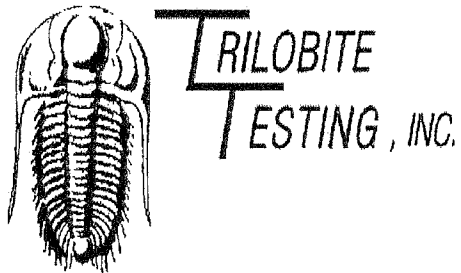


32-32s-12w



DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper. Co. LLC**

125 N. Market, Ste. 1000
Wichita, KS 67202

ATTN: Wes Hansen

32-32s-12w Barber KS

Sherry # 1

Start Date: 2004.12.19 @ 20:47:22

End Date: 2004.12.20 @ 05:31:37

Job Ticket #: 10010 DST #: 1

15-007-22863

W2 SW

1312 FSL 780 FWL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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CONSERVATION DIVISION
WICHITA, KS

Woolsey Oper. Co. LLC

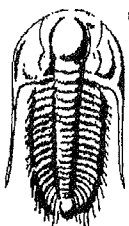
Sherry # 1

32-32s-12w Barber KS

DST # 1

Douglas Sand

2004.12.19



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Oper. Co. LLC

125 N. Market, Ste. 1000
Wichita, KS 67202

ATTN: Wes Hansen

Sherry # 1

32-32s-12w Barber KS

Job Ticket: 10010

DST#: 1

Test Start: 2004.12.19 @ 20:47:22

GENERAL INFORMATION:

Formation: Douglas Sand

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:35:22

Time Test Ended: 05:31:37

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: 3960.00 ft (KB) To 4010.00 ft (KB) (TVD)

Total Depth: 4010.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1824.00 ft (KB)

1813.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6755

Inside

Press@RunDepth: 189.88 psig @ 3961.00 ft (KB)

Start Date: 2004.12.19

End Date:

2004.12.20

Capacity: 7000.00 psig

Last Calib.: 2004.12.20

Start Time: 20:47:27

End Time:

05:31:37

Time On Btm: 2004.12.19 @ 22:30:07

Time Off Btm: 2004.12.20 @ 03:15:37

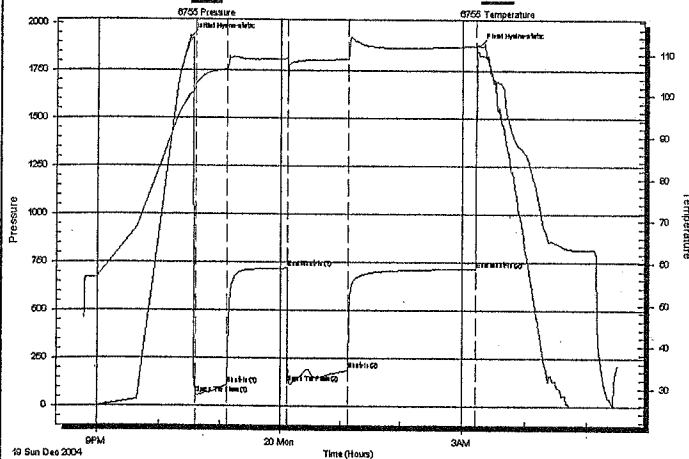
TEST COMMENT: IF: Strong blow . B.O.B. in 15 secs. GTS in 15 mins. (see gas flow report)

ISI: No blow .

FF: Strong blow . (see gas flow report)

FSI: No blow .

