

DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co**

125 N Market Ste 1000
Wichita KS 67202

ATTN: Corry Tinsmon

8 33S10W Barber KS

Tucker #1

Start Date: 2007.09.06 @ 02:54:14

End Date: 2007.09.06 @ 14:19:44

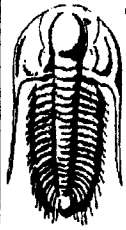
Job Ticket #: 28398 DST #: 1

CONFIDENTIAL
DEC 27 2007
KCC

RECEIVED
KANSAS CORPORATION COMMISSION

DEC 27 2007
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

Woolsey Operating Co

125 N Market Ste 1000
Wichita KS 67202

ATTN: Corry Tinsmon

Tucker #1

8 33S10W Barber KS

Job Ticket: 28398

DST#: 1

Test Start: 2007.09.06 @ 02:54:14

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:12:44

Time Test Ended: 14:19:44

Interval: **4594.00 ft (KB) To 4638.00 ft (KB) (TVD)**

Total Depth: 4638.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 24

Reference Elevations: 1616.00 ft (KB)

1607.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6752

Inside

Press@RunDepth: 135.29 psig @ 4595.00 ft (KB)

Start Date: 2007.09.06

End Date: 2007.09.06

Start Time: 02:54:19

End Time: 14:19:44

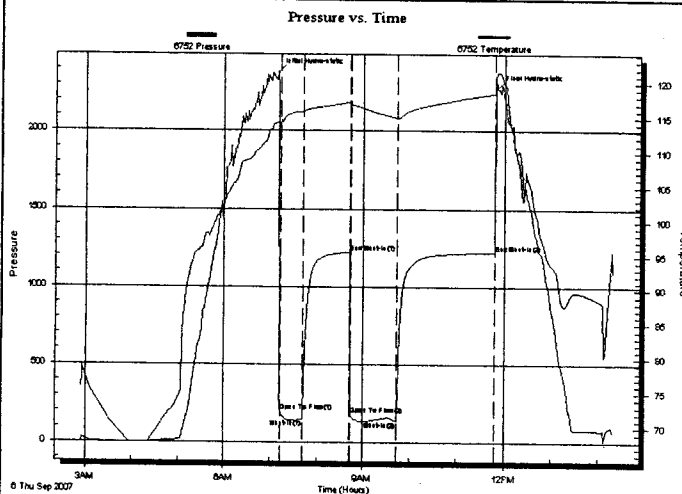
Capacity: 7000.00 psig

Last Calib.: 2007.09.06

Time On Btm: 2007.09.06 @ 07:09:44

Time Off Btm: 2007.09.06 @ 11:50:59

TEST COMMENT: IF Strong Blow BOB in 1 min GTS in 27 min
ISI Bled Off No Blow back
FF Strong Blow BOB and GTS Immediate, Took Gas Sample
FSI Bled Off No Blow back



PRESSURE SUMMARY

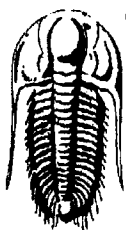
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2372.64	114.34	Initial Hydro-static
3	197.39	113.90	Open To Flow (1)
33	145.21	115.84	Shut-In(1)
93	1220.59	117.25	End Shut-In(1)
94	177.78	116.93	Open To Flow (2)
154	135.29	114.95	Shut-In(2)
279	1220.24	118.51	End Shut-In(2)
282	2276.60	121.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4496 Feet GIP	0.00
90.00	GCM 20%G 80%M	1.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	21.00	56.16
Last Gas Rate	0.50	20.00	232.05
Max. Gas Rate	0.25	58.00	114.86



