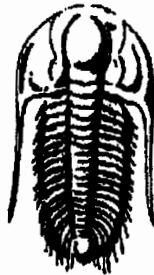


15-195-22628

9-12s-21w



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
Ste 300
Wichita Ks 67202-1216

ATTN: Scott Robinson

9-12s-21w Trego KS

PNK#1-9

Start Date: 2009.09.17 @ 20:25:46

End Date: 2009.09.18 @ 04:08:40

Job Ticket #: 36533 DST #: 1

RECEIVED

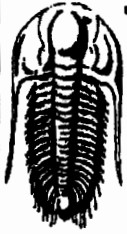
JAN 06 2010

KCC WICHITA

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
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

PNK#1-9

9-12s-21w Trego KS

Job Ticket: 36533

DST#: 1

Test Start: 2009.09.17 @ 20:25:46

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:25:11

Time Test Ended: 04:08:40

Interval: **3383.00 ft (KB) To 3412.00 ft (KB) (TVD)**

Total Depth: **3412.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Reference Elevations: 2327.00 ft (KB)

2322.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8365** Inside

Press@RunDepth: 153.72 psig @ 3384.01 ft (KB)

Start Date: 2009.09.17 End Date: 2009.09.18

Start Time: 20:25:46 End Time: 04:08:40

Capacity: 8000.00 psig

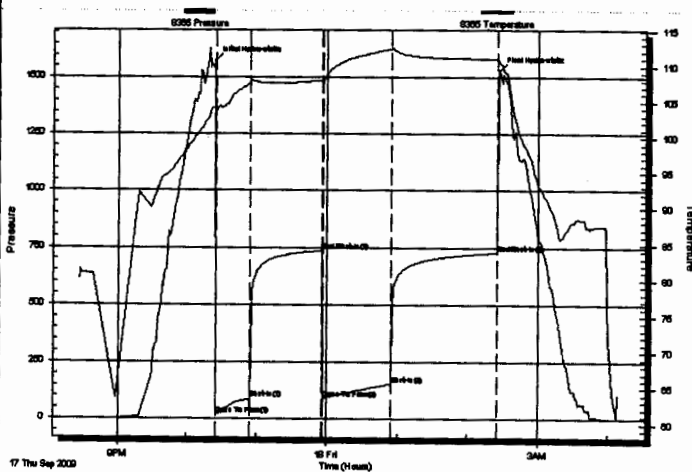
Last Calib.: 2009.09.18

Time On Btrr: 2009.09.17 @ 22:24:11

Time Off Btrr: 2009.09.18 @ 02:26:40

TEST COMMENT: IFP-wk to a fr bl 1/2" to 3 1/2" bl
FFP-wk bl thru-out surface to 1 3/4" bl
Times 30-60-60-90
no bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1571.16	104.17	Initial Hydro-static
1	16.69	103.75	Open To Flow (1)
31	88.25	107.79	Shut-In (1)
91	736.24	108.01	End Shut-In (1)
92	89.49	107.77	Open To Flow (2)
150	153.72	112.42	Shut-In (2)
241	727.22	111.09	End Shut-In (2)
243	1530.34	110.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	MW 20%MB0%W w/show of oil	0.15
240.00	Water	2.55

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

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36533

DST#: 1

Test Start: 2009.09.17 @ 20:25:46

Tool Information

Drill Pipe:	Length: 3255.00 ft	Diameter: 3.80 inches	Volume: 45.66 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume: 46.25 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3383.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.02 ft			
Tool Length:	57.02 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			3356.00	
Shut In Tool	5.00			3361.00	
Hydraulic tool	5.00			3366.00	
Jars	5.00			3371.00	
Safety Joint	2.00			3373.00	
Packer	5.00			3378.00	28.00 Bottom Of Top Packer
Packer	5.00			3383.00	
Stubb	1.00			3384.00	
Recorder	0.01	8365	Inside	3384.01	
Recorder	0.01	6625	Outside	3384.02	
Perforations	25.00			3409.02	
Bullnose	3.00			3412.02	29.02 Bottom Packers & Anchor

Total Tool Length: 57.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36533

DST#: 1

Test Start: 2009.09.17 @ 20:25:46

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 7.44 in³

Resistivity: ohm.m

Salinity: 1000.00 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: 36000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MW 20%MB0%W w/show of oil	0.148
240.00	Water	2.547

Total Length: 270.00 ft

Total Volume: 2.695 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.18 @ 82 F

DST Test Number: 1

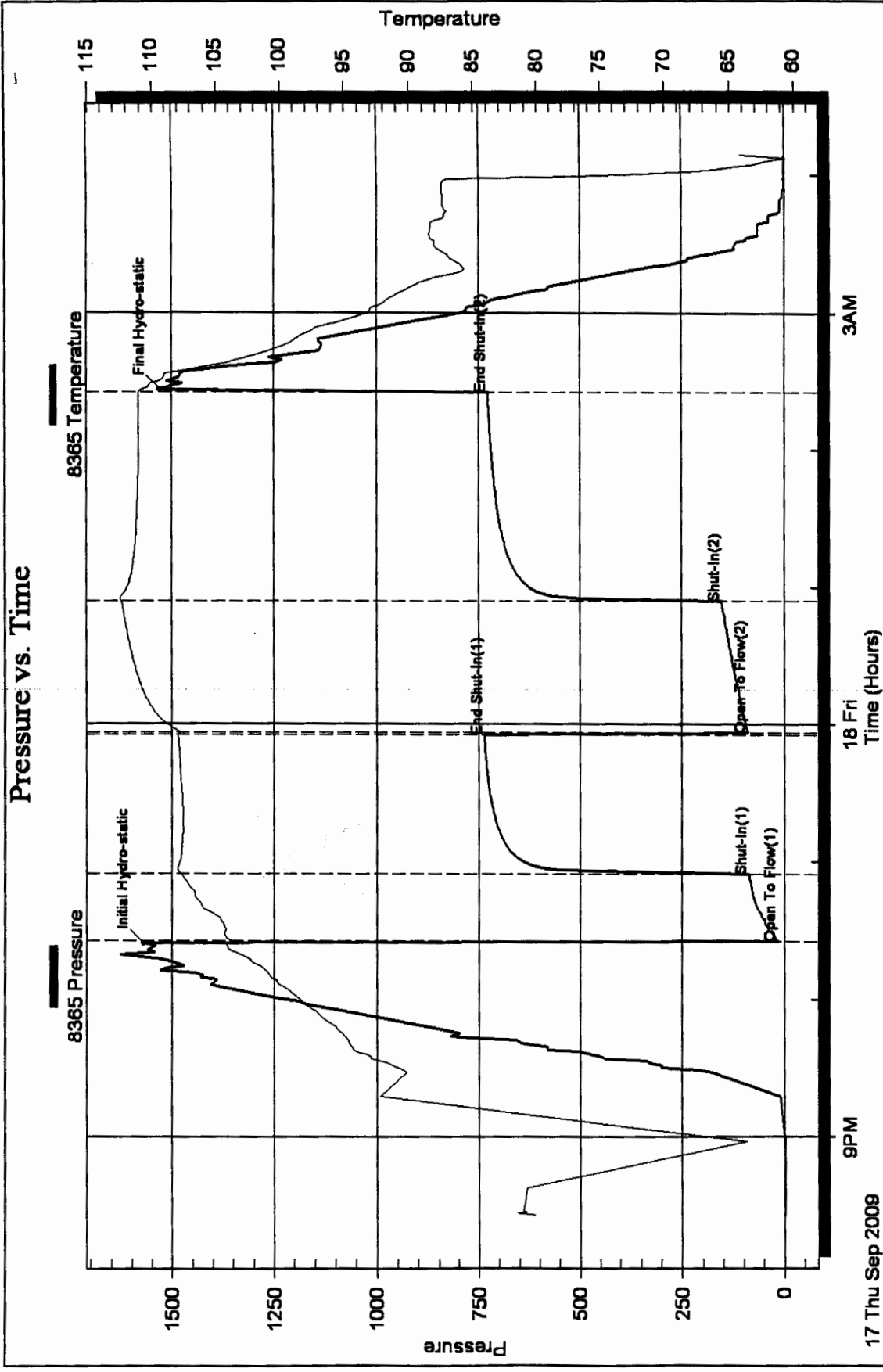
9-12s-21w Trego KS

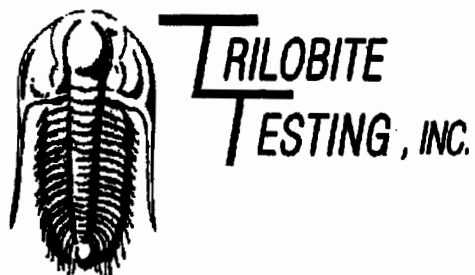
Murfin Drilling Co Inc

Inside

Serial #: 8365

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
Ste 300
Wichita Ks 67202-1216

ATTN: Scott Robinson

9-12s-21w Trego KS

PNK#1-9

Start Date: 2009.09.18 @ 12:16:27

End Date: 2009.09.18 @ 18:23:51

Job Ticket #: 36534 DST #: 2

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

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KCC WICHITA



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36534

DST#: 2

Test Start: 2009.09.18 @ 12:16:27

GENERAL INFORMATION:

Formation: **Lacompton Lime**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:44:52

Time Test Ended: 18:23:51

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **3489.00 ft (KB) To 3513.00 ft (KB) (TVD)**

Total Depth: 3513.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2327.00 ft (KB)

2322.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8365 Inside

Press@RunDepth: 27.94 psig @ 3490.01 ft (KB)

Start Date: 2009.09.18

End Date:

2009.09.18

Start Time: 12:16:27

End Time:

18:23:51

Capacity: 8000.00 psig

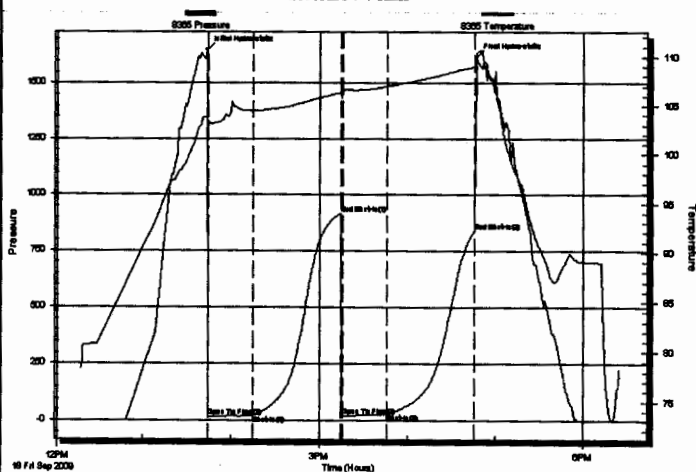
Last Calib.: 2009.09.18

Time On Btrr: 2009.09.18 @ 13:43:52

Time Off Btrr: 2009.09.18 @ 16:46:52

TEST COMMENT: IFF-wk bl thru-out 1/8"bl
FFP-wk bl thru-out 1/2"to 1"bl
Times 30-60-30-60

