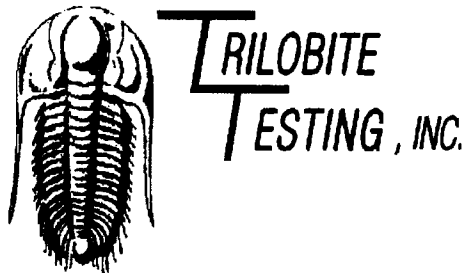


15-039-21036

19-5s-29w



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

19 5S 29W Decatur KS

Green O' Brien # 5-19

Start Date: 2008.02.06 @ 12:04:40

End Date: 2008.02.06 @ 21:11:40

Job Ticket #: 31535 DST #: 1

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MAY 07 2008

CONSERVATION DIVISION
WICHITA, KS

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

Murfin Drilling Co Inc

Green O' Brien # 5-19

19 5S 29W Decatur KS

DST # 1

Toronto - Lams "C"

2008.02.06



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Green O' Brien # 5-19

19 5S 29W Decatur KS

Job Ticket: 31535

DST#: 1

Test Start: 2008.02.06 @ 12:04:40

GENERAL INFORMATION:

Formation: **Toronto - Lans "C"**

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

Time Tool Opened: 15:11:40

Time Test Ended: 21:11:40

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **20**

Interval: **3839.00 ft (KB) To 3918.00 ft (KB) (TVD)**

Total Depth: **3918.00 ft (KB) (TVD)**

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

Reference Elevations: **2821.00 ft (KB)**

2816.00 ft (CF)

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

Serial #: 8366 **Inside**

Press@RunDepth: **60.22 psig @ 3830.00 ft (KB)**

Start Date: **2008.02.06**

End Date: **2008.02.06**

Start Time: **12:04:45**

End Time: **21:11:40**

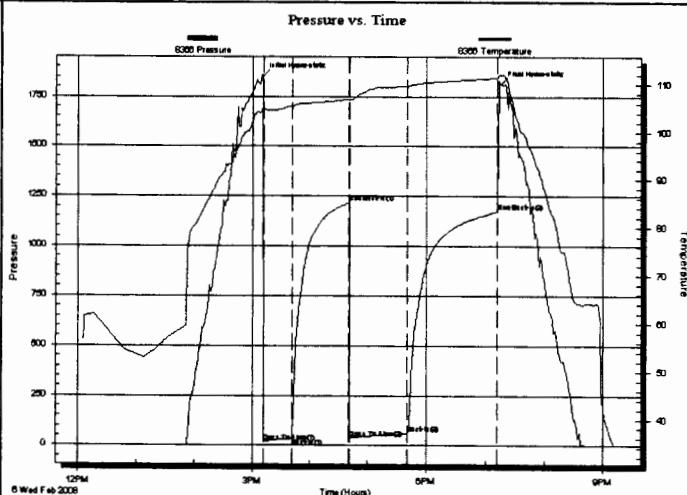
Capacity: **7000.00 psig**

Last Calib.: **2008.02.06**

Time On Btm: **2008.02.06 @ 15:11:10**

Time Off Btm: **2008.02.06 @ 19:14:10**

TEST COMMENT: IF Weak blow built to 2 " in bucket
ISI Bled off No blow back
FF Very weak blow built to 1 3/4 " in bucket
FSI Bled off No blow back



PRESSURE SUMMARY

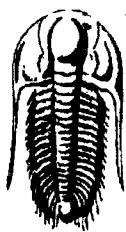
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1849.88	105.04	Initial Hydro-static
1	18.20	104.53	Open To Flow (1)
31	35.37	105.32	Shut-In(1)
90	1215.52	106.76	End Shut-In(1)
91	37.66	106.60	Open To Flow (2)
150	60.22	109.59	Shut-In(2)
241	1171.92	111.36	End Shut-In(2)
243	1810.31	111.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
68.00	100%M (faint trace of Oil)	0.33

