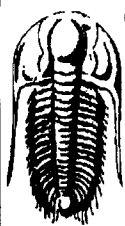


32-9s-17w

15-163-23793-0000


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Nixon, RP Operations

Hilgers #6

207 w 12th
Hays Ks 67601

Sec32Twp9sRge17w

Job Ticket: 35193

DST#: 1

ATTN: Brad

Test Start: 2009.03.31 @ 20:18:12

GENERAL INFORMATION:

Formation: LKC "C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:33:12

Time Test Ended: 01:40:12

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 42

Interval: 3280.00 ft (KB) To 3320.00 ft (KB) (TVD)

Total Depth: 3320.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2112.00 ft (KB)

2107.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6625

Outside

Press@RunDepth: 28.58 psig @ 3285.02 ft (KB)

Start Date: 2009.03.31

End Date:

2009.04.01

Capacity: 7000.00 psig

Last Calib.: 2009.04.01

Start Time: 20:18:17

End Time:

01:40:11

Time On Btm: 2009.03.31 @ 22:31:42

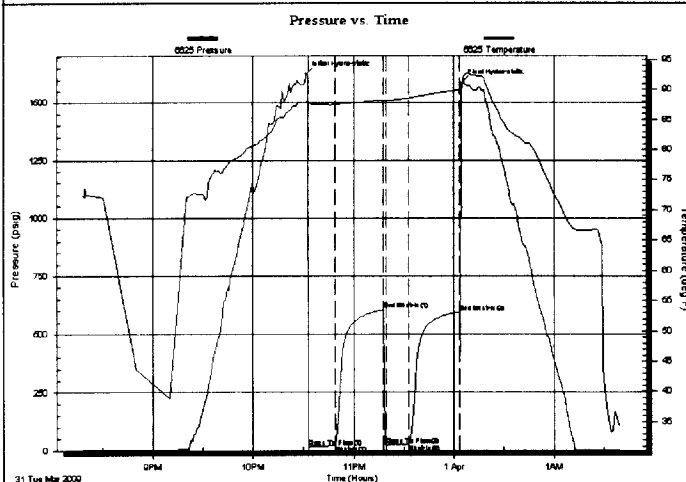
Time Off Btm: 2009.04.01 @ 00:04:12

TEST COMMENT: IF- weak surface blow .5in

IS- No blow

FF- very weak surface blow died in 3min

FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1623.02	87.93	Initial Hydro-static
2	16.07	87.70	Open To Flow (1)
17	22.69	87.52	Shut-In(1)
46	604.06	88.23	End Shut-In(1)
48	24.40	88.12	Open To Flow (2)
61	28.58	88.54	Shut-In(2)
92	595.44	89.93	End Shut-In(2)
93	1584.18	90.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud	0.11

Gas Rates

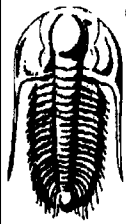
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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32-9-17w



