

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

250 N. Water
St 300
Wichita, KS 67202

ATTN: Kevin Davis/ Sean Dee

8 1s 35w Rawlins KS

Sutton #3-8

Start Date: 2009.03.20 @ 19:37:00

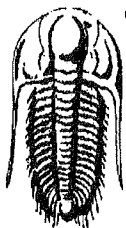
End Date: 2009.03.21 @ 03:30:00

Job Ticket #: 34490 DST #: 1

KCC
JUL 17 2009
CONFIDENTIAL

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

KANSAS CORPORATION COMMISSION
JUL 17 2009
RECEIVED



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water
St 300
Wichita, KS 67202
ATTN: Kevin Davis/ Sean Dee

Sutton #3-8

8 1s 35w Rawlins KS

Job Ticket: 34490 **DST#: 1**

Test Start: 2009.03.20 @ 19:37:00

GENERAL INFORMATION:

Formation: **LKC "A - D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:43:00

Time Test Ended: 03:30:00

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: **4133.00 ft (KB) To 4243.00 ft (KB) (TVD)**

Total Depth: 4243.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3214.00 ft (KB)

3209.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 273.02 psig @ 4134.00 ft (KB)

Start Date: 2009.03.20

End Date:

2009.03.21

Start Time: 19:37:05

End Time:

03:29:59

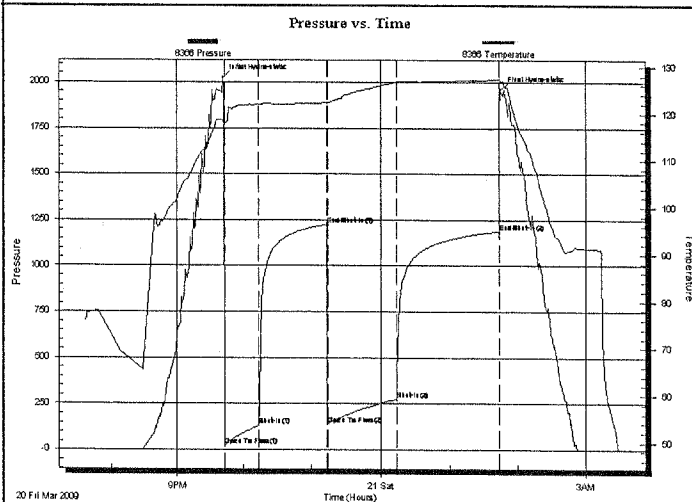
Capacity: 7000.00 psig

Last Calib.: 2009.03.21

Time On Btm: 2009.03.20 @ 21:41:30

Time Off Btm: 2009.03.21 @ 01:44:29

TEST COMMENT: IF: Blow built to 9 1/2"
ISI: Bled off, No blow back
FF: Blow built to 10 1/2"
FSI: Bled off, No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2021.56	118.70	Initial Hydro-static
2	23.12	117.78	Open To Flow (1)
32	132.09	121.93	Shut-In (1)
92	1223.92	122.34	End Shut-In (1)
92	139.09	122.13	Open To Flow (2)
152	273.02	126.82	Shut-In (2)
242	1188.10	127.38	End Shut-In (2)
243	1959.80	126.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	MCW w/trace oil 74%w, 26%m	0.74
90.00	Watery Mud w/trace oil 58%m, 42%w	0.44
155.00	SOWCM 80%m, 18%w, 2%o	0.76
157.00	SOCM 96%m, 4%o	0.82
0.00	RW = .251 @ 54.5 deg F	0.00
0.00	Chlorides = 37,000 ppm	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Sutton #3-8

250 N. Water

8 1s 35w Rawlins KS

St 300

Job Ticket: 34490

DST#: 1

Wichita, KS 67202

ATTN: Kevin Davis/ Sean Dee

Test Start: 2009.03.20 @ 19:37:00

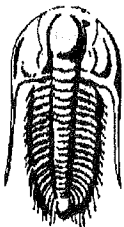
Tool Information

Drill Pipe:	Length: 3589.00 ft	Diameter: 3.80 inches	Volume: 50.34 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: 25000.00 lb
Drill Collar:	Length: 547.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose: 92000.00 lb
		Total Volume: 53.03 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4133.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	110.00 ft			
Tool Length:	138.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			4110.00	
HYD S.I. Tool	5.00			4115.00	
Jars	5.00			4120.00	
Safety Joint	3.00			4123.00	
Packer	5.00			4128.00	28.00 Bottom Of Top Packer
Packer	5.00			4133.00	
Stubb	1.00			4134.00	
Recorder	0.00	8366	Inside	4134.00	
Recorder	0.00	8320	Inside	4134.00	
Perforations	10.00			4144.00	
Blank Spacing	94.00			4238.00	
Perforations	2.00			4240.00	
Bullnose	3.00			4243.00	110.00 Bottom Packers & Anchor

