



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita KS. 67202

ATTN: Vern Schrag

Herndon Trust # 1-14

14-18s-30w Lane,KS

Start Date: 2012.05.04 @ 17:44:00

End Date: 2012.05.05 @ 02:08:09

Job Ticket #: 45845 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.10 @ 11:27:44

Murfin Drilling Co. Inc.

14-18s-30w Lane,KS

Herndon Trust # 1-14

DST # 1

Lansing "H & I"

2012.05.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

14-18s-30w Lane, KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

ATTN: Vern Schrag

Job Ticket: 45845

DST#: 1

Test Start: 2012.05.04 @ 17:44:00

GENERAL INFORMATION:

Formation: **Lansing " H & I "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:46:55

Time Test Ended: 02:08:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 40

Interval: 4116.00 ft (KB) To 4186.00 ft (KB) (TVD)

Reference Elevations: 2856.00 ft (KB)

Total Depth: 4186.00 ft (KB) (TVD)

2851.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Inside

Press @ Run Depth: 108.09 psig @ 4117.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.04

End Date:

2012.05.05

Last Calib.: 2012.05.05

Start Time: 17:44:00

End Time:

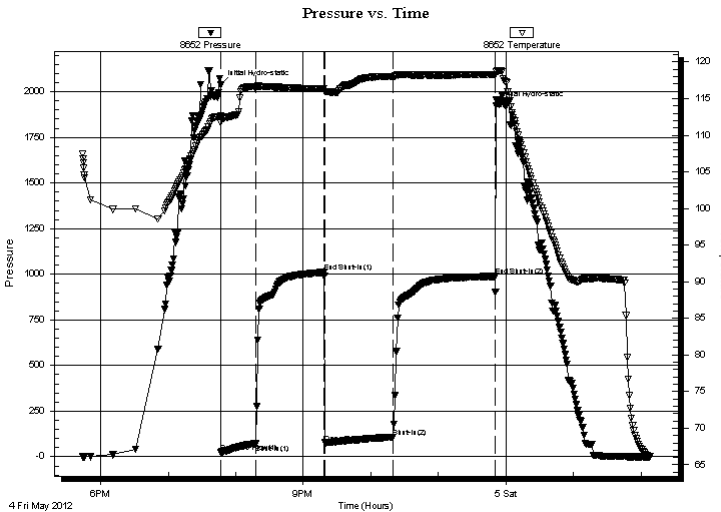
02:08:09

Time On Btm: 2012.05.04 @ 19:46:40

Time Off Btm: 2012.05.04 @ 23:51:09

TEST COMMENT: IF- Surface Blow built to 6 1/4"
IS- No Blow
FF- Weak Surface Blow in 4 min Built to 5"
FS- No Blow

PRESSURE SUMMARY



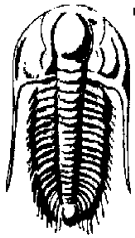
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2036.55	112.61	Initial Hydro-static
1	23.17	111.70	Open To Flow (1)
31	71.12	116.57	Shut-In(1)
92	1010.82	116.34	End Shut-In(1)
93	76.84	116.00	Open To Flow (2)
153	108.09	117.95	Shut-In(2)
244	988.30	118.28	End Shut-In(2)
245	1923.61	118.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	GO 9%g 91%oil	0.17
53.00	GOCM 5%g 10%oil 85%m	0.26
62.00	OGCM 2%oil 3%g 95%m	0.56
62.00	GWCM 3%g 14%w 83%m with Skim of 0.87	0.87
0.00	101' of GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
 250 N. Water STE 300
 Wichita KS. 67202
 ATTN: Vern Schrag

14-18s-30w Lane,KS
Herndon Trust # 1-14
 Job Ticket: 45845 **DST#: 1**
 Test Start: 2012.05.04 @ 17:44:00

GENERAL INFORMATION:

Formation: **Lansing " H & I "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:46:55

Time Test Ended: 02:08:09

Interval: 4116.00 ft (KB) To 4186.00 ft (KB) (TVD)

Total Depth: 4186.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 40

Reference Elevations: 2856.00 ft (KB)

2851.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8322

Outside

Press @ RunDepth: psig @ 4117.00 ft (KB)

Start Date: 2012.05.04

End Date: 2012.05.05

Start Time: 17:44:05

End Time: 02:08:29

Capacity: 8000.00 psig

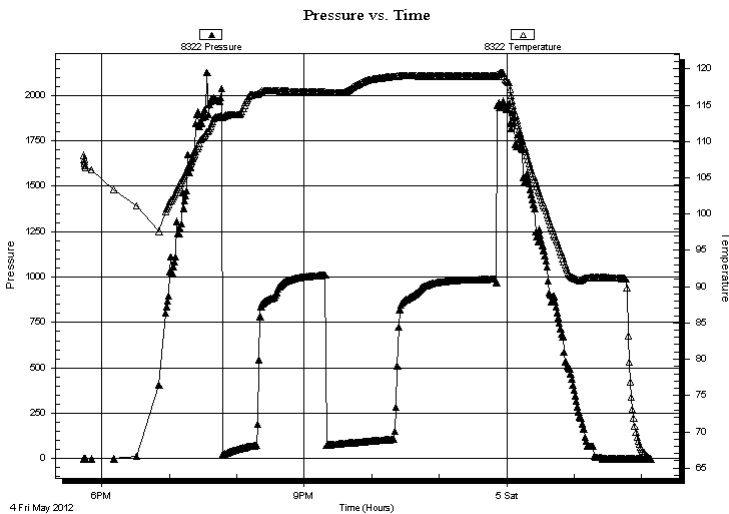
Last Calib.: 2012.05.05

Time On Btm:

Time Off Btm:

TEST COMMENT: IF- Surface Blow built to 6 1/4"
 IS- No Blow
 FF- Weak Surface Blow in 4 min Built to 5"
 FS- No Blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	GO 9%g 91%oil	0.17
53.00	GOCM 5%g 10%oil 85%w	0.26
62.00	OGCM 2%oil 3%g 95%w	0.56
62.00	GWCM 3%g 14%w 83%w with Skim	0.87
0.00	101' of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

14-18s-30w Lane,KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

Job Ticket: 45845

DST#: 1

ATTN: Vern Schrag

Test Start: 2012.05.04 @ 17:44:00

Tool Information

Drill Pipe:	Length: 3998.00 ft	Diameter: 3.80 inches	Volume: 56.08 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:	22000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	8000.00 lb
			<u>Total Volume: 56.68 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4116.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	70.00 ft				
Tool Length:	97.00 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			4090.00	
Shut In Tool	5.00			4095.00	
Hydraulic tool	5.00			4100.00	
Jars	5.00			4105.00	
Safety Joint	2.00			4107.00	
Packer	5.00			4112.00	27.00 Bottom Of Top Packer
Packer	4.00			4116.00	
Stubb	1.00			4117.00	
Recorder	0.00	8652	Inside	4117.00	
Recorder	0.00	8322	Outside	4117.00	
Perforations	29.00			4146.00	
Change Over Sub	1.00			4147.00	
Drill Pipe	31.00			4178.00	
Change Over Sub	1.00			4179.00	
Perforations	4.00			4183.00	
Bullnose	3.00			4186.00	70.00 Bottom Packers & Anchor
Total Tool Length:	97.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

14-18s-30w Lane,KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

Job Ticket: 45845

DST#: 1

ATTN: Vern Schrag

Test Start: 2012.05.04 @ 17:44:00

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:

24000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.91 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
35.00	GO 9%g 91%oil	0.172
53.00	GOCM 5%g 10%oil 85%m	0.261
62.00	OGCM 2%oil 3%g 95%m	0.560
62.00	GWCM 3%g 14%w 83%m with Skim of Oil	0.870
0.00	101' of GIP	0.000

Total Length: 212.00 ft Total Volume: 1.863 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API is 36 @ 70f = 35

RW is .294 @ 71f = 24000

Serial #: 8652

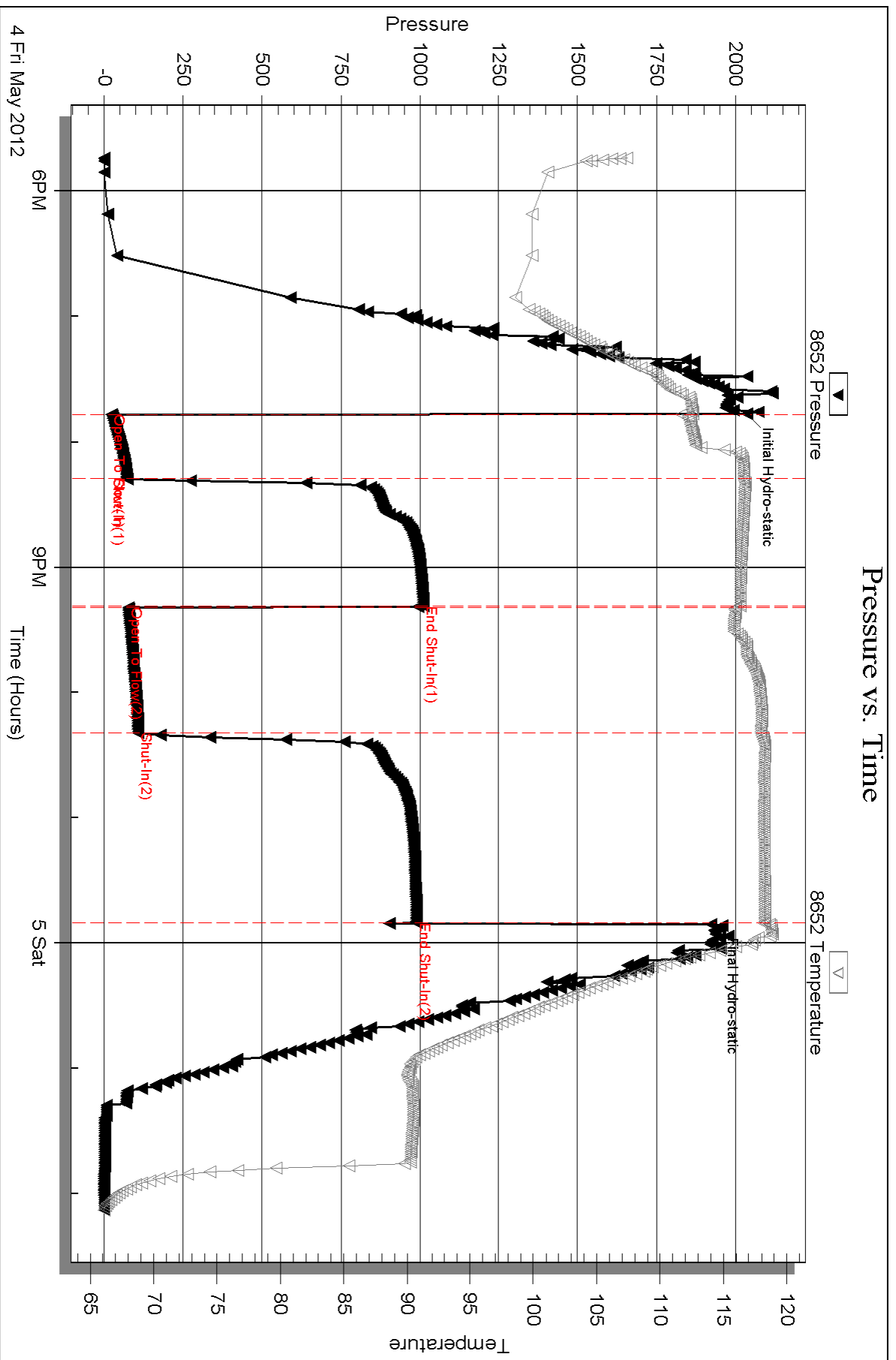
Inside

Murfin Drilling Co. Inc.

