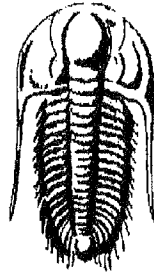


15-065-23509

19-10s-21w

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita, KS 67202

ATTN: David Doyle

19-10-21 Graham Ks

Sears Mc Waller # 1-19

Start Date: 2008.12.03 @ 07:10:15

End Date: 2008.12.03 @ 14:30:45

Job Ticket #: 34352 DST #: 1

**KCC
FEB 03 2009
CONFIDENTIAL**

**RECEIVED
KANSAS CORPORATION COMMISSION
FEB 04 2009
CONSERVATION DIVISION
WICHITA, KS**

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

Murfin Drilling Co Inc

Sears Mc Waller # 1-19

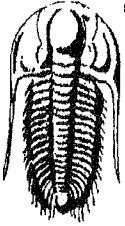
19-10-21 Graham Ks

DST # 1

B-1

LKC

2008.12.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita, KS 67202
ATTN: David Doyle

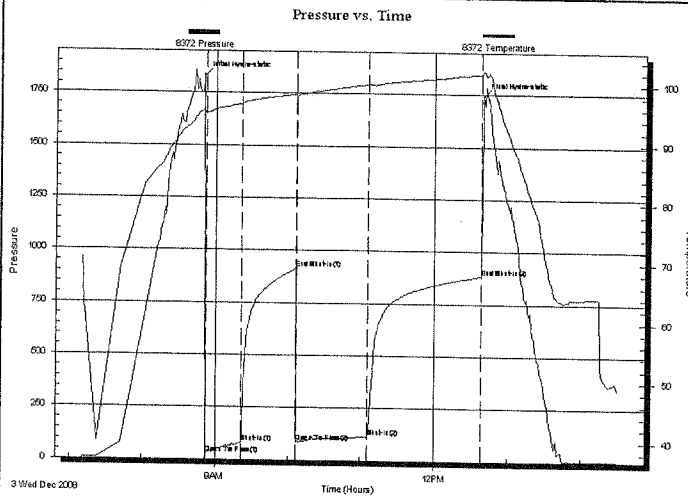
Sears Mc Waller # 1-19
19-10-21 Graham Ks
Job Ticket: 34352 DST#: 1
Test Start: 2008.12.03 @ 07:10:15

GENERAL INFORMATION:

Formation: **B-I LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:51:45
Time Test Ended: 14:30:45
Interval: **3567.00 ft (KB) To 3720.00 ft (KB) (TVD)**
Total Depth: 3720.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 38
Reference Elevations: 2262.00 ft (KB)
2257.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8372 Inside
Press@RunDepth: 114.94 psig @ 3570.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.12.03 End Date: 2008.12.03 Last Calib.: 2008.12.03
Start Time: 07:10:16 End Time: 14:30:45 Time On Btm: 2008.12.03 @ 08:50:45
Time Off Btm: 2008.12.03 @ 12:40:15

TEST COMMENT: IF-Weak building to 1 1/4"
FF-Weak building to 1/4"



PRESSURE SUMMARY

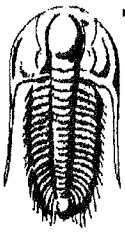
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1831.20	95.58	Initial Hydro-static
1	27.67	95.04	Open To Flow (1)
31	81.25	96.73	Shut-In(1)
75	913.41	98.33	End Shut-In(1)
76	84.86	98.03	Open To Flow (2)
135	114.94	100.06	Shut-In(2)
228	883.69	101.87	End Shut-In(2)
230	1742.06	102.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	SillyOCM 3%o 97%am	1.30
5.00	CO	0.07

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: David Doyle

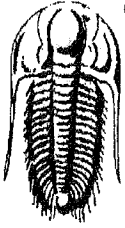
Sears Mc Waller # 1-19
19-10-21 Graham Ks
Job Ticket: 34352 **DST#: 1**
Test Start: 2008.12.03 @ 07:10:15

Tool Information

Drill Pipe:	Length: 3391.00 ft	Diameter: 3.80 inches	Volume: 47.57 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 48.31 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3567.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	153.00 ft			
Tool Length:	182.00 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			3539.00	
Shut In Tool	5.00			3544.00	
Hydraulic tool	5.00			3549.00	
Jars	5.00			3554.00	
Safety Joint	3.00			3557.00	
Packer	5.00			3562.00	29.00 Bottom Of Top Packer
Packer	5.00			3567.00	
Stubb	1.00			3568.00	
Perforations	1.00			3569.00	
Change Over Sub	1.00			3570.00	
Recorder	0.00	8372	Inside	3570.00	
Recorder	0.00	8368	Outside	3570.00	
Drill Pipe	124.00			3694.00	
Change Over Sub	1.00			3695.00	
Perforations	22.00			3717.00	
Bullnose	3.00			3720.00	153.00 Bottom Packers & Anchor
Total Tool Length:	182.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Sears Mc Waller # 1-19

