, KS

250 N. Water Ste 300
Wichita KS 67202

Gough-Bentley #1-5

ATTN: Kent Crisler / Jarci

Job Ticket: 49787

DST#: 3

Test Start: 2013.03.05 @ 01:50:00

GENERAL INFORMATION:

Formation: **LKC " K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:41:55

Time Test Ended: 10:09:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4124.00 ft (KB) To 4162.00 ft (KB) (TVD)

Reference Elevations: 2611.00 ft (KB)

Total Depth: 4162.00 ft (KB) (TVD)

2600.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 191.60 psig @ 4126.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.05

End Date:

2013.03.05

Last Calib.:

2013.03.05

Start Time: 01:50:00

End Time:

10:09:09

Time On Btm:

2013.03.05 @ 03:41:40

Time Off Btm:

2013.03.05 @ 07:48:39

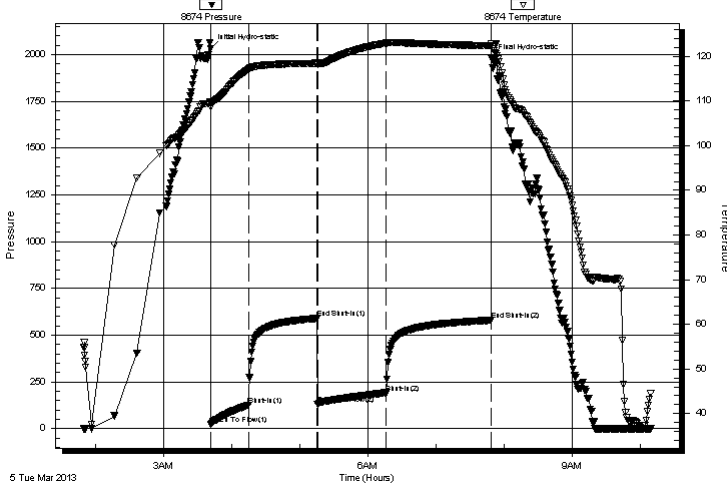
TEST COMMENT: IF- Surface Blow Built to 9 1/4"

IS- No Blow

FF- Weak Surface Blow Built to 3 1/2"

FS- No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2032.67	109.91	Initial Hydro-static
1	23.11	108.60	Open To Flow (1)
34	125.93	117.06	Shut-In(1)
94	589.13	118.49	End Shut-In(1)
94	131.57	118.31	Open To Flow (2)
155	191.60	122.97	Shut-In(2)
247	579.36	122.41	End Shut-In(2)
247	1981.06	122.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	MCW 8% <i>m</i> 92% <i>w</i>	1.18
126.00	MCW 25% <i>m</i> 75% <i>w</i> with Skim of Oil on	1.52
10.00	GOWCM 2% <i>g</i> 5% <i>oil</i> 28% <i>w</i> 75% <i>m</i>	0.14
0.00	53' of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

5-16s-27w Lane, KS

250 N. Water Ste 300
Wichita KS 67202

Gough-Bentley #1-5

ATTN: Kent Crisler / Jarci

Job Ticket: 49787

DST#: 3

Test Start: 2013.03.05 @ 01:50:00

GENERAL INFORMATION:

Formation: **LKC " K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:41:55

Time Test Ended: 10:09:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4124.00 ft (KB) To 4162.00 ft (KB) (TVD)

Reference Elevations: 2611.00 ft (KB)

Total Depth: 4162.00 ft (KB) (TVD)

2600.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8355 Outside

Press @ Run Depth: psig @ 4126.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.05

End Date:

2013.03.05

Last Calib.:

2013.03.05

Start Time: 01:50:05

End Time:

10:10:44

Time On Btm:

Time Off Btm:

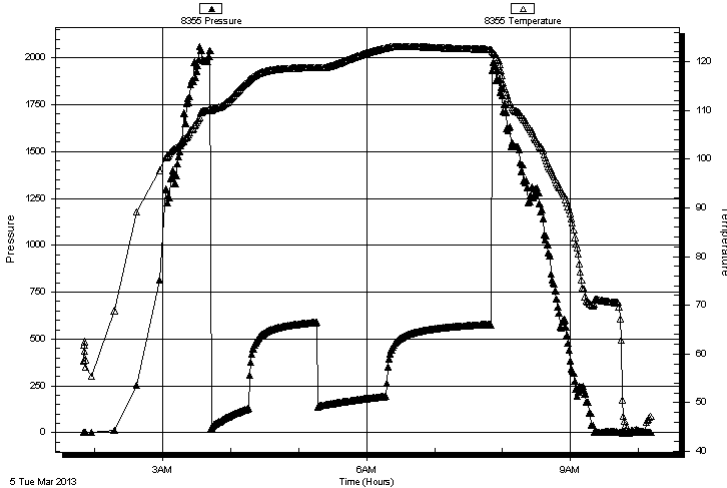
TEST COMMENT: IF- Surface Blow Built to 9 1/4"

IS- No Blow

FF- Weak Surface Blow Built to 3 1/2"

FS- No Blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
240.00	MCW 8% m 92% w	1.18
126.00	MCW 25% m 75% w with Skim of Oil on	1.52
10.00	GOWCM 2% g 5% oil 28% w 75% m	0.14
0.00	53' of GIP	0.00

	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

5-16s-27w Lane,KS

250 N. Water Ste 300
Wichita KS 67202

Gough-Bentley #1-5

Job Ticket: 49787

DST#: 3

ATTN: Kent Crisler / Jarci

Test Start: 2013.03.05 @ 01:50:00

Tool Information

Drill Pipe:	Length: 3833.00 ft	Diameter: 3.80 inches	Volume: 53.77 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 267.00 ft	Diameter: 2.25 inches	Volume: 1.31 bbl	Weight to Pull Loose: 8000.00 lb
			<u>Total Volume: 55.08 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4124.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4097.00	
Shut In Tool	5.00			4102.00	
Hydraulic tool	5.00			4107.00	
Jars	5.00			4112.00	
Safety Joint	3.00			4115.00	
Packer	5.00			4120.00	28.00 Bottom Of Top Packer
Packer	4.00			4124.00	
Stubb	1.00			4125.00	
Perforations	1.00			4126.00	
Recorder	0.00	8355	Outside	4126.00	
Recorder	0.00	8674	Inside	4126.00	
Perforations	33.00			4159.00	
Bullnose	3.00			4162.00	38.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

5-16s-27w Lane,KS

250 N. Water Ste 300
Wichita KS 67202

Gough-Bentley #1-5

Job Ticket: 49787

DST#: 3

ATTN: Kent Crisler / Jarci

Test Start: 2013.03.05 @ 01:50:00

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:

49000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
240.00	MCW 8%m 92%w	1.180
126.00	MCW 25%m 75%w with Skim of Oil on Top	1.521
10.00	GOWCM 2%g 5%oil 28%w 75%m	0.140
0.00	53' of GIP	0.000

Total Length: 376.00 ft Total Volume: 2.841 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .274 @ 38f = 49000