Herdon Trust # 1-14

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 45845

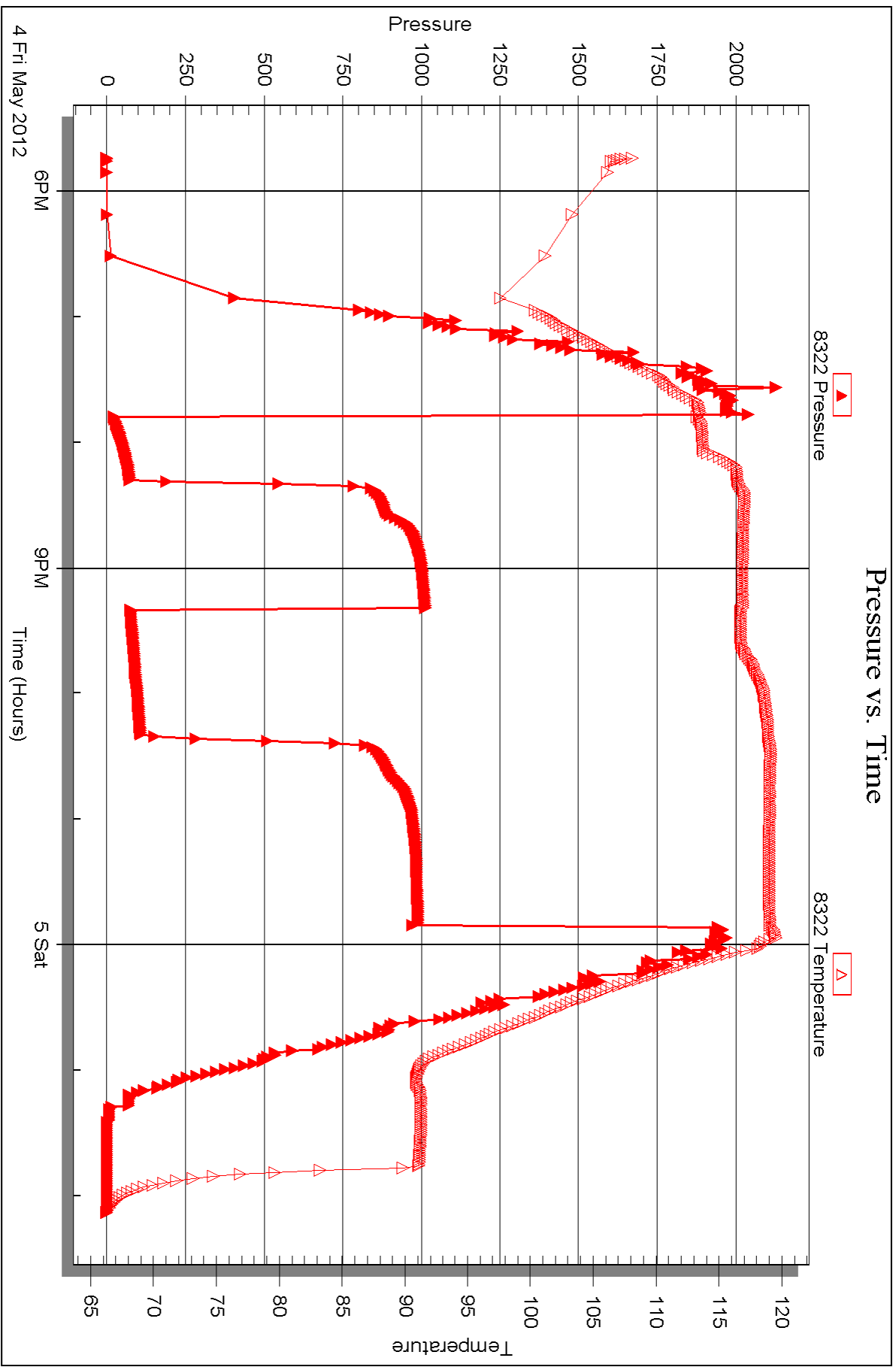
Printed: 2012.05.10 @ 11:27:46

Serial #: 8322

Outside Murfin Drilling Co. Inc.

Herdon Trust # 1-14

DST Test Number: 1





DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita KS. 67202

ATTN: Vern Schrag

Herndon Trust # 1-14

14-18s-30w Lane,KS

Start Date: 2012.05.05 @ 10:42:00

End Date: 2012.05.05 @ 19:00:39

Job Ticket #: 45846 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.10 @ 11:26:34

Murfin Drilling Co. Inc.

14-18s-30w Lane,KS

Herndon Trust # 1-14

DST # 2

Lansing " J "

2012.05.05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
 250 N. Water STE 300
 Wichita KS. 67202
 ATTN: Vern Schrag

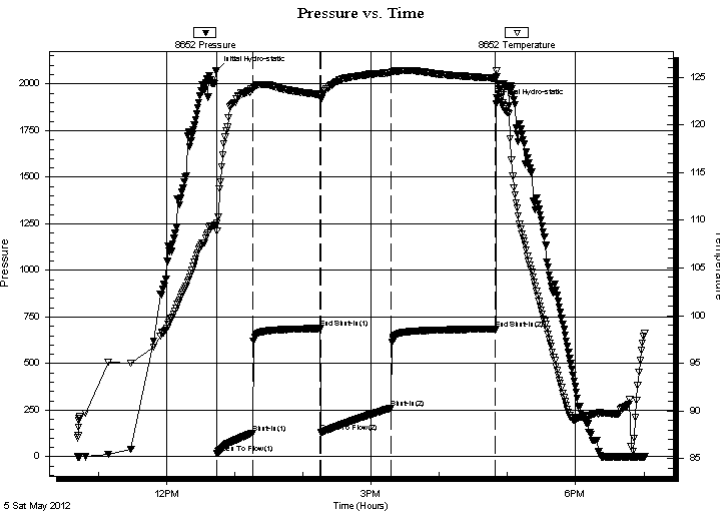
14-18s-30w Lane,KS
Herndon Trust # 1-14
 Job Ticket: 45846 **DST#: 2**
 Test Start: 2012.05.05 @ 10:42:00

GENERAL INFORMATION:

Formation: **Lansing " J "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:44:40
 Time Test Ended: 19:00:39
 Interval: **4193.00 ft (KB) To 4210.00 ft (KB) (TVD)**
 Total Depth: 4210.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Will MacLean
 Unit No: 40
 Reference Elevations: 2856.00 ft (KB)
 2851.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8652 Inside
 Press @ Run Depth: 261.65 psig @ 4194.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.05 End Date: 2012.05.05 Last Calib.: 2012.05.05
 Start Time: 10:42:00 End Time: 19:00:39 Time On Btm: 2012.05.05 @ 12:44:25
 Time Off Btm: 2012.05.05 @ 16:50:24

TEST COMMENT: IF- Surface Blow Built to 7 1/2"
 IS- No Blow
 FF- Weak Surface Blow Built to 5 1/4"
 FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2072.08	109.68	Initial Hydro-static
1	20.08	108.86	Open To Flow (1)
32	127.53	123.79	Shut-In(1)
91	687.97	123.14	End Shut-In(1)
92	129.52	122.77	Open To Flow (2)
154	261.65	125.48	Shut-In(2)
245	685.30	124.88	End Shut-In(2)
246	1895.97	125.65	Final Hydro-static

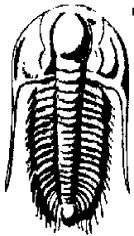
Recovery

Length (ft)	Description	Volume (bbl)
248.00	MCW 3%m 97%w	2.37
189.00	MCW 8%m 92%w	2.65
108.00	MCW 28%m 72%w (Skim of Oil)	1.51
5.00	GO 3%g 97%oil	0.07

* Recovery from multiple tests

Gas Rates

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



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TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

14-18s-30w Lane,KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

ATTN: Vern Schrag

Job Ticket: 45846

DST#: 2

Test Start: 2012.05.05 @ 10:42:00

GENERAL INFORMATION:

Formation: **Lansing " J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:44:40

Time Test Ended: 19:00:39

Interval: 4193.00 ft (KB) To 4210.00 ft (KB) (TVD)

Total Depth: 4210.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Reference Elevations: 2856.00 ft (KB)

2851.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press @ Run Depth: psig @ 4194.00 ft (KB)

Start Date: 2012.05.05

End Date:

2012.05.05

Start Time: 10:42:05

End Time:

19:00:59

Capacity: 8000.00 psig

Last Calib.: 2012.05.05

Time On Btm:

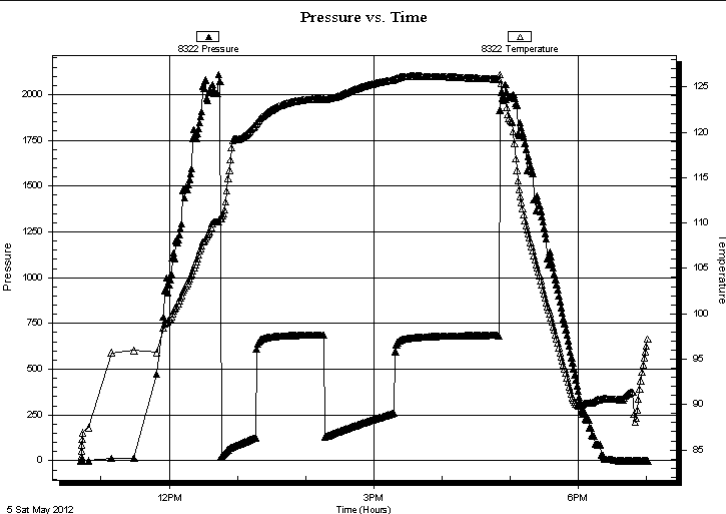
Time Off Btm:

TEST COMMENT: IF- Surface Blow Built to 7 1/2"

IS- No Blow

FF- Weak Surface Blow Built to 5 1/4"

FS- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
248.00	MCW 3%m 97%w	2.37
189.00	MCW 8%m 92%w	2.65
108.00	MCW 28%m 72%w (Skim of Oil)	1.51
5.00	GO 3%g 97%oil	0.07

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.

14-18s-30w Lane,KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

Job Ticket: 45846

DST#: 2

ATTN: Vern Schrag

Test Start: 2012.05.05 @ 10:42:00

Tool Information

Drill Pipe:	Length: 4060.00 ft	Diameter: 3.80 inches	Volume: 56.95 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: 28000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 4000.00 lb
			<u>Total Volume: 57.55 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4193.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4167.00	
Shut In Tool	5.00			4172.00	
Hydraulic tool	5.00			4177.00	
Jars	5.00			4182.00	
Safety Joint	2.00			4184.00	
Packer	5.00			4189.00	27.00 Bottom Of Top Packer
Packer	4.00			4193.00	
Stubb	1.00			4194.00	
Recorder	0.00	8652	Inside	4194.00	
Recorder	0.00	8322	Outside	4194.00	
Perforations	13.00			4207.00	
Bullnose	3.00			4210.00	17.00 Bottom Packers & Anchor

Total Tool Length: 44.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

14-18s-30w Lane,KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

Job Ticket: 45846

DST#: 2

ATTN: Vern Schrag

Test Start: 2012.05.05 @ 10:42:00

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:

43000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.92 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
248.00	MCW 3%m 97%w	2.367
189.00	MCW 8%m 92%w	2.651
108.00	MCW 28%m 72%w (Skim of Oil)	1.515
5.00	GO 3%g 97%oil	0.070

Total Length: 550.00 ft Total Volume: 6.603 bbl

Num Fluid Samples: 0

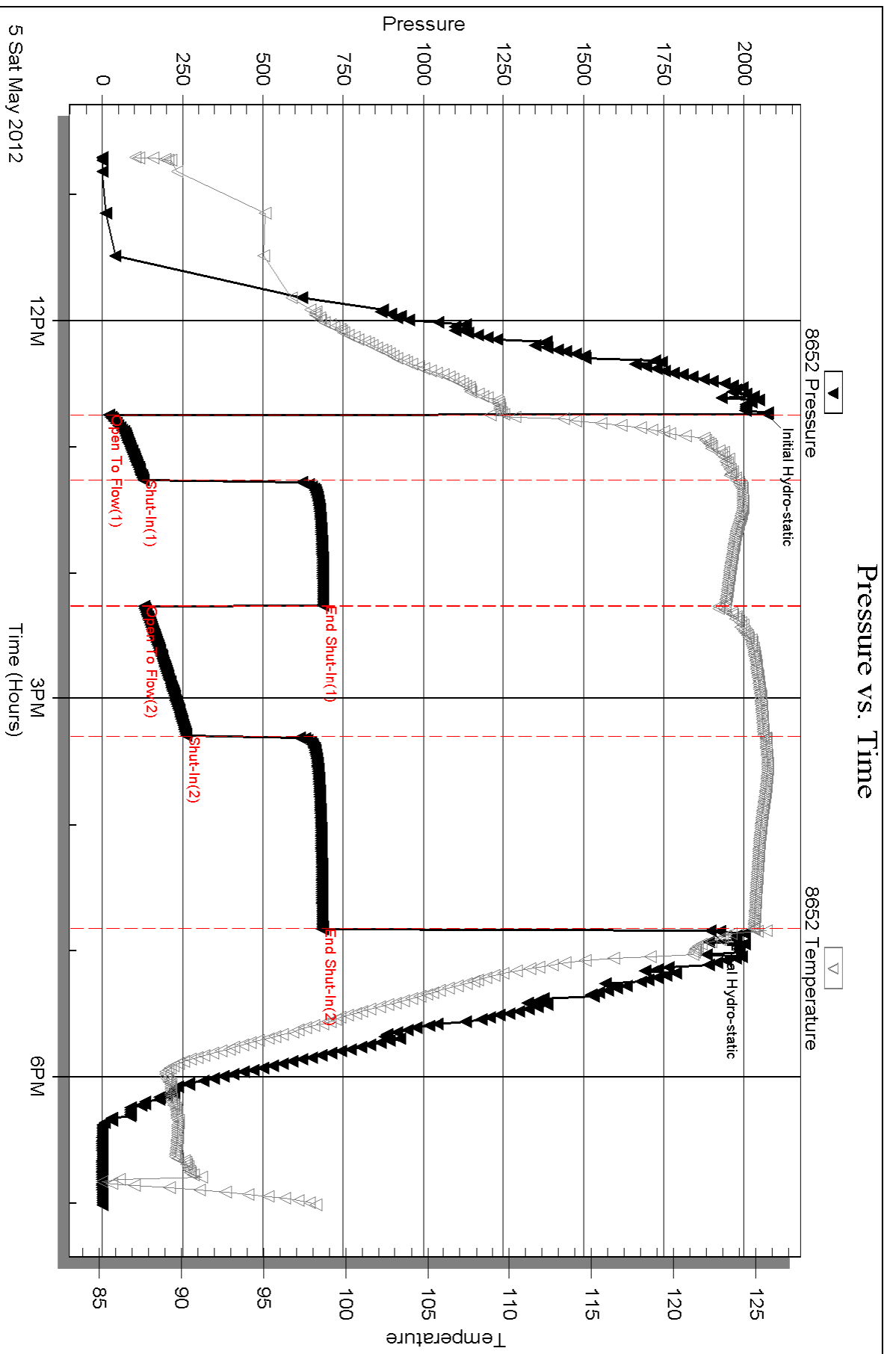
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .118 @ 96f = 43000

