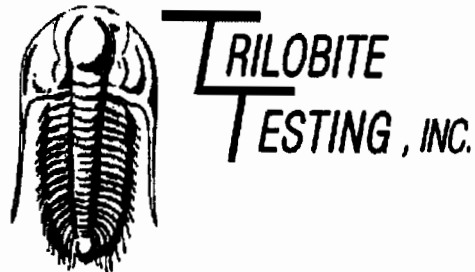


15-051-25917

10-14s-19w



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Paul Gunzelman

10-14s-19w Ellis KS

Kraus 1-10

Start Date: 2009.10.16 @ 21:43:10

End Date: 2009.10.17 @ 03:22:04

Job Ticket #: 35512 DST #: 1

RECEIVED

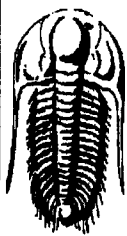
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KCC WICHITA

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

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Paul Gunzelman

Kraus 1-10

10-14s-19w Ellis KS

Job Ticket: 35512

DST#: 1

Test Start: 2009.10.16 @ 21:43:10

GENERAL INFORMATION:

Formation: **LKC "B"**

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

Time Tool Opened: 23:26:35

Time Test Ended: 03:22:04

Interval: **3548.00 ft (KB) To 3570.00 ft (KB) (TVD)**

Total Depth: **3570.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition:

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Reference Elevations: **2215.00 ft (KB)**

2210.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8371

Inside

Press@RunDepth: **19.98 psig @ 3550.00 ft (KB)**

Start Date: **2009.10.16**

End Date: **2009.10.17**

Capacity: **8000.00 psig**

Last Calib.: **2009.10.17**

Start Time: **21:43:10**

End Time: **03:22:04**

Time On Btm: **2009.10.16 @ 23:25:35**

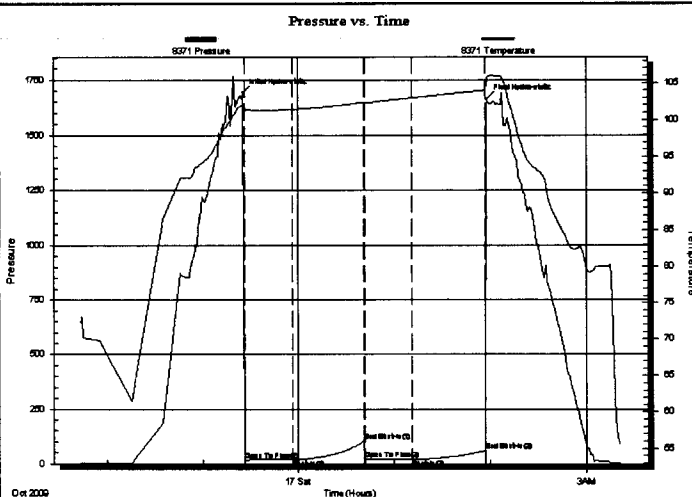
Time Off Btm: **2009.10.17 @ 01:58:05**

TEST COMMENT: IFP - 1/4" blow - died 25 min.

ISI - no blow back

FFP - no blow

FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.19	101.94	Initial Hydro-static
1	17.60	101.19	Open To Flow (1)
31	19.81	101.42	Shut-In(1)
76	104.70	102.35	End Shut-In(1)
76	19.01	102.30	Open To Flow (2)
106	19.98	102.95	Shut-In(2)
152	60.02	103.99	End Shut-In(2)
153	1662.89	105.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud w/ O spts M100%	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Paul Gunzelman

