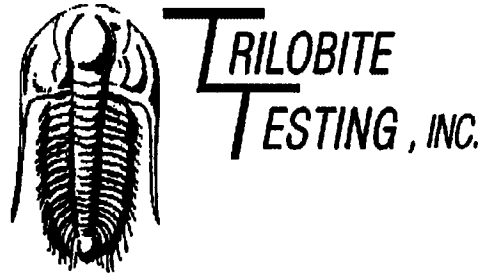


15-065-23606

6-6s-23w



DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating, Inc.**

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

6-6s-23w Graham KS

Wyrill #6-1

Start Date: 2010.01.03 @ 18:50:20

End Date: 2010.01.04 @ 01:17:14

Job Ticket #: 36751 DST #: 1

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

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H&C Oil Operating, Inc.

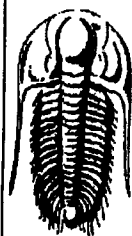
Wyrill #6-1

6-6s-23w Graham KS

DST # 1

Toronto

2010.01.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

Wyrill #6-1

PO Box 86
Plainville, KS 67663

6-6s-23w Graham KS

ATTN: Marc Dow ning

Job Ticket: 36751 **DST#: 1**

Test Start: 2010.01.03 @ 18:50:20

GENERAL INFORMATION:

Formation: **Toronto**

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

Time Tool Opened: 20:56:45

Time Test Ended: 01:17:14

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbak**

Unit No: **41**

Interval: **3594.00 ft (KB) To 3630.00 ft (KB) (TVD)**

Reference Elevations: **2436.00 ft (KB)**

Total Depth: **3630.00 ft (KB) (TVD)**

2431.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8371 Outside

Press@RunDepth: **54.77 psig @ 3602.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.01.03**

End Date:

2010.01.04

Last Calib.: **2010.01.04**

Start Time: **18:50:20**

End Time:

01:17:14

Time On Btm: **2010.01.03 @ 20:54:45**

Time Off Btm: **2010.01.03 @ 23:56:45**

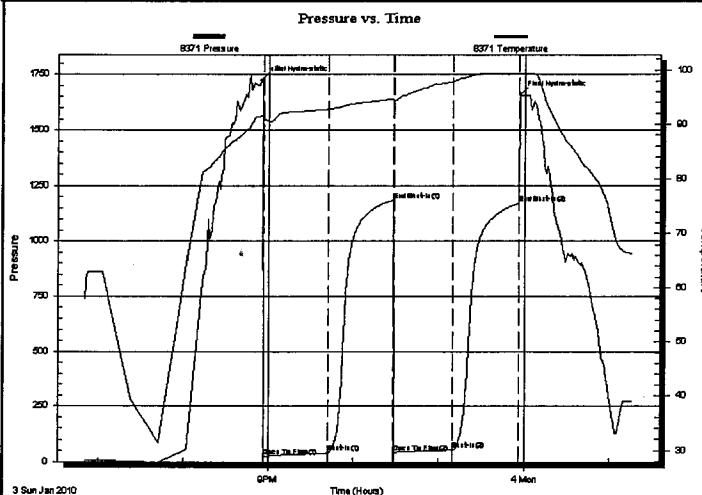
TEST COMMENT: IFP - weak to strong blow 1/2" - 9"

ISI - no blow back

FFP - BOB 43 min.

FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1724.08	91.58	Initial Hydro-static
2	24.05	90.72	Open To Flow (1)
48	40.44	92.77	Shut-In(1)
93	1185.06	94.66	End Shut-In(1)
94	43.86	94.29	Open To Flow (2)
135	54.77	97.91	Shut-In(2)
181	1170.79	99.31	End Shut-In(2)
182	1662.10	99.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	HOCM 50%O, 50%M	1.05
10.00	MCO 75%O, 25%M	0.14
0.00	60' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

Wyrill #6-1

PO Box 86
Plainville, KS 67663

6-6s-23w Graham KS

Job Ticket: 36751

DST#: 1

ATTN: Marc Downing

Test Start: 2010.01.03 @ 18:50:20

Tool Information

Drill Pipe:	Length: 3602.00 ft	Diameter: 3.80 inches	Volume: 50.53 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: 45000.00 lb
			<u>Total Volume: 50.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3594.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3579.00	
Hydraulic tool	5.00			3584.00	
Packer	5.00			3589.00	20.00 Bottom Of Top Packer
Packer	5.00			3594.00	
Stubb	1.00			3595.00	
Perforations	7.00			3602.00	
Recorder	0.00	8018	Inside	3602.00	
Recorder	0.00	8371	Outside	3602.00	
Perforations	25.00			3627.00	
Bullnose	3.00			3630.00	36.00 Bottom Packers & Anchor
Total Tool Length:	56.00				

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**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

Wyrill #6-1

PO Box 86
Plainville, KS 67663

6-6s-23w Graham KS

Job Ticket: 36751 DST#: 1

ATTN: Marc Downing

Test Start: 2010.01.03 @ 18:50:20

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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.88 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

