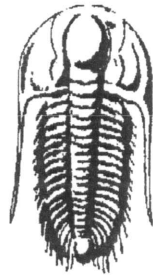


15-135-24559-0000



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling CO Inc**

100 S Main Ste 505
Wichita KS 67202-3738

KCC
NOV 30 2006
CONFIDENTIAL

ATTN: Larry J Richardson

27 19 26W Ness KS

Whipple C # 1

Start Date: 2006.11.15 @ 11:52:56

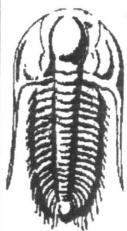
End Date: 2006.11.15 @ 19:12:56

Job Ticket #: 26153 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

Pickrell Drilling CO Inc

100 S Main Ste 505
Wichita KS 67202-3738

ATTN: Larry J Richardson

Whipple C # 1

27 19 26W Ness KS

Job Ticket: 26153

DST#: 1

Test Start: 2006.11.15 @ 11:52:56

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:58:56

Time Test Ended: 19:12:56

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: 4533.00 ft (KB) To 4625.00 ft (KB) (TVD)

Total Depth: 4625.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2622.00 ft (KB)

2617.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8018

Inside

Press@RunDepth: 28.77 psig @ 4536.00 ft (KB)

Start Date: 2006.11.15

End Date:

2006.11.15

Capacity: 7000.00 psig

Last Calib.: 2006.11.15

Start Time: 11:53:01

End Time:

19:12:55

Time On Btm: 2006.11.15 @ 13:58:26

Time Off Btm: 2006.11.15 @ 16:46:56

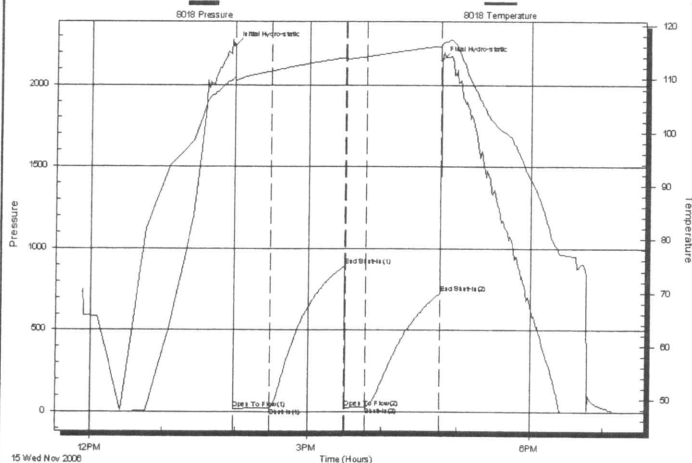
TEST COMMENT: IF Weak built to 1 " in Decrease to 1/2 "

ISI Dead

FF Dead

FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2240.36	110.26	Initial Hydro-static
1	18.69	109.80	Open To Flow (1)
31	24.27	111.46	Shut-In (1)
91	894.09	114.02	End Shut-In (1)
92	25.78	113.73	Open To Flow (2)
108	28.77	114.19	Shut-In (2)
168	728.76	116.18	End Shut-In (2)
169	2149.56	116.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	D.Mud with @ Tr/ of Oil	0.42

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling CO Inc

100 S Main Ste 505
Wichita KS 67202-3738

ATTN: Larry J Richardson

Whipple C # 1

27 19 26W Ness KS

Job Ticket: 26153

DST#: 1

Test Start: 2006.11.15 @ 11:52:56

Tool Information

Drill Pipe:	Length: 4514.00 ft	Diameter: 3.80 inches	Volume: 63.32 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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: 55000.00 lb
		Total Volume: 63.32 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4533.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	115.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00		4511.00	
Shut In Tool	5.00		4516.00	
Hydraulic tool	5.00		4521.00	
Safety Joint	3.00		4524.00	
Packer	4.00		4528.00	23.00 Bottom Of Top Packer
Packer	5.00		4533.00	
Stubb	1.00		4534.00	
Perforations	1.00		4535.00	
Change Over Sub	1.00		4536.00	
Recorder	0.00	8018 Inside	4536.00	
Blank Spacing	31.00		4567.00	
Recorder	0.00	11084 Outside	4567.00	
Blank Spacing	31.00		4598.00	
Change Over Sub	1.00		4599.00	
Perforations	23.00		4622.00	
Bullnose	3.00		4625.00	92.00 Bottom Packers & Anchor
Total Tool Length:	115.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling CO Inc

