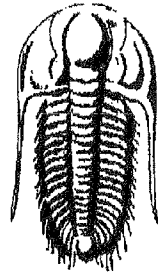


15-051-25603

30-14s-16w

285



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

30 14S 16E Ellis KS

Brungardt #1-30

Start Date: 2007.01.31 @ 15:00:23

End Date: 2007.01.31 @ 22:31:38

Job Ticket #: 27608

DST #: 1

KCC
MAY 11 2007
CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

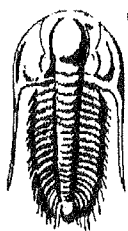
MAY 14 2007

CONSERVATION DIVISION
WICHITA, KS

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

Brungardt #1-30

30 14S 16E Ellis KS

Job Ticket: 27608

DST#: 1

Test Start: 2007.01.31 @ 15:00:23

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:08:08

Time Test Ended: 22:31:38

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3148.00 ft (KB) To 3254.00 ft (KB) (TVD)

Total Depth: 3254.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1934.00 ft (KB)

1929.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 46.51 psig @ 3153.00 ft (KB)

Start Date: 2007.01.31

End Date:

2007.01.31

Capacity: 7000.00 psig

Last Calib.: 2007.01.31

Start Time: 15:00:25

End Time:

22:31:38

Time On Btm: 2007.01.31 @ 17:07:53

Time Off Btm: 2007.01.31 @ 20:41:38

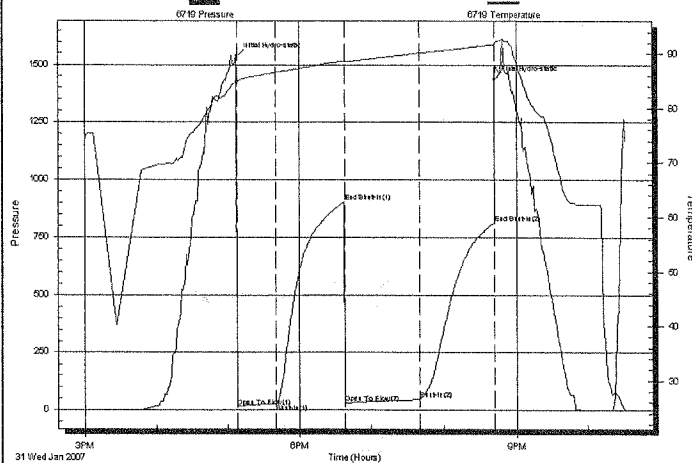
TEST COMMENT: IFP Weak Blow Built to 2-1/4 "

ISI Dead

FFP Weak Surface Blow Building to 1/4 "

FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

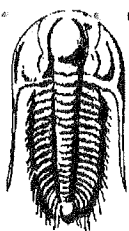
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1535.82	85.10	Initial Hydro-static
1	15.79	84.40	Open To Flow (1)
33	28.25	86.61	Shut-In(1)
90	904.12	88.70	End Shut-In(1)
91	31.14	88.58	Open To Flow (2)
152	46.51	90.16	Shut-In(2)
214	813.60	91.70	End Shut-In(2)
214	1437.05	91.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Drilling Mud	0.32

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

Brungardt #1-30

30 14S 16E Ellis KS

Job Ticket: 27608

DST#: 1

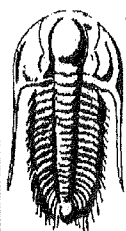
Test Start: 2007.01.31 @ 15:00:23

Tool Information

Drill Pipe:	Length: 2985.00 ft	Diameter: 3.80 inches	Volume: 41.87 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: 25000.00 lb
Drill Collar:	Length: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 32000.00 lb
			Total Volume: 42.62 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3148.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	106.00 ft			
Tool Length:	127.00 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			3128.00	
Shut In Tool	5.00			3133.00	
Hydraulic tool	5.00			3138.00	
Packer	5.00			3143.00	21.00 Bottom Of Top Packer
Packer	5.00			3148.00	
Stubb	1.00			3149.00	
Perforations	3.00			3152.00	
Change Over Sub	1.00			3153.00	
Recorder	0.00	6719	Inside	3153.00	
Blank Spacing	93.00			3246.00	
Change Over Sub	1.00			3247.00	
Perforations	4.00			3251.00	
Recorder	0.00	13221	Outside	3251.00	
Bullnose	3.00			3254.00	106.00 Bottom Packers & Anchor
Total Tool Length:		127.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Brungardt #1-30

250 N Water Ste 300
Wichita KS 67202

30 14S 16E Ellis KS

Job Ticket: 27608

DST#: 1

ATTN: Brad Rine

Test Start: 2007.01.31 @ 15:00:23

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: 6.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Drilling Mud	0.320

