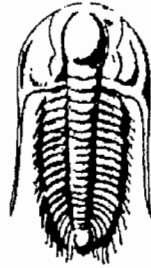


RECEIVED
KANSAS CORPORATION COMMISSION

NOV 15 2004

CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

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

ATTN: Mikeal Maune

2-34s-11w Barber Ks.

Powell A-3

Start Date: 2004.07.19 @ 21:54:15

End Date: 2004.07.20 @ 06:38:15

Job Ticket #: 19168 DST #: 1

**RELEASED
FROM
CONFIDENTIAL**

KCC

NOV 15 2004

CONFIDENTIAL

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Woolsey Oper.Co.LLC

Spicer #1

2-34s-11w Barber Ks.

DST # 1

Elgin Sd.

2004.07.19



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Oper.Co.LLC
 125 N.Market,Ste. 1000
 Wichita Ks. 67202
 ATTN: Mikeal Maune

Spicer #1
Dovelle P-3
2-34s-11w Barber Ks.
 Job Ticket: 19168 **DST#: 1**
 Test Start: 2004.07.19 @ 21:54:15

GENERAL INFORMATION:

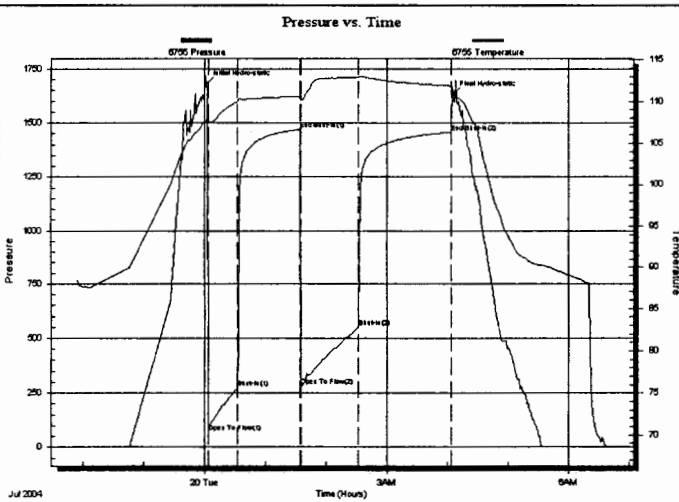
Formation: **Elgin Sd.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:04:00
 Time Test Ended: 06:38:15
 Interval: **3446.00 ft (KB) To 3510.00 ft (KB) (TVD)**
 Total Depth: 3510.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole
 Tester: Gary Pevoteaux
 Unit No: 23
 Reference Elevations: 1427.00 ft (KB)
 1416.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6755

Inside

Press@RunDepth: 550.11 psig @ 3447.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2004.07.19 End Date: 2004.07.20 Last Calib.: 2004.07.20
 Start Time: 21:54:20 End Time: 06:38:15 Time On Btm: 2004.07.20 @ 00:02:00
 Time Off Btm: 2004.07.20 @ 04:05:15

TEST COMMENT: IF:Strong blow . B.O.B. in 3 mins.
 IS:No blow .
 FF:Fair to strong blow . B.O.B. in 9 mins.
 FS:No blow .



PRESSURE SUMMARY

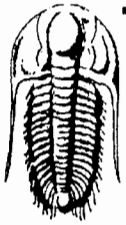
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.34	107.77	Initial Hydro-static
2	69.65	107.50	Open To Flow (1)
31	272.72	109.98	Shut-In(1)
93	1470.19	110.54	End Shut-In(1)
93	281.05	110.08	Open To Flow (2)
151	550.11	112.84	Shut-In(2)
242	1458.12	111.86	End Shut-In(2)
244	1630.73	111.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
640.00	Salt water Rw .055 ohms @ 74 deg.	7.88
480.00	WM 27%w 73%r	6.73

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper.Co.LLC

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

ATTN: Mikeal Maune

Spicer #4

Power P 3
2-34s-11w Barber Ks.

Job Ticket: 19168

DST#: 1

Test Start: 2004.07.19 @ 21:54:15

Tool Information

Drill Pipe:	Length: 3306.00 ft	Diameter: 3.80 inches	Volume: 46.37 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 46.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3446.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	91.00 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			3420.00	
Shut In Tool	5.00			3425.00	
Hydraulic tool	5.00			3430.00	
Jars	5.00			3435.00	
Safety Joint	2.00			3437.00	
Packer	4.00			3441.00	27.00 Bottom Of Top Packer
Packer	5.00			3446.00	
Stubb	1.00			3447.00	
Recorder	0.00	6755	Inside	3447.00	
Perforations	25.00			3472.00	
Change Over Sub	1.00			3473.00	
Blank Spacing	31.00			3504.00	
Change Over Sub	1.00			3505.00	
Recorder	0.00	13222	Outside	3505.00	
Bullnose	5.00			3510.00	64.00 Bottom Packers & Anchor

Total Tool Length: 91.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper.Co.LLC

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

ATTN: Mikeal Maune

~~Spicer #1~~

Dowell A-3

2-34s-11w Barber Ks.