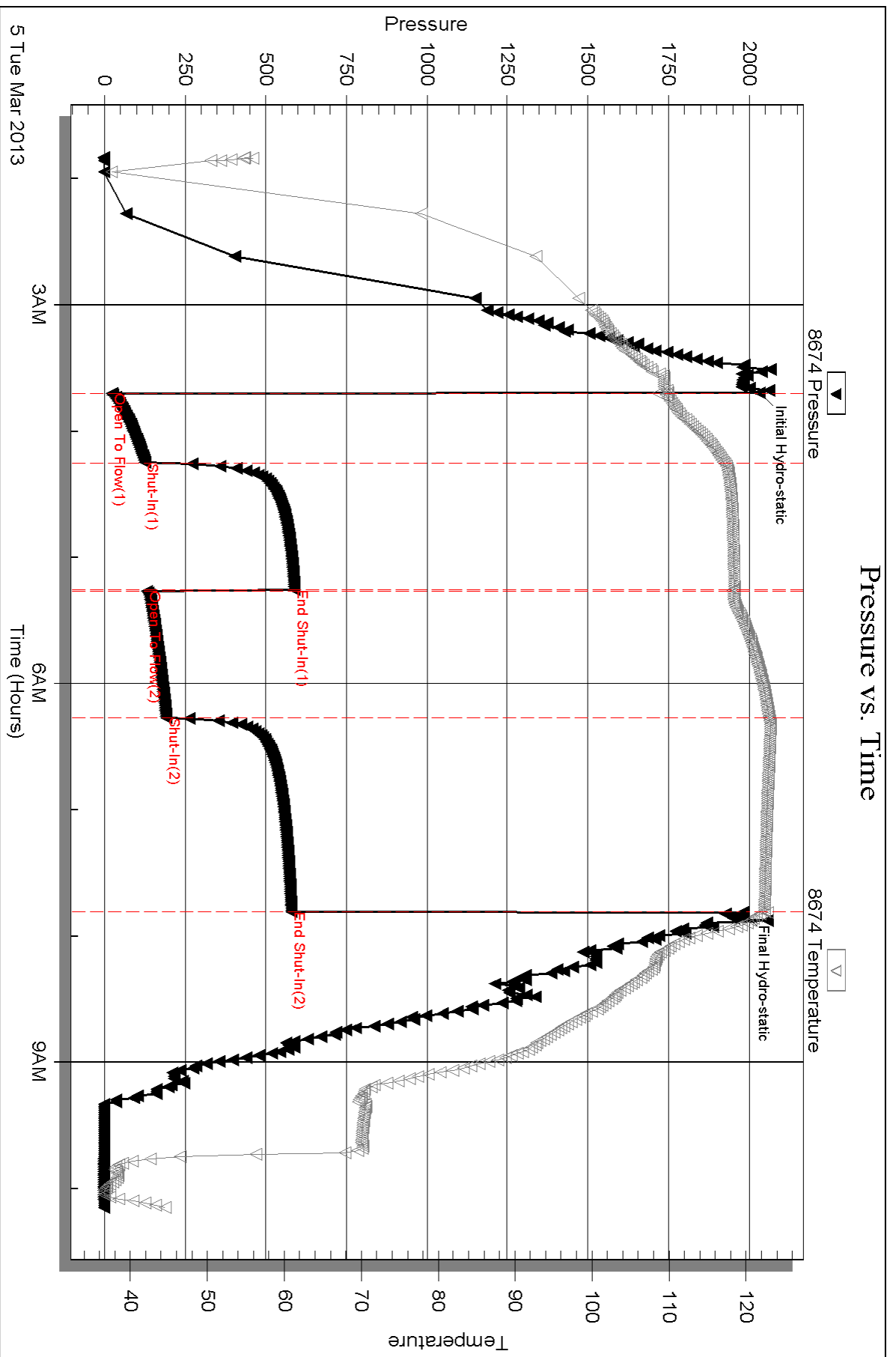
Serial #: 8674

Inside

Murfin Drilling Co. Inc

Gough-Bentley #1-5

DST Test Number: 3

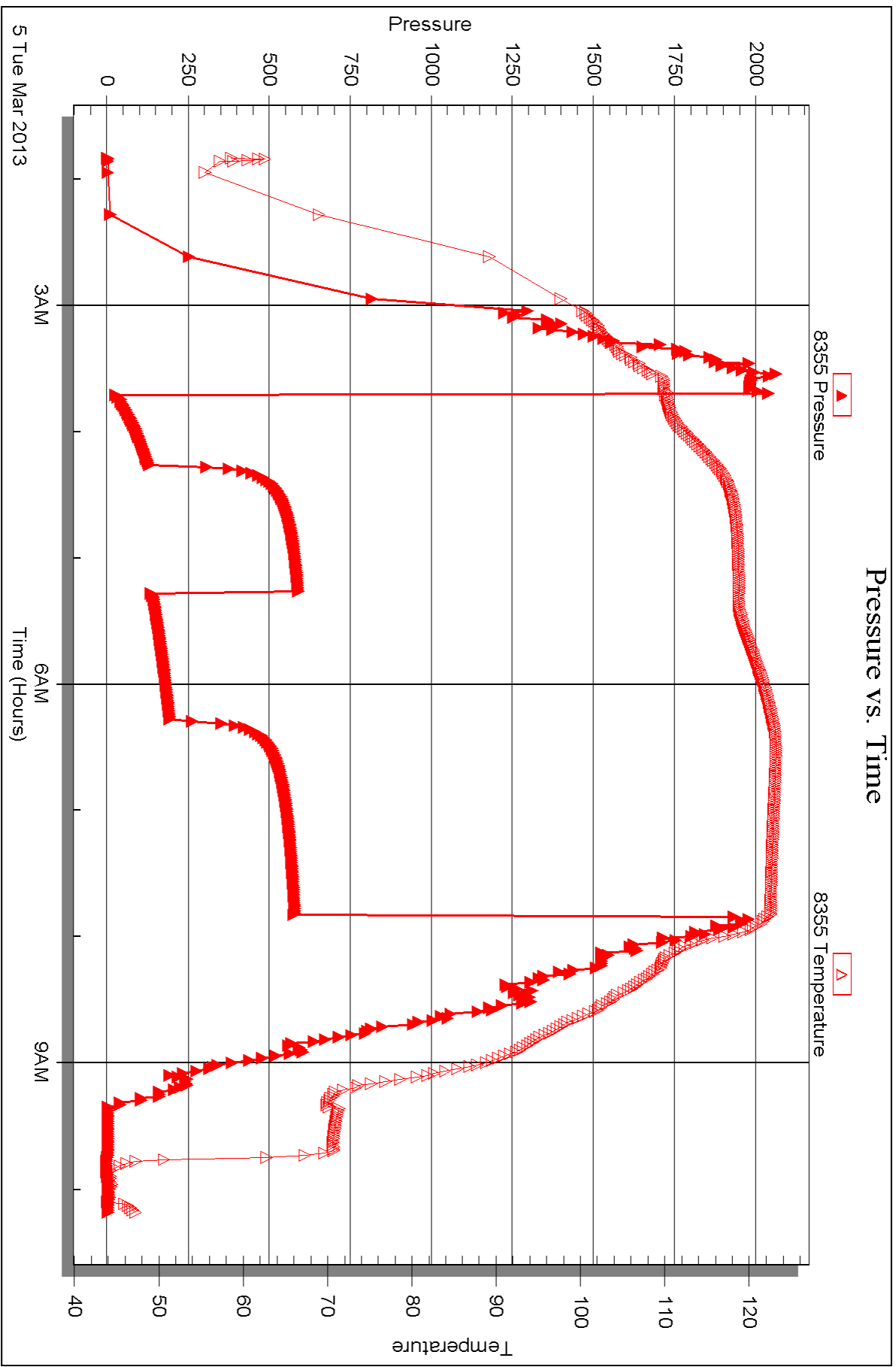


Serial #: 8355

Outside Murfin Drilling Co. Inc

Gough-Bentley #1-5

DST Test Number: 3





DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS 67202

ATTN: Kent Crisler / Jarci

Gough-Bentley #1-5

5-16s-27w Lane,KS

Start Date: 2013.03.05 @ 18:28:00

End Date: 2013.03.06 @ 01:41:24

Job Ticket #: 49788 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.11 @ 13:35:53

