



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS. 67202

ATTN: Clayton Erickson

Diasis #1-11

11-1s-35w Rawlins,KS

Start Date: 2014.03.15 @ 14:00:00

End Date: 2014.03.16 @ 01:46:30

Job Ticket #: 56163 DST #: 1

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

Printed: 2014.03.21 @ 17:40:37



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

11-1s-35w Rawlins,KS

250 N Water Ste 300
Wichita KS. 67202

Diasis #1-11

Job Ticket: 56163

DST#: 1

ATTN: Clayton Erickson

Test Start: 2014.03.15 @ 14:00:00

GENERAL INFORMATION:

Formation: **Foraker**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:48:00

Time Test Ended: 01:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 67

Interval: 3615.00 ft (KB) To 3673.00 ft (KB) (TVD)

Reference Elevations: 3167.00 ft (KB)

Total Depth: 3673.00 ft (KB) (TVD)

3157.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6625 Outside

Press@RunDepth: 57.24 psig @ 3651.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.15

End Date:

2014.03.16

Last Calib.: 2014.03.15

Start Time: 14:00:01

End Time:

01:46:30

Time On Btm: 2014.03.15 @ 20:47:00

Time Off Btm: 2014.03.15 @ 23:55:30

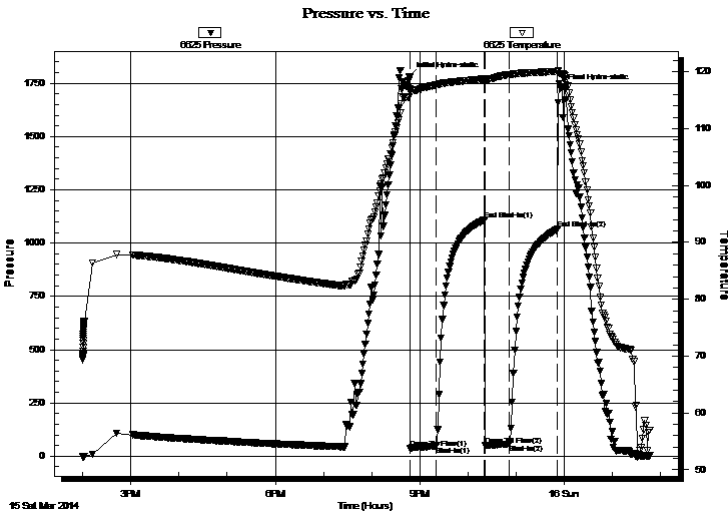
TEST COMMENT: I.F. - 30 - Weak surface blow built to 1 1/2"

I.S.I. - 60 - No blow back

F.F. - 30 - No blow

F.S.I. - 60 - No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1781.59	116.73	Initial Hydro-static
1	37.73	116.72	Open To Flow (1)
33	47.91	117.66	Shut-In(1)
94	1108.74	118.74	End Shut-In(1)
94	49.19	118.56	Open To Flow (2)
124	57.24	119.50	Shut-In(2)
185	1065.09	120.06	End Shut-In(2)
189	1726.70	119.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	S,O,S,M 5% OIL 95% MUD	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

11-1s-35w Rawlins,KS

250 N Water Ste 300
Wichita KS. 67202

Diasis #1-11

Job Ticket: 56163

DST#: 1

ATTN: Clayton Erickson

Test Start: 2014.03.15 @ 14:00:00

Tool Information

Drill Pipe:	Length: 3052.00 ft	Diameter: 3.80 inches	Volume: 42.81 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	70000.00 lb
Drill Pipe Above KB:	15.00 ft			Final	70000.00 lb
Depth to Top Packer:	3615.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	58.00 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			3596.00	
Shut In Tool	5.00			3601.00	
Hydraulic tool	5.00			3606.00	
Packer	4.00			3610.00	20.00 Bottom Of Top Packer
Packer	5.00			3615.00	
Stubb	1.00			3616.00	
Perforations	2.00			3618.00	
Change Over Sub	1.00			3619.00	
Drill Pipe	31.00			3650.00	
Change Over Sub	1.00			3651.00	
Recorder	0.00	6625	Outside	3651.00	
Recorder	0.00	8166	Inside	3651.00	
Perforations	18.00			3669.00	
Bullnose	4.00			3673.00	58.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

11-1s-35w Rawlins,KS

250 N Water Ste 300
Wichita KS. 67202

Diasis #1-11

Job Ticket: 56163

DST#: 1

ATTN: Clayton Erickson

Test Start: 2014.03.15 @ 14:00:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	S,O,S,M 5% OIL 95% MUD	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

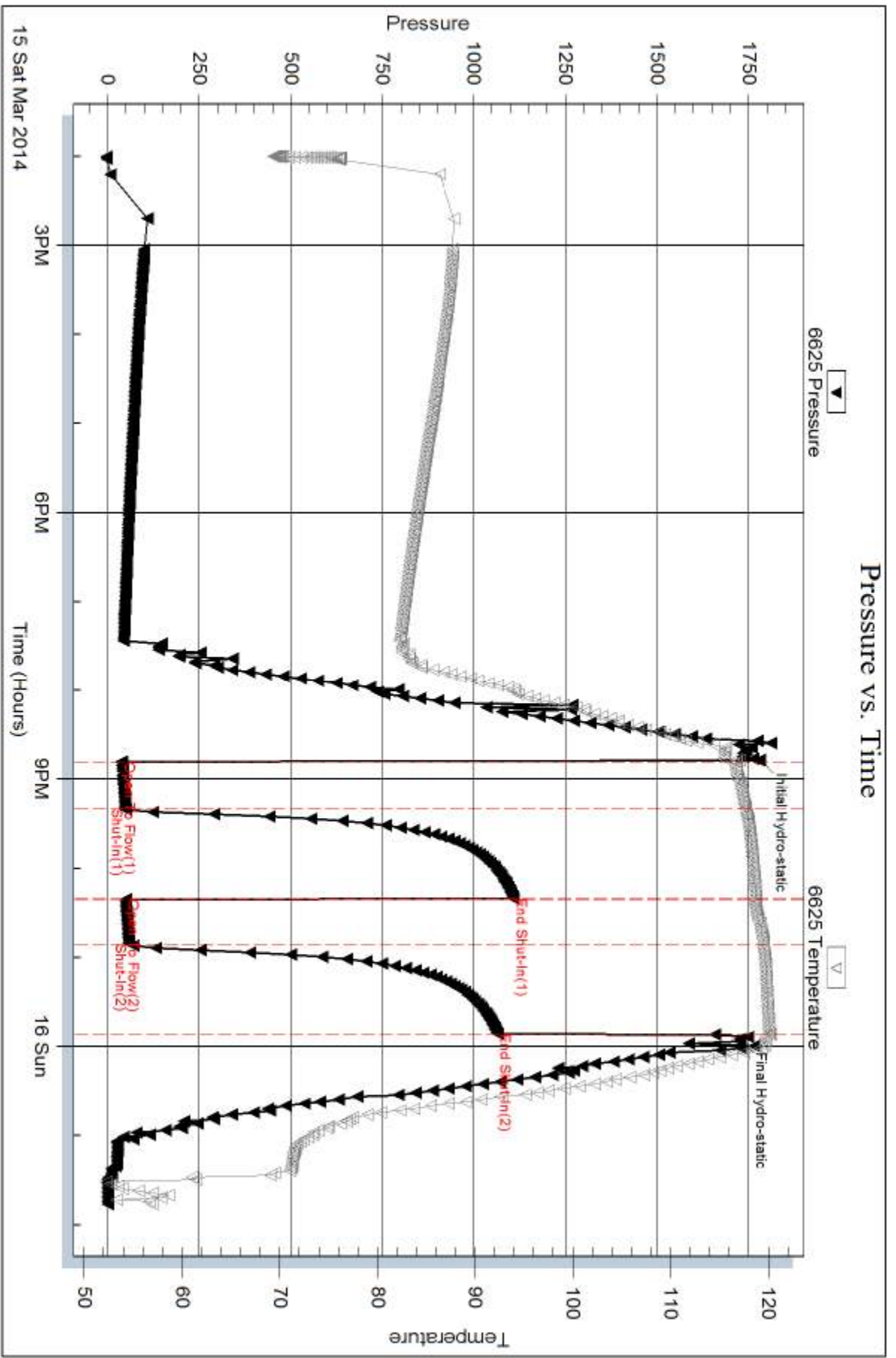
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



