



DRILL STEM TEST REPORT

Prepared For: **Woolsey Petl.Corp.**

125 N.Market Ste. 1000
Wichita KS

ATTN: Roger L. Martin

19-32s-12w Barber KS

Warren Fee #9

Start Date: 2001.09.19 @ 08:03:43

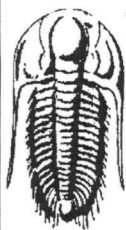
End Date: 2001.09.19 @ 19:40:42

Job Ticket #: 14970 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Petl. Corp.

125 N. Market Ste. 1000
Wichita KS

ATTN: Roger L. Martin

Warren Fee #9

19-32s-12w Barber KS

Job Ticket: 14970

DST#: 1

Test Start: 2001.09.19 @ 08:03:43

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:17:12

Time Test Ended: 19:40:42

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 13

Interval: 4445.00 ft (KB) To 4500.00 ft (KB) (TVD)

Total Depth: 4500.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1647.00 ft (KB)

1639.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 2342

Inside

Press@RunDepth: 33.48 psig @ 4446.00 ft (KB)

Start Date: 2001.09.19

End Date:

2001.09.19

Start Time: 08:03:43

End Time:

19:40:42

Capacity: 7000.00 psig

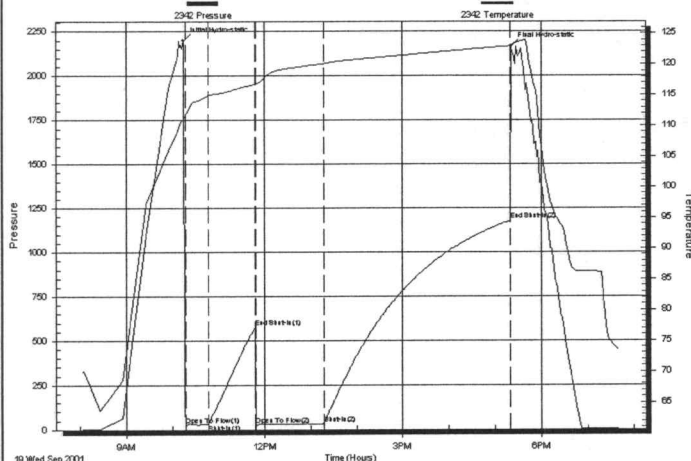
Last Calib.: 2001.09.05

Time On Btm: 2001.09.19 @ 10:14:42

Time Off Btm: 2001.09.19 @ 17:21:12

TEST COMMENT: IF: Stroing blow . B.O.B. in 45 secs.
IS: Weak blow . (slow increase to 2")
FF: Strong blow . B.O.B. in 5 secs.
FS: Weak blow . (1 - 1 1/2")

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.32	111.12	Initial Hydro-static
3	26.51	111.59	Open To Flow (1)
33	33.06	114.87	Shut-In(1)
93	576.32	116.77	End Shut-In(1)
94	23.74	116.79	Open To Flow (2)
182	33.48	120.07	Shut-In(2)
425	1179.18	122.96	End Shut-In(2)
427	2166.17	123.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	GCM with oil specs. 12%g 88%m	0.70
1650.00	Gas in pipe	23.15

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Petr. Corp.

125 N. Market Ste. 1000
Wichita KS

ATTN: Roger L. Martin

Warren Fee #9

19-32s-12w Barber KS

Job Ticket: 14970

DST#: 1

Test Start: 2001.09.19 @ 08:03:43

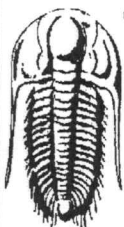
Tool Information

Drill Pipe:	Length: 4437.00 ft	Diameter: 3.80 inches	Volume: 62.24 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 62.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4445.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4419.00	
S.I. Tool	5.00			4424.00	
HMV	5.00			4429.00	
Jars	5.00			4434.00	
Safety Joint	2.00			4436.00	
Packer	4.00			4440.00	27.00 Bottom Of Top Packer
Packer	5.00			4445.00	
Stubb	1.00			4446.00	
Recorder	0.00	2342	Inside	4446.00	
Perforations	4.00			4450.00	
C.O. Sub	1.00			4451.00	
Blank Spacing	31.00			4482.00	
C.O. Sub	1.00			4483.00	
Perforations	12.00			4495.00	
Recorder	0.00	10248	Outside	4495.00	
Bullnose	5.00			4500.00	55.00 Bottom Packers & Anchor
Total Tool Length:	82.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Petll.Corp.