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co

Tucker #1

125 N Market Ste 1000
Wichita KS 67202

8 33S10W Barber KS

Job Ticket: 28398

DST#: 1

ATTN: Corry Tinsmon

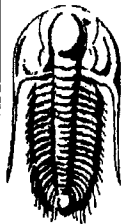
Test Start: 2007.09.06 @ 02:54:14

Tool Information

Drill Pipe:	Length: 4558.00 ft	Diameter: 3.80 inches	Volume: 63.94 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: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	80000.00 lb
		Total Volume:	64.08 bbl	Tool Chased	ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4594.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	44.00 ft				
Tool Length:	73.00 ft				
Number of Packers:	2	Diameter:	7.88 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating sub	1.00			4566.00	
Change Over Sub	1.00			4567.00	
Shut In Tool	5.00			4572.00	
Hydraulic tool	5.00			4577.00	
Jars	5.00			4582.00	
Safety Joint	3.00			4585.00	
Packer	5.00			4590.00	29.00 Bottom Of Top Packer
Packer	4.00			4594.00	
Stubb	1.00			4595.00	
Recorder	0.00	6752	Inside	4595.00	
Perforations	8.00			4603.00	
Drill Pipe	32.00			4635.00	
Recorder	0.00	6704	Outside	4635.00	
Bullnose	3.00			4638.00	44.00 Bottom Packers & Anchor

Total Tool Length: 73.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

Tucker #1

125 N Market Ste 1000
Wichita KS 67202

8 33S10W Barber KS

Job Ticket: 28398

DST#: 1

ATTN: Corry Tinsmon

Test Start: 2007.09.06 @ 02:54:14

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.96 in³

Resistivity: ohm.m

Salinity: 6000.00 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
0.00	4496 Feet GIP	0.000
90.00	GCM 20%G 80%M	1.007

Total Length: 90.00 ft

Total Volume: 1.007 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating Co

Tucker #1

125 N Market Ste 1000
Wichita KS 67202

8 33S10W Barber KS

Job Ticket: 28398

DST#: 1

ATTN: Corry Tinsmon

Test Start: 2007.09.06 @ 02:54:14

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	0.25	21.00	56.16
2	20	0.25	33.00	75.20
2	30	0.25	48.00	98.99
2	40	0.25	58.00	114.86
2	60	0.50	20.00	232.05