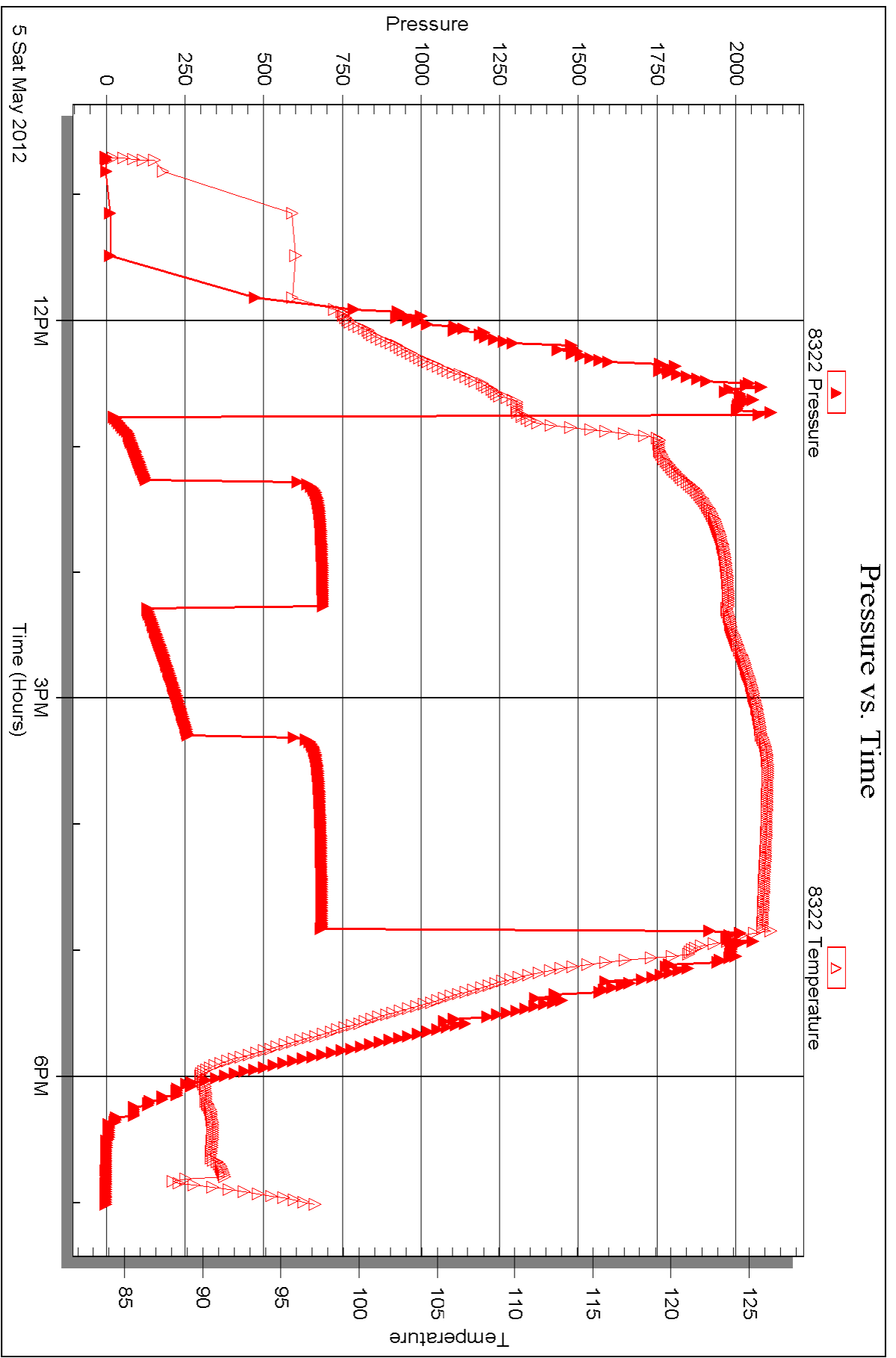


Serial #: 8322

Outside Murfin Drilling Co. Inc.

Herndon Trust # 1-14

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 45846

Printed: 2012.05.10 @ 11:26:37



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita KS. 67202

ATTN: Vern Schrag

Herndon Trust # 1-14

14-18s-30w Lane,KS

Start Date: 2012.05.06 @ 04:34:00

End Date: 2012.05.06 @ 12:06:54

Job Ticket #: 45847 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.10 @ 11:25:45

Murfin Drilling Co. Inc.

14-18s-30w Lane,KS

Herndon Trust # 1-14

DST # 3

Lansing " K "

2012.05.06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

14-18s-30w Lane,KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

ATTN: Vern Schrag

Job Ticket: 45847

DST#: 3

Test Start: 2012.05.06 @ 04:34:00

GENERAL INFORMATION:

Formation: **Lansing " K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:35:40

Time Test Ended: 12:06:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4218.00 ft (KB) To 4250.00 ft (KB) (TVD)

Reference Elevations: 2856.00 ft (KB)

Total Depth: 4250.00 ft (KB) (TVD)

2851.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652

Inside

Press @ Run Depth: 269.39 psig @ 4219.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.06

End Date: 2012.05.06

Last Calib.: 2012.05.06

Start Time: 04:34:00

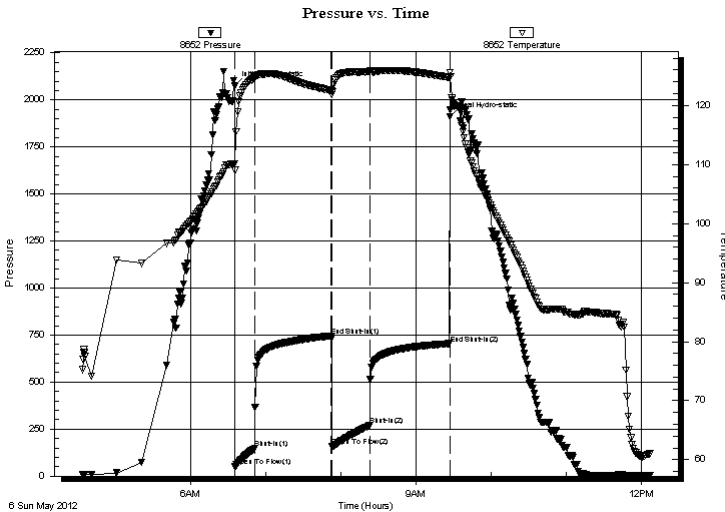
End Time: 12:06:54

Time On Btm: 2012.05.06 @ 06:35:25

Time Off Btm: 2012.05.06 @ 09:27:09

TEST COMMENT: IF- Strong Surface Blow Built to BOB in 3 min
 IS- Weak Surface Blow in 5 min Built to 2 3/4"
 FF- Surface Blow Built to BOB in 6 min
 FS- Weak Surface Blow in 11min Built to 3/4" Died in 48 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2074.44	110.15	Initial Hydro-static
1	49.71	109.04	Open To Flow (1)
16	147.58	124.67	Shut-In(1)
77	744.86	122.54	End Shut-In(1)
78	156.43	121.80	Open To Flow (2)
108	269.39	125.76	Shut-In(2)
172	704.14	124.76	End Shut-In(2)
172	1910.13	125.52	Final Hydro-static

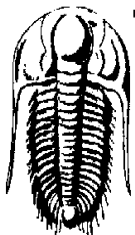
Recovery

Length (ft)	Description	Volume (bbl)
132.00	WOGCM 4%w 11%oil 30%g 55%m	0.74
113.00	GO 18%g 82%oil	1.59
252.00	GO 27%g 73%oil	3.53
172.00	GO 15%g 85%oil	2.41
0.00	330 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

Murfin Drilling Co. Inc.

14-18s-30w Lane, KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

ATTN: Vern Schrag

Job Ticket: 45847

DST#: 3

Test Start: 2012.05.06 @ 04:34:00

GENERAL INFORMATION:

Formation: **Lansing " K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:35:40

Time Test Ended: 12:06:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4218.00 ft (KB) To 4250.00 ft (KB) (TVD)

Reference Elevations: 2856.00 ft (KB)

Total Depth: 4250.00 ft (KB) (TVD)

2851.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 4219.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.06 End Date: 2012.05.06

Last Calib.: 2012.05.06

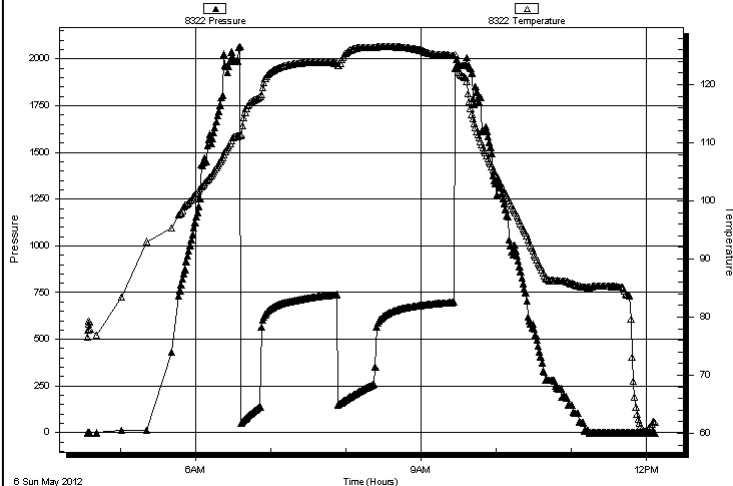
Start Time: 04:34:05 End Time: 12:07:14

Time On Btm:

Time Off Btm:

TEST COMMENT: IF- Strong Surface Blow Built to BOB in 3 min
 IS- Weak Surface Blow in 5 min Built to 2 3/4"
 FF- Surface Blow Built to BOB in 6 min
 FS- Weak Surface Blow in 11min Built to 3/4" Died in 48 min

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
132.00	WOGCM 4%w 11%oil 30%g 55%m	0.74
113.00	GO 18%g 82%oil	1.59
252.00	GO 27%g 73%oil	3.53
172.00	GO 15%g 85%oil	2.41
0.00	330 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.