Whipple C # 1

100 S Main Ste 505
Wichita KS 67202-3738

27 19 26W Ness KS

Job Ticket: 26153

DST#: 1

ATTN: Larry J Richardson

Test Start: 2006.11.15 @ 11:52:56

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:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	D.Mud with @ Tr/ of Oil	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

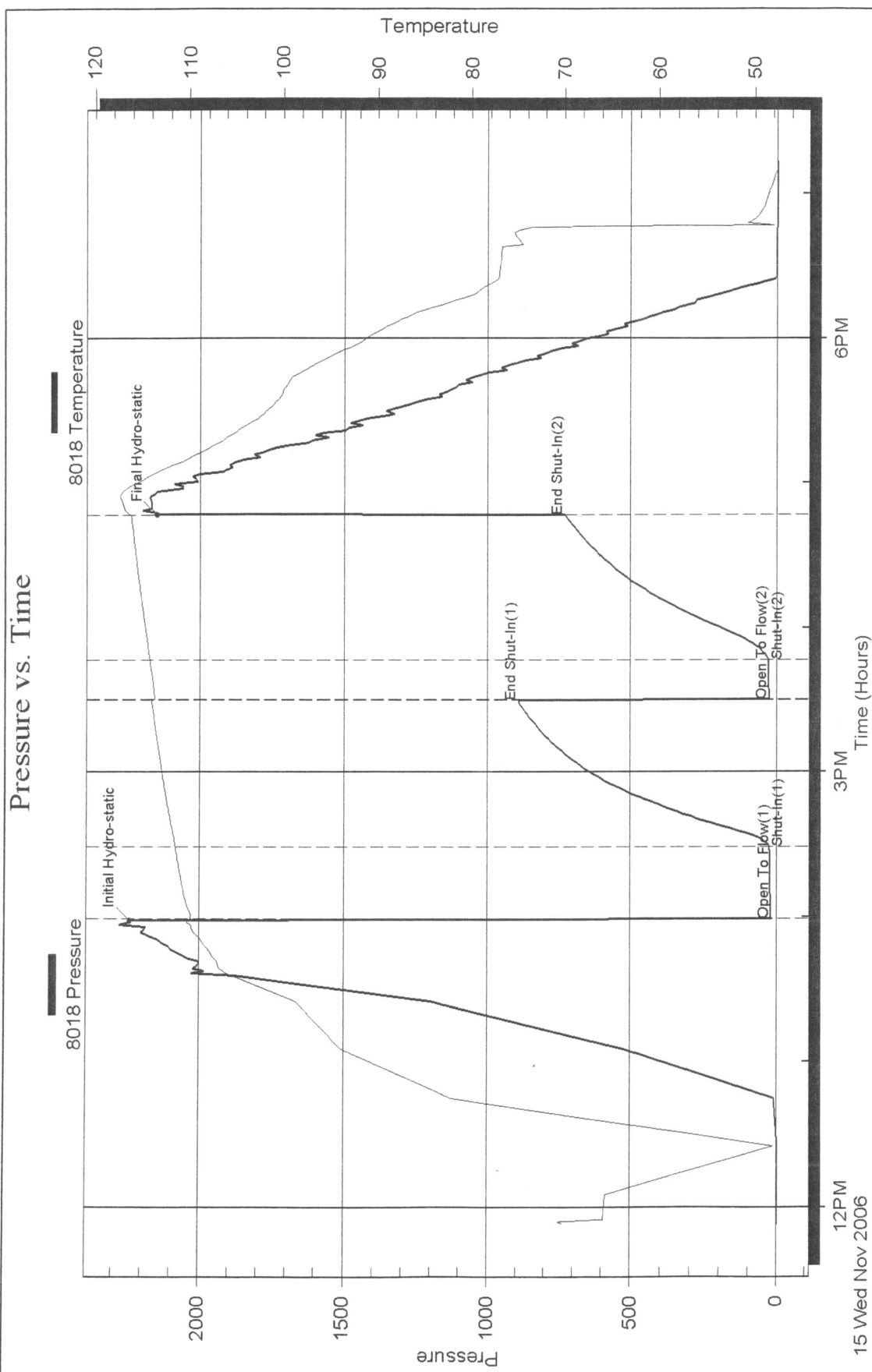
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling CO Inc**