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Green O' Brien # 5-19

19 5S 29W Decatur KS

Job Ticket: 31535

DST#: 1

Test Start: 2008.02.06 @ 12:04:40

Tool Information

Drill Pipe:	Length: 3633.00 ft	Diameter: 3.80 inches	Volume: 50.96 bbl	Tool Weight:	2800.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	58000.00 lb
		Total Volume:	51.85 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3829.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	79.00 ft				
Tool Length:	107.00 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			3806.00	
Hydraulic tool	5.00			3811.00	
Jars	5.00			3816.00	
Safety Joint	3.00			3819.00	
Packer	5.00			3824.00	28.00 Bottom Of Top Packer
Packer	5.00			3829.00	
Stubb	1.00			3830.00	
Recorder	0.00	8366	Inside	3830.00	
Recorder	0.00	6672	Inside	3830.00	
Perforations	10.00			3840.00	
Change Over Sub	1.00			3841.00	
Drill Pipe	62.00			3903.00	
Change Over Sub	1.00			3904.00	
Perforations	1.00			3905.00	
Bullnose	3.00			3908.00	79.00 Bottom Packers & Anchor

Total Tool Length: 107.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Green O' Brien # 5-19

19 5S 29W Decatur KS

Job Ticket: 31535

DST#: 1

Test Start: 2008.02.06 @ 12:04:40

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 6.79 in³

Resistivity: ohm.m

Salinity: 1100.00 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
68.00	100%M (faint trace of Oil)	0.334

Total Length: 68.00 ft

Total Volume: 0.334 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

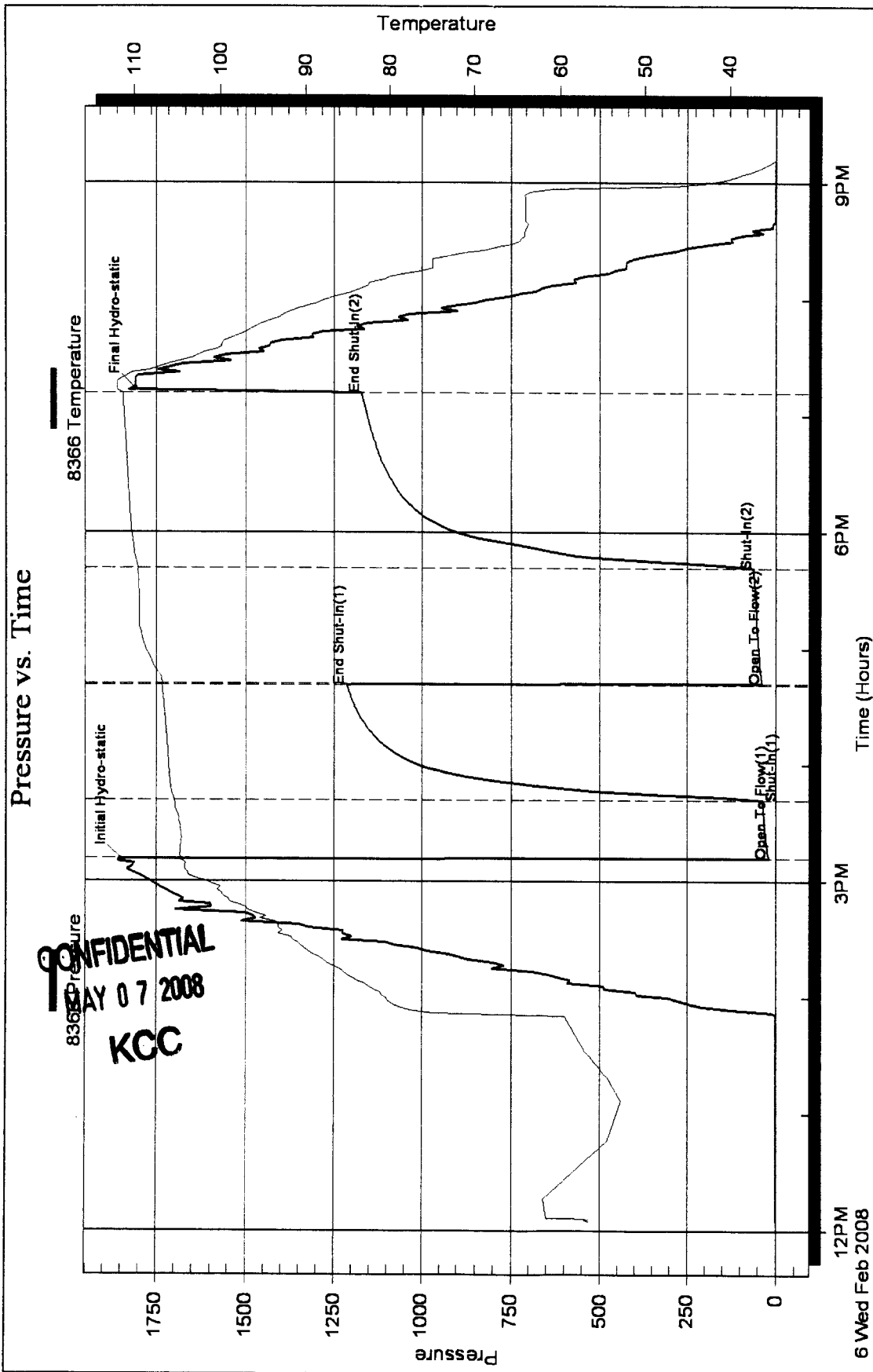
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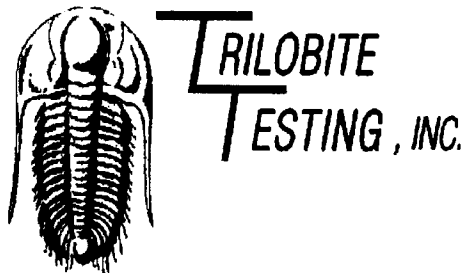
Murfin Drilling Co Inc