14-18s-30w Lane,KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

Job Ticket: 45847

DST#: 3

ATTN: Vern Schrag

Test Start: 2012.05.06 @ 04:34:00

Tool Information

Drill Pipe:	Length: 4090.00 ft	Diameter: 3.80 inches	Volume: 57.37 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	2000.00 lb
			<u>Total Volume: 57.97 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4218.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	59.00 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			4192.00	
Shut In Tool	5.00			4197.00	
Hydraulic tool	5.00			4202.00	
Jars	5.00			4207.00	
Safety Joint	2.00			4209.00	
Packer	5.00			4214.00	27.00 Bottom Of Top Packer
Packer	4.00			4218.00	
Stubb	1.00			4219.00	
Recorder	0.00	8652	Inside	4219.00	
Recorder	0.00	8322	Outside	4219.00	
Perforations	28.00			4247.00	
Bullnose	3.00			4250.00	32.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

14-18s-30w Lane,KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

Job Ticket: 45847

DST#: 3

ATTN: Vern Schrag

Test Start: 2012.05.06 @ 04:34:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.92 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
132.00	WOGCM 4%w 11%oil 30%g 55%m	0.740
113.00	GO 18%g 82%oil	1.585
252.00	GO 27%g 73%oil	3.535
172.00	GO 15%g 85%oil	2.413
0.00	330 of GIP	0.000

Total Length: 669.00 ft Total Volume: 8.273 bbl

Num Fluid Samples: 0

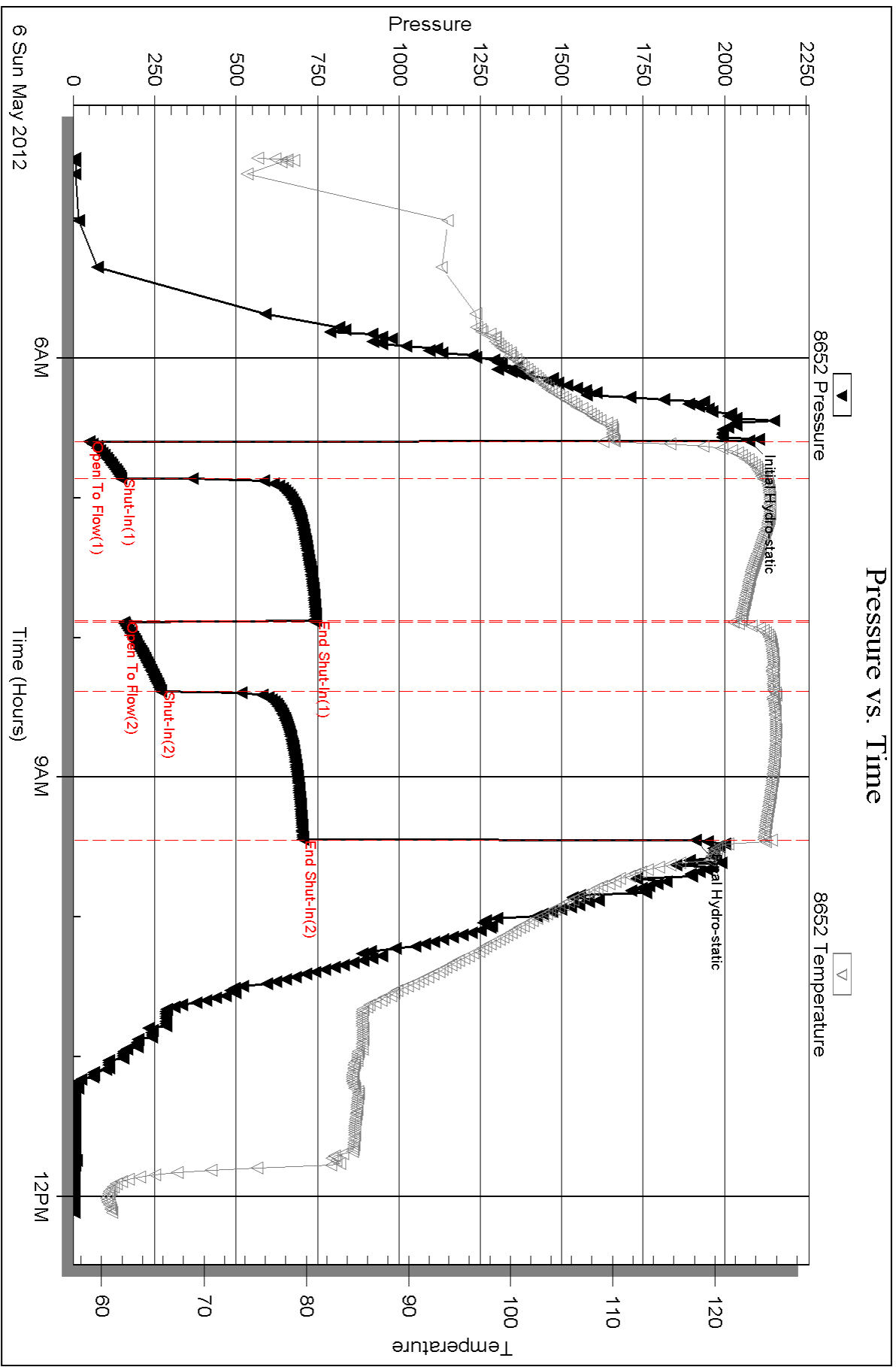
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API is 33 @ 60f = 33

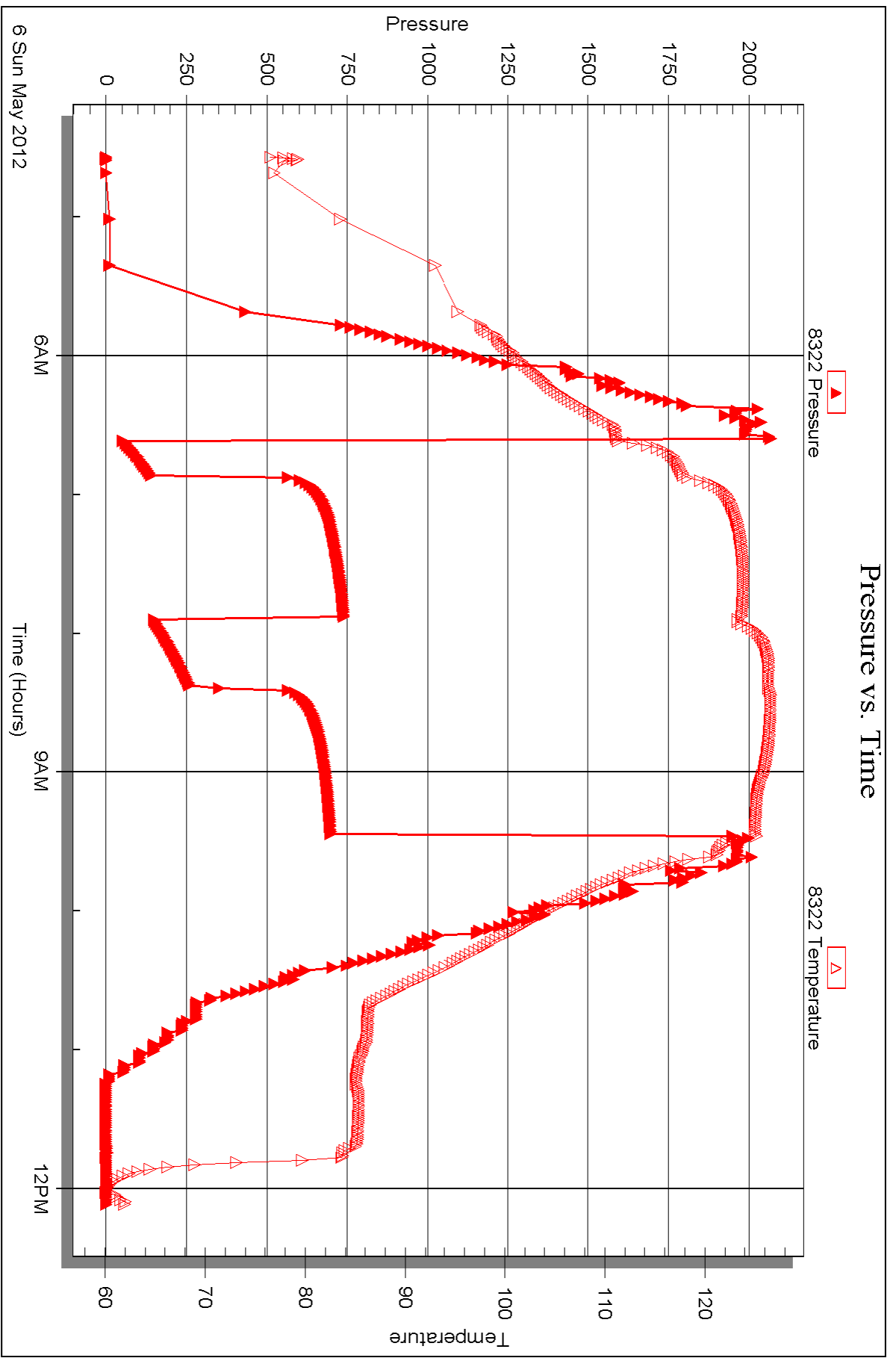


Serial #: 8322

Outside Murfin Drilling Co. Inc.

Herdon Trust # 1-14

DST Test Number: 3





DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita KS. 67202

ATTN: Vern Schrag

Herndon Trust # 1-14

14-18s-30w Lane,KS

Start Date: 2012.05.06 @ 22:26:00

End Date: 2012.05.07 @ 06:49:39

Job Ticket #: 45848 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.10 @ 11:25:00

Murfin Drilling Co. Inc.

14-18s-30w Lane,KS

Herndon Trust # 1-14

DST # 4

Lansing " L "

2012.05.06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

14-18s-30w Lane, KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

ATTN: Vern Schrag

Job Ticket: 45848

DST#: 4

Test Start: 2012.05.06 @ 22:26:00

GENERAL INFORMATION:

Formation: **Lansing " L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:25:55

Time Test Ended: 06:49:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4252.00 ft (KB) To 4300.00 ft (KB) (TVD)

Reference Elevations: 2856.00 ft (KB)

Total Depth: 4300.00 ft (KB) (TVD)

2851.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Inside

Press @ Run Depth: 564.05 psig @ 4254.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.06

End Date:

2012.05.07

Last Calib.: 2012.05.07

Start Time: 22:26:00

End Time:

06:49:39

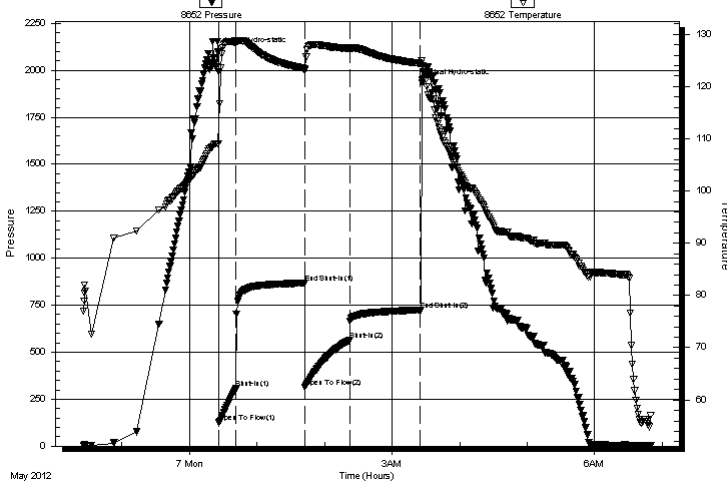
Time On Btm: 2012.05.07 @ 00:25:25

Time Off Btm: 2012.05.07 @ 03:26:24

TEST COMMENT: IF- Strong Surface Blow Built to BOB in 1 1/4 min
IS- Weak Surface Blow in 8 min Built to 2 1/4"
FF- Surface Blow Built to BOB in 2 1/2 min
FS- Weak Surface Blow in 11 min Built to 1/2"

Dropped the Bar

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2098.57	109.01	Initial Hydro-static
1	125.01	108.97	Open To Flow (1)
16	306.85	128.47	Shut-In(1)
77	868.10	123.46	End Shut-In(1)
77	314.39	123.09	Open To Flow (2)
117	564.05	127.23	Shut-In(2)
180	725.41	124.43	End Shut-In(2)
181	1931.38	124.95	Final Hydro-static

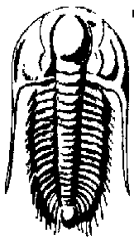
Recovery

Length (ft)	Description	Volume (bbl)
61.00	GOCM 10%g 12%oil 78%m	0.30
124.00	GMCO 10%g 36%m 54%oil	1.18
1008.00	GO 19%g 81%oil	14.14
315.00	GO 23%g 77%oil	4.42
0.00	378' 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.
250 N. Water STE 300
Wichita KS. 67202
ATTN: Vern Schrag

14-18s-30w Lane, KS
Herndon Trust # 1-14
Job Ticket: 45848 **DST#: 4**
Test Start: 2012.05.06 @ 22:26:00

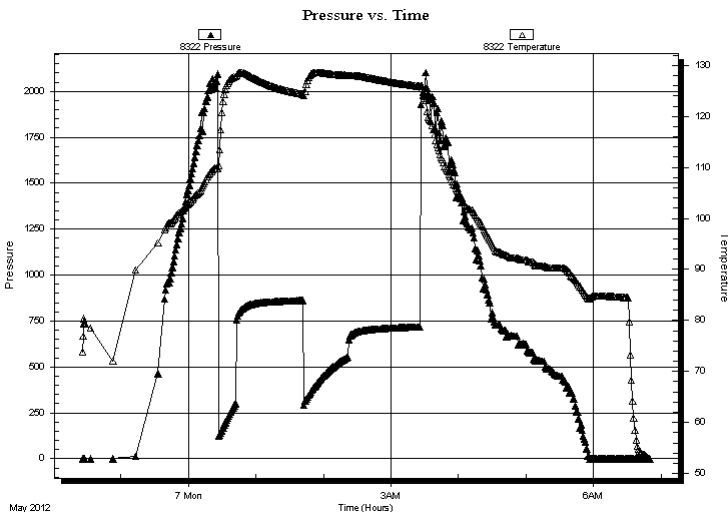
GENERAL INFORMATION:

Formation: Lansing " L "		Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock:	ft (KB)	Tester: Will MacLean
Time Tool Opened: 00:25:55		Unit No: 40
Time Test Ended: 06:49:39		Reference Elevations: 2856.00 ft (KB)
Interval: 4252.00 ft (KB) To 4300.00 ft (KB) (TVD)		2851.00 ft (CF)
Total Depth: 4300.00 ft (KB) (TVD)		KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Good	

Serial #: 8322 Outside

Press @ RunDepth: psig @ 4254.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.05.06 End Date: 2012.05.07	Last Calib.: 2012.05.07
Start Time: 22:26:05 End Time: 06:49:59	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF- Strong Surface Blow Built to BOB in 1 1/4 min
 IS- Weak Surface Blow in 8 min Built to 2 1/4"
 FF- Surface Blow Built to BOB in 2 1/2 min
 FS- Weak Surface Blow in 11 min Built to 1/2"
 Dropped the Bar



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GOCM 10%g 12%oil 78%m	0.30
124.00	GMCO 10%g 36%m 54%oil	1.18
1008.00	GO 19%g 81%oil	14.14
315.00	GO 23%g 77%oil	4.42
0.00	378' 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

TOOL DIAGRAM

Murfin Drilling Co. Inc.