Warren Fee #9

125 N.Market Ste. 1000
Wichita KS

19-32s-12w Barber KS

Job Ticket: 14970

DST#: 1

ATTN: Roger L. Martin

Test Start: 2001.09.19 @ 08:03:43

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:

7000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	GCM w with oil specs. 12%g 88%m	0.701
1650.00	Gas in pipe	23.145

Total Length: 1700.00 ft Total Volume: 23.846 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

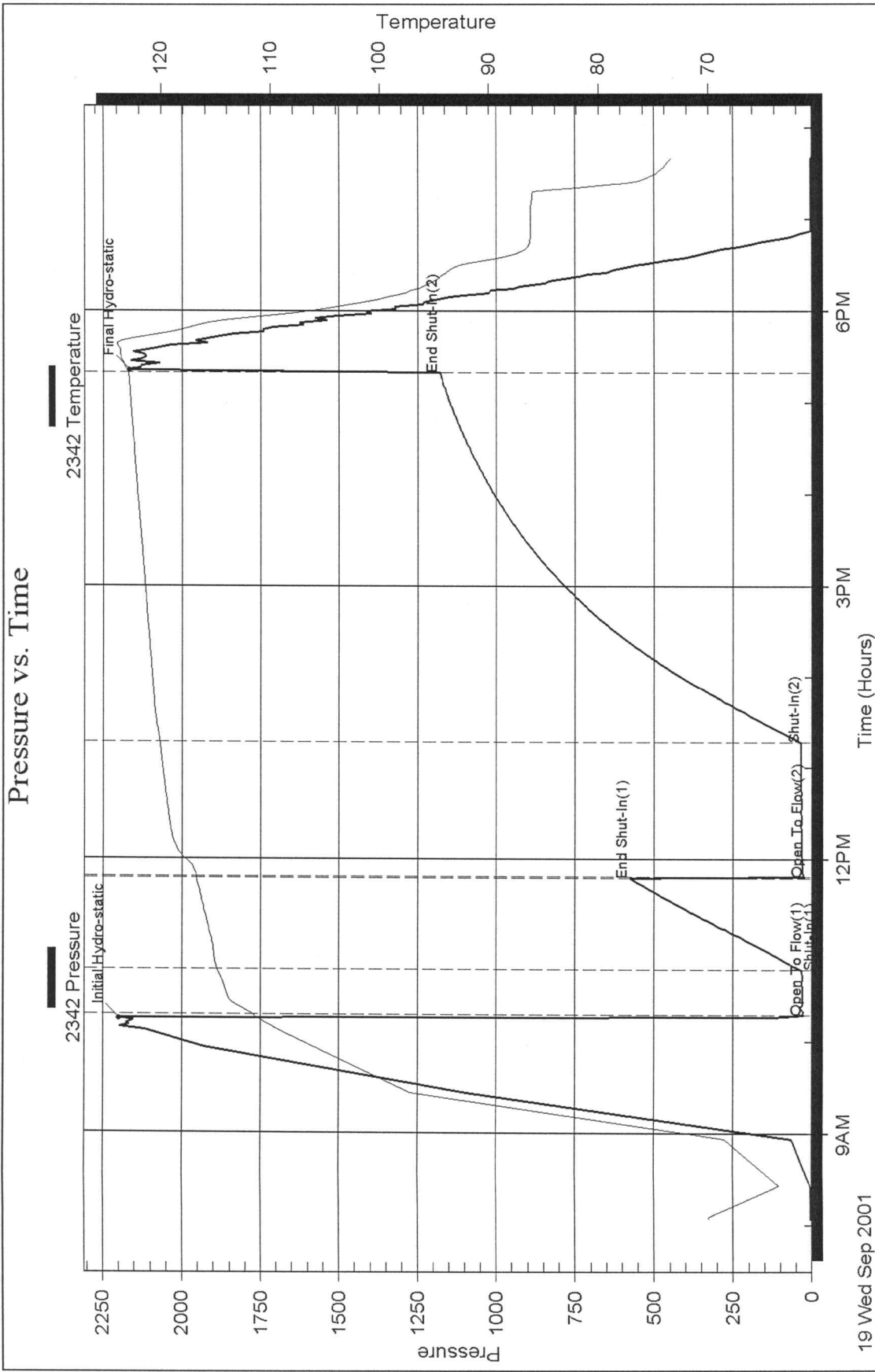
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Woolsey Petl.Corp.**