Murfin Drilling Co. Inc
5-16s-27w Lane,KS
Gough-Bentley #1-5
DST # 4
LKC " L "
2013.03.05



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

5-16s-27w Lane, KS

250 N. Water Ste 300
Wichita KS 67202

Gough-Bentley #1-5

Job Ticket: 49788

DST#: 4

ATTN: Kent Crisler / Jarci

Test Start: 2013.03.05 @ 18:28:00

GENERAL INFORMATION:

Formation: **LKC " L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:34:55

Time Test Ended: 01:41:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4159.00 ft (KB) To 4192.00 ft (KB) (TVD)

Reference Elevations: 2611.00 ft (KB)

Total Depth: 4192.00 ft (KB) (TVD)

2600.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 21.57 psig @ 4160.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.05

End Date:

2013.03.06

Last Calib.:

2013.03.06

Start Time:

18:28:00

End Time:

01:41:24

Time On Btm:

2013.03.05 @ 20:34:40

Time Off Btm:

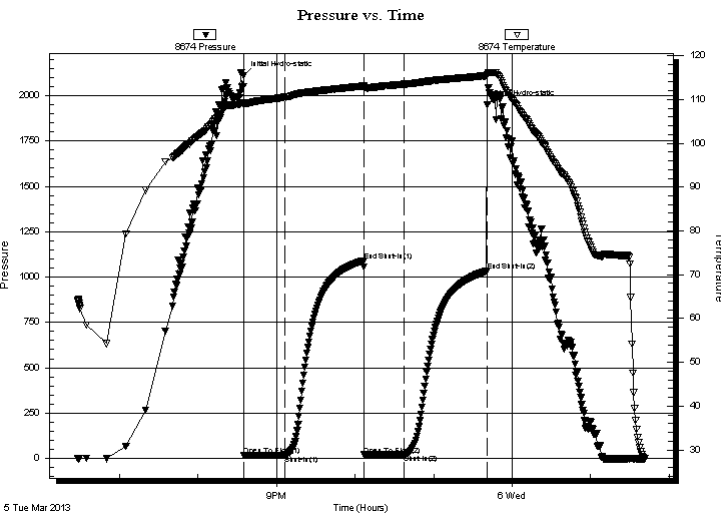
2013.03.05 @ 23:41:09

TEST COMMENT: IF- Weak Surface Blow Built to 3/4"

IS- No Blow

FF- No Blow

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.93	109.33	Initial Hydro-static
1	16.10	108.75	Open To Flow (1)
32	18.54	110.53	Shut-In(1)
92	1090.23	113.06	End Shut-In(1)
93	19.69	112.64	Open To Flow (2)
123	21.57	113.47	Shut-In(2)
186	1033.18	115.40	End Shut-In(2)
187	1949.97	115.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% m with Few Oil Spots in Tool	0.02

* 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

5-16s-27w Lane,KS

250 N. Water Ste 300
Wichita KS 67202

Gough-Bentley #1-5

Job Ticket: 49788

DST#: 4

ATTN: Kent Crisler / Jarci

Test Start: 2013.03.05 @ 18:28:00

Tool Information

Drill Pipe:	Length: 3892.00 ft	Diameter: 3.80 inches	Volume: 54.59 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 267.00 ft	Diameter: 2.25 inches	Volume: 1.31 bbl	Weight to Pull Loose: 4000.00 lb
			<u>Total Volume: 55.90 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4159.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	61.00 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			4132.00	
Shut In Tool	5.00			4137.00	
Hydraulic tool	5.00			4142.00	
Jars	5.00			4147.00	
Safety Joint	3.00			4150.00	
Packer	5.00			4155.00	28.00 Bottom Of Top Packer
Packer	4.00			4159.00	
Stubb	1.00			4160.00	
Recorder	0.00	8355	Outside	4160.00	
Recorder	0.00	8674	Inside	4160.00	
Perforations	29.00			4189.00	
Bullnose	3.00			4192.00	33.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

5-16s-27w Lane,KS

250 N. Water Ste 300
Wichita KS 67202

Gough-Bentley #1-5

Job Ticket: 49788

DST#: 4

ATTN: Kent Crisler / Jarci

Test Start: 2013.03.05 @ 18:28:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% m with Few Oil Spots in Tool	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

