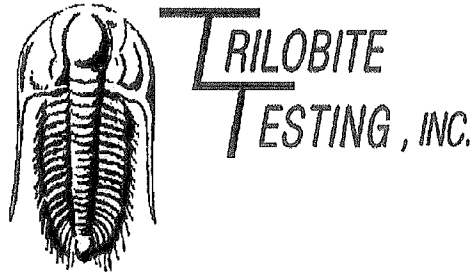


15-051-25980

17-155-18w



DRILL STEM TEST REPORT

Prepared For: **Dreilling Oil, Inc.**

PO Box 550
Hays Ks 67601

ATTN: Terry Piesker

17-15-18 Ellis Ks

Grabbe C # 1

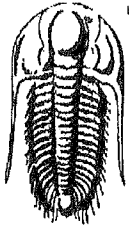
Start Date: 2010.05.28 @ 11:02:16

End Date: 2010.05.28 @ 17:41:31

Job Ticket #: 38692 DST #: 1

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Drilling Oil, Inc.

Grabbe C # 1

PO Box 550
Hays Ks 67601

17-15-18 Ellis Ks

Job Ticket: 38692

DST#: 1

ATTN: Terry Plesker

Test Start: 2010.05.28 @ 11:02:16

GENERAL INFORMATION:

Formation: **Toronto / C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:58:16

Time Test Ended: 17:41:31

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3202.00 ft (KB) To 3282.00 ft (KB) (TVD)

Total Depth: 3282.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1981.00 ft (KB)

1973.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 52.95 psig @ 3205.00 ft (KB)

Start Date: 2010.05.28

End Date: 2010.05.28

Start Time: 11:02:17

End Time: 17:41:31

Capacity: 8000.00 psig

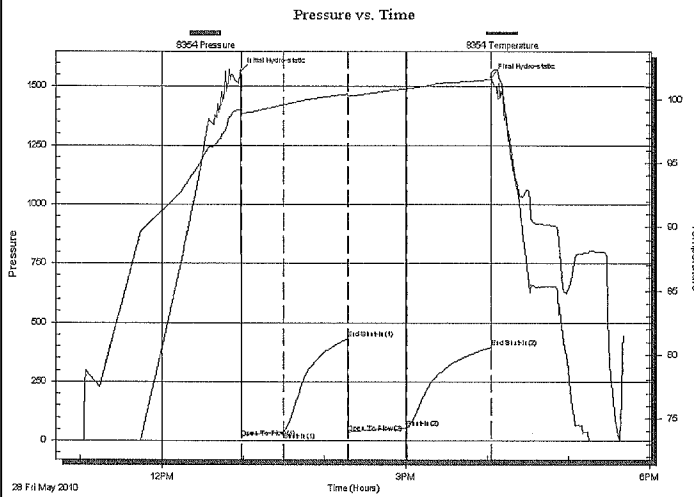
Last Calib.: 2010.05.28

Time On Btm: 2010.05.28 @ 12:58:01

Time Off Btm: 2010.05.28 @ 16:03:16

TEST COMMENT: IF-Weak building to 1"

FF-Weak building to 1"



PRESSURE SUMMARY

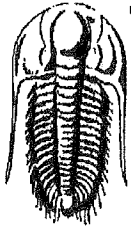
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1563.55	99.24	Initial Hydro-static
1	15.43	98.77	Open To Flow (1)
32	36.85	99.57	Shut-In(1)
79	432.12	100.42	End Shut-In(1)
80	34.55	100.30	Open To Flow (2)
123	52.95	100.86	Shut-In(2)
185	395.35	101.57	End Shut-In(2)
186	1539.41	102.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Slightly O&GCM 5%g 2%o 93%w	0.99

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Drilling Oil, Inc.

