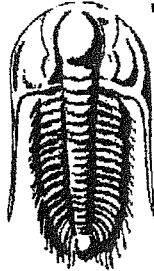


RECEIVED
KANSAS CORPORATION COMMISSION

MAR 12 2007

CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC.

KCC
MAR 19 2007
CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

25 14S 17W Ellis KS

Dinges #3-25

Start Date: 2007.02.14 @ 03:35:16

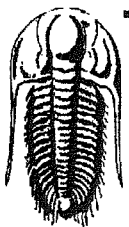
End Date: 2007.02.14 @ 12:46:16

Job Ticket #: 27614 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Dinges #3-25

25 14S 17W Ellis KS

Job Ticket: 27614

DST#: 1

Test Start: 2007.02.14 @ 03:35:16

GENERAL INFORMATION:

Formation: **Toronto-A -B-C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:21:16

Time Test Ended: 12:46:16

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3141.00 ft (KB) To 3246.00 ft (KB) (TVD)**

Total Depth: 3246.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1925.00 ft (KB)

1920.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press@RunDepth: 262.86 psig @ 3148.00 ft (KB)

Start Date: 2007.02.14

End Date:

2007.02.14

Start Time: 03:35:18

End Time:

12:46:16

Capacity: 7000.00 psig

Last Calib.: 2007.02.14

Time On Btm: 2007.02.14 @ 06:20:46

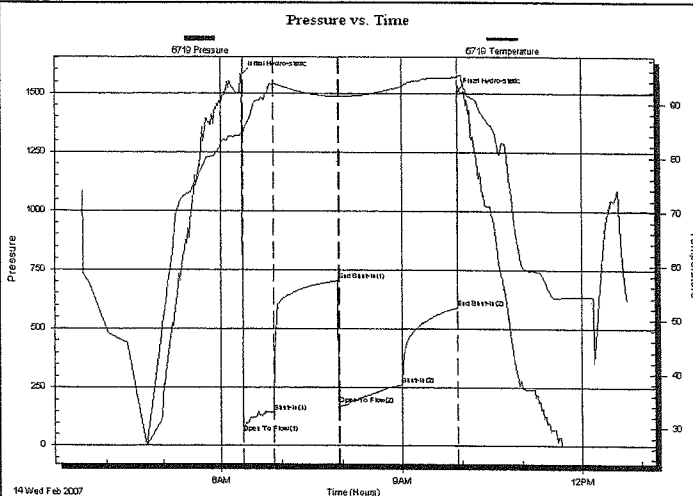
Time Off Btm: 2007.02.14 @ 09:55:01

TEST COMMENT: IFP Strong BOB in 4 Min.

ISI Dead

FFP Good Blow BOB in 6 Min.

FSI Dead



PRESSURE SUMMARY

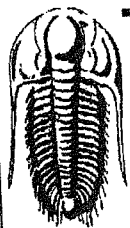
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1576.41	84.39	Initial Hydro-static
1	53.09	84.21	Open To Flow (1)
32	145.95	93.61	Shut-In(1)
95	704.38	91.33	End Shut-In(1)
96	179.12	91.28	Open To Flow (2)
159	262.86	93.17	Shut-In(2)
214	589.09	94.92	End Shut-In(2)
215	1505.36	95.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
510.00	VSOCMW 2%O 30%M 68%W	5.76

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 Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Dinges #3-25

25 14S 17W Ellis KS

Job Ticket: 27614

DST#: 1

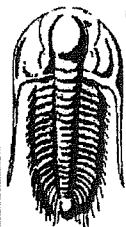
Test Start: 2007.02.14 @ 03:35:16

Tool Information

Drill Pipe:	Length: 2987.00 ft	Diameter: 3.80 inches	Volume: 41.90 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 32000.00 lb
		Total Volume:	42.65 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 27000.00 lb
Depth to Top Packer:	3141.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	105.00 ft			
Tool Length:	128.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3119.00	
Shut In Tool	5.00			3124.00	
Hydraulic tool	5.00			3129.00	
Safety Joint	2.00			3131.00	
Packer	5.00			3136.00	23.00 Bottom Of Top Packer
Packer	5.00			3141.00	
Stubb	1.00			3142.00	
Perforations	5.00			3147.00	
Change Over Sub	1.00			3148.00	
Recorder	0.00	6719	Inside	3148.00	
Blank Spacing	91.00			3239.00	
Change Over Sub	1.00			3240.00	
Perforations	3.00			3243.00	
Recorder	0.00	13221	Outside	3243.00	
Bullnose	3.00			3246.00	105.00 Bottom Packers & Anchor

Total Tool Length: 128.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Dinges #3-25

250 N Water Ste 300
Wichita KS 67202

25 14S 17W Ellis KS

Job Ticket: 27614

DST#: 1

ATTN: Brad Rine

Test Start: 2007.02.14 @ 03:35:16

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:

42000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
510.00	VSOCMMV 2%O 30%M 68%W	5.760