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1647.44	103.84	Initial Hydro-static
1	15.23	103.29	Open To Flow (1)
31	22.83	104.52	Shut-In (1)
91	917.45	106.36	End Shut-In (1)
92	19.76	106.62	Open To Flow (2)
122	27.94	107.00	Shut-In (2)
182	840.15	109.03	End Shut-In (2)
183	1616.86	110.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	60' GIP	0.00
10.00	HO&GCM 5% G35% O60% M	0.05
20.00	OCM 20% O80% M	0.10

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

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36534

DST#: 2

Test Start: 2009.09.18 @ 12:16:27

Tool Information

Drill Pipe:	Length: 3361.00 ft	Diameter: 3.80 inches	Volume: 47.15 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 47.74 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3489.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.02 ft			
Tool Length:	52.02 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			3462.00	
Shut In Tool	5.00			3467.00	
Hydraulic tool	5.00			3472.00	
Jars	5.00			3477.00	
Safety Joint	2.00			3479.00	
Packer	5.00			3484.00	28.00 Bottom Of Top Packer
Packer	5.00			3489.00	
Stubb	1.00			3490.00	
Recorder	0.01	8365	Inside	3490.01	
Recorder	0.01	6625	Outside	3490.02	
Perforations	20.00			3510.02	
Bullnose	3.00			3513.02	24.02 Bottom Packers & Anchor

Total Tool Length: 52.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36534

DST#: 2

Test Start: 2009.09.18 @ 12:16:27

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 7.44 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	60'GIP	0.000
10.00	HO&GCM 5%G35%O60%M	0.049
20.00	OCM 20%O80%M	0.098

Total Length: 30.00 ft

Total Volume: 0.147 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

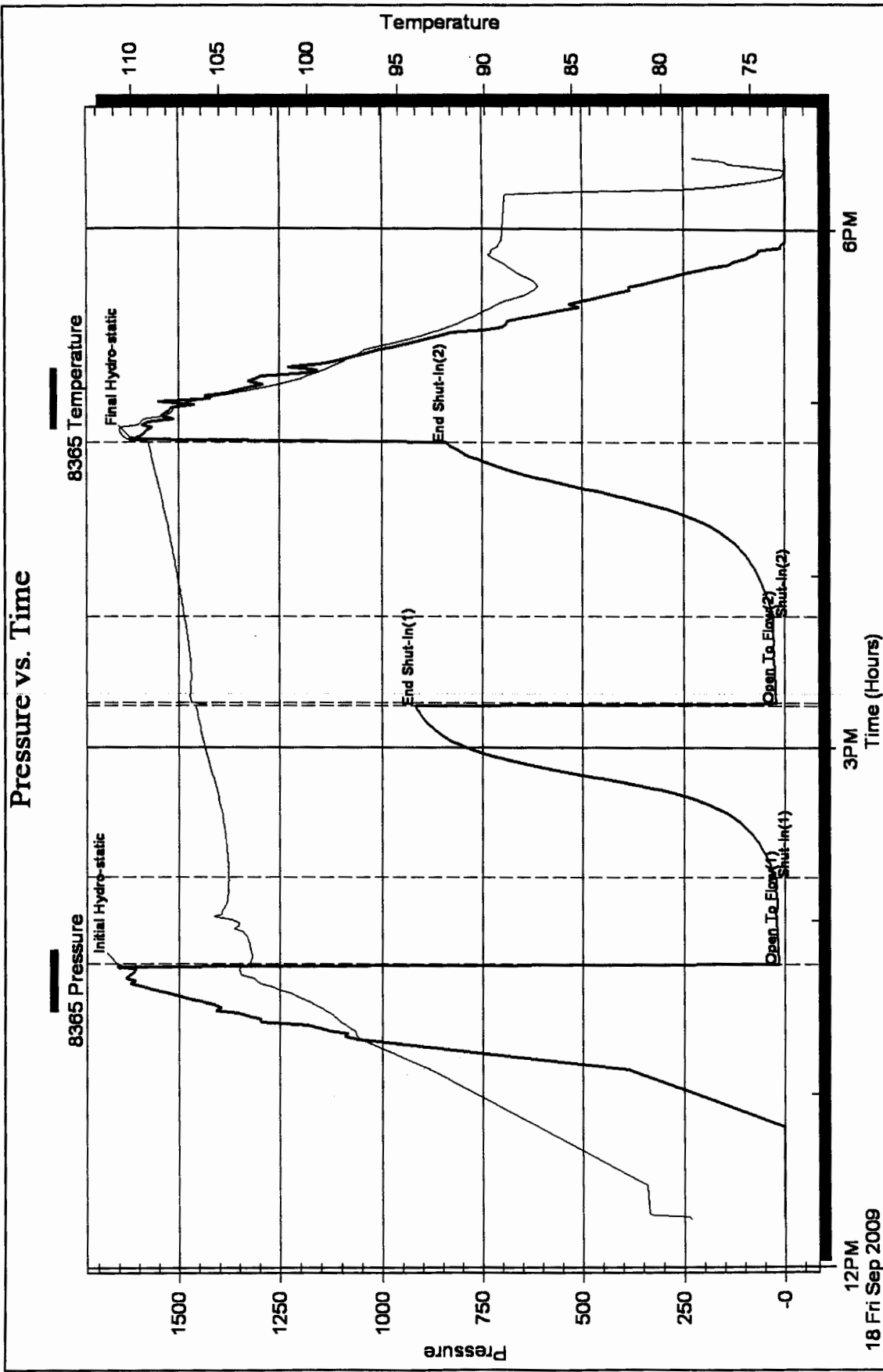
Serial #:

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
Ste 300
Wichita Ks 67202-1216

ATTN: Scott Robinson

9-12s-21w Trego KS

PNK#1-9

Start Date: 2009.09.19 @ 07:01:51

End Date: 2009.09.19 @ 12:45:15

Job Ticket #: 36535 DST #: 3

RECEIVED

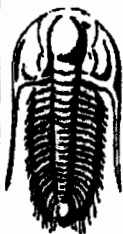
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Trilobite Testing, Inc

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
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

PNK#1-9

9-12s-21w Trego KS

Job Ticket: 36535

DST#: 3

Test Start: 2009.09.19 @ 07:01:51

GENERAL INFORMATION:

Formation: **Toronto, LKC "A"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 08:39:16

Time Test Ended: 12:45:15

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3588.00 ft (KB) To 3647.00 ft (KB) (TVD)**

Total Depth: **3647.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2327.00 ft (KB)**

2322.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8365

Inside

Press@RunDepth: **36.97 psig @ 3592.01 ft (KB)**

Start Date: **2009.09.19**

End Date:

2009.09.19

Start Time: **07:01:51**

End Time:

12:45:15

Capacity: **8000.00 psig**

Last Calib.: **2009.09.19**

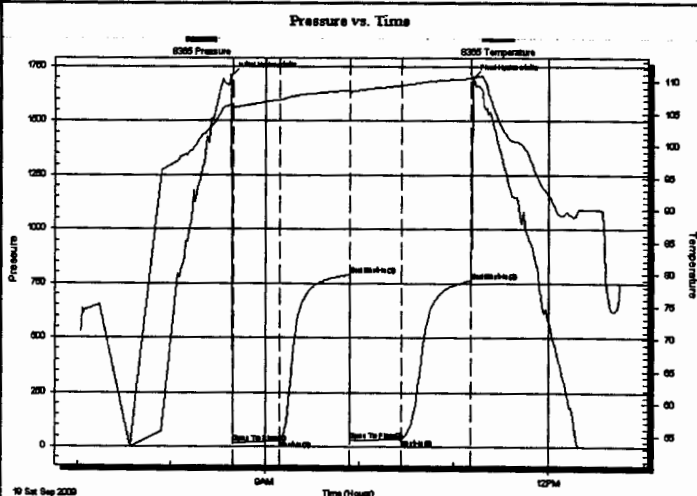
Time On Btm: **2009.09.19 @ 08:38:16**

Time Off Btm: **2009.09.19 @ 11:12:16**

TEST COMMENT: **IFP-surface bl, died in 20 min**

FFP-no bl

Times 30-45-30-45



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1706.44	106.31	Initial Hydro-static
1	16.98	105.76	Open To Flow (1)
31	27.44	107.11	Shut-in(1)
76	789.10	108.60	End Shut-in(1)
76	28.99	108.08	Open To Flow (2)
109	36.97	109.38	Shut-in(2)
153	762.06	110.45	End Shut-in(2)
154	1697.08	110.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 8% O82%M	0.10

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

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36535

DST#: 3

Test Start: 2009.09.19 @ 07:01:51

Tool Information

Drill Pipe:	Length: 3462.00 ft	Diameter: 3.80 inches	Volume: 48.56 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 49.15 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3588.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.02 ft			
Tool Length:	87.02 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			3561.00	
Shut In Tool	5.00			3566.00	
Hydraulic tool	5.00			3571.00	
Jars	5.00			3576.00	
Safety Joint	2.00			3578.00	
Packer	5.00			3583.00	28.00 Bottom Of Top Packer
Packer	5.00			3588.00	
Stubb	1.00			3589.00	
Perforations	3.00			3592.00	
Recorder	0.01	8365	Inside	3592.01	
Recorder	0.01	6625	Outside	3592.02	
Blank Spacing	32.00			3624.02	
Perforations	20.00			3644.02	
Bullnose	3.00			3647.02	59.02 Bottom Packers & Anchor

Total Tool Length: 87.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36535

DST#: 3

Test Start: 2009.09.19 @ 07:01:51

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.44 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OCM 8% O 82% M	0.098