Pressure vs. Time



PRESSURE SUMMARY

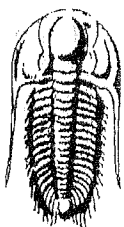
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1924.68	100.33	Initial Hydro-static
6	62.81	102.91	Open To Flow (1)
37	112.87	106.41	Shut-In(1)
96	717.88	109.00	End Shut-In(1)
97	120.43	102.27	Open To Flow (2)
157	189.88	108.90	Shut-In(2)
283	715.34	112.02	End Shut-In(2)
286	1881.15	110.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	GCM 15%g 85%w	1.54
190.00	MV 24%w 76%w R _w .14ohms @ 35 de2.67	

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	4.00	29.19
Last Gas Rate	0.50	23.00	252.29
Max. Gas Rate	0.38	47.00	224.92



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper. Co. LLC

125 N. Market, Ste. 1000
Wichita, KS 67202

ATTN: Wes Hansen

Sherry # 1

32-32s-12w Barber KS

Job Ticket: 10010

DST#: 1

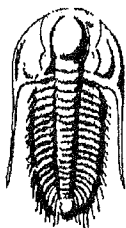
Test Start: 2004.12.19 @ 20:47:22

Tool Information

Drill Pipe:	Length: 3950.00 ft	Diameter: 3.80 inches	Volume: 55.41 bbl	Tool Weight:	2100.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	66000.00 lb
		Total Volume:	55.41 bbl	Tool Chased	10.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	43000.00 lb
Depth to Top Packer:	3960.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	77.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					
Slid tool 10ft to bottom					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3934.00	
Shut In Tool	5.00			3939.00	
Hydraulic tool	5.00			3944.00	
Jars	5.00			3949.00	
Safety Joint	2.00			3951.00	
Packer	4.00			3955.00	27.00 Bottom Of Top Packer
Packer	5.00			3960.00	
Stubb	1.00			3961.00	
Recorder	0.00	6755	Inside	3961.00	
Perforations	5.00			3966.00	
Change Over Sub	1.00			3967.00	
Blank Spacing	32.00			3999.00	
Change Over Sub	1.00			4000.00	
Perforations	5.00			4005.00	
Recorder	0.00	13222	Outside	4005.00	
Bullnose	5.00			4010.00	50.00 Bottom Packers & Anchor
Total Tool Length:	77.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper. Co. LLC

Sherry # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

32-32s-12w Barber KS

Job Ticket: 10010

DST#: 1

ATTN: Wes Hansen

Test Start: 2004.12.19 @ 20:47:22

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: 124000 ppm

Viscosity: 38.00 sec/qt

Cushion Volume:

bbl

Water Loss: 19.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	GCM 15%g 85%m	1.543
190.00	MW 24%m 76%w Rw .14ohms @ 35 deg.	2.665

Total Length: 300.00 ft

Total Volume: 4.208 bbl

Num Fluid Samples: 0

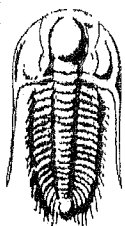
Num Gas Bombs: 1

Serial #: gp-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Woolsey Oper. Co. LLC

