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FEB 15 2005

PRODUCTION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC.

KCC
FEB 15 2005
CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **Woolsey Operateing**

125 N. Market
Wichita, KS 67202

ATTN: Wes Hanson

2-34-11w

Circle

Start Date: 2004.10.25 @ 18:52:18

End Date: 2004.10.26 @ 12:34:18

Job Ticket #: 20531

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Woolsey Operateing

Circle

2-34-11w

DST # 1

Pawnee

2004.10.25



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Woolsey Operating

125 N. Market
Witchita, KS 67202

ATTN: Wes Hanson

Circle

2-34-11w

Job Ticket: 20531

DST#: 1

Test Start: 2004.10.25 @ 18:52:18

GENERAL INFORMATION:

Formation: **Pawnee**

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

Time Tool Opened: 23:33:18

Time Test Ended: 12:34:18

Test Type: **Conventional Bottom Hole**

Tester: **Kevin Webster**

Unit No: **20**

Interval: **4486.00 ft (KB) To 4520.00 ft (KB) (TVD)**

Total Depth: **4520.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Good**

Reference Elevations: **1434.00 ft (KB)**

1421.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: **6751**

Inside

Press@RunDepth: **13.05 psig @ 4487.00 ft (KB)**

Start Date: **2004.10.25**

End Date:

2004.10.26

Start Time: **18:52:20**

End Time:

12:34:18

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2004.10.25 @ 23:18:18**

Time Off Btm: **2004.10.26 @ 07:37:18**

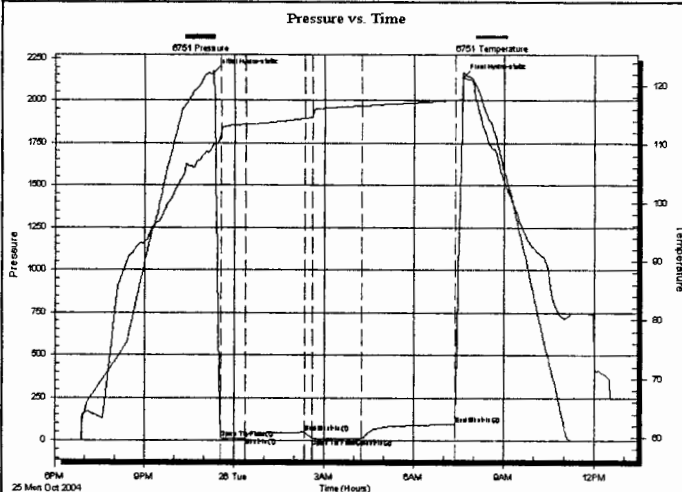
TEST COMMENT:

IF- bob 1 min

IS- built back to bob in 20 min

FF- bob asao

FSI- bob in 25 min gts at very end



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2164.52	110.06	Initial Hydro-static
15	14.76	112.37	Open To Flow (1)
63	15.28	113.44	Shut-In(1)
182	48.27	114.48	End Shut-In(1)
196	13.57	114.70	Open To Flow (2)
296	13.05	116.58	Shut-In(2)
484	99.09	117.60	End Shut-In(2)
499	2134.70	122.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% mud	0.14