Recovery information

Recovery Table

Length ft	Description	Volume bbl
75.00	HOCM 50%O, 50%M	1.052
10.00	MCO 75%O, 25%M	0.140
0.00	60' GIP	0.000

Total Length: 85.00 ft Total Volume: 1.192 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

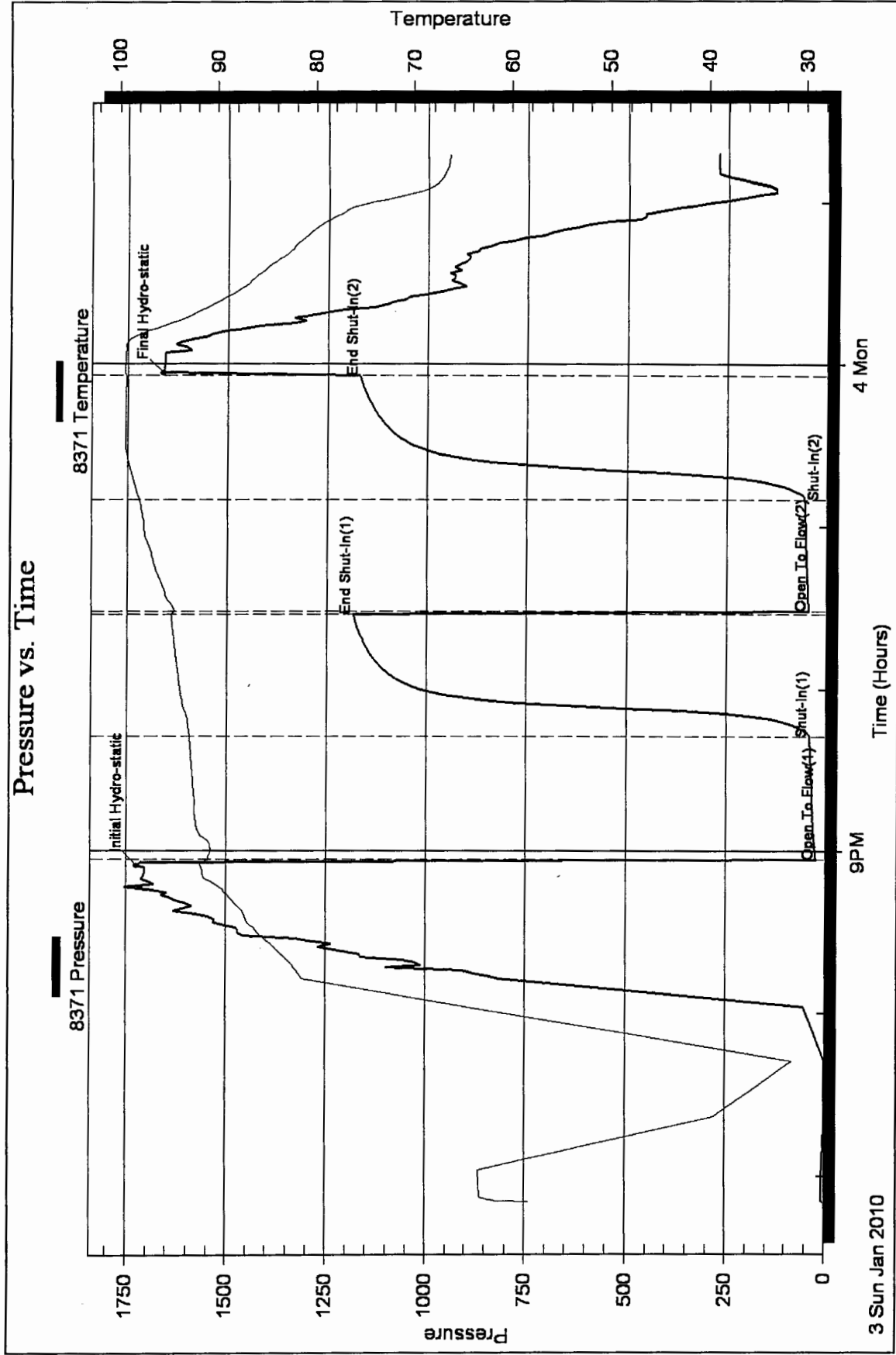
Serial #: 8371

Outside H&COil Operating, Inc.

6-6s-23w Graham KS

DST Test Number: 1

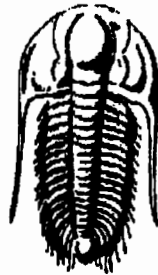
Pressure vs. Time



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Trilobite Testing, Inc

Ref. No: 36751



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating, Inc.**

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

6-6s-23w Graham KS

Wyrill #6-1

Start Date: 2010.01.04 @ 08:55:29

End Date: 2010.01.04 @ 15:50:53

Job Ticket #: 36752 DST #: 2

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

Wyrill #6-1

PO Box 86
Plainville, KS 67663

6-6s-23w Graham KS

ATTN: Marc Downing

Job Ticket: 36752 **DST#: 2**

Test Start: 2010.01.04 @ 08:55:29

GENERAL INFORMATION:

Formation: **LKC "A"**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: **10:32:54**
 Time Test Ended: **15:50:53**
 Interval: **3626.00 ft (KB) To 3647.00 ft (KB) (TVD)**
 Total Depth: **3647.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition:
 Test Type: **Conventional Bottom Hole**
 Tester: **Brian Fairbak**
 Unit No: **41**
 Reference Elevations: **2436.00 ft (KB)**
2431.00 ft (CF)
 KB to GR/CF: **5.00 ft**

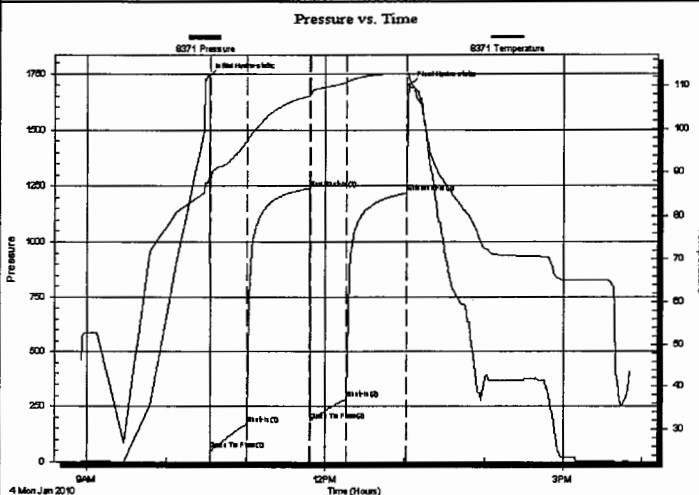
Serial #: 8371

Outside

Press@RunDepth: **283.51 psig @ 3634.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.01.04** End Date: **2010.01.04** Last Calib.: **2010.01.04**
 Start Time: **08:55:29** End Time: **15:50:53** Time On Btm: **2010.01.04 @ 10:31:24**
 Time Off Btm: **2010.01.04 @ 13:03:24**

TEST COMMENT: IFP - BOB 1 1/2 min.
 ISI - 9" blow back
 FFP - BOB 4 min.
 FSI - BOB 33 min.

PRESSURE SUMMARY



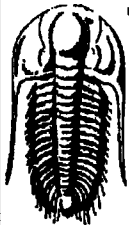
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1738.25	88.50	Initial Hydro-static
2	54.49	88.62	Open To Flow (1)
29	168.93	97.07	Shut-In(1)
77	1240.26	107.62	End Shut-In(1)
78	186.90	108.02	Open To Flow (2)
105	283.51	110.72	Shut-In(2)
151	1218.94	112.70	End Shut-In(2)
152	1698.84	111.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	SO&GCMV 5%G, 5%O, 50%W, 40%M	0.56
80.00	G&WHOCM 20%G, 40%O, 5%W, 35%M	1.12
630.00	REVERSED OUT	8.84
65.00	FREE OIL 95%O, 5%M	0.91

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

Wyrill #6-1

PO Box 86
Plainville, KS 67663

6-6s-23w Graham KS

Job Ticket: 36752 **DST#: 2**

ATTN: Marc Downing

Test Start: 2010.01.04 @ 08:55:29

Tool Information

Drill Pipe:	Length: 3634.00 ft	Diameter: 3.80 inches	Volume: 50.98 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: 48000.00 lb
		Total Volume: 50.98 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3626.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3611.00	
Hydraulic tool	5.00			3616.00	
Packer	5.00			3621.00	20.00 Bottom Of Top Packer
Packer	5.00			3626.00	
Stubb	1.00			3627.00	
Perforations	7.00			3634.00	
Recorder	0.00	8018	Inside	3634.00	
Recorder	0.00	8371	Outside	3634.00	
Perforations	10.00			3644.00	
Bullnose	3.00			3647.00	21.00 Bottom Packers & Anchor
Total Tool Length:	41.00				

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**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

Wyrill #6-1

PO Box 86
Plainville, KS 67663

6-6s-23w Graham KS

Job Ticket: 36752 **DST#: 2**

ATTN: Marc Downing

Test Start: 2010.01.04 @ 08:55:29

Mud and Cushion Information

Mud Type: Polymer	Cushion Type:	Oil API: 31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 35000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.74 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1000.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	SO&GCMW 5%G, 5%O, 50%W, 40%M	0.561
80.00	G&WHOCM 20%G, 40%O, 5%W, 35%M	1.122
630.00	REVERSED OUT	8.837
65.00	FREE OIL 95%O, 5%M	0.912

Total Length: 815.00 ft Total Volume: 11.432 bbl

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

Laboratory Name: Laboratory Location:

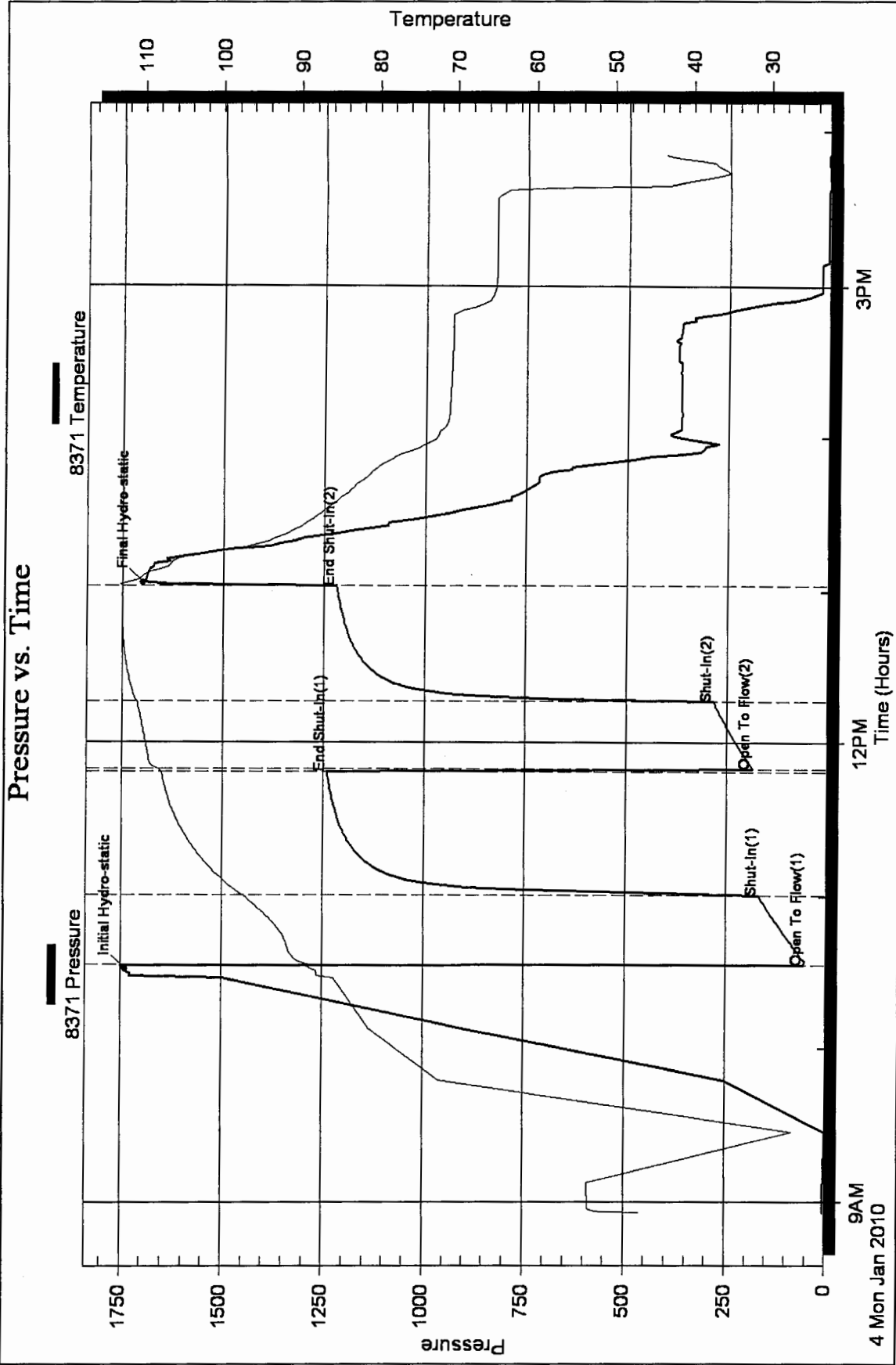
Recovery Comments: RW.508 @ 28F = 35000ppm chlorides

DST Test Number: 2

6-6s-23w Graham KS

Serial #: 8371 Outside H&COil Operating, Inc.

Pressure vs. Time

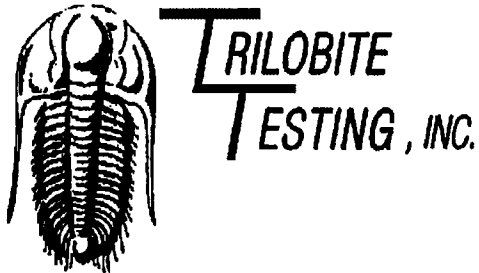


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Trilobite Testing, Inc

Ref. No: 36752



DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating, Inc.**

PO Box 86
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ATTN: Marc Downing

6-6s-23w Graham KS

Wyrill #6-1

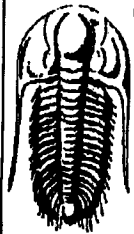
Start Date: 2010.01.04 @ 23:18:22

End Date: 2010.01.05 @ 05:49:46

Job Ticket #: 36753 DST #: 3

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

H&C Oil Operating, Inc.