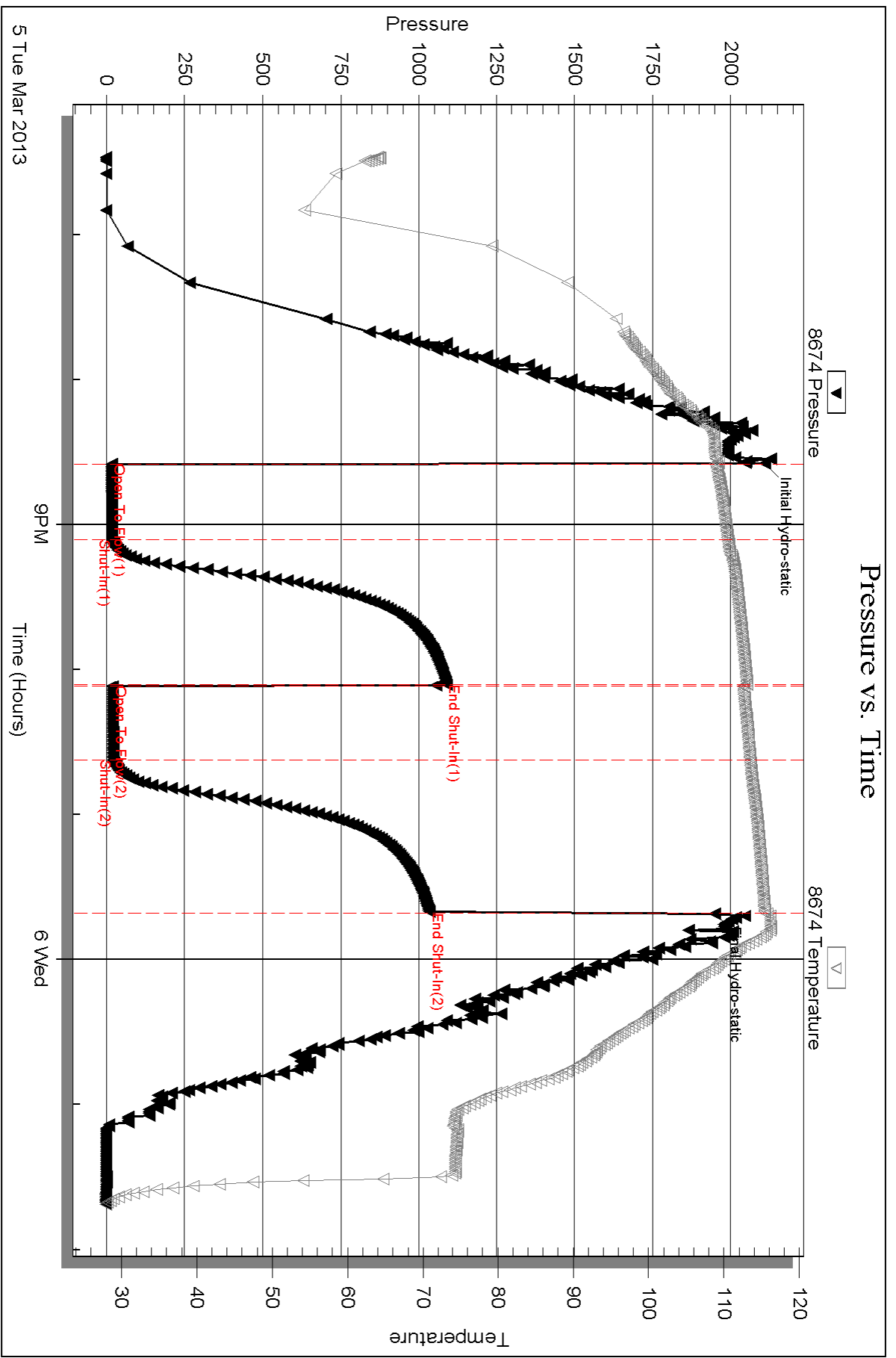
Serial #: 8674

Inside

Murfin Drilling Co. Inc

Gough-Bentley #1-5

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 49788

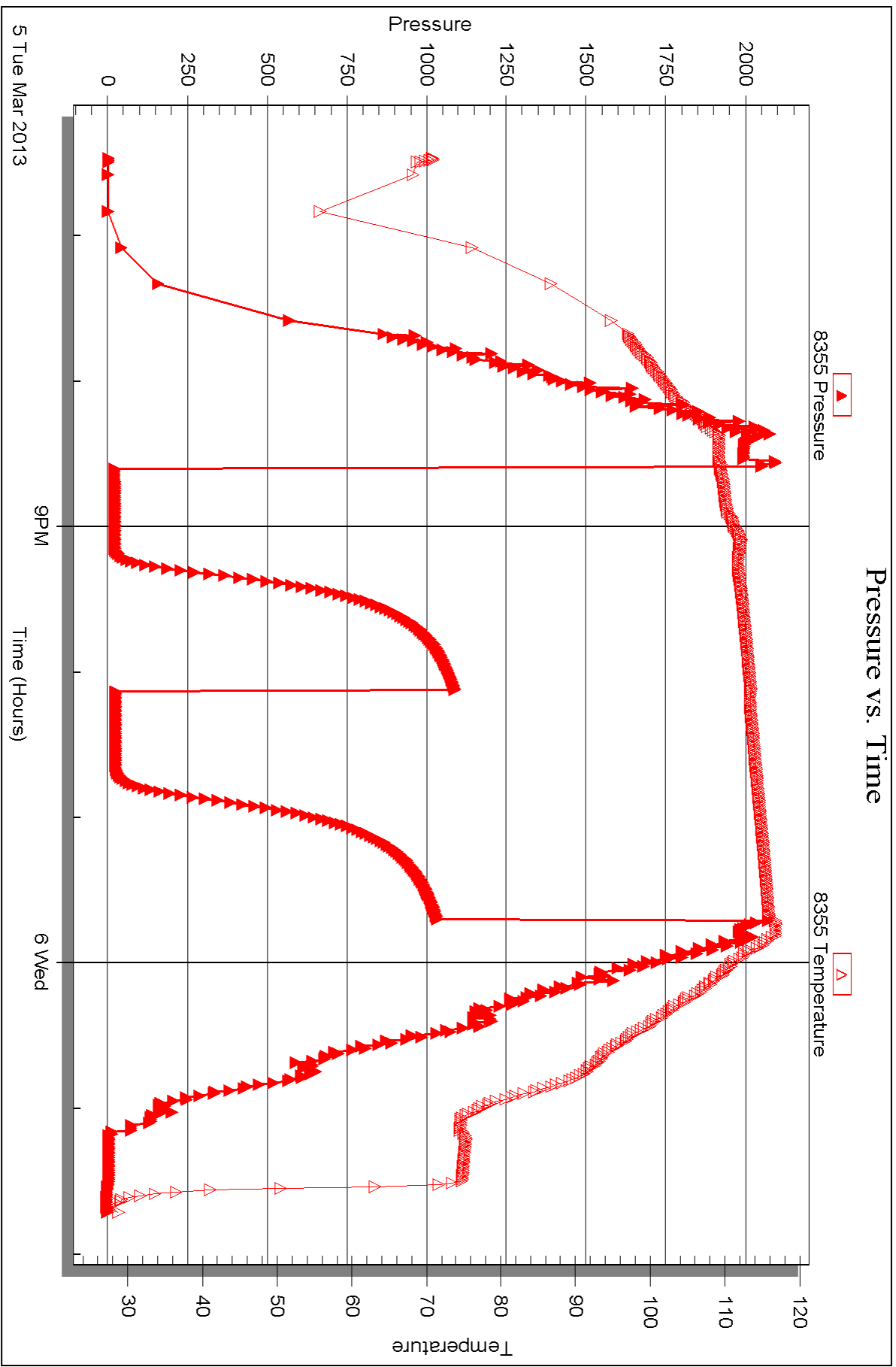
Printed: 2013.03.11 @ 13:35:56

Serial #: 8355

Outside Murfin Drilling Co. Inc

Gough-Bentley #1-5

DST Test Number: 4





DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS 67202

ATTN: Kent Crisler / Jarci

Gough-Bentley #1-5

5-16s-27w Lane,KS

Start Date: 2013.03.07 @ 00:44:05

End Date: 2013.03.07 @ 09:31:45

Job Ticket #: 49789 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.11 @ 13:35:06

Murfin Drilling Co. Inc

5-16s-27w Lane,KS

Gough-Bentley #1-5

DST # 5

Ft. Scott / Upper Ch

2013.03.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

5-16s-27w Lane, KS

250 N. Water Ste 300
Wichita KS 67202

Gough-Bentley #1-5

ATTN: Kent Crisler / Jarci

Job Ticket: 49789

DST#: 5

Test Start: 2013.03.07 @ 00:44:05

GENERAL INFORMATION:

Formation: **Ft. Scott / Upper Ch**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:47:45

Time Test Ended: 09:31:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4368.00 ft (KB) To 4425.00 ft (KB) (TVD)

Reference Elevations: 2611.00 ft (KB)

Total Depth: 4094.00 ft (KB) (TVD)

2600.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 171.47 psig @ 4369.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.07

End Date:

2013.03.07

Last Calib.:

2013.03.07

Start Time:

00:44:05

End Time:

09:31:45

Time On Btm:

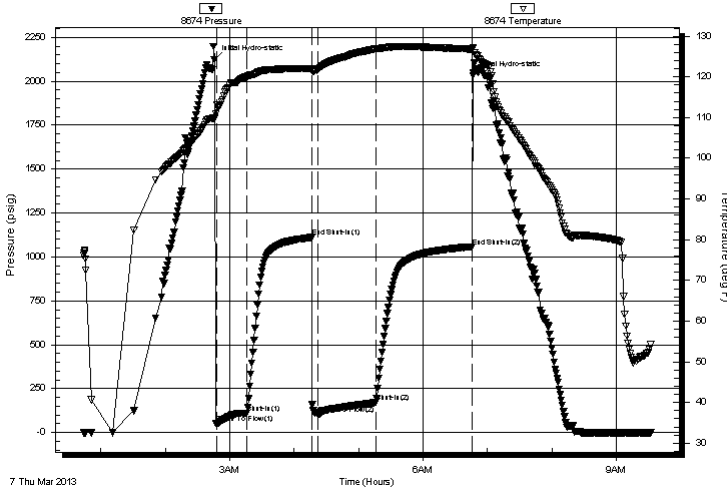
2013.03.07 @ 02:46:00

Time Off Btm:

2013.03.07 @ 06:46:29

TEST COMMENT: IF- Surface Blow Built to BOB in 3 3/4 min
IS- Weak Surface Blow in 7 min
FF- Surface Blow Built to BOB in 4 1/2 min
FS- Weak Surface Blow Built to 7"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2121.71	109.88	Initial Hydro-static
2	51.22	113.14	Open To Flow (1)
30	110.91	120.10	Shut-In(1)
91	1111.45	122.11	End Shut-In(1)
96	103.10	121.84	Open To Flow (2)
151	171.47	126.86	Shut-In(2)
240	1058.37	126.81	End Shut-In(2)
241	2032.21	127.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MGCO 22% m 25% g 53% oil	0.89
60.00	MGCO 12% m 15% g 73% oil	0.30
126.00	MOCG 16% m 24% oil 60% g	1.52
53.00	GMCO 4% g 7% m 89% oil	0.74
25.00	GO 9% g 91% oil	0.35
0.00	2946' of GIP	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. Inc

5-16s-27w Lane,KS

250 N. Water Ste 300
Wichita KS 67202

Gough-Bentley #1-5

Job Ticket: 49789

DST#: 5

ATTN: Kent Crisler / Jarci

Test Start: 2013.03.07 @ 00:44:05

Tool Information

Drill Pipe:	Length: 4085.00 ft	Diameter: 3.80 inches	Volume: 57.30 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 267.00 ft	Diameter: 2.25 inches	Volume: 1.31 bbl	Weight to Pull Loose: 6000.00 lb
			<u>Total Volume: 58.61 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4368.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	85.00 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			4341.00	
Shut In Tool	5.00			4346.00	
Hydraulic tool	5.00			4351.00	
Jars	5.00			4356.00	
Safety Joint	3.00			4359.00	
Packer	5.00			4364.00	28.00 Bottom Of Top Packer
Packer	4.00			4368.00	
Stubb	1.00			4369.00	
Recorder	0.00	8355	Outside	4369.00	
Recorder	0.00	8674	Inside	4369.00	
Perforations	20.00			4389.00	
Change Over Sub	1.00			4390.00	
Drill Pipe	31.00			4421.00	
Change Over Sub	1.00			4422.00	
Bullnose	3.00			4425.00	57.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

5-16s-27w Lane,KS

250 N. Water Ste 300
Wichita KS 67202

Gough-Bentley #1-5

Job Ticket: 49789

DST#: 5

ATTN: Kent Crisler / Jarci

Test Start: 2013.03.07 @ 00:44:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	MGCO 22%m 25%g 53%oil	0.885
60.00	MGCO 12%m 15%g 73%oil	0.295
126.00	MOCG 16%m 24%oil 60%g	1.521
53.00	GMCO 4%g 7%m 89%oil	0.743
25.00	GO 9%g 91%oil	0.351
0.00	2946' of GIP	0.000

Total Length: 444.00 ft Total Volume: 3.795 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API is 33 @ 40f =35