Total Length: 65.00 ft

Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

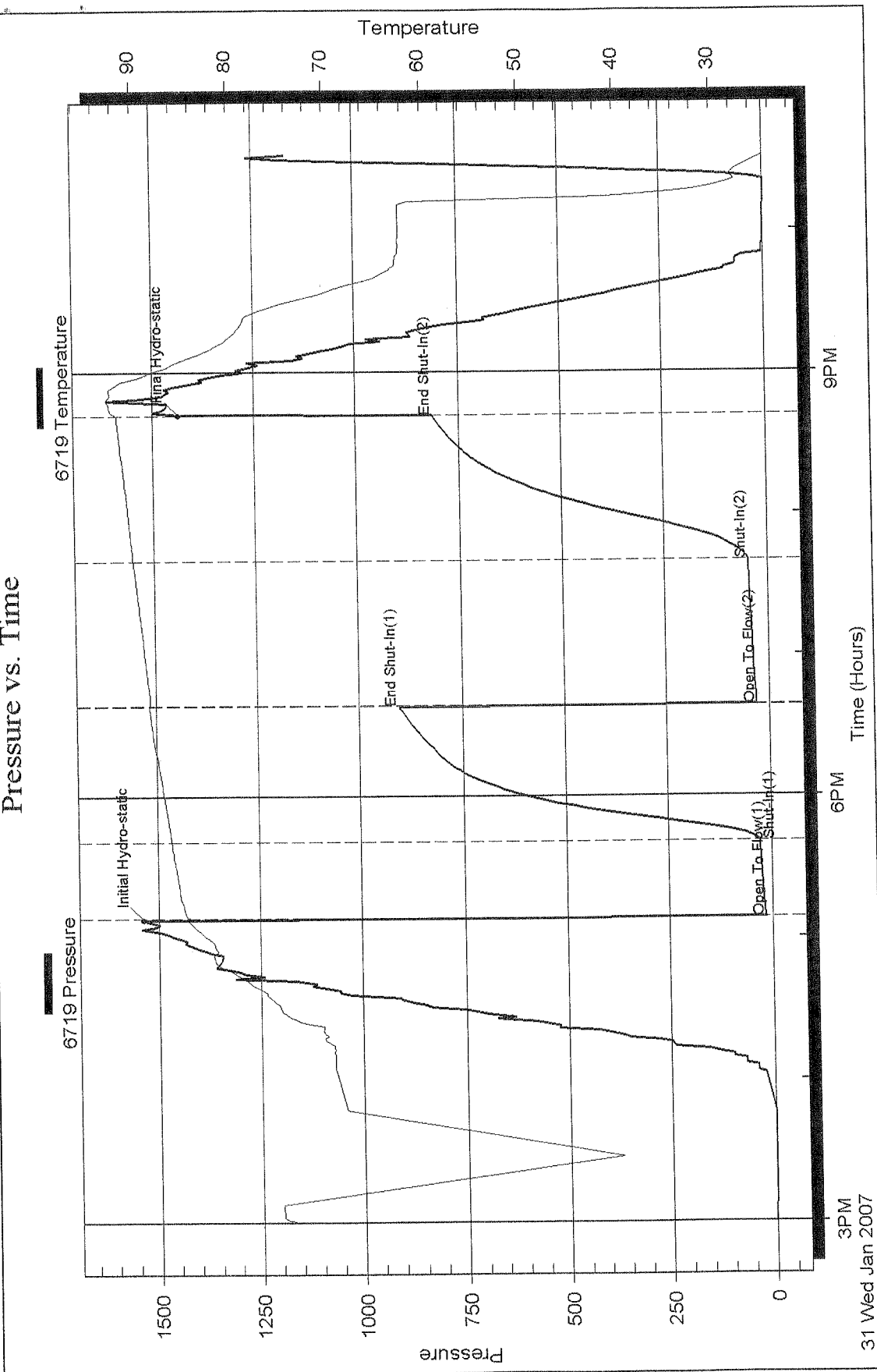
Serial #:

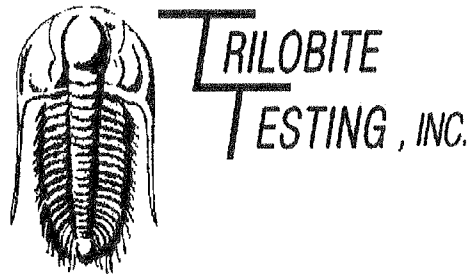
Laboratory Name:

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

30 14S 16E Ellis KS

Brungardt #1-30

Start Date: 2007.02.01 @ 09:12:51

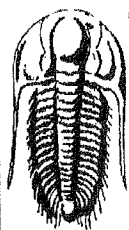
End Date: 2007.02.01 @ 16:26:06

Job Ticket #: 27609 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

Brungardt #1-30

30 14S 16E Ellis KS

Job Ticket: 27609

DST#: 2

Test Start: 2007.02.01 @ 09:12:51

GENERAL INFORMATION:

Formation: **LKC-E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:14:06

Time Test Ended: 16:26:06

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 3259.00 ft (KB) To 3290.00 ft (KB) (TVD)

Total Depth: 3290.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1934.00 ft (KB)

1929.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 74.94 psig @ 3263.00 ft (KB)

Start Date: 2007.02.01

End Date:

2007.02.01

Start Time: 09:12:53

End Time:

16:26:06

Capacity: 7000.00 psig

Last Calib.: 2007.02.01

Time On Btm: 2007.02.01 @ 11:13:51

Time Off Btm: 2007.02.01 @ 14:42:51

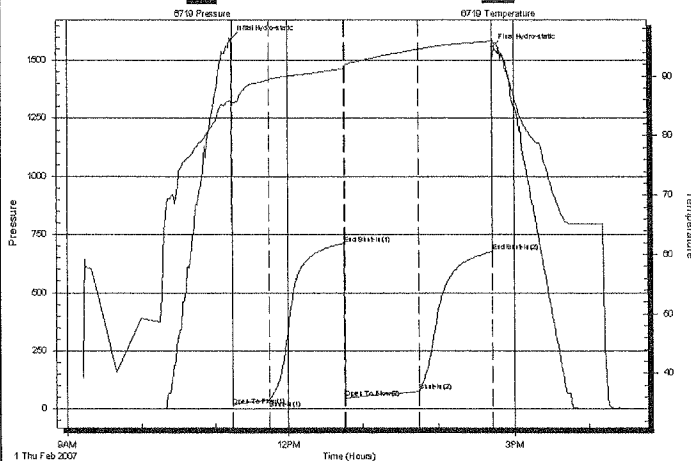
TEST COMMENT: IFP Fair Blow Built to 6-1/2 "

ISI Dead

FFP Good Blow BOB in 22 Min.

FSI Surface Blow back for 20 Min.