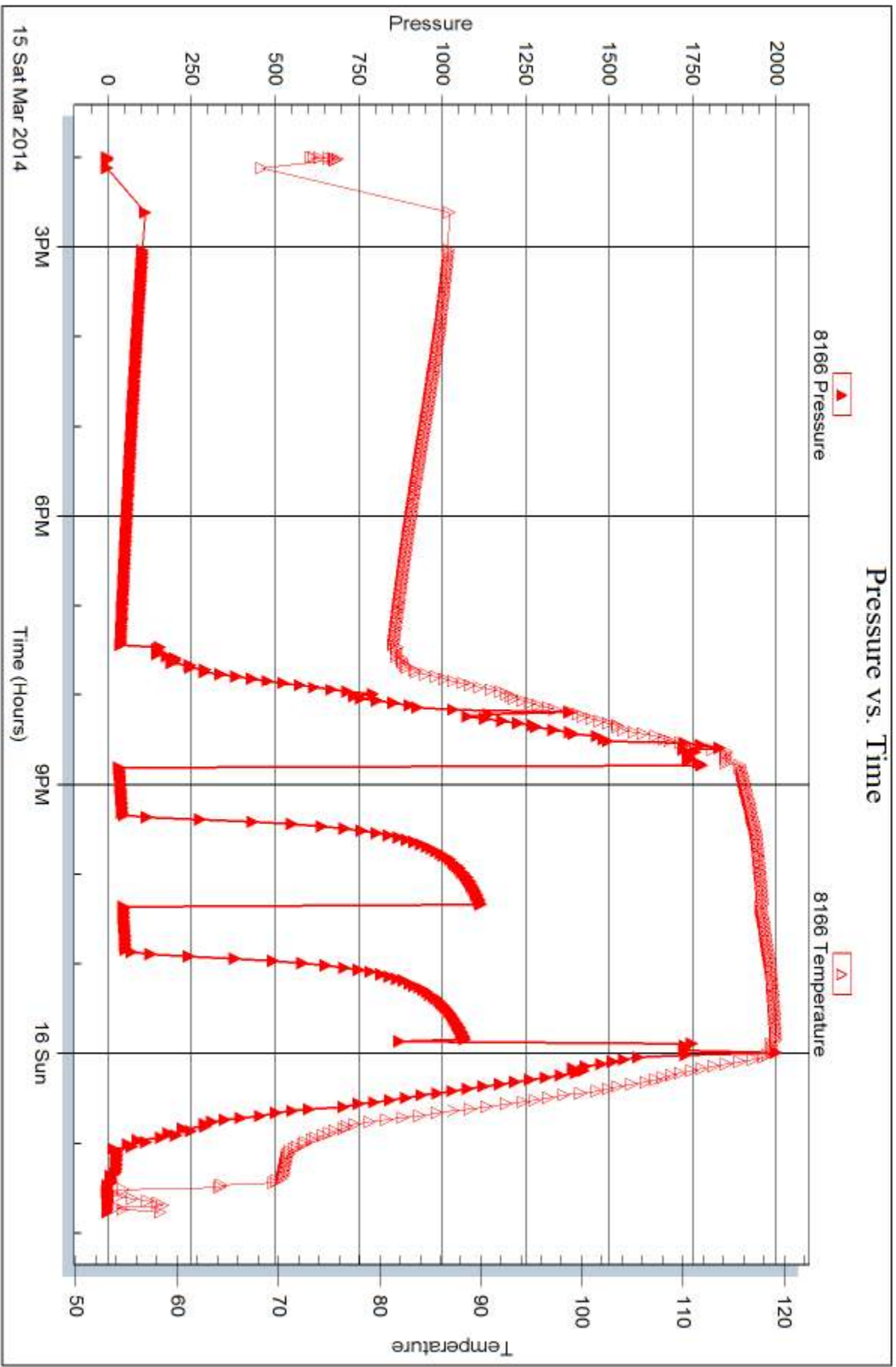
Serial #: 8166

Inside

Murfin Drilling Co

Dasis #1-11

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56163

Printed: 2014.03.21 @ 17:40:40



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS. 67202

ATTN: Clayton Erickson

Diasis #1-11

11-1s-35w Rawlins,KS

Start Date: 2014.03.16 @ 14:30:00

End Date: 2014.03.16 @ 23:04:00

Job Ticket #: 56164 DST #: 2

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

Printed: 2014.03.21 @ 17:38:15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

11-1s-35w Rawlins,KS

250 N Water Ste 300
Wichita KS. 67202

Diasis #1-11

Job Ticket: 56164

DST#: 2

ATTN: Clayton Erickson

Test Start: 2014.03.16 @ 14:30:00

GENERAL INFORMATION:

Formation: **Stotler**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:36:00

Time Test Ended: 23:04:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 67

Interval: 3692.00 ft (KB) To 3820.00 ft (KB) (TVD)

Reference Elevations: 3167.00 ft (KB)

Total Depth: 3820.00 ft (KB) (TVD)

3157.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8679

Inside

Press@RunDepth: 211.82 psig @ 3790.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.16

End Date:

2014.03.16

Last Calib.:

2014.03.16

Start Time: 14:30:01

End Time:

23:04:00

Time On Btm:

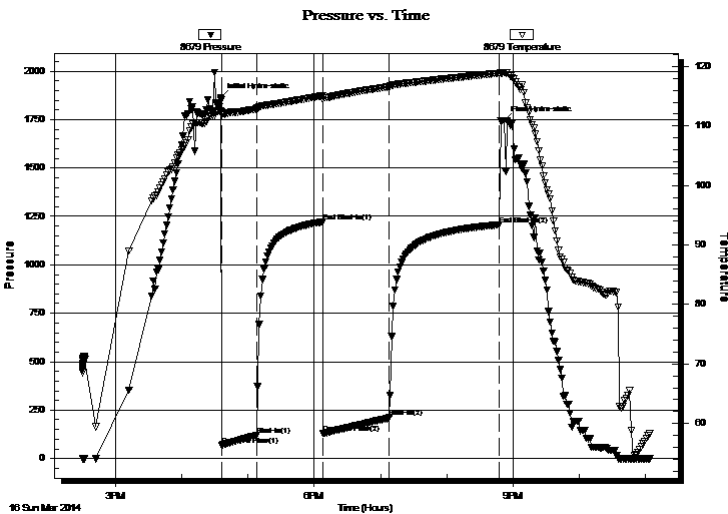
2014.03.16 @ 16:35:00

Time Off Btm:

2014.03.16 @ 20:52:00

TEST COMMENT: I.F. - 30 - Weak surface blow built to 2 1/2"
I.S.I. - 60 - No blow back
F.F. - 60 - Weak surface blow built to 5 1/2"
F.S.I. - 90 - No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1861.50	112.46	Initial Hydro-static
1	68.92	111.91	Open To Flow (1)
33	118.45	112.86	Shut-In(1)
93	1221.21	115.06	End Shut-In(1)
93	128.88	114.43	Open To Flow (2)
153	211.82	116.62	Shut-In(2)
253	1206.10	118.87	End Shut-In(2)
257	1743.08	118.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	O,C,M,W, 10% OIL 30% MUD 60% WA	10.46
186.00	O,C,M, 15% OIL 85% MUD	0.91
5.00	CLEAN OIL 100%	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

11-1s-35w Rawlins,KS

250 N Water Ste 300
Wichita KS. 67202

Diasis #1-11

Job Ticket: 56164

DST#: 2

ATTN: Clayton Erickson

Test Start: 2014.03.16 @ 14:30:00

Tool Information

Drill Pipe:	Length: 3119.00 ft	Diameter: 3.80 inches	Volume: 43.75 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	74000.00 lb
Drill Pipe Above KB:	5.00 ft			Final	75000.00 lb
Depth to Top Packer:	3692.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	128.00 ft				
Tool Length:	148.00 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			3673.00	
Shut In Tool	5.00			3678.00	
Hydraulic tool	5.00			3683.00	
Packer	4.00			3687.00	20.00 Bottom Of Top Packer
Packer	5.00			3692.00	
Stubb	1.00			3693.00	
Perforations	2.00			3695.00	
Change Over Sub	1.00			3696.00	
Drill Pipe	93.00			3789.00	
Change Over Sub	1.00			3790.00	
Recorder	0.00	6625	Outside	3790.00	
Recorder	0.00	8679	Inside	3790.00	
Perforations	26.00			3816.00	
Bullnose	4.00			3820.00	128.00 Bottom Packers & Anchor

Total Tool Length: 148.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

11-1s-35w Rawlins,KS

250 N Water Ste 300
Wichita KS. 67202

Diasis #1-11

Job Ticket: 56164

DST#: 2

ATTN: Clayton Erickson

Test Start: 2014.03.16 @ 14:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

95000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.08 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
93.00	O,C,M,W, 10% OIL 30% MUD 60% WATER	0.457
186.00	O,C,M, 15% OIL 85% MUD	0.915
5.00	CLEAN OIL 100%	0.025

