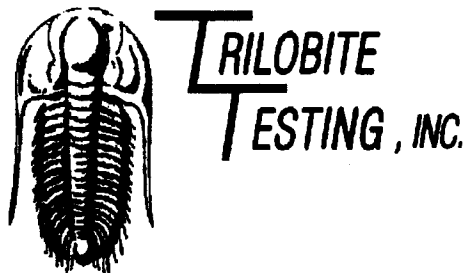


15-039-21049

19-5s-29w



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

CONFIDENTIAL
JUN 25 2008
KCC

ATTN: Dave Goldak

19 5S 29W Decatur KS

Green O'Brien #7-19

Start Date: 2008.03.03 @ 09:57:43

End Date: 2008.03.03 @ 17:52:13

Job Ticket #: 31550 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

JUN 27 2008

CONSERVATION DIVISION
WICHITA, KS

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Dave Goldak

Green O'Brien #7-19

19 5S 29W Decatur KS

Job Ticket: 31550

DST#: 1

Test Start: 2008.03.03 @ 09:57:43

GENERAL INFORMATION:

Formation: **Toronto, Lans. "A-C"**

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

Time Tool Opened: 12:06:13

Time Test Ended: 17:52:13

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **20**

Interval: **3844.00 ft (KB) To 3925.00 ft (KB) (TVD)**

Total Depth: **3925.00 ft (KB) (TVD)**

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

Reference Elevations: **2828.00 ft (KB)**

2823.00 ft (CF)

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

Serial #: 8366

Inside

Press@RunDepth: **157.21 psig @ 3845.00 ft (KB)**

Start Date: **2008.03.03**

End Date:

2008.03.03

Capacity: **7000.00 psig**

Last Calib.: **2008.03.03**

Start Time: **09:57:48**

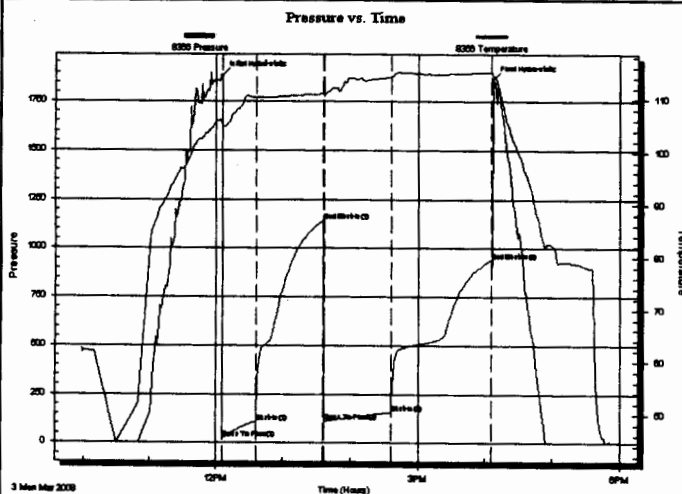
End Time:

17:52:12

Time On Btm: **2008.03.03 @ 12:05:43**

Time Off Btm: **2008.03.03 @ 16:07:13**

TEST COMMENT: IF Strong blow built to 10 " in bucket
ISI Bled off very weak intermittent surface blow back
FF Strong blow BOB in 50 min.
FSI Bled off very weak intermittent surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.41	105.40	Initial Hydro-static
1	23.39	104.90	Open To Flow (1)
31	107.79	110.15	Shut-In (1)
90	1141.51	111.05	End Shut-In (1)
91	111.00	110.94	Open To Flow (2)
150	157.21	114.29	Shut-In (2)
240	940.38	115.14	End Shut-In (2)
242	1861.81	114.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	SGOWCM 75%M 13%W 8%O 4%G	0.89
118.00	SGOCM 87%M 10%O 3%G	1.66