Total Tool Length: 138.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Sutton #3-8

250 N. Water

8 1s 35w Rawlins KS

St 300

Wichita, KS 67202

Job Ticket: 34490

DST#: 1

ATTN: Kevin Davis/ Sean Dee

Test Start: 2009.03.20 @ 19:37:00

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:

37000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	MCW w/trace oil 74%w, 26%m	0.738
90.00	Watery Mud w/trace oil 58%m, 42%w	0.443
155.00	SOWCM 80%m, 18%w, 2%o	0.762
157.00	SOCM 96%m, 4%o	0.818
0.00	RW = .251 @ 54.5 deg F	0.000
0.00	Chlorides = 37,000 ppm	0.000

Total Length: 552.00 ft

Total Volume: 2.761 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

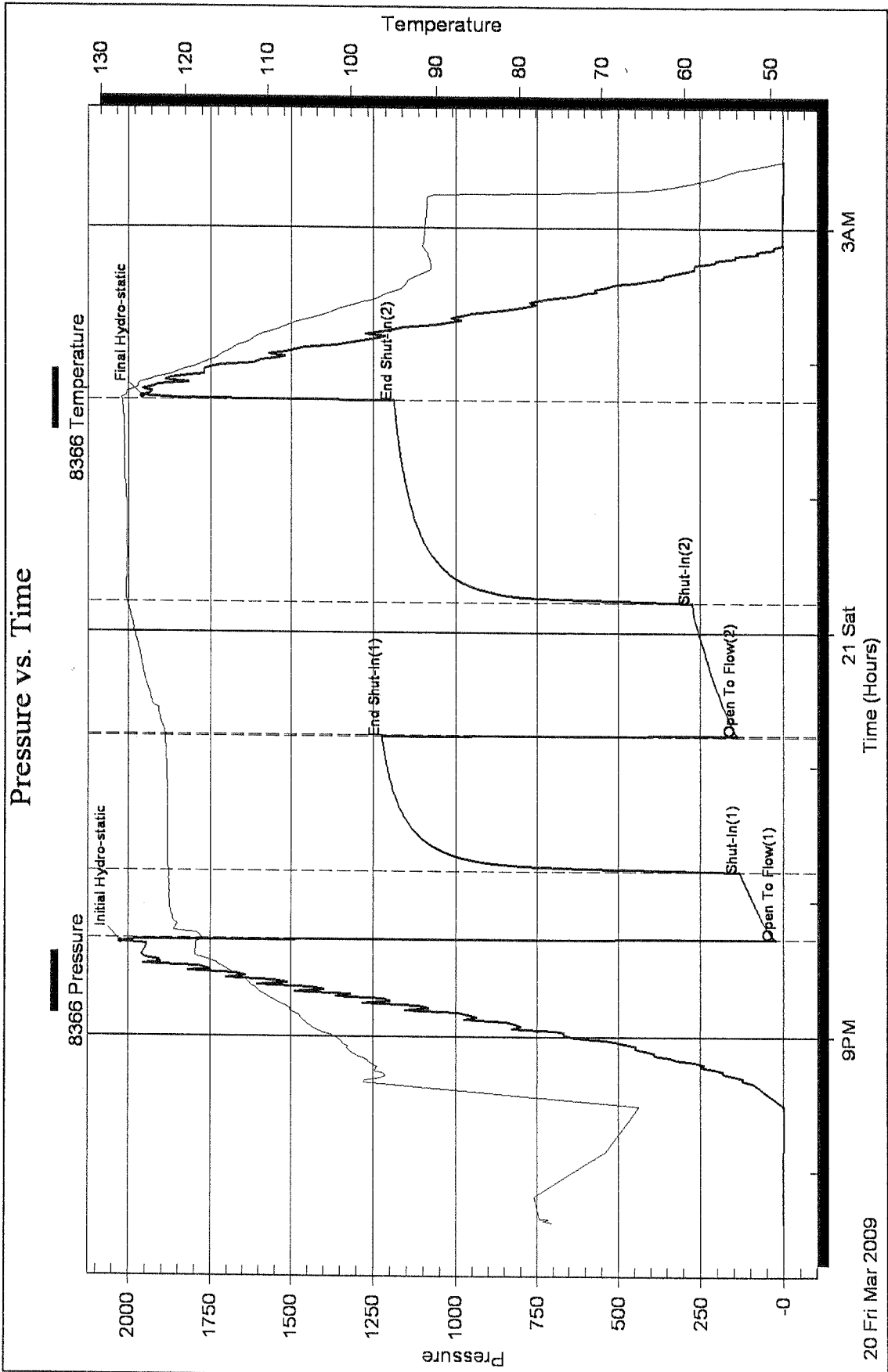
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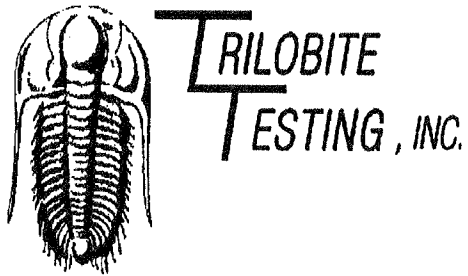
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