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating

Circle

125 N. Market
Wichita, KS 67202

2-34-11w

Job Ticket: 20531

DST#: 1

ATTN: Wes Hanson

Test Start: 2004.10.25 @ 18:52:18

Tool Information

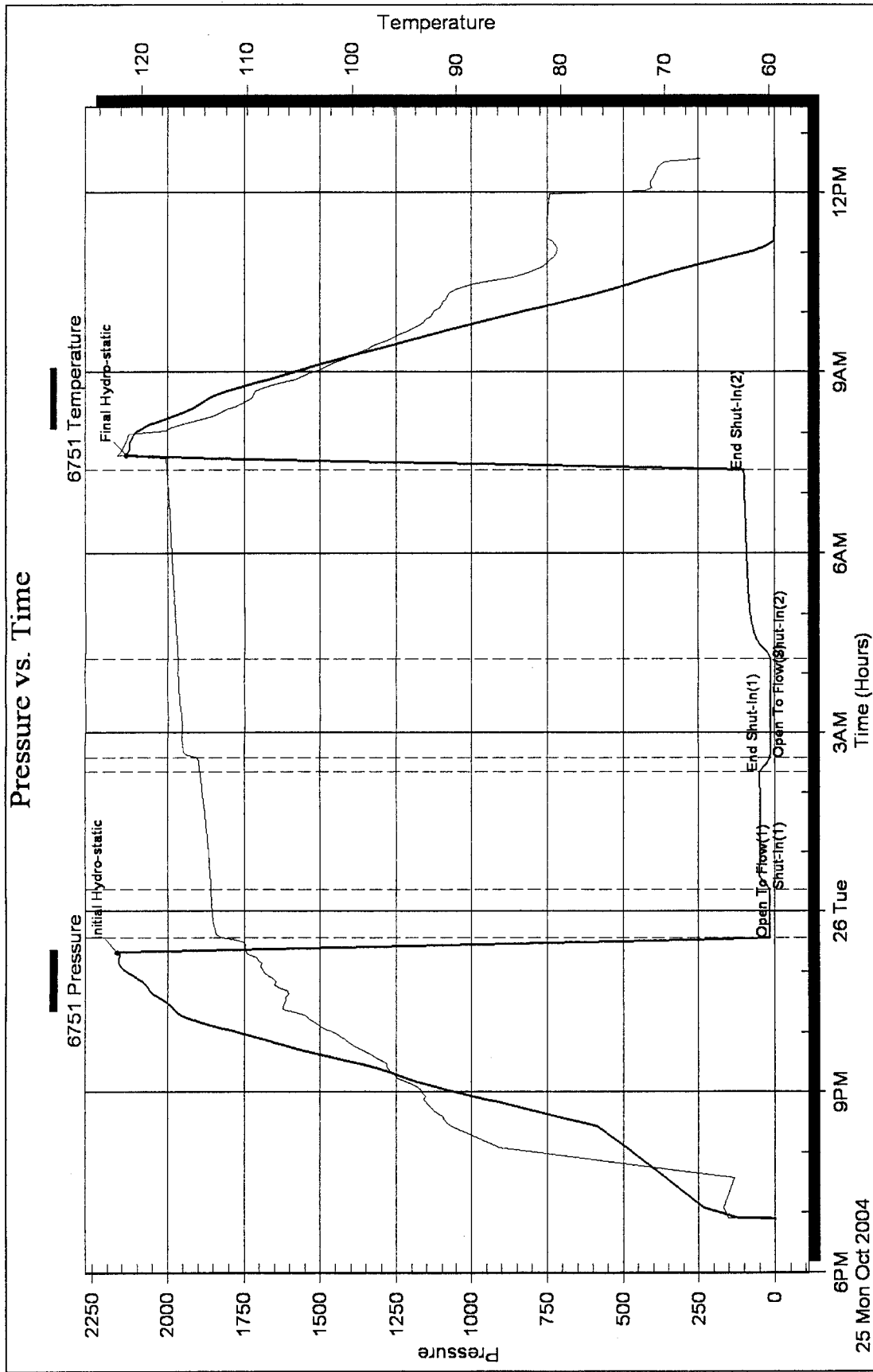
Drill Pipe:	Length:	4465.00 ft	Diameter:	3.80 inches	Volume:	62.63 bbl	Tool Weight:	1800.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	82000.00 lb
					Total Volume:	62.63 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft							
Depth to Top Packer:	4486.00 ft							
Depth to Bottom Packer:	ft							
Interval between Packers:	34.00 ft							
Tool Length:	61.00 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			4460.00	
Shut In Tool	5.00			4465.00	
Hydraulic tool	5.00			4470.00	
Jars	5.00			4475.00	
Safety Joint	2.00			4477.00	
Packer	5.00			4482.00	27.00 Bottom Of Top Packer
Packer	4.00			4486.00	
Stubb	1.00			4487.00	
Recorder	0.00	6751	Inside	4487.00	
Perforations	5.00			4492.00	
Perforations	25.00			4517.00	
Bullnose	3.00			4520.00	
Recorder	0.00	10993	Inside	4520.00	34.00 Bottom Packers & Anchor