250 N Water Ste 300
Wichita, KS 67202

19-10-21 Graham Ks

Job Ticket: 34352

DST#: 1

ATTN: David Doyle

Test Start: 2008.12.03 @ 07:10:15

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: 69.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	Silty OCM 3%o 97%m	1.299
5.00	CO	0.070

Total Length: 195.00 ft Total Volume: 1.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

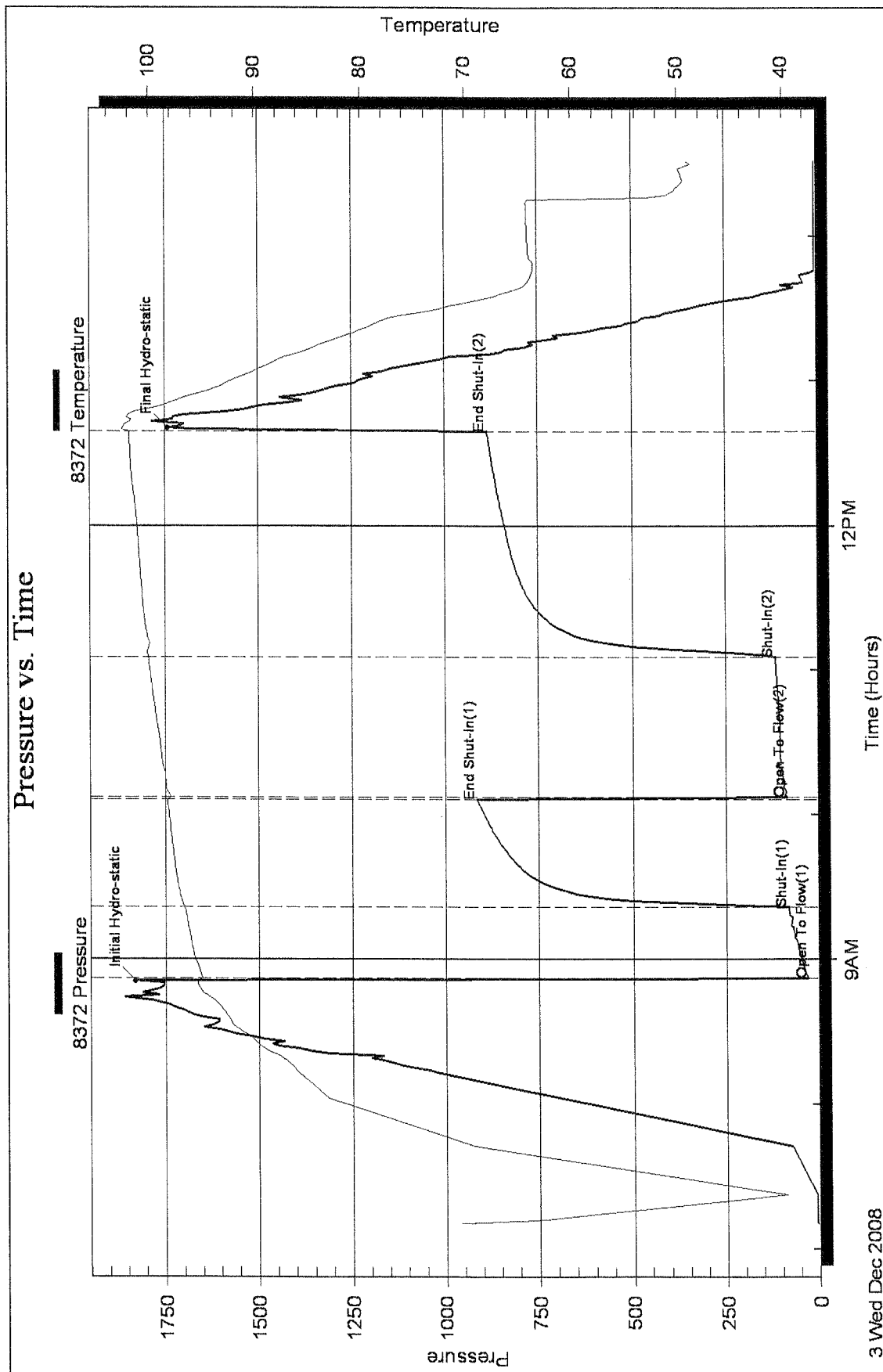
Serial #:

Laboratory Name:

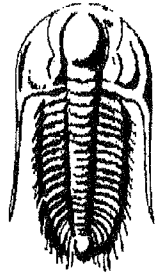
Laboratory Location:

Recovery Comments:

Pressure vs. Time



3 Wed Dec 2008



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita, KS 67202

ATTN: David Doyle

19-10-21 Graham Ks

Sears Mc Waller # 1-19

Start Date: 2008.12.03 @ 20:15:38

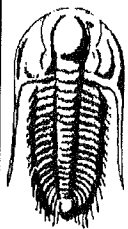
End Date: 2008.12.04 @ 01:57:38

Job Ticket #: 34353 DST #: 2

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: David Doyle

Sears Mc Waller # 1-19
19-10-21 Graham Ks
 Job Ticket: 34353 **DST#: 2**
 Test Start: 2008.12.03 @ 20:15:38

GENERAL INFORMATION:

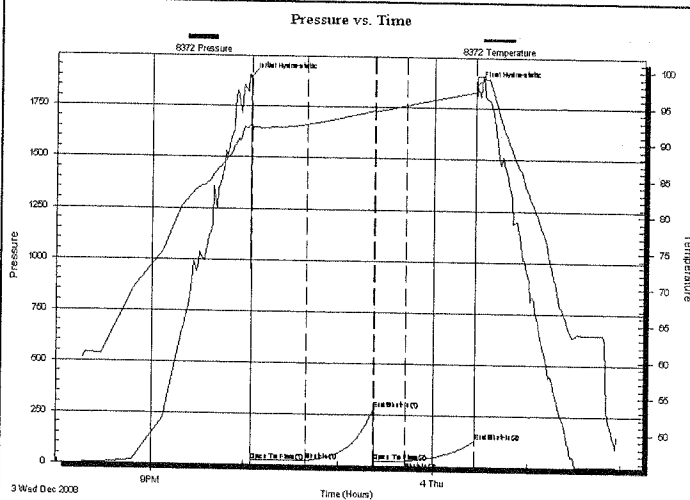
Formation: **J LKC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:04:38
 Time Test Ended: 01:57:38
 Interval: **3719.00 ft (KB) To 3743.00 ft (KB) (TVD)**
 Total Depth: 3743.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole
 Tester: Dan Bangle
 Unit No: 38
 Reference Elevations: 2262.00 ft (KB)
 2257.00 ft (CF)
 KB to GRVCF: 5.00 ft

Serial #: 8372 **Inside**
 Press@RunDepth: 24.94 psig @ 3720.00 ft (KB)
 Start Date: 2008.12.03 End Date: 2008.12.04
 Start Time: 20:15:39 End Time: 01:57:38

Capacity: 7000.00 psig
 Last Calib.: 2008.12.04
 Time On Btm: 2008.12.03 @ 22:04:08
 Time Off Btm: 2008.12.04 @ 00:26:38

TEST COMMENT: IF-Weak 1/2" blow died in 20 min
 FF-No blow



PRESSURE SUMMARY

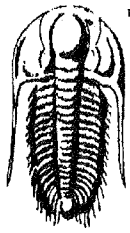
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1895.45	92.38	Initial Hydro-static
1	19.56	91.15	Open To Flow (1)
36	21.66	92.46	Shut-In(1)
78	276.26	94.50	End Shut-In(1)
79	21.24	94.37	Open To Flow (2)
99	24.94	95.24	Shut-In(2)
142	124.64	97.18	End Shut-In(2)
143	1865.48	99.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/ oil spots	0.05

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: David Doyle

Sears Mc Waller # 1-19
19-10-21 Graham Ks
Job Ticket: 34353 **DST#: 2**
Test Start: 2008.12.03 @ 20:15:38

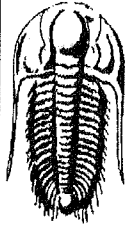
Tool Information

Drill Pipe:	Length: 3552.00 ft	Diameter: 3.80 inches	Volume: 49.83 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 50.57 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3719.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3699.00	
Shut In Tool	5.00			3704.00	
Hydraulic tool	5.00			3709.00	
Packer	5.00			3714.00	21.00 Bottom Of Top Packer
Packer	5.00			3719.00	
Stubb	1.00			3720.00	
Recorder	0.00	8372	Inside	3720.00	
Recorder	0.00	8368	Outside	3720.00	
Perforations	20.00			3740.00	
Bullnose	3.00			3743.00	24.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Sears Mc Waller # 1-19