Total Length: 510.00 ft

Total Volume: 5.760 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

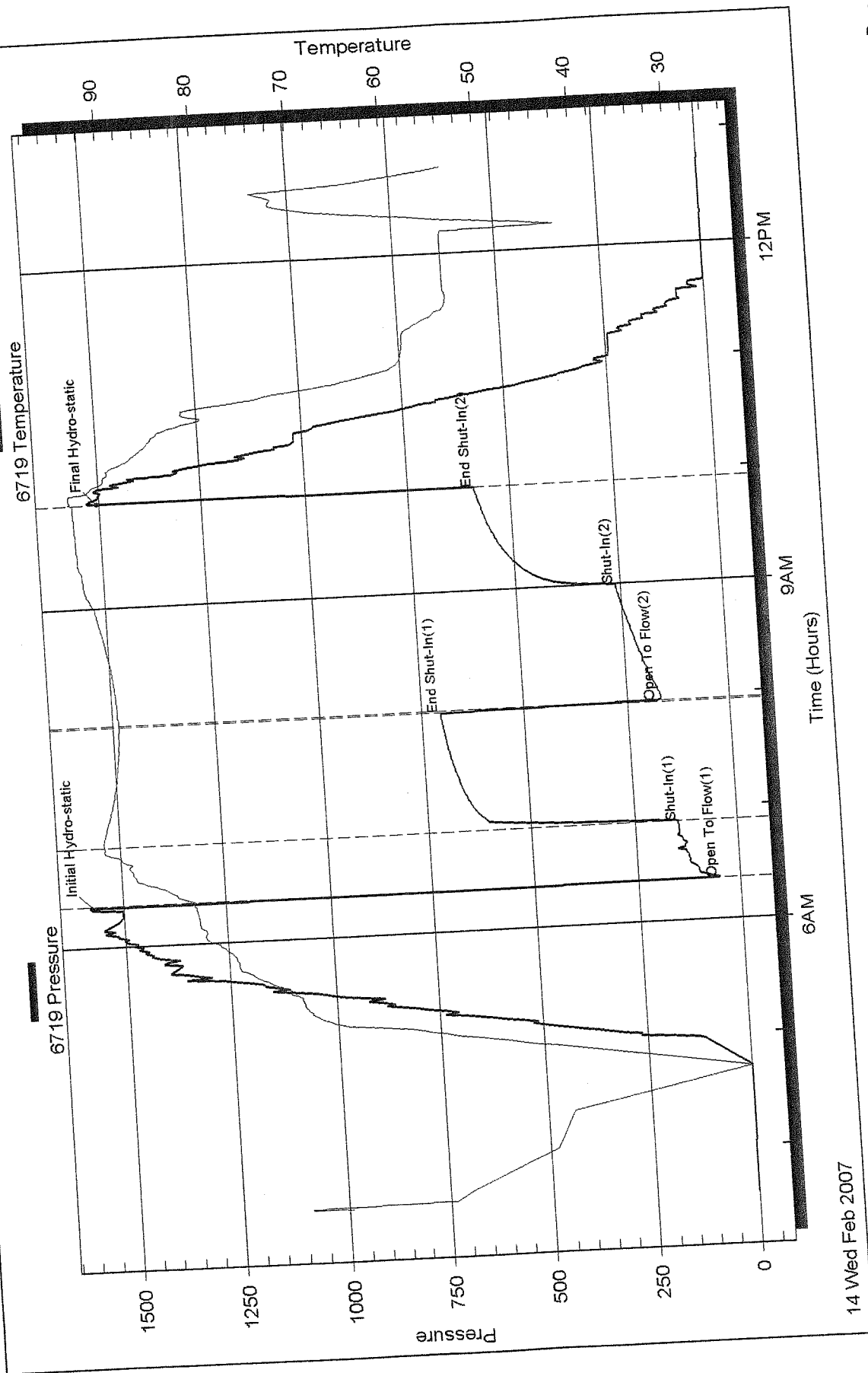
DST Test Number: 1

25 14S 17W Ellis KS

Inside Murfin Drilling Company Inc

Serial #: 6719

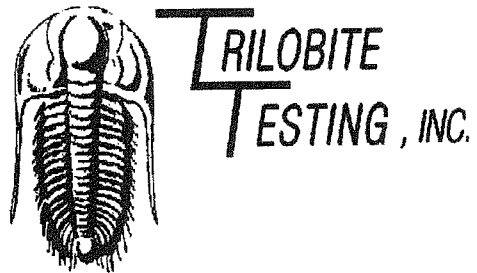
Pressure vs. Time



14 Wed Feb 2007

Ref. No: 27614

Trilobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

25 14S 17W Ellis KS

Dinges #3-25

Start Date: 2007.02.14 @ 22:23:37

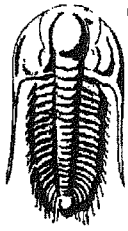
End Date: 2007.02.15 @ 06:55:22

Job Ticket #: 27615 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Dinges #3-25

25 14S 17W Ellis KS

Job Ticket: 27615

DST#: 2

Test Start: 2007.02.14 @ 22:23:37

GENERAL INFORMATION:

Formation: **LKC-"E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:38:37

Time Test Ended: 06:55:22

Interval: **3248.00 ft (KB) To 3277.00 ft (KB) (TVD)**

Total Depth: 3277.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Reference Elevations: 1925.00 ft (KB)

1920.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 36.52 psig @ 3254.00 ft (KB)

Start Date: 2007.02.14

End Date: 2007.02.15

Start Time: 22:23:39

End Time: 06:55:22

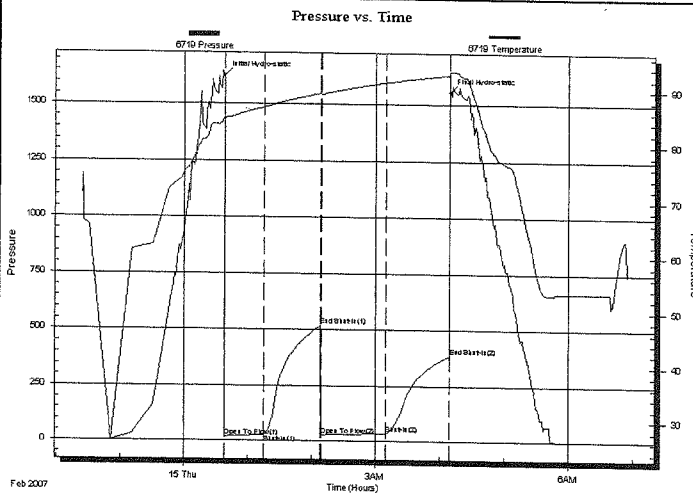
Capacity: 7000.00 psig

Last Calib.: 2007.02.15

Time On Btm: 2007.02.15 @ 00:38:22

Time Off Btm: 2007.02.15 @ 04:09:22

TEST COMMENT: IFP Weak Blow Built To 2 "
ISI Dead
FFP Weak Blow Built To 1 "
FSI Dead



PRESSURE SUMMARY

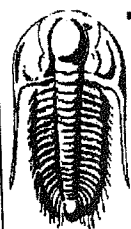
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1626.00	85.02	Initial Hydro-static
1	19.20	84.84	Open To Flow (1)
38	25.87	86.92	Shut-In(1)
90	519.22	89.45	End Shut-In(1)
91	28.66	89.36	Open To Flow (2)
152	36.52	91.47	Shut-In(2)
211	385.87	92.86	End Shut-In(2)
211	1557.09	93.35	Final Hydro-static