14-18s-30w Lane,KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

Job Ticket: 45848

DST#: 4

ATTN: Vern Schrag

Test Start: 2012.05.06 @ 22:26:00

Tool Information

Drill Pipe:	Length: 4120.00 ft	Diameter: 3.80 inches	Volume: 57.79 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 4000.00 lb
			<u>Total Volume: 58.39 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4252.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	75.00 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			4226.00	
Shut In Tool	5.00			4231.00	
Hydraulic tool	5.00			4236.00	
Jars	5.00			4241.00	
Safety Joint	2.00			4243.00	
Packer	5.00			4248.00	27.00 Bottom Of Top Packer
Packer	4.00			4252.00	
Stubb	1.00			4253.00	
Perforations	1.00			4254.00	
Recorder	0.00	8652	Inside	4254.00	
Recorder	0.00	8322	Outside	4254.00	
Perforations	10.00			4264.00	
Change Over Sub	1.00			4265.00	
Drill Pipe	31.00			4296.00	
Change Over Sub	1.00			4297.00	
Bullnose	3.00			4300.00	48.00 Bottom Packers & Anchor
Total Tool Length:	75.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

14-18s-30w Lane,KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

Job Ticket: 45848

DST#: 4

ATTN: Vern Schrag

Test Start: 2012.05.06 @ 22:26:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.56 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
61.00	GOCM 10%g 12%oil 78%m	0.300
124.00	GMCO 10%g 36%m 54%oil	1.184
1008.00	GO 19%g 81%oil	14.140
315.00	GO 23%g 77%oil	4.419
0.00	378' of GIP	0.000

Total Length: 1508.00 ft Total Volume: 20.043 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

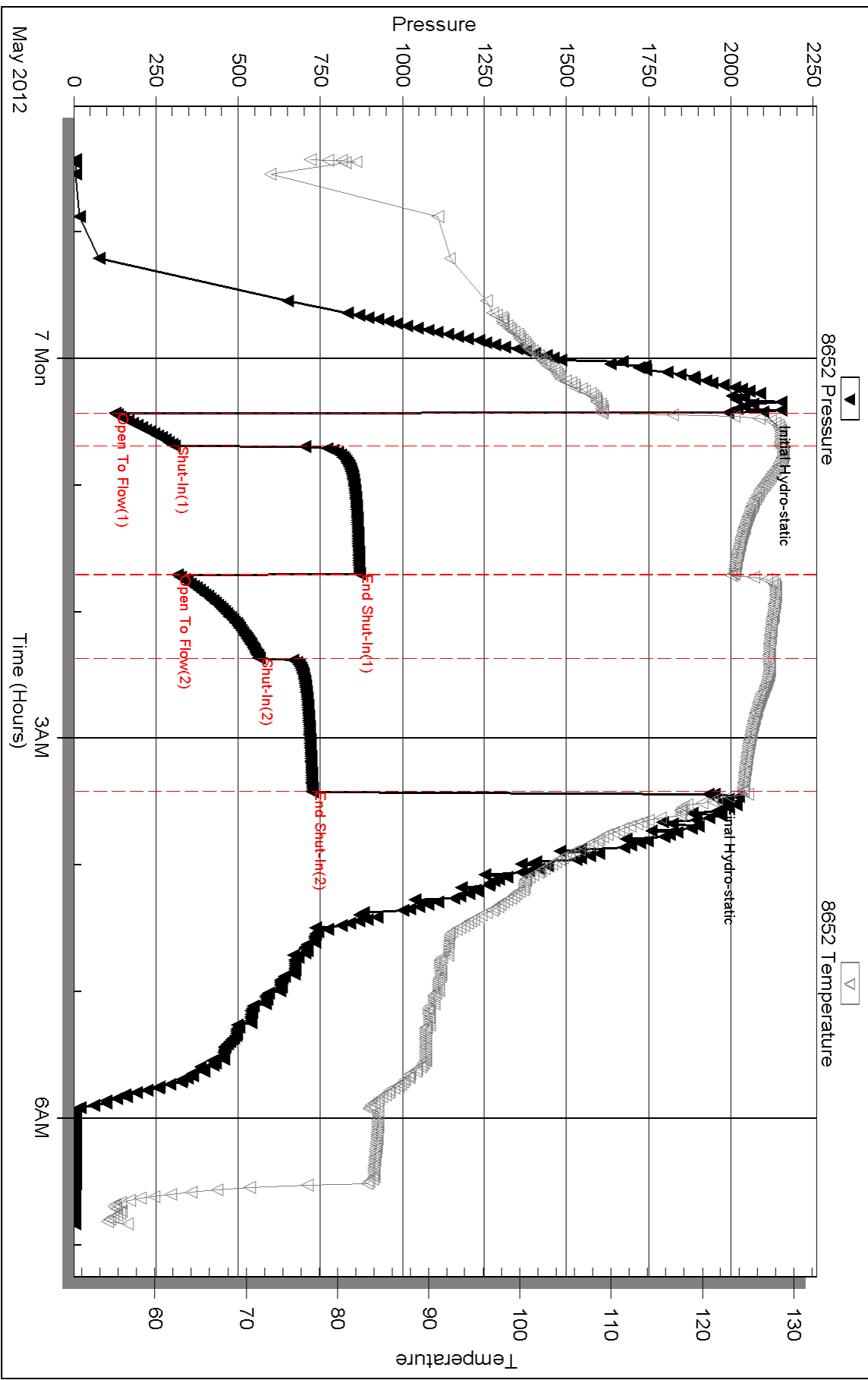
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API is 35 @ 50f = 36

Pressure vs. Time

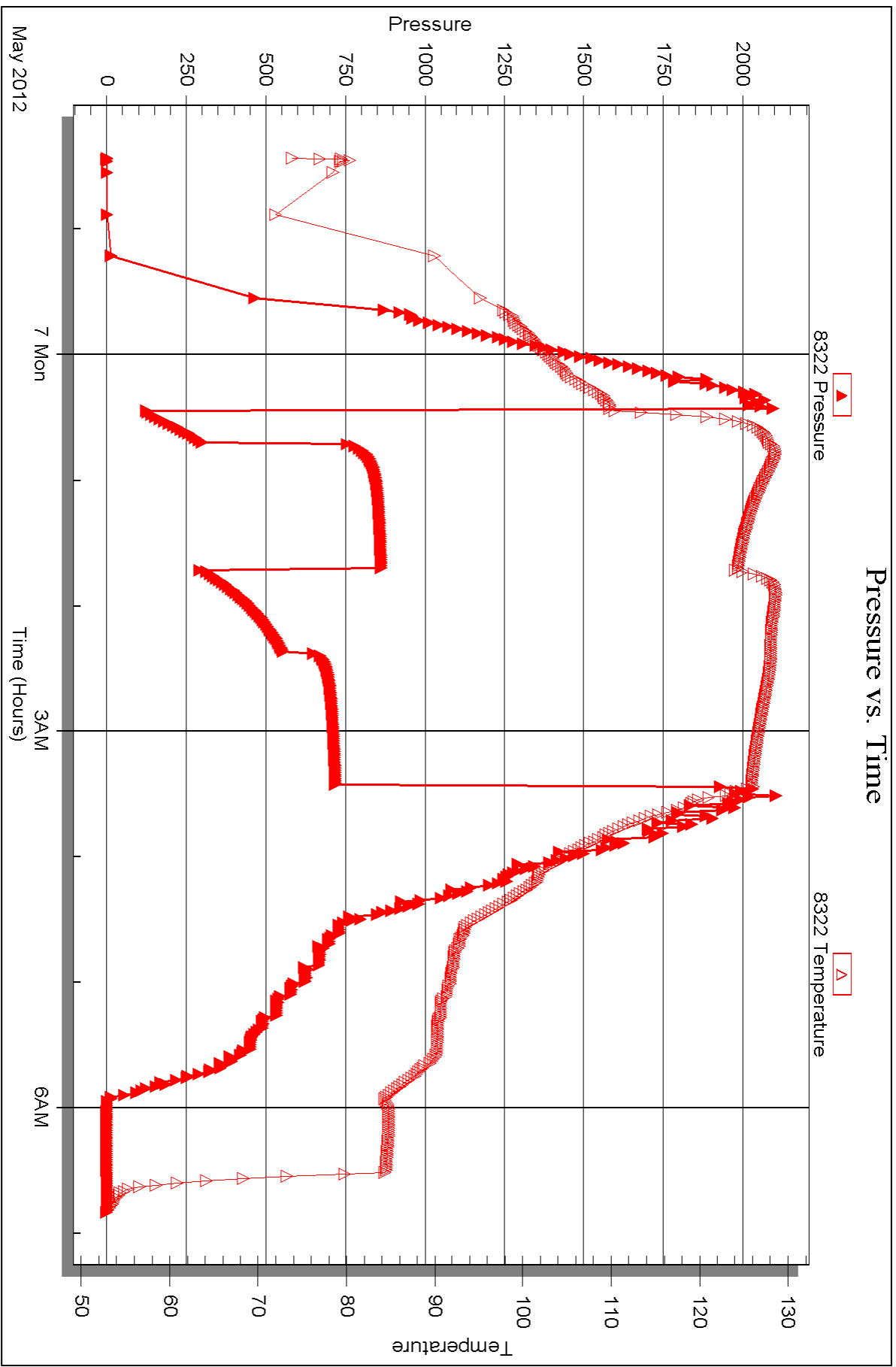


Serial #: 8322

Outside Murfin Drilling Co. Inc.

Herdon Trust # 1-14

DST Test Number: 4





DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita KS. 67202

ATTN: Vern Schrag

Herndon Trust # 1-14

14-18s-30w Lane,KS

Start Date: 2012.05.07 @ 21:28:00

End Date: 2012.05.08 @ 05:53:39

Job Ticket #: 45849 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.10 @ 11:24:15

Murfin Drilling Co. Inc.