125 N.Market Ste. 1000
Wichita KS

ATTN: Roger L. Martin

19-32s-12w Barber KS

Warren Fee #9

Start Date: 2001.09.20 @ 22:06:13

End Date: 2001.09.21 @ 07:37:42

Job Ticket #: 14971 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

Woolsey Petr. Corp.

125 N. Market Ste. 1000
Wichita KS

ATTN: Roger L. Martin

Warren Fee #9

19-32s-12w Barber KS

Job Ticket: 14971

DST#: 2

Test Start: 2001.09.20 @ 22:06:13

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:01:42

Time Test Ended: 07:37:42

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 13

Interval: **4628.00 ft (KB) To 4765.00 ft (KB) (TVD)**

Total Depth: 4765.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1647.00 ft (KB)

1639.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 2342

Inside

Press@RunDepth: 29.03 psig @ 4629.00 ft (KB)

Start Date: 2001.09.20

End Date:

2001.09.21

Start Time: 22:06:13

End Time:

07:37:42

Capacity: 7000.00 psig

Last Calib.: 2001.09.17

Time On Btm: 2001.09.20 @ 23:58:42

Time Off Btm: 2001.09.21 @ 06:29:42

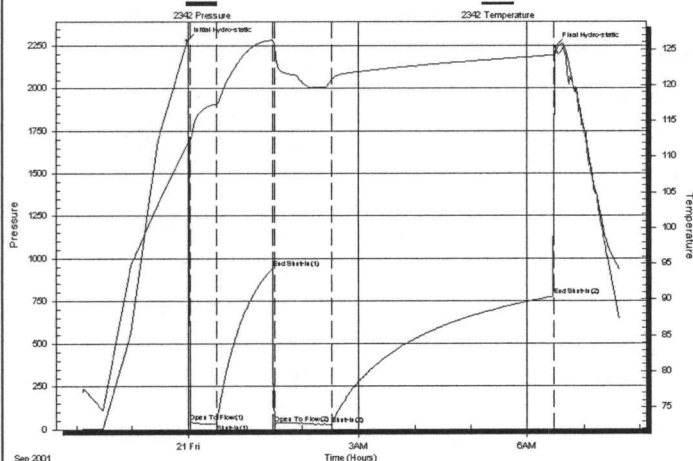
TEST COMMENT: IF: Strong blow . 2mins. B.O.B. G.T.S. in 26 mins.

I.S.I.: Weak blow . 1/2 - 1".

FF: Strong blow . see gas volume report.

FSI Weak blow . slow increase to 7".

Pressure vs. Time



PRESSURE SUMMARY

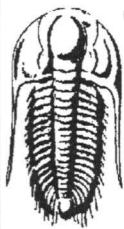
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2281.07	111.69	Initial Hydro-static
3	46.91	112.07	Open To Flow (1)
32	32.64	117.36	Shut-In (1)
91	941.58	126.34	End Shut-In (1)
93	31.63	125.62	Open To Flow (2)
153	29.03	120.76	Shut-In (2)
389	776.58	124.18	End Shut-In (2)
391	2244.72	124.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Drilg. mud	0.49
0.00	Gas in all fluid free pipe.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	4.00	6.89
Last Gas Rate	0.13	2.00	6.14
Max. Gas Rate	0.13	4.00	6.89



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Petl. Corp.