Kraus 1-10

10-14s-19w Ellis KS

Job Ticket: 35512

DST#: 1

Test Start: 2009.10.16 @ 21:43:10

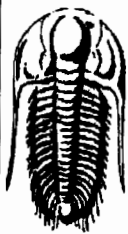
Tool Information

Drill Pipe:	Length: 3435.00 ft	Diameter: 3.80 inches	Volume: 48.18 bbl	Tool Weight: 2500.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume:	48.78 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3548.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3531.00	
Hydraulic tool	5.00			3536.00	
Safety Joint	2.00			3538.00	
Packer	5.00			3543.00	22.00 Bottom Of Top Packer
Packer	5.00			3548.00	
Stubb	1.00			3549.00	
Perforations	1.00			3550.00	
Recorder	0.00	8018	Inside	3550.00	
Recorder	0.00	8371	Inside	3550.00	
Perforations	15.00			3565.00	
Bullnose	3.00			3568.00	20.00 Bottom Packers & Anchor

Total Tool Length: 42.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Kraus 1-10

250 N. Water Ste. 300
Wichita, KS 67202

10-14s-19w Ellis KS

Job Ticket: 35512

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2009.10.16 @ 21:43:10

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.91 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud w/ O spts M100%	0.005

Total Length:

1.00 ft

Total Volume:

0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8371

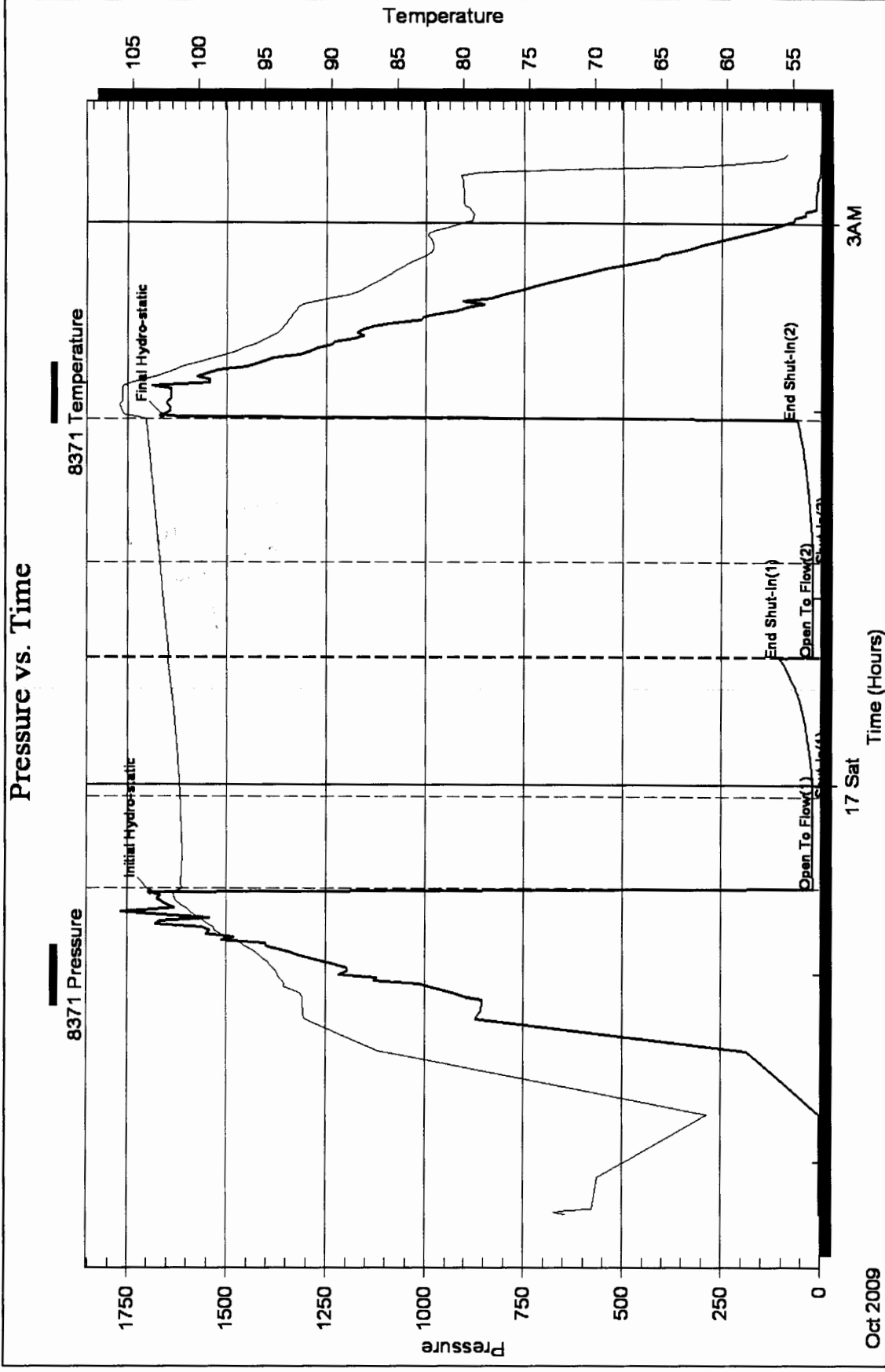
Inside

Murfin Drilling Co

10-14s-19w Ellis KS

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 35512

Printed: 2009.10.26 @ 14:23:30 Page 5



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Paul Gunzelman

10-14s-19w Ellis KS

Kraus 1-10

Start Date: 2009.10.17 @ 14:06:36

End Date: 2009.10.17 @ 19:51:00

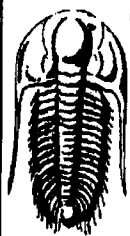
Job Ticket #: 35513 DST #: 2

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Paul Gunzelman

Kraus 1-10

10-14s-19w Ellis KS

Job Ticket: 35513

DST#: 2

Test Start: 2009.10.17 @ 14:06:36

GENERAL INFORMATION:

Formation: **LKC "D-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:49:31

Time Test Ended: 19:51:00

Interval: **3570.00 ft (KB) To 3650.00 ft (KB) (TVD)**

Total Depth: 3650.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Reference Elevations: 2215.00 ft (KB)

2210.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8371

Inside

Press@RunDepth: 71.74 psig @ 3573.00 ft (KB)

Start Date: 2009.10.17

End Date:

2009.10.17

Start Time: 14:06:36

End Time:

19:51:00

Capacity: 8000.00 psig

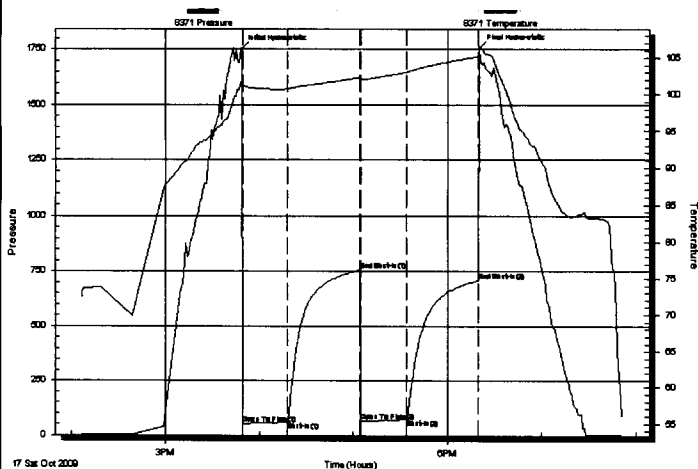
Last Calib.: 2009.10.17

Time On Btm: 2009.10.17 @ 15:48:31

Time Off Btm: 2009.10.17 @ 18:20:31

TEST COMMENT: IFP - weak blow throughout 1/4" - 1"
ISI - no blow back
FFP - no blow 16 min. - sur blow throughout
FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1752.02	101.85	Initial Hydro-static
1	51.16	101.25	Open To Flow (1)
30	59.21	100.78	Shut-In (1)
76	756.16	102.36	End Shut-In (1)
76	62.99	102.02	Open To Flow (2)
106	71.74	103.09	Shut-In (2)
151	707.46	105.20	End Shut-In (2)
152	1757.58	106.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100%	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Paul Gunzelman

