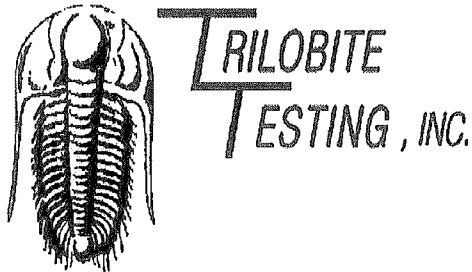


15-051-25955

24-15s-18w

IND



DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil Inc**

Box 550
Hays Ks 67601

ATTN: Terry Piesker

24-15-18-Ellis-Ks

Kuhn A # 1

Start Date: 2010.04.13 @ 11:36:20

End Date: 2010.04.13 @ 17:34:05

Job Ticket #: 38186 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION
JUN 24 2010
CONSERVATION DIVISION
WICHITA, KS

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

Dreiling Oil Inc

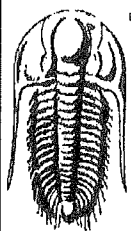
Kuhn A # 1

24-15-18-Ellis-Ks

DST # 1

Tor/A-B-C

2010.04.13



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Drilling Oil Inc

Kuhn A # 1

Box 550
Hays Ks 67601

24-15-18-Ellis-Ks

Job Ticket: 38186

DST#: 1

ATTN: Terry Plesker

Test Start: 2010.04.13 @ 11:36:20

GENERAL INFORMATION:

Formation: **Tor/A-B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:34:05

Time Test Ended: 17:34:05

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3230.00 ft (KB) To 3316.00 ft (KB) (TVD)**

Total Depth: 3316.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2005.00 ft (KB)

1997.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **8354**

Inside

Press@RunDepth: 27.92 psig @ 3233.00 ft (KB)

Start Date: 2010.04.13

End Date:

2010.04.13

Start Time: 11:36:21

End Time:

17:34:05

Capacity: 8000.00 psig

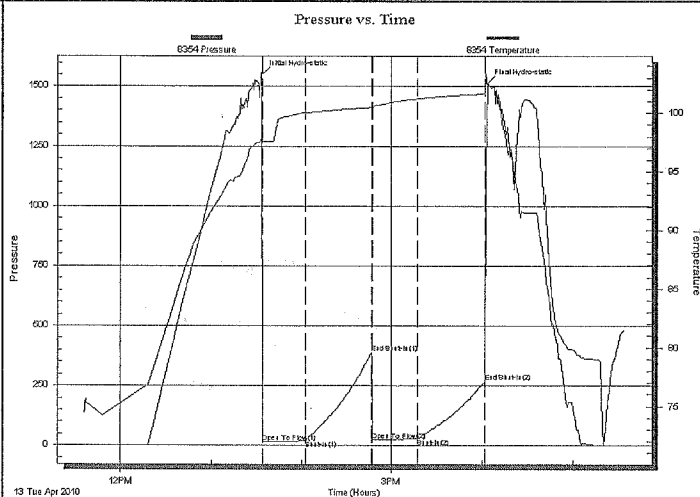
Last Calib.: 2010.04.13

Time On Btm: 2010.04.13 @ 13:33:35

Time Off Btm: 2010.04.13 @ 16:03:20

TEST COMMENT: IF-Strong B-B in 16 min

FF-Strong B-B in 10 sec



PRESSURE SUMMARY

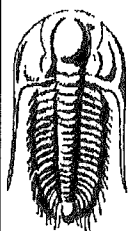
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1550.59	97.84	Initial Hydro-static
1	15.19	97.51	Open To Flow (1)
29	19.85	100.02	Shut-In(1)
73	387.56	100.48	End Shut-In(1)
74	22.77	100.40	Open To Flow (2)
104	27.92	101.22	Shut-In(2)
148	266.85	101.65	End Shut-In(2)
150	1512.67	102.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	OCGsyM 10%g 5%o 85%rn	0.36
0.00	495 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dreiling Oil Inc