19 5S 29W Decatur KS

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

19 5S 29W Decatur KS

Green O' Brien # 5-19

Start Date: 2008.02.07 @ 07:01:34

End Date: 2008.02.07 @ 15:12:34

Job Ticket #: 31536 DST #: 2

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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 Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Green O' Brien # 5-19

19 5S 29W Decatur KS

Job Ticket: 31536

DST#: 2

Test Start: 2008.02.07 @ 07:01:34

GENERAL INFORMATION:

Formation: **Lans. "E - G"**

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

Time Tool Opened: 09:09:34

Time Test Ended: 15:12:34

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **20**

Interval: **3934.00 ft (KB) To 3980.00 ft (KB) (TVD)**

Total Depth: **3980.00 ft (KB) (TVD)**

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

Reference Elevations: **2821.00 ft (KB)**

2816.00 ft (CF)

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

Serial #: 8366 **Inside**

Press@RunDepth: **119.07 psig @ 3935.00 ft (KB)**

Start Date: **2008.02.07**

End Date: **2008.02.07**

Start Time: **07:01:39**

End Time: **15:12:33**

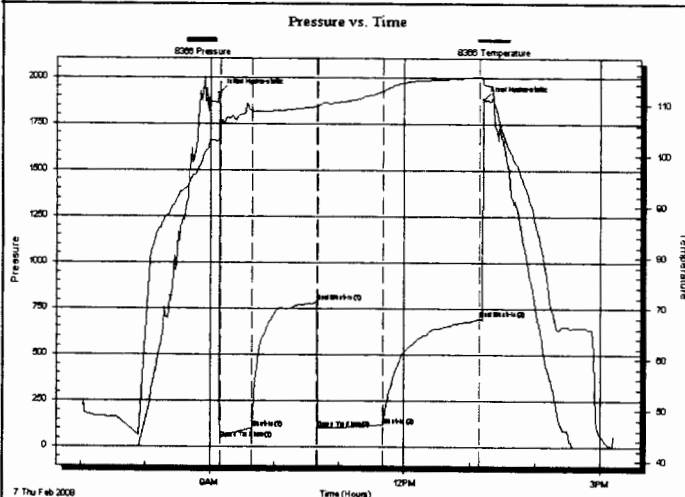
Capacity: **7000.00 psig**

Last Calib.: **2008.02.07**

Time On Btm: **2008.02.07 @ 09:08:34**

Time Off Btm: **2008.02.07 @ 13:12:34**

TEST COMMENT: IF Fair blow built to 5" in bucket (Tool slid 2' through fill before open)
ISI Bled off very weak occasional surface blow back
FF Fair blow built to 5" in bucket
FSI Bled off No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1913.31	103.51	Initial Hydro-static
1	46.74	104.92	Open To Flow (1)
31	101.28	108.73	Shut-In (1)
91	788.83	109.68	End Shut-In (1)
92	103.50	109.59	Open To Flow (2)
152	119.07	112.66	Shut-In (2)
241	698.28	115.54	End Shut-In (2)
244	1880.02	114.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
230.00	SGOCM 83%M 12%O 5%G	1.59
5.00	Clean Oil	0.07
0.00	API = 26.2 @ 54 deg F	0.00
0.00	Corrected Gravity = 26.8 API	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Green O' Brien # 5-19

19 5S 29W Decatur KS

Job Ticket: 31536

DST#: 2

Test Start: 2008.02.07 @ 07:01:34

Tool Information

Drill Pipe:	Length: 3768.00 ft	Diameter: 3.80 inches	Volume: 52.86 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 58000.00 lb
		Total Volume:	53.75 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3934.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3919.00	
Hydraulic tool	5.00			3924.00	
Packer	5.00			3929.00	20.00 Bottom Of Top Packer
Packer	5.00			3934.00	
Stubb	1.00			3935.00	
Recorder	0.00	8366	Inside	3935.00	
Recorder	0.00	6672	Inside	3935.00	
Perforations	10.00			3945.00	
Change Over Sub	1.00			3946.00	
Drill Pipe	31.00			3977.00	
Bullnose	3.00			3980.00	46.00 Bottom Packers & Anchor

Total Tool Length: 66.00

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Green O' Brien # 5-19

250 N Water Ste 300
Wichita KS 67202

19 5S 29W Decatur KS

Job Ticket: 31536

DST#: 2

ATTN: Rocky Milford

Test Start: 2008.02.07 @ 07:01:34

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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
230.00	SGOCM 83%M 12%O 5%G	1.587
5.00	Clean Oil	0.070
0.00	API = 26.2 @ 54 deg F	0.000
0.00	Corrected Gravity = 26.8 API	0.000