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: Dave Goldak

Green O'Brien #7-19

19 5S 29W Decatur KS

Job Ticket: 31550

DST#: 1

Test Start: 2008.03.03 @ 09:57:43

Tool Information

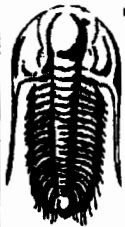
Drill Pipe:	Length: 3643.00 ft	Diameter: 3.80 inches	Volume: 51.10 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 68000.00 lb
		Total Volume: 51.99 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3844.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	109.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3821.00	
Hydraulic tool	5.00			3826.00	
Jars	5.00			3831.00	
Safety Joint	3.00			3834.00	
Packer	5.00			3839.00	28.00 Bottom Of Top Packer
Packer	5.00			3844.00	
Stubb	1.00			3845.00	
Recorder	0.00	8366	Inside	3845.00	
Recorder	0.00	6672	Inside	3845.00	
Perforations	10.00			3855.00	
Change Over Sub	1.00			3856.00	
Drill Pipe	63.00			3919.00	
Change Over Sub	1.00			3920.00	
Perforations	2.00			3922.00	
Bullnose	3.00			3925.00	81.00 Bottom Packers & Anchor

Total Tool Length: 109.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Green O'Brien #7-19

250 N Water Ste 300
Wichita KS 67202

19 5S 29W Decatur KS

Job Ticket: 31550

DST#: 1

ATTN: Dave Goldak

Test Start: 2008.03.03 @ 09:57:43

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 6.39 in³

Resistivity: ohm.m

Salinity: 800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	SGOWQM 75%M 13%W 8%O 4%G	0.885
118.00	SGOCM 87%M 10%O 3%G	1.655

Total Length: 298.00 ft

Total Volume: 2.540 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

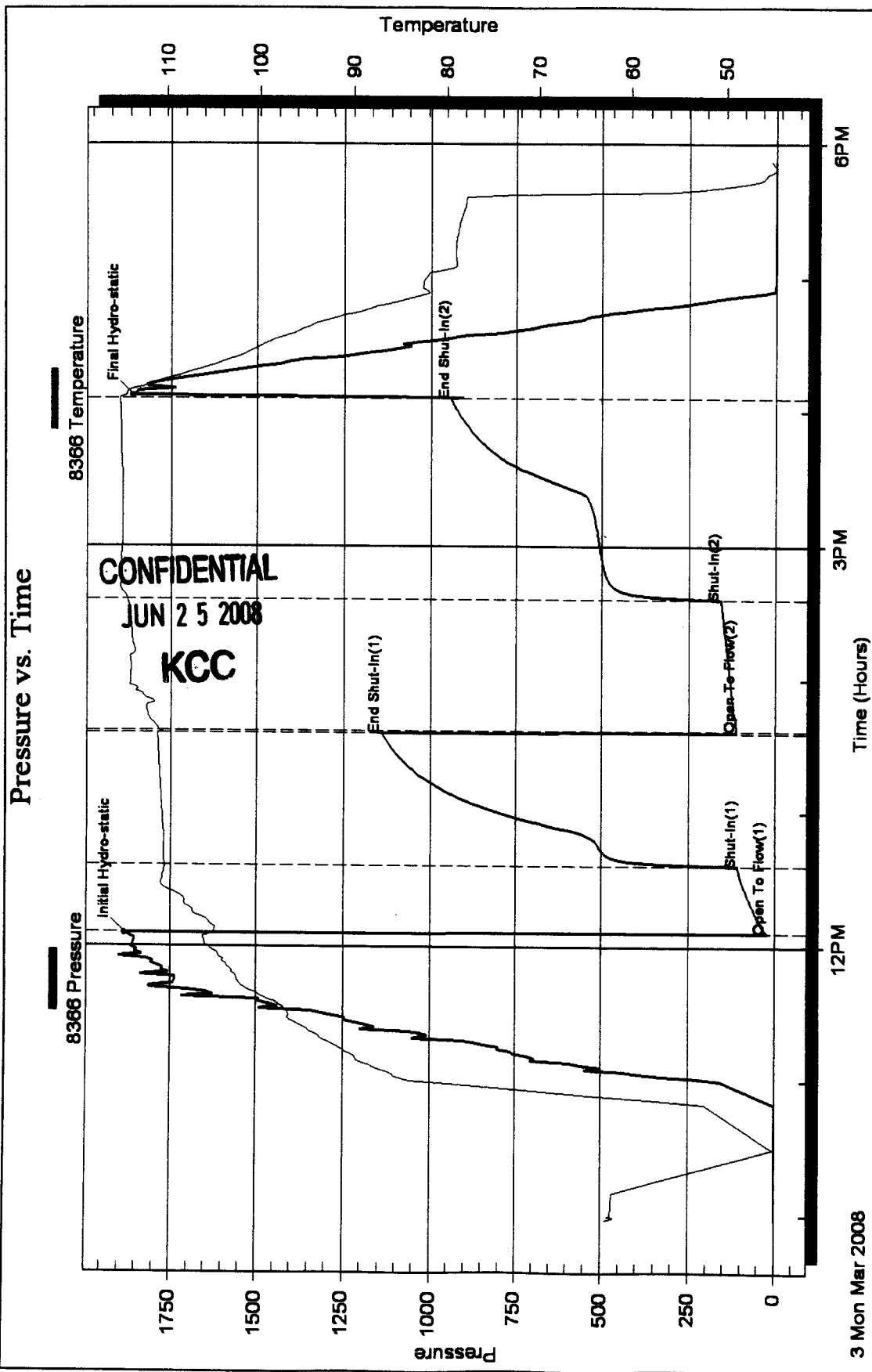
Serial #:

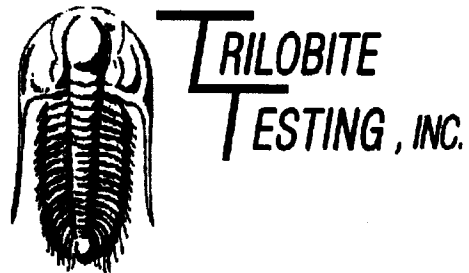
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Dave Goldak

19 5S 29W Decatur KS

Green O'Brien #7-19

Start Date: 2008.03.04 @ 03:54:06

End Date: 2008.03.04 @ 11:25:06

Job Ticket #: 31551 DST #: 2

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

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JUN 2 7 2008
CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Dave Goldak

Green O'Brien #7-19

19 5S 29W Decatur KS

Job Ticket: 31551

DST#: 2

Test Start: 2008.03.04 @ 03:54:06

GENERAL INFORMATION:

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

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

Time Tool Opened: 06:05:36

Time Test Ended: 11:25:06

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **20**

Interval: **3940.00 ft (KB) To 3978.00 ft (KB) (TVD)**

Total Depth: **3978.00 ft (KB) (TVD)**

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

Reference Elevations: **2828.00 ft (KB)**

2823.00 ft (CF)

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

Serial #: 8366

Inside

Press@RunDepth: **20.13 psig @ 3941.00 ft (KB)**

Start Date: **2008.03.04**

End Date:

2008.03.04

Start Time: **03:54:11**

End Time:

11:25:05

Capacity: **7000.00 psig**

Last Calib.: **2008.03.04**

Time On Btrr: **2008.03.04 @ 06:05:06**

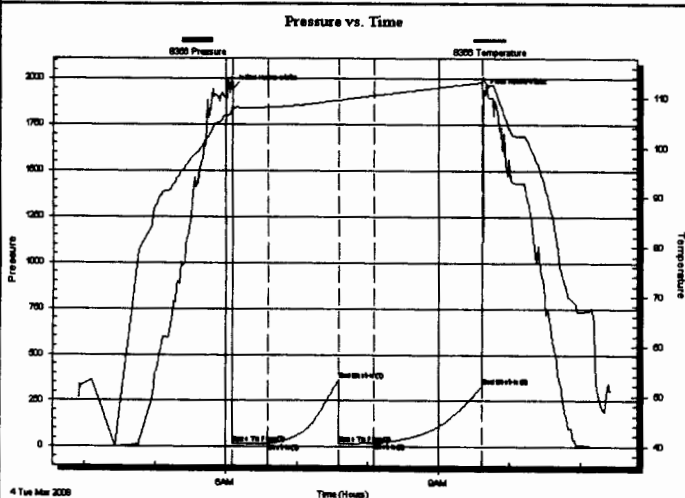
Time Off Btrr: **2008.03.04 @ 09:38:06**

