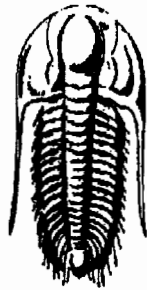


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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **IA Operating**

900 N Tyler Rd #14
Wichita Ks 67212

ATTN: Randy Killian

12-5s-20w-Phillips

Debra Unit 12-1

Start Date: 2005.10.19 @ 03:37:53

End Date: 2005.10.19 @ 11:26:53

Job Ticket #: 23698

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

IA Operating

Debra Unit 12-1

12-5s-20w-Phillips

DST # 1

L,Kc C-G

2005.10.19



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

IA Operating

900 N Tyler Rd #14
Wichita Ks 67212

ATTN: Randy Killian

Debra Unit 12-1

12-5s-20w-Phillips

Job Ticket: 23698

DST#: 1

Test Start: 2005.10.19 @ 03:37:53

GENERAL INFORMATION:

Formation: **L₁Kc C-G**

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

Time Tool Opened: 06:09:23

Time Test Ended: 11:26:53

Test Type: **Conventional Bottom Hole**

Tester: **Joe**

Unit No: **13**

Interval: **3397.00 ft (KB) To 3485.00 ft (KB) (TVD)**

Total Depth: **3485.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **2085.00 ft (KB)**

2080.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6799

Inside

Press@RunDepth: **100.61 psig @ 3402.00 ft (KB)**

Start Date: **2005.10.19**

End Date:

2005.10.19

Capacity: **7000.00 psig**

Last Calib.: **2005.10.19**

Start Time: **03:37:54**

End Time:

11:26:53

Time On Btm: **2005.10.19 @ 06:09:08**

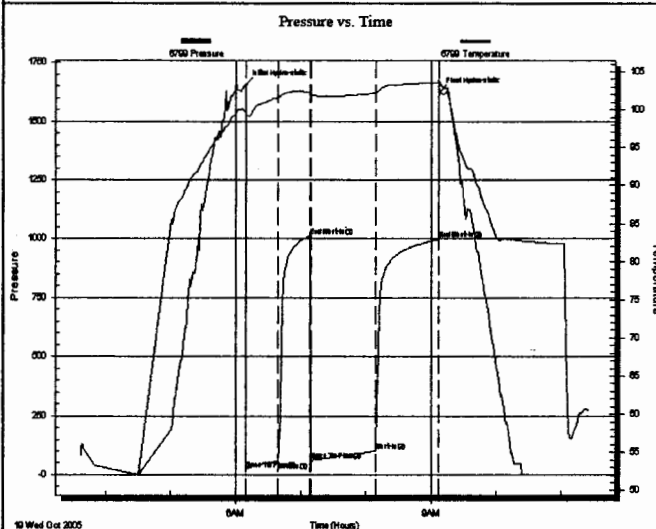
Time Off Btm: **2005.10.19 @ 09:08:08**

TEST COMMENT: **IF-Fair Blow Built to 6.5" in**

FF-Good Blow Built to BOB in 30min

ISI-No Blow back

FSI-Weak Sur



PRESSURE SUMMARY

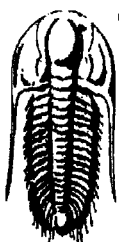
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1653.56	99.78	Initial Hydro-static
1	20.67	99.28	Open To Flow (1)
30	56.87	101.63	Shut-In(1)
60	1013.12	102.35	End Shut-In(1)
60	59.21	102.00	Open To Flow (2)
120	100.61	102.23	Shut-In(2)
178	995.91	103.58	End Shut-In(2)
179	1625.42	103.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	93 GIP	0.00
93.00	Clean Oil	1.01
124.00	MCO10%G30%M60%O	1.74

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operating

Debra Unit 12-1

900 N Tyler Rd #14
Wichita Ks 67212

12-5s-20w-Phillips

Job Ticket: 23698

DST#: 1

ATTN: Randy Killian

Test Start: 2005.10.19 @ 03:37:53

Tool Information

Drill Pipe:	Length:	3356.00 ft	Diameter:	3.80 inches	Volume:	47.08 bbl	Tool Weight:	2000.00 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:	32.00 ft	Diameter:	2.25 inches	Volume:	0.16 bbl	Weight to Pull Loose:	50000.00 lb		
						Total Volume:	47.24 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:	11.00 ft								String Weight: Initial	44000.00 lb
Depth to Top Packer:	3397.00 ft								Final	48000.00 lb
Depth to Bottom Packer:	ft									
Interval between Packers:	88.00 ft									
Tool Length:	108.00 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			3382.00	
Hydraulic tool	5.00			3387.00	
Packer	5.00			3392.00	20.00 Bottom Of Top Packer
Packer	5.00			3397.00	
Stubb	1.00			3398.00	
Perforations	4.00			3402.00	
Recorder	0.00	6799	Inside	3402.00	
Change Over Sub	1.00			3403.00	
Blank Spacing	63.00			3466.00	
Change Over Sub	1.00			3467.00	
Perforations	15.00			3482.00	
Recorder	0.00	13760	Inside	3482.00	
Bullnose	3.00			3485.00	88.00 Bottom Packers & Anchor