Total Tool Length: 61.00

 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT		FLUID SUMMARY																												
	Woolsey Operateing 125 N. Market Witchita, KS 67202 ATTN: Wes Hanson		Circle 2-34-11w Job Ticket: 20531 DST#: 1 Test Start: 2004.10.25 @ 18:52:18																												
Mud and Cushion Information																															
<table style="width: 100%;"><tr><td style="width: 40%;">Mud Type: Gel Chem</td><td style="width: 20%;">Cushion Type:</td><td style="width: 20%;">Oil API:</td><td style="width: 20%;">deg API</td></tr><tr><td>Mud Weight: 9.00 lb/gal</td><td>Cushion Length:</td><td>ft</td><td>Water Salinity: ppm</td></tr><tr><td>Viscosity: 39.00 sec/qt</td><td>Cushion Volume:</td><td>bbl</td><td></td></tr><tr><td>Water Loss: 13.58 in³</td><td>Gas Cushion Type:</td><td></td><td></td></tr><tr><td>Resistivity: ohm.m</td><td>Gas Cushion Pressure:</td><td>psig</td><td></td></tr><tr><td>Salinity: 8000.00 ppm</td><td></td><td></td><td></td></tr><tr><td>Filter Cake: inches</td><td></td><td></td><td></td></tr></table>				Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API	Mud Weight: 9.00 lb/gal	Cushion Length:	ft	Water Salinity: ppm	Viscosity: 39.00 sec/qt	Cushion Volume:	bbl		Water Loss: 13.58 in ³	Gas Cushion Type:			Resistivity: ohm.m	Gas Cushion Pressure:	psig		Salinity: 8000.00 ppm				Filter Cake: inches			
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Filter Cake: inches																															
Recovery Information																															
Recovery Table																															
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 20%;">Length ft</th><th style="width: 60%;">Description</th><th style="width: 20%;">Volume bbl</th></tr></thead><tbody><tr><td style="text-align: center;">10.00</td><td>100% mud</td><td style="text-align: center;">0.140</td></tr></tbody></table>				Length ft	Description	Volume bbl	10.00	100% mud	0.140																						
Length ft	Description	Volume bbl																													
10.00	100% mud	0.140																													
Total Length: 10.00 ft Total Volume: 0.140 bbl																															
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:																															
Laboratory Name: Laboratory Location:																															
Recovery Comments:																															

Pressure vs. Time





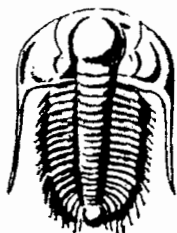
DRILL STEM TEST REPORT

Prepared for

Woolsey Petroleum
125 N Market Ste 1000
Wichita, KS 67202

Circle #1
2-34-11W
Barber Co Kansas

Trilobite Testing, Inc
PO Box 362 - Hays, Kansas - 67601
ph: 785-625-4778 fax: 785-625-5620
e-mail: trilobite@eaglecom.net



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Petroleum
125 N Market Ste 1000
Wichita, KS 67202

Well name#:	Circle #1	Date:	10/26/2004
Location#:	2-34-11W Barber Co Kansas	Ticket #:	20532
		DST#	2

General Informaion:

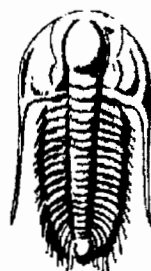
Formation:	Miss.	Test Type:	Conventional	BHT:
Interval:	4540-4605	Tester:	Kevin Webster	OIL API:
Total Depth:	4605	Elevation:	2089 ft(KB)	H2O Salinity:
Hole Diameter:	7 7/8"		2081 ft(CF)	
Start Data:		Tool Weight:	1800	Mud Type: Chemical
Start Time:	9:24:00	Weight Set on Packers:	30000	Mud Weight:
Time tool opened:	11:05:00	Weight to Pull Loose:	90000	Viscosity:
Time Off Btm:	16:05:00	Initial String Weight:	84000	Water Loss:
End Date:	11/2/04	Final String Weight:	84000	Resistivity;
End Time:		Drill Pipe Length:	4523	Salinity:
		Drill Collar Length:		
		Wt. Pipe Length:		

Test Comment:
IF: BOB in 1 min GTS in 21 min.
ISI: Blew back, BOB 10min.
FF: BOB as soon as open.
FSI: Blew back 6 min.