Grabbe C # 1

PO Box 550
Hays Ks 67601

17-15-18 Ellis Ks

ATTN: Terry Flesker

Job Ticket: 38692

DST#: 1

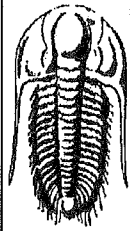
Test Start: 2010.05.28 @ 11:02:16

Tool Information

Drill Pipe:	Length: 3155.00 ft	Diameter: 3.80 inches	Volume: 44.26 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 44.41 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3202.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	100.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3183.00	
Shut In Tool	5.00			3188.00	
Hydraulic tool	5.00			3193.00	
Packer	5.00			3198.00	20.00 Bottom Of Top Packer
Packer	4.00			3202.00	
Stubb	1.00			3203.00	
Perforations	1.00			3204.00	
Change Over Sub	1.00			3205.00	
Recorder	0.00	8354	Inside	3205.00	
Recorder	0.00	8520	Outside	3205.00	
Drill Pipe	62.00			3267.00	
Change Over Sub	1.00			3268.00	
Perforations	11.00			3279.00	
Bullnose	3.00			3282.00	80.00 Bottom Packers & Anchor
Total Tool Length:	100.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil, Inc.

Grabbe C # 1

PO Box 550
Hays Ks 67601

17-15-18 Ellis Ks

Job Ticket: 38692

DST#: 1

ATTN: Terry Pesker

Test Start: 2010.05.28 @ 11:02:16

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: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Silty O&GCM 5%g 2%o 93%m	0.989

Total Length: 90.00 ft Total Volume: 0.989 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8354