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

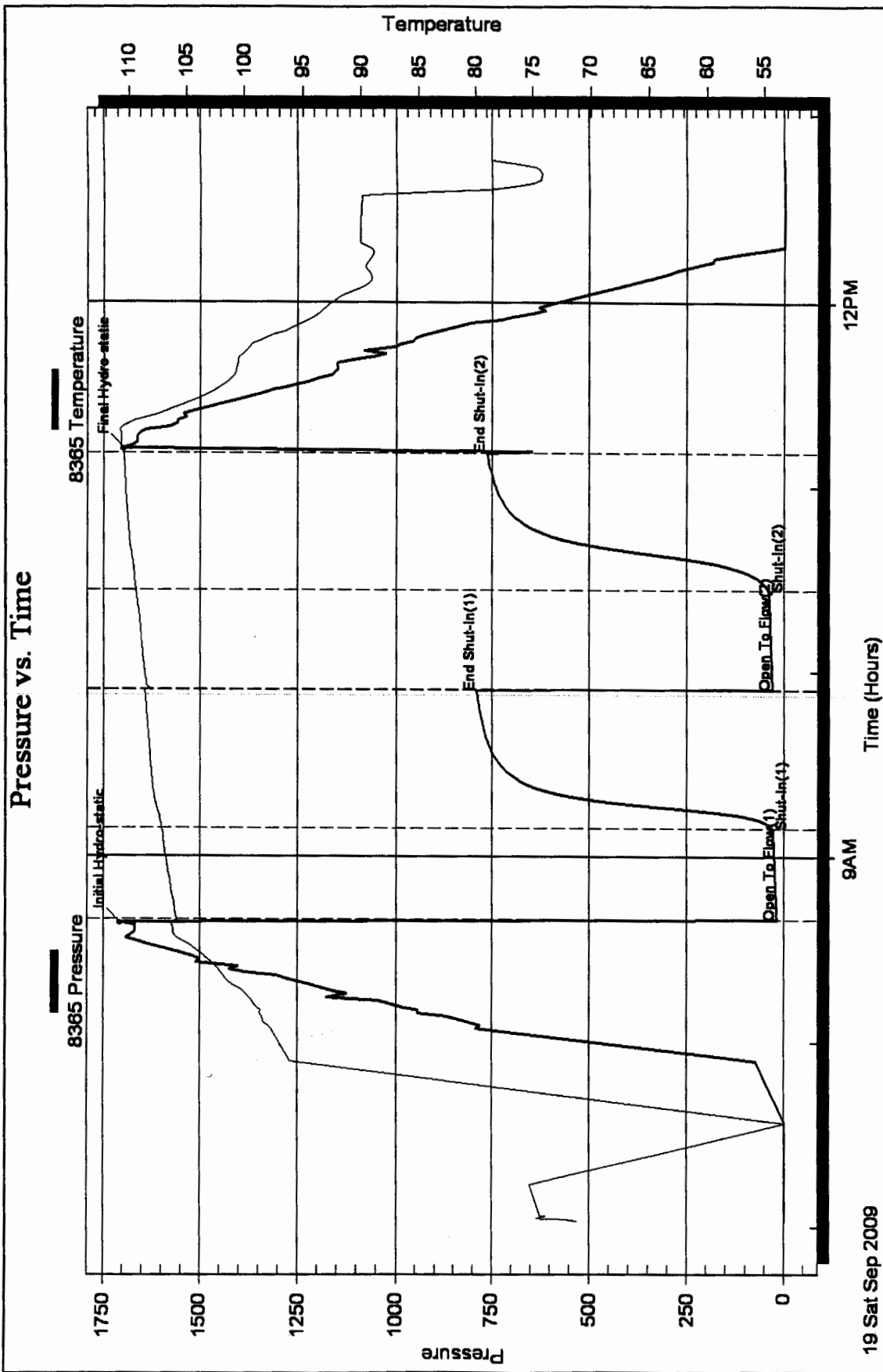
DST Test Number: 3

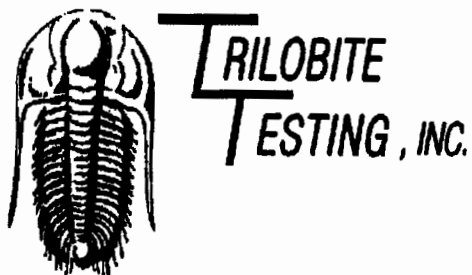
9-12s-21w Trego KS

Murfin Drilling Co Inc

Inside

Serial #: 8365





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
Ste 300
Wichita Ks 67202-1216

ATTN: Scott Robinson

9-12s-21w Trego KS

PNK#1-9

Start Date: 2009.09.19 @ 22:52:46

End Date: 2009.09.20 @ 06:24:10

Job Ticket #: 36536 DST #: 4

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JAN 06 2010

KCC WICHITA

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
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

PNK#1-9

9-12s-21w Trego KS

Job Ticket: 36536

DST#: 4

Test Start: 2009.09.19 @ 22:52:46

GENERAL INFORMATION:

Formation: **LKC lower A-D**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 00:33:11

Time Test Ended: 06:24:10

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3645.00 ft (KB) To 3710.00 ft (KB) (TVD)**

Total Depth: **3710.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2327.00 ft (KB)**

2322.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8365

Inside

Press@RunDepth: **60.92 psig @ 3650.01 ft (KB)**

Start Date: **2009.09.19**

End Date:

2009.09.20

Capacity: **8000.00 psig**

Last Calib.: **2009.09.20**

Start Time: **22:52:46**

End Time:

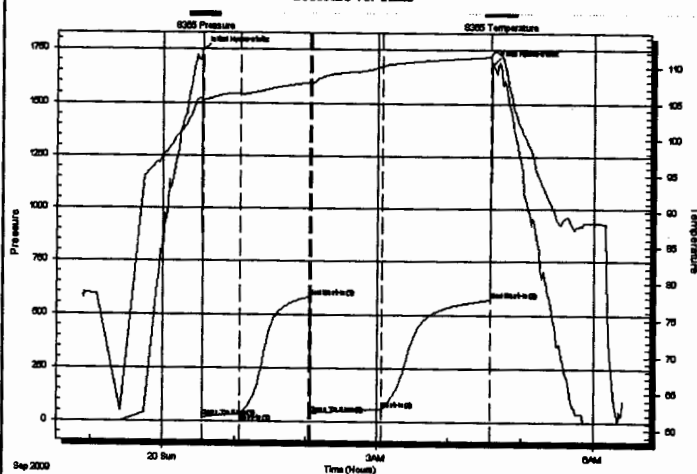
06:24:10

Time On Btrr: **2009.09.20 @ 00:32:41**

Time Off Btrr: **2009.09.20 @ 04:36:10**

TEST COMMENT: IFF-w k bl thru-out 1/2" to 2 1/4" bl
FFP-w k bl thru-out 1/2" to 2" bl
Times 30-60-60-90

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1743.33	105.76	Initial Hydro-static
1	17.89	105.21	Open To Flow (1)
32	34.51	106.25	Shut-In (1)
90	580.64	107.83	End Shut-In (1)
91	38.35	107.62	Open To Flow (2)
151	60.92	110.05	Shut-In (2)
242	569.72	111.42	End Shut-In (2)
244	1684.27	112.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 12% O88%M	0.05
60.00	HO&GCM 25% G35% O40%M	0.30
0.00	110' GIP	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

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36536

DST#: 4

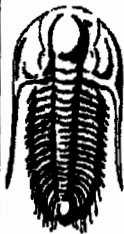
Test Start: 2009.09.19 @ 22:52:46

Tool Information

Drill Pipe:	Length:	3524.00 ft	Diameter:	3.80 inches	Volume:	49.43 bbl	Tool Weight:	2200.00 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:	120.00 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:	65000.00 lb
					Total Volume:	50.02 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		27.00 ft					String Weight: Initial	56000.00 lb
Depth to Top Packer:		3645.00 ft					Final	56000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		65.02 ft						
Tool Length:		93.02 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			3618.00	
Shut In Tool	5.00			3623.00	
Hydraulic tool	5.00			3628.00	
Jars	5.00			3633.00	
Safety Joint	2.00			3635.00	
Packer	5.00			3640.00	28.00 Bottom Of Top Packer
Packer	5.00			3645.00	
Stubb	1.00			3646.00	
Perforations	4.00			3650.00	
Recorder	0.01	8365	Inside	3650.01	
Recorder	0.01	6625	Outside	3650.02	
Blank Spacing	32.00			3682.02	
Perforations	25.00			3707.02	
Bullnose	3.00			3710.02	65.02 Bottom Packers & Anchor

Total Tool Length: 93.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36536

DST#: 4

Test Start: 2009.09.19 @ 22:52:46

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 7.44 in³

Resistivity: ohm.m

Salinity: 3600.00 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
10.00	OCM 12% O88%M	0.049
60.00	HO&GCM 25% G35% O40%M	0.295
0.00	110' GP	0.000

Total Length: 70.00 ft

Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

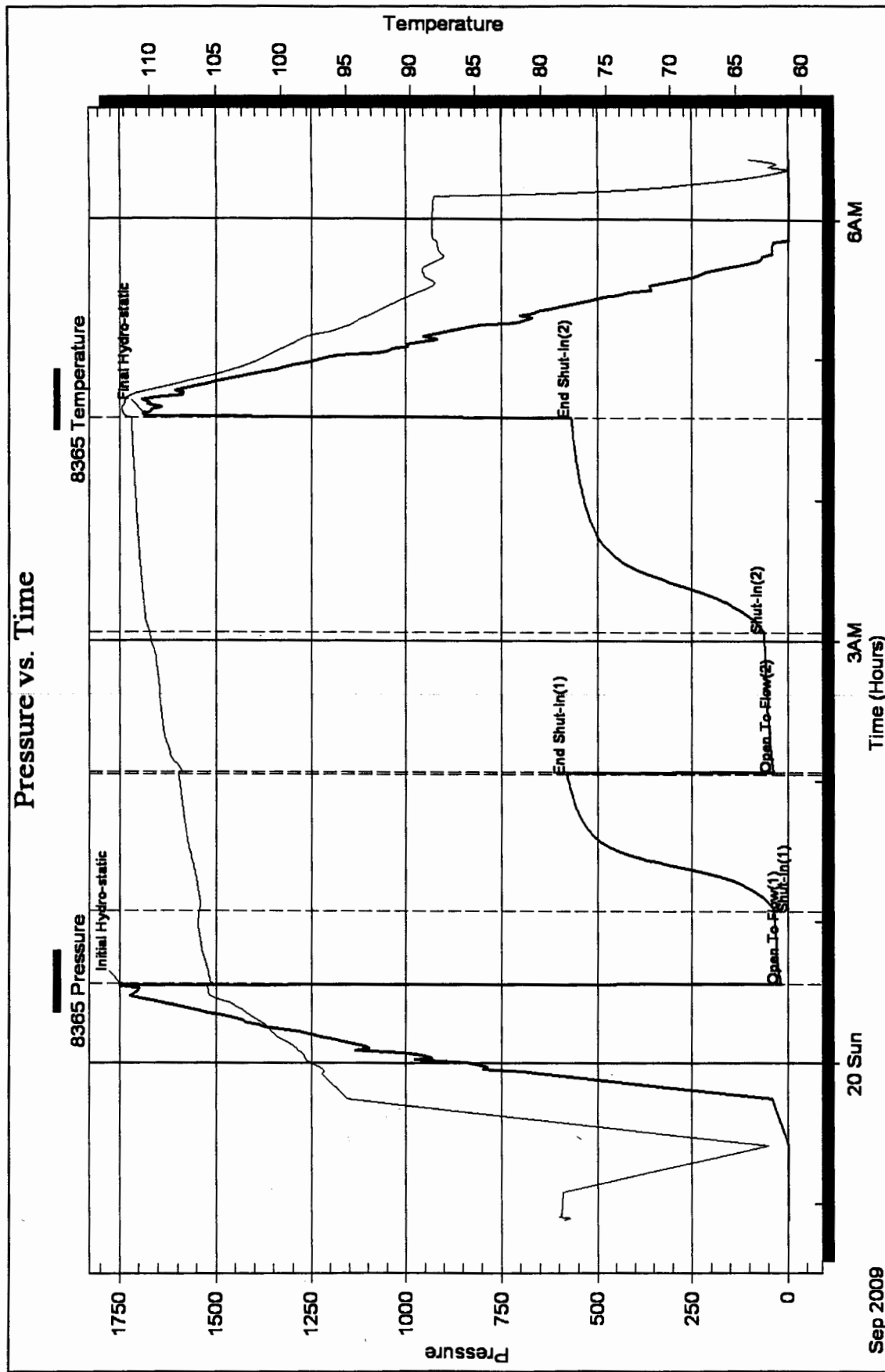
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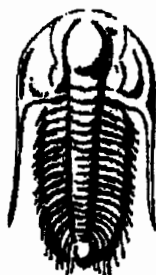
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
Ste 300
Wichita Ks 67202-1216

ATTN: Scott Robinson

9-12s-21w Trego KS

PNK#1-9

Start Date: 2009.09.20 @ 15:25:37

End Date: 2009.09.20 @ 22:49:31

Job Ticket #: 36537 DST #: 5

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KCC WICHITA

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

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36537

DST#: 5

Test Start: 2009.09.20 @ 15:25:37

GENERAL INFORMATION:

Formation: LKC F-G

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:11:32

Time Test Ended: 22:49:31

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: 3707.00 ft (KB) To 3735.00 ft (KB) (TVD)

Total Depth: 3735.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2327.00 ft (KB)

2322.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8365 Inside

Press@RunDepth: 105.69 psig @ 3708.01 ft (KB)

Start Date: 2009.09.20

End Date:

2009.09.20

Start Time: 15:25:37

End Time:

22:49:31

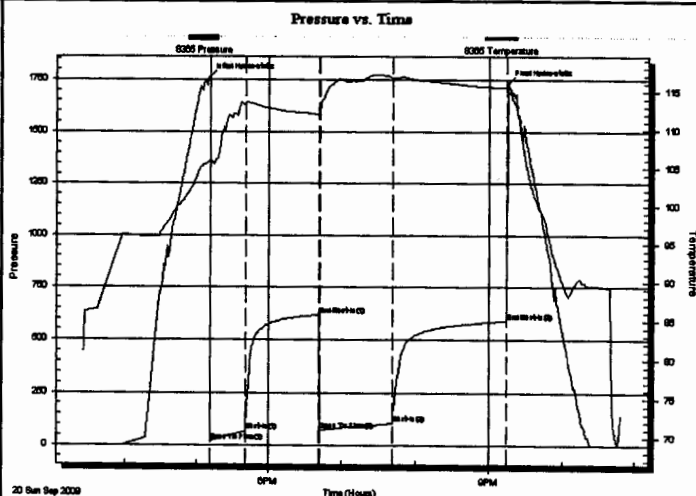
Capacity: 8000.00 psig

Last Calib.: 2009.09.20

Time On Btm: 2009.09.20 @ 17:10:32

Time Off Btm: 2009.09.20 @ 21:15:01

TEST COMMENT: IFF-wk to a fr bl 1/2" to 3 3/4" bl
FFP-wk bl thru-out surface to 1/8" bl
Times 30-60-60-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1756.94	105.64	Initial Hydro-static
1	17.98	105.19	Open To Flow (1)
31	68.94	113.41	Shut-In (1)
91	617.27	111.92	End Shut-In (1)
92	72.27	111.95	Open To Flow (2)
151	105.69	116.69	Shut-In (2)
244	589.91	115.42	End Shut-In (2)
245	1729.30	114.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW 15%MB5%W w/show of oil	0.32
120.00	Water	1.18

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36537

DST#: 5

Test Start: 2009.09.20 @ 15:25:37

Tool Information

Drill Pipe:	Length: 3588.00 ft	Diameter: 3.80 inches	Volume: 50.33 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 50.92 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3707.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.02 ft			
Tool Length:	56.02 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			3680.00	
Shut In Tool	5.00			3685.00	
Hydraulic tool	5.00			3690.00	
Jars	5.00			3695.00	
Safety Joint	2.00			3697.00	
Packer	5.00			3702.00	28.00 Bottom Of Top Packer
Packer	5.00			3707.00	
Stubb	1.00			3708.00	
Recorder	0.01	8365	Inside	3708.01	
Recorder	0.01	6625	Outside	3708.02	
Perforations	24.00			3732.02	
Bullnose	3.00			3735.02	28.02 Bottom Packers & Anchor

Total Tool Length: 56.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36537

DST#: 5

Test Start: 2009.09.20 @ 15:25:37

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 7.43 in³

Resistivity: ohm.m

Salinity: 3600.00 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: 43000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	MW 15%MB5%W w/show of oil	0.320
120.00	Water	1.182

Total Length: 185.00 ft

Total Volume: 1.502 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.19@85F

Serial #: 8365

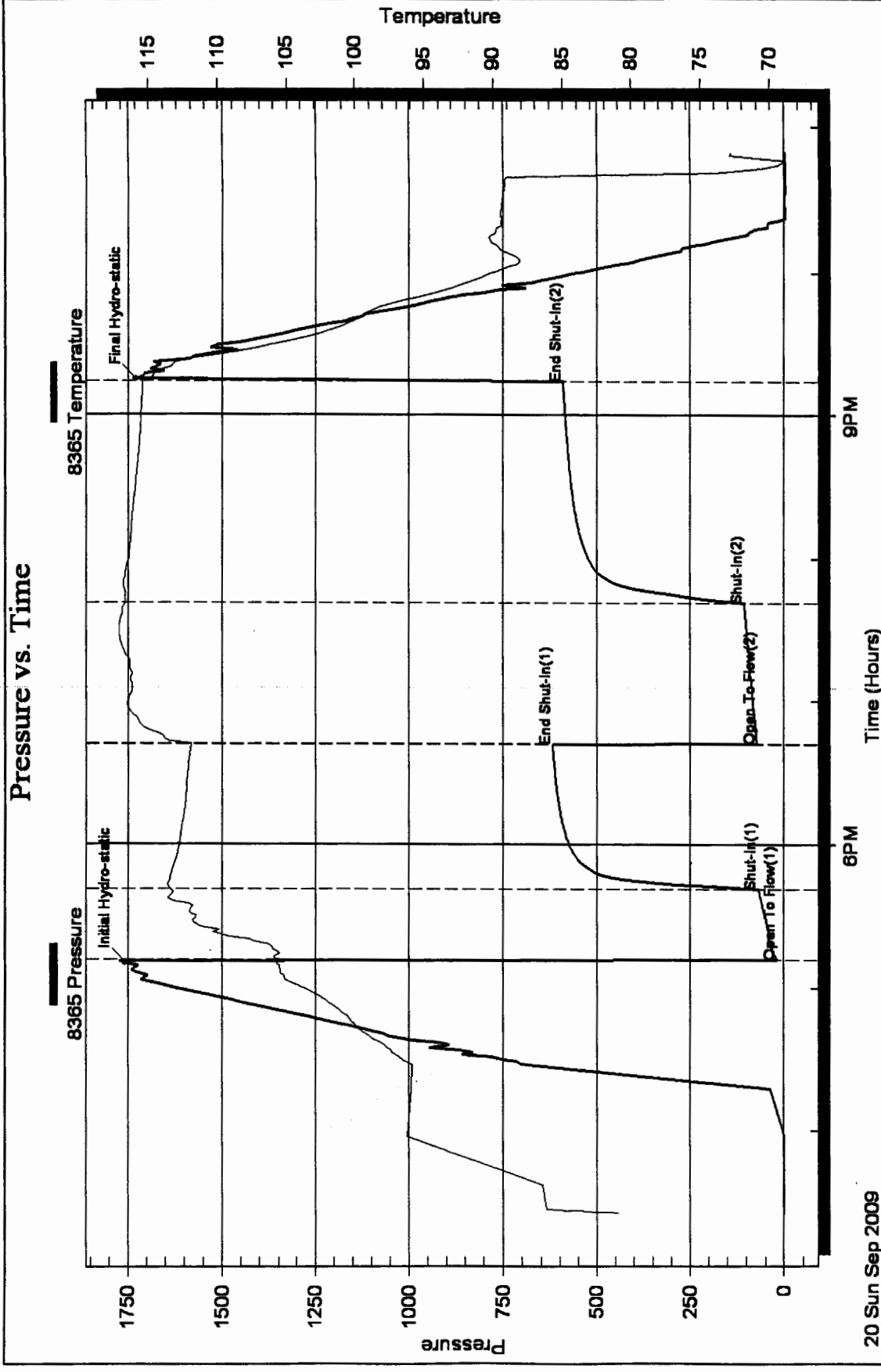
Inside

Murfin Drilling Co Inc

9-12s-21w Trego KS

DST Test Number: 5

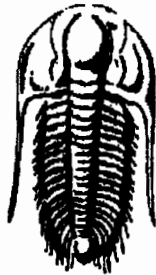
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 36537

Printed: 2009.10.09 @ 11:32:15 Page 5



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
Ste 300
Wichita Ks 67202-1216

ATTN: Scott Robinson

9-12s-21w Trego KS

PNK#1-9

Start Date: 2009.09.21 @ 06:53:19

End Date: 2009.09.21 @ 13:21:43

Job Ticket #: 36538 DST #: 6

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KCC WICHITA

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
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

PNK#1-9

9-12s-21w Trego KS

Job Ticket: 36538

DST#: 6

Test Start: 2009.09.21 @ 06:53:19

GENERAL INFORMATION:

Formation: **LKC H-I**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 08:41:44

Time Test Ended: 13:21:43

Interval: **3745.00 ft (KB) To 3792.00 ft (KB) (TVD)**

Total Depth: **3792.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Reference Elevations: **2327.00 ft (KB)**

2322.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: **29.84 psig @ 3757.01 ft (KB)**

Start Date: **2009.09.21**

End Date:

2009.09.21

Capacity: **8000.00 psig**

Last Calib.: **2009.09.22**

Start Time: **06:53:19**

End Time:

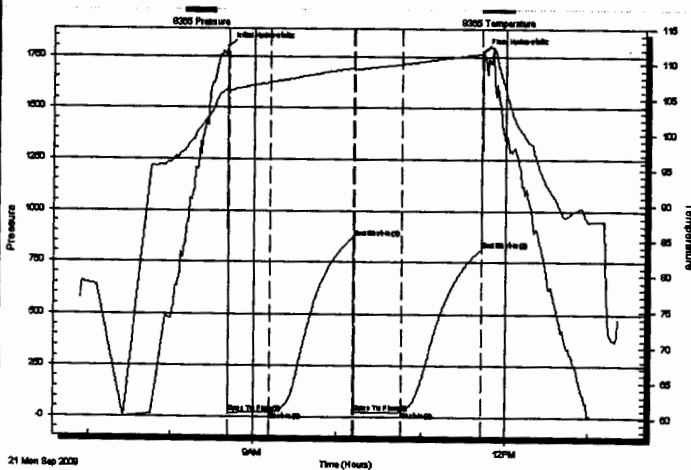
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Time On Btmr: **2009.09.21 @ 08:41:14**

Time Off Btmr: **2009.09.21 @ 11:43:43**

TEST COMMENT: **IFP-surface bl thru-out**
FFP-no bl
Times 30-60-30-60

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1795.91	106.52	Initial Hydro-static
1	20.55	105.80	Open To Flow (1)
31	21.70	107.36	Shut-In (1)
91	869.84	109.41	End Shut-In (1)
91	23.03	109.14	Open To Flow (2)
125	29.84	109.96	Shut-In (2)
182	813.25	111.43	End Shut-In (2)
183	1773.89	111.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

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

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36538

DST#: 6

Test Start: 2009.09.21 @ 06:53:19

Tool Information

Drill Pipe:	Length: 3619.00 ft	Diameter: 3.80 inches	Volume: 50.77 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 51.36 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3745.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.02 ft			
Tool Length:	75.02 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			3718.00	
Shut In Tool	5.00			3723.00	
Hydraulic tool	5.00			3728.00	
Jars	5.00			3733.00	
Safety Joint	2.00			3735.00	
Packer	5.00			3740.00	28.00 Bottom Of Top Packer
Packer	5.00			3745.00	
Stubb	1.00			3746.00	
Perforations	11.00			3757.00	
Recorder	0.01	8365	Inside	3757.01	
Recorder	0.01	6625	Outside	3757.02	
Blank Spacing	32.00			3789.02	
Bullnose	3.00			3792.02	47.02 Bottom Packers & Anchor