250 N. Water
St 300
Wichita, KS 67202

ATTN: Kevin Davis/ Sean Dee

8 1s 35w Rawlins KS

Sutton #3-8

Start Date: 2009.03.21 @ 11:42:00

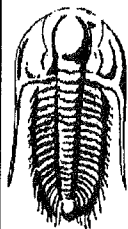
End Date: 2009.03.21 @ 20:36:00

Job Ticket #: 34491 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water
St 300
Wichita, KS 67202
ATTN: Kevin Davis/ Sean Dee

Sutton #3-8

8 1s 35w Rawlins KS

Job Ticket: 34491

DST#: 2

Test Start: 2009.03.21 @ 11:42:00

GENERAL INFORMATION:

Formation: **LKC "E-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:16:00

Time Test Ended: 20:36:00

Interval: **4238.00 ft (KB) To 4300.00 ft (KB) (TVD)**

Total Depth: 4300.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Reference Elevations: 3214.00 ft (KB)

3209.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 1070.67 psig @ 4239.00 ft (KB)

Start Date: 2009.03.21 End Date: 2009.03.21

Start Time: 11:42:05 End Time: 20:36:00

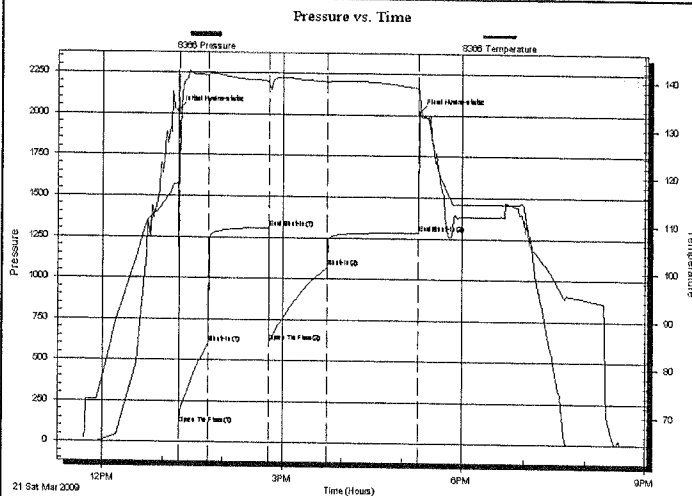
Capacity: 7000.00 psig

Last Calib.: 2009.03.21

Time On Btm: 2009.03.21 @ 13:15:00

Time Off Btm: 2009.03.21 @ 17:17:29

TEST COMMENT: IF: Blow built to BOB in 1 3/4 min.
IS: Bled off for 5 min. Blow back built to BOB in 7 1/2 min.
FF: Blow built to BOB in 2 min.
FSI: Bled off for 1 3/4 min. Blowback built to BOB in 11 1/4 min. GT