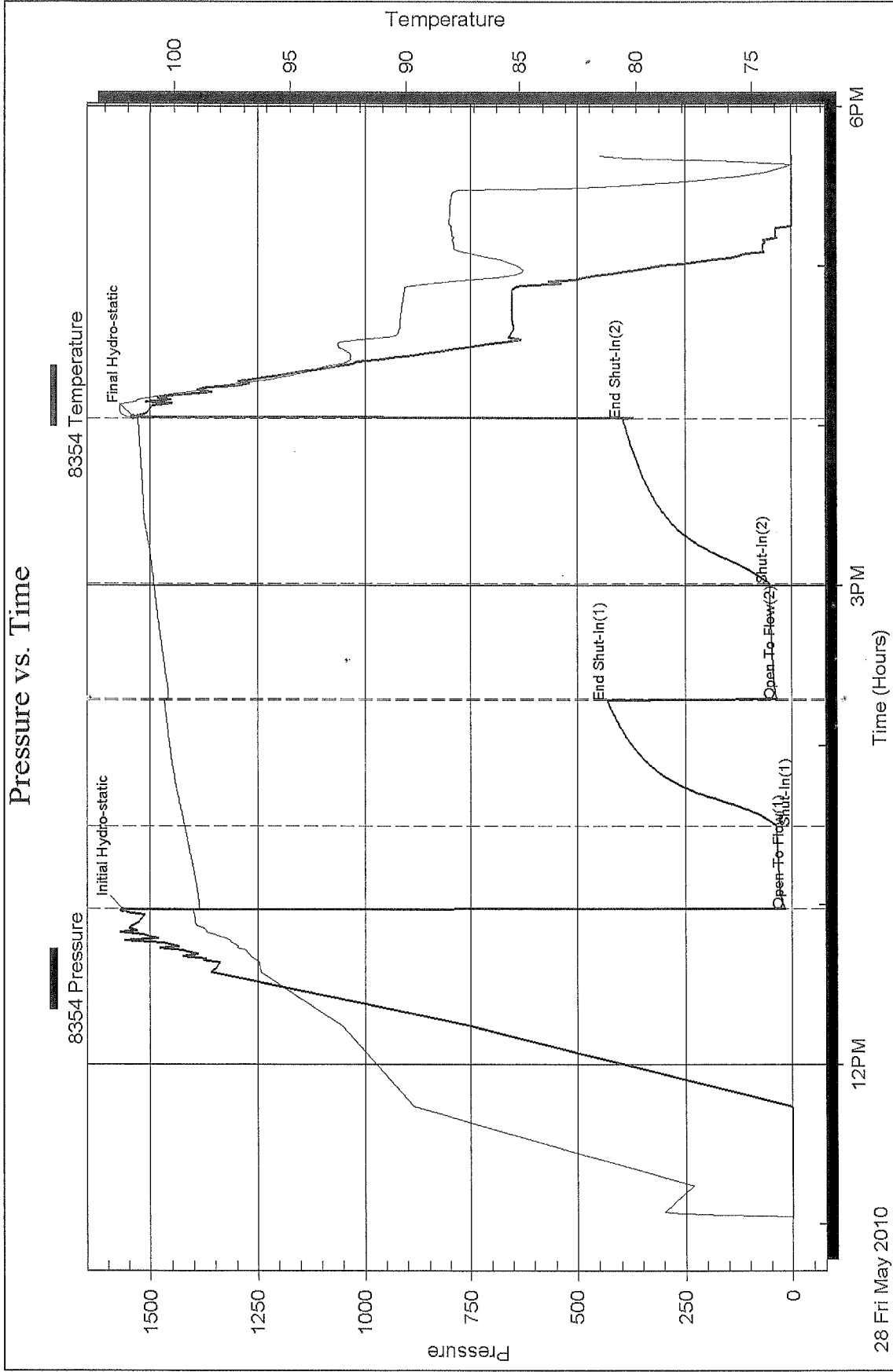
Inside

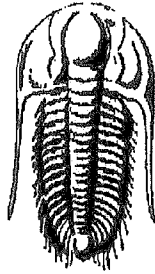
Drilling Oil, Inc.

17-15-18 Ellis Ks

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil, Inc.**

PO Box 550
Hays Ks 67601

ATTN: Terry Piesker

17-15-18 Ellis Ks

Grabbe C # 1

Start Date: 2010.05.29 @ 01:23:11

End Date: 2010.05.29 @ 06:57:56

Job Ticket #: 38693 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Dreiling Oil, Inc.

Grabbe C # 1

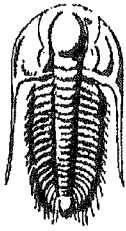
17-15-18 Ellis Ks

DST # 2

D-E-F

LKC

2010.05.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dreiling Oil, Inc.

Grabbe C # 1

PO Box 550
Hays Ks 67601

17-15-18 Ellis Ks

Job Ticket: 38693

DST#: 2

ATTN: Terry Pesker

Test Start: 2010.05.29 @ 01:23:11

GENERAL INFORMATION:

Formation: **D-E-F LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:00:26

Time Test Ended: 06:57:56

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3282.00 ft (KB) To 3326.00 ft (KB) (TVD)**

Reference Elevations: 1981.00 ft (KB)

Total Depth: 3326.00 ft (KB) (TVD)

1973.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 128.98 psig @ 3285.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.05.29

End Date:

2010.05.29

Last Calib.: 2010.05.29

Start Time: 01:23:12

End Time:

06:57:56

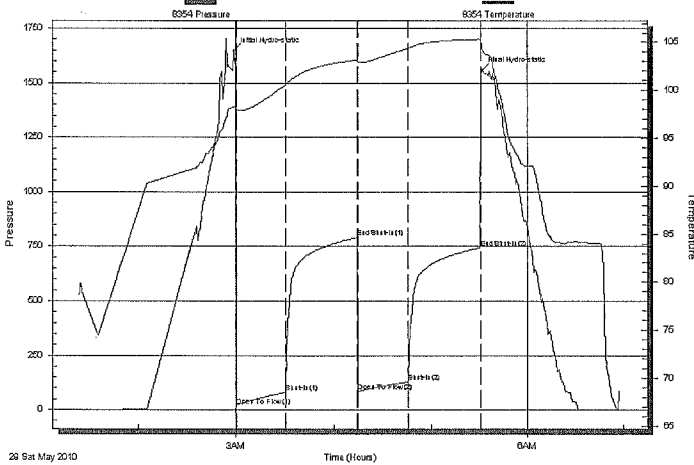
Time On Btm: 2010.05.29 @ 02:58:56

Time Off Btm: 2010.05.29 @ 05:31:56

TEST COMMENT: IF-Strong B-B in 20 min

FF-Weak building to 4"