Job Ticket: 19168

DST#: 1

Test Start: 2004.07.19 @ 21:54:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 12.58 in³

Resistivity: 0.00 ohm.m

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 133000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
640.00	Salt water Rw .055 ohms @ 74 deg.	7.884
480.00	WM 27%w 73%w	6.733

Total Length: 1120.00 ft

Total Volume: 14.617 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

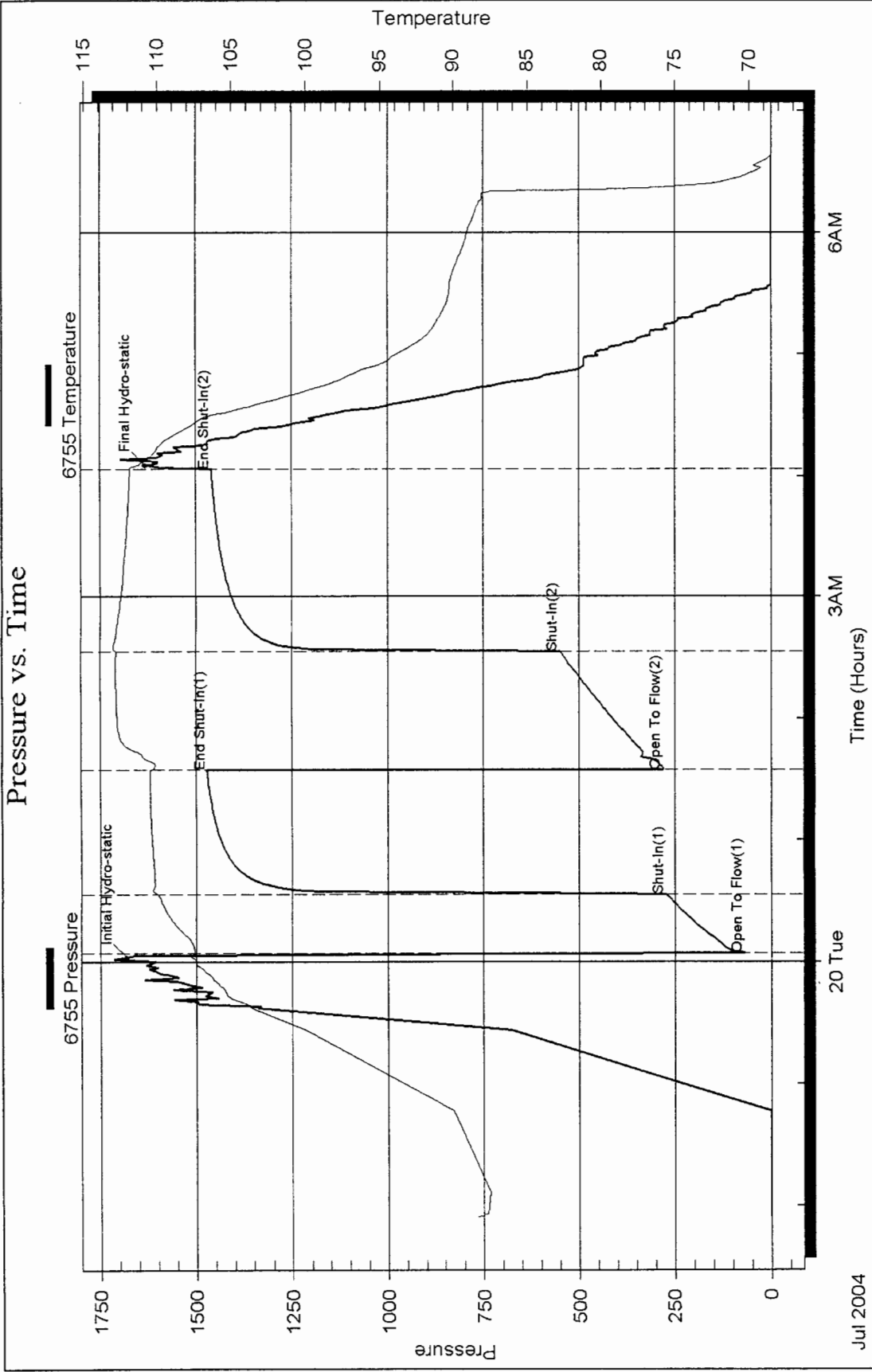
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

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

ATTN: Mikeal Maune

2-34s-11w Barber Ks.

Powell A-3

Start Date: 2004.07.22 @ 17:05:57

End Date: 2004.07.23 @ 02:01:12

Job Ticket #: 19169 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Woolsey Oper.Co.LLC

Spicer #1

2-34s-11w Barber Ks.

DST # 2

Miss.

2004.07.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Oper.Co.LLC

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

ATTN: Mikeal Maune

~~Spicer #1~~

Spicer #1 A-3

2-34s-11w Barber Ks.