PRESSURE SUMMARY

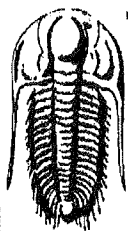
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2022.75	118.62	Initial Hydro-static
1	110.43	118.89	Open To Flow (1)
31	603.23	141.02	Shut-In (1)
91	1307.85	139.84	End Shut-In (1)
91	613.84	139.45	Open To Flow (2)
151	1070.67	139.84	Shut-In (2)
242	1283.76	138.61	End Shut-In (2)
243	2017.50	138.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2880.00	CGO 83%o, 17%g	35.42
0.00	GTS 58 min. into FSI	0.00
0.00	Gravity = 30.4 api @ 76 deg F	0.00
0.00	Corrected Gravity = 28.8 api	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfine Drilling Co., Inc.

Sutton #3-8

250 N. Water

8 1s 35w Rawlins KS

St 300

Job Ticket: 34491

DST#: 2

Wichita, KS 67202

Test Start: 2009.03.21 @ 11:42:00

ATTN: Kevin Davis/ Sean Dee

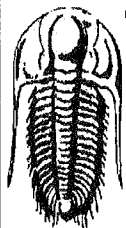
Tool Information

Drill Pipe:	Length: 3683.00 ft	Diameter: 3.80 inches	Volume: 51.66 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: 25000.00 lb
Drill Collar:	Length: 547.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose: 100000.0 lb
		Total Volume: 54.35 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4238.00 ft			Final 85000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			4215.00	
HYD S.I. Tool	5.00			4220.00	
Jars	5.00			4225.00	
Safety Joint	3.00			4228.00	
Packer	5.00			4233.00	28.00 Bottom Of Top Packer
Packer	5.00			4238.00	
Stubb	1.00			4239.00	
Recorder	0.00	8366	Inside	4239.00	
Recorder	0.00	8320	Inside	4239.00	
Perforations	23.00			4262.00	
Blank Spacing	33.00			4295.00	
Perforations	2.00			4297.00	
Bullnose	3.00			4300.00	62.00 Bottom Packers & Anchor

Total Tool Length: 90.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Sutton #3-8

250 N. Water
St 300
Wichita, KS 67202
ATTN: Kevin Davis/ Sean Dee

8 1s 35w Rawlins KS
Job Ticket: 34491 **DST#: 2**
Test Start: 2009.03.21 @ 11:42:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 5.59 in³
Resistivity: ohm.m
Salinity: 800.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 28.8 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2880.00	CGO 83%o, 17%g	35.416
0.00	GTS 58 min. into FSI	0.000
0.00	Gravity = 30.4 api @ 76 deg F	0.000
0.00	Corrected Gravity = 28.8 api	0.000

Total Length: 2880.00 ft Total Volume: 35.416 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