Total Length: 284.00 ft Total Volume: 1.397 bbl

Num Fluid Samples: 0

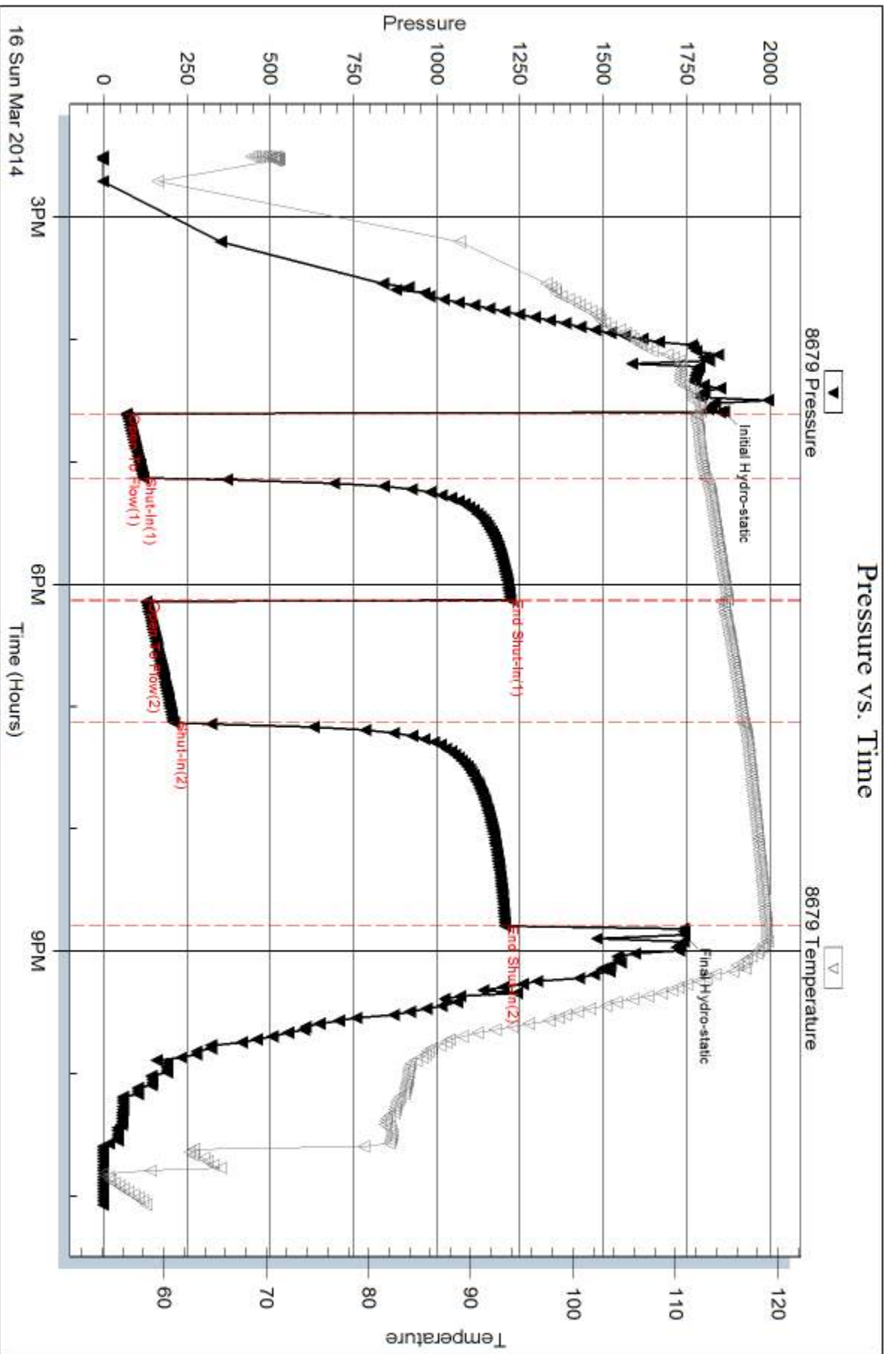
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: R.W. = .16 OHMS @ 42 DEG. OIL GRAVITY = 26.8 @ 60 DEG.

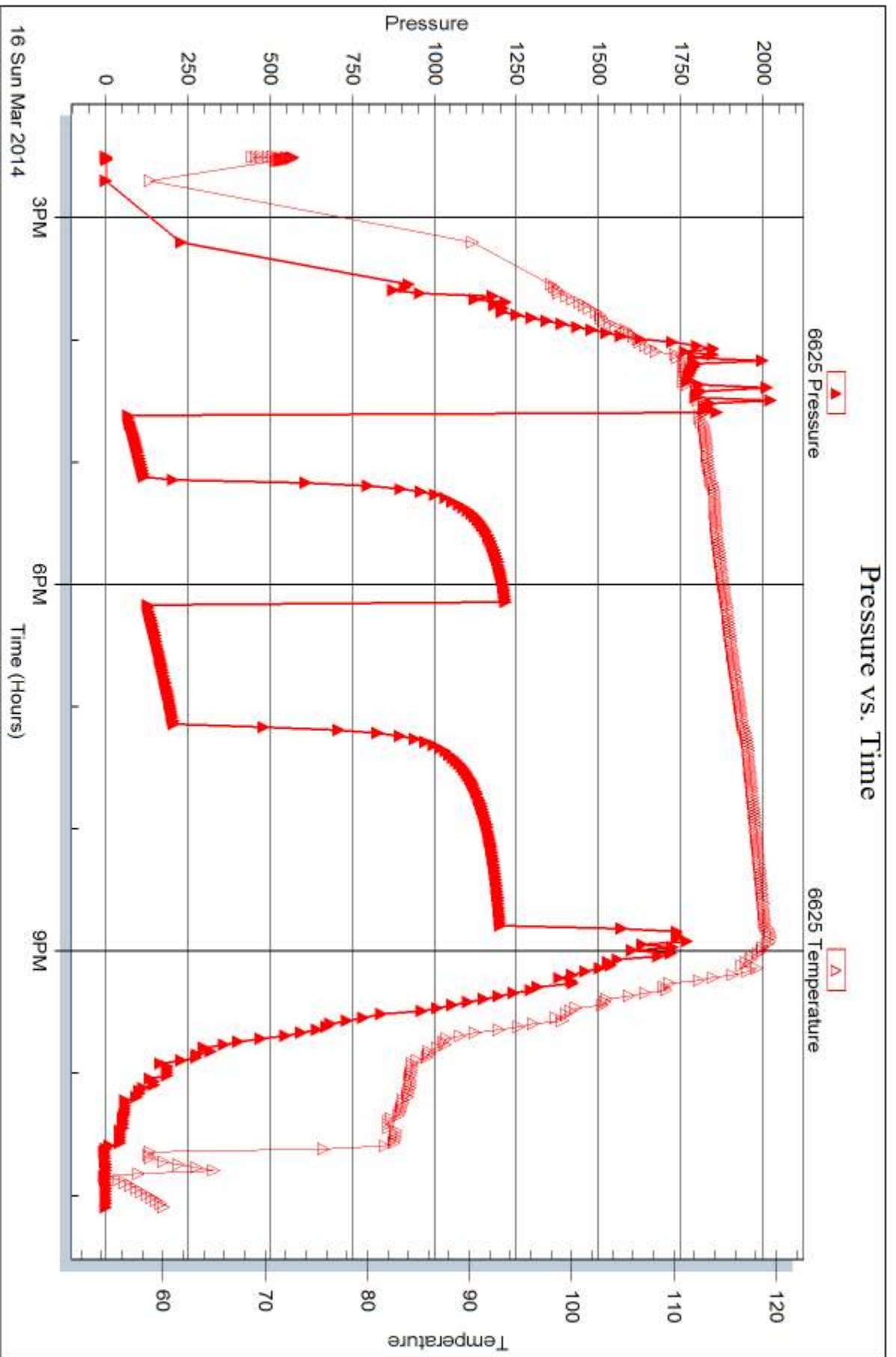


Serial #: 6625

Outside Murfin Drilling Co

Dasis #1-11

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56164

Printed: 2014.03.21 @ 17:38:18



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS. 67202

ATTN: Clayton Erickson

Diasis #1-11

11-1s-35w Rawlins,KS

Start Date: 2014.03.18 @ 02:25:00

End Date: 2014.03.18 @ 10:54:00

Job Ticket #: 56165 DST #: 3

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

Printed: 2014.03.21 @ 17:37:23

Murfin Drilling Co
11-1s-35w Rawlins,KS
Diasis #1-11
DST # 3
Oread - LKC
2014.03.18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co

11-1s-35w Rawlins,KS

250 N Water Ste 300
Wichita KS. 67202

Diasis #1-11

Job Ticket: 56165

DST#: 3

ATTN: Clayton Erickson

Test Start: 2014.03.18 @ 02:25:00

GENERAL INFORMATION:

Formation: **Oread - LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:59:00

Time Test Ended: 10:54:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 67

Interval: 4005.00 ft (KB) To 4160.00 ft (KB) (TVD)

Reference Elevations: 3167.00 ft (KB)

Total Depth: 4160.00 ft (KB) (TVD)

3157.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8679

Inside

Press@RunDepth: 339.47 psig @ 4131.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.18

End Date:

2014.03.18

Last Calib.:

2014.03.18

Start Time: 02:25:01

End Time:

10:54:00

Time On Btm:

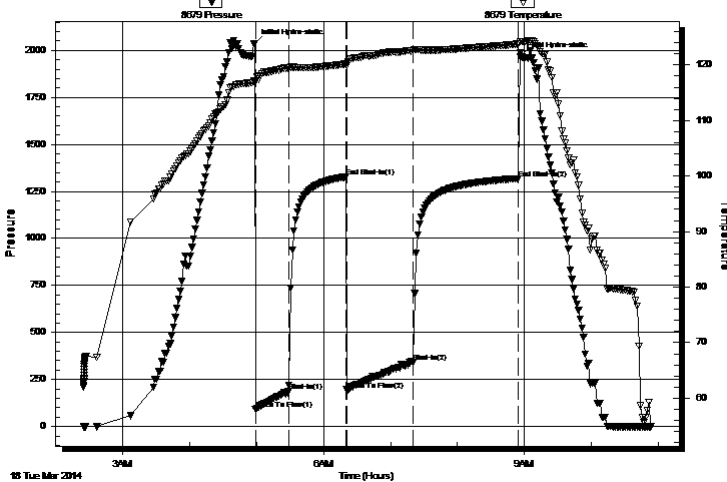
2014.03.18 @ 04:58:00

Time Off Btm:

2014.03.18 @ 08:56:30

TEST COMMENT: I.F. - 30 - Weak blow built to 5 1/2"
I.S.I. - 60 - No blow back
F.F. - 60 - Weak surface blow built to 5 1/2"
F.S.I - 90 - No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2036.36	117.22	Initial Hydro-static
1	90.05	117.01	Open To Flow (1)
31	186.55	119.45	Shut-In(1)
82	1326.93	120.20	End Shut-In(1)
83	194.35	119.93	Open To Flow (2)
142	339.47	122.63	Shut-In(2)
237	1318.63	123.77	End Shut-In(2)
239	1966.02	124.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
505.00	S,O,S,M, (SCUM OF OIL) 99% MUD	2.48

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

11-1s-35w Rawlins,KS

250 N Water Ste 300
Wichita KS. 67202

Diasis #1-11

Job Ticket: 56165

DST#: 3

ATTN: Clayton Erickson

Test Start: 2014.03.18 @ 02:25:00

Tool Information

Drill Pipe:	Length: 3439.00 ft	Diameter: 3.80 inches	Volume: 48.24 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose:	78000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	74000.00 lb
Drill Pipe Above KB:	12.00 ft			Final	74000.00 lb
Depth to Top Packer:	4005.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	155.00 ft				
Tool Length:	175.00 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			3986.00	
Shut In Tool	5.00			3991.00	
Hydraulic tool	5.00			3996.00	
Packer	4.00			4000.00	20.00 Bottom Of Top Packer
Packer	5.00			4005.00	
Stubb	1.00			4006.00	
Change Over Sub	1.00			4007.00	
Drill Pipe	123.00			4130.00	
Change Over Sub	1.00			4131.00	
Recorder	0.00	6625	Outside	4131.00	
Recorder	0.00	8679	Inside	4131.00	
Perforations	25.00			4156.00	
Bullnose	4.00			4160.00	155.00 Bottom Packers & Anchor

Total Tool Length: 175.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

11-1s-35w Rawlins,KS

250 N Water Ste 300
Wichita KS. 67202

Diasis #1-11

Job Ticket: 56165

DST#: 3

ATTN: Clayton Erickson

Test Start: 2014.03.18 @ 02:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
505.00	S,O,S,M, (SCUM OF OIL) 99% MUD	2.484

Total Length: 505.00 ft Total Volume: 2.484 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

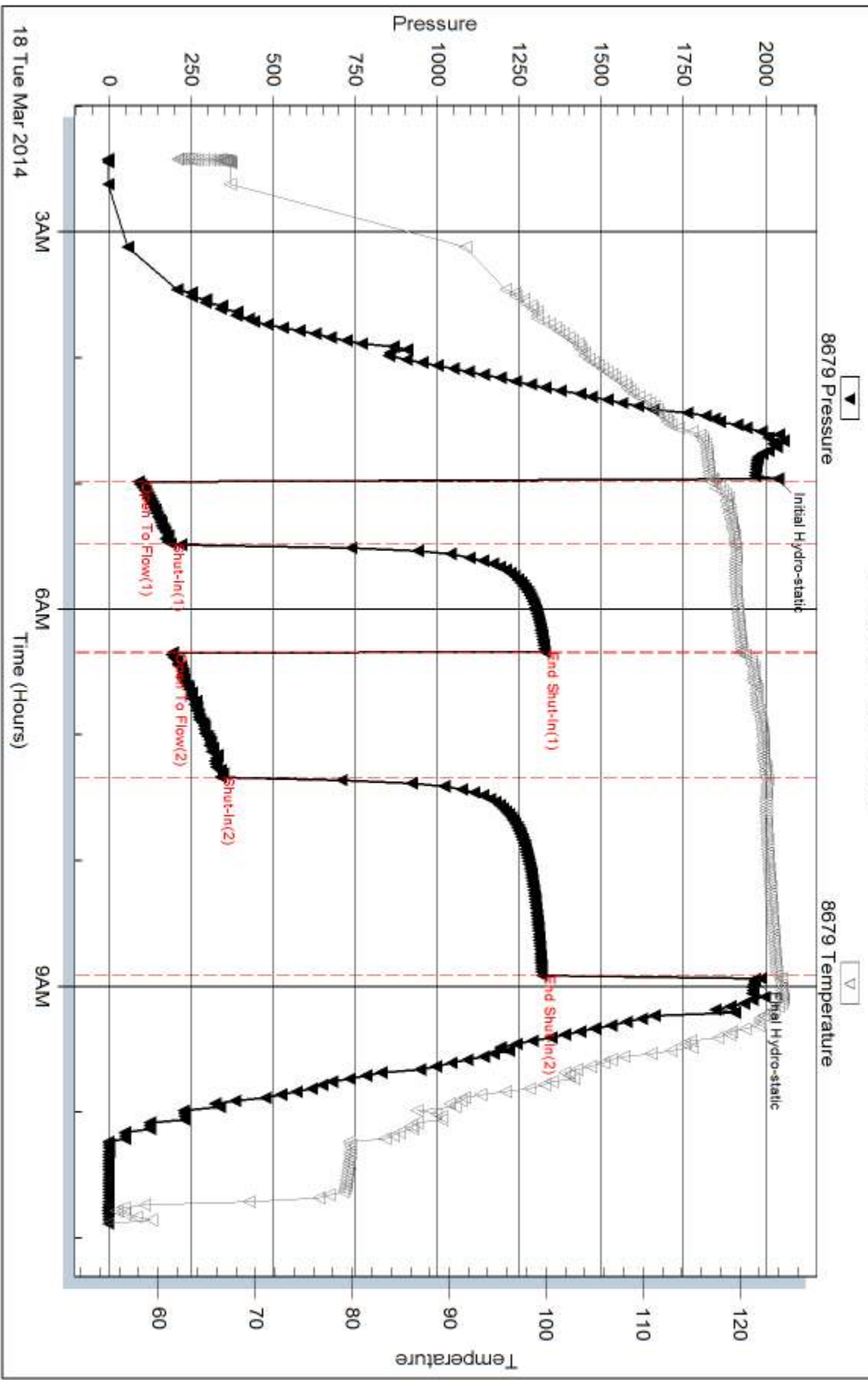
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

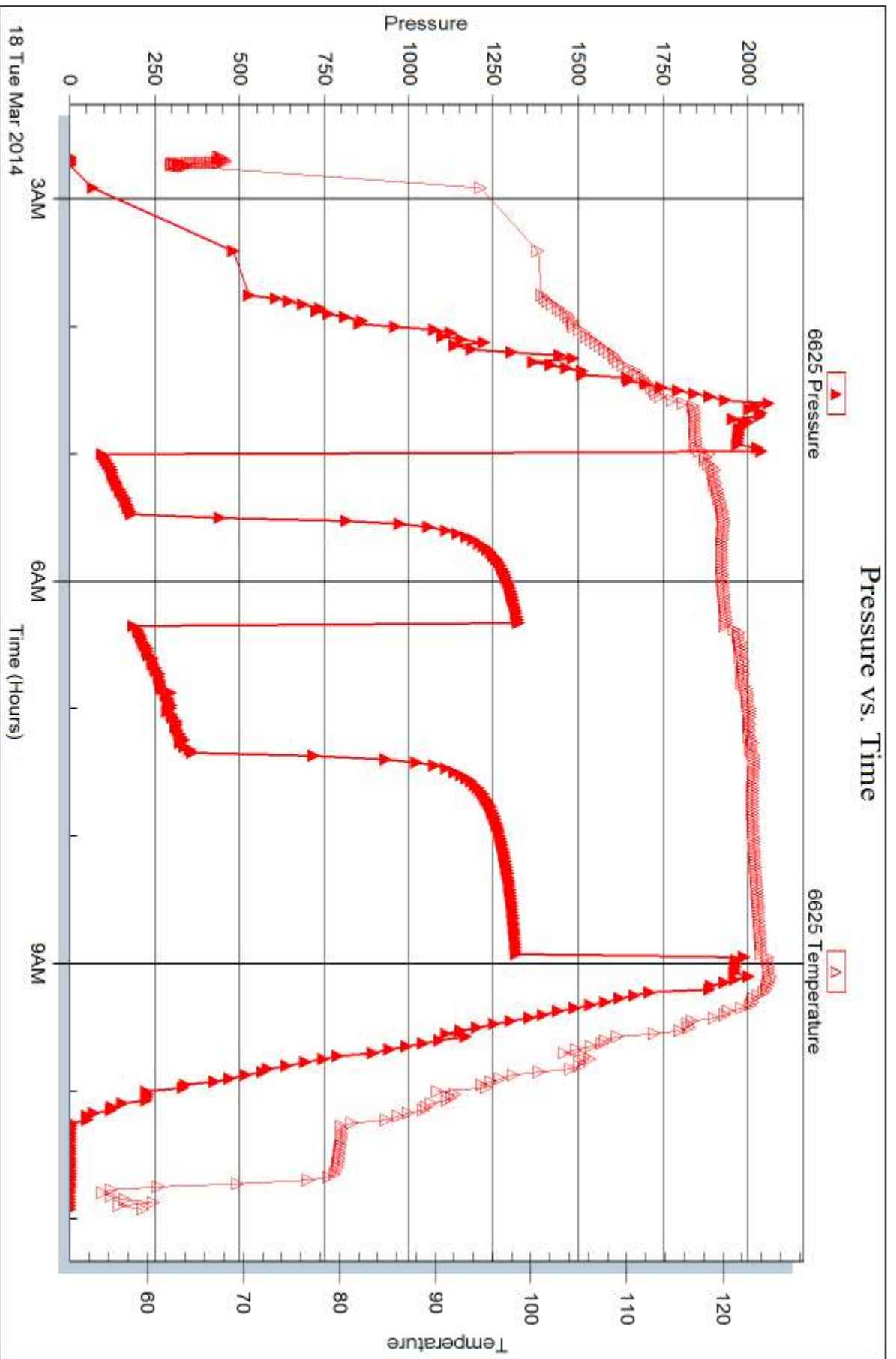


Serial #: 6625

Outside Murfin Drilling Co

Dasis #1-11

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 56165

Printed: 2014.03.21 @ 17:37:25



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS. 67202

ATTN: Clayton Erickson

Diasis #1-11

11-1s-35w Rawlins,KS

Start Date: 2014.03.19 @ 06:20:00

End Date: 2014.03.19 @ 13:06:30

Job Ticket #: 56166 DST #: 4

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

Printed: 2014.03.21 @ 17:36:41



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

11-1s-35w Rawlins,KS

250 N Water Ste 300
Wichita KS. 67202

Diasis #1-11

Job Ticket: 56166

DST#: 4

ATTN: Clayton Erickson

Test Start: 2014.03.19 @ 06:20:00

GENERAL INFORMATION:

Formation: **LKC " G - H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:10:00

Time Test Ended: 13:06:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 67

Interval: 4150.00 ft (KB) To 4254.00 ft (KB) (TVD)

Reference Elevations: 3167.00 ft (KB)

Total Depth: 4254.00 ft (KB) (TVD)

3157.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8679

Inside

Press@RunDepth: 33.39 psig @ 4153.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.19

End Date:

2014.03.19

Last Calib.:

2014.03.19

Start Time: 06:20:01

End Time:

13:06:30

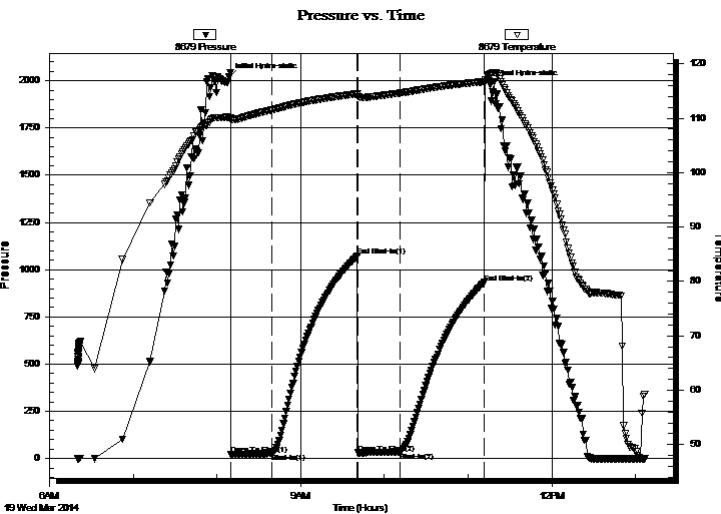
Time On Btm:

2014.03.19 @ 08:08:30

Time Off Btm:

2014.03.19 @ 11:16:00

TEST COMMENT: I.F. - 30 - 1Weak surface blow throughout
I.S.I. - 60 - No blow back
F.F. - 30 - No blow
F.S.I. - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2020.10	110.16	Initial Hydro-static
2	20.29	109.66	Open To Flow (1)
31	26.97	111.53	Shut-In(1)
92	1071.63	114.48	End Shut-In(1)
93	30.08	114.03	Open To Flow (2)
123	33.39	114.61	Shut-In(2)
183	932.60	116.74	End Shut-In(2)
188	1982.15	118.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD 100%	0.02

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

11-1s-35w Rawlins,KS

250 N Water Ste 300
Wichita KS. 67202

Diasis #1-11

Job Ticket: 56166

DST#: 4

ATTN: Clayton Erickson

Test Start: 2014.03.19 @ 06:20:00

Tool Information

Drill Pipe:	Length: 3593.00 ft	Diameter: 3.80 inches	Volume: 50.40 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	4150.00 ft			Final	74000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	104.00 ft				
Tool Length:	124.00 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			4131.00	
Shut In Tool	5.00			4136.00	
Hydraulic tool	5.00			4141.00	
Packer	4.00			4145.00	20.00 Bottom Of Top Packer
Packer	5.00			4150.00	
Stubb	1.00			4151.00	
Perforations	2.00			4153.00	
Recorder	0.00	6625	Outside	4153.00	
Recorder	0.00	8679	Inside	4153.00	
Change Over Sub	1.00			4154.00	
Drill Pipe	95.00			4249.00	
Change Over Sub	1.00			4250.00	
Bullnose	4.00			4254.00	104.00 Bottom Packers & Anchor

Total Tool Length: 124.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

11-1s-35w Rawlins,KS

250 N Water Ste 300
Wichita KS. 67202

Diasis #1-11

Job Ticket: 56166

DST#: 4

ATTN: Clayton Erickson

Test Start: 2014.03.19 @ 06:20:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUD 100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

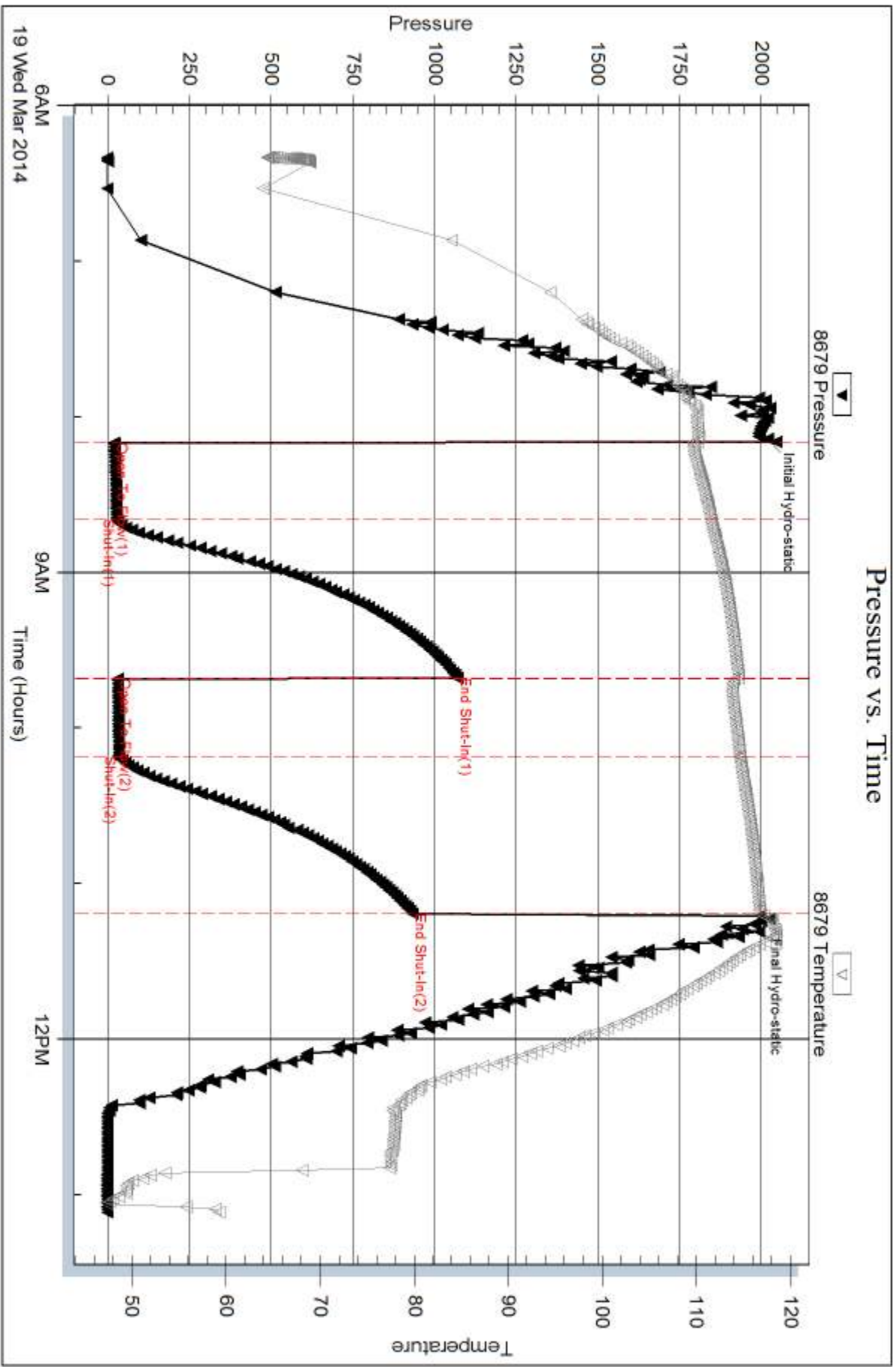
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