Kraus 1-10

10-14s-19w Ellis KS

Job Ticket: 35513

DST#: 2

Test Start: 2009.10.17 @ 14:06:36

Tool Information

Drill Pipe:	Length: 3436.00 ft	Diameter: 3.80 inches	Volume: 48.20 bbl	Tool Weight: 2500.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 64000.00 lb
		Total Volume: 48.80 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3570.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	102.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3553.00	
Hydraulic tool	5.00			3558.00	
Safety Joint	2.00			3560.00	
Packer	5.00			3565.00	22.00 Bottom Of Top Packer
Packer	5.00			3570.00	
Stubb	1.00			3571.00	
Perforations	1.00			3572.00	
Change Over Sub	1.00			3573.00	
Recorder	0.00	8018	Inside	3573.00	
Recorder	0.00	8371	Inside	3573.00	
Blank Spacing	63.00			3636.00	
Change Over Sub	1.00			3637.00	
Perforations	10.00			3647.00	
Bullnose	3.00			3650.00	80.00 Bottom Packers & Anchor

Total Tool Length: 102.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Kraus 1-10

250 N. Water Ste. 300
Wichita, KS 67202

10-14s-19w Ellis KS

Job Ticket: 35513

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2009.10.17 @ 14:06:36

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.15 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100%	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

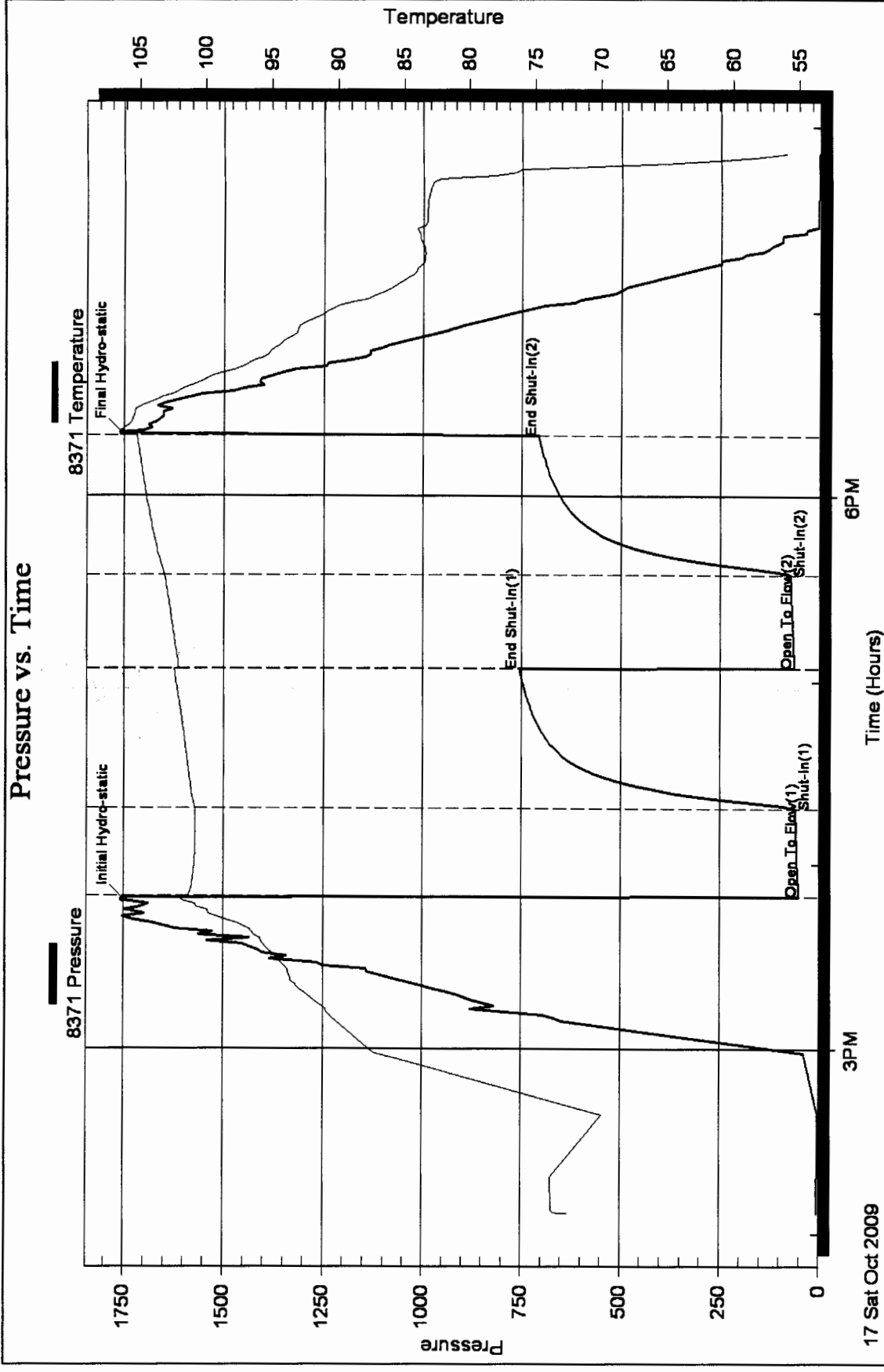
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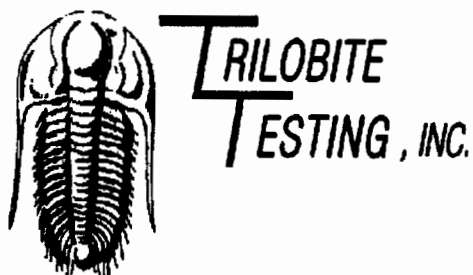
Inside