Kuhn A # 1

Box 550
Hays Ks 67601

24-15-18-Ellis-Ks

Job Ticket: 38186

DST#: 1

ATTN: Terry Pesker

Test Start: 2010.04.13 @ 11:36:20

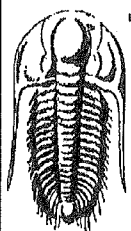
Tool Information

Drill Pipe:	Length: 3185.00 ft	Diameter: 3.80 inches	Volume: 44.68 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	44.83 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3230.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	106.00 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			3211.00	
Shut In Tool	5.00			3216.00	
Hydraulic tool	5.00			3221.00	
Packer	5.00			3226.00	20.00 Bottom Of Top Packer
Packer	4.00			3230.00	
Stubb	1.00			3231.00	
Perforations	1.00			3232.00	
Change Over Sub	1.00			3233.00	
Recorder	0.00	8354	Inside	3233.00	
Recorder	0.00	8520	Outside	3233.00	
Drill Pipe	62.00			3295.00	
Change Over Sub	1.00			3296.00	
Perforations	17.00			3313.00	
Bullnose	3.00			3316.00	86.00 Bottom Packers & Anchor

Total Tool Length: 106.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil Inc

Kuhn A # 1

Box 550
Hays Ks 67601

24-15-18-Ellis-Ks

Job Ticket: 38186

DST#: 1

ATTN: Terry Flesker

Test Start: 2010.04.13 @ 11:36:20

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: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	OCCsyM 10%g 5%o 85%m	0.358
0.00	495 GIP	0.000