TEST COMMENT: IF Very weak blow built to 1 1/2 " in bucket (tool slid 4' to bottom before open)

ISI Bled off Very weak surface blow back for a few min.

FF Very weak surface blow dead in 20 min.

FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1945.57	108.15	Initial Hydro-static
1	16.88	107.64	Open To Flow (1)
31	18.51	107.98	Shut-In(1)
90	363.88	109.47	End Shut-In(1)
91	19.06	109.29	Open To Flow (2)
121	20.13	110.40	Shut-In(2)
212	328.79	113.06	End Shut-In(2)
213	1929.09	113.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	VSOOM 97%M 3%O	0.02

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: Dave Goldak

Green O'Brien #7-19

19 5S 29W Decatur KS

Job Ticket: 31551

DST#: 2

Test Start: 2008.03.04 @ 03:54:06

Tool Information

Drill Pipe:	Length: 3739.00 ft	Diameter: 3.80 inches	Volume: 52.45 bbl	Tool Weight: 2600.00 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: 75000.00 lb
		Total Volume:	53.34 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3940.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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JUN 25 2008

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00	KCC		3917.00	
Hydraulic tool	5.00			3922.00	
Jars	5.00			3927.00	
Safety Joint	3.00			3930.00	
Packer	5.00			3935.00	28.00 Bottom Of Top Packer
Packer	5.00			3940.00	
Stubb	1.00			3941.00	
Recorder	0.00	8366	Inside	3941.00	
Recorder	0.00	6672	Inside	3941.00	
Perforations	34.00			3975.00	
Bullnose	3.00			3978.00	38.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Green O'Brien #7-19

250 N Water Ste 300
Wichita KS 67202

19 5S 29W Decatur KS

Job Ticket: 31551

DST#: 2

ATTN: Dave Goldak

Test Start: 2008.03.04 @ 03:54:06

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: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	VSOCM 97%M 3%O	0.020