14-18s-30w Lane,KS

Herndon Trust # 1-14

DST # 5

Pleasanton / Marmatio

2012.05.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

14-18s-30w Lane, KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

ATTN: Vern Schrag

Job Ticket: 45849

DST#: 5

Test Start: 2012.05.07 @ 21:28:00

GENERAL INFORMATION:

Formation: **Pleasanton / Marmatio**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:27:55

Time Test Ended: 05:53:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4298.00 ft (KB) To 4410.00 ft (KB) (TVD)

Reference Elevations: 2856.00 ft (KB)

Total Depth: 4410.00 ft (KB) (TVD)

2851.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Inside

Press @ Run Depth: 85.36 psig @ 4300.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.07 End Date: 2012.05.08

Last Calib.: 2012.05.08

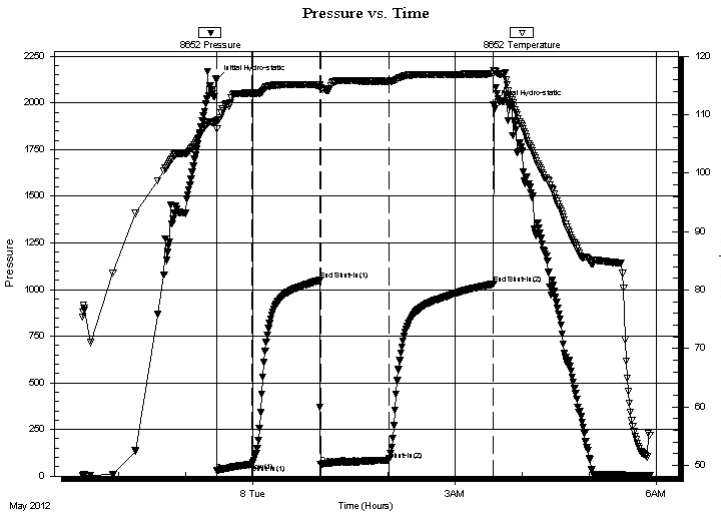
Start Time: 21:28:00 End Time: 05:53:39

Time On Btm: 2012.05.07 @ 23:27:40

Time Off Btm: 2012.05.08 @ 03:34:39

TEST COMMENT: IF- Surface Blow Built to 4"
IS- No Blow
FF- Surface Blow Built to 2 3/4"
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2124.63	108.98	Initial Hydro-static
1	27.59	107.63	Open To Flow (1)
31	63.37	113.69	Shut-In(1)
92	1049.13	115.10	End Shut-In(1)
93	62.76	114.67	Open To Flow (2)
154	85.36	115.72	Shut-In(2)
247	1029.45	117.02	End Shut-In(2)
247	1988.81	117.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	OGCM 7%oil 12%g 81%m	0.60
20.00	GOCM 3%g 10%oil 87%m	0.28
10.00	GO 8%g 92%oil	0.14
0.00	126' 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.
250 N. Water STE 300
Wichita KS. 67202
ATTN: Vern Schrag

14-18s-30w Lane,KS
Herndon Trust # 1-14
Job Ticket: 45849 **DST#: 5**
Test Start: 2012.05.07 @ 21:28:00

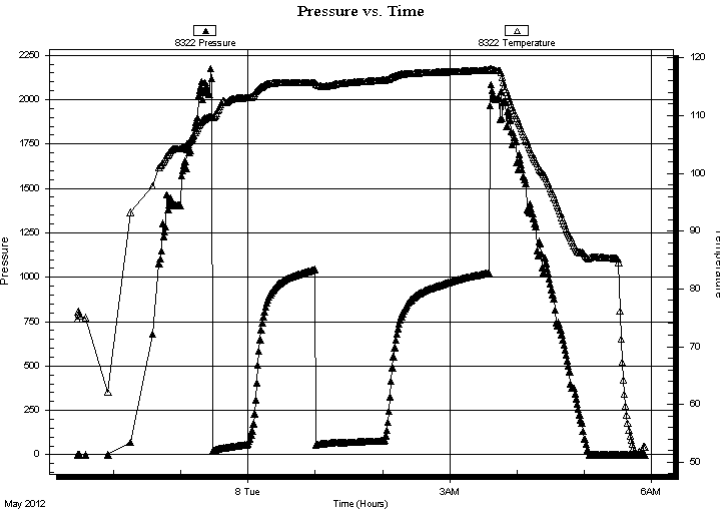
GENERAL INFORMATION:

Formation: **Pleasanton / Marmatio**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 23:27:55 Tester: Will MacLean
Time Test Ended: 05:53:39 Unit No: 40
Interval: 4298.00 ft (KB) To 4410.00 ft (KB) (TVD) Reference Elevations: 2856.00 ft (KB)
Total Depth: 4410.00 ft (KB) (TVD) 2851.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 4300.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.05.07 End Date: 2012.05.08 Last Calib.: 2012.05.08
Start Time: 21:28:05 End Time: 05:53:59 Time On Btm:
Time Off Btm:

TEST COMMENT: IF- Surface Blow Built to 4"
IS- No Blow
FF- Surface Blow Built to 2 3/4"
FS- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
122.00	OGCM 7%oil 12%g 81%m	0.60
20.00	GOCM 3%g 10%oil 87%m	0.28
10.00	GO 8%g 92%oil	0.14
0.00	126' 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.

14-18s-30w Lane,KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

Job Ticket: 45849

DST#: 5

ATTN: Vern Schrag

Test Start: 2012.05.07 @ 21:28:00

Tool Information

Drill Pipe:	Length: 4154.00 ft	Diameter: 3.80 inches	Volume: 58.27 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 8000.00 lb
			<u>Total Volume: 58.87 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4298.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	112.00 ft			
Tool Length:	139.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4272.00	
Shut In Tool	5.00			4277.00	
Hydraulic tool	5.00			4282.00	
Jars	5.00			4287.00	
Safety Joint	2.00			4289.00	
Packer	5.00			4294.00	27.00 Bottom Of Top Packer
Packer	4.00			4298.00	
Stubb	1.00			4299.00	
Perforations	1.00			4300.00	
Recorder	0.00	8652	Inside	4300.00	
Recorder	0.00	8322	Outside	4300.00	
Perforations	10.00			4310.00	
Change Over Sub	1.00			4311.00	
Drill Pipe	93.00			4404.00	
Change Over Sub	1.00			4405.00	
Perforations	2.00			4407.00	
Bullnose	3.00			4410.00	112.00 Bottom Packers & Anchor
Total Tool Length:	139.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

14-18s-30w Lane,KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

Job Ticket: 45849

DST#: 5

ATTN: Vern Schrag

Test Start: 2012.05.07 @ 21:28:00

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: 89.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
122.00	OGCM 7%oil 12%g 81%m	0.600
20.00	GOCM 3%g 10%oil 87%m	0.281
10.00	GO 8%g 92%oil	0.140
0.00	126' of GIP	0.000

Total Length: 152.00 ft Total Volume: 1.021 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API is 34 @ 50f = 35

Serial #: 8652

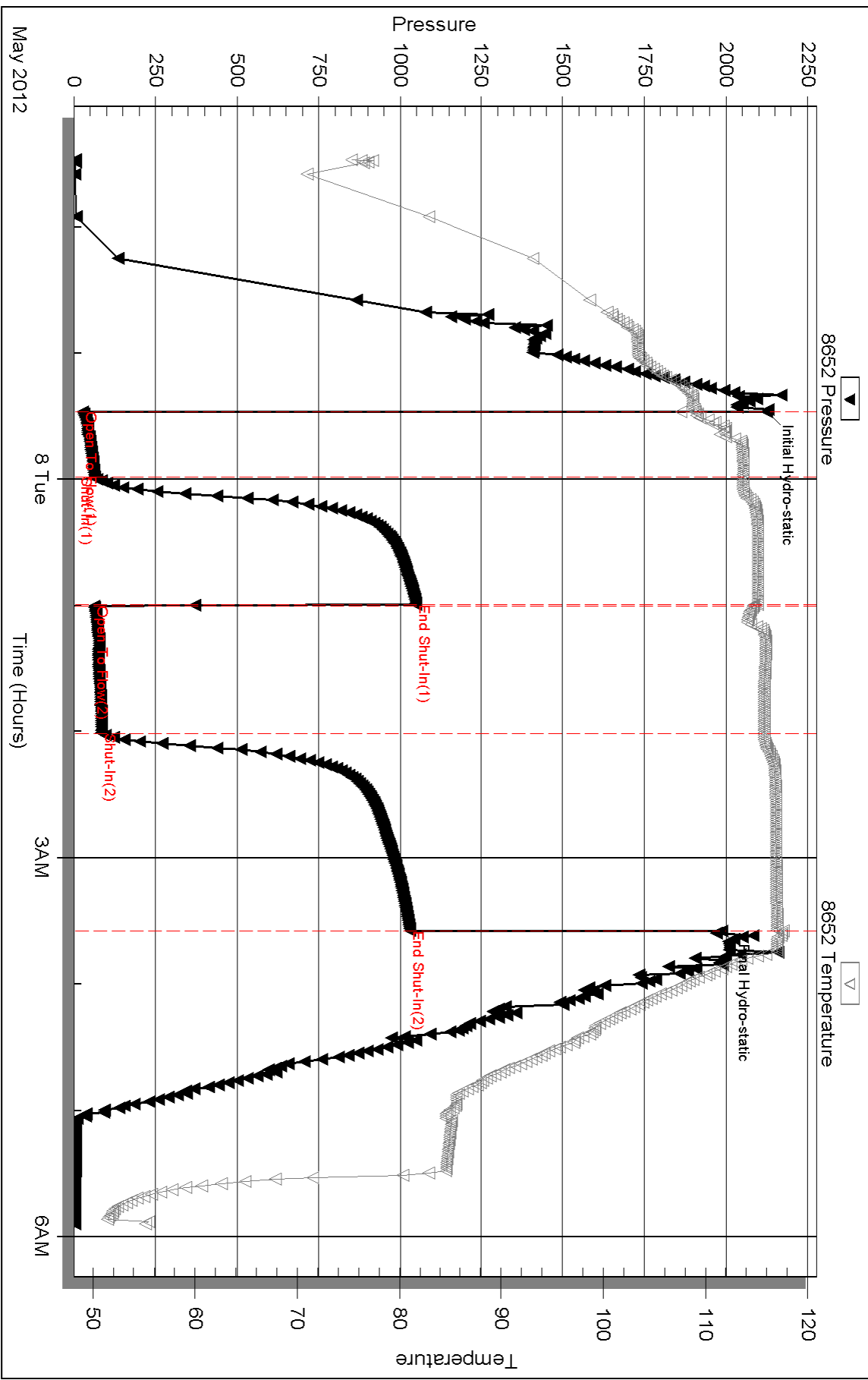
Inside

Murfin Drilling Co. Inc.

Herdon Trust # 1-14

DST Test Number: 5

Pressure vs. Time

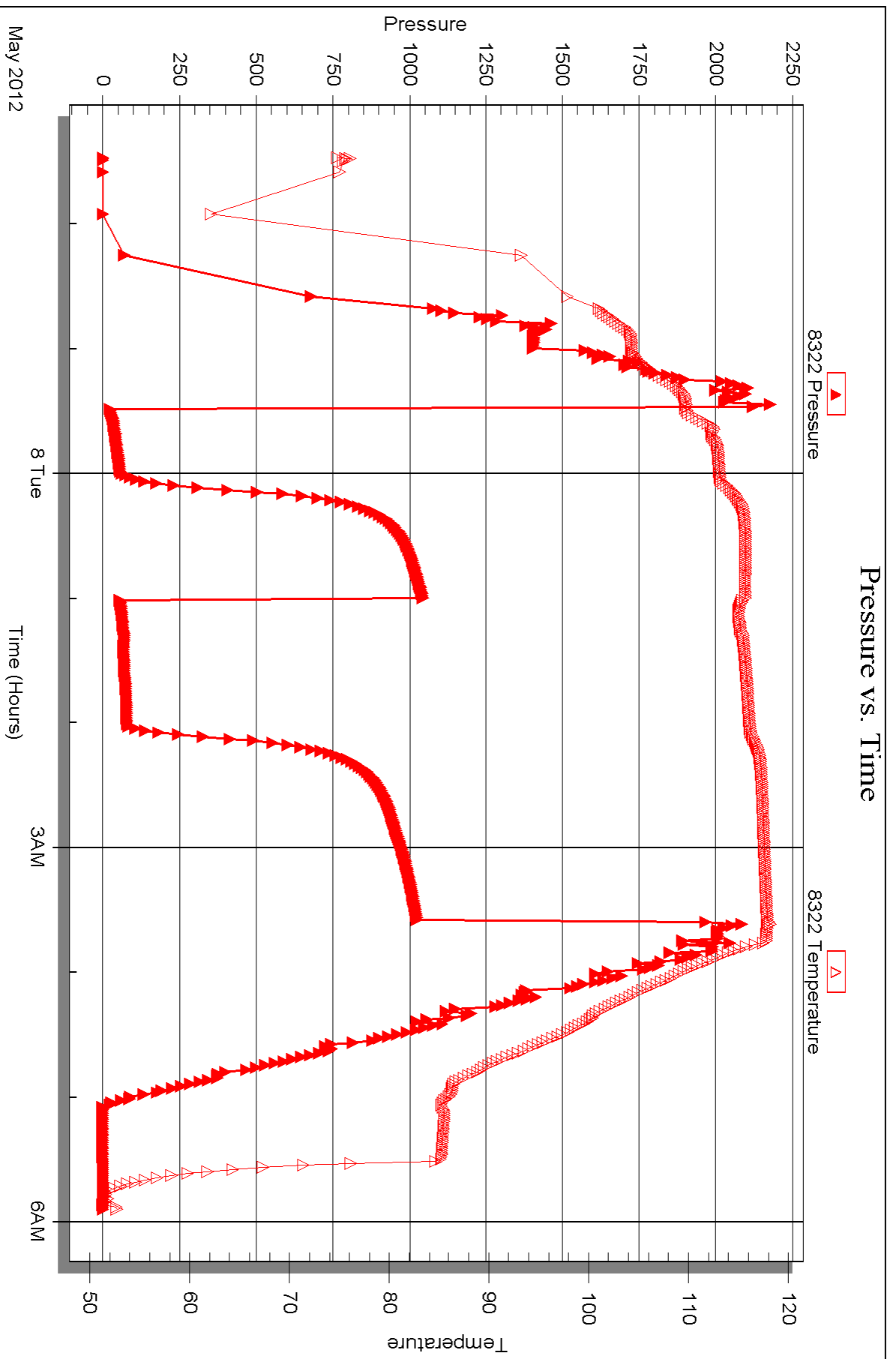


Serial #: 8322

Outside Murfin Drilling Co. Inc.