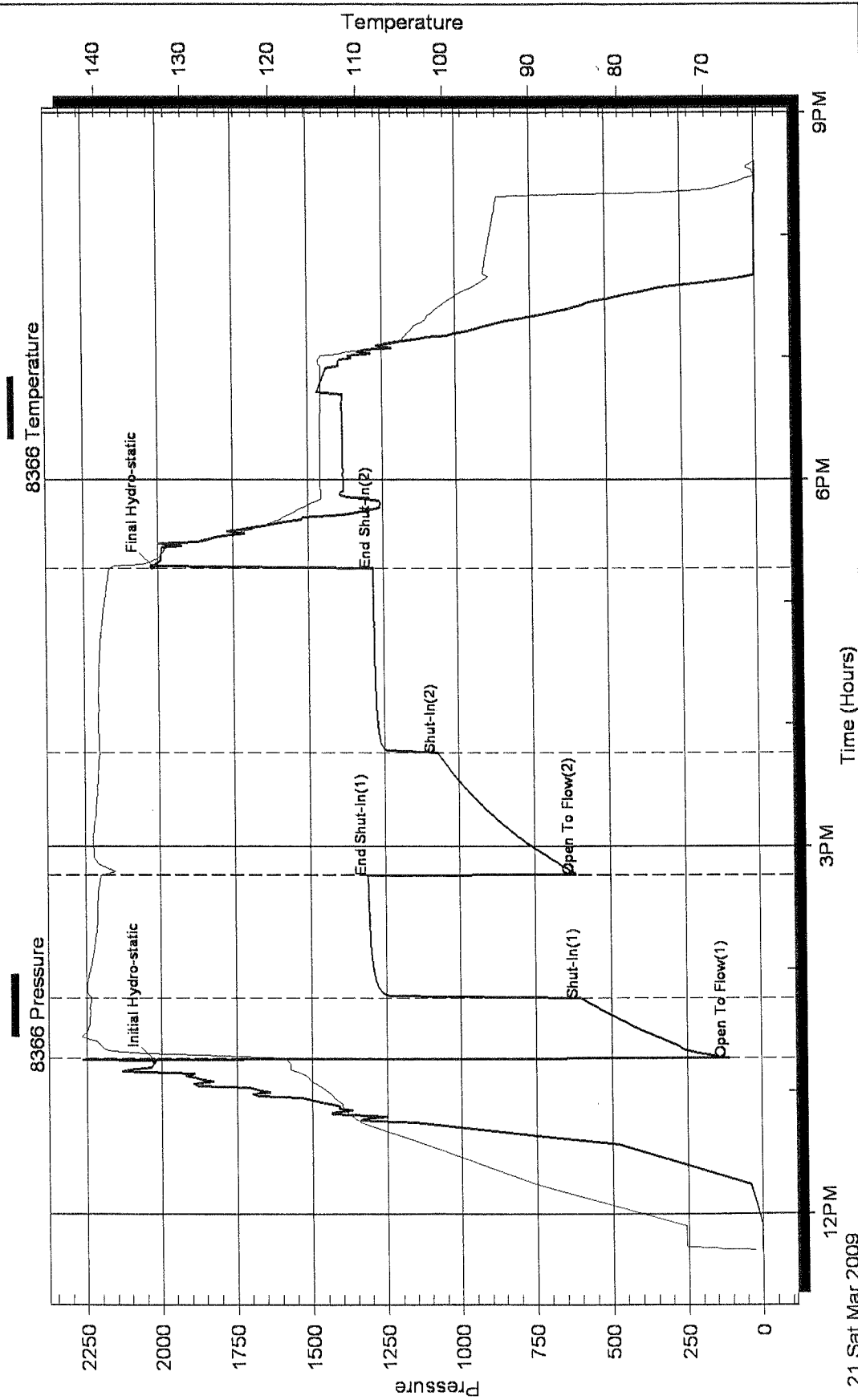
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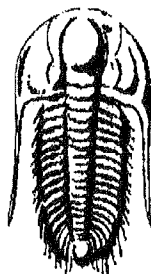
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

250 N. Water
St 300
Wichita, KS 67202

ATTN: Kevin Davis/ Sean Dee

8 1s 35w Rawlins KS

Sutton #3-8

Start Date: 2009.03.22 @ 02:45:00

End Date: 2009.03.22 @ 10:06:00

Job Ticket #: 34492 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co., Inc.

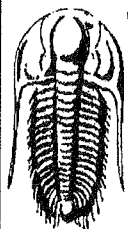
Sutton #3-8

8 1s 35w Rawlins KS

DST # 3

LKC "Lower G"

2009.03.22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water
St 300
Wichita, KS 67202
ATTN: Kevin Davis/ Sean Dee

Sutton #3-8

8 1s 35w Rawlins KS

Job Ticket: 34492

DST#: 3

Test Start: 2009.03.22 @ 02:45:00

GENERAL INFORMATION:

Formation: **LKC " Lower G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:19:00

Time Test Ended: 10:06:00

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: **4295.00 ft (KB) To 4320.00 ft (KB) (TVD)**

Total Depth: 4320.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3214.00 ft (KB)

3209.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 46.42 psig @ 4296.00 ft (KB)

Start Date: 2009.03.22

End Date:

2009.03.22

Start Time: 02:45:05

End Time:

10:05:59

Capacity:

7000.00 psig

Last Calib.:

2009.03.22

Time On Btm:

2009.03.22 @ 04:18:00

Time Off Btm:

2009.03.22 @ 08:18:59

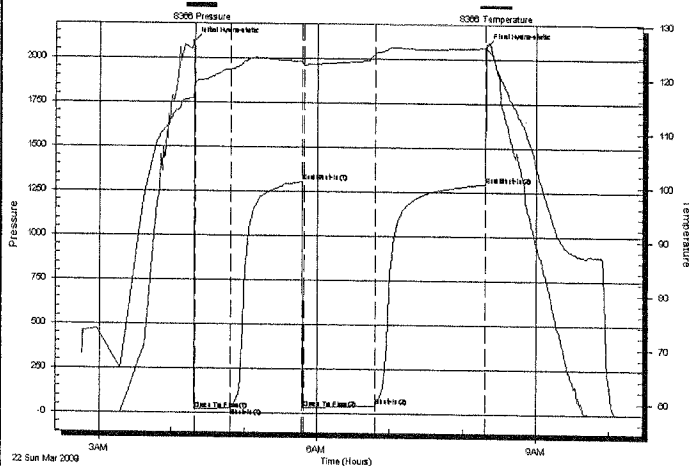
TEST COMMENT: IF: Blow built to 4 1/4"

ISI: Bled off, Surface blow back from 11 min. to 15 min.

FF: Blow built to 5 1/2"

FSI: Bled off, No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2092.63	117.56	Initial Hydro-static
1	18.75	118.89	Open To Flow (1)
31	28.13	121.62	Shut-In(1)
90	1304.76	123.13	End Shut-In(1)
91	29.70	122.55	Open To Flow(2)
151	46.42	124.65	Shut-In(2)
240	1296.05	125.80	End Shut-In(2)
241	2067.23	126.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GOCM 65% m, 25% o, 10% g	0.10
85.00	SGMCO 90% o, 5% g, 5% m	0.42
0.00	GIP = 135' (very faint odor)	0.00
0.00	Gravity = 26.6 api @ 74 deg F	0.00
0.00	Corrected Gravity = 25.2 api	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Sutton #3-8

250 N. Water
St 300
Wichita, KS 67202

8 1s 35w Rawlins KS

Job Ticket: 34492

DST#: 3

ATTN: Kevin Davis/ Sean Dee

Test Start: 2009.03.22 @ 02:45:00

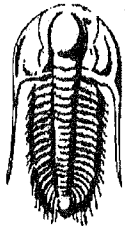
Tool Information

Drill Pipe:	Length: 3742.00 ft	Diameter: 3.80 inches	Volume: 52.49 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:	25000.00 lb
Drill Collar:	Length: 547.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose:	92000.00 lb
		Total Volume:	55.18 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	75000.00 lb
Depth to Top Packer:	4295.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			4272.00	
HYD S.I. Tool	5.00			4277.00	
Jars	5.00			4282.00	
Safety Joint	3.00			4285.00	
Packer	5.00			4290.00	28.00 Bottom Of Top Packer
Packer	5.00			4295.00	
Stubb	1.00			4296.00	
Recorder	0.00	8366	Inside	4296.00	
Recorder	0.00	8320	Inside	4296.00	
Perforations	21.00			4317.00	
Bullnose	3.00			4320.00	25.00 Bottom Packers & Anchor

Total Tool Length: 53.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Sutton #3-8

250 N. Water
St 300
Wichita, KS 67202
ATTN: Kevin Davis/ Sean Dee

8 1s 35w Rawlins KS

Job Ticket: 34492

DST#: 3

Test Start: 2009.03.22 @ 02:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 5.59 in³

Resistivity: ohm.m

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

25.2 deg API

Water Salinity:

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	GOCM 65% _m , 25% _o , 10% _g	0.098
85.00	SGMCO 90% _o , 5% _g , 5% _m	0.418
0.00	GIP = 135' (very faint odor)	0.000
0.00	Gravity = 26.6 api @ 74 deg F	0.000
0.00	Corrected Gravity = 25.2 api	0.000