Sherry # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

32-32s-12w Barber KS

Job Ticket: 10010

DST#: 1

ATTN: Wes Hansen

Test Start: 2004.12.19 @ 20:47:22

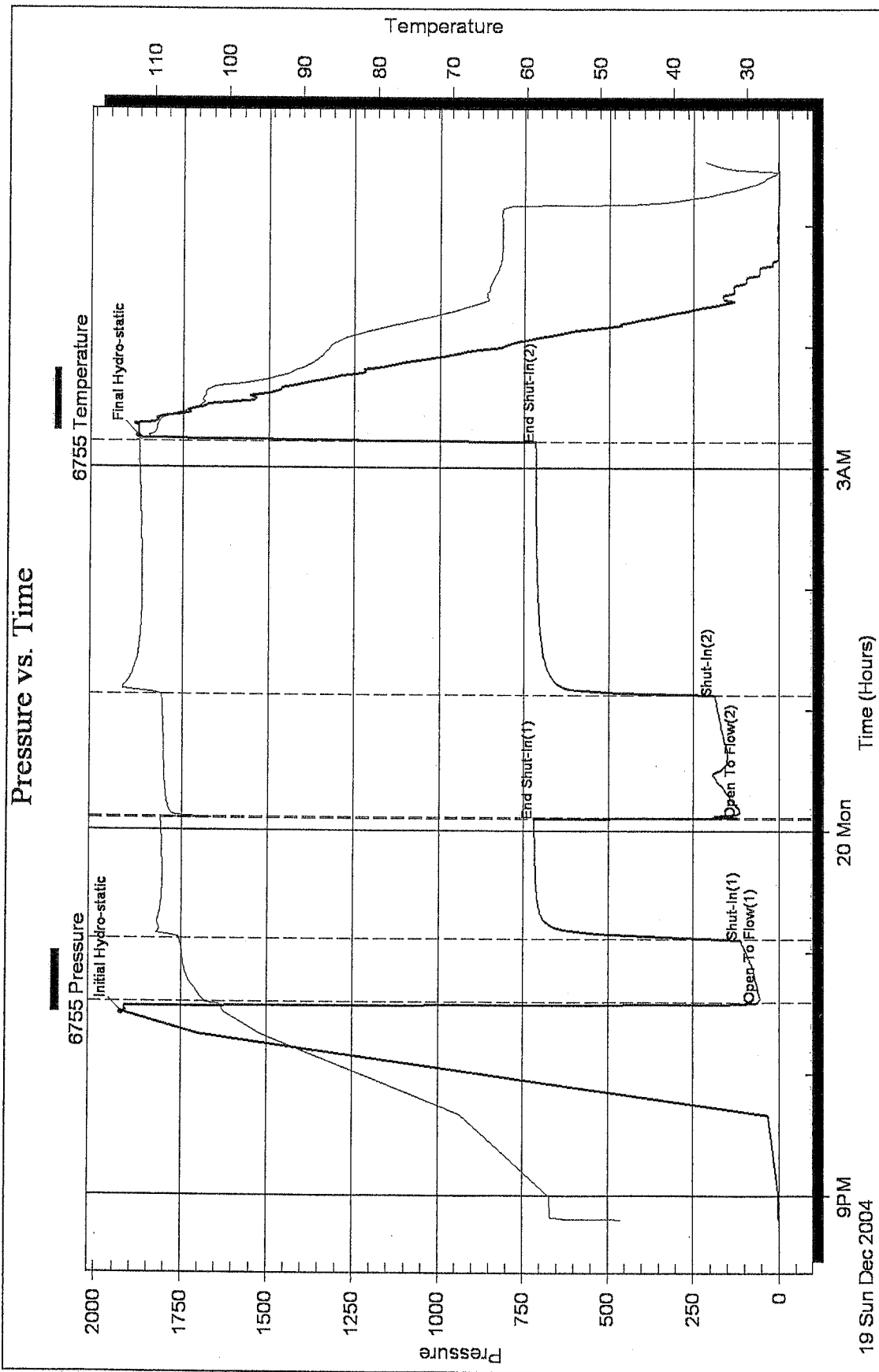
Gas Rates Information

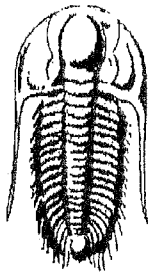
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	20	0.25	4.00	29.19
1	25	0.25	9.00	37.12
1	30	0.25	18.00	51.40
2	10	0.38	47.00	224.92
2	20	0.50	31.00	306.25
2	30	0.75	3.00	271.79
2	40	0.50	19.00	225.31
2	50	0.50	21.00	238.80
2	60	0.50	23.00	252.29

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper. Co. LLC**

125 N. Market, Ste. 1000
Wichita, KS 67202

ATTN: Wes Hansen

32-32s-12w Barber KS

Sherry # 1

Start Date: 2004.12.21 @ 06:18:41

End Date: 2004.12.21 @ 16:55:11

Job Ticket #: 19911

DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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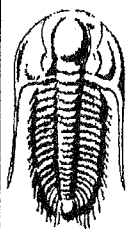
Sherry # 1

32-32s-12w Barber KS

DST # 2

Lansing " G "

2004.12.21



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Oper. Co. LLC

125 N. Market, Ste. 1000
Wichita, KS 67202

ATTN: Wes Hansen

Sherry # 1

32-32s-12w Barber KS

Job Ticket: 19911

DST#: 2

Test Start: 2004.12.21 @ 06:18:41

GENERAL INFORMATION:

Formation: **Lansing " G "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:49:26

Time Test Ended: 16:55:11

Test Type: Conventional Bottom Hole

Tester: Gary Fevotiaux

Unit No: 23

Interval: **4346.00 ft (KB) To 4378.00 ft (KB) (TVD)**

Total Depth: 4010.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1824.00 ft (KB)

1813.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6755

Inside

Press@RunDepth: 1564.43 psig @ 4347.00 ft (KB)

Start Date: 2004.12.21 End Date: 2004.12.21

Start Time: 06:18:46 End Time: 16:55:11

Capacity: 7000.00 psig

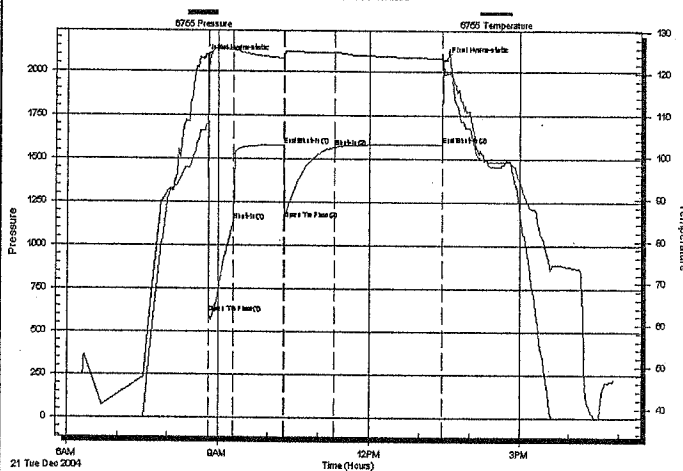
Last Calib.: 2004.12.21

Time On Btm: 2004.12.21 @ 08:43:56

Time Off Btm: 2004.12.21 @ 13:30:26

TEST COMMENT: IF: Strong blow . BOB 15 secs.
IS: Strong blow . BOB.
FF: Strong blow . BOB in 45 secs. GTS in 33 mins. TSTM
FS: Weak blow . 2"--- 4"

Pressure vs. Time



PRESSURE SUMMARY

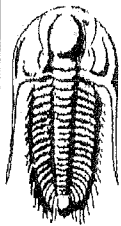
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2074.67	106.14	Initial Hydro-static
6	607.70	121.07	Open To Flow (1)
35	1137.90	125.65	Shut-In (1)
95	1577.81	123.60	End Shut-In (1)
95	1147.43	123.42	Open To Flow (2)
155	1564.43	124.94	Shut-In (2)
283	1581.10	123.66	End Shut-In (2)
287	2067.04	119.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	MW 30% m 70% w	1.26
3220.00	SW Rw .15 ohms @ 49 deg.	45.17

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper. Co. LLC

Sherry # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

32-32s-12w Barber KS

Job Ticket: 19911

DST#: 2

ATTN: Wes Hansen

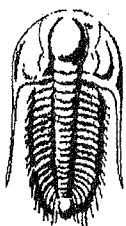
Test Start: 2004.12.21 @ 06:18:41

Tool Information

Drill Pipe:	Length: 4327.00 ft	Diameter: 3.80 inches	Volume: 60.70 bbl	Tool Weight:	2100.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	66000.00 lb	
			Total Volume:	60.70 bbl	Tool Chased	4.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	46000.00 lb	
Depth to Top Packer:	4346.00 ft			Final	61000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	32.00 ft					
Tool Length:	59.00 ft					
Number of Packers:	2	Diameter:	6.75 inches			
Tool Comments:						
Slid tool 4 ft. to btm.						