Pressure vs. Time



PRESSURE SUMMARY

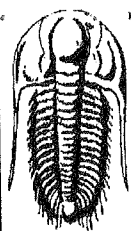
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1590.73	85.71	Initial Hydro-static
1	15.52	85.47	Open To Flow (1)
31	39.27	89.41	Shut-In (1)
92	711.72	91.30	End Shut-In (1)
93	46.43	91.58	Open To Flow (2)
151	74.94	94.59	Shut-In (2)
209	676.49	95.93	End Shut-In (2)
209	1555.80	96.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCWM 20%O 10%W 70%M	0.15
120.00	SGHOCM 5%G 35%O 60%M	0.59

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Brungardt #1-30

30 14S 16E Ellis KS

Job Ticket: 27609

DST#: 2

Test Start: 2007.02.01 @ 09:12:51

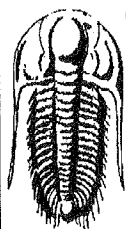
Tool Information

Drill Pipe:	Length: 3109.00 ft	Diameter: 3.80 inches	Volume: 43.61 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: 25000.00 lb
Drill Collar:	Length: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 35000.00 lb
		Total Volume:	44.36 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3259.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 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			3239.00	
Shut In Tool	5.00			3244.00	
Hydraulic tool	5.00			3249.00	
Packer	5.00			3254.00	21.00 Bottom Of Top Packer
Packer	5.00			3259.00	
Stubb	1.00			3260.00	
Perforations	3.00			3263.00	
Recorder	0.00	6719	Inside	3263.00	
Perforations	24.00			3287.00	
Recorder	0.00	13221	Outside	3287.00	
Bullnose	3.00			3290.00	31.00 Bottom Packers & Anchor

Total Tool Length: 52.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Brungardt #1-30

250 N Water Ste 300
Wichita KS 67202

30 14S 16E Ellis KS

Job Ticket: 27609

DST#: 2

ATTN: Brad Rine

Test Start: 2007.02.01 @ 09:12:51

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:

29000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCWM 20%O 10%W 70%M	0.148
120.00	SGHOCM 5%G 35%O 60%M	0.590

Total Length: 150.00 ft

Total Volume: 0.738 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

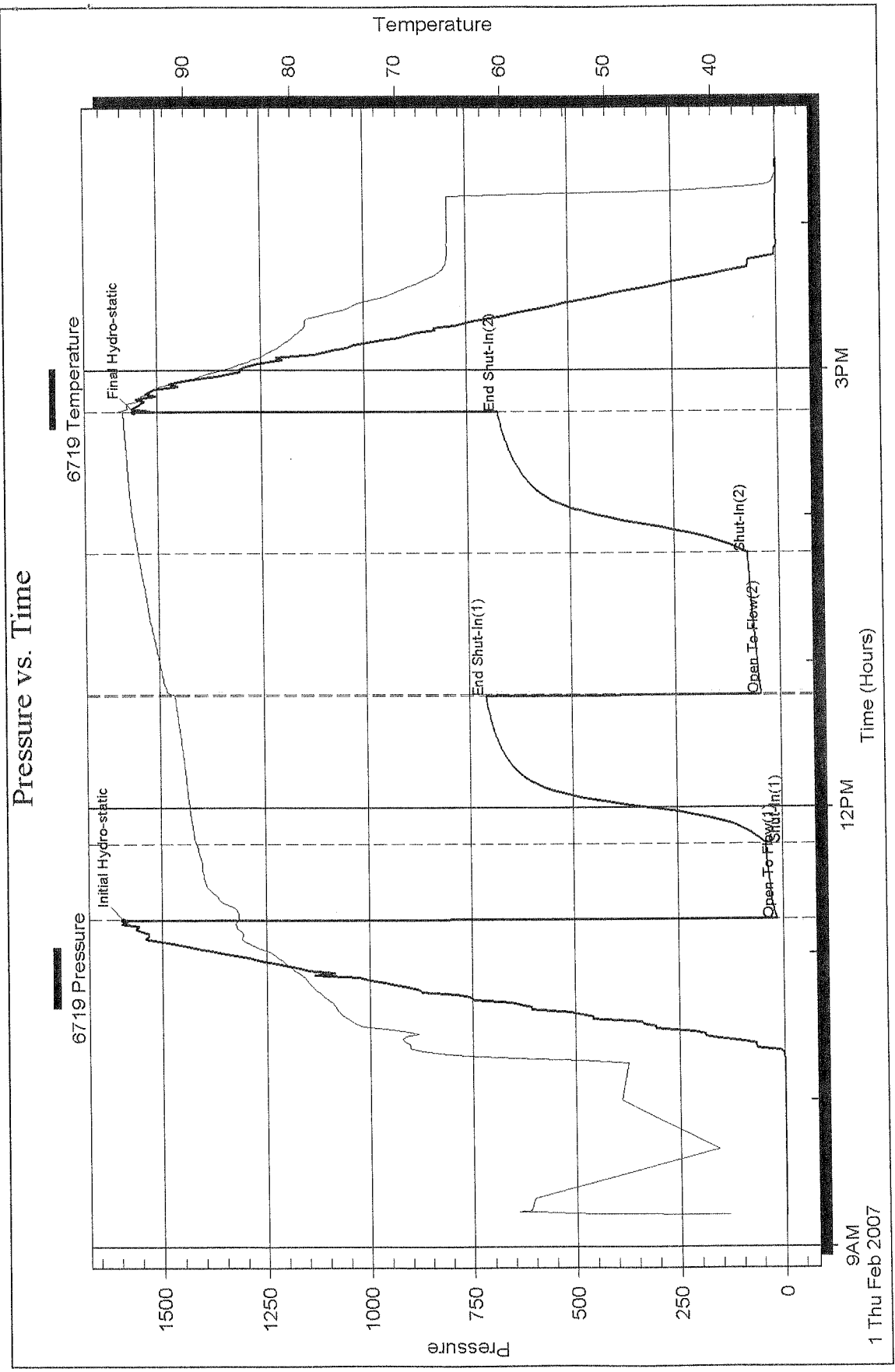
Serial #:

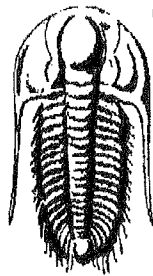
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

30 14S 16E Ellis KS

Brungardt #1-30

Start Date: 2007.02.01 @ 23:00:14

End Date: 2007.02.02 @ 07:17:42

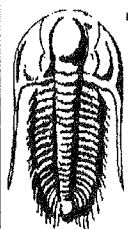
Job Ticket #: 27295 DST #: 3

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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

Brungardt #1-30

30 14S 16E Ellis KS

Job Ticket: 27295

DST#: 3

Test Start: 2007.02.01 @ 23:00:14

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:36:42

Time Test Ended: 07:17:42

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 32

Interval: 3290.00 ft (KB) To 3302.00 ft (KB) (TVD)