Total Tool Length: 75.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36538

DST#: 6

Test Start: 2009.09.21 @ 06:53:19

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.44 in³

Resistivity: ohm.m

Salinity: 4100.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.010

Total Length: 2.00 ft

Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8365

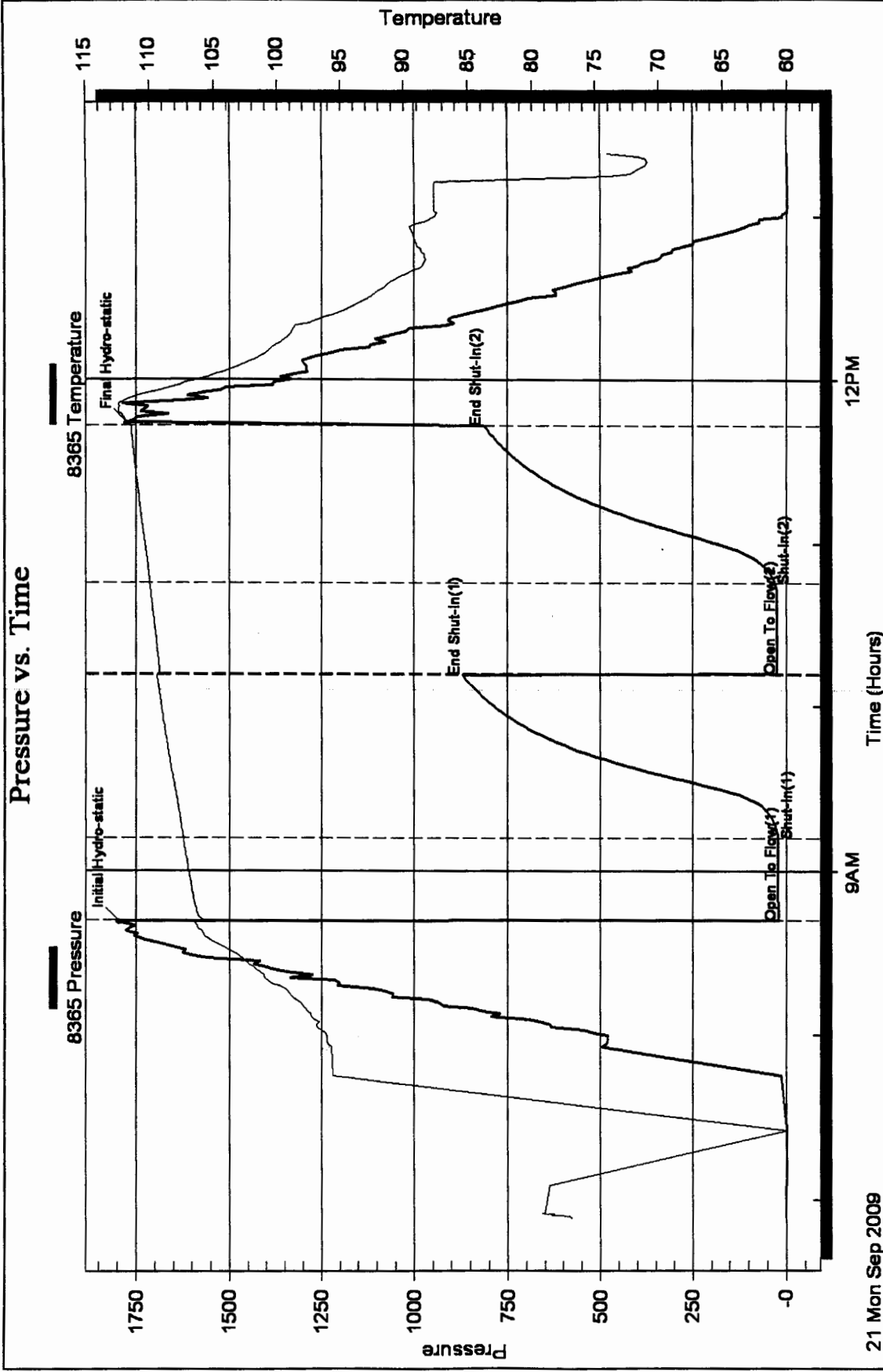
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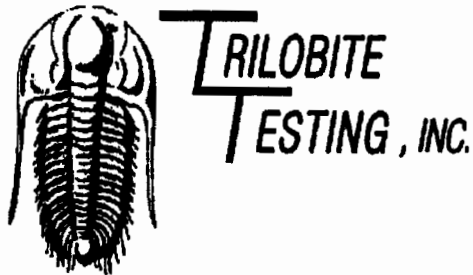
Murfin Drilling Co Inc

9-12s-21w Trego KS

DST Test Number: 6

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
Ste 300
Wichita Ks 67202-1216

ATTN: Scott Robinson

9-12s-21w Trego KS

PNK#1-9

Start Date: 2009.09.21 @ 22:52:59

End Date: 2009.09.22 @ 04:25:23

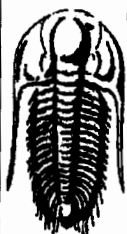
Job Ticket #: 36539 DST #: 7

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KCC WICHITA

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
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

PNK#1-9

9-12s-21w Trego KS

Job Ticket: 36539

DST#: 7

Test Start: 2009.09.21 @ 22:52:59

GENERAL INFORMATION:

Formation: **LKC J,K L**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 00:20:24

Time Test Ended: 04:25:23

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3789.00 ft (KB) To 3860.00 ft (KB) (TVD)**

Total Depth: **3860.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2327.00 ft (KB)**

2322.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8365

Inside

Press@RunDepth: **31.12 psig @ 3794.01 ft (KB)**

Start Date: **2009.09.21**

End Date:

2009.09.22

Start Time: **22:52:59**

End Time:

04:25:23

Capacity: **8000.00 psig**

Last Calib.: **2009.09.22**

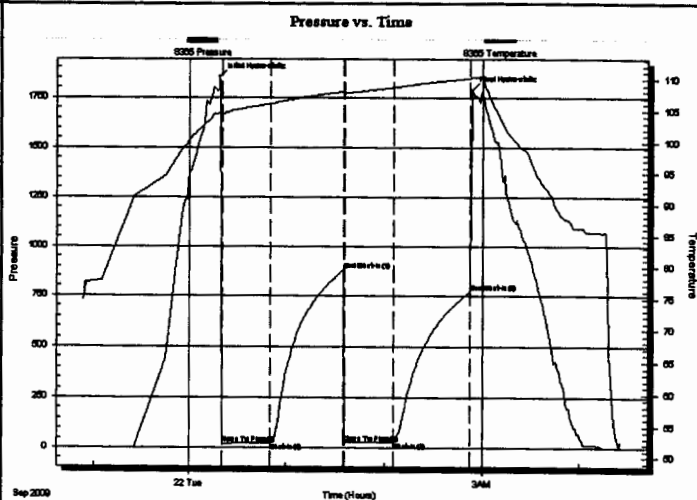
Time On Btrn: **2009.09.22 @ 00:18:54**

Time Off Btrn: **2009.09.22 @ 02:53:24**

TEST COMMENT: IFF-wk bl thru-out 1/2"bl

FFP-no bl

Times 30-45-30-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1850.43	104.69	Initial Hydro-static
2	19.39	104.34	Open To Flow (1)
32	25.46	106.17	Shut-In(1)
76	877.49	108.05	End Shut-In(1)
77	26.52	107.56	Open To Flow (2)
107	31.12	108.73	Shut-In(2)
154	770.61	110.18	End Shut-In(2)
155	1784.93	110.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud	0.10

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

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36539

DST#:7

Test Start: 2009.09.21 @ 22:52:59

Tool Information

Drill Pipe:	Length: 3649.00 ft	Diameter: 3.80 inches	Volume: 51.19 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 51.78 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3789.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.02 ft			
Tool Length:	109.02 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			3762.00	
Shut In Tool	5.00			3767.00	
Hydraulic tool	5.00			3772.00	
Jars	5.00			3777.00	
Safety Joint	2.00			3779.00	
Packer	5.00			3784.00	28.00 Bottom Of Top Packer
Packer	5.00			3789.00	
Stubb	1.00			3790.00	
Perforations	4.00			3794.00	
Recorder	0.01	8365	Inside	3794.01	
Recorder	0.01	6625	Outside	3794.02	
Blank Spacing	73.00			3867.02	
Bullnose	3.00			3870.02	81.02 Bottom Packers & Anchor

Total Tool Length: 109.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS
Job Ticket: 36539 DST#: 7
Test Start: 2009.09.21 @ 22:52:59

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 7.90 in³
Resistivity: ohm.m
Salinity: 4100.00 ppm
Filter Cake: 2.00 inches

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

Oil API:
Water Salinity: deg API
ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

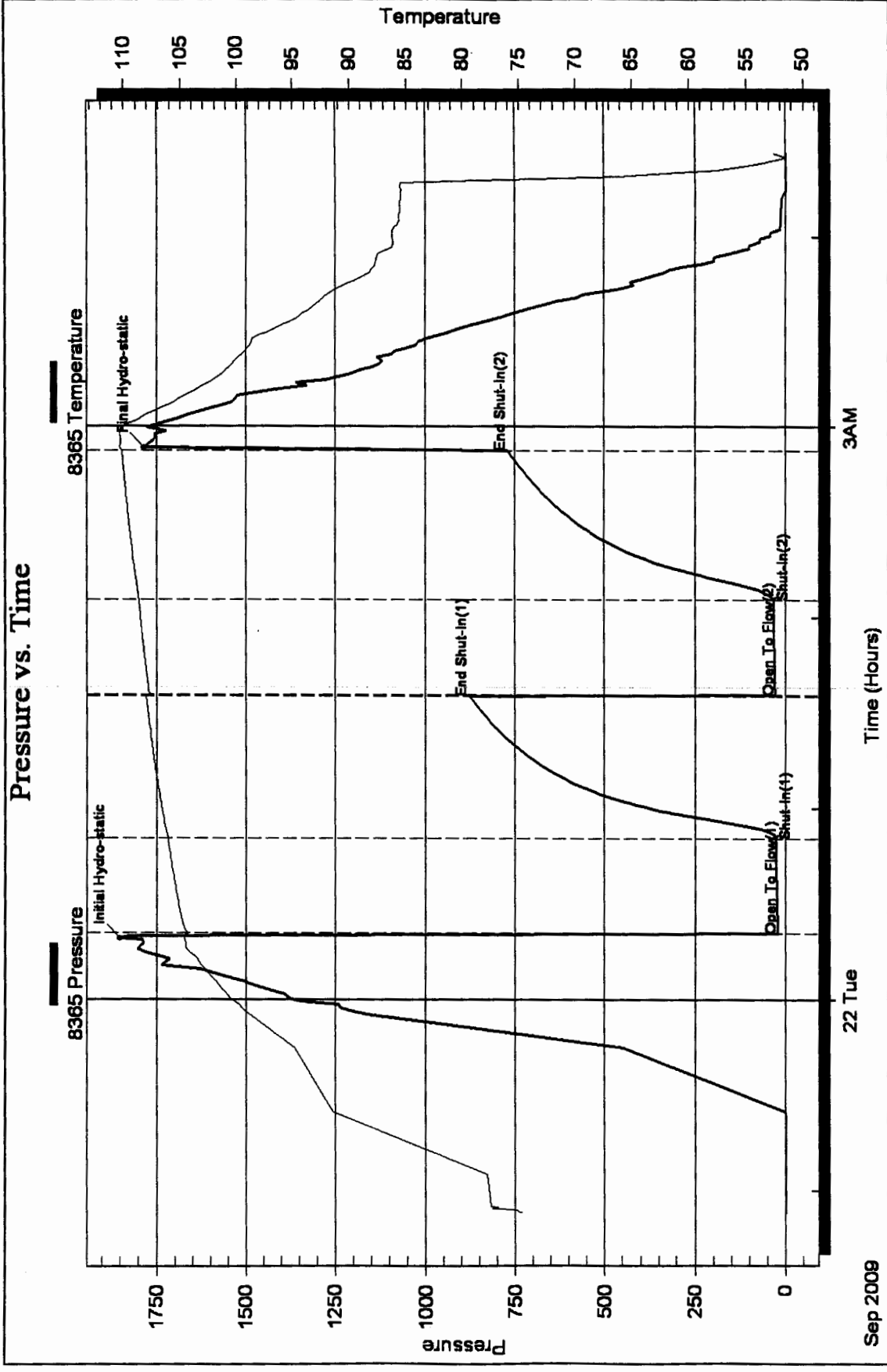
Serial #:

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
Ste 300
Wichita Ks 67202-1216

ATTN: Scott Robinson

9-12s-21w Trego KS

PNK#1-9

Start Date: 2009.09.22 @ 13:52:15

End Date: 2009.09.22 @ 20:27:09

Job Ticket #: 36540 DST #: 8

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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
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

PNK#1-9

9-12s-21w Trego KS

Job Ticket: 36540

DST#: 8

Test Start: 2009.09.22 @ 13:52:15

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:42:10

Time Test Ended: 20:27:09

Interval: **3929.00 ft (KB) To 3955.00 ft (KB) (TVD)**

Total Depth: **3955.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Reference Elevations: 2327.00 ft (KB)

2322.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8365**

Inside

Press@RunDepth: 25.22 psig @ 3930.01 ft (KB)

Start Date: 2009.09.22

End Date:

2009.09.22

Start Time: 13:52:15

End Time:

20:27:09

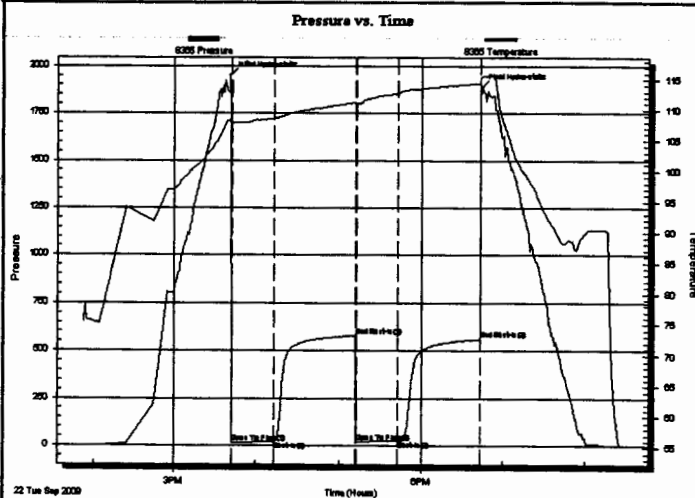
Capacity: 8000.00 psig

Last Calib.: 2009.09.22

Time On Btm: 2009.09.22 @ 15:41:10

Time Off Btm: 2009.09.22 @ 18:44:09

TEST COMMENT: IFF-surface bl thru-out
FFP-no bl
Times 30-60-30-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1948.55	108.45	Initial Hydro-static
1	14.29	107.32	Open To Flow (1)
32	19.89	108.64	Shut-In (1)
91	578.03	111.25	End Shut-In (1)
92	21.02	111.07	Open To Flow (2)
122	25.22	112.74	Shut-In (2)
182	559.74	114.45	End Shut-In (2)
183	1885.07	115.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 4% O 96% M	0.05

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

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS
Job Ticket: 36540 DST#: 8
Test Start: 2009.09.22 @ 13:52:15

Tool Information

Drill Pipe:	Length: 3807.00 ft	Diameter: 3.80 inches	Volume: 53.40 bbl	Tool Weight:	2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	53.99 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3929.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.02 ft				
Tool Length:	54.02 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			3902.00	
Shut In Tool	5.00			3907.00	
Hydraulic tool	5.00			3912.00	
Jars	5.00			3917.00	
Safety Joint	2.00			3919.00	
Packer	5.00			3924.00	28.00 Bottom Of Top Packer
Packer	5.00			3929.00	
Stubb	1.00			3930.00	
Recorder	0.01	8365	Inside	3930.01	
Recorder	0.01	6625	Outside	3930.02	
Perforations	22.00			3952.02	
Bullnose	3.00			3955.02	26.02 Bottom Packers & Anchor

Total Tool Length: 54.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36540

DST#: 8

Test Start: 2009.09.22 @ 13:52:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 7.16 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SOCM 4%O96%M	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 #: 8365

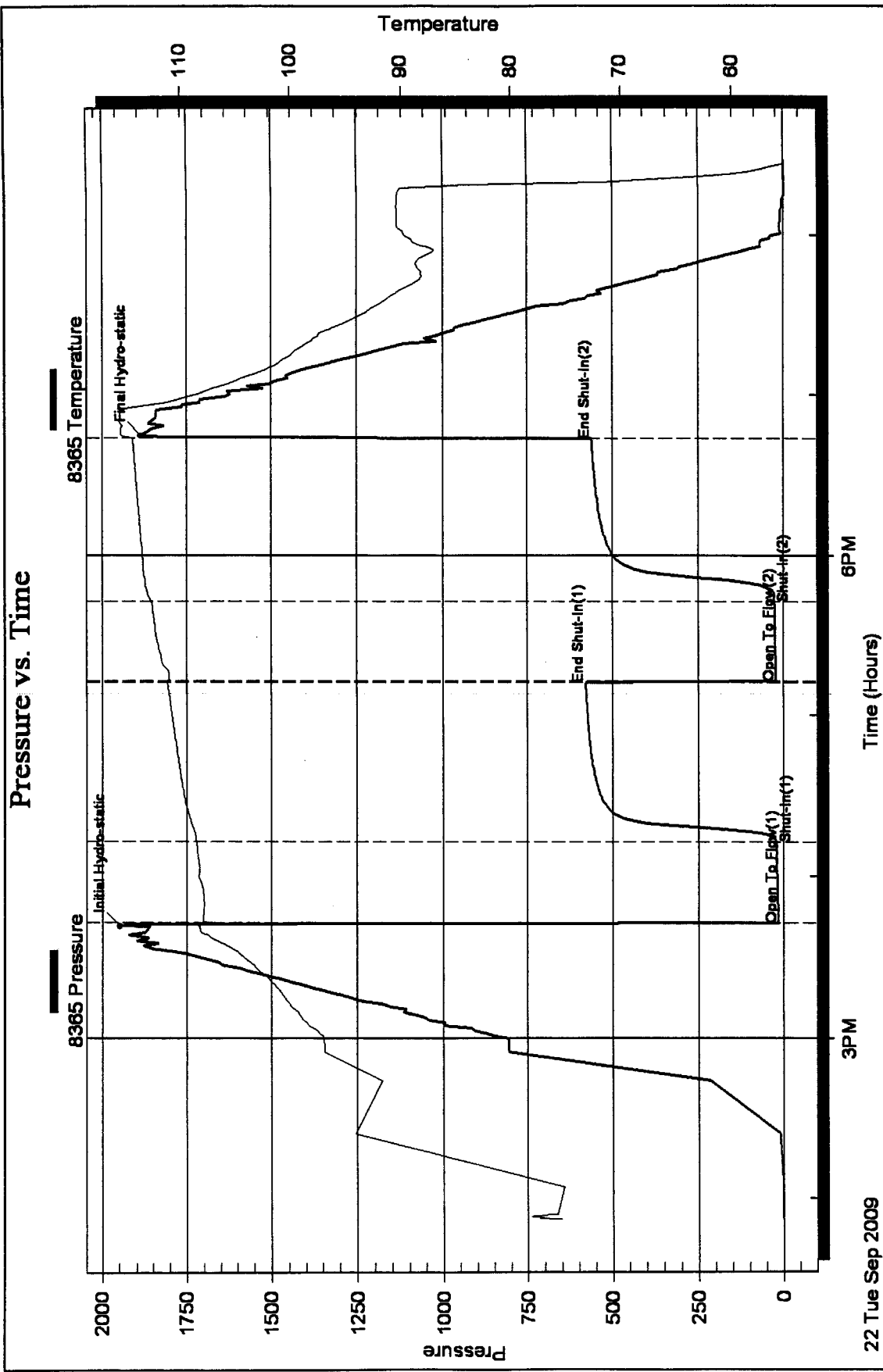
Inside

Murfin Drilling Co Inc

9-12s-21w Trego KS

DST Test Number: 8

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
Ste 300
Wichita Ks 67202-1216

ATTN: Scott Robinson

9-12s-21w Trego KS

PNK#1-9

Start Date: 2009.09.23 @ 08:15:59

End Date: 2009.09.23 @ 14:38:23

Job Ticket #: 36541 DST #: 9

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

PNK#1-9

9-12s-21w Trego KS

Job Ticket: 36541

DST#: 9

Test Start: 2009.09.23 @ 08:15:59

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 10:02:54

Time Test Ended: 14:38:23

Interval: **4005.00 ft (KB) To 4019.00 ft (KB) (TVD)**

Total Depth: **4019.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Reference Elevations: **2327.00 ft (KB)**

2322.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: **8365**

Inside

Press@RunDepth: **16.66 psig @ 4006.01 ft (KB)**

Start Date: **2009.09.23**

End Date:

2009.09.23

Capacity: **8000.00 psig**

Last Calib.: **2009.09.23**

Start Time: **08:15:59**

End Time:

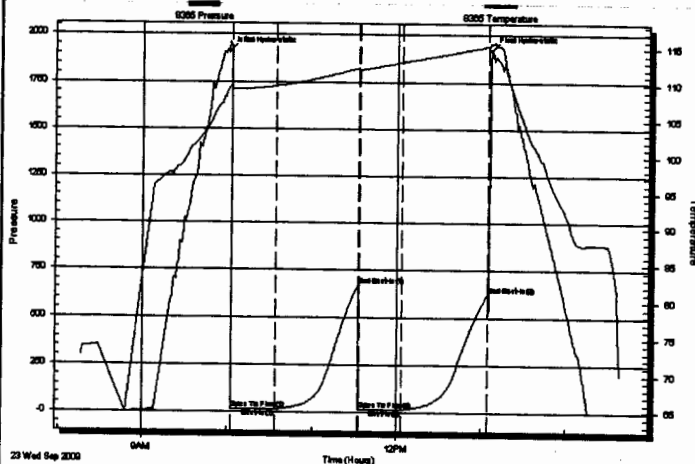
14:38:23

Time On Btm: **2009.09.23 @ 10:00:54**

Time Off Btm: **2009.09.23 @ 13:06:54**

TEST COMMENT: IFF-w k bl thru-out 1/2" to 3/4" bl
FFP-no bl
Times 30-60-30-60

Pressure vs. Time



PRESSURE SUMMARY

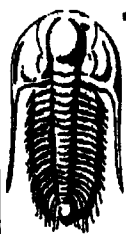
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1909.70	109.54	Initial Hydro-static
2	16.50	109.19	Open To Flow (1)
33	16.48	109.76	Shut-in (1)
92	667.23	112.21	End Shut-in (1)
92	16.63	112.01	Open To Flow (2)
123	16.66	113.06	Shut-in (2)
184	623.44	115.29	End Shut-in (2)
186	1918.66	115.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	HOCM 25% O75%M	0.00
1.00	CO	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