Wyrill #6-1

PO Box 86
Plainville, KS 67663

6-6s-23w Graham KS

Job Ticket: 36753

DST#: 3

ATTN: Marc Downing

Test Start: 2010.01.04 @ 23:18:22

GENERAL INFORMATION:

Formation: **LKC "C"**

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

Time Tool Opened: 01:23:47

Time Test Ended: 05:49:46

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbak**

Unit No: **41**

Interval: **3650.00 ft (KB) To 3672.00 ft (KB) (TVD)**

Reference Elevations: **2436.00 ft (KB)**

Total Depth: **3672.00 ft (KB) (TVD)**

2431.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8371

Outside

Press@RunDepth: **1134.36 psig @ 3654.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.01.04**

End Date:

2010.01.05

Last Calib.:

2010.01.05

Start Time: **23:18:22**

End Time:

05:49:46

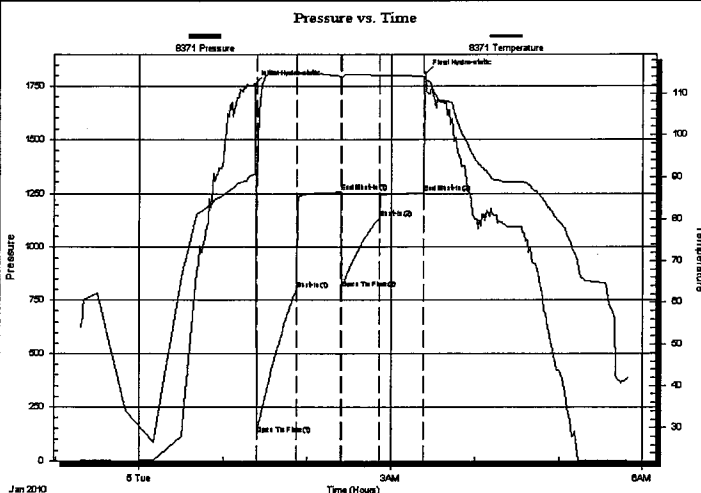
Time On Btm:

2010.01.05 @ 01:22:17

Time Off Btm:

2010.01.05 @ 03:24:17

TEST COMMENT: IFP - BOB 1 min.
ISI - sur. blow back - died 8 min.
FFP - BOB 1 min.
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1758.13	90.68	Initial Hydro-static
2	123.99	89.92	Open To Flow (1)
30	800.60	114.74	Shut-In(1)
62	1255.11	114.04	End Shut-In(1)
63	806.57	113.77	Open To Flow (2)
90	1134.36	114.30	Shut-In(2)
121	1251.92	113.96	End Shut-In(2)
122	1808.95	113.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MV 95%W, 5%M	1.68
2175.00	REVERSED OUT	30.51
90.00	MV 50%W, 50%M	1.26

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

Wyrill #6-1

PO Box 86
Plainville, KS 67663

6-6s-23w Graham KS

Job Ticket: 36753

DST#: 3

ATTN: Marc Downing

Test Start: 2010.01.04 @ 23:18:22

Tool Information

Drill Pipe:	Length: 3663.00 ft	Diameter: 3.80 inches	Volume: 51.38 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: 62000.00 lb
			<u>Total Volume: 51.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3650.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3635.00	
Hydraulic tool	5.00			3640.00	
Packer	5.00			3645.00	20.00 Bottom Of Top Packer
Packer	5.00			3650.00	
Stubb	1.00			3651.00	
Perforations	3.00			3654.00	
Recorder	0.00	8018	Inside	3654.00	
Recorder	0.00	8371	Outside	3654.00	
Perforations	15.00			3669.00	
Bullnose	3.00			3672.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				

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**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

Wyrill #6-1

PO Box 86
Plainville, KS 67663

6-6s-23w Graham KS

Job Ticket: 36753

DST#: 3

ATTN: Marc Downing

Test Start: 2010.01.04 @ 23:18:22

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: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.75 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
120.00	MW 95%W, 5%M	1.683
2175.00	REVERSED OUT	30.510
90.00	MW 50%W, 50%M	1.262

Total Length: 2385.00 ft Total Volume: 33.455 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .441 @ 22F = 60000 ppm chlorides