Total Length: 4.00 ft

Total Volume: 0.020 bbl

Num Fluid Samples: 0

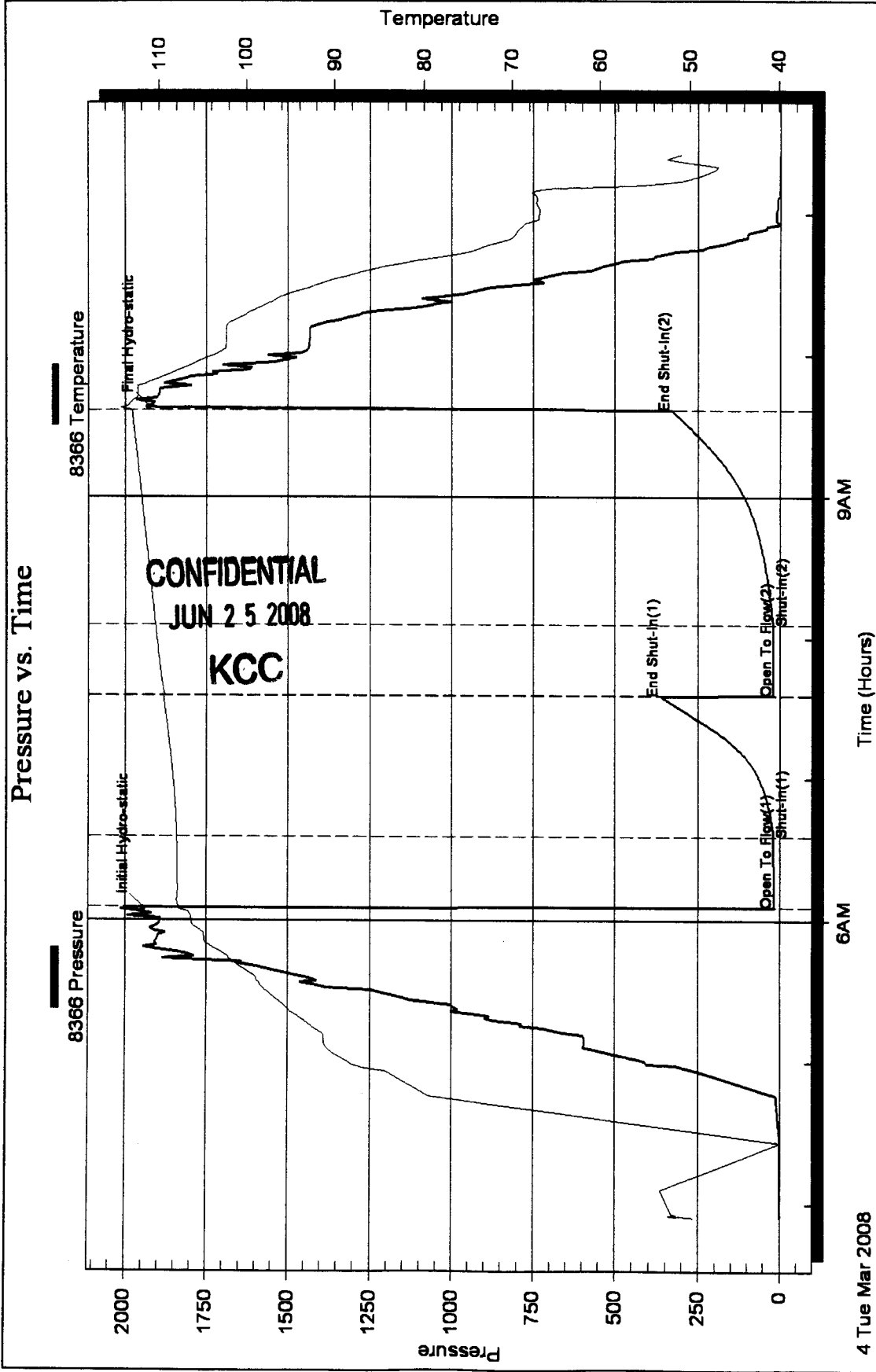
Num Gas Bombs: 0

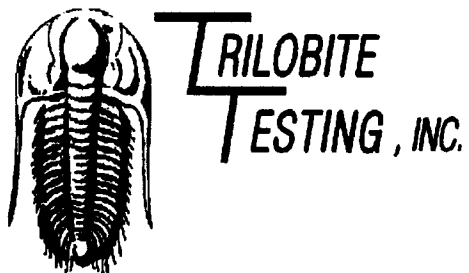
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

CONFIDENTIAL

JUN 25 2008

KCC

ATTN: Dave Goldak

19 5S 29W Decatur KS

Green O'Brien #7-19

Start Date: 2008.03.05 @ 00:07:44

End Date: 2008.03.05 @ 08:17:14

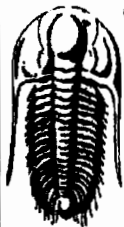
Job Ticket #: 31552 DST #: 3

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

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JUN 27 2008

CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Dave Goldak

Green O'Brien #7-19

19 5S 29W Decatur KS

Job Ticket: 31552

DST#: 3

Test Start: 2008.03.05 @ 00:07:44

GENERAL INFORMATION:

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

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

Time Tool Opened: 02:18:44

Time Test Ended: 08:17:14

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **20**

Interval: **3988.00 ft (KB) To 4084.00 ft (KB) (TVD)**

Total Depth: **4084.00 ft (KB) (TVD)**

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

Reference Elevations: **2828.00 ft (KB)**

2823.00 ft (CF)