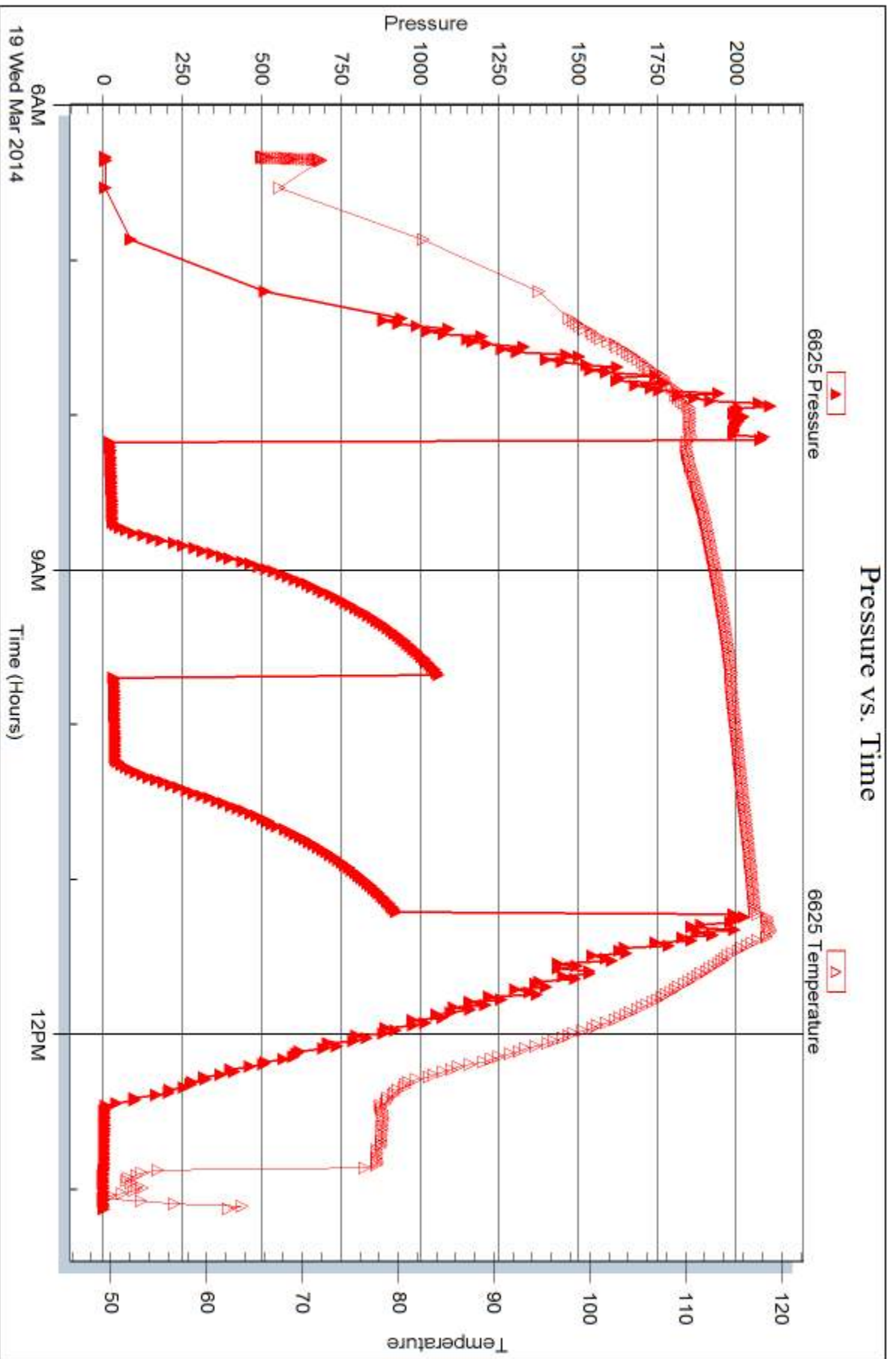


Serial #: 6625

Outside Murfin Drilling Co

Dasis #1-11

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 56166

Printed: 2014.03.21 @ 17:36:43



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS. 67202

ATTN: Clayton Erickson

Diasis #1-11

11-1s-35w Rawlins,KS

Start Date: 2014.03.19 @ 20:18:00

End Date: 2014.03.20 @ 05:38:30

Job Ticket #: 56167 DST #: 5

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

Printed: 2014.03.21 @ 17:35:37

Murfin Drilling Co
11-1s-35w Rawlins,KS
Diasis #1-11
DST # 5
LKC "1-J"
2014.03.19



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co

11-1s-35w Rawlins,KS

250 N Water Ste 300
Wichita KS. 67202

Diasis #1-11

Job Ticket: 56167

DST#: 5

ATTN: Clayton Erickson

Test Start: 2014.03.19 @ 20:18:00

GENERAL INFORMATION:

Formation: **LKC "I - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:30:30

Time Test Ended: 05:38:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 67

Interval: 4245.00 ft (KB) To 4295.00 ft (KB) (TVD)

Reference Elevations: 3167.00 ft (KB)

Total Depth: 4295.00 ft (KB) (TVD)

3157.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8679

Inside

Press@RunDepth: 477.24 psig @ 4281.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.19

End Date:

2014.03.20

Last Calib.:

2014.03.19

Start Time: 20:18:01

End Time:

05:38:30

Time On Btm:

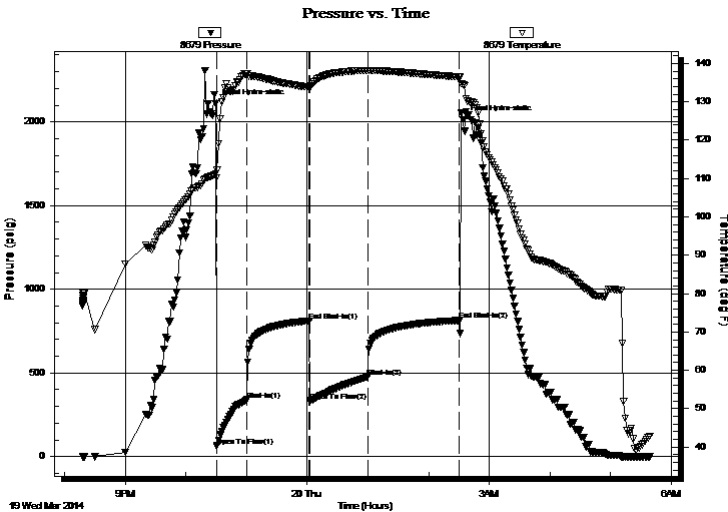
2014.03.19 @ 22:29:30

Time Off Btm:

2014.03.20 @ 02:34:30

TEST COMMENT: I.F. - 30 - BOB in 7 min
I.S.I. - 60 - No blow back
F.F. - 60 - Weak surface blow built to 5 1/2"
F.S.I. - 90 - No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.54	111.17	Initial Hydro-static
1	60.37	110.12	Open To Flow (1)
31	338.87	137.31	Shut-In(1)
93	810.81	133.86	End Shut-In(1)
93	332.36	133.54	Open To Flow (2)
151	477.24	138.15	Shut-In(2)
241	813.46	136.53	End Shut-In(2)
245	2012.72	134.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
372.00	M,C,W, 20% MUD 80% WATER	1.83
372.00	H,O,H,W,C,M, 25% OIL 25% WATER 50% 3.52 JD	
186.00	W,C,H,O,C,M, 10% WATER 35% OIL 55% 2.61 JD	
42.00	CLEAN OIL 100%	0.59

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

11-1s-35w Rawlins,KS

250 N Water Ste 300
Wichita KS. 67202

Diasis #1-11

Job Ticket: 56167

DST#: 5

ATTN: Clayton Erickson

Test Start: 2014.03.19 @ 20:18:00

Tool Information

Drill Pipe:	Length: 3688.00 ft	Diameter: 3.80 inches	Volume: 51.73 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	4245.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	70.00 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			4226.00	
Shut In Tool	5.00			4231.00	
Hydraulic tool	5.00			4236.00	
Packer	4.00			4240.00	20.00 Bottom Of Top Packer
Packer	5.00			4245.00	
Stubb	1.00			4246.00	
Perforations	2.00			4248.00	
Change Over Sub	1.00			4249.00	
Drill Pipe	31.00			4280.00	
Change Over Sub	1.00			4281.00	
Recorder	0.00	6625	Outside	4281.00	
Recorder	0.00	8679	Inside	4281.00	
Perforations	10.00			4291.00	
Bullnose	4.00			4295.00	50.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

11-1s-35w Rawlins,KS

250 N Water Ste 300
Wichita KS. 67202

Diasis #1-11

Job Ticket: 56167

DST#: 5

ATTN: Clayton Erickson

Test Start: 2014.03.19 @ 20:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

60000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
372.00	M,C,W, 20% MUD 80% WATER	1.829
372.00	H,O,H,W,C,M, 25% OIL 25% WATER 50% M	3.524
186.00	W,C,H,O,C,M, 10% WATER 35% OIL 55% M	2.609
42.00	CLEAN OIL 100%	0.589

Total Length: 972.00 ft Total Volume: 8.551 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