Recovery	
Length(ft):	90 100% Mud

Gas Volume Report

Recorder #:	Time:(min)	Min:	Ins. Of water	Orifice	MCF/D
Pressure Summary:			PSIG	size	
Initial Hydro-static:		0	7	1/8"	7.5
Open to Flow (1):		10	1	1/8"	5.4
Shut-in (1):		20	1	1/8"	5.4
End Shut-in (1):		30	1	1/8"	5.4
Open to Flow (2):		40	1	1/8"	5.4
Shut-in (2):		50	1	1/8"	5.4
End Shut-in (2):		60	1	1/8"	5.4
Final Hydro-static:					



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Woolsey Operateing**

125 N. Market
Wichita, KS 67202

ATTN: Wes Hanson

2-34-11w

Circle

Start Date: 2004.10.27 @ 18:14:02

End Date: 2004.10.28 @ 03:06:47

Job Ticket #: 19266

DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

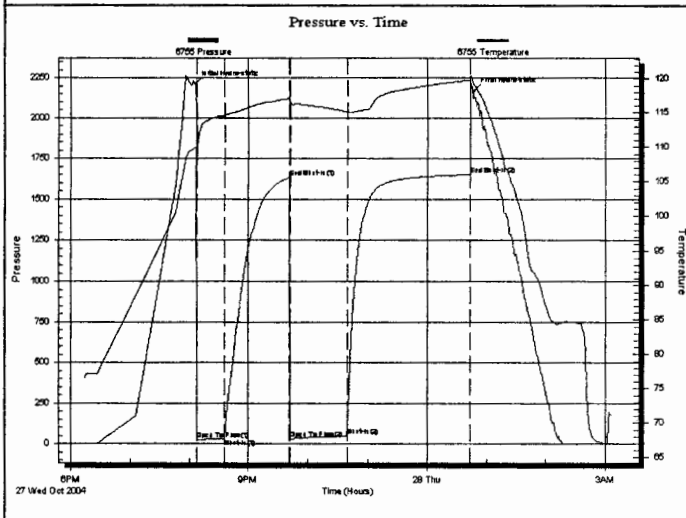
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Woolsey Operating 125 N. Market Wtchita, KS 67202 ATTN: Wes Hanson	Circle 2-34-11w Job Ticket: 19266 DST#: 3 Test Start: 2004.10.27 @ 18:14:02

GENERAL INFORMATION:

Formation: Miss. Deviated: No Whipstock: ft (KB) Time Tool Opened: 20:08:02 Time Test Ended: 03:06:47 Interval: 4580.00 ft (KB) To 4644.00 ft (KB) (TVD) Total Depth: 4644.00 ft (KB) (TVD) Hole Diameter: 7.78 inches Hole Condition: Poor	Test Type: Conventional Bottom Hole Tester: Gary Pevoteaux Unit No: 23 Reference Elevations: 1434.00 ft (KB) 1421.00 ft (CF) KB to GR/CF: 13.00 ft
--	---

Serial #: 6755 Inside Press@RunDepth: 49.59 psig @ 4581.00 ft (KB) Start Date: 2004.10.27 End Date: 2004.10.28 Start Time: 18:14:07 End Time: 03:06:47	Capacity: 7000.00 psig Last Calib.: 2004.10.28 Time On Btrr: 2004.10.27 @ 20:06:02 Time Off Btrr: 2004.10.28 @ 00:47:17
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TEST COMMENT: IF: Strong blow . B.O.B. in 5 - 10 secs.
 IS: No blow .
 FF: Strong blow . GTS in 1.5 mins. (see gas volume report)
 FS: No blow .