Warren Fee #9

125 N. Market Ste. 1000
Wichita KS

19-32s-12w Barber KS

Job Ticket: 14971

DST#: 2

ATTN: Roger L. Martin

Test Start: 2001.09.20 @ 22:06:13

Tool Information

Drill Pipe:	Length: 4625.00 ft	Diameter: 3.80 inches	Volume: 64.88 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 64.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4628.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	137.00 ft			
Tool Length:	164.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4602.00	
S.I. Tool	5.00			4607.00	
HMV	5.00			4612.00	
Jars	5.00			4617.00	
Safety Joint	2.00			4619.00	
Packer	4.00			4623.00	27.00 Bottom Of Top Packer
Packer	5.00			4628.00	
Stubb	1.00			4629.00	
Recorder	0.00	2342	Inside	4629.00	
Perforations	3.00			4632.00	
C.O. Sub	1.00			4633.00	
Blank Spacing	95.00			4728.00	
C.O. Sub	1.00			4729.00	
Perforations	31.00			4760.00	
Recorder	0.00	10248	Outside	4760.00	
Bullnose	5.00			4765.00	137.00 Bottom Packers & Anchor
Total Tool Length:		164.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Petl. Corp.

Warren Fee #9

125 N. Market Ste. 1000
Wichita KS

19-32s-12w Barber KS

Job Ticket: 14971

DST#: 2

ATTN: Roger L. Martin

Test Start: 2001.09.20 @ 22:06:13

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:

6000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	Drig.mud	0.491
0.00	Gas in all fluid free pipe.	0.000

Total Length: 35.00 ft

Total Volume: 0.491 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Woolsey Petl. Corp.

Warren Fee #9

125 N. Market Ste. 1000
Wichita KS

19-32s-12w Barber KS

Job Ticket: 14971

DST#: 2

ATTN: Roger L. Martin

Test Start: 2001.09.20 @ 22:06:13

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	5	0.13	4.00	6.89
2	10	0.13	4.00	6.89
2	15	0.13	4.00	6.89
2	20	0.13	4.00	6.89
2	25	0.13	4.00	6.89
2	30	0.13	4.00	6.89
2	35	0.13	3.00	6.51
2	40	0.13	3.00	6.51
2	45	0.13	3.00	6.51
2	50	0.13	3.00	6.51
2	55	0.13	2.00	6.14
2	60	0.13	2.00	6.14