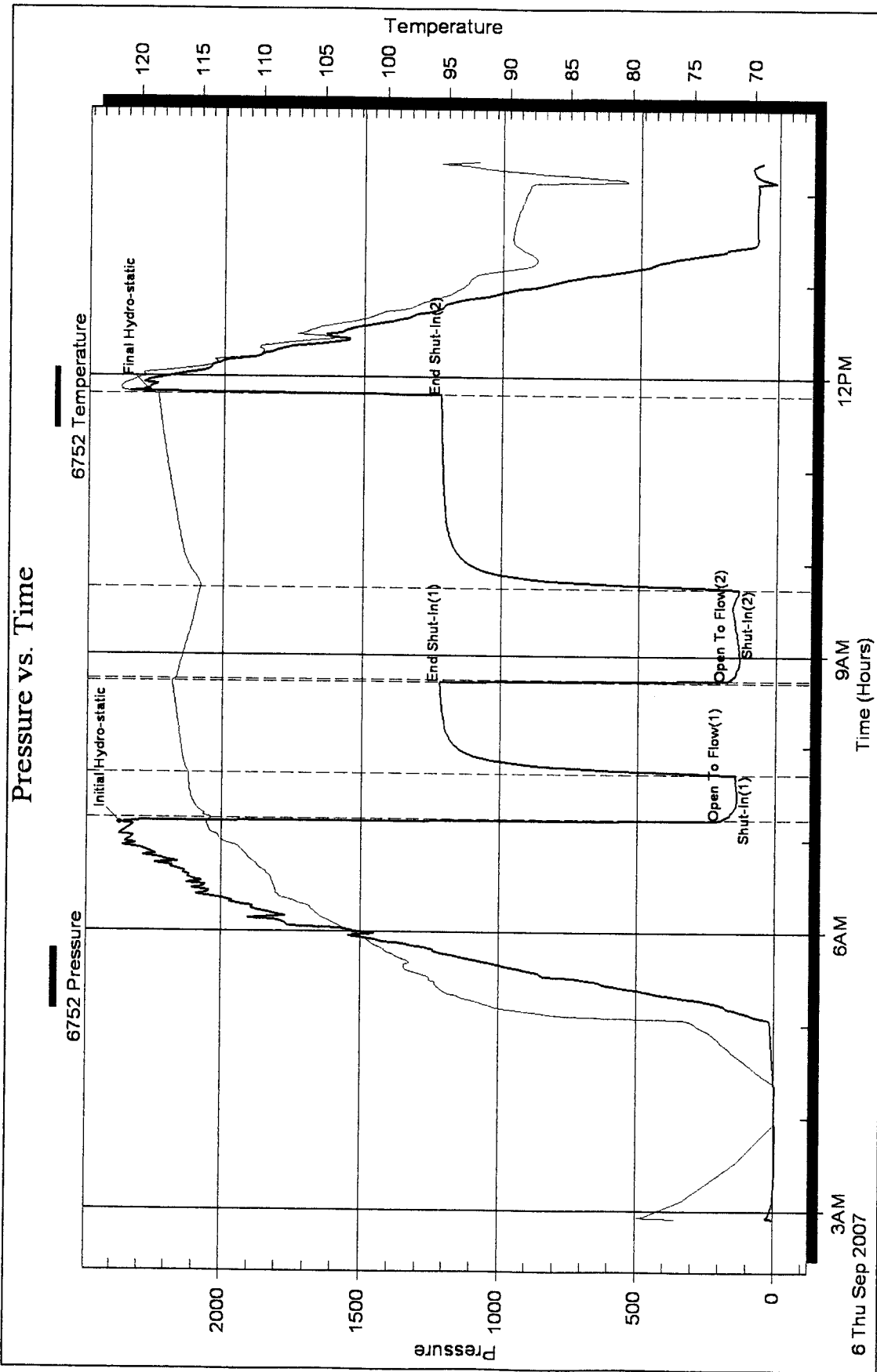
Serial #: 6752

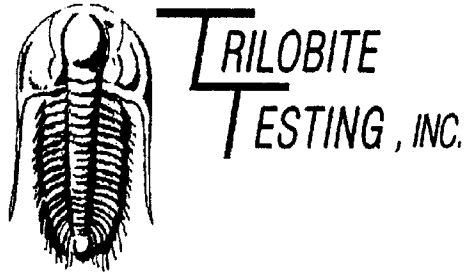
Inside

Woodsey Operating Co

8 33S10W Barber KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co**

125 N Market Ste 1000
Wichita KS 67202

ATTN: Corry Tinsmon

8 33S10W Barber KS

Tucker #1

Start Date: 2007.09.07 @ 01:37:13

End Date: 2007.09.07 @ 12:19:28

Job Ticket #: 28399 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 Operating Co

125 N Market Ste 1000
Wichita KS 67202

ATTN: Corry Tinsmon

Tucker #1

8 33S10W Barber KS

Job Ticket: 28399

DST#: 2

Test Start: 2007.09.07 @ 01:37:13

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:54:43

Time Test Ended: 12:19:28

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 24

Interval: **4654.00 ft (KB) To 4682.00 ft (KB) (TVD)**

Total Depth: 4682.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1616.00 ft (KB)

1607.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6752

Inside

Press@RunDepth: 409.86 psig @ 4655.00 ft (KB)