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 Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Dinges #3-25

25 14S 17W Ellis KS

Job Ticket: 27615

DST#: 2

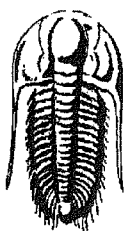
Test Start: 2007.02.14 @ 22:23:37

Tool Information

Drill Pipe:	Length: 3077.00 ft	Diameter: 3.80 inches	Volume: 43.16 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 30000.00 lb
		Total Volume: 43.91 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 28000.00 lb
Depth to Top Packer:	3248.00 ft			Final 28000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3226.00	
Shut In Tool	5.00			3231.00	
Hydraulic tool	5.00			3236.00	
Safety Joint	2.00			3238.00	
Packer	5.00			3243.00	23.00 Bottom Of Top Packer
Packer	5.00			3248.00	
Stubb	1.00			3249.00	
Perforations	5.00			3254.00	
Recorder	0.00	6719	Inside	3254.00	
Perforations	20.00			3274.00	
Recorder	0.00	13221	Outside	3274.00	
Bullnose	3.00			3277.00	29.00 Bottom Packers & Anchor

Total Tool Length: 52.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Dinges #3-25

250 N Water Ste 300
Wichita KS 67202

25 14S 17W Ellis KS

Job Ticket: 27615

DST#: 2

ATTN: Brad Rine

Test Start: 2007.02.14 @ 22:23:37

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8900.00 ppm

Filter Cake: 1.00 inches

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

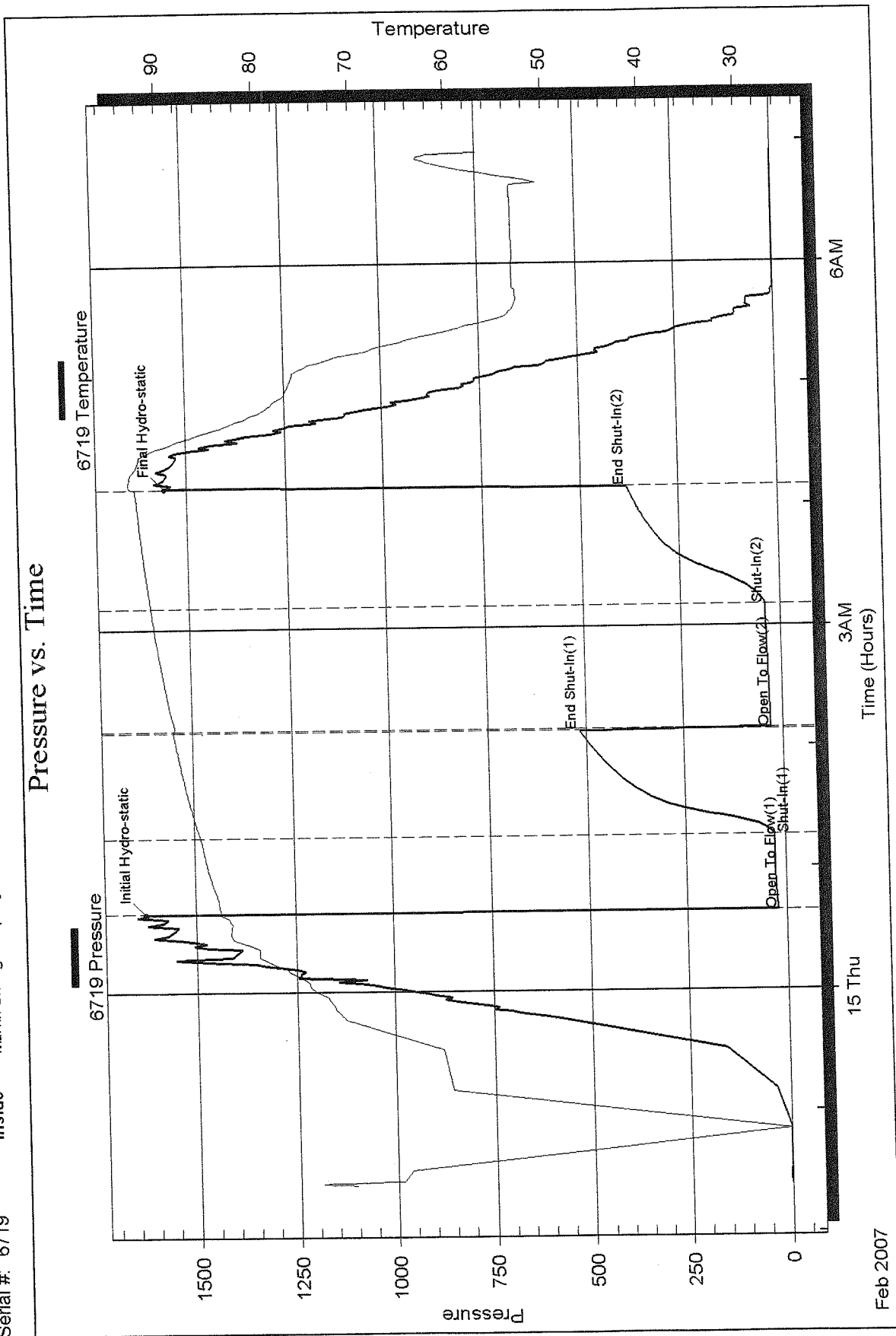
Serial #:

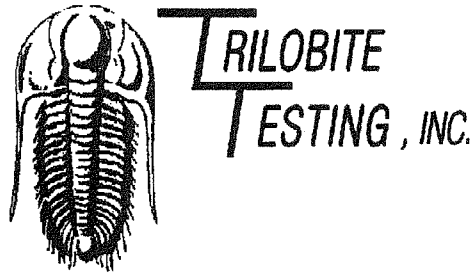
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