Total Depth: 3302.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1934.00 ft (KB)

1929.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 26.88 psig @ 3294.00 ft (KB)

Start Date: 2007.02.01

End Date:

2007.02.02

Capacity: 7000.00 psig

Last Calib.: 2007.02.02

Start Time: 23:00:14

End Time:

07:17:42

Time On Btm: 2007.02.02 @ 01:36:27

Time Off Btm: 2007.02.02 @ 04:36:27

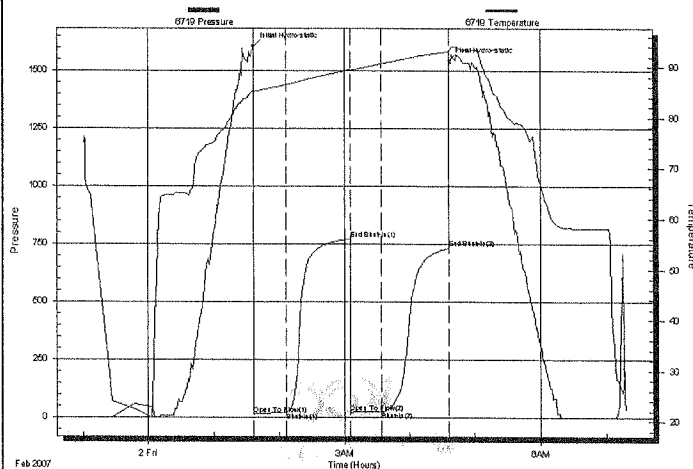
TEST COMMENT: IFP Weak blow throughout 1/4 " - 1/2 "

ISI No blow back

FFP No blow

FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

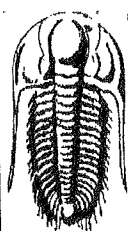
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1606.27	85.41	Initial Hydro-static
1	14.85	85.16	Open To Flow (1)
30	21.53	86.51	Shut-In (1)
89	773.85	89.50	End Shut-In (1)
90	23.04	89.36	Open To Flow (2)
119	26.88	90.74	Shut-In (2)
180	733.10	93.18	End Shut-In (2)
181	1543.47	93.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%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 Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Brungardt #1-30

30 14S 16E Ellis KS

Job Ticket: 27295

DST#: 3

Test Start: 2007.02.01 @ 23:00:14

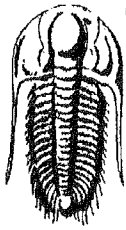
Tool Information

Drill Pipe:	Length: 3135.00 ft	Diameter: 3.80 inches	Volume: 43.98 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: 25000.00 lb
Drill Collar:	Length: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 32000.00 lb
		Total Volume:	44.73 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 29000.00 lb
Depth to Top Packer:	3290.00 ft			Final 29000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	35.00 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			3268.00	
Shut In Tool	5.00			3273.00	
Hydraulic tool	5.00			3278.00	
Safety Joint	2.00			3280.00	
Packer	5.00			3285.00	23.00 Bottom Of Top Packer
Packer	5.00			3290.00	
Stubb	1.00			3291.00	
Perforations	3.00			3294.00	
Recorder	0.00	6719	Inside	3294.00	
Perforations	5.00			3299.00	
Recorder	0.00	13221	Outside	3299.00	
Bullnose	3.00			3302.00	12.00 Bottom Packers & Anchor

Total Tool Length: 35.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Brungardt #1-30

250 N Water Ste 300
Wichita KS 67202

30 14S 16E Ellis KS

Job Ticket: 27295

DST#: 3

ATTN: Brad Rine

Test Start: 2007.02.01 @ 23:00:14

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: 6.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 79000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100%M	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

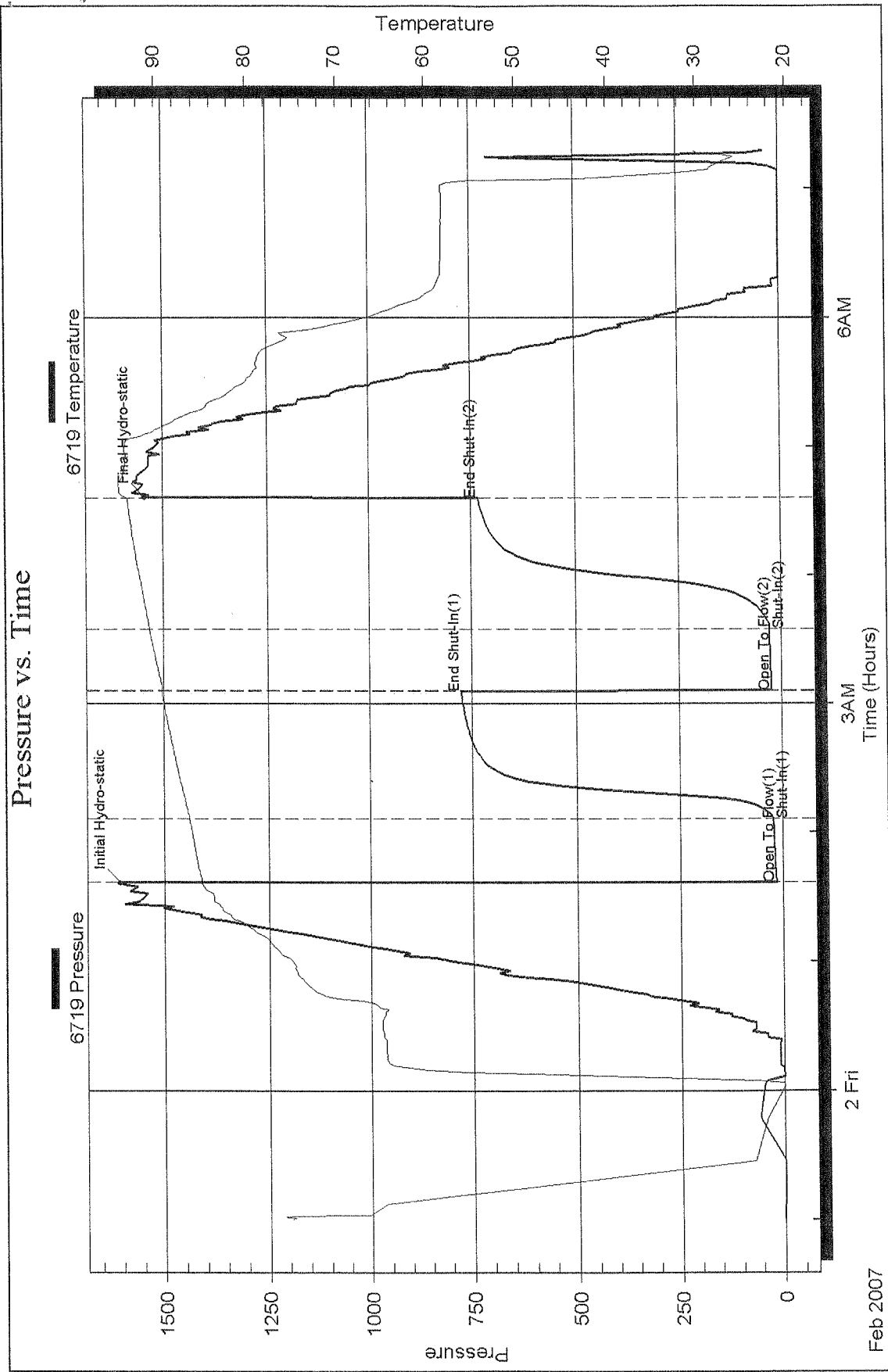
Serial #:

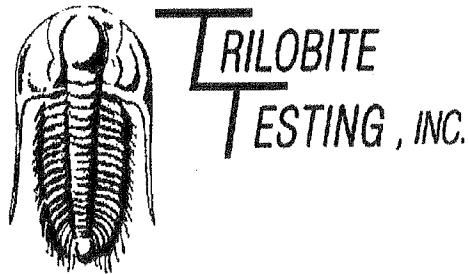
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

30 14S 16E Ellis KS

Brungardt #1-30

Start Date: 2007.02.02 @ 20:04:09

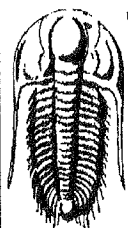
End Date: 2007.02.03 @ 03:15:07

Job Ticket #: 27296 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

Brungardt #1-30

30 14S 16E Ellis KS

Job Ticket: 27296

DST#: 4

Test Start: 2007.02.02 @ 20:04:09

GENERAL INFORMATION:

Formation: **LKC "H-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:05:37

Time Test Ended: 03:15:07

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 32

Interval: 3330.00 ft (KB) To 3420.00 ft (KB) (TVD)

Total Depth: 3420.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1934.00 ft (KB)

1929.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press@RunDepth: 28.72 psig @ 3335.00 ft (KB)

Start Date: 2007.02.02

End Date:

2007.02.03

Start Time: 20:04:09

End Time:

03:15:07

Capacity: 7000.00 psig

Last Calib.: 2007.02.03

Time On Btm: 2007.02.02 @ 22:05:22

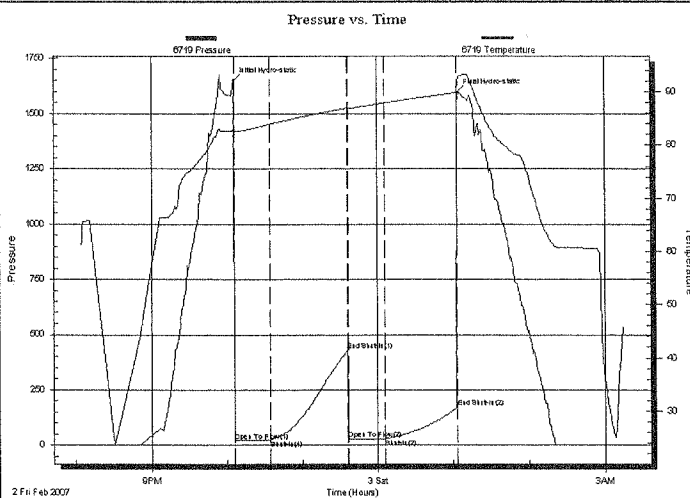
Time Off Btm: 2007.02.03 @ 01:03:52

TEST COMMENT: IFP Weak blow throughout 3/4 " - died 23 min.

ISI No blow back

FFP No blow

FSI No blow back



PRESSURE SUMMARY

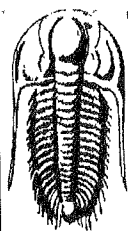
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1649.03	82.93	Initial Hydro-static
1	20.03	82.53	Open To Flow (1)
30	24.29	83.95	Shut-In(1)
91	428.65	86.95	End Shut-In(1)
91	26.38	86.84	Open To Flow (2)
121	28.72	87.94	Shut-In(2)
179	169.90	89.87	End Shut-In(2)
179	1594.74	90.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD scum O	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 Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

Brungardt #1-30

30 14S 16E Ellis KS

Job Ticket: 27296

DST#: 4

Test Start: 2007.02.02 @ 20:04:09

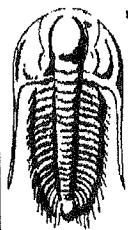
Tool Information

Drill Pipe:	Length: 3171.00 ft	Diameter: 3.80 inches	Volume: 44.48 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:	25000.00 lb
Drill Collar:	Length: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose:	35000.00 lb
		Total Volume:	45.23 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	30000.00 lb
Depth to Top Packer:	3330.00 ft			Final	30000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	90.00 ft				
Tool Length:	113.00 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			3308.00	
Shut In Tool	5.00			3313.00	
Hydraulic tool	5.00			3318.00	
Safety Joint	2.00			3320.00	
Packer	5.00			3325.00	23.00 Bottom Of Top Packer
Packer	5.00			3330.00	
Stubb	1.00			3331.00	
Perforations	3.00			3334.00	
Change Over Sub	1.00			3335.00	
Recorder	0.00	6719	Inside	3335.00	
Blank Spacing	62.00			3397.00	
Change Over Sub	1.00			3398.00	
Perforations	19.00			3417.00	
Recorder	0.00	13221	Outside	3417.00	
Bullnose	3.00			3420.00	90.00 Bottom Packers & Anchor