Start Date: 2007.09.07

End Date: 2007.09.07

Capacity: 7000.00 psig

Last Calib.: 2007.09.07

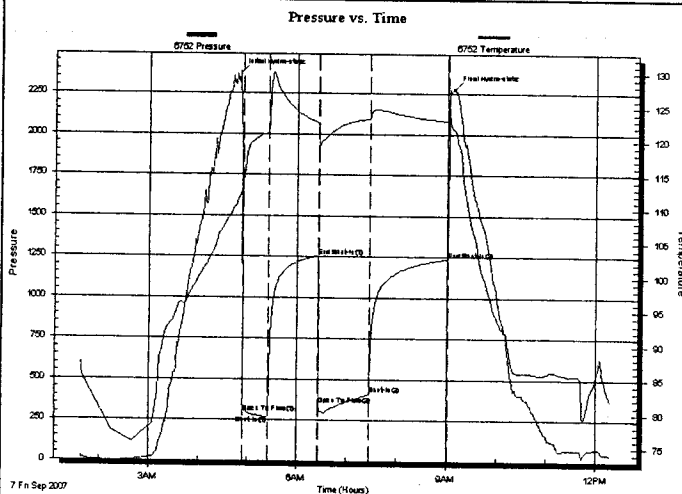
Start Time: 01:37:18

End Time: 12:19:28

Time On Btm: 2007.09.07 @ 04:51:28

Time Off Btm: 2007.09.07 @ 09:08:58

TEST COMMENT: IF Strong Blow BOB in 20 seconds GTS in 23 minutes
ISI Bled Off Blow back Built To 5 inches
FF Strong Blow BOB and GTS Immediate Gauged Gas
FSI Bled Off Blow back Built To 3 inches



PRESSURE SUMMARY

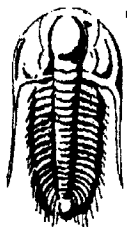
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2377.11	112.08	Initial Hydro-static
4	294.02	114.38	Open To Flow (1)
34	272.62	121.19	Shut-In(1)
94	1254.63	122.71	End Shut-In(1)
95	345.73	119.34	Open To Flow (2)
157	409.86	123.29	Shut-In(2)
250	1237.01	122.98	End Shut-In(2)
258	2280.33	121.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3979 Feet GIP	0.00
180.00	G Salt W 10%G 90%W	2.27
490.00	GWOCM 15%G 10%W 15%O 60%M	6.87

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	15.00	46.64
Last Gas Rate	0.25	33.00	75.20
Max. Gas Rate	0.25	35.00	78.37



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co

125 N Market Ste 1000
Wichita KS 67202

ATTN: Corry Tinsmon

Tucker #1

8 33S10W Barber KS

Job Ticket: 28399

DST#: 2

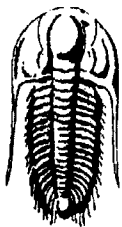
Test Start: 2007.09.07 @ 01:37:13

Tool Information

Drill Pipe:	Length: 4621.00 ft	Diameter: 3.80 inches	Volume: 64.82 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: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume:	64.96 bbl	Tool Chased ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4654.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter:	7.88 inches	
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating sub	1.00			4626.00	
Change Over Sub	1.00			4627.00	
Shut In Tool	5.00			4632.00	
Hydraulic tool	5.00			4637.00	
Jars	5.00			4642.00	
Safety Joint	3.00			4645.00	
Packer	5.00			4650.00	29.00 Bottom Of Top Packer
Packer	4.00			4654.00	
Stubb	1.00			4655.00	
Recorder	0.00	6752	Inside	4655.00	
Perforations	24.00			4679.00	
Recorder	0.00	6704	Outside	4679.00	
Bullnose	3.00			4682.00	28.00 Bottom Packers & Anchor

Total Tool Length: 57.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

Tucker #1

125 N Market Ste 1000
Wichita KS 67202

8 33S10W Barber KS

Job Ticket: 28399

DST#: 2

ATTN: Corry Tinsmon

Test Start: 2007.09.07 @ 01:37:13

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 9.98 in³

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

deg API

Water Salinity: 36000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3979 Feet GIP	0.000
180.00	G Salt W 10%G 90%W	2.270
490.00	GWOCM 15%G 10%W 15%O 60%M	6.873

Total Length: 670.00 ft

Total Volume: 9.143 bbl

Num Fluid Samples: 0

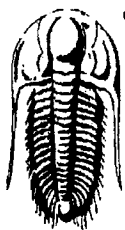
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating Co

Tucker #1

125 N Market Ste 1000
Wichita KS 67202

8 33S10W Barber KS

Job Ticket: 28399

DST#: 2

ATTN: Corry Tinsmon

Test Start: 2007.09.07 @ 01:37:13

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 (m³/d)
1	30	0.25	15.00	46.64
2	10	0.25	30.00	70.44
2	20	0.25	35.00	78.37
2	30	0.25	35.00	78.37
2	40	0.25	34.00	76.78
2	50	0.25	33.00	75.20
2	60	0.25	33.00	75.20

Serial #: 6752

Inside

Woodsey Operating Co

8 33S10W Barber KS

DST Test Number: 2