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4320.00	
Shut In Tool	5.00			4325.00	
Hydraulic tool	5.00			4330.00	
Jars	5.00			4335.00	
Safety Joint	2.00			4337.00	
Packer	4.00			4341.00	27.00 Bottom Of Top Packer
Packer	5.00			4346.00	
Stubb	1.00			4347.00	
Recorder	0.00	6755	Inside	4347.00	
Perforations	26.00			4373.00	
Recorder	0.00	13222	Outside	4373.00	
Bullnose	5.00			4378.00	32.00 Bottom Packers & Anchor

Total Tool Length: 59.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper. Co. LLC

Sherry # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

32-32s-12w Barber KS

Job Ticket: 19911

DST#: 2

ATTN: Wes Hansen

Test Start: 2004.12.21 @ 06:18:41

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:

75000 ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.09 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	MMV 30% m 70% w	1.262
3220.00	SW Rv .15 ohms @ 49 deg.	45.168

Total Length: 3310.00 ft

Total Volume: 46.430 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 2

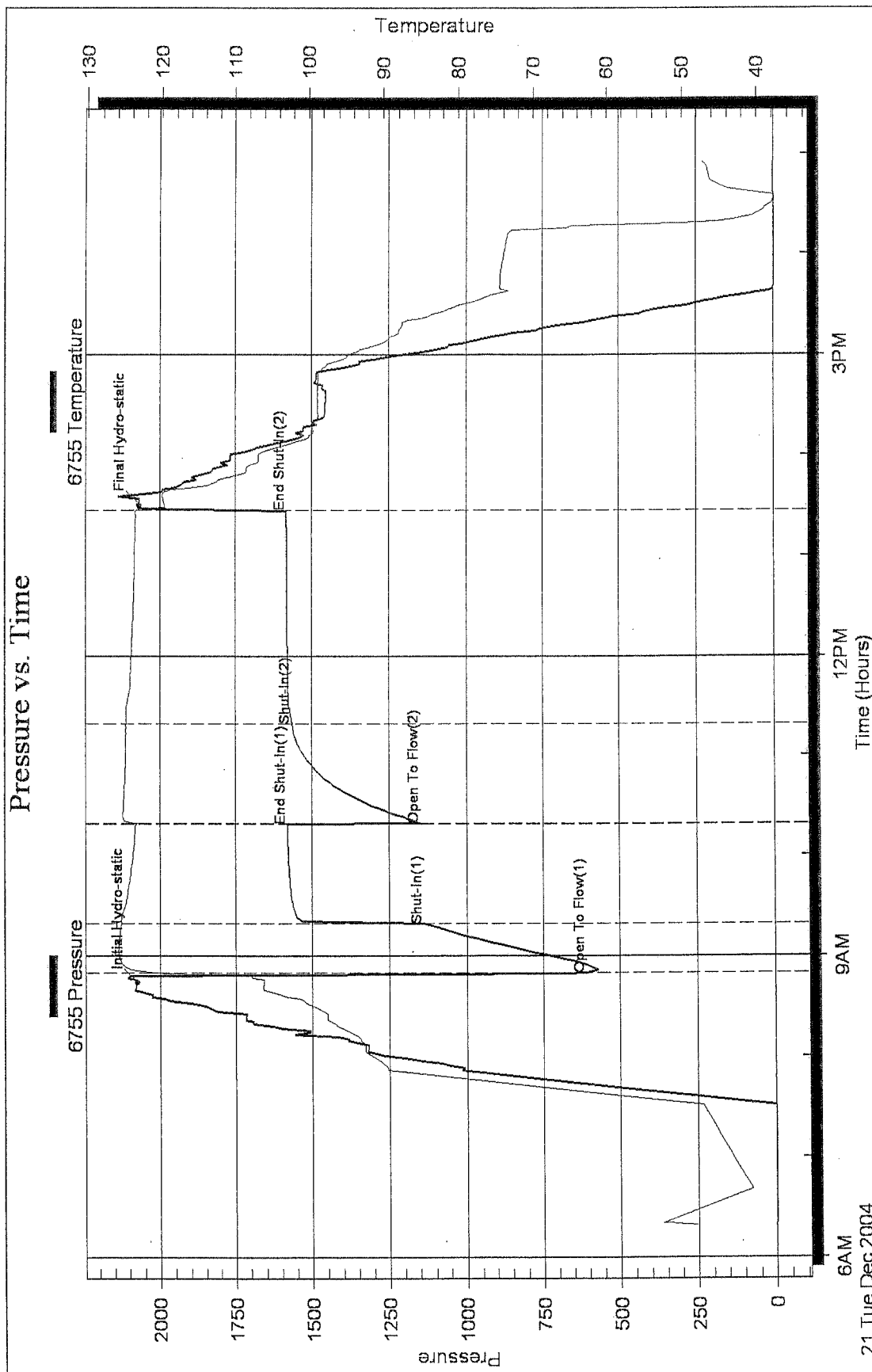
32-32s-12w Barber KS

Woolsey Oper. Co. LLC

Inside

Serial #: 6755

Pressure vs. Time



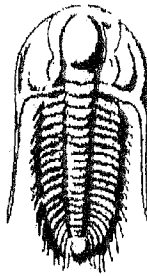
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OCT 22 2007

CONSERVATION DIVISION
WICHITA, KS

Ref. No: 19911

Trilobite Testing, Inc



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper. Co. LLC**

125 N. Market, Ste. 1000