Total Tool Length: 108.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operating

Debra Unit 12-1

900 N Tyler Rd #14
Wichita Ks 67212

12-5s-20w-Phillips

Job Ticket: 23698

DST#: 1

ATTN: Randy Killian

Test Start: 2005.10.19 @ 03:37:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil Apt

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 42.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.59 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
0.00	93 GIP	0.000
93.00	Clean Oil	1.013
124.00	MCOG10%G30%M60%O	1.739

Total Length: 217.00 ft

Total Volume: 2.752 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Debra Unit 12-1
12-5s-20w-Phillips

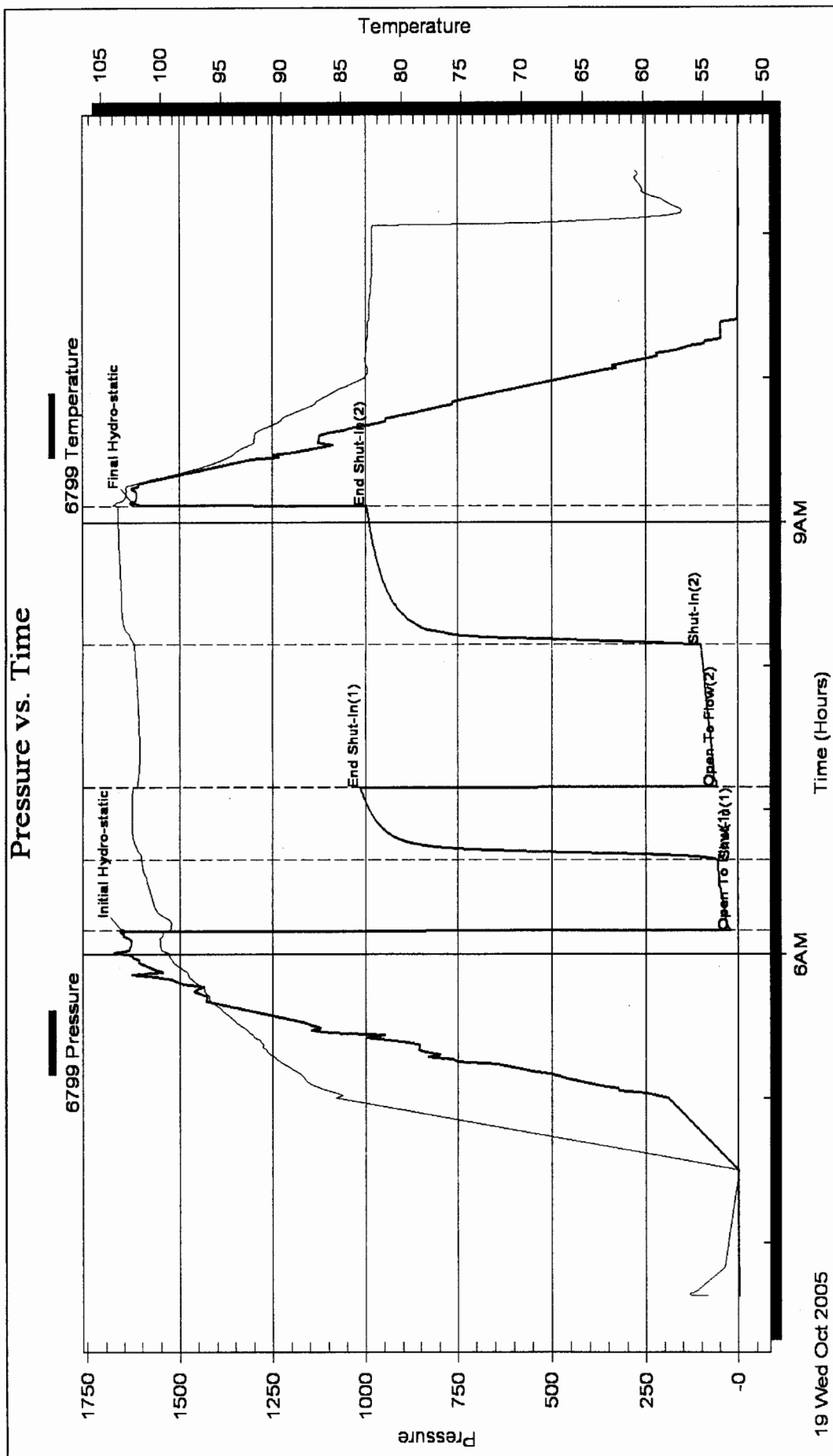
DST Test Number: 1

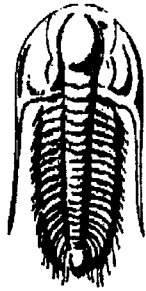
Serial #: 6799

Inside

IA Operating

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **IA Operating**

900 N Tyler Rd #14
Wichita Ks 67212

ATTN: Randy Killian

12-5s-20w-Phillips

Debra Unit 12-1

Start Date: 2005.10.19 @ 20:18:45

End Date: 2005.10.20 @ 02:12:45

Job Ticket #: 23699

DST #: 2

IA Operating

Debra Unit 12-1

12-5s-20w-Phillips

DST # 2

L,Kc I-L

2005.10.19

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

IA Operating

Debra Unit 12-1

900 N Tyler Rd #14
Wichita Ks 67212

12-5s-20w-Phillips

Job Ticket: 23699

DST#: 2

ATTN: Randy Killian

Test Start: 2005.10.19 @ 20:18:45

GENERAL INFORMATION:

Formation: L,Kc I-L

Deviated: No Whipstock ft (KB)

Time Tool Opened: 22:08:00

Time Test Ended: 02:12:45

Test Type: Conventional Bottom Hole

Tester: Joe

Unit No: 13

Interval: 3513.00 ft (KB) To 3585.00 ft (KB) (TVD)

Total Depth: 3585.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2085.00 ft (KB)

2080.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 26.28 psig @ 3514.00 ft (KB)

Start Date: 2005.10.19

End Date:

2005.10.20

Capacity: 7000.00 psig

Last Calib.: 2005.10.20

Start Time: 20:18:46

End Time:

02:12:45

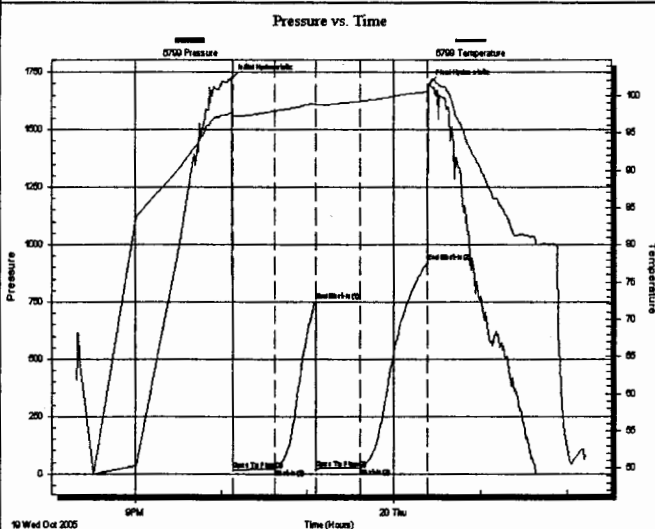
Time On Btm: 2005.10.19 @ 22:07:30

Time Off Btm: 2005.10.20 @ 00:24:30