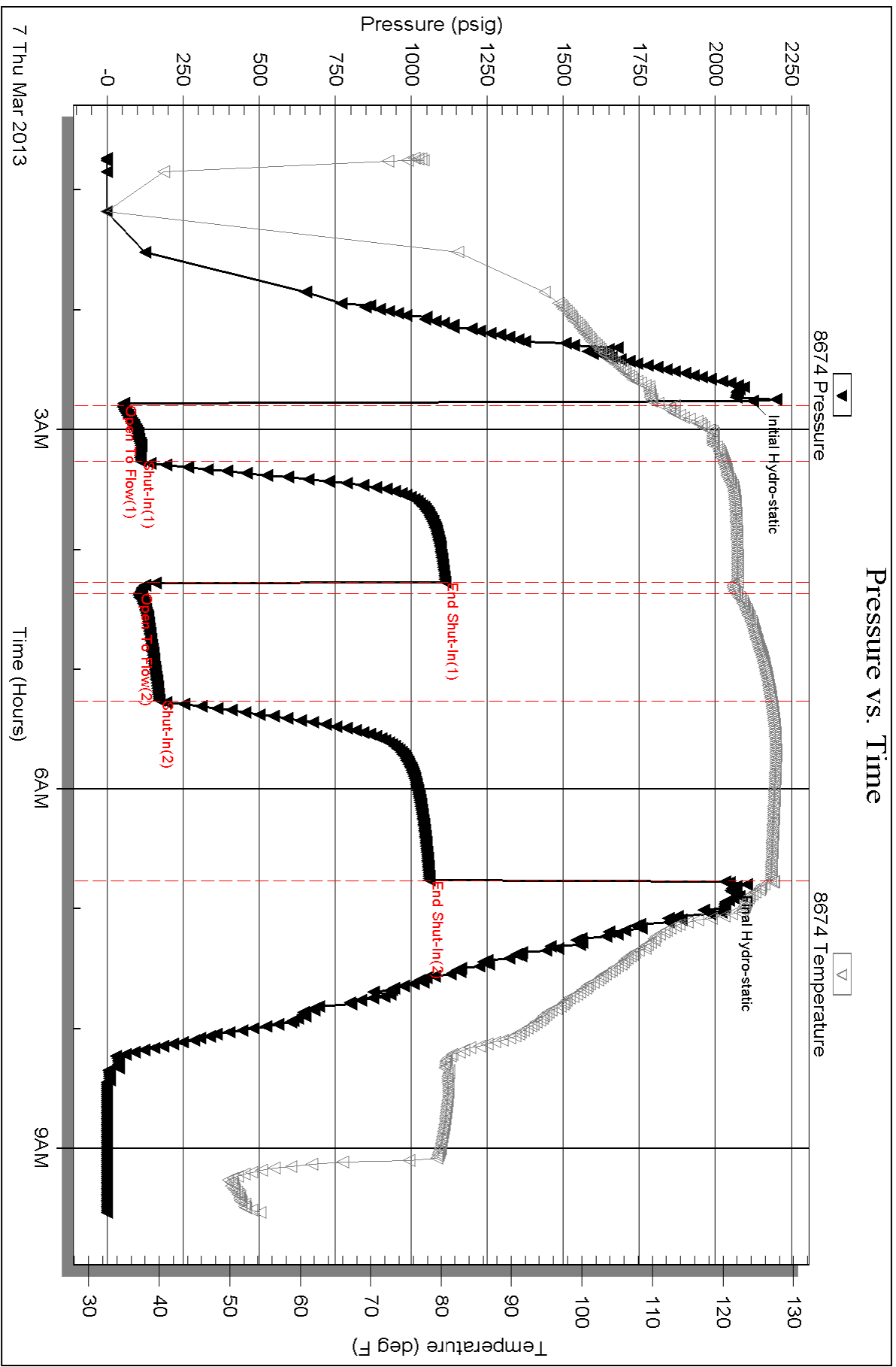
Serial #: 8674

Inside

Murfin Drilling Co. Inc

Gough-Bentley #1-5

DST Test Number: 5

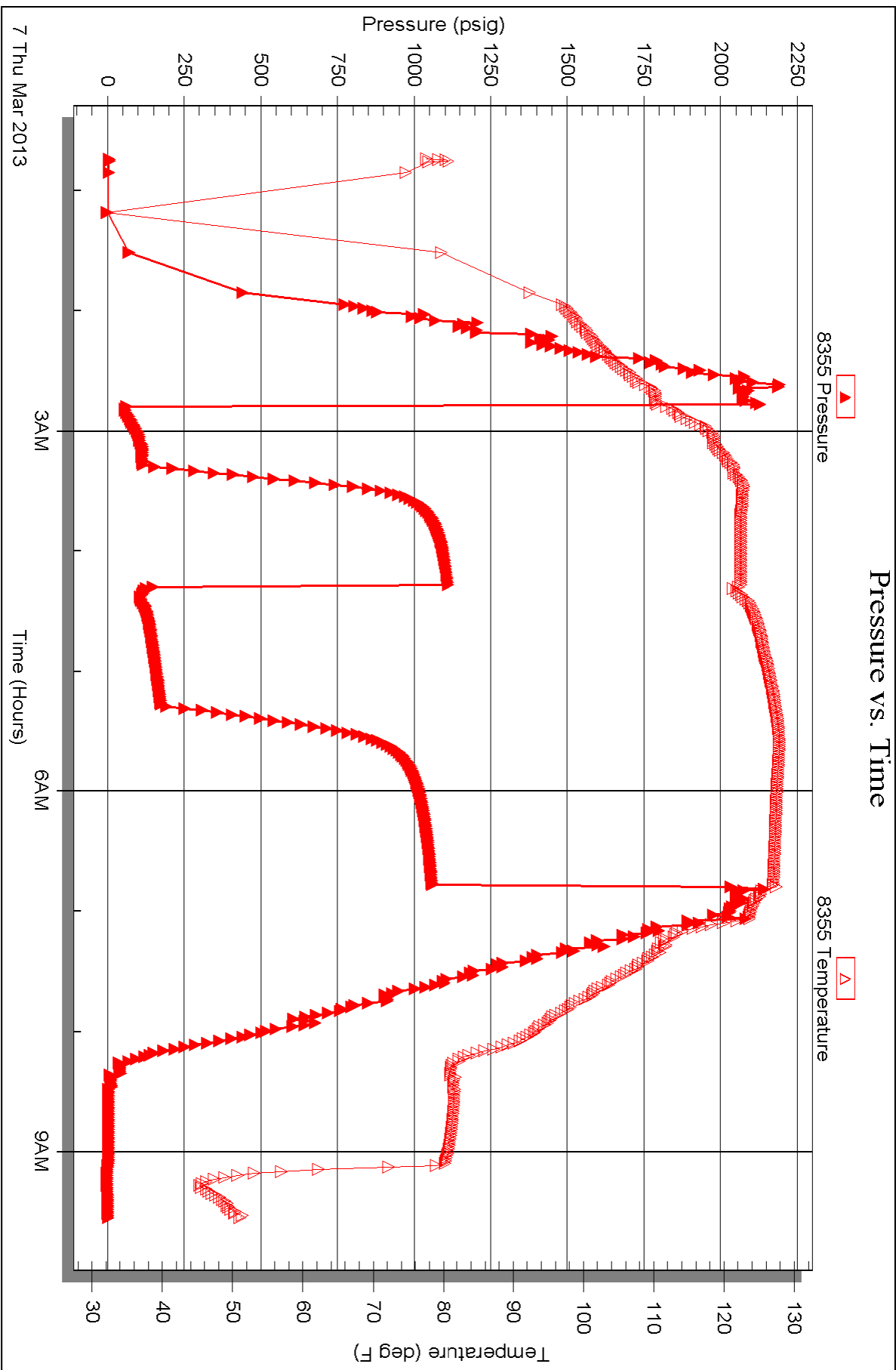


Serial #: 8355

Outside Murfin Drilling Co. Inc

Gough-Bentley #1-5

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 49785

4/10

Well Name & No. Gough - Bentley #1-5 Test No. DST #1 Date 3-3-13
 Company Murfin Drilling Co. Inc Elevation 2611 KB 2600 GL
 Address 250 N. Ste 300 Wichita KS 67202
 Co. Rep / Geo. Kent Crisler / Jarcie Crisler Rig Murfin Rig #21
 Location: Sec. 5 Twp. 16s Rge. 27w Co. Lane State KS

Interval Tested 4032-4094 Zone Tested LKC "H-I"
 Anchor Length 62 Drill Pipe Run 3769 Mud Wt. 9.2
 Top Packer Depth 4028 Drill Collars Run 267 Vis 61
 Bottom Packer Depth 4032 Wt. Pipe Run 0 WL 6.4
 Total Depth 4094 Chlorides 2100 ppm System LCM 516
 Blow Description IF-Weak Surface Blow 1/2"
TSI - No Blow
FF - No Blow
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud with Skim of Oil on Top</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1960</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>18:34</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>19:28</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>21:42</u>
(D) Initial Shut-In <u>800</u>	<input checked="" type="checkbox"/> Circ Sub <u>MC</u>	T-Pulled <u>00:46</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2:49</u>
(F) Second Final Flow <u>26</u>	<input checked="" type="checkbox"/> Mileage <u>86 R/T</u> 133.30	Comments _____
(G) Final Shut-In <u>755</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>1854</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>1708.30</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1708.30</u>	

Approved By Kent Crisler Our Representative Win M

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. **49786**

Well Name & No. Gough - Bentley #1-5 Test No. DST #2 Date 3-4-13
 Company Murfin Drilling Co. Inc Elevation 2611 KB 2600 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Kent Crister / Jarvie Crister Rig Murfin R.s 21
 Location: Sec. 5 Twp. 16s Rge. 27w Co. Lane State KS

Interval Tested 4096 - 4126 Zone Tested LKC "J"
 Anchor Length 30 Drill Pipe Run 3831 Mud Wt. 9.2
 Top Packer Depth 4092 Drill Collars Run 267 Vis 61
 Bottom Packer Depth 4096 Wt. Pipe Run 0 WL 6.4
 Total Depth 4126 Chlorides 2100 ppm System LCM 516

Blow Description IF - Weak Surface Blow
ISI - No Blow
FF - No Blow
FST - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud with a Few Oil Spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic <u>1999</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>10:08</u>
(B) First Initial Flow <u>14</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>10:48</u>
(C) First Final Flow <u>17</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>12:39</u>
(D) Initial Shut-In <u>31</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>15:45</u>
(E) Second Initial Flow <u>17</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>17:56</u>
(F) Second Final Flow <u>18</u>	<input checked="" type="checkbox"/> Mileage <u>86 RIT</u> 133.30	Comments _____
(G) Final Shut-In <u>28</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1939</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer

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

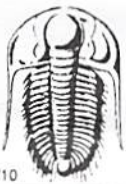
Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1708.30

Total 1708.30
 MP/DST Disc't _____

Approved By Kent Crister Our Representative William

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 49787

4/10

Well Name & No. Gough - Bentley #1-5 Test No. DST # 3 Date 3-5-13
 Company Murfin Drilling Co. Inc Elevation 2611 KB 2600 GL
 Address 250 N. Water Ste. 300 Wichita KS 67202
 Co. Rep / Geo. Kent Crisler / Jarcie Crisler Rig Murfin Rig #21
 Location: Sec. 5 Twp. 16S Rge. 27W Co. Lane State KS