Wichita, KS 67202

ATTN: Wes Hansen

32-32s-12w Barber KS

Sherry # 1

Start Date: 2004.12.27 @ 23:34:44

End Date: 2004.12.28 @ 09:41:59

Job Ticket #: 19912 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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CONSERVATION DIVISION
WICHITA, KS

Woolsey Oper. Co. LLC

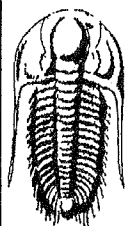
Sherry # 1

32-32s-12w Barber KS

DST # 3

Miss

2004.12.27



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Oper. Co. LLC

125 N. Market, Ste. 1000
Wichita, KS 67202

ATTN: Wes Hansen

Sherry # 1

32-32s-12w Barber KS

Job Ticket: 19912

DST#: 3

Test Start: 2004.12.27 @ 23:34:44

GENERAL INFORMATION:

Formation: Miss

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:52:29

Time Test Ended: 09:41:59

Test Type: Conventional Bottom Hole

Tester: Davy/Paul

Unit No: 23

Interval: 4654.00 ft (KB) To 4710.00 ft (KB) (TVD)

Total Depth: 4710.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1824.00 ft (KB)

1813.00 ft (CF)

KB to GRVCF: 11.00 ft

Serial #: 6755

Inside

Press@RunDepth: 440.89 psig @ 4658.00 ft (KB)

Start Date: 2004.12.27

End Date:

2004.12.28

Start Time: 23:34:49

End Time:

09:41:59

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.12.28 @ 01:48:44

Time Off Btm: 2004.12.28 @ 06:23:14

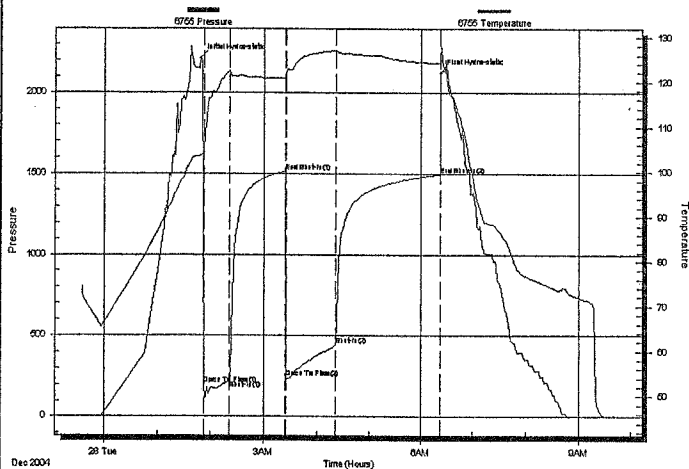
TEST COMMENT: IF- Strong blow bottom of bucket in 45 seconds