250 N Water Ste 300
Wichita, KS 67202

19-10-21 Graham Ks

Job Ticket: 34353

DST#: 2

ATTN: David Doyle

Test Start: 2008.12.03 @ 20:15:38

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 6.39 in³

Resistivity: ohm.m

Salinity: 2400.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity:

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w / oil spots	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

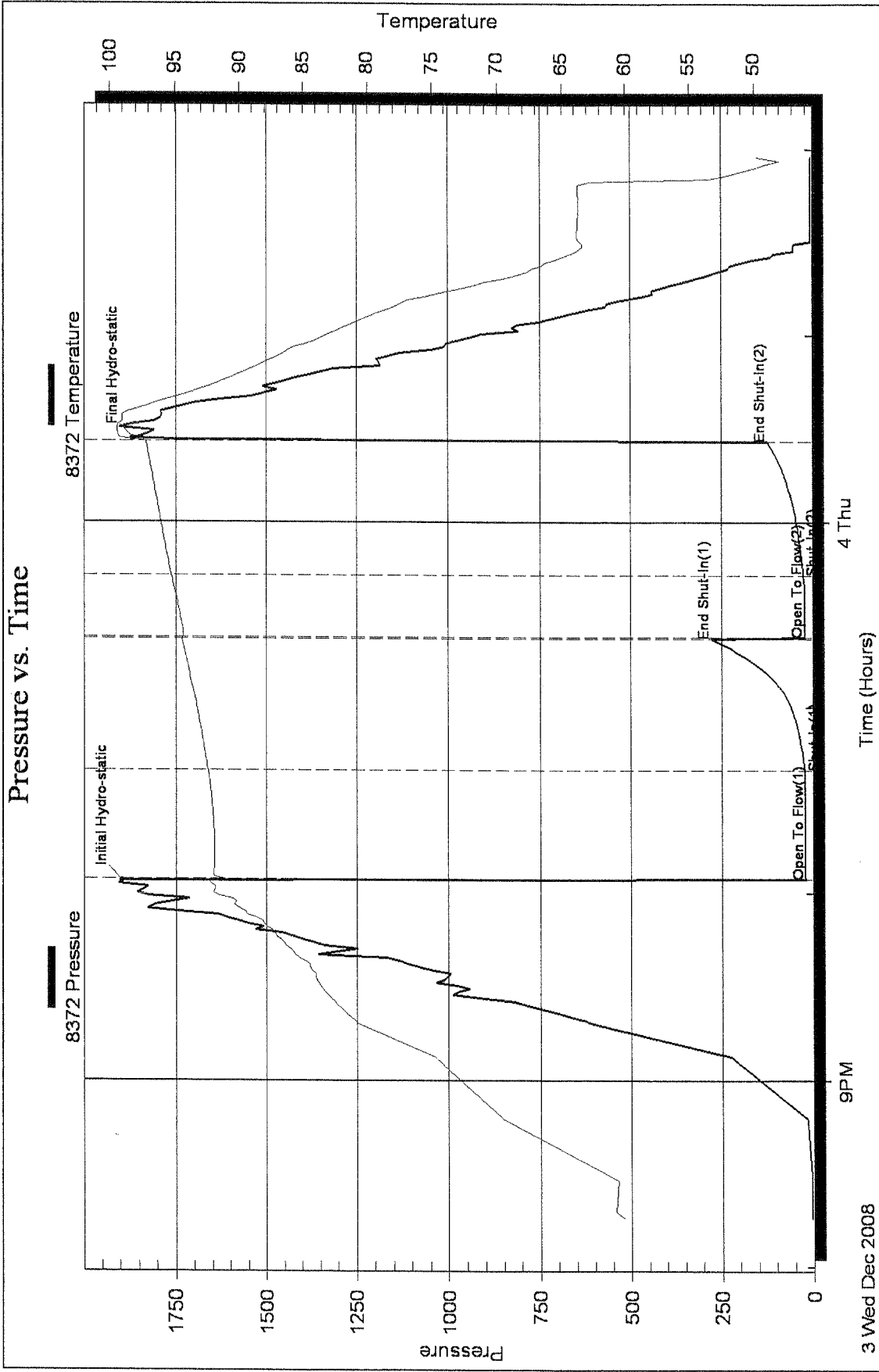
Serial #:

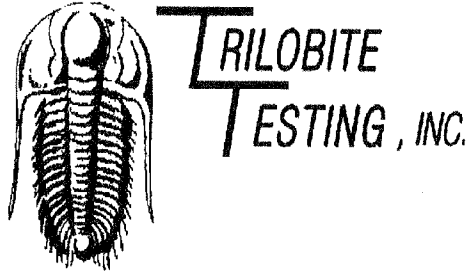
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita, KS 67202

ATTN: David Doyle

19-10-21 Graham Ks

Sears Mc Waller # 1-19

Start Date: 2008.12.04 @ 21:41:10

End Date: 2008.12.05 @ 03:42:40

Job Ticket #: 34354 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co Inc

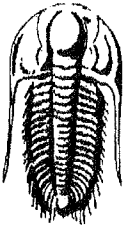
Sears Mc Waller # 1-19

19-10-21 Graham Ks

DST # 3

Arbuckle

2008.12.04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita, KS 67202
ATTN: David Doyle

Sears Mc Waller # 1-19

19-10-21 Graham Ks

Job Ticket: 34354

DST#: 3

Test Start: 2008.12.04 @ 21:41:10

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:30:40

Time Test Ended: 03:42:40

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3943.00 ft (KB) To 3953.00 ft (KB) (TVD)**

Total Depth: 3953.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2262.00 ft (KB)

2257.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8372 Inside

Press@RunDepth: 27.85 psig @ 3944.00 ft (KB)

Start Date: 2008.12.04

End Date:

2008.12.05

Capacity: 7000.00 psig

Last Calib.: 2008.12.05

Start Time: 21:41:11

End Time:

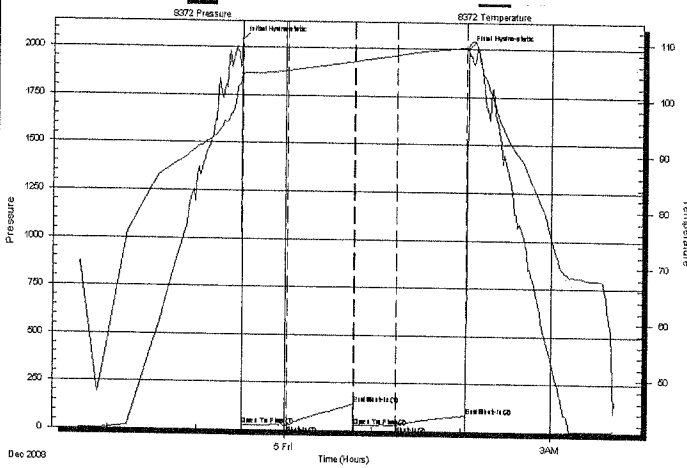
03:42:40

Time On Btm: 2008.12.04 @ 23:30:10

Time Off Btm: 2008.12.05 @ 02:04:10

TEST COMMENT: IF-Weak steady surface blow
FF-

Pressure vs. Time



PRESSURE SUMMARY

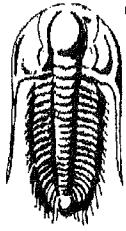
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2038.76	104.25	Initial Hydro-static
1	24.28	103.98	Open To Flow (1)
32	24.64	104.90	Shut-In(1)
77	138.58	106.60	End Shut-In(1)
78	26.20	106.61	Open To Flow (2)
106	27.85	107.78	Shut-In(2)
153	84.23	109.27	End Shut-In(2)
154	1999.68	109.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	DM	0.05

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: David Doyle

Sears Mc Waller # 1-19

19-10-21 Graham Ks

Job Ticket: 34354

DST#: 3

Test Start: 2008.12.04 @ 21:41:10

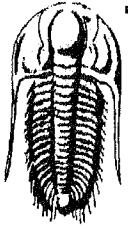
Tool Information

Drill Pipe:	Length: 3801.00 ft	Diameter: 3.80 inches	Volume: 53.32 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume:	54.06 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3943.00 ft			Final 54000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3923.00	
Shut In Tool	5.00			3928.00	
Hydraulic tool	5.00			3933.00	
Packer	5.00			3938.00	21.00 Bottom Of Top Packer
Packer	5.00			3943.00	
Stubb	1.00			3944.00	
Recorder	0.00	8372	Inside	3944.00	
Recorder	0.00	8368	Outside	3944.00	
Perforations	6.00			3950.00	
Bullnose	3.00			3953.00	10.00 Bottom Packers & Anchor
Total Tool Length:	31.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita, KS 67202
ATTN: David Doyle

Sears Mc Waller # 1-19
19-10-21 Graham Ks
Job Ticket: 34354 DST#: 3
Test Start: 2008.12.04 @ 21:41:10

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	DM	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