Total Length: 235.00 ft

Total Volume: 1.657 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

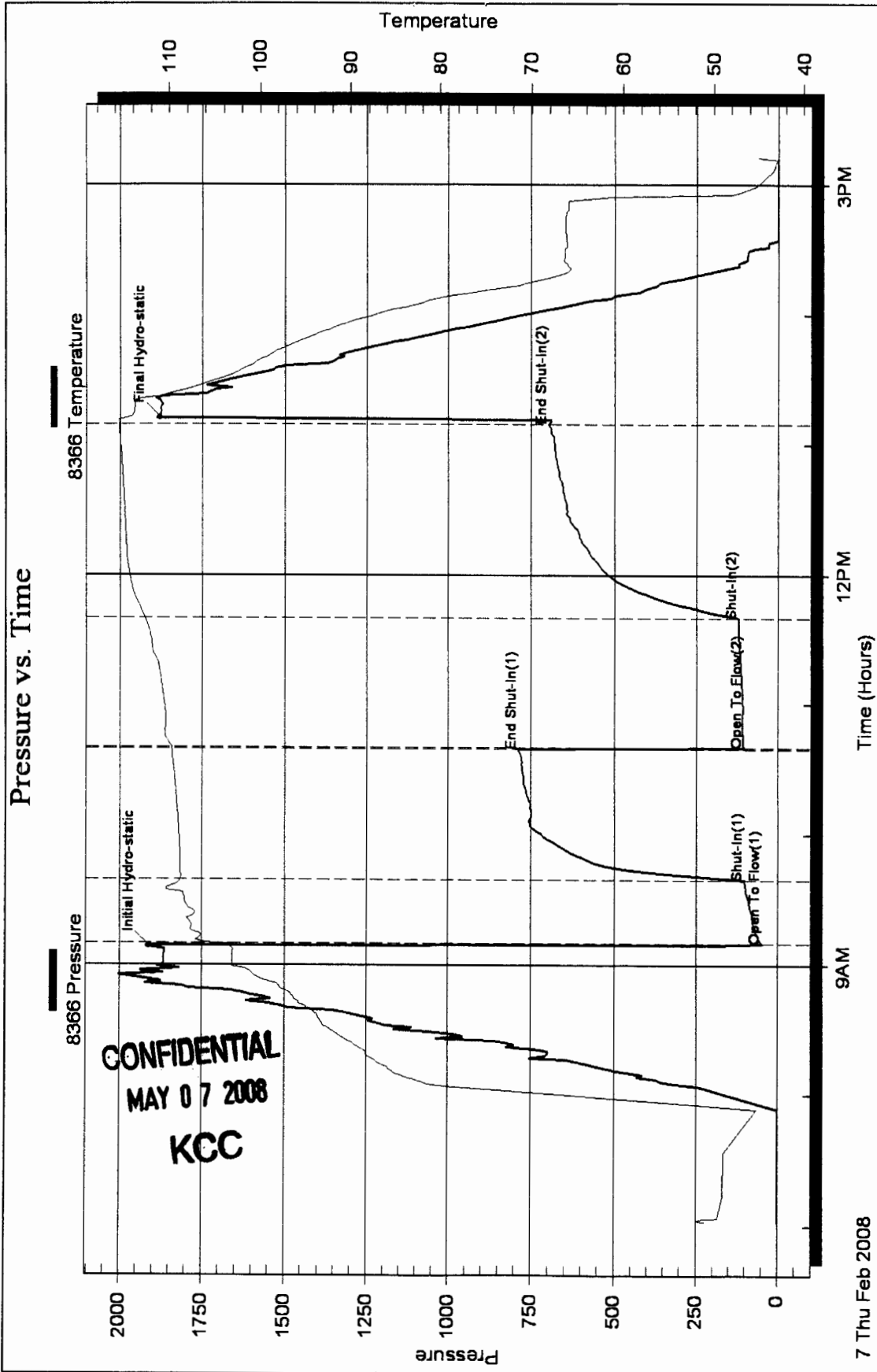
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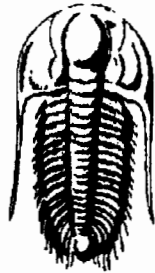
Laboratory Name:

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

ATTN: Rocky Milford

19 5S 29W Decatur KS

Green O' Brien # 5-19

Start Date: 2008.02.08 @ 02:06:11

End Date: 2008.02.08 @ 09:40:41

Job Ticket #: 31537 DST #: 3

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WICHITA, KS

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Green O' Brien # 5-19

19 5S 29W Decatur KS

Job Ticket: 31537

DST#: 3

Test Start: 2008.02.08 @ 02:06:11

GENERAL INFORMATION:

Formation: **Lans. "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:06:41

Time Test Ended: 09:40:41

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 20

Interval: **3981.00 ft (KB) To 4075.00 ft (KB) (TVD)**

Total Depth: 4075.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2821.00 ft (KB)

2816.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 35.23 psig @ 3982.00 ft (KB)

Start Date: 2008.02.08

End Date: 2008.02.08

Start Time: 02:06:16

End Time: 09:40:40

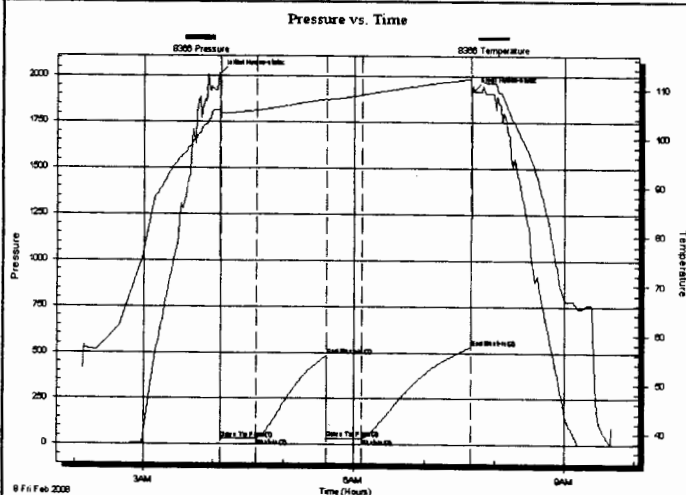
Capacity: 7000.00 psig

Last Calib.: 2008.02.08

Time On Btm: 2008.02.08 @ 04:05:41

Time Off Btm: 2008.02.08 @ 07:41:41

TEST COMMENT: IF Weak blow built to 1 1/2 " then died back to 1 1/8 "
ISI Bled off No blow back
FF No blow
FSI No blow back



PRESSURE SUMMARY

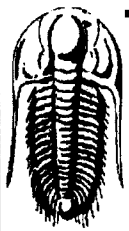
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2010.81	105.51	Initial Hydro-static
1	30.46	105.08	Open To Flow (1)
31	32.97	105.65	Shut-In(1)
91	485.06	108.01	End Shut-In(1)
91	33.57	107.81	Open To Flow (2)
121	35.23	108.85	Shut-In(2)
214	531.73	112.20	End Shut-In(2)
216	1922.35	112.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud w/ trace of Oil	0.25

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

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

Green O' Brien # 5-19

19 5S 29W Decatur KS

Job Ticket: 31537

DST#: 3

Test Start: 2008.02.08 @ 02:06:11

Tool Information

Drill Pipe:	Length: 3802.00 ft	Diameter: 3.80 inches	Volume: 53.33 bbl	Tool Weight: 2400.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 54.22 bbl		Tool Chased 2.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3981.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	94.00 ft			
Tool Length:	114.00 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			3966.00	
Hydraulic tool	5.00			3971.00	
Packer	5.00			3976.00	20.00 Bottom Of Top Packer
Packer	5.00			3981.00	
Stubb	1.00			3982.00	
Recorder	0.00	8366	Inside	3982.00	
Recorder	0.00	6672	Inside	3982.00	
Perforations	25.00			4007.00	
Change Over Sub	1.00			4008.00	
Drill Pipe	62.00			4070.00	
Change Over Sub	1.00			4071.00	
Perforations	1.00			4072.00	
Bullnose	3.00			4075.00	94.00 Bottom Packers & Anchor

Total Tool Length: 114.00

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Green O' Brien # 5-19

250 N Water Ste 300
Wichita KS 67202

19 5S 29W Decatur KS

Job Ticket: 31537

DST#: 3

ATTN: Rocky Milford

Test Start: 2008.02.08 @ 02:06:11

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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Mud w/ trace of Oil	0.246

Total Length: 50.00 ft

Total Volume: 0.246 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