ISI- Strong --GTS 4 min

FF- Strong gauging gas

FSI- Strong

Pressure vs. Time



PRESSURE SUMMARY

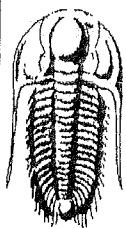
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2208.77	103.64	Initial Hydro-static
4	195.92	103.66	Open To Flow (1)
34	223.17	122.49	Shut-In (1)
96	1513.26	120.70	End Shut-In (1)
97	241.57	121.89	Open To Flow (2)
154	440.89	127.00	Shut-In (2)
275	1496.09	124.12	End Shut-In (2)
275	2121.70	124.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
434.00	SW	6.09
186.00	GSY O & MCW 15%g 15%o 55%w 15%l	2.61
124.00	GSY O & MCW 15%g 25%o 40%w 20%l	1.74
62.00	GSY O & SLOCM 20%g 10%o 70%w	0.87
62.00	GSY HO & WCM 10%g 30%o 10%w 50%l	0.87

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	7.00	8.01
Last Gas Rate	0.13	19.00	12.50
Max. Gas Rate	0.13	19.00	12.50



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper. Co. LLC

Sherry # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

32-32s-12w Barber KS

Job Ticket: 19912

DST#: 3

ATTN: Wes Hansen

Test Start: 2004.12.27 @ 23:34:44

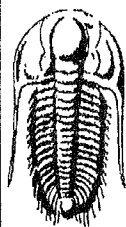
Tool Information

Drill Pipe:	Length: 4643.00 ft	Diameter: 3.80 inches	Volume: 65.13 bbl	Tool Weight:	2100.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	54000.00 lb	
			Total Volume:	65.13 bbl	Tool Chased	ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	50000.00 lb	
Depth to Top Packer:	4654.00 ft			Final	54000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	56.00 ft					
Tool Length:	83.00 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			4628.00	
Shut In Tool	5.00			4633.00	
Hydraulic tool	5.00			4638.00	
Jars	5.00			4643.00	
Safety Joint	2.00			4645.00	
Packer	4.00			4649.00	27.00 Bottom Of Top Packer
Packer	5.00			4654.00	
Stubb	1.00			4655.00	
Perforations	2.00			4657.00	
Change Over Sub	1.00			4658.00	
Recorder	0.00	6755	Inside	4658.00	
Blank Spacing	31.00			4689.00	
Change Over Sub	1.00			4690.00	
Perforations	15.00			4705.00	
Recorder	0.00	13222	Outside	4705.00	
Bullnose	5.00			4710.00	56.00 Bottom Packers & Anchor
Total Tool Length:	83.00				

OCT 27 2007



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper. Co. LLC

Sherry # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

32-32s-12w Barber KS

Job Ticket: 19912

DST#: 3

ATTN: Wes Hansen

Test Start: 2004.12.27 @ 23:34:44

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: 140000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
434.00	SW	6.088
186.00	GSY O & MCW 15%g 15%o 55%w 15%m	2.609
124.00	GSY O & MCW 15%g 25%o 40%w 20%m	1.739
62.00	GSY O & SLOCM 20%g 10%o 70%m	0.870
62.00	GSY HO & WCM 10%g 30%o 10%w 50%m	0.870

Total Length: 868.00 ft Total Volume: 12.176 bbl

Num Fluid Samples: 0

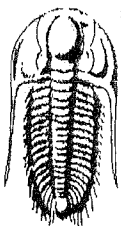
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.071 @ 60



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Woolsey Oper. Co. LLC

Sherry # 1

125 N. Market, Ste. 1000
Wichita, KS 67202

32-32s-12w Barber KS

Job Ticket: 19912

DST#: 3

ATTN: Wes Hansen

Test Start: 2004.12.27 @ 23:34:44

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.13	7.00	8.01
2	20	0.13	9.00	8.76
2	30	0.13	10.00	9.13
2	40	0.13	11.00	9.51
2	50	0.13	14.00	10.63
2	60	0.13	19.00	12.50

OCT 27 2007

234384

DST Test Number: 3

32-32s-12w Barber KS

Woolsey Oper. Co. LLC

Inside

Serial #: 6755

Pressure vs. Time