Pressure vs. Time



PRESSURE SUMMARY

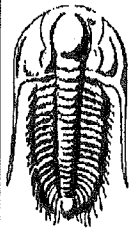
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1645.95	98.23	Initial Hydro-static
2	17.89	97.80	Open To Flow (1)
32	80.14	100.55	Shut-In(1)
76	790.08	103.15	End Shut-In(1)
76	83.50	102.96	Open To Flow (2)
107	128.98	104.35	Shut-In(2)
152	742.61	105.29	End Shut-In(2)
153	1556.57	104.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Wtr	3.09

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Drilling Oil, Inc.

Grabbe C # 1

PO Box 550
Hays Ks 67601

17-15-18 Ellis Ks

ATTN: Terry Pesker

Job Ticket: 38693

DST#: 2

Test Start: 2010.05.29 @ 01:23:11

Tool Information

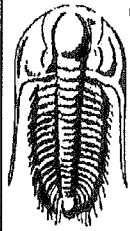
Drill Pipe:	Length: 3243.00 ft	Diameter: 3.80 inches	Volume: 45.49 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
		<u>Total Volume:</u>	<u>45.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3282.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 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			3263.00	
Shut In Tool	5.00			3268.00	
Hydraulic tool	5.00			3273.00	
Packer	5.00			3278.00	20.00 Bottom Of Top Packer
Packer	4.00			3282.00	
Stubb	1.00			3283.00	
Perforations	1.00			3284.00	
Change Over Sub	1.00			3285.00	
Recorder	0.00	8354	Inside	3285.00	
Recorder	0.00	8520	Outside	3285.00	
Drill Pipe	31.00			3316.00	
Change Over Sub	1.00			3317.00	
Perforations	6.00			3323.00	
Bullnose	3.00			3326.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil, Inc.

Grabbe C # 1

PO Box 550
Hays Ks 67601

17-15-18 Ellis Ks

Job Ticket: 38693

DST#: 2

ATTN: Terry Pesker

Test Start: 2010.05.29 @ 01:23:11

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:	60000 ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	Wtr	3.093