Total Length: 105.00 ft

Total Volume: 0.516 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

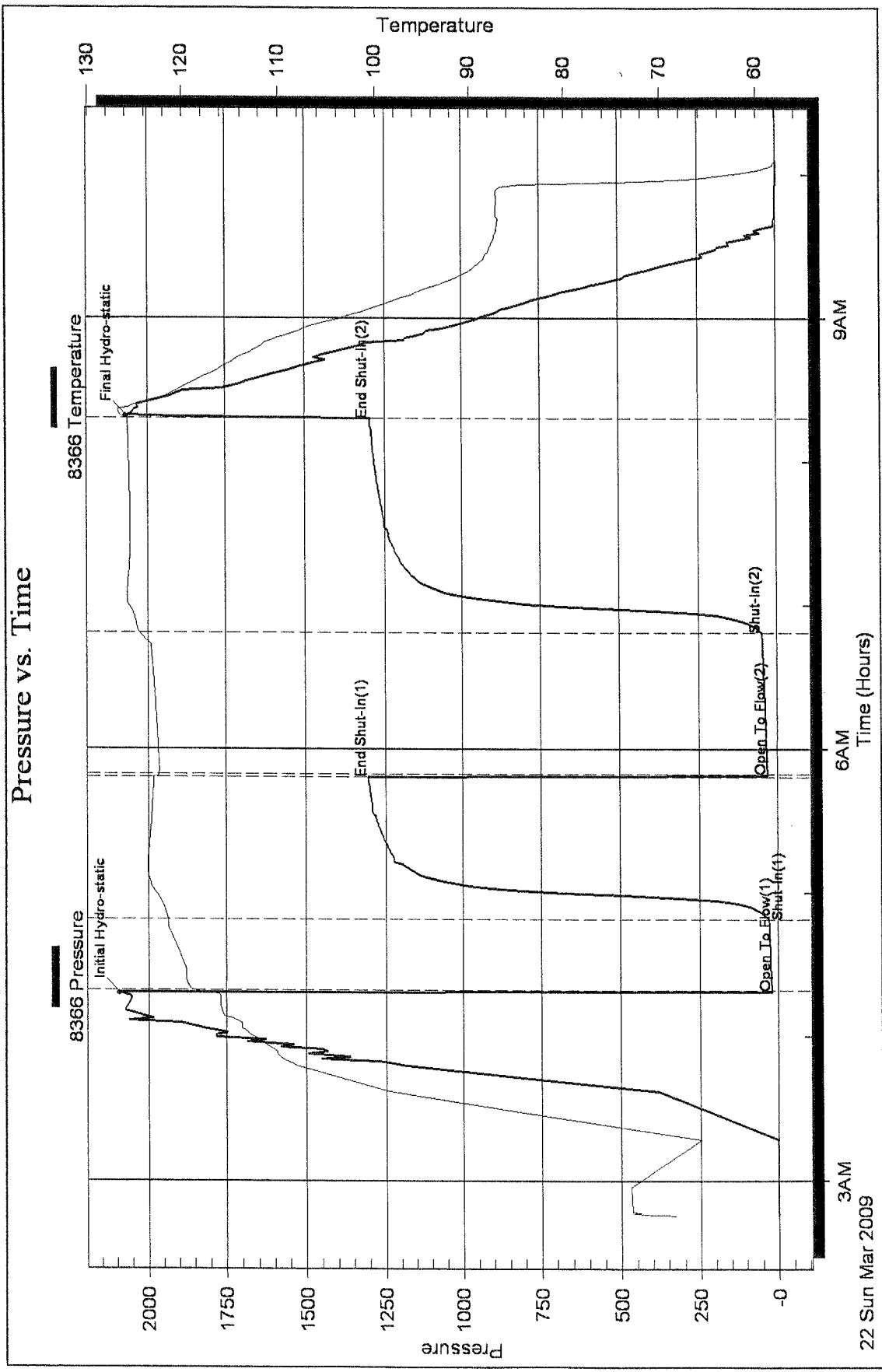
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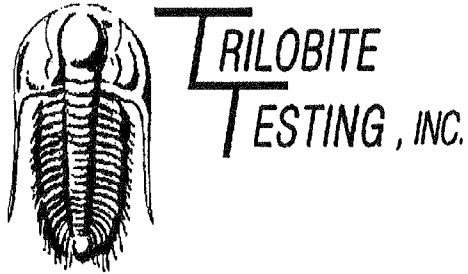
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

250 N. Water
St 300
Wichita, KS 67202

ATTN: Kevin Davis/ Sean Dee

8 1s 35w Rawlins KS

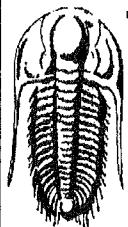
Sutton #3-8

Start Date: 2009.03.22 @ 19:53:00

End Date: 2009.03.23 @ 02:21:00

Job Ticket #: 34493 DST #: 4

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

Sutton #3-8

250 N. Water
St 300
Wichita, KS 67202
ATTN: Kevin Davis/ Sean Dee

8 1s 35w Rawlins KS

Job Ticket: 34493 **DST#: 4**

Test Start: 2009.03.22 @ 19:53:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:39:30