TEST COMMENT: F- Weak Surface Blow Built to .25" in
FF-Weak Surface Blow

ISI-No Blow back

FSI-No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.61	97.68	Initial Hydro-static
1	15.82	97.22	Open To Flow (1)
30	22.60	97.93	Shut-In(1)
59	754.67	98.95	End Shut-In(1)
59	23.05	98.74	Open To Flow (2)
90	26.28	99.24	Shut-In(2)
136	922.68	100.53	End Shut-In(2)
137	1696.55	101.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Muddy Oil 40% M60% O	0.20

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operating

Debra Unit 12-1

900 N Tyler Rd #14
Wichita Ks 67212

12-5s-20w-Phillips

Job Ticket: 23699

DST#: 2

ATTN: Randy Killian

Test Start: 2005.10.19 @ 20:18:45

Tool Information

Drill Pipe:	Length: 3483.00 ft	Diameter: 3.80 inches	Volume: 48.86 bbl	Tool Weight:	2000.00 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: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose:	48000.00 lb
			Total Volume: 49.02 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3513.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	72.00 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
Shut In Tool	5.00			3498.00	
Hydraulic tool	5.00			3503.00	
Packer	5.00			3508.00	20.00 Bottom Of Top Packer
Packer	5.00			3513.00	
Stubb	1.00			3514.00	
Recorder	0.00	6799	Inside	3514.00	
Change Over Sub	1.00			3515.00	
Blank Spacing	63.00			3578.00	
Change Over Sub	1.00			3579.00	
Perforations	3.00			3582.00	
Recorder	0.00	13548	Inside	3582.00	
Bullnose	3.00			3585.00	72.00 Bottom Packers & Anchor

Total Tool Length: 92.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operating

Debra Unit 12-1

900 N Tyler Rd #14
Wichita Ks 67212

12-5s-20w-Phillips

Job Ticket: 23699

DST#: 2

ATTN: Randy Killian

Test Start: 2005.10.19 @ 20:18:45

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 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
35.00	Muddy Oil 40%M60%O	0.199

Total Length: 35.00 ft

Total Volume: 0.199 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Debra Unit 12-1

Serial #: 6799

Inside

IA Operating

DST Test Number: 2

12-5s-20w-Phillips