Interval Tested 4124 - 4162 Zone Tested LRC "K"
 Anchor Length 38 Drill Pipe Run 3833 Mud Wt. 9.2
 Top Packer Depth 4120 Drill Collars Run 267 Vis 50
 Bottom Packer Depth 4124 Wt. Pipe Run 0 WL 6.0
 Total Depth 4162 Chlorides 2300 ppm System LCM 416

Blow Description IF - Surface Blow Built to 9 1/4"
IS - No Blow
FF - Weak Surface Blow Built to 3 1/2"
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>GOWCM</u>	<u>2</u>	<u>5</u>	<u>28</u>	<u>75</u>
<u>126</u>	<u>MCW with a skm at 0.1 on Top</u>			<u>75</u>	<u>25</u>
<u>240</u>	<u>MCW</u>			<u>92</u>	<u>8</u>
	<u>53' of GIP</u>				

Rec Total 376 BHT 118 Gravity API RW 274 @ 38 ° F Chlorides 49000 ppm

(A) Initial Hydrostatic <u>2032</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>1:50</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>2:18</u>
(C) First Final Flow <u>125</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>3:41</u>
(D) Initial Shut-In <u>589</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>7:48</u>
(E) Second Initial Flow <u>131</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:09</u>
(F) Second Final Flow <u>191</u>	<input checked="" type="checkbox"/> Mileage <u>86 RIT</u> 133.30	Comments _____
(G) Final Shut-In <u>579</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1981</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

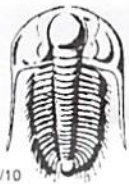
Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1708.30

Sub Total 1708.30

Approved By _____ Our Representative Will M

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **49788**

Well Name & No. Gough-Bentley #1-5 Test No. DST #4 Date 3-5-13
 Company Murfin Drilling Co Inc Elevation 2611 KB 2600 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Kent Crisler / Jarcie Crisler Rig Murfin Rig #21
 Location: Sec. 5 Twp. 16s Rge. 27w Co. Lane State KS

Interval Tested 4159-4192 Zone Tested LRC "L"
 Anchor Length 33 Drill Pipe Run 3892 Mud Wt. 9.1
 Top Packer Depth 4155 Drill Collars Run 267 Vis 51
 Bottom Packer Depth 4159 Wt. Pipe Run 0 WL 6.0
 Total Depth 4192 Chlorides 3200 ppm System LCM 416
 Blow Description IF- Weak Surface Blow Built to 34"
ISI- No Blow
FF- No Blow
FSI- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud with Few Oil Spots in Tool</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 109 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2109</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>17:42</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>18:28</u>
(C) First Final Flow <u>18</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>20:34</u>
(D) Initial Shut-In <u>1090</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>23:41</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1:41</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>86 R/T</u> 133.30	Comments _____
(G) Final Shut-In <u>1033</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1949</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Total <u>1708.30</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility	Sub Total <u>1708.30</u>

Approved By Kent Crisler Our Representative Will [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. 49789

Well Name & No. Gough-Bentley #1-5 Test No. DST #5 Date 3-6-13
 Company Murfin Drilling Co Inc Elevation 2611 KB 2600 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Kent Crister / Jarvie Crister Rig Murfin Rig #21
 Location: Sec. 5 Twp. 16s Rge. 27w Co. Lane State KS

Interval Tested 4368-4425 Zone Tested Ft. Scott / Upper Cherokee
 Anchor Length 57 Drill Pipe Run 4085 Mud Wt. 9.1
 Top Packer Depth 4364 Drill Collars Run 267 Vis 61
 Bottom Packer Depth 4368 Wt. Pipe Run 0 WL 6.0
 Total Depth 4425 Chlorides 2300 ppm System LCM 616
 Blow Description IF - Surface Blow Built to BOB in 3³/₄ min
ISI - Weak Surface Blow in 7 min
FF - Surface Blow Built to BOB in 4¹/₂ min
FSI - Weak Surface Blow Built to 7"

Rec	Feet of	%gas	%oil	%water	%mud
<u>73</u>	<u>25</u> Feet of <u>G-O</u>	<u>9</u>	<u>91</u>		
<u>53</u>	Feet of <u>MGCO</u>	<u>4</u>	<u>89</u>		<u>7</u>
<u>126</u>	Feet of <u>MOCG</u>	<u>60</u>	<u>24</u>		<u>16</u>
<u>60</u>	Feet of <u>MGCO</u>	<u>15</u>	<u>73</u>		<u>12</u>
<u>180</u>	Feet of <u>MGCO</u>	<u>25</u>	<u>53</u>		<u>22</u>

Rec Total 495 BHT _____ Gravity 35 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2121 Test 1250 T-On Location 23:34
 (B) First Initial Flow 51 Jars 250 T-Started 00:44
 (C) First Final Flow 110 Safety Joint 75 T-Open 2:47
 (D) Initial Shut-In 1111 Circ Sub NIC T-Pulled 6:46
 (E) Second Initial Flow 103 Hourly Standby T-Out 9:31
 (F) Second Final Flow 171 Mileage 86 RIT x2 Comments 2946' of GIP
 (G) Final Shut-In 1058 Sampler API is 3B @ 40T = 35
 (H) Final Hydrostatic 2032 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1841.60
 Accessibility MP/DST Disc't _____
 Sub Total 1841.60

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

Approved By Kent Crister Our Representative KM

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acct
Prod Lit

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 135036

Invoice Date: Feb 26, 2013

Page: 1

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

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	60061	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Feb 26, 2013	3/28/13

Quantity	Item	Description	Unit Price	Amount
175.00	MAT	Gough-Bentley #1-5		
		Class A Common	17.90	3,132.50
6.00	MAT	Chloride	64.00	384.00
183.75	SER	Cubic Feet	2.48	455.70
592.90	SER	Ton Mileage	2.60	1,541.54
1.00	SER	Surface	1,512.25	1,512.25
70.00	SER	Pump Truck Mileage	7.70	539.00
1.00	SER	Manifold Swedge Rental	275.00	275.00
70.00	SER	Light Vehicle Mileage	4.40	308.00
1.00	CEMENTER	LaRene Wentz		
1.00	OPER ASSIST	Paul Beaver		
1.00	OPER ASSIST	David Scariano		

Subtotal	8,147.99
Sales Tax	256.70
Total Invoice Amount	8,404.69
Payment/Credit Applied	
TOTAL	8,404.69

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

\$ 2,851.79 *on*

ONLY IF PAID ON OR BEFORE

Mar 23, 2013

2851.99

5552.90

Handwritten signature

ALLIED OIL & GAS SERVICES, LLC 060061

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
De Klapp

DATE <i>2-26-13</i>	SEC. <i>5</i>	TWP. <i>16</i>	RANGE <i>27</i>	CALLED OUT	ON LOCATION <i>6:00pm</i>	JOB START <i>7:00p</i>	JOB FINISH <i>7:30pm</i>
LEASE <i>Gough-Bentley</i>	WELL# <i>1-5</i>	LOCATION <i>Pandemis (Esida)</i>	COUNTY <i>Lane</i>	STATE <i>Ks</i>			
OLD OR NEW (Circle one) <i>3rd Emfo</i>							

CONTRACTOR *Merfin 21* OWNER *Same*

TYPE OF JOB *Surface*
HOLE SIZE *12 1/4"* TD. *226'*
CASING SIZE *8 7/8"* DEPTH *229'*
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT

CEMENT AMOUNT ORDERED *175 sk cement 3% oil*

COMMON *175 sk @ 17.90 3132.50*
POZMIX @
GEL @
CHLORIDE *680 @ 64.00 384.00*
ASC @

CEMENT LEFT IN CSG. *15'*
PERFS.
DISPLACEMENT *1307 bbl*

EQUIPMENT

PUMP TRUCK CEMENTER *Lakane Edwards*
431 HELPER *Paul Beaver*

BULK TRUCK DRIVER *David Scatano*
549287

BULK TRUCK DRIVER
#

HANDLING *183.75 sk @ 2.48 455.90*
MILEAGE *8.97 hrs @ 70x 2.60 1541.54*

REMARKS:
*Mix 175 sk cement
Displace with water
Cement did circulate.*

Thank you

CHARGE TO: *Merfin Drilling Co*

STREET
CITY STATE ZIP

SERVICE
DEPTH OF JOB *229'*
PUMP TRUCK CHARGE *1312.25*
EXTRA FOOTAGE @
MILEAGE *MEHO 70 @ 7.90 539.00*
MANIFOLD *swedge @ 775.00*
MFLU 70 @ 490 300.00

TOTAL *2634.25*

PLUG & FLOAT EQUIPMENT

TOTAL

SALES TAX (If Any)

TOTAL CHARGES *2,147.99*

DISCOUNT *2,751.79* IF PAID IN 30 DAYS

5296.19 Net.

PRINTED NAME *Suan Truxo*

SIGNATURE *Juan Truxo*



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Acidizing -
cc: W F
cc: L 12
cc: L 1

Invoice

DATE	INVOICE #
3/8/2013	23914

BILL TO
Murfin Drilling Co Inc P. O. Box 130 Hill City, KS 67642-0130
USED FOR <u>IC 103</u>
APPROVED <u>[Signature]</u>

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-5	Gough-Bentley	Lane	Company Tools	Oil	Development	Cement LongStri...	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				50	Miles	6.00	300.00
578D-L	Pump Charge - Long String - 4589 Feet				1	Job	1,500.00	1,500.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00T
290	D-Air				3	Gallon(s)	35.00	105.00T
403-5	5 1/2" Cement Basket				1	Each	250.00	250.00T
404-5	5 1/2" Port Collar				1	Each	2,400.00	2,400.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	350.00	350.00T
409-5	5 1/2" Turbolizer				10	Each	90.00	900.00T
413-5	5 1/2" Roto Wall Scratcher				15	Each	40.00	600.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				225	Sacks	13.50	3,037.50T
276	Flocele				57	Lb(s)	2.00	114.00T
283	Salt				1,125	Lb(s)	0.20	225.00T
284	Calseal				11	Sack(s)	35.00	385.00T
285	CFR-1				159	Lb(s)	4.00	636.00T
581D	Service Charge Cement				225	Sacks	2.00	450.00
583D	Drayage				588.73	Ton Miles	1.00	588.73
	Subtotal							13,641.23
	Sales Tax Lane County						7.30%	788.58

We Appreciate Your Business!

Total \$14,429.81



Services, Inc.

CHARGE TO: Merlin Dry Co.
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET No 23914

PAGE 1 OF 2

SERVICE LOCATIONS: 1. Kings, KS

WELL/PROJECT NO.: _____ LEASE: _____ COUNTY/PARISH: _____ DATE: 3-8-13 OWNER: _____

TICKET TYPE: 1-5 CONTRACTOR: Booth Bentley RIG NAME/NO.: Lane ORDER NO.: _____

SERVICE SALES

WELL TYPE: 2 WELL CATEGORY: 21 JOB PURPOSE: Drill

WELL PERMIT NO.: _____ WELL LOCATION: _____

REFERRAL LOCATION: _____ INVOICE INSTRUCTIONS: _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT	DF	DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
575		1			MILEAGE #113	50	Mi			600	300.00
578		1			Young Charge - cent 18g strings	1	ea	4500	ft	1500.00	1500.00
281		1			Ground Rod	4	ea			25.00	100.00
280		1			Fls chke-21	500	gal			2.50	1250.00
290		1			D-Air	3	ea			35.00	105.00
403		1			Concrete Basket	1	ea	5 1/2	in	250.00	250.00
404		1			Port 3/4 in	1	ea	5 1/4	in	240.00	240.00
416		1			Latex Drain Plug + Beaffle	1	ea	5 1/2	in	250.00	250.00
407		1			Insert Float Valve w/ 1/2" leg	1	ea	5 1/4	in	350.00	350.00
410		1			Turbolizers	10	ea	5 1/2	in	90.00	900.00
413		1			Rob Well Screeners	15	ea	5 ft		20.00	300.00
419		1			Rotating Head Rental	1	hr	5 1/2	hr	200.00	200.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: 3-8-13 TIME SIGNED: 1800

DATE SIGNED: _____ TIME SIGNED: _____

SWIFT OPERATOR: Van Sommer APPROVAL: _____

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	8205.00
TOTAL	14,429.81
TAX 7.3%	788.58
Subtotal	13,641.23

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 23914

CUSTOMER *Miner Dig Co.* WELL *1.5 Gauge Bore* DATE *3-8-13* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING	TIME	DESCRIPTION	WELL		DATE	UNIT PRICE	AMOUNT
					QTY	UM			
285				Spokane Cement Est 2	225	SKS		13.52	3037.50
276				Flocele	57	LBS		2.00	114.00
283				Salt	1125	LBS		2.00	225.00
284				Palmer	1058	LBS		3522	385.00
285				PTA-1	159	LBS		402	636.00
581				CEMENT	225	SKS		2.00	450.00
583				CEMENT	165	LBS		1.00	588.23

SERVICE CHARGE
MILEAGE TOTAL WEIGHT CHARGE
225 SKS
165 LBS

CUBIC FEET
TON MILES
225 SKS
165 LBS

LOADED MILES
50
CONTINUATION TOTAL
57136.23

588.73

JOB LOG

SWIFT Services, Inc.

DATE 3-8-13 PAGE NO. 7

CUSTOMER Martin Drilling Co WELL NO. 1-5 LEASE Gough-Bentley JOB TYPE Cement Lugsstring TICKET NO. 23914

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1810							On location w/FE.
	1815							Start 5 1/2" 15 #/ft casing to 4589
								Inspit float shoe w/ Aceto-fill
								L.D. Baffle - SS-22' = KB to 4567 = 108 3/4
								Cont 1-2-3-4-6-8-10-12-14 & 58
								Cont Bakt Fin evl #59.
								Port Collar #59 @ 2067' - (CIR 1/2 way)
								Drop fill up ball 5 Jts out
	2040							Tag Bottom
	2050							St. CIR / Rotate casing
	2150							Fin CIR
		5					300	Pump 15 BBI KCL Flush
		5					300	Pump 500 gal Flochok 21
		5					300	Pump 5 BBI KCL Spacer
		4					300	Start 175 sks EA-2 cont
			43				Var	Fin cont - Wash PNL
		9					400	Start Plug Disp1 (L.D Plug)
		9	85				450	Caught Lift press - slow rate
	2245	7	101				900	Plug Down
			109				1500	Hold - Release & Hold
			75					Plug RH / MH
								30 sks - 20 sk
								Wash up & Rack up
	2315							Job Complete
								Thacker
								Alan, Tom & Flint