Herdon Trust # 1-14

DST Test Number: 5





DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita KS. 67202

ATTN: Vern Schrag

Herndon Trust # 1-14

14-18s-30w Lane,KS

Start Date: 2012.05.09 @ 01:20:00

End Date: 2012.05.09 @ 08:48:39

Job Ticket #: 45850 DST #: 6

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

Printed: 2012.05.10 @ 11:23:30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
 250 N. Water STE 300
 Wichita KS. 67202
 ATTN: Vern Schrag

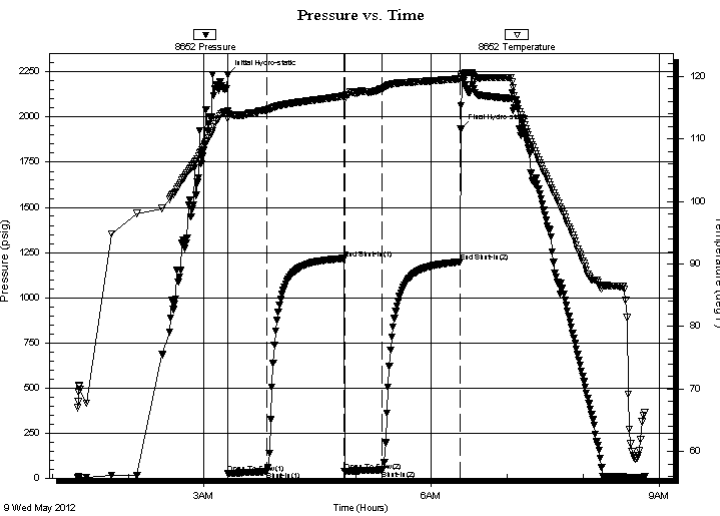
14-18s-30w Lane, KS
Herndon Trust # 1-14
 Job Ticket: 45850 **DST#: 6**
 Test Start: 2012.05.09 @ 01:20:00

GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 03:18:55 Tester: Will MacLean
 Time Test Ended: 08:48:39 Unit No: 40
 Interval: **4489.00 ft (KB) To 4540.00 ft (KB) (TVD)** Reference Elevations: 2856.00 ft (KB)
 Total Depth: 4540.00 ft (KB) (TVD) 2851.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8652 Inside
 Press @ Run Depth: 45.83 psig @ 4491.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.09 End Date: 2012.05.09 Last Calib.: 2012.05.09
 Start Time: 01:20:00 End Time: 08:48:39 Time On Btm: 2012.05.09 @ 03:18:40
 Time Off Btm: 2012.05.09 @ 06:23:09

TEST COMMENT: IF- Weak Surface Blow 1/4 "
 IS- No Blow
 FF- No Blow
 FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2233.48	114.44	Initial Hydro-static
1	25.35	113.22	Open To Flow (1)
32	36.45	114.66	Shut-In(1)
92	1216.47	116.85	End Shut-In(1)
93	38.48	116.31	Open To Flow (2)
123	45.83	118.05	Shut-In(2)
184	1197.56	119.62	End Shut-In(2)
185	1933.36	120.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% mud (Oil Spots in Tool)	0.05

* 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.

14-18s-30w Lane,KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

Job Ticket: 45850

DST#: 6

ATTN: Vern Schrag

Test Start: 2012.05.09 @ 01:20:00

Tool Information

Drill Pipe:	Length: 4372.00 ft	Diameter: 3.80 inches	Volume: 61.33 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: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 2000.00 lb
			<u>Total Volume: 61.93 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4489.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	78.00 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			4463.00	
Shut In Tool	5.00			4468.00	
Hydraulic tool	5.00			4473.00	
Jars	5.00			4478.00	
Safety Joint	2.00			4480.00	
Packer	5.00			4485.00	27.00 Bottom Of Top Packer
Packer	4.00			4489.00	
Stubb	1.00			4490.00	
Perforations	1.00			4491.00	
Recorder	0.00	8652	Inside	4491.00	
Recorder	0.00	8322	Outside	4491.00	
Perforations	10.00			4501.00	
Change Over Sub	1.00			4502.00	
Drill Pipe	31.00			4533.00	
Change Over Sub	1.00			4534.00	
Perforations	3.00			4537.00	
Bullnose	3.00			4540.00	51.00 Bottom Packers & Anchor
Total Tool Length:	78.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

14-18s-30w Lane,KS

250 N. Water STE 300
Wichita KS. 67202

Herndon Trust # 1-14

Job Ticket: 45850

DST#: 6

ATTN: Vern Schrag

Test Start: 2012.05.09 @ 01:20:00

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: 71.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% mud (Oil Spots in Tool)	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8652

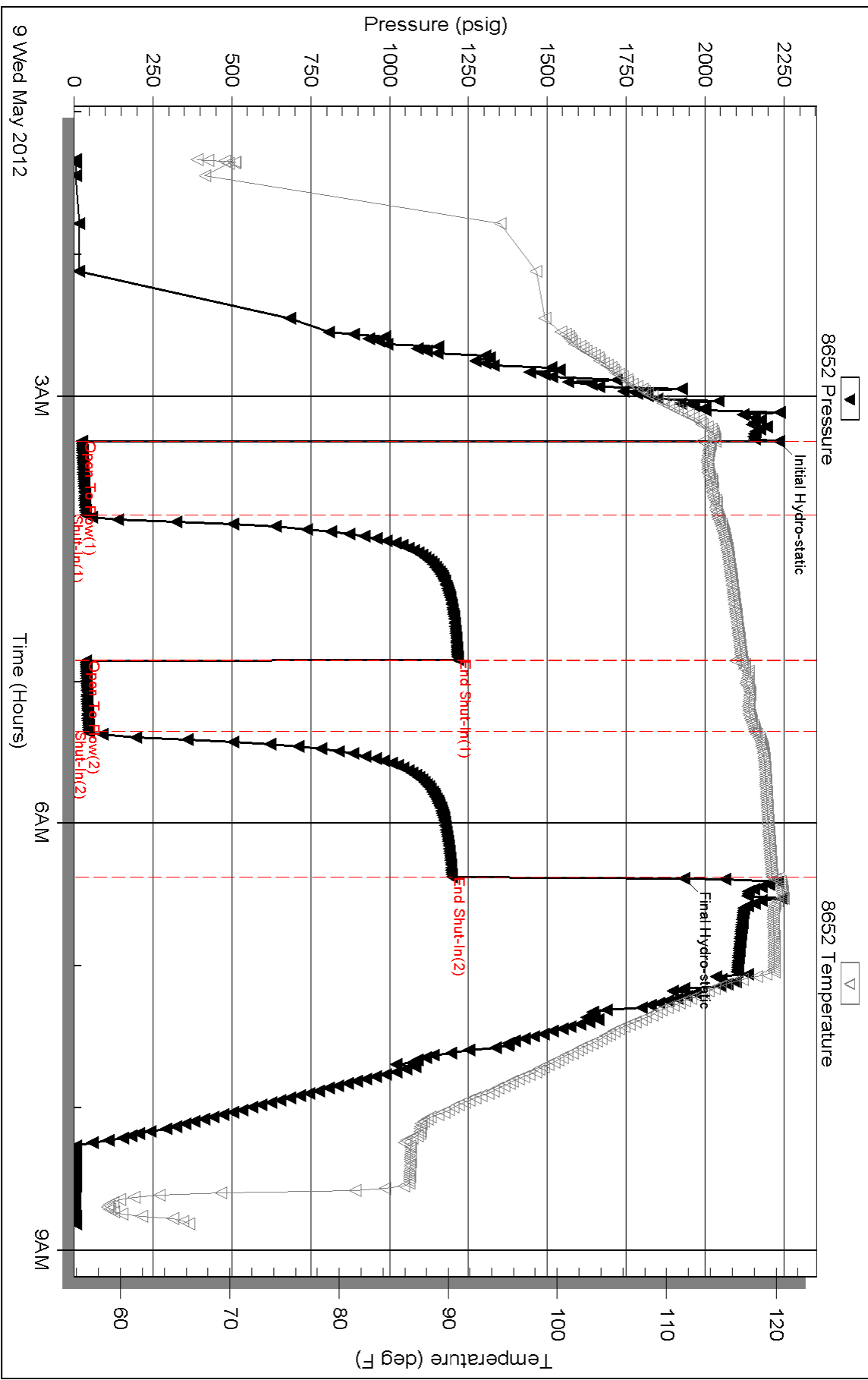
Inside

Murfin Drilling Co. Inc.

Herdon Trust # 1-14

DST Test Number: 6

Pressure vs. Time

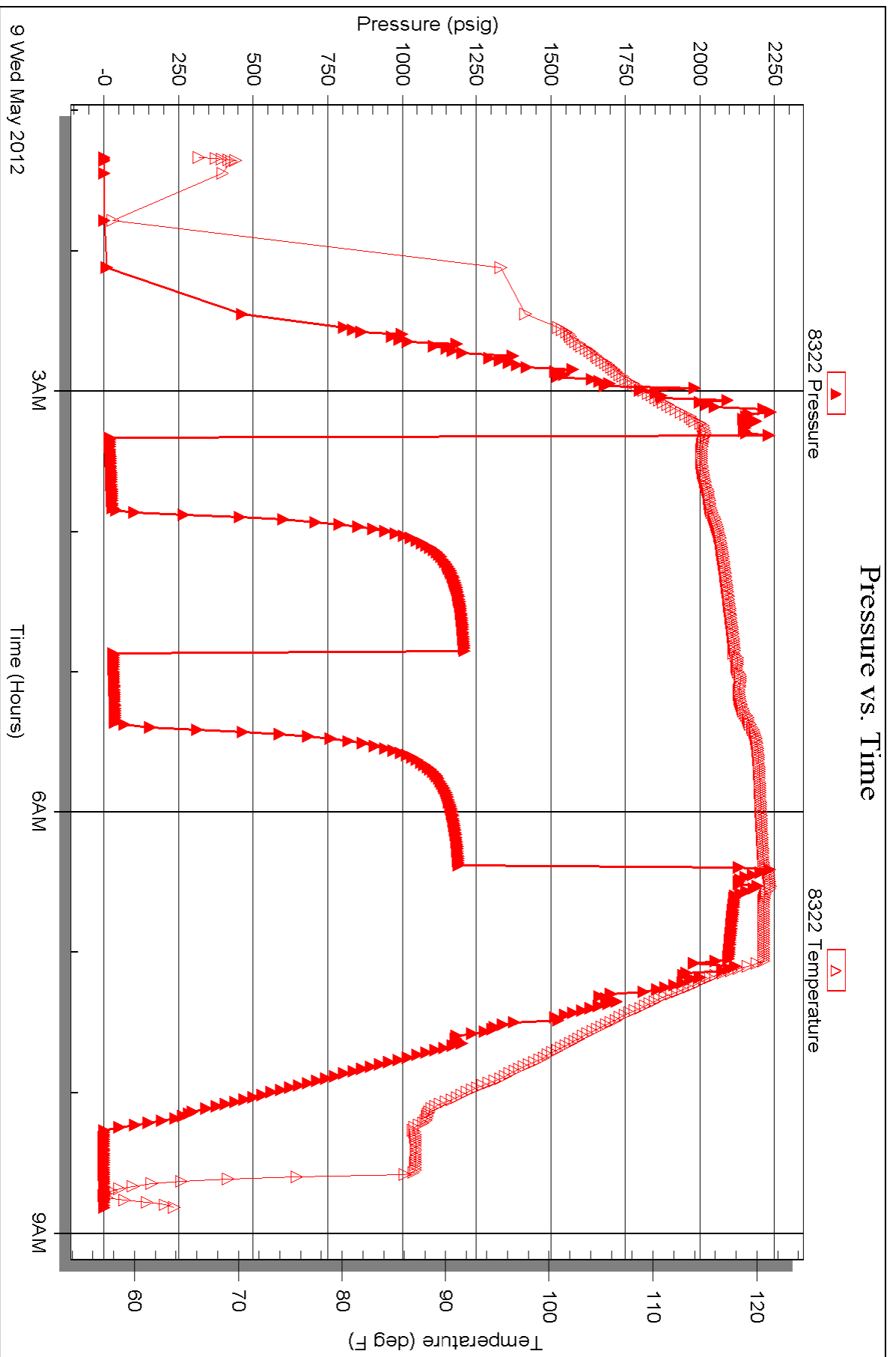


Serial #: 8322

Outside Murfin Drilling Co. Inc.