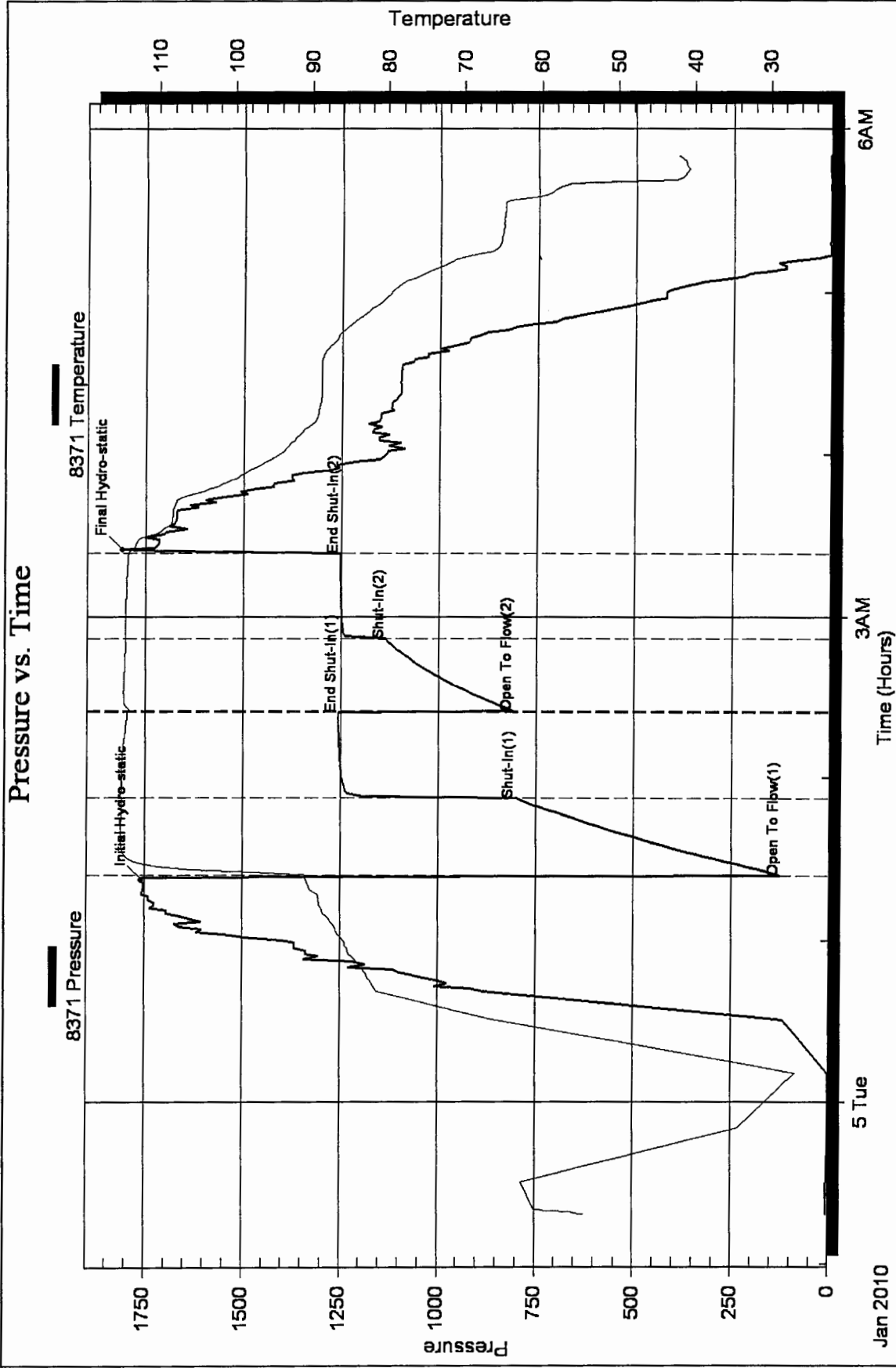
Serial #: 8371

Outside H&C Oil Operating, Inc.

6-6s-23w Graham KS

DST Test Number: 3

Pressure vs. Time



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Trilobite Testing, Inc

Ref. No: 36753



DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating, Inc.**

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

6-6s-23w Graham KS

Wyrill #6-1

Start Date: 2010.01.05 @ 15:53:40

End Date: 2010.01.05 @ 22:46:34

Job Ticket #: 36754 DST #: 4

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

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DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

Wyrill #6-1

PO Box 86
Plainville, KS 67663

6-6s-23w Graham KS

Job Ticket: 36754

DST#: 4

ATTN: Marc Downing

Test Start: 2010.01.05 @ 15:53:40

GENERAL INFORMATION:

Formation: **LKC "F"**

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

Time Tool Opened: 17:49:05

Time Test Ended: 22:46:34

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbak**

Unit No: **41**

Interval: **3680.00 ft (KB) To 3704.00 ft (KB) (TVD)**

Reference Elevations: **2436.00 ft (KB)**

Total Depth: **3704.00 ft (KB) (TVD)**

2431.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8371

Outside

Press@RunDepth: **180.26 psig @ 3681.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.01.05**

End Date:

2010.01.05

Last Calib.:

2010.01.05

Start Time: **15:53:40**

End Time:

22:46:34

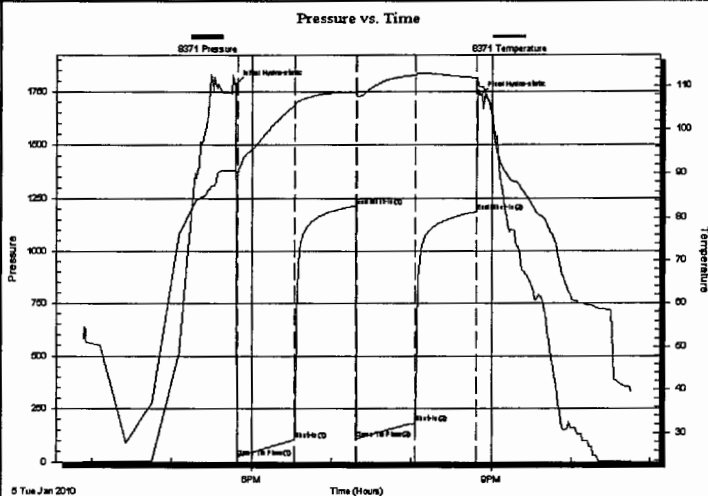
Time On Btm:

2010.01.05 @ 17:47:35

Time Off Btm:

2010.01.05 @ 20:51:34

TEST COMMENT: IFP - BOB 11 min.
ISI - 1/2" blow back throughout
FFP - BOB 13 min.
FSI - 1/2" blow back throughout



PRESSURE SUMMARY

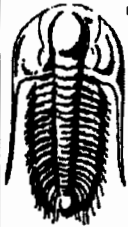
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1786.57	90.79	Initial Hydro-static
2	21.23	90.17	Open To Flow (1)
45	103.77	105.55	Shut-In(1)
91	1215.89	108.36	End Shut-In(1)
92	110.02	107.64	Open To Flow (2)
135	180.26	112.41	Shut-In(2)
181	1187.40	111.75	End Shut-In(2)
184	1732.09	109.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	MW 90%W, 10%M	3.09
60.00	SG&OCM 5%G, 5%O, 90%M	0.84
90.00	G FREE OIL 15%G, 80%O, 5%M	1.26
0.00	90' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

Wyrill #6-1

PO Box 86
Plainville, KS 67663

6-6s-23w Graham KS

Job Ticket: 36754

DST#: 4

ATTN: Marc Downing

Test Start: 2010.01.05 @ 15:53:40

Tool Information

Drill Pipe:	Length: 3693.00 ft	Diameter: 3.80 inches	Volume: 51.80 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: 51.80 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3680.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3665.00	
Hydraulic tool	5.00			3670.00	
Packer	5.00			3675.00	20.00 Bottom Of Top Packer
Packer	5.00			3680.00	
Stubb	1.00			3681.00	
Recorder	0.00	8018	Inside	3681.00	
Recorder	0.00	8371	Outside	3681.00	
Perforations	20.00			3701.00	
Bullnose	3.00			3704.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				

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**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

Wyrill #6-1

PO Box 86
Plainville, KS 67663

6-6s-23w Graham KS

Job Ticket: 36754

DST#: 4

ATTN: Marc Downing

Test Start: 2010.01.05 @ 15:53:40

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

57000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.93 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
220.00	MV 90%W, 10%M	3.086
60.00	SG&OCM 5%G, 5%O, 90%M	0.842
90.00	G FREE OIL 15%G, 80%O, 5%M	1.262
0.00	90' GIP	0.000

Total Length: 370.00 ft

Total Volume: 5.190 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .362 @ 26F = 57000 ppm chlorides