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Nixon, RP Operations

Hilgers #6

207 w 12th
Hays Ks 67601

Sec32Twp9sRge17w

Job Ticket: 35193

DST#: 1

ATTN: Brad

Test Start: 2009.03.31 @ 20:18:12

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud	0.106

Total Length: 15.00 ft

Total Volume: 0.106 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

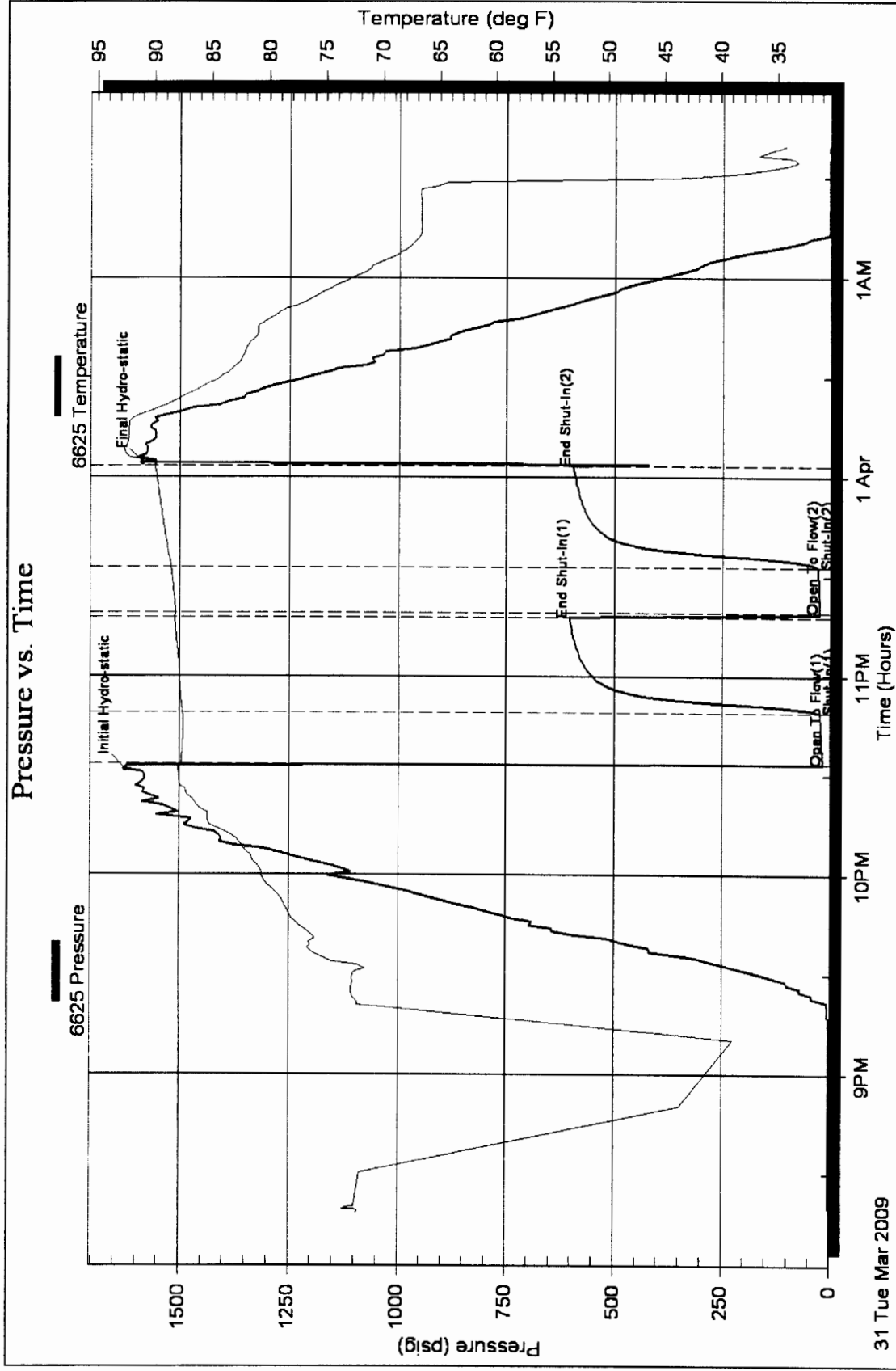
Recovery Comments:

Serial #: 6625

Outside Nixon, RP Operations

Sec32Tw p9s Rge17w

DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Nixon, RP Operations

207 w 12t
Hays Ks 67601-3810

ATTN: Brad Hutchison

Hilgers #6

32-9s-17w Rooks

Job Ticket: 36294

DST#: 2

Test Start: 2009.04.01 @ 12:04:13

GENERAL INFORMATION:

Formation: **LKC**

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

Time Tool Opened: 13:57:38

Time Test Ended: 18:05:07

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3350.00 ft (KB) To 3390.00 ft (KB) (TVD)**

Total Depth: **3390.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2112.00 ft (KB)**

2107.00 ft (CF)

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

Serial #: 8365

Inside

Press@RunDepth: **293.64 psig @ 3355.01 ft (KB)**

Start Date: **2009.04.01**

End Date:

2009.04.01

Capacity: **7000.00 psig**

Last Calib.: **2009.04.01**

Start Time: **12:04:13**

End Time:

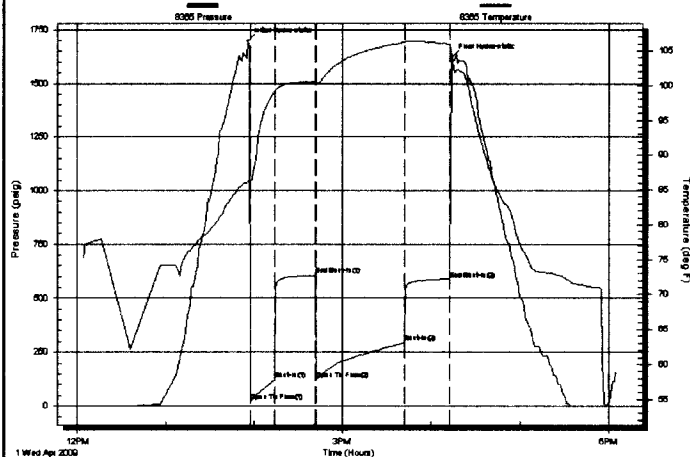
18:05:07

Time On Btm: **2009.04.01 @ 13:55:38**

Time Off Btm: **2009.04.01 @ 16:13:38**

TEST COMMENT: IFP-w k to strg in 15 min
FFP-w k to strg in 25 min
Times 15-30-60-30
no bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1697.01	86.09	Initial Hydro-static
2	19.69	86.26	Open To Flow (1)
19	121.81	99.26	Shut-In(1)
46	605.75	100.51	End Shut-In(1)
47	123.77	100.27	Open To Flow (2)
106	293.64	106.20	Shut-In(2)
137	586.22	105.97	End Shut-In(2)
138	1621.06	104.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	MW 20%MB0%W w/show of oil	0.71
480.00	Water	4.70

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Nixon, RP Operations

Hilgers #6

207 w 12t
Hays Ks 67601-3810

32-9s-17w Rooks

Job Ticket: 36294

DST#: 2

ATTN: Brad Hutchison

Test Start: 2009.04.01 @ 12:04:13

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:

99000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	MW 20% M80% W w/show of oil	0.708
480.00	Water	4.698