Herdon Trust # 1-14

DST Test Number: 6





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 45845

Well Name & No. Herndon Trust #1-14 Test No. DST #1 Date 5-4-12
 Company Murfin Drilling Co. Inc. Elevation 2856 KB 2851 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Vern Schrag Rig Murfin Rig #24
 Location: Sec. 14 Twp. 18s Rge. 30W Co. Lane State KS

Interval Tested 4116-4186 Zone Tested Lansing H+I
 Anchor Length 70 Drill Pipe Run 3998 Mud Wt. 9.1
 Top Packer Depth 4112 Drill Collars Run 122 Vis 50
 Bottom Packer Depth 4116 Wt. Pipe Run 0 WL 820
 Total Depth 4186 Chlorides 2000 ppm System LCM 81b
 Blow Description IF-Surface Blow Built to 6 1/4"
ISI- No Blow
FF- Weak Surface Blow in 4min Built to 5"
FST- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
35	G-O	9	91		
53	G-OCM	5	10		85
62	OG-CM	3	2		95
62	G-WCM with skim oil	3		14	83
	101' of G-IP				
Rec Total	212				

BHT 114 Gravity 35 API RW 294 @ 71 °F Chlorides 24000 ppm

(A) Initial Hydrostatic 2036 Test 1250 T-On Location 4:48 16:48
 (B) First Initial Flow 23 Jars 250 T-Started 17:44
 (C) First Final Flow 71 Safety Joint 75 T-Open 19:46
 (D) Initial Shut-In 1010 Circ Sub NIC T-Pulled 23:51
 (E) Second Initial Flow 76 Hourly Standby T-Out 2:08 AM
 (F) Second Final Flow 108 Mileage 36 R/T 55.80 Comments API is 36 @ 70 f = 35
 (G) Final Shut-In 988 Sampler
 (H) Final Hydrostatic 1923 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1630.80
 Accessibility MP/DST Disc't
 Sub Total 1630.80

Approved By Vernon C Schrag Our Representative [Signature]
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Test Ticket

NO. 45846

Well Name & No. Herndon Trust # 1-14 Test No. O5T #2 Date 5-5-12
 Company Murfin Drilling Co. Inc Elevation 2856 KB 2851 GL
 Address 250 N. Water STE 300 Wichita Ks 67202
 Co. Rep / Geo. Vern Schrag Rig Murfin Rig 24
 Location: Sec. 14 Twp. 18s Rge. 30W Co. Lane State KS

Interval Tested 4193-4210 Zone Tested Lansing "J"
 Anchor Length 17 Drill Pipe Run 4060 Mud Wt. 9.1
 Top Packer Depth 4189 Drill Collars Run 122 Vis 50
 Bottom Packer Depth 4193 Wt. Pipe Run 0 WL 8.0
 Total Depth 4210 Chlorides 2000 ppm System LCM 816
 Blow Description IF- Surface Blow Built to 7 1/2
ISI- No Blow
FF- Weak Surface Blow Built to 5 1/4"
FSI- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>GOil</u>	<u>3</u>	<u>97</u>		
<u>108</u>	<u>MCW (skin of 0.1)</u>			<u>72</u>	<u>28</u>
<u>189</u>	<u>MCW</u>			<u>92</u>	<u>8</u>
<u>248</u>	<u>MCW</u>			<u>97</u>	<u>3</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 550 BHT 122 Gravity API RW 118 @ 96 °F Chlorides 43000 ppm
 (A) Initial Hydrostatic 2072 Test 1250 T-On Location 10:04
 (B) First Initial Flow 20 Jars 250 T-Started 10:42
 (C) First Final Flow 127 Safety Joint 75 T-Open 12:44
 (D) Initial Shut-In 687 Circ Sub N/C T-Pulled 16:50
 (E) Second Initial Flow 129 Hourly Standby T-Out 19:00
 (F) Second Final Flow 261 Mileage 36 R/T 55.80 Comments _____
 (G) Final Shut-In 685 Sampler _____
 (H) Final Hydrostatic 1895 Straddle _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 60 Ruined Packer _____
 Final Flow 60 Extra Packer _____
 Final Shut-In 90 Extra Recorder _____
 Sub Total 0
 Total 1630.80
 MP/DST Disc't _____

Approved By Vernon C Schrag Our Representative Will Mar

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Test Ticket

NO. 45847

Well Name & No. Herndon Trust #1-14 Test No. DST #3 Date 5-6-12
 Company Murfin Drilling Co Inc Elevation 2856 KB 2851 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Vern Schrag Rig Murfin Rs #24
 Location: Sec. 14 Twp. 18S Rge. 30W Co. Lane State KS

Interval Tested 4218-4250 Zone Tested Lansing "K"
 Anchor Length 32' Drill Pipe Run 4090 Mud Wt. 9.4
 Top Packer Depth 4214 Drill Collars Run 122 Vis 53
 Bottom Packer Depth 4218 Wt. Pipe Run 0 WL 8-0
 Total Depth 4250 Chlorides 2300 ppm System LCM 6 1/2 lb
 Blow Description IF - Strong Surface Blow Built to BOB in 3 min
ISI - Weak Surface Blow in 5 min Built to 234"
FF - Surface Blow Built to BOB in 6 min
FSI - Weak Surface Blow in 11 min Built to 34" Diced in 48 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>172</u>	<u>0-0</u>	<u>15</u>	<u>85</u>		
<u>252</u>	<u>0-0</u>	<u>27</u>	<u>73</u>		
<u>113</u>	<u>0-0</u>	<u>18</u>	<u>82</u>		
<u>132</u>	<u>WOGCM</u>	<u>30</u>	<u>11</u>	<u>4</u>	<u>55</u>
Rec	Feet of <u>330' of OIP</u>	%gas	%oil	%water	%mud
Rec Total	<u>669</u>	BHT <u>118</u>	Gravity <u>33</u>	API RW @ _____ °F	Chlorides _____ ppm

(A) Initial Hydrostatic 2074 Test 1250 T-On Location 3:50
 (B) First Initial Flow 49 Jars 250 T-Started 4:34
 (C) First Final Flow 147 Safety Joint 75 T-Open 6:35
 (D) Initial Shut-In 744 Circ Sub N/C T-Pulled 9:27
 (E) Second Initial Flow 156 Hourly Standby _____ T-Out 12:06
 (F) Second Final Flow 269 Mileage 36 R/T 55.80 Comments _____
 (G) Final Shut-In 704 Sampler _____ API is 33 @ 60f = 33
 (H) Final Hydrostatic 1910 Straddle _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Sub Total 0
 Total 1630.80
 MP/DST Disc't _____
 Sub Total 1630.80

Approved By Vernon Schrag Our Representative Will [Signature]
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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 45848

Well Name & No. Herndon Trust #1-14 Test No. DST #4 Date 5-6-12
 Company Murfin Drilling Co. Inc. Elevation 2856 KB 2851 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Vern Schrag Rig Murfin Rig #24
 Location: Sec. 14 Twp. 18s Rge. 30w Co. Lane State KS

Interval Tested 4252-4300 Zone Tested Lansing "L"
 Anchor Length 48 Drill Pipe Run 4120 Mud Wt. 9.4
 Top Packer Depth 4248 Drill Collars Run 122 Vis 64
 Bottom Packer Depth 4252 Wt. Pipe Run 0 WL 7.6
 Total Depth 4300 Chlorides 2000 ppm System LCM 716

Blow Description IF- Strong Surface Blow Built to BOB in 1 1/4 min
ISI- Weak Surface Blow in 8 min Built to 2 1/4"
FF- Surface Blow Built to BOB in 2 1/2 min
FSI Weak Surface Blow in 11 min Built to 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
315	G-O	23	77		
1008	G-O	19	81		
124	GOCM GMCO	10	54		36
61	GOCM	10	12		78

Rec Total _____ BHT 121 Gravity 36 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2098 Test 1250 T-On Location 21:56
 (B) First Initial Flow 125 Jars 250 T-Started 22:26
 (C) First Final Flow 306 Safety Joint 75 T-Open 00:25
 (D) Initial Shut-In 868 Circ Sub Dropped the Bar⁵⁰ T-Pulled 3:26
 (E) Second Initial Flow 314 Hourly Standby _____ T-Out 6:49
 (F) Second Final Flow 564 Mileage 36 RIT 55.80 Comments _____
 (G) Final Shut-In 725 Sampler _____ API is 35 @ 50°F = 36
 (H) Final Hydrostatic 1931 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1680.80
 Accessibility _____ MP/DST Disc't _____

Sub Total 1680.80

Approved By _____ Our Representative W. M. M.

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TRILOBITE TESTING INC.

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Test Ticket

NO. **45849**

Well Name & No. Herndon Trust #1-14 Test No. DST #5 Date 5-7-12
 Company Murfin Drilling Co. Inc Elevation 2856 KB 2851 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Vern Schrag Rig Murfin Rig #24
 Location: Sec. 14 Twp. 18S Rge. 30W Co. Lane State KS

Interval Tested 4298 - 4410 Zone Tested Pleaston / Marmation
 Anchor Length 112 Drill Pipe Run 4154 Mud Wt. 9.1
 Top Packer Depth 4294 Drill Collars Run 122 Vis 89
 Bottom Packer Depth 4298 Wt. Pipe Run 0 WL 6.8
 Total Depth 4410 Chlorides 2700 ppm System LCM 716

Blow Description IF - Surface Blow Built to 4"
ISI - No Blow
FF - Surface Blow Built to 2 3/4"
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
10	GO	8	92		
20	60CM	3	10		87
122	00CM	12	7		81
	126' of GIP				

Rec Total _____ BHT 112 Gravity 35 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2124 Test 1250 T-On Location 20:34
 (B) First Initial Flow 27 Jars 250 T-Started 21:28
 (C) First Final Flow 63 Safety Joint 75 T-Open 23:27
 (D) Initial Shut-In 1049 Circ Sub NIC T-Pulled 3:34
 (E) Second Initial Flow 62 Hourly Standby _____ T-Out 5:53
 (F) Second Final Flow 85 Mileage 36 RIT 55.80 Comments API is 34 @ 50t = 35
 (G) Final Shut-In 1029 Sampler _____
 (H) Final Hydrostatic 1988 Straddle _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer 320
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30 Sub Total 320
 Initial Shut-In 60 Total 1950.80
 Final Flow 60 MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1630.80

Approved By Vern Schrag Our Representative Will M...
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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 45850

Well Name & No. Herndon Trust #1-14 Test No. DST #6 Date 5-9-12
 Company Murfin Drilling Co. Inc Elevation 2856 KB 2851 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Vern Schrag Rig Murfin Rig #24
 Location: Sec. 14 Twp. 18s Rge. 30w Co. Lane State KS

Interval Tested 4489-4540 Zone Tested Cherokee
 Anchor Length 51 Drill Pipe Run 4372 Mud Wt. 9.1
 Top Packer Depth 4485 Drill Collars Run 122 Vis 71
 Bottom Packer Depth 4489 Wt. Pipe Run 0 WL 7.2
 Total Depth 4540 Chlorides 2700 ppm System LCM 6 1/2 lb

Blow Description IF - Weak Surface Blow 1/4"
ISI - No Blow
FF - No Blow
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud (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 10 BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2233 Test 1250 T-On Location 00:10
 (B) First Initial Flow 25 Jars 250 T-Started 1:20
 (C) First Final Flow 36 Safety Joint 75 T-Open 3:18
 (D) Initial Shut-In 1216 Circ Sub N/C T-Pulled 6:23
 (E) Second Initial Flow 38 Hourly Standby _____ T-Out 8:48
 (F) Second Final Flow 45 Mileage 36 R/T 55.80 Comments _____
 (G) Final Shut-In 1197 Sampler _____ Ruined Shale Packer _____
 (H) Final Hydrostatic 1933 Straddle _____ Ruined Packer _____
 Shale Packer _____ Extra Copies _____
 Extra Packer _____ Sub Total 0
 Extra Recorder _____ Total 1630.80
 Day Standby _____ MP/DST Disc't _____
 Accessibility _____
 Sub Total 1630.80

Approved By _____ Our Representative Will Mas
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