25 14S 17W Ellis KS

Dinges #3-25

Start Date: 2007.02.15 @ 23:14:52

End Date: 2007.02.16 @ 07:43:52

Job Ticket #: 27616 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Dinges #3-25

25 14S 17W Ellis KS

Job Ticket: 27616

DST#: 3

Test Start: 2007.02.15 @ 23:14:52

GENERAL INFORMATION:

Formation: **G-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:50:22

Time Test Ended: 07:43:52

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3279.00 ft (KB) To 3415.00 ft (KB) (TVD)

Total Depth: 3415.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1925.00 ft (KB)

1920.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 46.39 psig @ 3286.00 ft (KB)

Start Date: 2007.02.15

End Date:

2007.02.16

Start Time: 23:14:54

End Time:

07:43:52

Capacity: 7000.00 psig

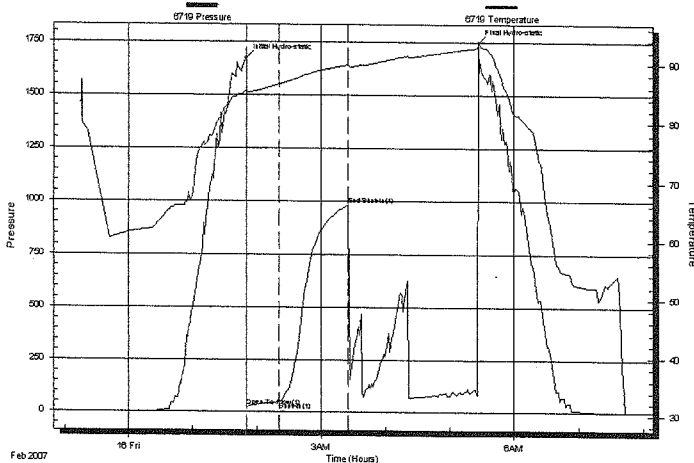
Last Calib.: 2007.02.16

Time On Btm: 2007.02.16 @ 01:49:52

Time Off Btm: 2007.02.16 @ 05:26:52

TEST COMMENT: IFP Fair Blow Built to 6 "
ISI Blow back Built to 1/2 "
FFP Weak Blow Built to 2 "
FSI Weak Surface Blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1670.85	85.44	Initial Hydro-static
1	24.20	85.23	Open To Flow (1)
31	46.39	86.58	Shut-In (1)
96	982.39	89.89	End Shut-In (1)
217	1744.65	93.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Oil Spotted Mud	0.10
60.00	GOCM 20%G 20%O 60%M	0.30
60.00	SGHOCM 10%G 35%O 55%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 Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Dinges #3-25

25 14S 17W Ellis KS

Job Ticket: 27616

DST#: 3

Test Start: 2007.02.15 @ 23:14:52

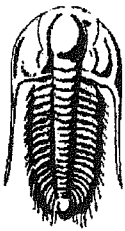
Tool Information

Drill Pipe:	Length: 3108.00 ft	Diameter: 3.80 inches	Volume: 43.60 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 30000.00 lb
		Total Volume:	44.35 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 28000.00 lb
Depth to Top Packer:	3279.00 ft			Final 28000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	136.00 ft			
Tool Length:	159.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3257.00	
Shut In Tool	5.00			3262.00	
Hydraulic tool	5.00			3267.00	
Safety Joint	2.00			3269.00	
Packer	5.00			3274.00	23.00 Bottom Of Top Packer
Packer	5.00			3279.00	
Stubb	1.00			3280.00	
Perforations	5.00			3285.00	
Change Over Sub	1.00			3286.00	
Recorder	0.00	6719	Inside	3286.00	
Blank Spacing	93.00			3379.00	
Change Over Sub	1.00			3380.00	
Perforations	32.00			3412.00	
Recorder	0.00	13221	Outside	3412.00	
Bullnose	3.00			3415.00	136.00 Bottom Packers & Anchor

Total Tool Length: 159.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Dinges #3-25

250 N Water Ste 300
Wichita KS 67202

25 14S 17W Ellis KS

Job Ticket: 27616

DST#: 3

ATTN: Brad Rine

Test Start: 2007.02.15 @ 23:14:52

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Oil Spotted Mud	0.098
60.00	GOCM 20%G 20%O 60%M	0.295
60.00	SGHOCM 10%G 35%O 55%M	0.295