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2210.75	109.94	Initial Hydro-static
2	26.66	109.75	Open To Flow (1)
30	32.95	114.64	Shut-In(1)
95	1633.08	117.12	End Shut-In(1)
97	29.91	116.30	Open To Flow (2)
153	49.59	115.11	Shut-In(2)
278	1651.57	119.84	End Shut-In(2)
282	2166.63	119.39	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
80.00	15%g 85%m	1.12

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	6.00	32.36
Last Gas Rate	0.25	6.00	32.36
Max. Gas Rate	0.25	6.00	32.36



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating

Circle

125 N. Market
Wichita, KS 67202

2-34-11w

Job Ticket: 19266

DST#: 3

ATTN: Wes Hanson

Test Start: 2004.10.27 @ 18:14:02

Tool Information

Drill Pipe: Length: 4557.00 ft Diameter: 3.80 inches Volume: 63.92 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Total Volume: 63.92 bbl

Tool Weight: 2100.00 lb

Weight set on Packer: 20000.00 lb

Weight to Pull Loose: 97000.00 lb

Tool Chased 0.00 ft

String Weight: Initial 84000.00 lb

Final 84000.00 lb

Drill Pipe Above KB: 4.00 ft

Depth to Top Packer: 4580.00 ft

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			4554.00	
Shut In Tool	5.00			4559.00	
Hydraulic tool	5.00			4564.00	
Jars	5.00			4569.00	
Safety Joint	2.00			4571.00	
Packer	4.00			4575.00	27.00 Bottom Of Top Packer
Packer	5.00			4580.00	
Stubb	1.00			4581.00	
Recorder	0.00	6755	Inside	4581.00	
Perforations	4.00			4585.00	
Change Over Sub	1.00			4586.00	
Blank Spacing	31.00			4617.00	
Change Over Sub	1.00			4618.00	
Perforations	21.00			4639.00	
Recorder	0.00	13222	Outside	4639.00	
Bullnose	5.00			4644.00	64.00 Bottom Packers & Anchor
Total Tool Length:	91.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operateing

Circle

125 N. Market
Witchita, KS 67202

2-34-11w

Job Ticket: 19266

DST#: 3

ATTN: Wes Hanson

Test Start: 2004.10.27 @ 18:14:02

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:

10000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.77 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
80.00	15%g 85%m	1.122

Total Length: 80.00 ft

Total Volume: 1.122 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: GP-3

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating

Circle

125 N. Market
Wichita, KS 67202

2-34-11w

Job Ticket: 19266

DST#: 3

ATTN: Wes Hanson

Test Start: 2004.10.27 @ 18:14:02

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	6.00	32.36
2	20	0.25	5.00	30.78
2	30	0.25	4.50	29.98
2	40	0.25	5.00	30.78
2	50	0.25	5.00	30.78
2	60	0.25	6.00	32.36