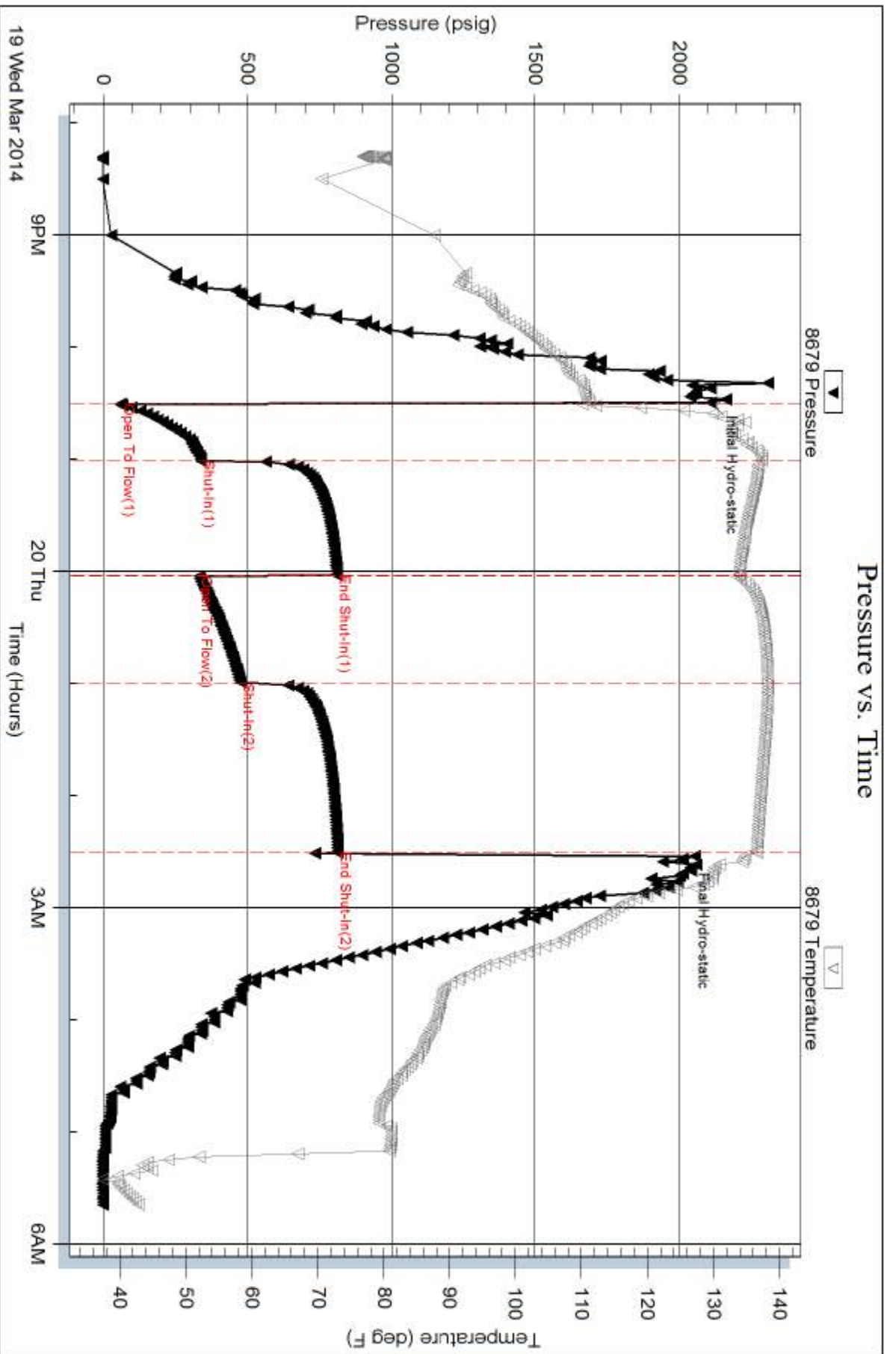
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: R.W. = .17 OHMS @ 41.1 DEG
CHLORIDES = 80,000 P.P.M.

OIL GRAVITY = 27.8 @ 60 DEG.

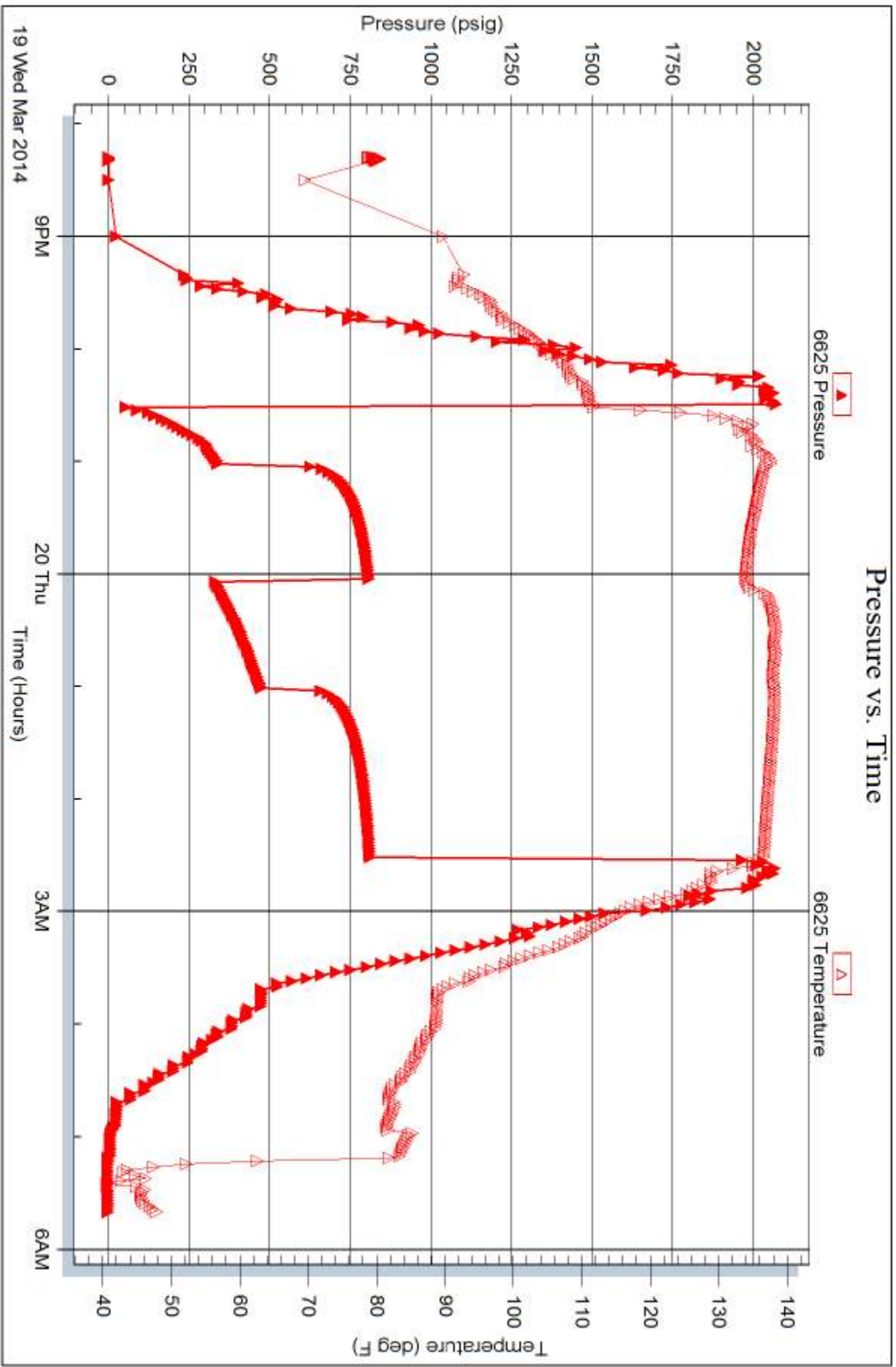


Serial #: 6625

Outside Murfin Drilling Co

Dasis #1-11

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 56167

Printed: 2014.03.21 @ 17:35:39



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56163

Well Name & No. Diasis #1-11 Test No. 1 Date 3-15-14
 Company Martin Drilling Co. INC. Elevation 3167 KB 3157 GL
 Address 250 N. Water Suite 300 Wichita KS. 67202
 Co. Rep / Geo. Clayton Erickson/Scott Robinson Rig Martin Rig #14
 Location: Sec. 11 Twp. 1 S. Rge. 35 W, Co. Rawlins State KS.

Interval Tested 3615 - 3673 Zone Tested Foraker
 Anchor Length 58 Drill Pipe Run 3052 Mud Wt. 8.9
 Top Packer Depth 3610 Drill Collars Run 558 Vis 59
 Bottom Packer Depth 3615 Wt. Pipe Run _____ WL 5.2
 Total Depth 3673 Chlorides 700 ppm System LCM 4.0

Blow Description I.F.-30- 1/2 INT. Blow Built to (1 1/2 in 30 min.)
I.S.I.-60- No B.B.
F.F.-30- NO Blow
F.S.I.-60- NO B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>5,05 M</u>		<u>5</u>		<u>95</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 119 Gravity — API RW — @ — ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1,782</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>12:55:00</u>
(B) First Initial Flow <u>38</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:06:00</u>
(C) First Final Flow <u>48</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:53:00</u>
(D) Initial Shut-In <u>1,109</u>	<input type="checkbox"/> Circ Sub <u>_____</u>	T-Pulled <u>23:53:00</u>
(E) Second Initial Flow <u>49</u>	<input checked="" type="checkbox"/> Hourly Standby <u>2.75</u>	T-Out <u>01:46:00</u>
(F) Second Final Flow <u>57</u>	<input checked="" type="checkbox"/> Mileage <u>102 / R.T.</u> 158.10	Comments <u>Staged for wind</u>
(G) Final Shut-In <u>1,065</u>	<input type="checkbox"/> Sampler <u>_____</u>	<u>(14:42) (19:30) 00</u>
(H) Final Hydrostatic <u>1,726</u>	<input type="checkbox"/> Straddle <u>_____</u>	<input type="checkbox"/> Ruined Shale Packer <u>_____</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>_____</u>	<input type="checkbox"/> Ruined Packer <u>_____</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer <u>_____</u>	<input type="checkbox"/> Extra Copies <u>_____</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>_____</u>	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>_____</u>	Total <u>1908.10</u>
	<input type="checkbox"/> Accessibility <u>_____</u>	MP/DST Disc't <u>_____</u>
	Sub Total <u>1908.10</u>	

Approved By _____ Our Representative Bill Homb

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56164

Well Name & No. Dias's Test No. 2 Date 3-16-14
 Company Murfin Drilling Co, Inc. Elevation 3167 KB 3157 GL
 Address 250 N. Water Suite 300 Wichita KS. 67202
 Co. Rep / Geo. Clayton Erickson / Scott Robinson Rig Murfin Rig #14
 Location: Sec. 11 Twp. 1 S. Rge. 35 W. Co. Rawlins State KS.