Total Length: 140.00 ft

Total Volume: 0.688 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 3

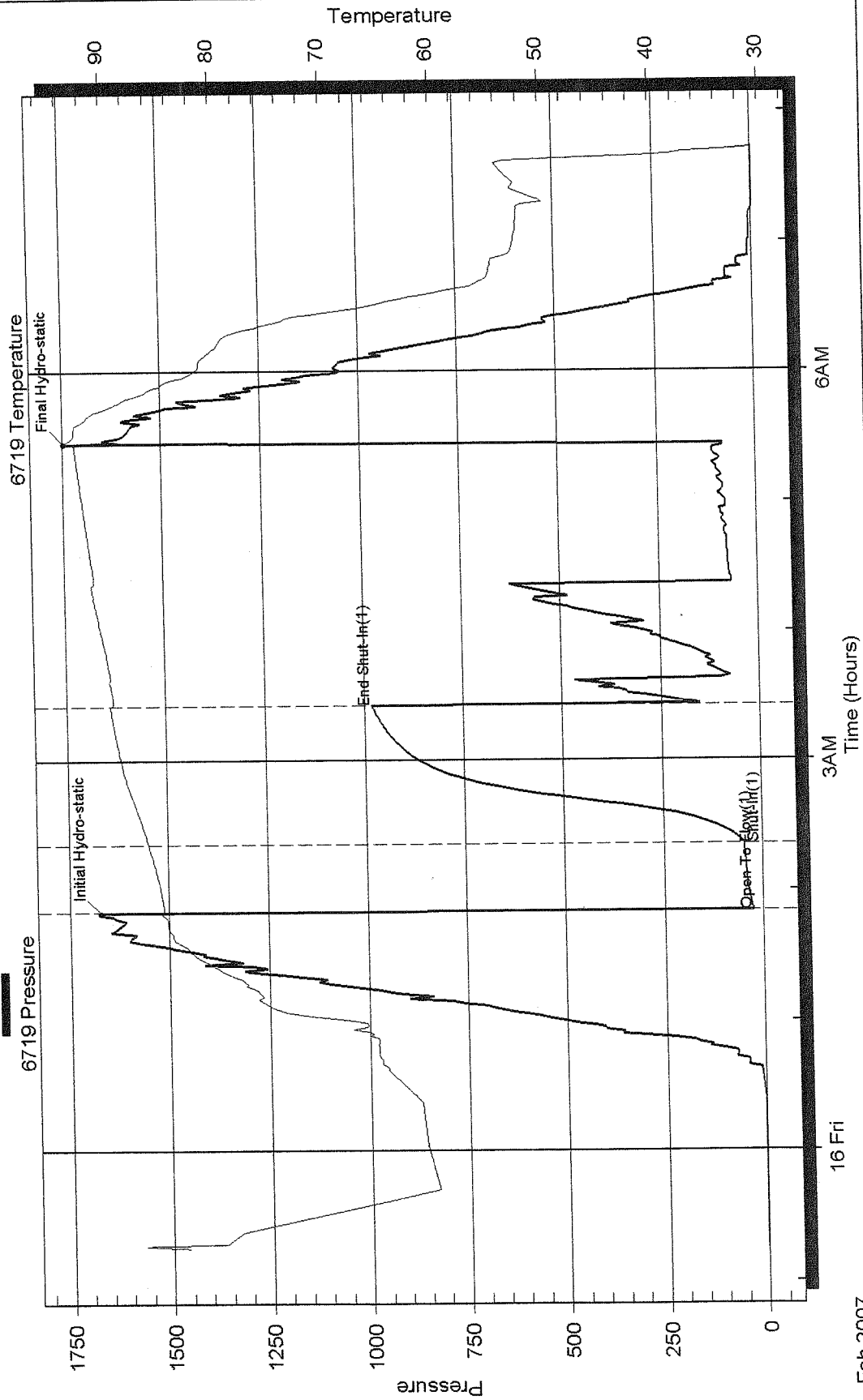
25 14S 17W Ellis KS

Murfin Drilling Company Inc

Inside

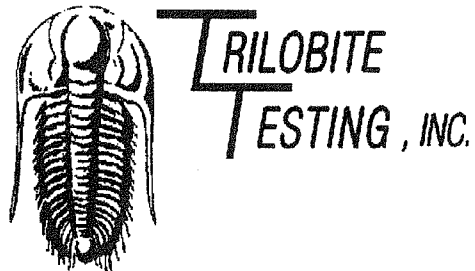
Serial #: 6719

Pressure vs. Time



Ref. No: 27616

Trilobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

25 14S 17W Ellis KS

Dinges #3-25

Start Date: 2007.02.16 @ 18:40:46

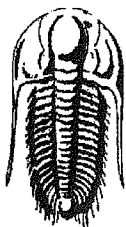
End Date: 2007.02.17 @ 01:50:31

Job Ticket #: 27617 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Dinges #3-25

25 14S 17W Ellis KS

Job Ticket: 27617

DST#: 4

Test Start: 2007.02.16 @ 18:40:46

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:29:31

Time Test Ended: 01:50:31

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3413.00 ft (KB) To 3453.00 ft (KB) (TVD)

Total Depth: 3453.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1925.00 ft (KB)

1920.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 26.44 psig @ 3419.00 ft (KB)

Start Date: 2007.02.16

End Date:

2007.02.17

Start Time: 18:40:48

End Time:

01:50:31

Capacity: 7000.00 psig

Last Calib.: 2007.02.17

Time On Btm: 2007.02.16 @ 20:29:16

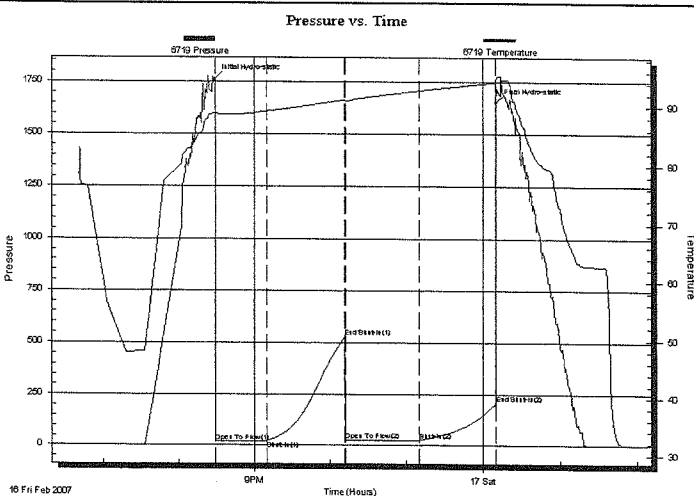
Time Off Btm: 2007.02.17 @ 00:10:16

TEST COMMENT: IFP Weak Blow Built to 1"

ISI Dead

FFP Dead

FSI Dead



PRESSURE SUMMARY

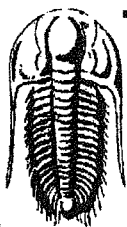
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.74	88.98	Initial Hydro-static
1	17.60	88.75	Open To Flow (1)
42	21.66	89.30	Shut-In (1)
102	528.21	91.24	End Shut-In (1)
103	25.01	91.07	Open To Flow (2)
161	26.44	92.84	Shut-In (2)
221	208.97	94.26	End Shut-In (2)
221	1653.60	94.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 10%O 90%M	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 Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Dinges #3-25

25 14S 17W Ellis KS

Job Ticket: 27617

DST#: 4

Test Start: 2007.02.16 @ 18:40:46

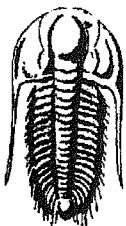
Tool Information

Drill Pipe:	Length: 3263.00 ft	Diameter: 3.80 inches	Volume: 45.77 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose:	32000.00 lb
		Total Volume:	46.52 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	28000.00 lb
Depth to Top Packer:	3413.00 ft			Final	28000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	63.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3391.00	
Shut In Tool	5.00			3396.00	
Hydraulic tool	5.00			3401.00	
Safety Joint	2.00			3403.00	
Packer	5.00			3408.00	23.00 Bottom Of Top Packer
Packer	5.00			3413.00	
Stubb	1.00			3414.00	
Perforations	5.00			3419.00	
Recorder	0.00	6719	Inside	3419.00	
Perforations	31.00			3450.00	
Recorder	0.00	13221	Outside	3450.00	
Bullnose	3.00			3453.00	40.00 Bottom Packers & Anchor