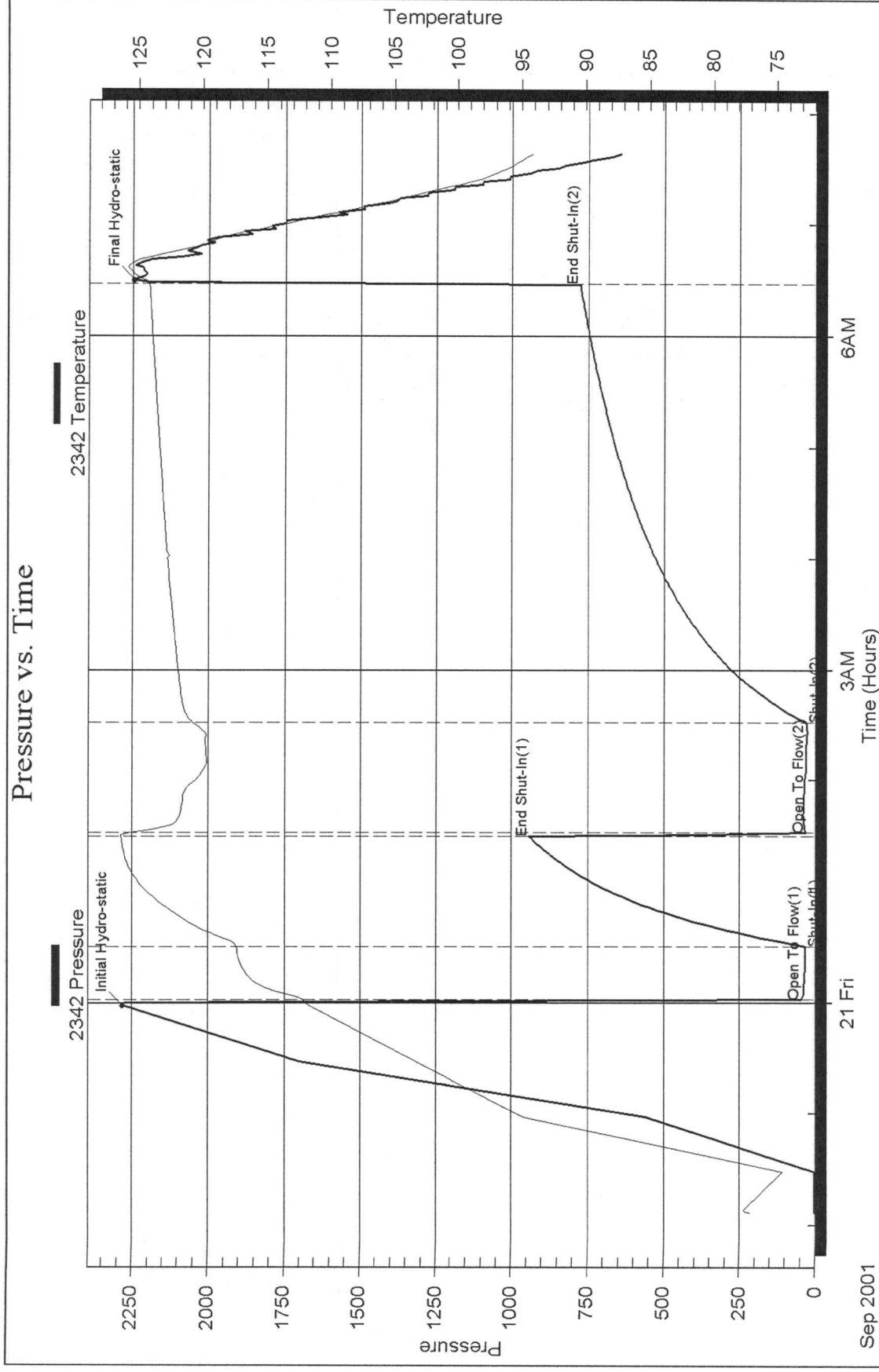
Serial #: 2342

Inside

Woolsey Petl. Corp.

19-32s-12w Barber KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Woolsey Petl.Corp.**

125 N.Market Ste. 1000
Wichita KS

ATTN: Roger L. Martin

19-32s-12w Barber KS

Warren Fee #9

Start Date: 2001.09.22 @ 02:05:07

End Date: 2001.09.22 @ 13:25:36

Job Ticket #: 14972 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Petl. Corp.

125 N. Market Ste. 1000
Wichita KS

ATTN: Roger L. Martin

Warren Fee #9

19-32s-12w Barber KS

Job Ticket: 14972

DST#: 3

Test Start: 2001.09.22 @ 02:05:07

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:59:06

Time Test Ended: 13:25:36

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 13

Interval: **4821.00 ft (KB) To 4873.00 ft (KB) (TVD)**

Total Depth: 4873.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1647.00 ft (KB)

1639.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 2342

Inside

Press@RunDepth: 999.40 psig @ 4822.00 ft (KB)

Start Date: 2001.09.22

End Date:

2001.09.22

Start Time: 02:05:07

End Time:

13:25:36

Capacity: 7000.00 psig

Last Calib.: 2001.09.17

Time On Btm: 2001.09.22 @ 03:57:06

Time Off Btm: 2001.09.22 @ 10:38:36

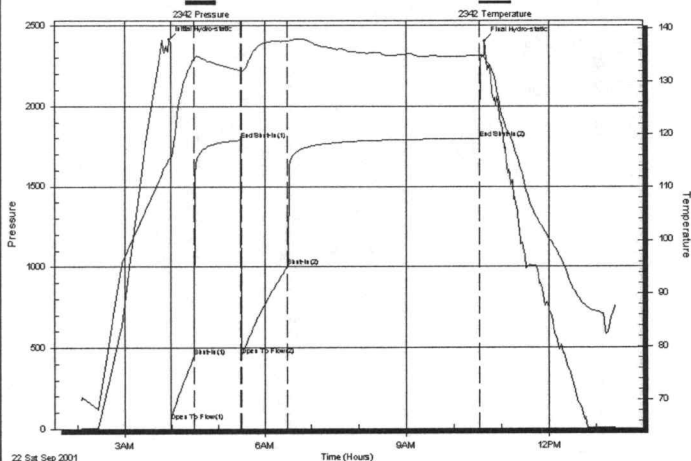
TEST COMMENT: IF: Strong blow B.O.B. in 3.5 mins

IS: Weak blow 1/2".

F.F: Strong blow B.O.B. in 5mins

FS: No blow.

Pressure vs. Time



PRESSURE SUMMARY

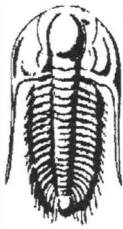
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2411.57	115.29	Initial Hydro-static
2	49.84	115.73	Open To Flow (1)
32	443.89	134.24	Shut-In(1)
93	1787.57	132.10	End Shut-In(1)
94	455.05	132.05	Open To Flow (2)
153	999.40	137.70	Shut-In(2)
395	1797.31	134.91	End Shut-In(2)
402	2402.17	134.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1585.00	SGCW R _w .068 @ 75 deg. F	22.23
370.00	MW 22% _m 78% _w	5.19
80.00	MW 50% _m 50% _w	1.12

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Petl.Corp.

125 N.Market Ste. 1000
Wichita KS

ATTN: Roger L. Martin

Warren Fee #9

19-32s-12w Barber KS

Job Ticket: 14972

DST#: 3

Test Start: 2001.09.22 @ 02:05:07

Tool Information

Drill Pipe:	Length: 4806.00 ft	Diameter: 3.80 inches	Volume: 67.42 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 67.42 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4821.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4795.00	
S.I. Tool	5.00			4800.00	
HMV	5.00			4805.00	
Jars	5.00			4810.00	
Safety Joint	2.00			4812.00	
Packer	4.00			4816.00	27.00 Bottom Of Top Packer
Packer	5.00			4821.00	
Stubb	1.00			4822.00	
Recorder	0.00	2342	Inside	4822.00	
Perforations	3.00			4825.00	
C.O. Sub	1.00			4826.00	
Blank Spacing	31.00			4857.00	
C.O. Sub	1.00			4858.00	
Perforations	10.00			4868.00	
Recorder	0.00	10248	Outside	4868.00	
Bullnose	5.00			4873.00	52.00 Bottom Packers & Anchor
Total Tool Length:	79.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Petl. Corp.

Warren Fee #9

125 N. Market Ste. 1000
Wichita KS

19-32s-12w Barber KS

Job Ticket: 14972

DST#: 3

ATTN: Roger L. Martin

Test Start: 2001.09.22 @ 02:05:07

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: 116000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1585.00	SGCW Rw .068 @ 75 deg. F	22.233
370.00	MW 22%m 78%w	5.190
80.00	MW 50%m 50%w	1.122

Total Length: 2035.00 ft

Total Volume: 28.545 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 2342

Inside Woodsey Petl.Corp.

19-32s-12w Barber KS

DST Test Number: 3