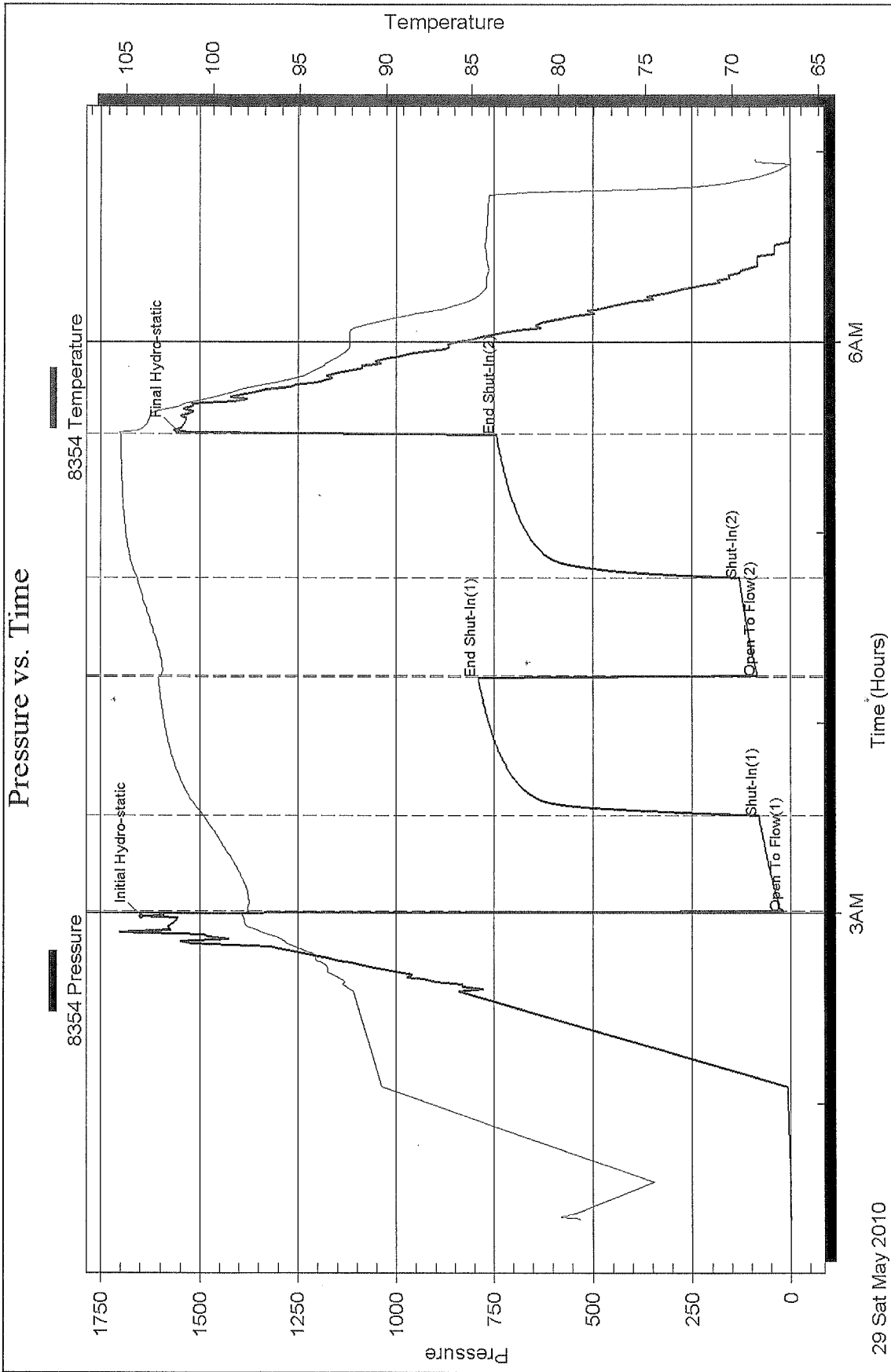
Total Length: 240.00 ft Total Volume: 3.093 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Rw .09 @ 70 = 60000ppm

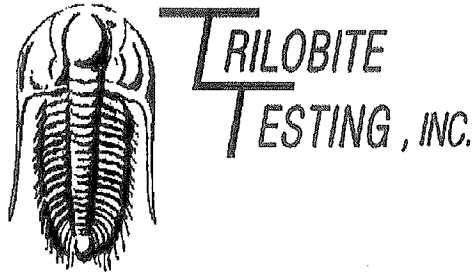
Pressure vs. Time



29 Sat May 2010

3AM

6AM



DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil, Inc.**

PO Box 550
Hays Ks 67601

ATTN: Terry Piesker

17-15-18 Ellis Ks

Grabbe C # 1

Start Date: 2010.05.29 @ 20:55:05

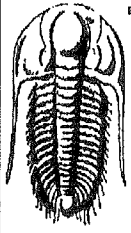
End Date: 2010.05.30 @ 03:00:35

Job Ticket #: 38694 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Drilling Oil, Inc.