DST Test Number: 3

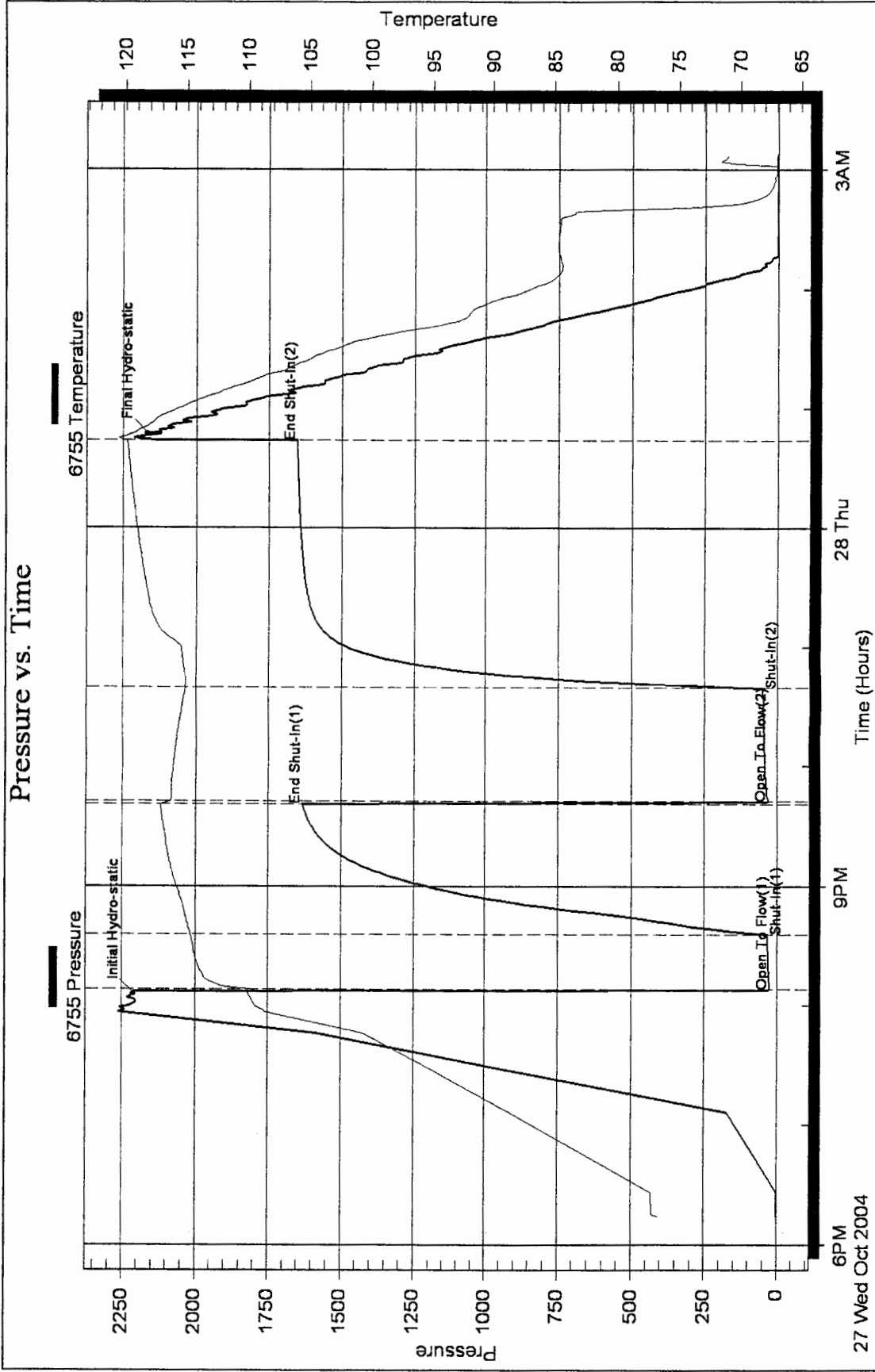
2-34-11w

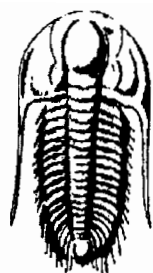
Woodsey Operating

Inside

Serial #: 6755

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Woolsey Operateing**

125 N. Market
Wichita, KS 67202

ATTN: Wes Hanson

2-34-11w

Circle

Start Date: 2004.10.29 @ 12:36:52

End Date: 2004.10.29 @ 21:58:07

Job Ticket #: 19267 DST #: 4

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

125 N. Market
Witchita, KS 67202

ATTN: Wes Hanson

Circle

2-34-11w

Job Ticket: 19267

DST#: 4

Test Start: 2004.10.29 @ 12:36:52

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:51:22

Time Test Ended: 21:58:07

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4970.00 ft (KB) To 5017.00 ft (KB) (TVD)**

Reference Elevations: 1434.00 ft (KB)

Total Depth: 5017.00 ft (KB) (TVD)

1421.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Poor

KB to GR/CF: 13.00 ft

Serial #: 6755

Inside

Press@RunDepth: 1663.91 psig @ 4971.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.10.29

End Date:

2004.10.29

Last Calib.:

2004.10.29

Start Time: 12:36:57

End Time:

21:58:07

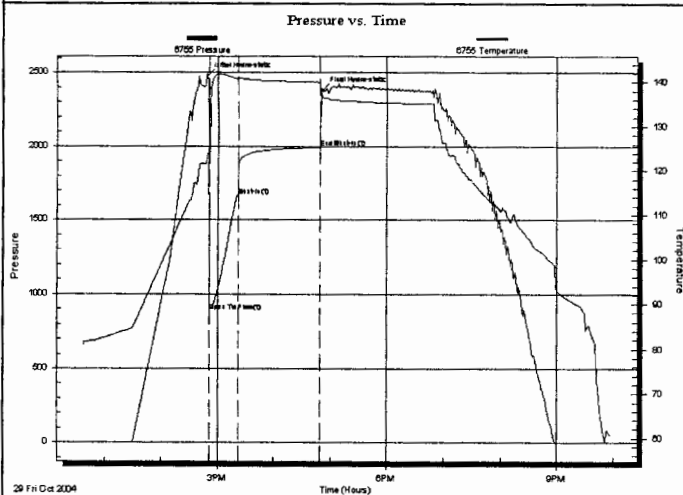
Time On Btm:

2004.10.29 @ 14:49:37

Time Off Btm:

2004.10.29 @ 16:51:37

TEST COMMENT: IF: Strong blow. b.o.b. in 15 secs. GTS in 4.5 mins. (see report) OTS in 30 mins.
IS: Venting oil & gas.
FF: none FS: none



PRESSURE SUMMARY

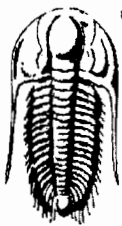
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2478.40	124.04	Initial Hydro-static
2	884.70	125.06	Open To Flow (1)
33	1663.91	140.72	Shut-In (1)
120	1992.44	139.95	End Shut-In (1)
122	2380.95	136.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4624.00	Clean gassy oil 33%g 67%o	64.86
120.00	GOCM 20%g 20%o 60%m	1.68

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	9.00	157.85
Last Gas Rate	0.38	44.00	213.93



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating

Circle

125 N. Market
Wichita, KS 67202

2-34-11w

Job Ticket: 19267

DST#: 4

ATTN: Wes Hanson

Test Start: 2004.10.29 @ 12:36:52

Tool Information

Drill Pipe:	Length: 4964.00 ft	Diameter: 3.80 inches	Volume: 69.63 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: 106000.0 lb
			Total Volume: 69.63 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 88000.00 lb
Depth to Top Packer:	4970.00 ft			Final 96000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	74.00 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			4944.00	
Shut In Tool	5.00			4949.00	
Hydraulic tool	5.00			4954.00	
Jars	5.00			4959.00	
Safety Joint	2.00			4961.00	
Packer	4.00			4965.00	27.00 Bottom Of Top Packer
Packer	5.00			4970.00	
Stubb	1.00			4971.00	
Recorder	0.00	6755	Inside	4971.00	
Perforations	4.00			4975.00	
Change Over Sub	1.00			4976.00	
Blank Spacing	31.00			5007.00	
Change Over Sub	1.00			5008.00	
Perforations	4.00			5012.00	
Recorder	0.00	13222	Outside	5012.00	
Bullnose	5.00			5017.00	47.00 Bottom Packers & Anchor
Total Tool Length:		74.00			

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Woolsey Operating 125 N. Market Wichita, KS 67202 ATTN: Wes Hanson	Circle 2-34-11w Job Ticket: 19267 DST#: 4 Test Start: 2004.10.29 @ 12:36:52	

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 42 deg API	
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 8000 ppm	
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.79 in ³	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
4624.00	Clean gassy oil 33%g 67%o	64.863
120.00	GOCM 20%g 20%o 60%m	1.683

Total Length: 4744.00 ft	Total Volume: 66.546 bbl	
Num Fluid Samples: 0	Num Gas Bombs: 0	Serial #: none
Laboratory Name:	Laboratory Location:	
Recovery Comments:		



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Woolsey Operateing

Circle

125 N. Market
Witchita, KS 67202

2-34-11w

Job Ticket: 19267

DST#: 4

ATTN: Wes Hanson

Test Start: 2004.10.29 @ 12:36:52

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	10	0.50	9.00	157.85
1	20	0.38	44.00	213.93

Serial #: 6755

Inside

Woolsey Operating

DST Test Number: 4