Total Tool Length: 63.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Dinges #3-25

250 N Water Ste 300
Wichita KS 67202

25 14S 17W Ellis KS

Job Ticket: 27617

DST#: 4

ATTN: Brad Rine

Test Start: 2007.02.16 @ 18:40:46

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 10800.00 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

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SOCM 10%O 90%M	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:

DST Test Number: 4

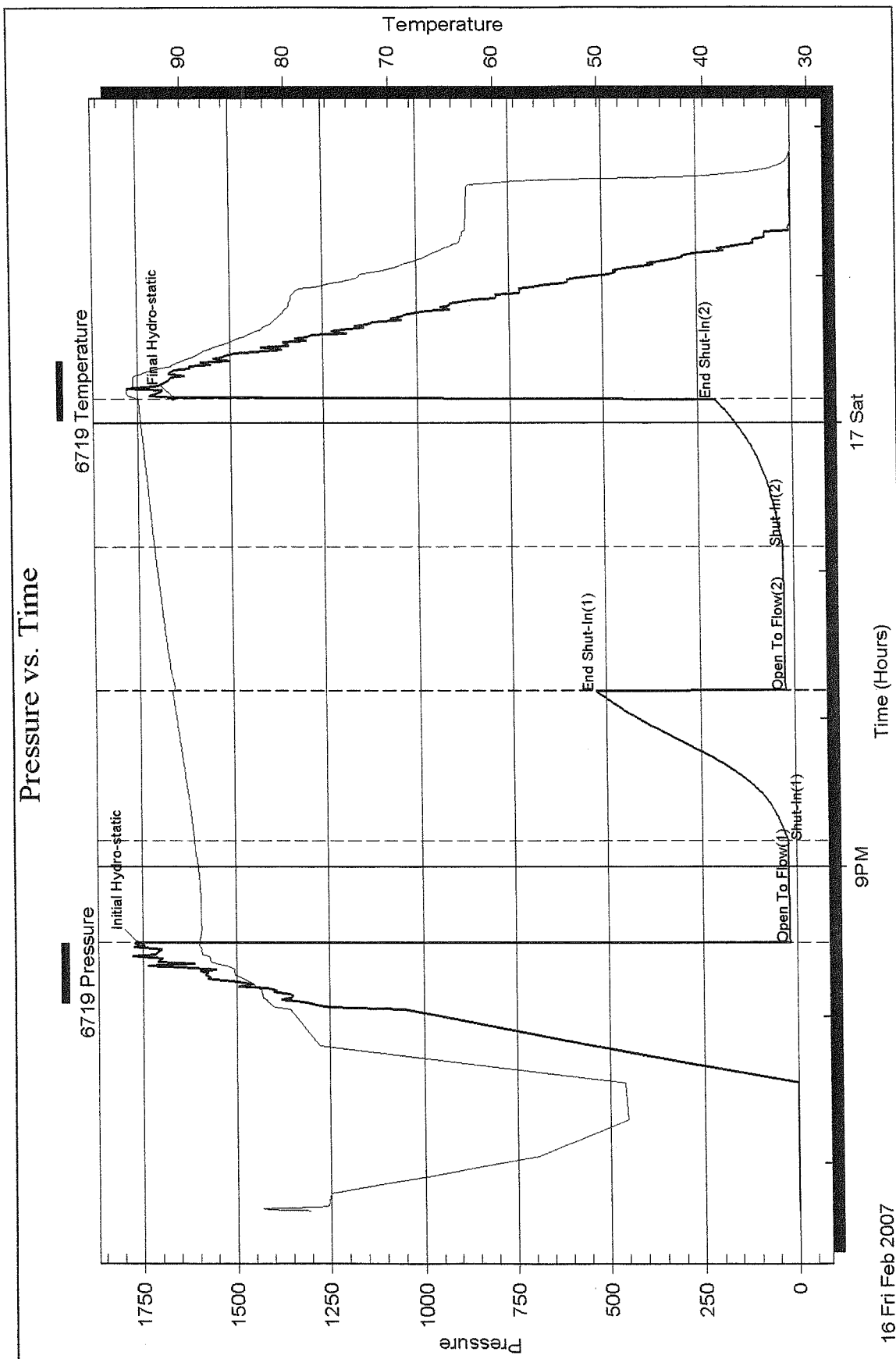
25 14S 17W Ellis KS

Murfin Drilling Company Inc

Inside

Serial #: 6719

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

25 14S 17W Ellis KS

Dinges #3-25

Start Date: 2007.02.17 @ 09:40:31

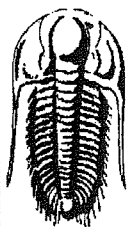
End Date: 2007.02.17 @ 16:41:16

Job Ticket #: 27618 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Dinges #3-25

25 14S 17W Ellis KS

Job Ticket: 27618

DST#: 5

Test Start: 2007.02.17 @ 09:40:31

GENERAL INFORMATION:

Formation: **Arb**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:44:31

Time Test Ended: 16:41:16

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 32

Interval: 3453.00 ft (KB) To 3463.00 ft (KB) (TVD)

Total Depth: 3463.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1925.00 ft (KB)

1920.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 19.57 psig @ 3454.00 ft (KB)

