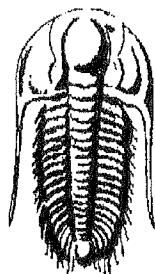


15-051-25795

5-15s-19w



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd
Hays KS 67601

ATTN: Tom Denning

5 15 19 Ellis KS

Breeden # 1

Start Date: 2008.08.07 @ 04:35:54

End Date: 2008.08.07 @ 11:27:54

Job Ticket #: 32857 DST #: 1

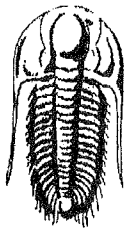
KCC
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RECEIVED
KANSAS CORPORATION COMMISSION

NOV 13 2008

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TDI Inc

1310 Bison Rd
Hays KS 67601

ATTN: Tom Denning

Breeden # 1

5 15 19 Ellis KS

Job Ticket: 32857

DST#: 1

Test Start: 2008.08.07 @ 04:35:54

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:51:54

Time Test Ended: 11:27:54

Interval: **3596.00 ft (KB) To 3696.00 ft (KB) (TVD)**

Total Depth: 3696.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Reference Elevations: 2047.00 ft (KB)

2042.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8372 Inside

Press@RunDepth: 80.54 psig @ 3599.00 ft (KB)

Start Date: 2008.08.07 End Date: 2008.08.07

Start Time: 04:35:55 End Time: 11:27:54

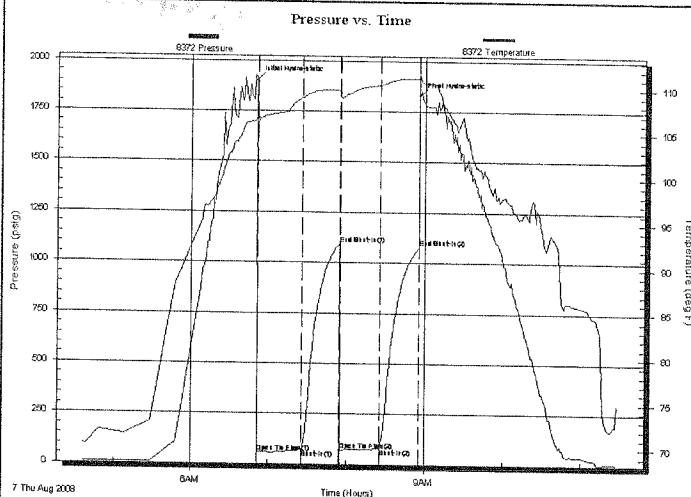
Capacity: 7000.00 psig

Last Calib.: 2008.08.07

Time On Btm: 2008.08.07 @ 06:51:24

Time Off Btm: 2008.08.07 @ 08:55:54

TEST COMMENT: IF Weak building to 2"
FF Weak building to 1/4"



PRESSURE SUMMARY

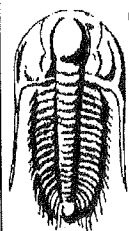
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.59	106.82	Initial Hydro-static
1	58.65	105.85	Open To Flow (1)
35	68.83	108.97	Shut-In(1)
63	1092.17	109.80	End Shut-In(1)
64	70.99	109.13	Open To Flow (2)
95	80.54	110.42	Shut-In(2)
124	1076.53	111.13	End Shut-In(2)
125	1827.28	111.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OCM 20%O 80%M	0.91

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc

1310 Bison Rd
Hays KS 67601

ATTN: Tom Denning

Breeden # 1

5 15 19 Ellis KS

Job Ticket: 32857

DST#: 1

Test Start: 2008.08.07 @ 04:35:54

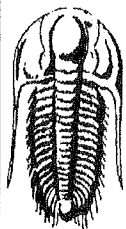
Tool Information

Drill Pipe:	Length: 3591.00 ft	Diameter: 3.80 inches	Volume: 50.37 bbl	Tool Weight:	2000.00 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:	45000.00 lb
			<u>Total Volume: 50.37 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	30000.00 lb
Depth to Top Packer:	3596.00 ft			Final	30000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	100.00 ft				
Tool Length:	121.00 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			3576.00	
Shut In Tool	5.00			3581.00	
Hydraulic tool	5.00			3586.00	
Packer	5.00			3591.00	21.00 Bottom Of Top Packer
Packer	5.00			3596.00	
Stubb	1.00			3597.00	
Perforations	1.00			3598.00	
Change Over Sub	1.00			3599.00	
Recorder	0.00	8372	Inside	3599.00	
Recorder	0.00	8368	Outside	3599.00	
Drill Pipe	61.00			3660.00	
Change Over Sub	1.00			3661.00	
Perforations	32.00			3693.00	
Bullnose	3.00			3696.00	100.00 Bottom Packers & Anchor

Total Tool Length: 121.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc

Breeden # 1

1310 Bison Rd
Hays KS 67601

5 15 19 Ellis KS

Job Ticket: 32857

DST#: 1

ATTN: Tom Denning

Test Start: 2008.08.07 @ 04:35:54

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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	OCM 20% O 80% M	0.912

Total Length: 65.00 ft

Total Volume: 0.912 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