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

Serial #: 8366

Inside

Press@RunDepth: **36.49 psig @ 3989.00 ft (KB)**

Start Date: **2008.03.05**

End Date: **2008.03.05**

Start Time: **00:07:49**

End Time: **08:17:13**

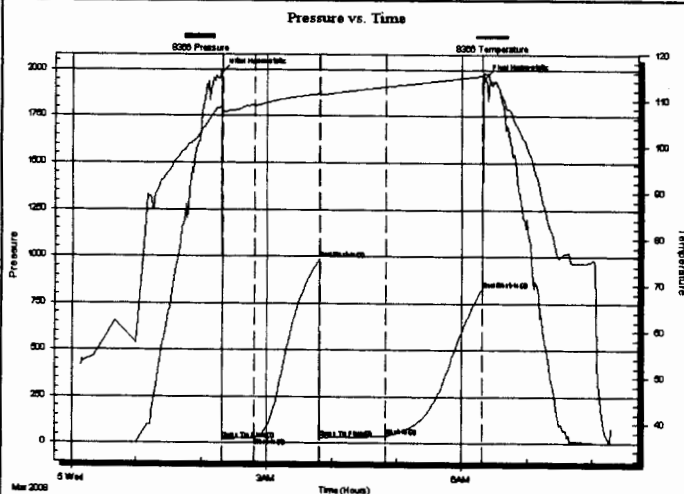
Capacity: **7000.00 psig**

Last Calib.: **2008.03.05**

Time On Btrr: **2008.03.05 @ 02:18:14**

Time Off Btrr: **2008.03.05 @ 06:20:44**

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1984.72	108.32	Initial Hydro-static
1	19.90	107.39	Open To Flow (1)
31	28.37	108.78	Shut-In (1)
90	985.63	111.37	End Shut-In (1)
91	30.30	111.02	Open To Flow (2)
151	36.49	112.86	Shut-In (2)
241	827.40	115.33	End Shut-In (2)
243	1955.50	115.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Clean Oil	0.02
4.00	SGMCO 80%O 18%M 2%G	0.02
8.00	SGOOCM 82%M 16%O 2%G	0.04

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: Dave Goldak

Green O'Brien #7-19

19 5S 29W Decatur KS

Job Ticket: 31552

DST#: 3

Test Start: 2008.03.05 @ 00:07:44

Tool Information

Drill Pipe:	Length: 3800.00 ft	Diameter: 3.80 inches	Volume: 53.30 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: 60000.00 lb
			Total Volume: 54.19 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3988.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	96.00 ft			
Tool Length:	124.00 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			3965.00	
Hydraulic tool	5.00			3970.00	
Jars	5.00			3975.00	
Safety Joint	3.00			3978.00	
Packer	5.00			3983.00	28.00 Bottom Of Top Packer
Packer	5.00			3988.00	
Stubb	1.00			3989.00	
Recorder	0.00	8366	Inside	3989.00	
Recorder	0.00	6672	Inside	3989.00	
Perforations	25.00			4014.00	
Change Over Sub	1.00			4015.00	
Drill Pipe	63.00			4078.00	
Change Over Sub	1.00			4079.00	
Perforations	2.00			4081.00	
Bullnose	3.00			4084.00	96.00 Bottom Packers & Anchor

Total Tool Length: 124.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Green O'Brien #7-19

250 N Water Ste 300
Wichita KS 67202

19 5S 29W Decatur KS

Job Ticket: 31552

DST#: 3

ATTN: Dave Goldak

Test Start: 2008.03.05 @ 00:07:44

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 6.79 in³

Resistivity: ohm.m

Salinity: 1200.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbf

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	Clean Oil	0.020
4.00	SGMCO 80%O 18%M 2%G	0.020
8.00	SGOCM 82%M 16%O 2%G	0.039

Total Length: 16.00 ft

Total Volume: 0.079 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