Total Tool Length: 113.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Brungardt #1-30

250 N Water Ste 300
Wichita KS 67202

30 14S 16E Ellis KS

Job Ticket: 27296

DST#: 4

ATTN: Brad Rine

Test Start: 2007.02.02 @ 20:04:09

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: 6.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD scum O	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

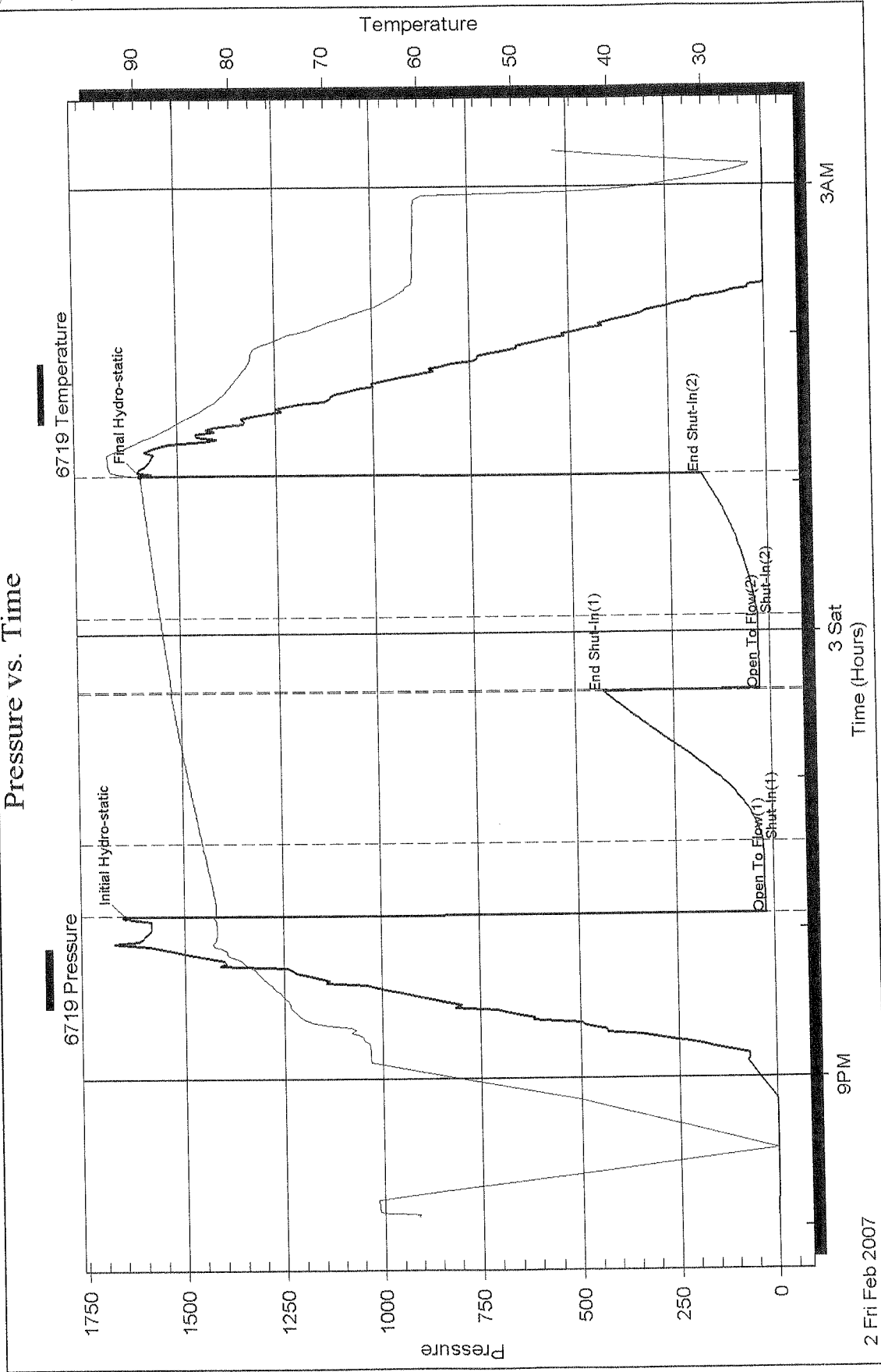
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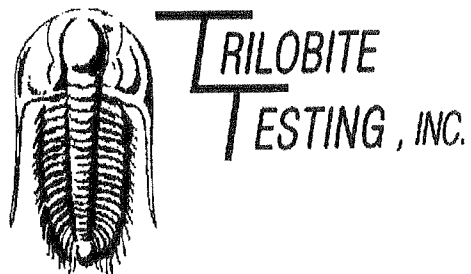
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

30 14S 16E Ellis KS

Brungardt #1-30

Start Date: 2007.02.03 @ 13:38:37

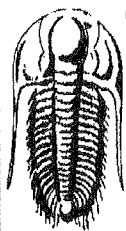
End Date: 2007.02.03 @ 21:12:50

Job Ticket #: 27297 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

Brungardt #1-30

30 14S 16E Ellis KS

Job Ticket: 27297

DST#: 5

Test Start: 2007.02.03 @ 13:38:37

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:41:35

Time Test Ended: 21:12:50

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 32

Interval: 3419.00 ft (KB) To 3459.00 ft (KB) (TVD)

Total Depth: 3459.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1934.00 ft (KB)

1929.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 115.09 psig @ 3422.00 ft (KB)

Start Date: 2007.02.03

End Date:

2007.02.03

Capacity: 7000.00 psig

Last Calib.: 2007.02.03

Start Time: 13:38:37

End Time:

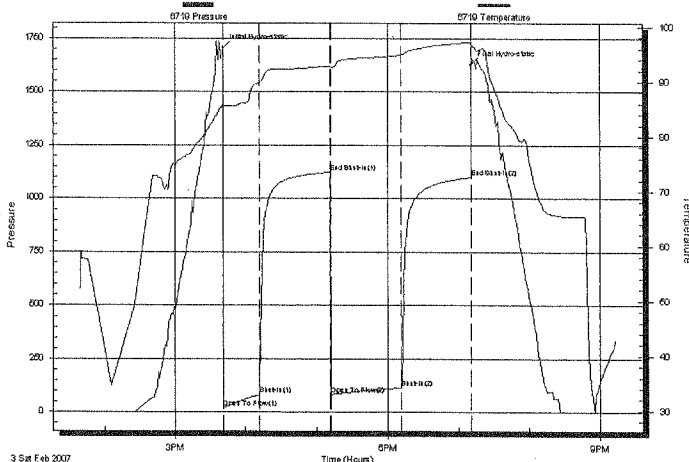
21:12:50

Time On Btm: 2007.02.03 @ 15:41:20

Time Off Btm: 2007.02.03 @ 19:10:35

TEST COMMENT: IFP Weak to good blow 1" - 9"
ISI Sur blow back died 10 min.
FFP BOB 30 min.
FSI Sur blow back died 24 min.