Total Length: 45.00 ft

Total Volume: 0.358 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

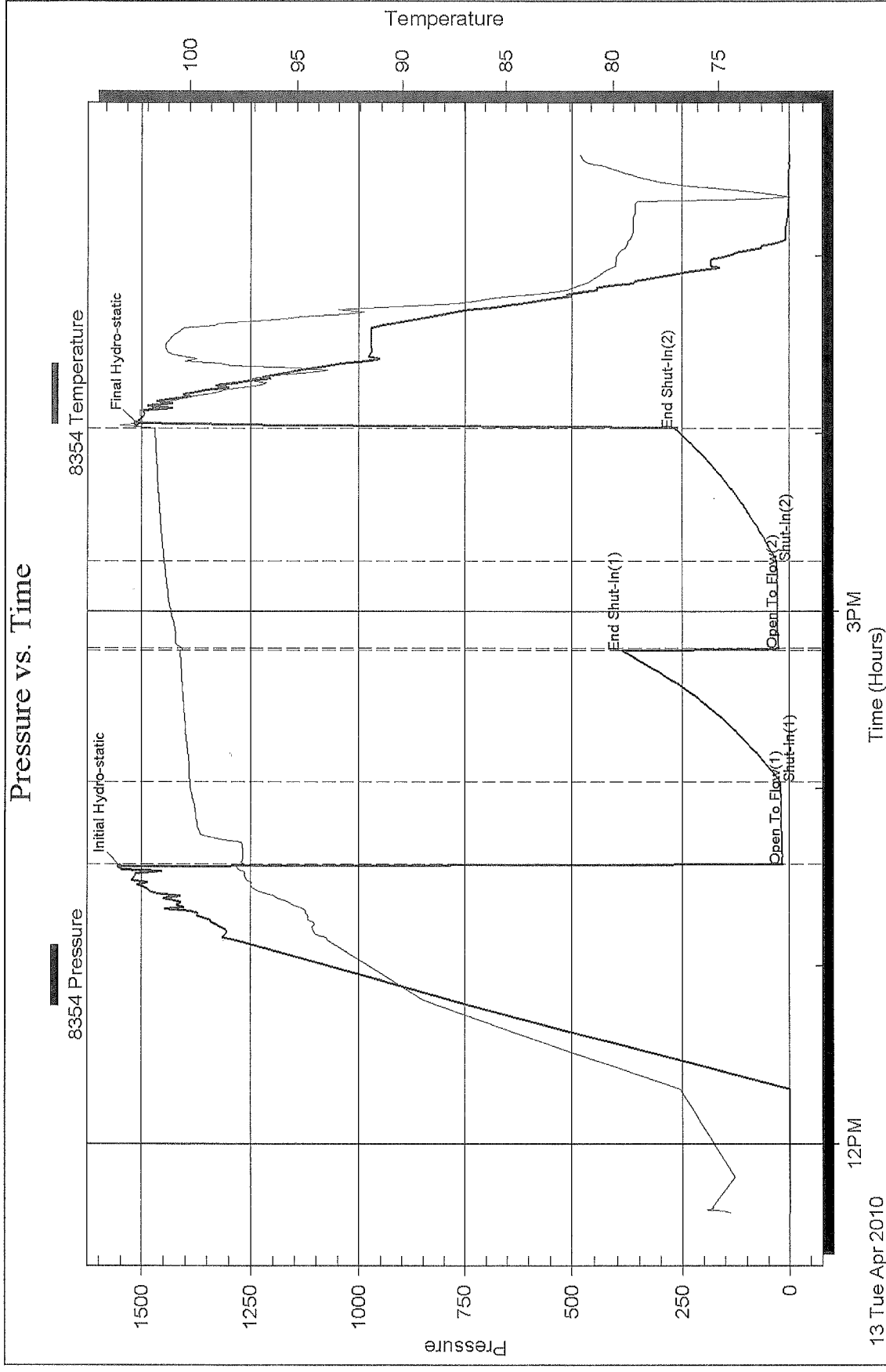
Serial #: 8354

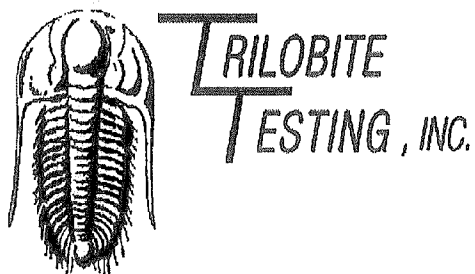
Inside

Drilling Oil Inc

24-15-18-Ellis-Ks

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil Inc**

Box 550
Hays Ks 67601

ATTN: Terry Piesker

24-15-18-Ellis-Ks

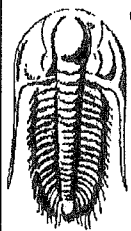
Kuhn A # 1

Start Date: 2010.04.14 @ 00:26:34

End Date: 2010.04.14 @ 06:55:04

Job Ticket #: 38187 DST #: 2

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

Kuhn A # 1

Box 550
Hays Ks 67601

24-15-18-Ellis-Ks

Job Ticket: 38187

DST#: 2

ATTN: Terry Plesker

Test Start: 2010.04.14 @ 00:26:34

GENERAL INFORMATION:

Formation: **D LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:06:49

Time Test Ended: 06:55:04

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3315.00 ft (KB) To 3340.00 ft (KB) (TVD)**

Reference Elevations: 2005.00 ft (KB)

Total Depth: 3340.00 ft (KB) (TVD)

1997.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 181.41 psig @ 3316.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.14

End Date:

2010.04.14

Last Calib.: 2010.04.14

Start Time: 00:26:35

End Time:

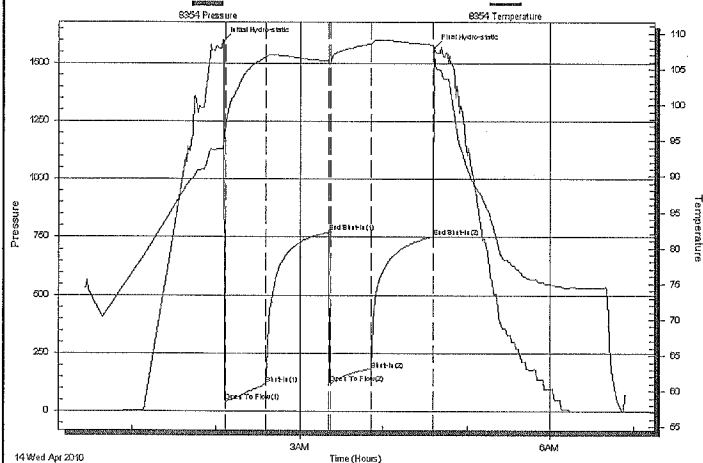
06:55:04

Time On Btm: 2010.04.14 @ 02:05:34

Time Off Btm: 2010.04.14 @ 04:36:19

TEST COMMENT: IF-Strong B-B in 1 min
ISI-Strong B-B in 5 min
FF-Strong B-B in 30 sec - GTS
FSI-Strong B-B in 3 min

Pressure vs. Time



PRESSURE SUMMARY

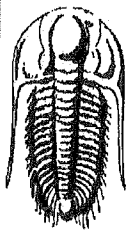
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1593.50	94.81	Initial Hydro-static
2	42.51	97.28	Open To Flow (1)
31	117.45	106.67	Shut-In(1)
75	771.24	106.13	End Shut-In(1)
77	121.03	105.78	Open To Flow (2)
106	181.41	108.50	Shut-In(2)
150	753.37	108.38	End Shut-In(2)
151	1565.28	107.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Wtr	0.28
62.00	Frothy Gsy O	0.87
375.00	OGsyO 20%g 80%o	5.26

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Drilling Oil Inc

Kuhn A # 1

Box 550
Hays Ks 67601

24-15-18-Ellis-Ks

Job Ticket: 38187

DST#: 2

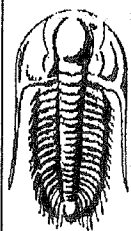
ATTN: Terry Plesker

Test Start: 2010.04.14 @ 00:26:34

Tool Information

Drill Pipe:	Length:	3308.00 ft	Diameter:	3.80 inches	Volume:	46.40 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	46.40 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft						String Weight: Initial	48000.00 lb
Depth to Top Packer:	3315.00 ft						Final	50000.00 lb
Depth to Bottom Packer:	ft							
Interval between Packers:	25.00 ft							
Tool Length:	45.00 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			3296.00	
Shut In Tool	5.00			3301.00	
Hydraulic tool	5.00			3306.00	
Packer	5.00			3311.00	20.00 Bottom Of Top Packer
Packer	4.00			3315.00	
Stubb	1.00			3316.00	
Recorder	0.00	8354	Inside	3316.00	
Recorder	0.00	8520	Outside	3316.00	
Perforations	21.00			3337.00	
Bullnose	3.00			3340.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dreiling Oil Inc

Kuhn A # 1

Box 550
Hays Ks 67601

24-15-18-Ellis-Ks

Job Ticket: 38187

DST#: 2

ATTN: Terry Plesker

Test Start: 2010.04.14 @ 00:26:34

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

65000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Wtr	0.281
62.00	Frothy Gsy O	0.870
375.00	CGsyO 20%g 80%o	5.260