Murfin Drilling Co

10-14s-19w Ellis KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Paul Gunzelman

10-14s-19w Ellis KS

Kraus 1-10

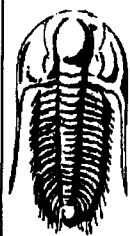
Start Date: 2009.10.18 @ 07:07:48

End Date: 2009.10.18 @ 12:43:48

Job Ticket #: 35514 DST #: 3

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DRILL STEM TEST REPORT

Murfin Drilling Co

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Paul Gunzelman

Kraus 1-10

10-14s-19w Ellis KS

Job Ticket: 35514

DST#: 3

Test Start: 2009.10.18 @ 07:07:48

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:42:48

Time Test Ended: 12:43:48

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: **3654.00 ft (KB) To 3720.00 ft (KB) (TVD)**

Total Depth: 3720.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2215.00 ft (KB)

2210.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8018 Inside

Press@RunDepth: 35.27 psig @ 3660.00 ft (KB)

Start Date: 2009.10.18

End Date:

2009.10.18

Start Time: 07:07:53

End Time:

12:43:47

Capacity: 8000.00 psig

Last Calib.: 2009.10.18

Time On Btrr: 2009.10.18 @ 08:41:48

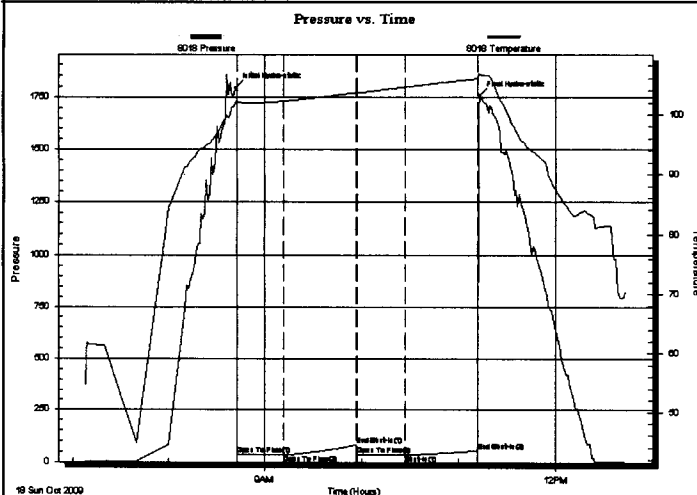
Time Off Btrr: 2009.10.18 @ 11:13:18

TEST COMMENT: IFP - 3/4" blow - died 22 min.

