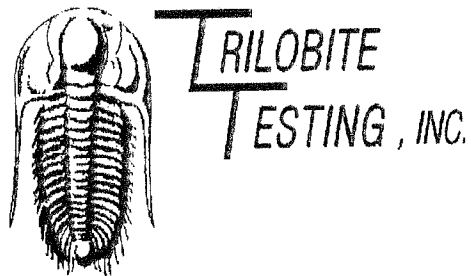


5- 31s-13w



DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Co Inc**

100 S Main Ste 505
Wichita KS 67202

ATTN: Terry McLeod

5 31S 13W Barber KS

Nittler "D" #1

Start Date: 2007.04.11 @ 01:06:22

End Date: 2007.04.11 @ 08:13:52

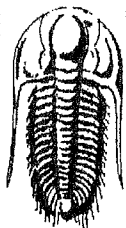
Job Ticket #: 25855 DST #: 1

15-007-23125
C S2 NW SE
1650 FSL 1980 FEL

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

ATTN: Terry McLeod

Nittler "D" #1

5 31S 13W Barber KS

Job Ticket: 25855

DST#: 1

Test Start: 2007.04.11 @ 01:06:22

GENERAL INFORMATION:

Formation: **Indian Cave**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:14:52

Time Test Ended: 08:13:52

Interval: **2767.00 ft (KB) To 2800.00 ft (KB) (TVD)**

Total Depth: 2800.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 36

Reference Elevations: 1763.00 ft (KB)

1758.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **6798**

Inside

Press@RunDepth: 134.44 psig @ 2768.00 ft (KB)

Start Date: 2007.04.11

End Date:

2007.04.11

Start Time:

01:06:27

End Time:

08:13:51

Capacity: 7000.00 psig

Last Calib.: 2007.04.11

Time On Btm: 2007.04.11 @ 03:13:52

Time Off Btm: 2007.04.11 @ 05:47:51

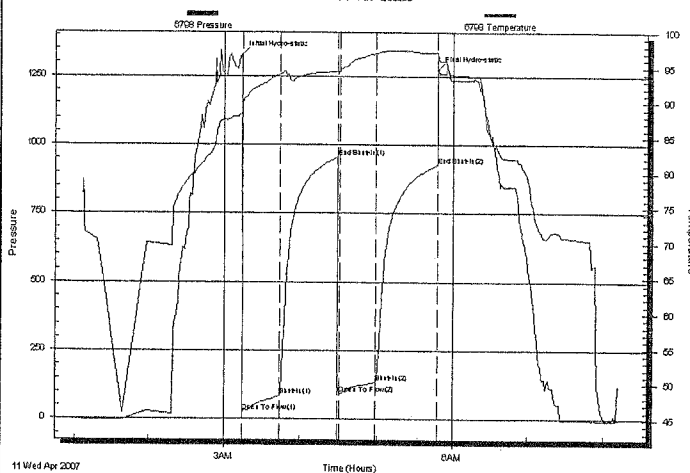
TEST COMMENT: IF Strong blow BOB in 10 secs.

ISI Weak blow Built to 1 "

FF Strong blow BOB in 45 secs.

FSI Weak blow Built to 1 "

Pressure vs. Time



PRESSURE SUMMARY

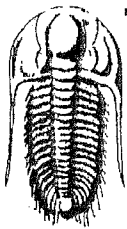
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1325.76	88.38	Initial Hydro-static
1	26.69	89.88	Open To Flow (1)
30	85.77	94.03	Shut-In (1)
75	953.26	94.41	End Shut-In (1)
77	91.94	94.58	Open To Flow (2)
105	134.44	96.98	Shut-In (2)
154	926.06	97.16	End Shut-In (2)
154	1272.83	96.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
260.00	SWCM 10%W 90%M	1.47
0.00	RW= .111 @ 49 deg. 98000 ppm	0.00
0.00		0.00

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

ATTN: Terry McLeod

Nittler "D" #1

5 31S 13W Barber KS

Job Ticket: 25855

DST#: 1

Test Start: 2007.04.11 @ 01:06:22

Tool Information

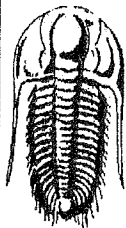
Drill Pipe:	Length: 2530.00 ft	Diameter: 3.80 inches	Volume: 35.49 bbl
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl
Drill Collar:	Length: 239.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl
			Total Volume: 36.67 bbl

Tool Weight:	2100.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	65000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	58000.00 lb
Final	60000.00 lb

Drill Pipe Above KB: 25.00 ft
Depth to Top Packer: 2767.00 ft
Depth to Bottom Packer: ft
Interval between Packers: 33.00 ft
Tool Length: 56.00 ft
Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2749.00	
Hydraulic tool	5.00			2754.00	
Safety Joint	3.00			2757.00	
Packer	5.00			2762.00	23.00 Bottom Of Top Packer
Packer	5.00			2767.00	
Stubb	1.00			2768.00	
Recorder	0.00	6798	Inside	2768.00	
Perforations	29.00			2797.00	
Recorder	0.00	13249	Outside	2797.00	
Bullnose	3.00			2800.00	33.00 Bottom Packers & Anchor
Total Tool Length:	56.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Co Inc