Total Length: 457.00 ft

Total Volume: 6.411 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

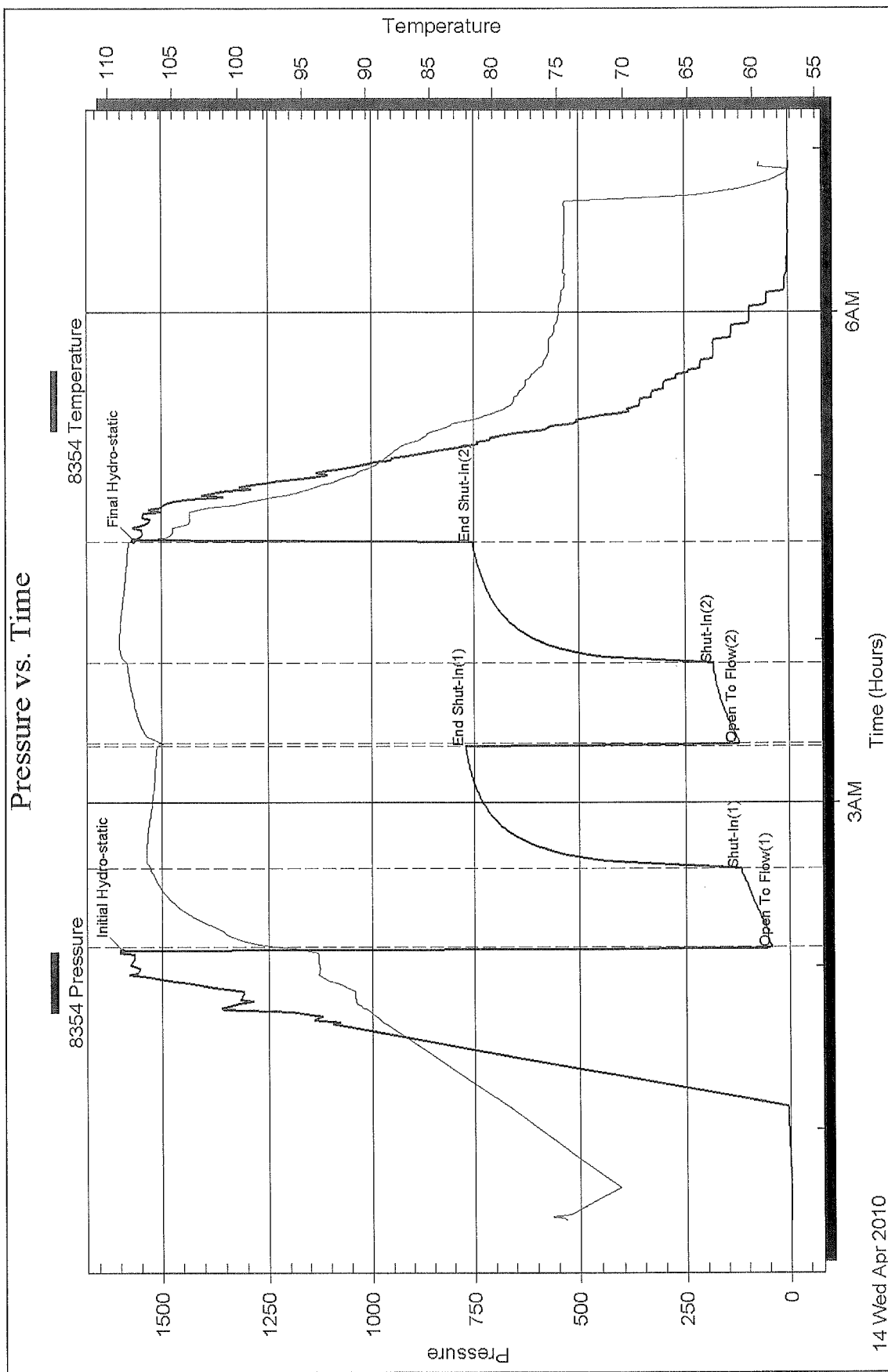
Serial #:

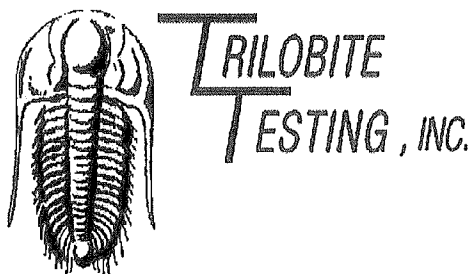
Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .10 @ 80 = 65000ppm

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Dreiling Oil Inc**

Box 550
Hays Ks 67601

ATTN: Terry Piesker

24-15-18-Ellis-Ks

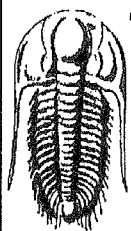
Kuhn A # 1

Start Date: 2010.04.15 @ 04:40:00

End Date: 2010.04.15 @ 10:48:30

Job Ticket #: 38188 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

Kuhn A # 1

Box 550
Hays Ks 67601

24-15-18-Ellis-Ks

Job Ticket: 38188

DST#: 3

ATTN: Terry Flesker

Test Start: 2010.04.15 @ 04:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:08:00