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36541

DST#: 9

Test Start: 2009.09.23 @ 08:15:59

Tool Information

Drill Pipe:	Length: 3867.00 ft	Diameter: 3.80 inches	Volume: 54.24 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 54.83 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4005.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.02 ft			
Tool Length:	42.02 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			3978.00	
Shut In Tool	5.00			3983.00	
Hydraulic tool	5.00			3988.00	
Jars	5.00			3993.00	
Safety Joint	2.00			3995.00	
Packer	5.00			4000.00	28.00 Bottom Of Top Packer
Packer	5.00			4005.00	
Stubb	1.00			4006.00	
Recorder	0.01	8365	Inside	4006.01	
Recorder	0.01	6625	Outside	4006.02	
Perforations	10.00			4016.02	
Bullnose	3.00			4019.02	14.02 Bottom Packers & Anchor

Total Tool Length: 42.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36541

DST#: 9

Test Start: 2009.09.23 @ 08:15:59

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.95 in³

Resistivity: ohm.m

Salinity: 4100.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	HOCM 25%O75%M	0.005
1.00	CO	0.005

Total Length: 2.00 ft

Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 9

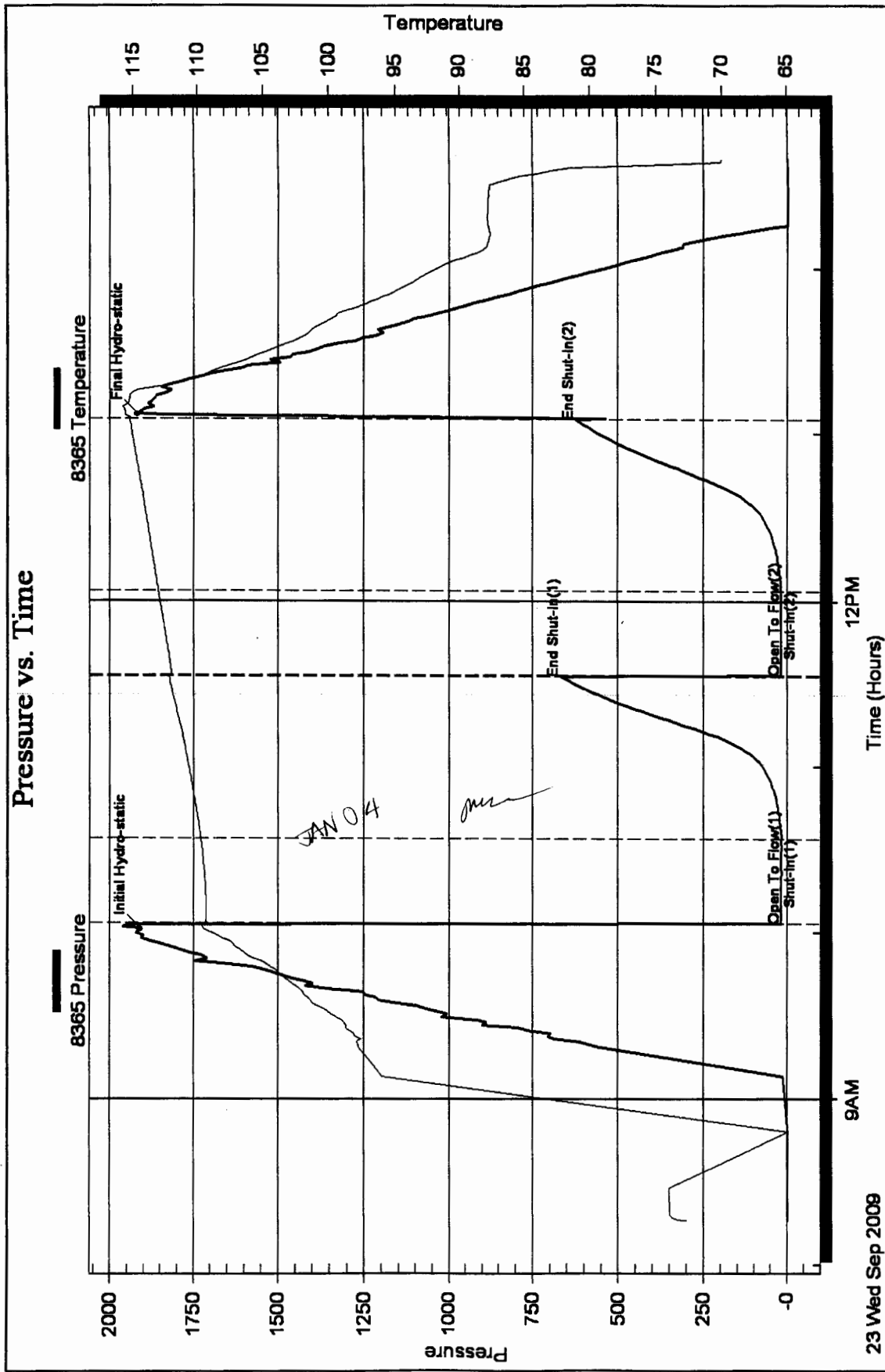
9-12s-21w Trego KS

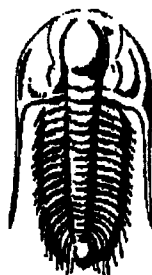
Murfin Drilling Co Inc

Inside

Serial #: 8365

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
Ste 300
Wichita Ks 67202-1216

ATTN: Scott Robinson

9-12s-21w Trego KS

PNK#1-9

Start Date: 2009.09.23 @ 22:42:41

End Date: 2009.09.24 @ 05:11:05

Job Ticket #: 36542 DST #: 10

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36542

DST#: 10

Test Start: 2009.09.23 @ 22:42:41

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 00:27:06

Time Test Ended: 05:11:05

Interval: **4019.00 ft (KB) To 4039.00 ft (KB) (TVD)**

Total Depth: **4039.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Reference Elevations: **2327.00 ft (KB)**

2322.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: **30.20 psig @ 4020.01 ft (KB)**

Start Date: **2009.09.23**

End Date:

2009.09.24

Start Time: **22:42:41**

End Time:

05:11:05

Capacity: **8000.00 psig**

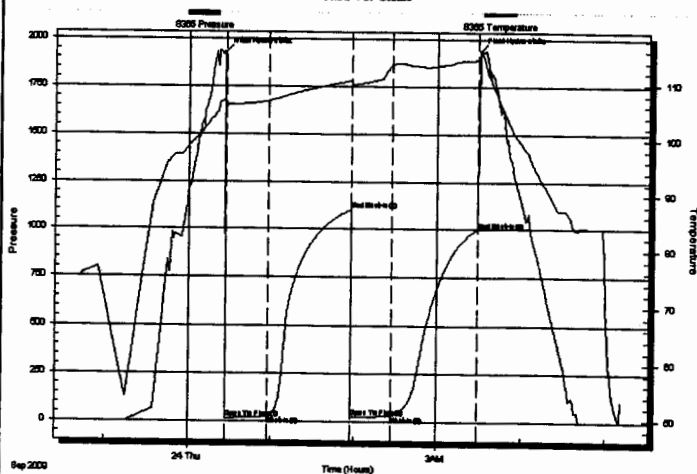
Last Calib.: **2009.09.24**

Time On Btmr: **2009.09.24 @ 00:26:06**

Time Off Btmr: **2009.09.24 @ 03:30:05**

TEST COMMENT: IFF-wk bl thru-out 1/4" to 1" bl
FFP-surface bl thru-out
Times 30-60-30-60

Pressure vs. Time



PRESSURE SUMMARY

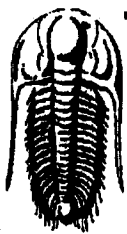
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1927.50	107.11	Initial Hydro-static
1	14.82	105.67	Open To Flow (1)
31	24.05	107.04	Shut-In (1)
91	1101.01	110.71	End Shut-In (1)
92	25.37	110.25	Open To Flow (2)
121	30.20	113.58	Shut-In (2)
183	998.20	114.45	End Shut-In (2)
184	1937.26	115.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OO	0.02
10.00	OCM 10% O90%M	0.05

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

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36542

DST#: 10

Test Start: 2009.09.23 @ 22:42:41

Tool Information

Drill Pipe:	Length: 3898.00 ft	Diameter: 3.80 inches	Volume: 54.68 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 55.27 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4019.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.02 ft			
Tool Length:	48.02 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			3992.00	
Shut In Tool	5.00			3997.00	
Hydraulic tool	5.00			4002.00	
Jars	5.00			4007.00	
Safety Joint	2.00			4009.00	
Packer	5.00			4014.00	28.00 Bottom Of Top Packer
Packer	5.00			4019.00	
Stubb	1.00			4020.00	
Recorder	0.01	8365	Inside	4020.01	
Recorder	0.01	6625	Outside	4020.02	
Perforations	16.00			4036.02	
Bullnose	3.00			4039.02	20.02 Bottom Packers & Anchor

Total Tool Length: 48.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS
Job Ticket: 36542 DST#: 10
Test Start: 2009.09.23 @ 22:42:41

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 7.45 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 30 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OO	0.025
10.00	OCM 10%O90%M	0.049