100 S Main Ste 505
Wichita KS 67202-3738

ATTN: Larry J Richardson

27 19 26W Ness KS

Whipple C # 1

Start Date: 2006.11.16 @ 04:30:44

End Date: 2006.11.16 @ 11:02:44

Job Ticket #: 26154 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

Pickrell Drilling CO Inc

100 S Main Ste 505
Wichita KS 67202-3738

ATTN: Larry J Richardson

Whipple C # 1

27 19 26W Ness KS

Job Ticket: 26154

DST#: 2

Test Start: 2006.11.16 @ 04:30:44

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:17:44

Time Test Ended: 11:02:44

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **4615.00 ft (KB) To 4635.00 ft (KB) (TVD)**

Total Depth: 4635.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2622.00 ft (KB)

2617.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8018

Inside

Press@RunDepth: 24.66 psig @ 4617.00 ft (KB)

Start Date: 2006.11.16

End Date:

2006.11.16

Start Time: 04:30:49

End Time:

11:02:43

Capacity: 7000.00 psig

Last Calib.: 2006.11.16

Time On Btm: 2006.11.16 @ 06:16:44

Time Off Btm: 2006.11.16 @ 09:03:14

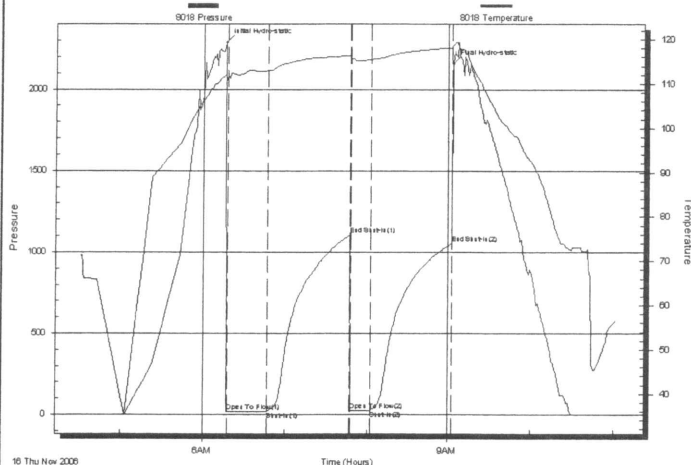
TEST COMMENT: IF Weak built to 1" in Decrease to 1/2 "

ISI Dead

FF Dead

FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2287.43	112.17	Initial Hydro-static
1	16.76	111.62	Open To Flow (1)
31	20.95	112.97	Shut-In(1)
91	1107.09	116.32	End Shut-In(1)
91	22.69	115.86	Open To Flow (2)
106	24.66	115.47	Shut-In(2)
166	1053.54	118.18	End Shut-In(2)
167	2154.90	118.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	D.Mud w with Tr. of Oil	0.35

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling CO Inc

100 S Main Ste 505
Wichita KS 67202-3738

ATTN: Larry J Richardson

Whipple C # 1

27 19 26W Ness KS

Job Ticket: 26154

DST#: 2

Test Start: 2006.11.16 @ 04:30:44

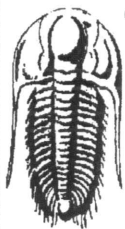
Tool Information

Drill Pipe:	Length: 4608.00 ft	Diameter: 3.80 inches	Volume: 64.64 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 2300.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume: 64.64 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4615.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	43.00 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			4593.00	
Shut In Tool	5.00			4598.00	
Hydraulic tool	5.00			4603.00	
Safety Joint	3.00			4606.00	
Packer	4.00			4610.00	23.00 Bottom Of Top Packer
Packer	5.00			4615.00	
Stubb	1.00			4616.00	
Perforations	1.00			4617.00	
Recorder	0.00	8018	Inside	4617.00	
Perforations	15.00			4632.00	
Recorder	0.00	13308	Outside	4632.00	
Bullnose	3.00			4635.00	20.00 Bottom Packers & Anchor

Total Tool Length: 43.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling CO Inc

Whipple C # 1

100 S Main Ste 505
Wichita KS 67202-3738

27 19 26W Ness KS

Job Ticket: 26154

DST#: 2

ATTN: Larry J Richardson

Test Start: 2006.11.16 @ 04:30:44

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:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	D.Mud with Tr. of Oil	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