Job Ticket: 19169

DST#: 2

Test Start: 2004.07.22 @ 17:05:57

GENERAL INFORMATION:

Formation: **Miss.**

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

Time Tool Opened: 19:00:27

Time Test Ended: 02:01:12

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4570.00 ft (KB) To 4635.00 ft (KB) (TVD)**

Reference Elevations: 1427.00 ft (KB)

Total Depth: 4635.00 ft (KB) (TVD)

1416.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 6755 **Inside**

Press@RunDepth: 82.99 psig @ 4571.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.07.22

End Date: 2004.07.23

Last Calib.: 2004.07.23

Start Time: 17:06:02

End Time: 02:01:12

Time On Btm: 2004.07.22 @ 18:56:42

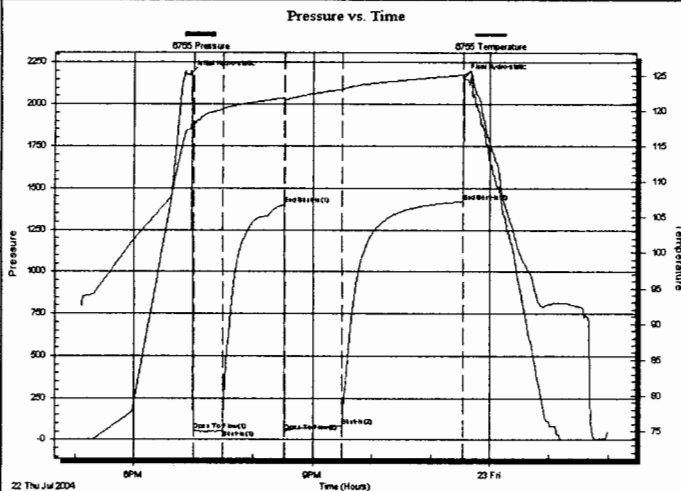
Time Off Btm: 2004.07.22 @ 23:33:12

TEST COMMENT: IF: Strong blow . B.O.B in 30 secs. GTS in 17 mins. (see gas volume report)

IS: No blow .

FF: Strong blow . (see gas volume report)

FS: Weak blow . 1/2 - 2".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2175.46	117.37	Initial Hydro-static
4	56.29	118.02	Open To Flow (1)
33	57.08	120.10	Shut-in(1)
94	1400.91	121.81	End Shut-in(1)
95	51.51	121.43	Open To Flow (2)
153	82.99	123.00	Shut-in(2)
275	1420.18	125.06	End Shut-in(2)
277	2160.96	125.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GCM with oil specs. 15%g 85%m	0.30
140.00	GCM 20%g 80%m	1.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	2.00	26.02
Last Gas Rate	0.25	5.50	31.57
Max. Gas Rate	0.25	9.00	37.12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper.Co.LLC

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

ATTN: Mikeal Maune

Spicer #1

POWELL P 3
2-34s-11w Barber Ks.

Job Ticket: 19169

DST#: 2

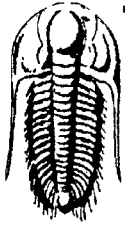
Test Start: 2004.07.22 @ 17:05:57

Tool Information

Drill Pipe:	Length: 4442.00 ft	Diameter: 3.80 inches	Volume: 62.31 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 62.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4570.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	92.00 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			4544.00	
Shut In Tool	5.00			4549.00	
Hydraulic tool	5.00			4554.00	
Jars	5.00			4559.00	
Safety Joint	2.00			4561.00	
Packer	4.00			4565.00	27.00 Bottom Of Top Packer
Packer	5.00			4570.00	
Stubb	1.00			4571.00	
Recorder	0.00	6755	Inside	4571.00	
Perforations	26.00			4597.00	
Change Over Sub	1.00			4598.00	
Blank Spacing	31.00			4629.00	
Change Over Sub	1.00			4630.00	
Recorder	0.00	13222	Outside	4630.00	
Bullnose	5.00			4635.00	65.00 Bottom Packers & Anchor
Total Tool Length:	92.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper.Co.LLC

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

ATTN: Mikeal Maune

Spicer #1

Power A-3
2-34s-11w Barber Ks.

Job Ticket: 19169

DST#: 2

Test Start: 2004.07.22 @ 17:05:57

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 10.38 in³

Resistivity: 0.00 ohm.m

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 4000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GCM w ith oil specs. 15%g 85%m	0.295
140.00	GCM 20%g 80%m	1.417

Total Length: 200.00 ft Total Volume: 1.712 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-2

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Woolsey Oper.Co.LLC

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

ATTN: Mikeal Maune

~~Spicer #1~~

Powell A-3
2-34s-11w Barber Ks.

Job Ticket: 19169

DST#:2

Test Start: 2004.07.22 @ 17:05:57

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	2.00	26.02
1	25	0.25	3.00	27.60
1	30	0.25	3.50	28.40
2	5	0.25	9.00	37.12
2	10	0.25	9.00	37.12
2	20	0.25	8.00	35.54
2	25	0.25	7.00	33.95
2	30	0.25	6.00	32.36
2	40	0.25	6.00	32.36
2	50	0.25	6.00	32.36
2	60	0.25	5.50	31.57

Pressure vs. Time