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8365

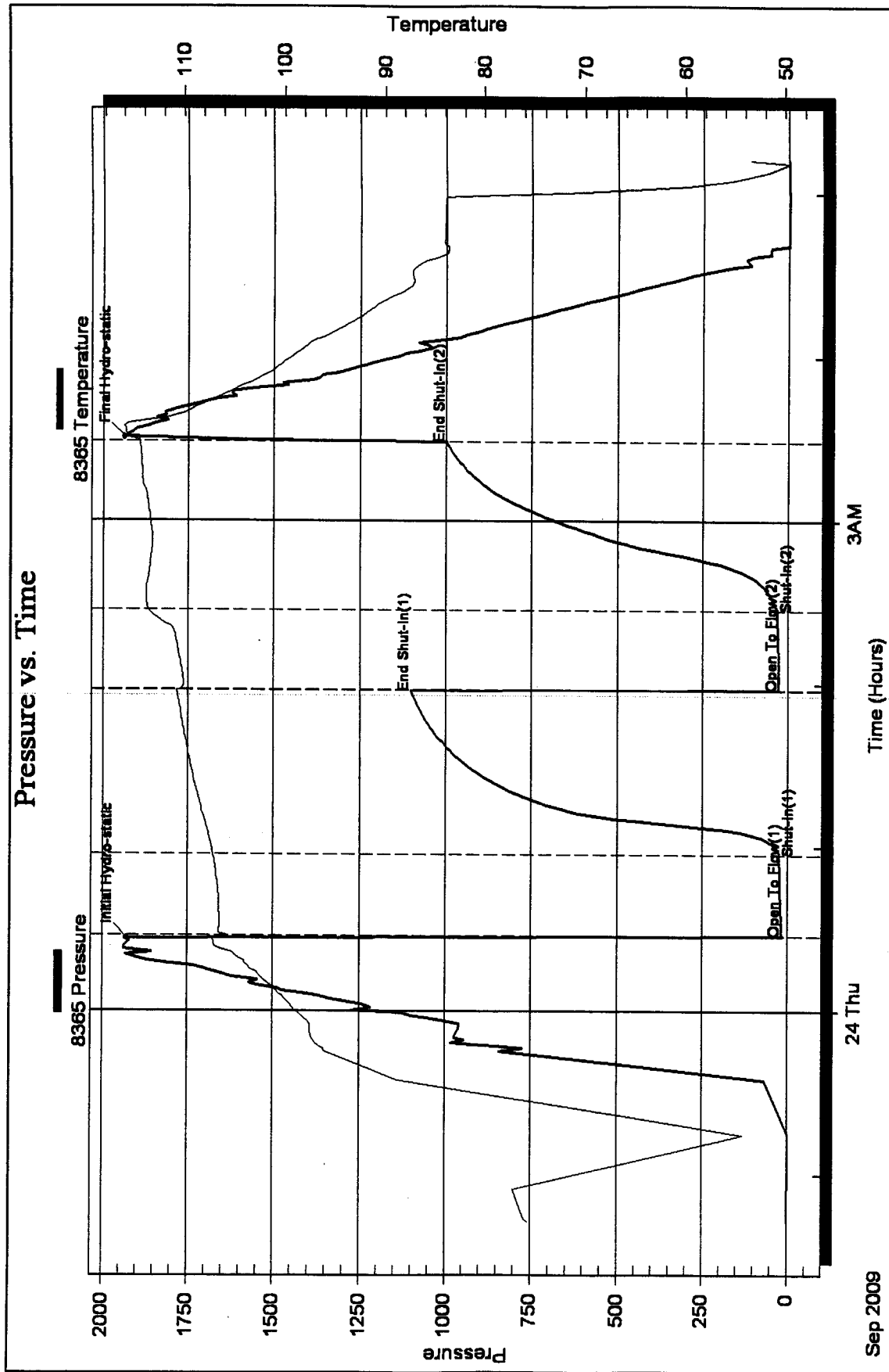
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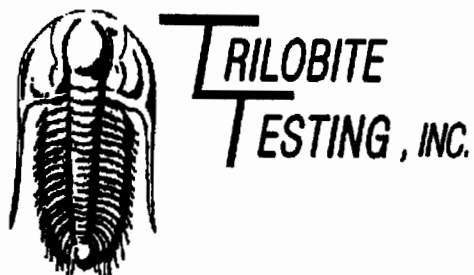
Murfin Drilling Co Inc

9-12s-21w Trego KS

DST Test Number: 10

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
Ste 300
Wichita Ks 67202-1216

ATTN: Scott Robinson

9-12s-21w Trego KS

PNK#1-9

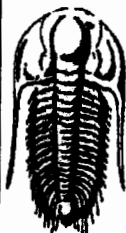
Start Date: 2009.09.24 @ 10:03:20

End Date: 2009.09.24 @ 16:31:14

Job Ticket #: 36543 DST #: 11

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

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KCC WICHITA



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

PNK#1-9

9-12s-21w Trego KS

Job Ticket: 36543

DST#: 11

Test Start: 2009.09.24 @ 10:03:20

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:39:15

Time Test Ended: 16:31:14

Interval: **4039.00 ft (KB) To 4049.00 ft (KB) (TVD)**

Total Depth: 4049.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Reference Elevations: 2327.00 ft (KB)

2322.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8365** Inside

Press@RunDepth: 51.81 psig @ 4040.01 ft (KB)

Start Date: 2009.09.24

End Date:

2009.09.24

Start Time: 10:03:20

End Time:

16:31:14

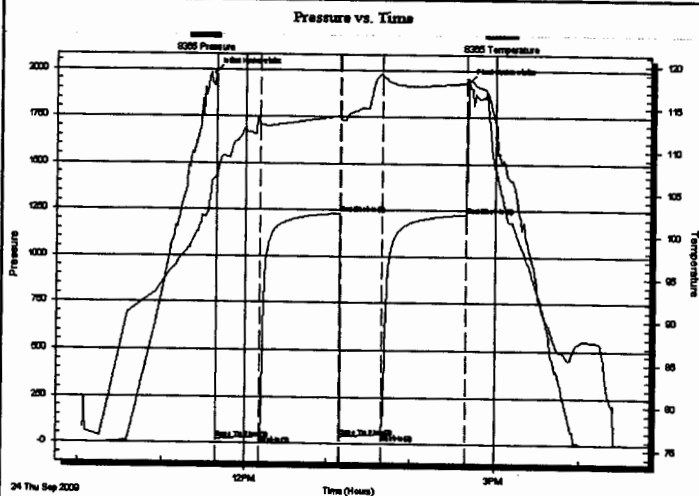
Capacity: 8000.00 psig

Last Calib.: 2009.09.24

Time On Btm: 2009.09.24 @ 11:38:15

Time Off Btm: 2009.09.24 @ 14:40:44

TEST COMMENT: IFF-wk bl thru-out 1/2" to 2" bl
FFP-surface bl thru-out
Times 30-60-30-60



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1980.88	106.79	Initial Hydro-static
1	19.16	106.26	Open To Flow (1)
33	35.92	113.28	Shut-in(1)
91	1232.24	114.14	End Shut-in(1)
91	38.01	113.71	Open To Flow (2)
121	51.81	118.98	Shut-in(2)
182	1227.85	118.00	End Shut-in(2)
183	1934.33	118.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCWM 10%OI20%W 70%M	0.05
60.00	SOCWM 1%O49%W50%M	0.30

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

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12a-21w Trego KS

Job Ticket: 36543

DST#: 11

Test Start: 2009.09.24 @ 10:03:20

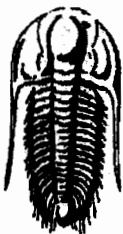
Tool Information

Drill Pipe:	Length: 3900.00 ft	Diameter: 3.80 inches	Volume: 54.71 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 55.30 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4039.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.02 ft			
Tool Length:	38.02 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			4012.00	
Shut In Tool	5.00			4017.00	
Hydraulic tool	5.00			4022.00	
Jars	5.00			4027.00	
Safety Joint	2.00			4029.00	
Packer	5.00			4034.00	28.00 Bottom Of Top Packer
Packer	5.00			4039.00	
Stubb	1.00			4040.00	
Recorder	0.01	8365	Inside	4040.01	
Recorder	0.01	6625	Outside	4040.02	
Perforations	6.00			4046.02	
Bullnose	3.00			4049.02	10.02 Bottom Packers & Anchor

Total Tool Length: 38.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

PNK#1-9

250 N. Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

9-12s-21w Trego KS

Job Ticket: 36543

DST#: 11

Test Start: 2009.09.24 @ 10:03:20

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.42 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

20000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCWM 10%Oil20%W 70%M	0.049
60.00	SOCWM 1%O49%W50%M	0.295

Total Length: 70.00 ft

Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .3 @ 75F

L
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-
T

DST Test Number: 11

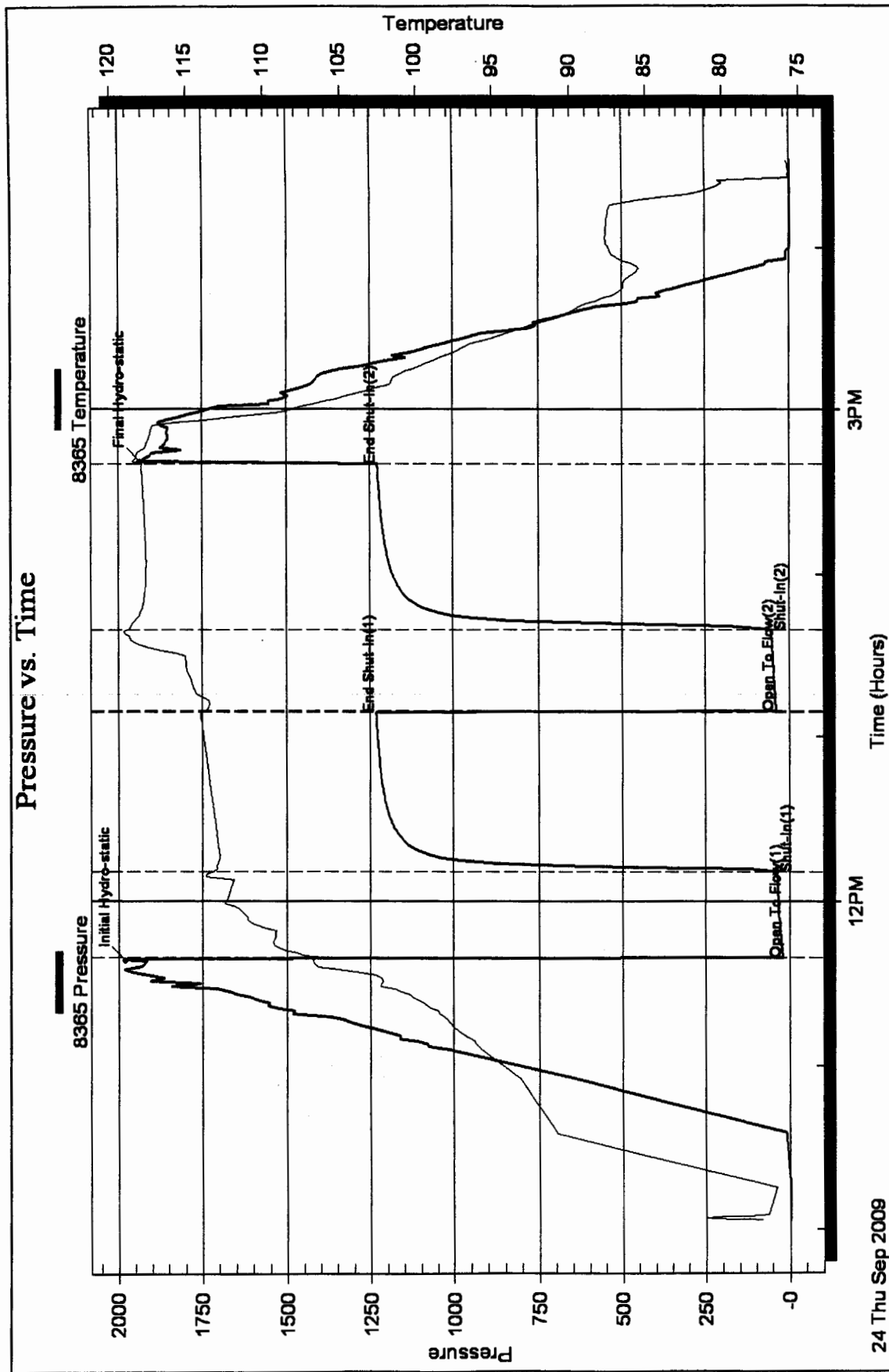
9-12s-21w Trego KS

Murfin Drilling Co Inc

Inside

Serial #: 8365

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 36543

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