Time Test Ended: 10:48:30

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3533.00 ft (KB) To 3570.00 ft (KB) (TVD)

Reference Elevations: 2005.00 ft (KB)

Total Depth: 3570.00 ft (KB) (TVD)

1997.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 63.96 psig @ 3534.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.15

End Date:

2010.04.15

Last Calib.:

2010.04.15

Start Time: 04:40:01

End Time:

10:48:30

Time On Btm:

2010.04.15 @ 06:06:45

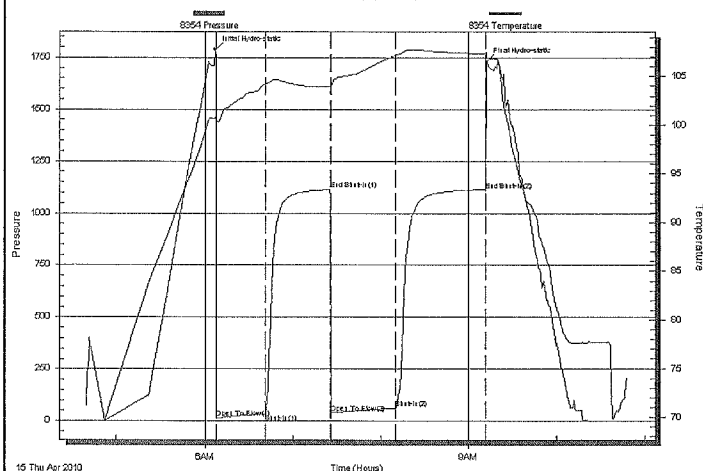
Time Off Btm:

2010.04.15 @ 09:12:30

TEST COMMENT: IF-Weak building to 10" fair blow

FF-Weak building to 6" fair blow

Pressure vs. Time



PRESSURE SUMMARY

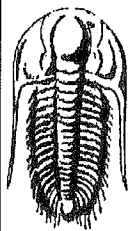
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1787.07	100.71	Initial Hydro-static
2	14.93	100.23	Open To Flow (1)
34	35.88	104.19	Shut-In(1)
79	1113.56	103.90	End Shut-In(1)
80	39.89	103.83	Open To Flow (2)
124	63.96	107.12	Shut-In(2)
185	1111.59	107.30	End Shut-In(2)
186	1730.71	107.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCGsyO 5%g 55%o 40%m	1.74
65.00	CGsyO 5%g 95%o	0.91
0.00	375 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dreilling Oil Inc

Kuhn A # 1

Box 550
Hays Ks 67601

24-15-18-Ellis-Ks

Job Ticket: 38188

DST#: 3

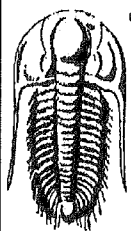
ATTN: Terry Plesker

Test Start: 2010.04.15 @ 04:40:00

Tool Information

Drill Pipe:	Length: 3530.00 ft	Diameter: 3.80 inches	Volume: 49.52 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 49.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3533.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	57.00 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			3514.00	
Shut In Tool	5.00			3519.00	
Hydraulic tool	5.00			3524.00	
Packer	5.00			3529.00	20.00 Bottom Of Top Packer
Packer	4.00			3533.00	
Stubb	1.00			3534.00	
Recorder	0.00	8354	Inside	3534.00	
Recorder	0.00	8520	Outside	3534.00	
Perforations	33.00			3567.00	
Bullnose	3.00			3570.00	37.00 Bottom Packers & Anchor
Total Tool Length:	57.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Drilling Oil Inc

Kuhn A # 1

Box 550
Hays Ks 67601

24-15-18-Ellis-Ks

Job Ticket: 38188

DST#: 3

ATTN: Terry Flesker

Test Start: 2010.04.15 @ 04:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MCGsyO 5%g 55%o 40%m	1.739
65.00	CGsyO 5%g 95%o	0.912
0.00	375 GIP	0.000

Total Length: 189.00 ft

Total Volume: 2.651 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