Grabbe C # 1

PO Box 550
Hays Ks 67601

17-15-18 Ellis Ks

ATTN: Terry Flesker

Job Ticket: 38694

DST#: 3

Test Start: 2010.05.29 @ 20:55:05

GENERAL INFORMATION:

Formation: **KC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:32:20

Time Test Ended: 03:00:35

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3369.00 ft (KB) To 3464.00 ft (KB) (TVD)

Reference Elevations: 1981.00 ft (KB)

Total Depth: 3464.00 ft (KB) (TVD)

1973.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 40.09 psig @ 3372.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.05.29

End Date:

2010.05.30

Last Calib.: 2010.05.30

Start Time: 20:55:06

End Time:

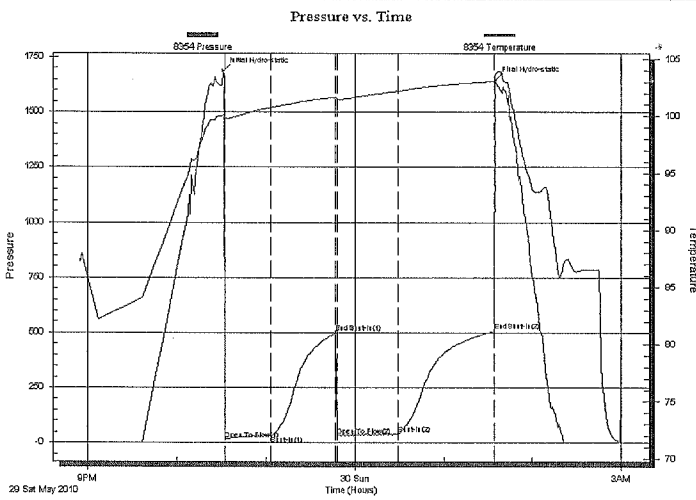
03:00:35

Time On Btm: 2010.05.29 @ 22:31:05

Time Off Btm: 2010.05.30 @ 01:35:05

TEST COMMENT: IF-Weak steady surface blow

FF-Weak steady surface blow



PRESSURE SUMMARY

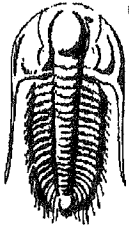
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1685.24	100.11	Initial Hydro-static
2	14.90	99.27	Open To Flow (1)
33	30.61	100.75	Shut-In(1)
76	498.13	101.66	End Shut-In(1)
77	31.50	101.51	Open To Flow (2)
119	40.09	102.22	Shut-In(2)
184	507.14	103.07	End Shut-In(2)
184	1645.02	103.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud w/ oil spots	0.57

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dreiling Oil, Inc.

Grabbe C # 1

PO Box 550
Hays Ks 67601

17-15-18 Ellis Ks

ATTN: Terry Pesker

Job Ticket: 38694

DST#: 3

Test Start: 2010.05.29 @ 20:55:05

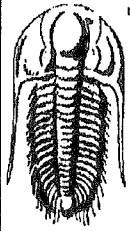
Tool Information

Drill Pipe:	Length: 3339.00 ft	Diameter: 3.80 inches	Volume: 46.84 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3369.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	95.00 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
Change Over Sub	1.00			3350.00	
Shut In Tool	5.00			3355.00	
Hydraulic tool	5.00			3360.00	
Packer	5.00			3365.00 *	20.00 Bottom Of Top Packer
Packer	4.00			3369.00	
Stubb	1.00			3370.00	
Perforations	1.00			3371.00	
Change Over Sub	1.00			3372.00	
Recorder	0.00	8354	Inside	3372.00	
Recorder	0.00	8520	Outside	3372.00	
Drill Pipe	62.00			3434.00	
Change Over Sub	1.00			3435.00	
Perforations	26.00			3461.00	
Bullnose	3.00			3464.00	95.00 Bottom Packers & Anchor

Total Tool Length: 115.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil, Inc.

Grabbe C # 1

PO Box 550
Hays Ks 67601

17-15-18 Ellis Ks

Job Ticket: 38694

DST#: 3

ATTN: Terry Pesker

Test Start: 2010.05.29 @ 20:55:05

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud w / oil spots	0.568

Total Length: 60.00 ft Total Volume: 0.568 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8354

Inside

Drilling Oil, Inc.

17-15-18 Ellis Ks

DST Test Number: 3

Pressure vs. Time