Nittler "D" #1

100 S Main Ste 505
Wichita KS 67202

5 31S 13W Barber KS

Job Ticket: 25855

DST#: 1

ATTN: Terry McLeod

Test Start: 2007.04.11 @ 01:06:22

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 44.00 sec/qt

Water Loss: 8.76 in³

Resistivity: 0.00 ohm.m

Salinity: 2500.00 ppm

Filter Cake: 0.02 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
260.00	SWCM 10%W 90%M	1.470
0.00	RW= .111 @ 49 deg. 98000 ppm	0.000
0.00		0.000

Total Length: 260.00 ft

Total Volume: 1.470 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

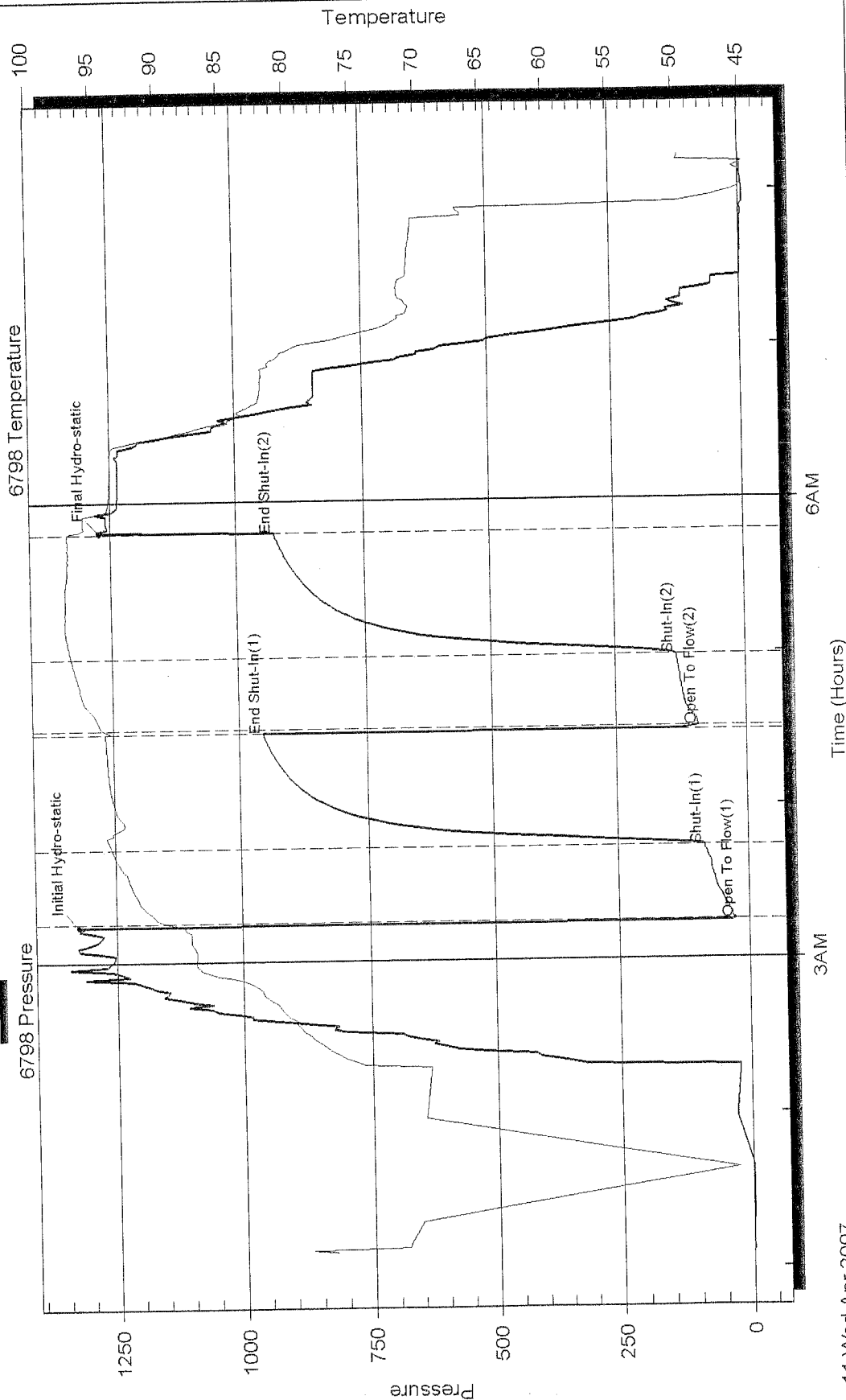
5 31S 13W Barber KS

Fickrell Drilling Co Inc

Inside

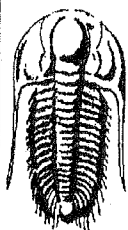
Serial #: 6798

Pressure vs. Time





Printed: 2007.04.16 @ 14:01:40 Page 1



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pickrell Drilling Co Inc

100 S Main Ste 505
Wichita KS 67202

ATTN: Terry McLeod

Nittler "D" #1

5 31S 13W Barber KS

Job Ticket: 25856

DST#: 2

Test Start: 2007.04.15 @ 07:31:38

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:20:38

Time Test Ended: 16:29:38

Interval: **4385.00 ft (KB) To 4395.00 ft (KB) (TVD)**

Total Depth: 4395.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 36

Reference Elevations: 1763.00 ft (KB)

1758.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6798

Inside

Press@RunDepth: 35.29 psig @ 4386.00 ft (KB)

Start Date: 2007.04.15

End Date:

2007.04.15

Start Time: 07:31:43

End Time:

16:29:38

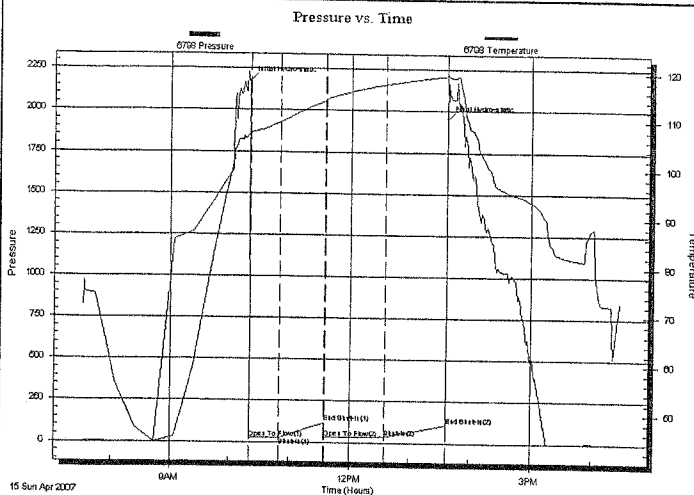
Capacity: 7000.00 psig

Last Calib.: 2007.04.15

Time On Btm: 2007.04.15 @ 10:19:38

Time Off Btm: 2007.04.15 @ 13:37:37

TEST COMMENT: IF Weak blow Built to 5 1/2 "
ISI No blow
FF Weak blow Built to 6 1/2 "
FSI No blow



PRESSURE SUMMARY

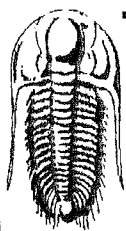
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2176.52	107.22	Initial Hydro-static