Interval Tested 3892-3820 Zone Tested Stotter
 Anchor Length 128' Drill Pipe Run 3119 Mud Wt. 9.2
 Top Packer Depth 3687 Drill Collars Run 558 Vis 51
 Bottom Packer Depth 3692 Wt. Pipe Run — WL 6.1
 Total Depth 3820 Chlorides 700 ppm System LCM 4

Blow Description I.F. - 30 - 1/2" INT. Blow Built to (2 1/2" in 30 min.)
I.S.I - 60 - No B.B.
E.F. - 60 - W.S. B started @ 3 min. Built to (5 1/2" in 60 min.)
E.S.I - 90 - No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Clean oil</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>186</u>	<u>O.C.M</u>	<u>15</u>	<u>0</u>	<u>85</u>	<u>0</u>
<u>93</u>	<u>O.C.M O.C.M, W</u>	<u>10</u>	<u>0</u>	<u>60</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 284 BHT 118 Gravity 26.8 API RW .16 @ 42 °F Chlorides 95,000 ppm
 (A) Initial Hydrostatic 1,862 Test 1150 T-On Location 13:55:00
 (B) First Initial Flow 69 Jars 250 T-Started 14:30:00
 (C) First Final Flow 118 Safety Joint 75 T-Open 16:44:00
 (D) Initial Shut-In 1,221 Circ Sub _____ T-Pulled 20:44:00
 (E) Second Initial Flow 129 Hourly Standby _____ T-Out 23:10:00
 (F) Second Final Flow 212 Mileage 102/R.T. 158.10 Comments _____
 (G) Final Shut-In 1,206 Sampler _____ "thank-you"
 (H) Final Hydrostatic 1,743 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 60 Extra Packer _____ Extra Copies _____
 Final Flow 60 Extra Recorder _____ Sub Total 0
 Final Shut-In 90 Day Standby _____ Total 1633.10
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1633.10

Approved By _____ Our Representative Bob Horn

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **56165**

Well Name & No. Diasis #1-11 Test No. 3 Date 3-17-14
 Company Murfin Drilling Co. INC. Elevation 3167 KB 3157 GL
 Address 250 N. Water Suite 300 Wichita KS. 67202
 Co. Rep / Geo. Clayton Erickson / Scott Robinson Rig Murfin Rig #14
 Location: Sec. 11 Twp. 1-S Rge. 35-W Co. Rawlins State KS.

Interval Tested 4005-4160 Zone Tested oread, Lansing A-D
 Anchor Length 155' Drill Pipe Run 3439 Mud Wt. 9.2
 Top Packer Depth 4600 Drill Collars Run 558 Vis 99
 Bottom Packer Depth 4005 Wt. Pipe Run --- WL 6.0
 Total Depth 4160 Chlorides 1,000 ppm System LCM 4.0

Blow Description I.F.-30-1/2" INT Blow Built to (5 1/2" in 30min.)
I.S.I-60-NO B.B.
E.F.-60-W.S.B. Started @ 3min. Built to (5 1/2" in 60min.)
E.S.I-90-NO B.B.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>505'</u>	Feet of <u>S.O.S, M</u>				

Rec Total 505' BHT 124 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>2,036</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>01:45:00</u>
(B) First Initial Flow <u>90</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>02:25:00</u>
(C) First Final Flow <u>187</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>05:02:00</u>
(D) Initial Shut-In <u>1,327</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>09:02:00</u>
(E) Second Initial Flow <u>194</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:55:00</u>
(F) Second Final Flow <u>339</u>	<input checked="" type="checkbox"/> Mileage <u>102 R.T.</u> 158.10	Comments <u>Thank-you</u>
(G) Final Shut-In <u>1,319</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1,966</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>60</u>	<input type="checkbox"/> Extra Recorder	Total <u>1733.10</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	Sub Total <u>1733.10</u>

Approved By _____ Our Representative B. J. Moore

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56166

Well Name & No. Diasis # 1-11 Test No. 4 Date 3-19-14
 Company Murfin Drilling Co. INC, Elevation 3167 KB 3157 GL
 Address 250 N. Water Suite 300 Wichita KS, 67202
 Co. Rep / Geo. Clayton Erickson / Scott Robinson Rig Murfin Rig #14
 Location: Sec. 11 Twp. 1-5 Rge. 35 - W. Co. Kan. State KS

Interval Tested 4150 - 4254 Zone Tested h.K.C. G+H
 Anchor Length 104 Drill Pipe Run 3593 Mud Wt. 9.2
 Top Packer Depth 4145 Drill Collars Run 558 Vis 53
 Bottom Packer Depth 4150 Wt. Pipe Run — WL 5.2
 Total Depth 4254 Chlorides 1000 ppm System LCM 4

Blow Description I.F. - 30 - 1/2" INT. Blow no Build
F.S.I - 60 - No B.B.
F.F. - 30 - No Blow
F.S.I - 60 - No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>Mud</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 Total 5' BHT 118 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2,020 Test 1250 T-On Location 05:28:00
 (B) First Initial Flow 20 Jars 250 T-Started 06:20:00
 (C) First Final Flow 27 Safety Joint 75 T-Open 08:11:00
 (D) Initial Shut-In 1072 Circ Sub — T-Pulled 11:11:00
 (E) Second Initial Flow 330 Hourly Standby — T-Out 13:06:00
 (F) Second Final Flow 33 Mileage 102 / R. + 158.10 Comments "Thank-you"
 (G) Final Shut-In 933 Sampler —
 (H) Final Hydrostatic 1,982 Straddle —
 Shale Packer —
 Shale Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60
 Sub Total 1733.10
 MP/DST Disc't —

Approved By — Our Representative Bob Howard

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56167

Well Name & No. Dias.S. #1-11 Test No. 5 Date 3-19-14
 Company Murfin Drilling Co. INC. Elevation 3167 KB 3157 GL
 Address 250 N. Water suite 300 Wichita KS 67202
 Co. Rep / Geo. Clayton Erickson / Scott Robinson Rig Murfin Rig #14
 Location: Sec. 11 Twp. 1 - S. Rge. 35 - W. Co. Rawlins State Ks.

Interval Tested 4245 - 4295 Zone Tested L.K.C. "I - J"
 Anchor Length 50' Drill Pipe Run 3688 Mud Wt. 9.1
 Top Packer Depth 4240 Drill Collars Run 558 Vis 57
 Bottom Packer Depth 4245 Wt. Pipe Run — WL 4.8
 Total Depth 4295 Chlorides 1000 ppm System LCM 4

Blow Description I.F. - 30 - 1/2" INT. Blow Built to (B.O.B. in 7 min.)
~~I.S.T. - 60 - No. B.B.~~
~~I.F. - 60 - 1/2" INT. Blow Built to (B.O.B. in 14 min.)~~
I.S.T. - 90 - No. B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>42'</u>	<u>clean oil</u>		<u>100</u>		
<u>186</u>	<u>W, C, H, O, C, M</u>	<u>35</u>	<u>10</u>	<u>55</u>	<u>55</u>
<u>377</u>	<u>H, O, H, W, C, M</u>	<u>25</u>	<u>25</u>	<u>50</u>	<u>50</u>
<u>372</u>	<u>M, C, W</u>		<u>80</u>	<u>20</u>	<u>20</u>

Rec Total 972' BHT 134 Gravity 27.8 API RW .17 @ 41.1 °F Chlorides 80,000 ppm

(A) Initial Hydrostatic 2110 Test 1250 T-On Location 19:28:00
 (B) First Initial Flow 60 Jars 250 T-Started 20:18:00
 (C) First Final Flow 339 Safety Joint 75 T-Open 22:32:00
 (D) Initial Shut-In 811 Circ Sub _____ T-Pulled 02:32:00
 (E) Second Initial Flow 332 Hourly Standby _____ T-Out 05:40:00
 (F) Second Final Flow 477 Mileage 102 RR. #2 Comments Loaded tools @
 (G) Final Shut-In 813 Sampler _____ 10:30 on 3-21
 (H) Final Hydrostatic 2013 Straddle _____ thank-you"
 Shale Packer _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 800
 Final Flow 60 Day Standby 1d 4.75h Total 2691.20
 Final Shut-In 90 Accessibility _____ MP/DST Disc't _____
 Sub Total 1891.20

Approved By _____ Our Representative [Signature]

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.