Start Date: 2007.02.17

End Date: 2007.02.17

Start Time: 09:40:33

End Time: 16:41:16

Capacity: 7000.00 psig

Last Calib.: 2007.02.17

Time On Btm: 2007.02.17 @ 11:44:16

Time Off Btm: 2007.02.17 @ 14:47:16

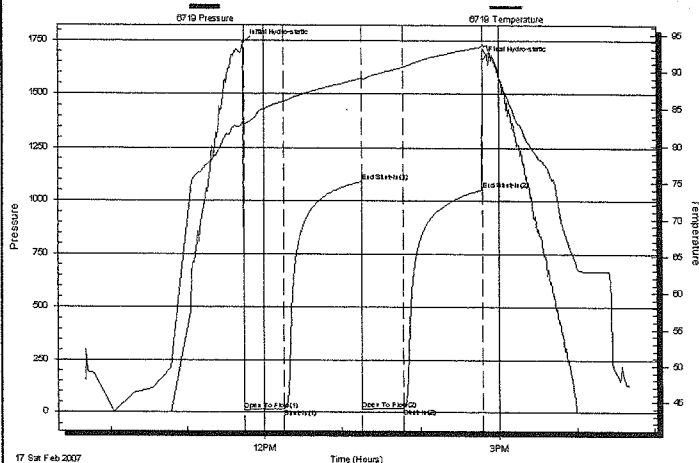
TEST COMMENT: IF Weak surface blow died 15m

ISI Dead

FF Dead

FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

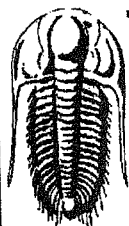
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1736.92	83.34	Initial Hydro-static
1	11.80	83.01	Open To Flow (1)
32	15.19	85.98	Shut-In (1)
91	1092.44	89.09	End Shut-In (1)
92	16.37	88.94	Open To Flow (2)
123	19.57	90.55	Shut-In (2)
183	1054.38	93.38	End Shut-In (2)
183	1661.91	93.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	OSDM .5%O 99.5%DM	0.04

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 Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Dinges #3-25

25 14S 17W Ellis KS

Job Ticket: 27618

DST#: 5

Test Start: 2007.02.17 @ 09:40:31

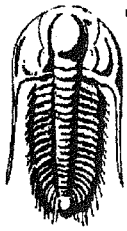
Tool Information

Drill Pipe:	Length: 3295.00 ft	Diameter: 3.80 inches	Volume: 46.22 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose:	30000.00 lb
		Total Volume:	46.97 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	29000.00 lb
Depth to Top Packer:	3453.00 ft			Final	29000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	33.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3431.00	
Shut In Tool	5.00			3436.00	
Hydraulic tool	5.00			3441.00	
Safety Joint	2.00			3443.00	
Packer	5.00			3448.00	23.00 Bottom Of Top Packer
Packer	5.00			3453.00	
Stubb	1.00			3454.00	
Recorder	0.00	6719	Inside	3454.00	
Perforations	6.00			3460.00	
Recorder	0.00	13221	Outside	3460.00	
Bullnose	3.00			3463.00	10.00 Bottom Packers & Anchor

Total Tool Length: 33.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Dinges #3-25

250 N Water Ste 300
Wichita KS 67202

25 14S 17W Ellis KS

Job Ticket: 27618

DST#: 5

ATTN: Brad Rine

Test Start: 2007.02.17 @ 09:40:31

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	OSDM .5%O 99.5%DM	0.039

Total Length: 8.00 ft

Total Volume: 0.039 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

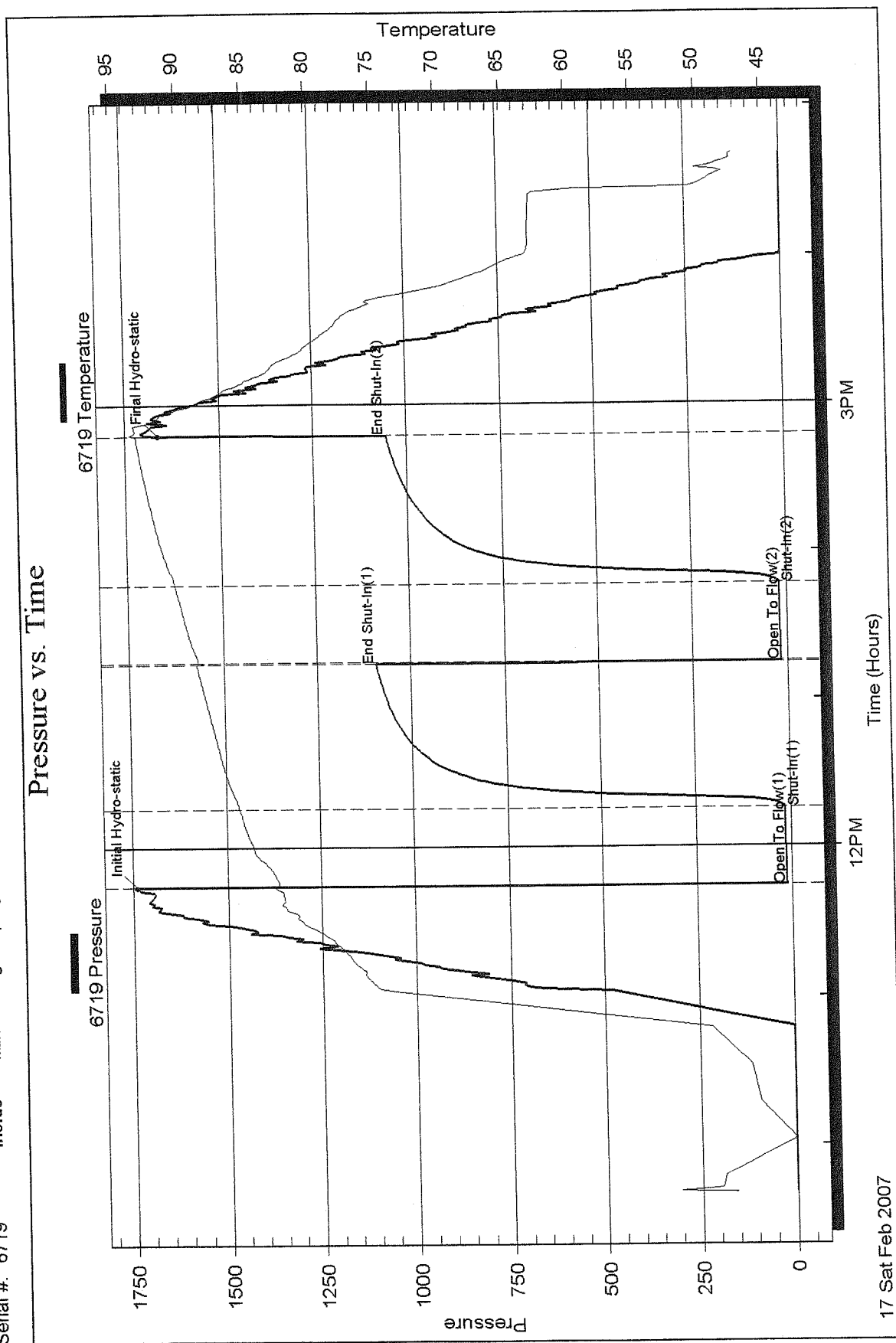
Serial #:

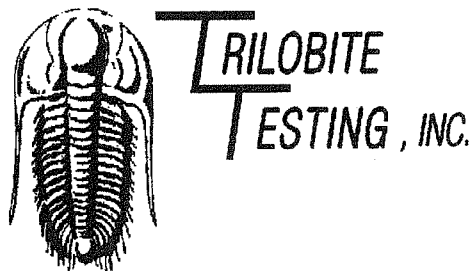
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

25 14S 17W Ellis KS

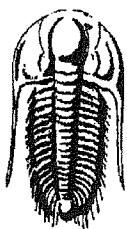
Dinges #3-25

Start Date: 2007.02.18 @ 00:50:15

End Date: 2007.02.18 @ 08:02:00

Job Ticket #: 27619 DST #: 6

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Dinges #3-25

25 14S 17W Ellis KS

Job Ticket: 27619

DST#: 6

Test Start: 2007.02.18 @ 00:50:15

GENERAL INFORMATION:

Formation: **ARB**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:10:15

Time Test Ended: 08:02:00

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 32

Interval: **3463.00 ft (KB) To 3483.00 ft (KB) (TVD)**

Total Depth: 3483.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1925.00 ft (KB)

1920.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press@RunDepth: 120.12 psig @ 3464.00 ft (KB)

Start Date: 2007.02.18

End Date:

2007.02.18

Start Time: 00:50:17

End Time:

08:02:00

Capacity: 7000.00 psig

Last Calib.: 2007.02.18

Time On Btm: 2007.02.18 @ 03:10:00

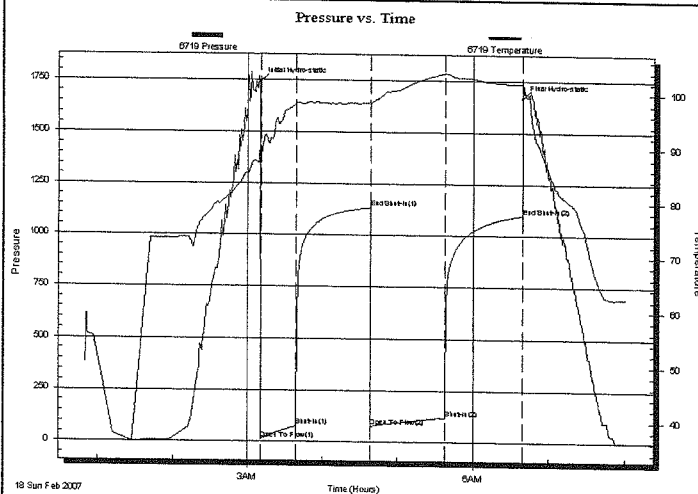
Time Off Btm: 2007.02.18 @ 06:39:15

TEST COMMENT: IF Blow Built to 7 "

ISI Dead

FF B of B 47 m

FSI Dead



PRESSURE SUMMARY

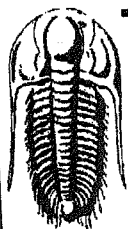
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1742.66	89.66	Initial Hydro-static
1	13.52	88.75	Open To Flow (1)
29	74.89	97.98	Shut-In(1)
89	1132.92	98.42	End Shut-In(1)
89	76.55	98.26	Open To Flow (2)
149	120.12	103.80	Shut-In(2)
209	1097.44	102.02	End Shut-In(2)
210	1667.45	102.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	MCSW 40%M 60%SW	0.15
160.00	SW 28000 Ch	1.12

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 Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Dinges #3-25

25 14S 17W Ellis KS

Job Ticket: 27619

DST#: 6

Test Start: 2007.02.18 @ 00:50:15

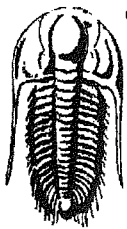
Tool Information

Drill Pipe:	Length: 3296.00 ft	Diameter: 3.80 inches	Volume: 46.23 bbl
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl
Drill Collar:	Length: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl
			Total Volume: 46.98 bbl

Tool Weight:	2200.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	31000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	30000.00 lb
Final	31000.00 lb

Drill Pipe Above KB: 7.00 ft
Depth to Top Packer: 3463.00 ft
Depth to Bottom Packer: ft
Interval between Packers: 20.00 ft
Tool Length: 41.00 ft
Number of Packers: 2 Diameter: 6.75 inches
Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3443.00	
Shut In Tool	5.00			3448.00	
Hydraulic tool	5.00			3453.00	
Packer	5.00			3458.00	21.00 Bottom Of Top Packer
Packer	5.00			3463.00	
Stubb	1.00			3464.00	
Recorder	0.00	6719	Inside	3464.00	
Perforations	16.00			3480.00	
Recorder	0.00	13221	Outside	3480.00	
Bullnose	3.00			3483.00	20.00 Bottom Packers & Anchor
Total Tool Length:		41.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Dinges #3-25

250 N Water Ste 300
Wichita KS 67202

25 14S 17W Ellis KS

Job Ticket: 27619

DST#: 6

ATTN: Brad Rine

Test Start: 2007.02.18 @ 00:50:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.58 in³

Resistivity: ohm.m

Salinity: 7400.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MCSW 40%M 60%SW	0.148
160.00	SW 28000 Ch	1.124

Total Length: 190.00 ft

Total Volume: 1.272 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