Total Length: 580.00 ft

Total Volume: 5.406 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

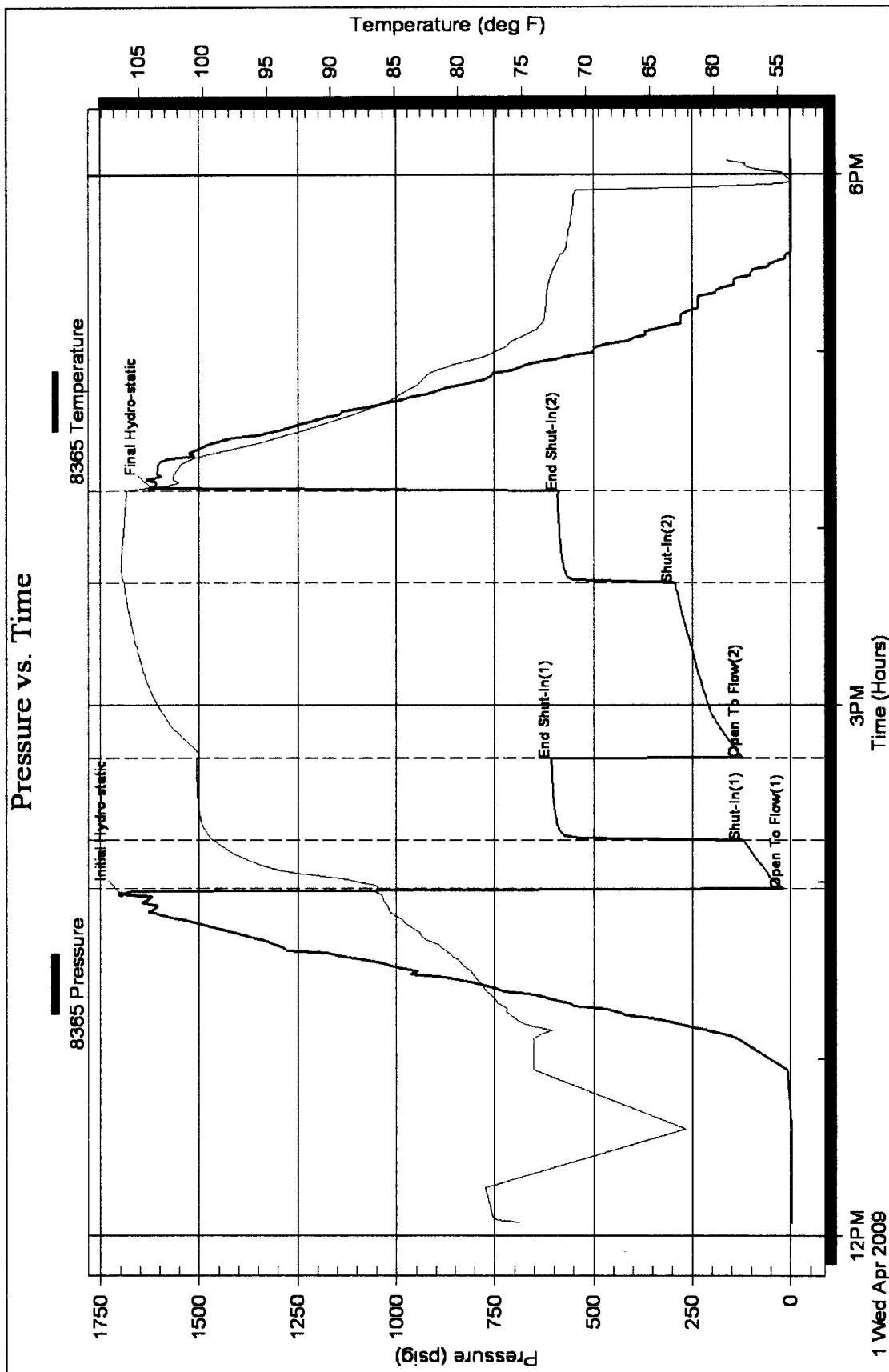
Recovery Comments: RW .08 @ 67F

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Pressure vs. Time





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DRILL STEM TEST REPORT

Nixon, RP Operations

207 w 12t
Hays Ks 67601-3810

ATTN: Brad Hutchison

Hilgers #6

32-9s-17w Rooks

Job Ticket: 36295

DST#: 3

Test Start: 2009.04.02 @ 08:33:14

GENERAL INFORMATION:

Formation: **LKC I-K**

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

Time Tool Opened: 10:22:39

Time Test Ended: 13:26:08

Test Type: **Conventional Bottom Hole**

Tester: **Brett Dickinson**

Unit No: **42**

Interval: **3420.00 ft (KB) To 3490.00 ft (KB) (TVD)**

Total Depth: **3490.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2112.00 ft (KB)**

2107.00 ft (CF)

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

Serial #: 8365

Inside

Press@RunDepth: **29.82 psig @ 3425.01 ft (KB)**

Start Date: **2009.04.02**

End Date:

2009.04.02

Start Time: **08:33:14**

End Time:

13:26:08

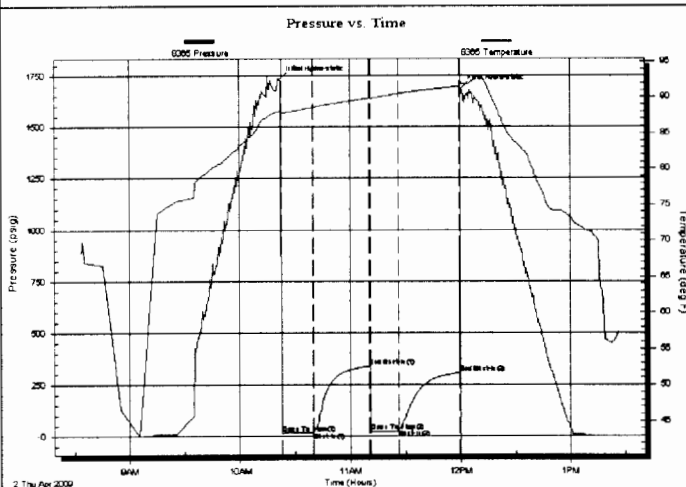
Capacity: **7000.00 psig**

Last Calib.: **2009.04.02**

Time On Btm: **2009.04.02 @ 10:21:39**

Time Off Btm: **2009.04.02 @ 12:00:09**

TEST COMMENT: IFP-w k bl thru-out 1/8"bl
FFP-w k surface bl thru-out
Times 15-30-15-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1731.09	88.07	Initial Hydro-static
1	15.45	87.71	Open To Flow (1)
18	19.86	88.61	Shut-In(1)
49	338.25	89.86	End Shut-In(1)
50	20.52	89.80	Open To Flow (2)
65	29.82	90.49	Shut-In(2)
98	305.35	91.55	End Shut-In(2)
99	1687.64	91.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.04

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Nixon, RP Operations

Hilgers #6

207 w 12t
Hays Ks 67601-3810

32-9s-17w Rooks

Job Ticket: 36295

DST#: 3

ATTN: Brad Hutchison

Test Start: 2009.04.02 @ 08:33:14

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 7.97 in³
Resistivity: ohm.m
Salinity: 3900.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.035

Total Length: 5.00 ft Total Volume: 0.035 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