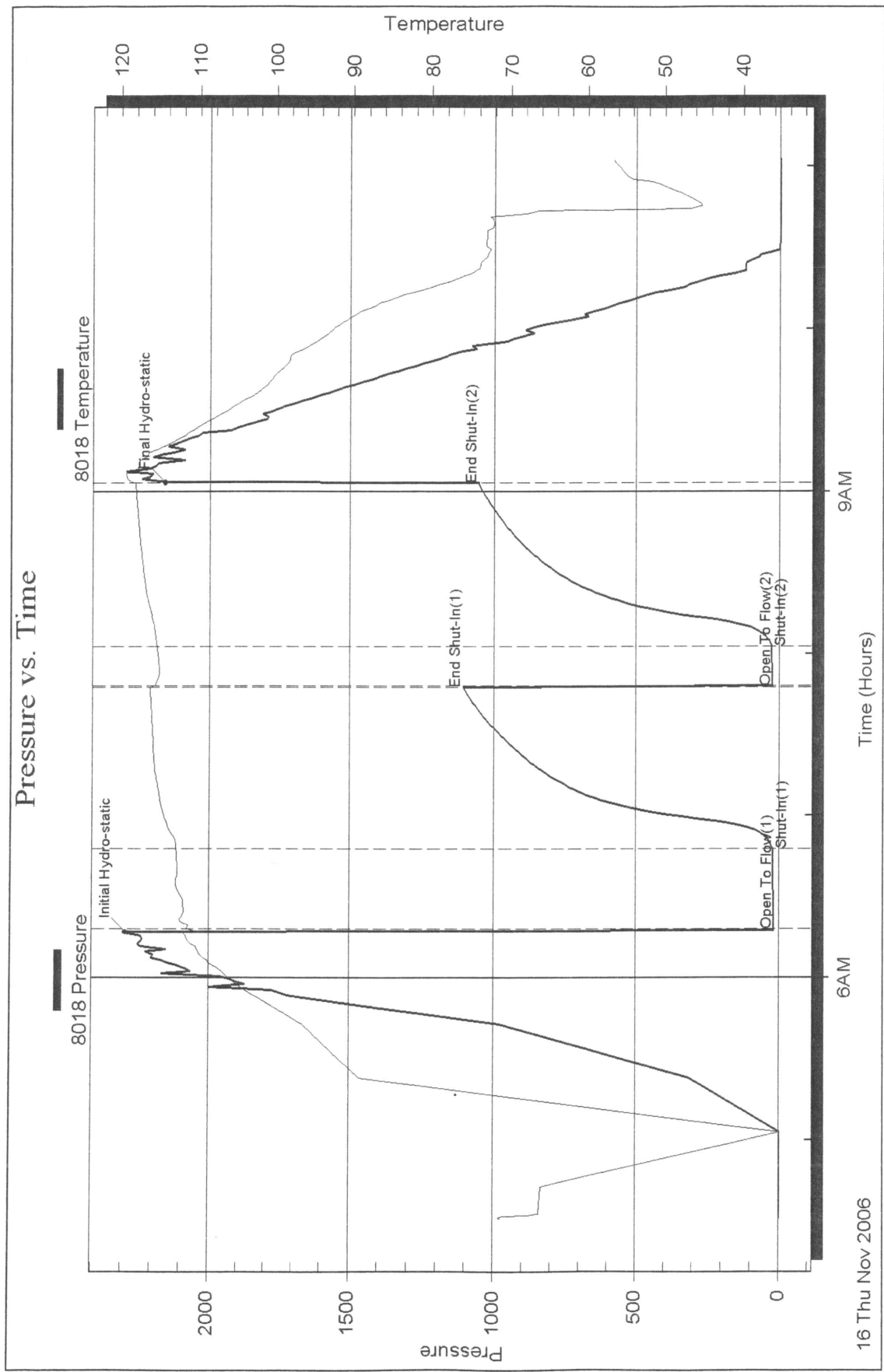
Serial #: 8018

Inside

Pickrell Drilling CO Inc

27 19 26W Ness KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling CO Inc**