Pressure vs. Time



PRESSURE SUMMARY

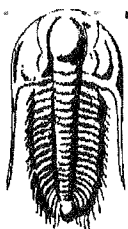
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.25	85.81	Initial Hydro-static
1	17.74	85.61	Open To Flow (1)
31	80.68	89.87	Shut-In(1)
90	1123.00	92.90	End Shut-In(1)
91	83.75	92.65	Open To Flow (2)
151	115.09	94.92	Shut-In(2)
209	1099.44	97.24	End Shut-In(2)
210	1626.05	97.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	GHOCM 5%G 25%O 70%M	1.13
60.00	G Free Oil 20%G 75%O 5%M	0.84

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

Brungardt #1-30

30 14S 16E Ellis KS

Job Ticket: 27297

DST#: 5

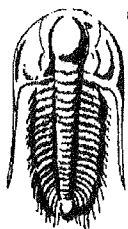
Test Start: 2007.02.03 @ 13:38:37

Tool Information

Drill Pipe:	Length: 3264.00 ft	Diameter: 3.80 inches	Volume: 45.79 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: 25000.00 lb
Drill Collar:	Length: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 32000.00 lb
		Total Volume:	46.54 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 31000.00 lb
Depth to Top Packer:	3419.00 ft			Final 31000.00 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			3397.00	
Shut In Tool	5.00			3402.00	
Hydraulic tool	5.00			3407.00	
Safety Joint	2.00			3409.00	
Packer	5.00			3414.00	23.00 Bottom Of Top Packer
Packer	5.00			3419.00	
Stubb	1.00			3420.00	
Perforations	1.00			3421.00	
Change Over Sub	1.00			3422.00	
Recorder	0.00	6719	Inside	3422.00	
Blank Spacing	31.00			3453.00	
Change Over Sub	1.00			3454.00	
Perforations	2.00			3456.00	
Recorder	0.00	13221	Outside	3456.00	
Bullnose	3.00			3459.00	40.00 Bottom Packers & Anchor
Total Tool Length:		63.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Brungardt #1-30

250 N Water Ste 300
Wichita KS 67202

30 14S 16E Ellis KS

Job Ticket: 27297

DST#: 5

ATTN: Brad Rine

Test Start: 2007.02.03 @ 13:38:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	GHOCM 5%G 25%O 70%M	1.131
60.00	G Free Oil 20%G 75%O 5%M	0.842