1	20.99	107.37	Open To Flow (1)
31	28.25	109.75	Shut-In(1)
76	117.28	114.13	End Shut-In(1)
76	25.68	114.43	Open To Flow (2)
136	35.29	117.50	Shut-In(2)
198	107.62	119.28	End Shut-In(2)
198	1951.42	119.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SGO&WCM 3%G 2%O 5%W 90%M	0.15
0.00	270' GIP	0.00
0.00		0.00

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

ATTN: Terry McLeod

Nittler "D" #1

5 31S 13W Barber KS

Job Ticket: 25856

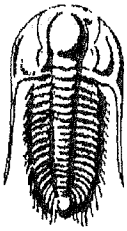
DST#: 2

Test Start: 2007.04.15 @ 07:31:38

Tool Information

Drill Pipe:	Length: 4142.00 ft	Diameter: 3.80 inches	Volume: 58.10 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: 239.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume: 59.28 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4385.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4367.00	
Hydraulic tool	5.00			4372.00	
Safety Joint	3.00			4375.00	
Packer	5.00			4380.00	23.00 Bottom Of Top Packer
Packer	5.00			4385.00	
Stub	1.00			4386.00	
Recorder	0.00	6798	Inside	4386.00	
Perforations	6.00			4392.00	
Recorder	0.00	13249	Outside	4392.00	
Bullnose	3.00			4395.00	10.00 Bottom Packers & Anchor
Total Tool Length:	33.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Co Inc

Nittler "D" #1

100 S Main Ste 505
Wichita KS 67202

5 31S 13W Barber KS

Job Ticket: 25856

DST#: 2

ATTN: Terry McLeod

Test Start: 2007.04.15 @ 07:31:38

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 9.57 in³

Resistivity: 0.00 ohm.m

Salinity: 5000.00 ppm

Filter Cake: 0.02 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
30.00	SGO&WCM 3%G 2%O 5%W 90%M	0.148
0.00	270' GIP	0.000
0.00		0.000

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 2

5 31S 13W Barber KS

Hickrell Drilling Co Inc

Inside

Serial #: 6798

Pressure vs. Time