Time Test Ended: 02:21:00

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: **4325.00 ft (KB) To 4384.00 ft (KB) (TVD)**

Total Depth: 4384.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3214.00 ft (KB)

3209.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366 Inside

Press@RunDepth: 31.90 psig @ 4326.00 ft (KB)

Start Date: 2009.03.22

End Date: 2009.03.23

Start Time: 19:53:05

End Time: 02:20:59

Capacity: 7000.00 psig

Last Calib.: 2009.03.23

Time On Btm: 2009.03.22 @ 21:38:30

Time Off Btm: 2009.03.23 @ 00:39:29

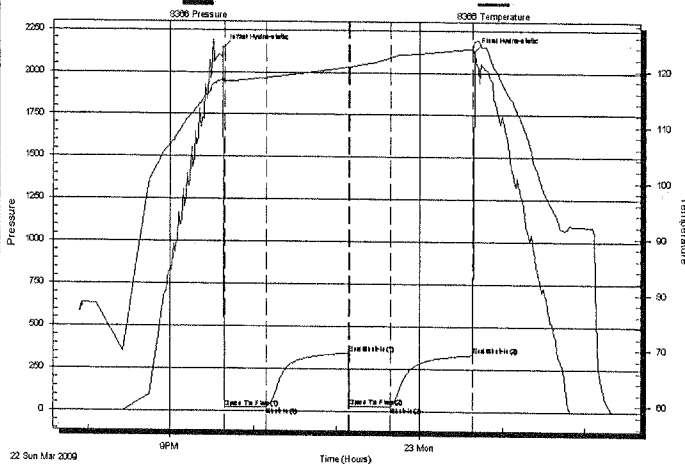
TEST COMMENT: IF: Blow built to 1" in 8 min., blew at 1" through open

ISI: Bled off, No blow back

FF: No blow

FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2142.36	118.71	Initial Hydro-static
1	19.26	117.77	Open To Flow (1)
31	26.40	118.67	Shut-In(1)
91	344.19	120.66	End Shut-In(1)
91	27.81	120.57	Open To Flow (2)
120	31.90	122.30	Shut-In(2)
180	334.31	124.01	End Shut-In(2)
181	2126.70	125.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	SOCM	0.20

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Sutton #3-8

250 N. Water
St 300
Wichita, KS 67202
ATTN: Kevin Davis/ Sean Dee

8 1s 35w Rawlins KS

Job Ticket: 34493 **DST#:4**

Test Start: 2009.03.22 @ 19:53:00

Tool Information

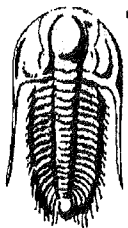
Drill Pipe:	Length: 3773.00 ft	Diameter: 3.80 inches	Volume: 52.93 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 547.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose:	94000.00 lb
		Total Volume:	55.62 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	4325.00 ft			Final	80000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	59.00 ft				
Tool Length:	87.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			4302.00	
HYD S.I. Tool	5.00			4307.00	
Jars	5.00			4312.00	
Safety Joint	3.00			4315.00	
Packer	5.00			4320.00	28.00 Bottom Of Top Packer
Packer	5.00			4325.00	
Stubb	1.00			4326.00	
Recorder	0.00	8366	Inside	4326.00	
Recorder	0.00	8320	Inside	4326.00	
Perforations	21.00			4347.00	
Blank Spacing	32.00			4379.00	
Perforations	2.00			4381.00	
Bullnose	3.00			4384.00	59.00 Bottom Packers & Anchor

Total Tool Length: 87.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Sutton #3-8

250 N. Water
St 300
Wichita, KS 67202

8 1s 35w Rawlins KS

Job Ticket: 34493

DST#: 4

ATTN: Kevin Davis/ Sean Dee

Test Start: 2009.03.22 @ 19:53:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 5.19 in³

Resistivity: ohm.m

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	SOCM	0.197

Total Length: 40.00 ft

Total Volume: 0.197 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