Total Length: 240.00 ft

Total Volume: 1.973 bbl

Num Fluid Samples: 0

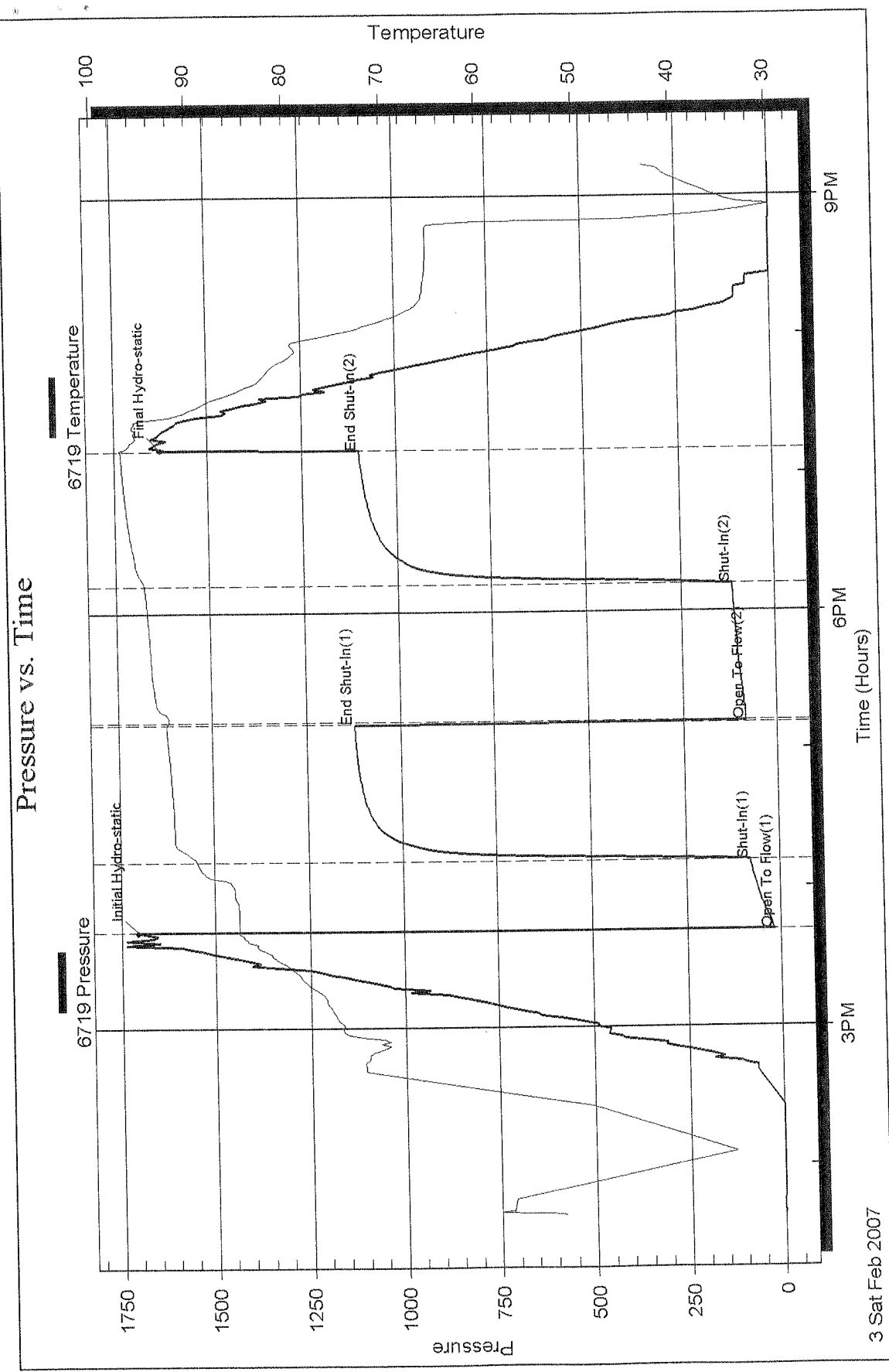
Num Gas Bombs: 0

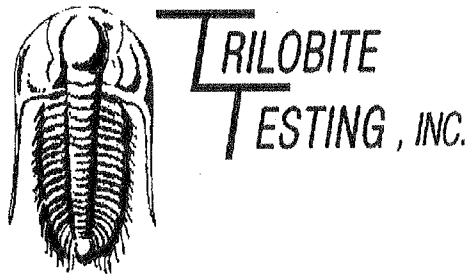
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Brad Rine

30 14S 16E Ellis KS

Brungardt #1-30

Start Date: 2007.02.04 @ 04:45:17

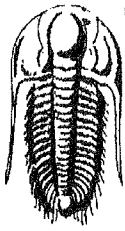
End Date: 2007.02.04 @ 12:59:32

Job Ticket #: 27610 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

Brungardt #1-30

30 14S 16E Ellis KS

Job Ticket: 27610

DST#: 6

Test Start: 2007.02.04 @ 04:45:17

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:38:32

Time Test Ended: 12:59:32

Test Type: Conventional Bottom Hole

Tester: Paul Simpson

Unit No: 32

Interval: 3459.00 ft (KB) To 3469.00 ft (KB) (TVD)

Total Depth: 3254.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1934.00 ft (KB)

1929.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press@RunDepth: 222.00 psig @ 3461.00 ft (KB)

Start Date: 2007.02.04

End Date:

2007.02.04

Start Time: 04:45:19

End Time:

12:59:32

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2007.02.04 @ 07:38:02

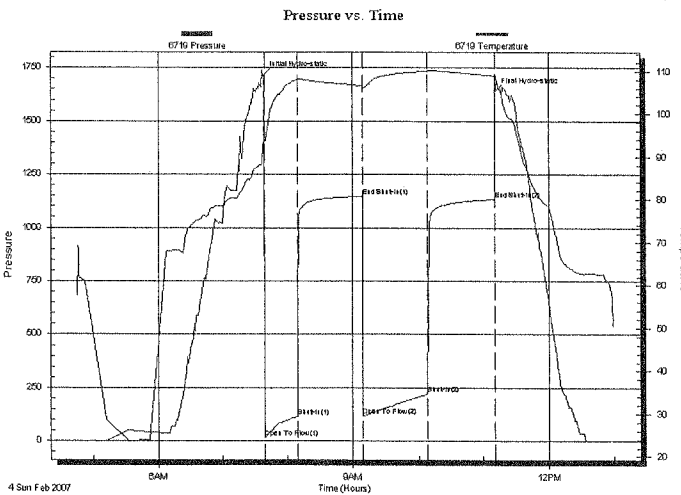
Time Off Btm: 2007.02.04 @ 11:10:32

TEST COMMENT: IF .5 " blow building to bottom of bucket in 18 minutes

ISI No blow

FF Weak surface blow building to bottom of bucket in 25 minutes

FSI No blow



PRESSURE SUMMARY

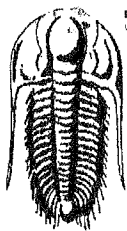
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1713.26	93.61	Initial Hydro-static
1	17.31	93.60	Open To Flow (1)
32	115.59	108.05	Shut-In (1)
91	1147.26	106.58	End Shut-In (1)
91	117.11	106.19	Open To Flow (2)
151	222.00	110.02	Shut-In (2)
213	1133.11	108.93	End Shut-In (2)
213	1640.50	109.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
450.00	sl Muddy Water	4.92

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

Brungardt #1-30

30 14S 16E Ellis KS

Job Ticket: 27610

DST#: 6

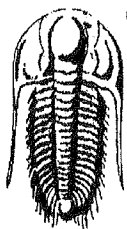
Test Start: 2007.02.04 @ 04:45:17

Tool Information

Drill Pipe:	Length: 3291.00 ft	Diameter: 3.80 inches	Volume: 46.16 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:	33000.00 lb
		Total Volume:	46.91 bbl	Tool Chased	ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	30000.00 lb
Depth to Top Packer:	3459.00 ft			Final	33000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	31.00 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			3439.00	
Shut In Tool	5.00			3444.00	
Hydraulic tool	5.00			3449.00	
Packer	5.00			3454.00	21.00 Bottom Of Top Packer
Packer	5.00			3459.00	
Stubb	1.00			3460.00	
Perforations	1.00			3461.00	
Recorder	0.00	6719	Inside	3461.00	
Perforations	5.00			3466.00	
Recorder	0.00	13221	Outside	3466.00	
Bullnose	3.00			3469.00	10.00 Bottom Packers & Anchor

Total Tool Length: 31.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Brungardt #1-30

250 N Water Ste 300
Wichita KS 67202

30 14S 16E Ellis KS

Job Ticket: 27610

DST#: 6

ATTN: Brad Rine

Test Start: 2007.02.04 @ 04:45:17

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: 31000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
450.00	sl Muddy Water	4.919

Total Length: 450.00 ft

Total Volume: 4.919 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .3 @ 47

Pressure vs. Time