ISI - no blow back

FFP - no blow

FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1793.99	102.29	Initial Hydro-static
1	33.97	101.91	Open To Flow (1)
30	34.98	102.25	Open To Flow (2)
75	82.26	103.66	End Shut-In(1)
76	34.05	103.63	Open To Flow (3)
105	35.27	104.56	Shut-In(1)
150	54.78	105.91	End Shut-In(2)
152	1758.49	106.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100%	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

Kraus 1-10

250 N. Water Ste. 300
Wichita, KS 67202

10-14s-19w Ellis KS

Job Ticket: 35514

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2009.10.18 @ 07:07:48

Tool Information

Drill Pipe:	Length: 3530.00 ft	Diameter: 3.80 inches	Volume: 49.52 bbl	Tool Weight: 2500.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 66000.00 lb
			Total Volume: 50.12 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3654.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3637.00	
Hydraulic tool	5.00			3642.00	
Safety Joint	2.00			3644.00	
Packer	5.00			3649.00	22.00 Bottom Of Top Packer
Packer	5.00			3654.00	
Stubb	1.00			3655.00	
Perforations	4.00			3659.00	
Change Over Sub	1.00			3660.00	
Recorder	0.00	8018	Inside	3660.00	
Recorder	0.00	8371	Inside	3660.00	
Blank Spacing	31.00			3691.00	
Change Over Sub	1.00			3692.00	
Perforations	25.00			3717.00	
Bullnose	3.00			3720.00	66.00 Bottom Packers & Anchor

Total Tool Length: 88.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Kraus 1-10

250 N. Water Ste. 300
Wichita, KS 67202

10-14s-19w Ellis KS

Job Ticket: 35514

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2009.10.18 @ 07:07:48

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100%	0.015

Total Length:

3.00 ft

Total Volume:

0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

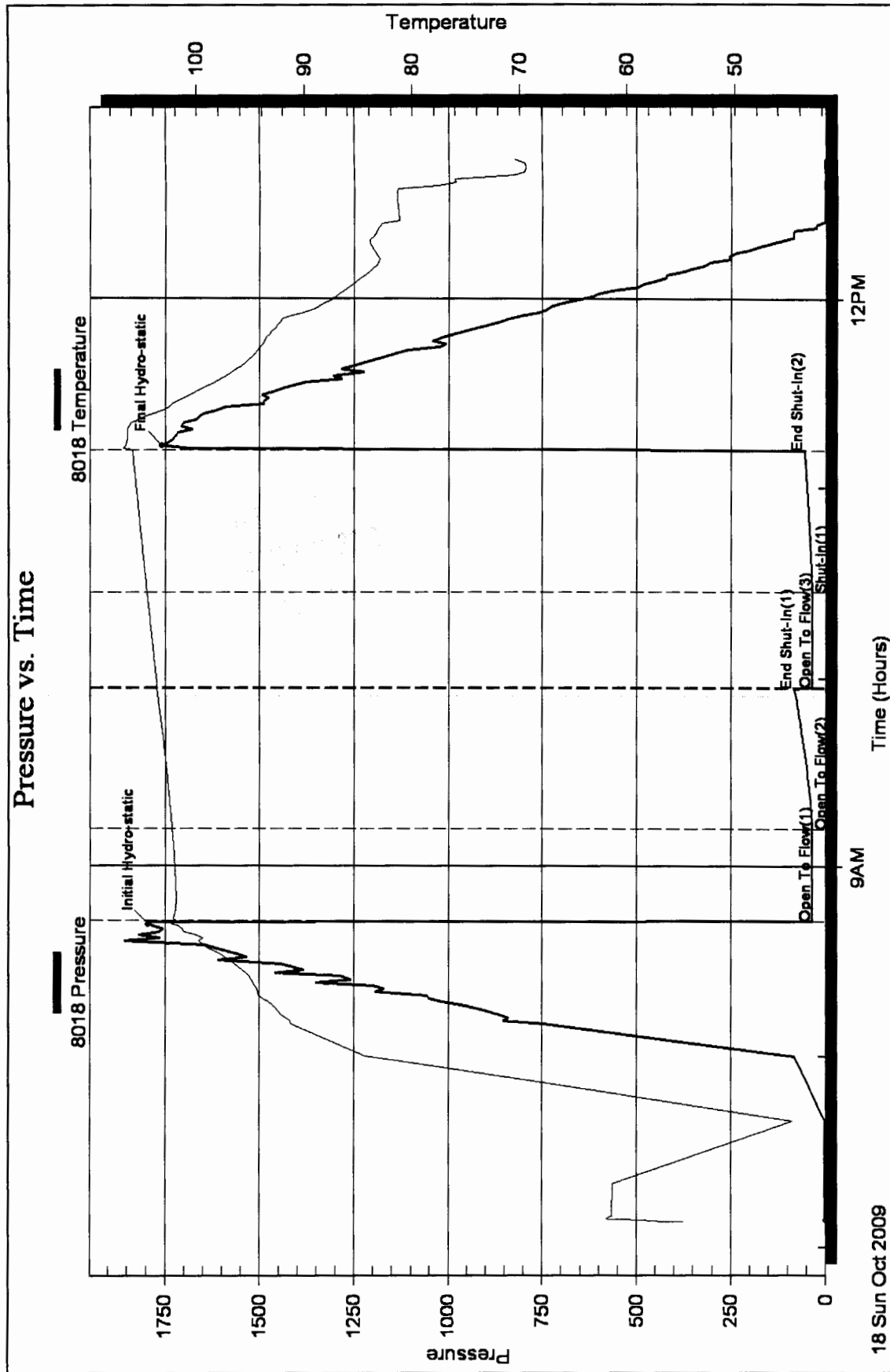
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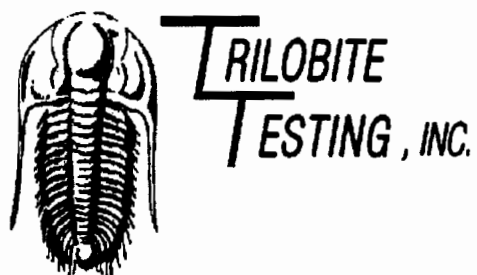
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Paul Gunzelman

10-14s-19w Ellis KS

Kraus 1-10

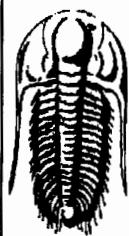
Start Date: 2009.10.18 @ 20:21:29

End Date: 2009.10.19 @ 02:08:53

Job Ticket #: 35515 DST #: 4

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DRILL STEM TEST REPORT

Murfin Drilling Co

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Paul Gunzelman

Kraus 1-10

10-14s-19w Ellis KS

Job Ticket: 35515

DST#: 4

Test Start: 2009.10.18 @ 20:21:29

GENERAL INFORMATION:

Formation: **LKC "K-L"**

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

Time Tool Opened: 22:11:24

Time Test Ended: 02:08:53

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **3719.00 ft (KB) To 3767.00 ft (KB) (TVD)**

Total Depth: **3767.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2215.00 ft (KB)**

2210.00 ft (CF)

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

Serial #: 8371 Inside

Press@RunDepth: **44.64 psig @ 3722.00 ft (KB)**

Start Date: **2009.10.18**

End Date:

2009.10.19

Start Time: **20:21:29**

End Time:

02:08:53

Capacity: **8000.00 psig**

Last Calib.: **2009.10.19**

Time On Btm: **2009.10.18 @ 22:10:24**

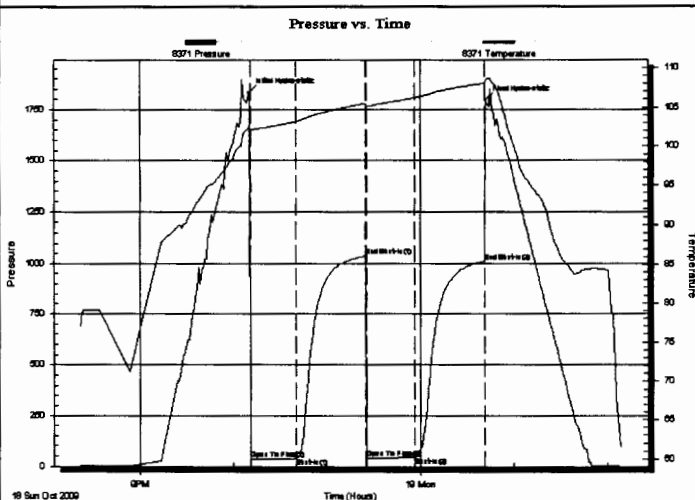
Time Off Btm: **2009.10.19 @ 00:41:53**

TEST COMMENT: **IFP - 1/4" blow - died 22 min.**

ISI - no blow back

FFP - no blow

FSI - no blow back



PRESSURE SUMMARY

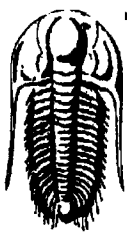
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1833.88	102.52	Initial Hydro-static
1	34.99	102.03	Open To Flow (1)
30	38.81	103.18	Shut-In(1)
75	1036.74	105.51	End Shut-In(1)
75	40.30	105.12	Open To Flow (2)
106	44.64	106.19	Shut-In(2)
151	1011.15	108.05	End Shut-In(2)
152	1796.66	108.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w / O spts. M100%	0.02

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

250 N. Water Ste. 300
Wichita, KS 67202

ATTN: Paul Gunzelman

Kraus 1-10

10-14s-19w Ellis KS

Job Ticket: 35515

DST#: 4

Test Start: 2009.10.18 @ 20:21:29

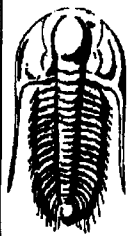
Tool Information

Drill Pipe:	Length: 3592.00 ft	Diameter: 3.80 inches	Volume: 50.39 bbl	Tool Weight: 2500.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 66000.00 lb
		Total Volume: 50.99 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3719.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 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
Shut In Tool	5.00			3702.00	
Hydraulic tool	5.00			3707.00	
Safety Joint	2.00			3709.00	
Packer	5.00			3714.00	22.00 Bottom Of Top Packer
Packer	5.00			3719.00	
Stubb	1.00			3720.00	
Perforations	1.00			3721.00	
Change Over Sub	1.00			3722.00	
Recorder	0.00	8018	Inside	3722.00	
Recorder	0.00	8371	Inside	3722.00	
Blank Spacing	31.00			3753.00	
Change Over Sub	1.00			3754.00	
Perforations	10.00			3764.00	
Bullnose	3.00			3767.00	48.00 Bottom Packers & Anchor

Total Tool Length: 70.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Kraus 1-10

250 N. Water Ste. 300
Wichita, KS 67202

10-14s-19w Ellis KS

Job Ticket: 35515

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2009.10.18 @ 20:21:29

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:

bbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud w/ O spts. M100%	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 #: 8371

Inside

Murfin Drilling Co

10-14s-19w Ellis KS

DST Test Number: 4