100 S Main Ste 505
Wichita KS 67202-3738

ATTN: Larry J Richardson

27 19 26W Ness KS

Whipple C # 1

Start Date: 2006.11.16 @ 19:26:26

End Date: 2006.11.17 @ 01:54:54

Job Ticket #: 26007 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

Pickrell Drilling CO Inc

100 S Main Ste 505
Wichita KS 67202-3738

ATTN: Larry J Richardson

Whipple C # 1

27 19 26W Ness KS

Job Ticket: 26007

DST#: 3

Test Start: 2006.11.16 @ 19:26:26

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:16:54

Time Test Ended: 01:54:54

Test Type: Conventional Bottom Hole

Tester: Michael Shinn

Unit No: 10

Interval: **4630.00 ft (KB) To 4645.00 ft (KB) (TVD)**

Total Depth: 4645.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2622.00 ft (KB)

2617.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6672

Inside

Press@RunDepth: 30.95 psig @ 4630.00 ft (KB)

Start Date: 2006.11.16

End Date:

2006.11.17

Start Time: 19:26:26

End Time:

01:54:54

Capacity: 7000.00 psig

Last Calib.: 2006.11.17

Time On Btm: 2006.11.16 @ 21:16:09

Time Off Btm: 2006.11.16 @ 23:54:54

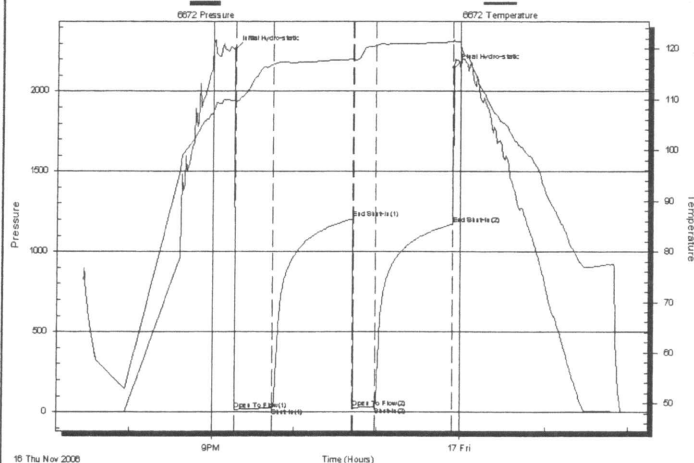
TEST COMMENT: IF Return blow to 1 1/2 " died to 1 1/4 "

IS No return

FF No return blow

ISI No return

Pressure vs. Time



PRESSURE SUMMARY

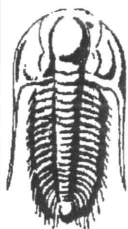
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2261.68	109.84	Initial Hydro-static
1	15.31	109.74	Open To Flow (1)
28	24.24	116.98	Shut-In (1)
87	1204.72	117.92	End Shut-In (1)
87	25.80	117.71	Open To Flow (2)
103	30.95	120.58	Shut-In (2)
159	1173.00	121.33	End Shut-In (2)
159	2146.67	121.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mud	0.56

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling CO Inc

100 S Main Ste 505
Wichita KS 67202-3738

ATTN: Larry J Richardson

Whipple C # 1

27 19 26W Ness KS

Job Ticket: 26007

DST#: 3

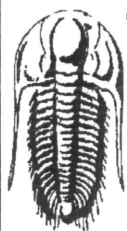
Test Start: 2006.11.16 @ 19:26:26

Tool Information

Drill Pipe:	Length: 4639.00 ft	Diameter: 3.80 inches	Volume: 65.07 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 65.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4630.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	1	Diameter: inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4613.00	
Hydraulic tool	5.00			4618.00	
Safety Joint	2.00			4620.00	
Packer	5.00			4625.00	22.00 Bottom Of Top Packer
Packer	5.00			4630.00	
Recorder	0.00	6672	Inside	4630.00	
Perforations	10.00			4640.00	
Recorder	0.00	11020	Inside	4640.00	
Bullnose	5.00			4645.00	15.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling CO Inc

Whipple C # 1

100 S Main Ste 505
Wichita KS 67202-3738

27 19 26W Ness KS

Job Ticket: 26007

DST#: 3

ATTN: Larry J Richardson

Test Start: 2006.11.16 @ 19:26:26

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:

ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Mud	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6672

Inside

Pickrell Drilling CO Inc

27 19 26W Ness KS

DST Test Number: 3