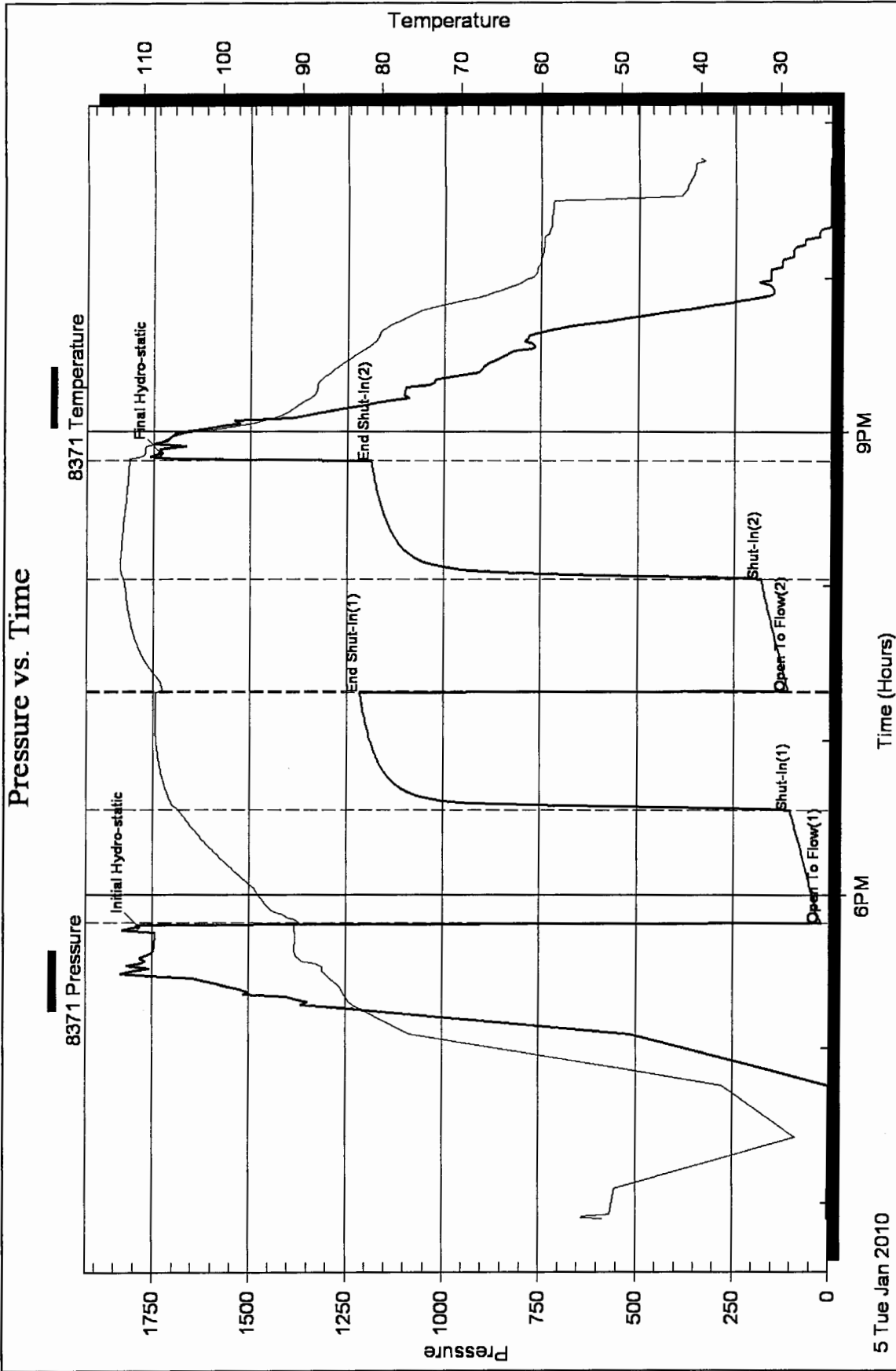
Serial #: 8371

Outside H&C Oil Operating, Inc.

6-6s-23w Graham KS

DST Test Number: 4

Pressure vs. Time

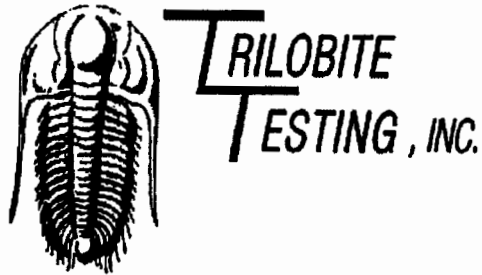


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Ref. No: 36754

Printed: 2010.01.13 @ 20:18:11 Page 5



DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating, Inc.**
PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

6-6s-23w Graham KS

Wyrill #6-1

Start Date: 2010.01.06 @ 10:08:09

End Date: 2010.01.06 @ 16:57:33

Job Ticket #: 36755 DST #: 5

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

H&C Oil Operating, Inc.

Wyrill #6-1

PO Box 86
Plainville, KS 67663

6-6s-23w Graham KS

Job Ticket: 36755

DST#: 5

ATTN: Marc Downing

Test Start: 2010.01.06 @ 10:08:09

GENERAL INFORMATION:

Formation: **LKC "H"**

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

Time Tool Opened: 11:57:04

Time Test Ended: 16:57:33

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbak**

Unit No: **41**

Interval: **3732.00 ft (KB) To 3770.00 ft (KB) (TVD)**

Reference Elevations: **2436.00 ft (KB)**

Total Depth: **3770.00 ft (KB) (TVD)**

2431.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8371

Outside

Press@RunDepth: **235.23 psig @ 3735.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.01.06**

End Date:

2010.01.06

Last Calib.: **2010.01.06**

Start Time: **10:08:08**

End Time:

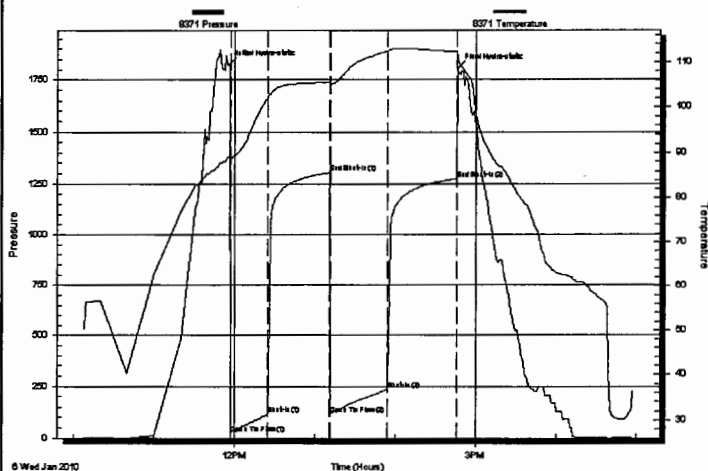
16:57:32

Time On Btm: **2010.01.06 @ 11:55:33**

Time Off Btm: **2010.01.06 @ 14:46:32**

TEST COMMENT: IFP - BOB 7 min.
ISI - 1/2" blow back throughout
FFP - BOB 9 min.
FSI - 3/4" blow back throughout

Pressure vs. Time



PRESSURE SUMMARY

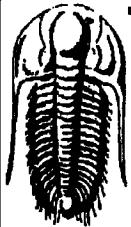
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1826.23	89.05	Initial Hydro-static
2	23.73	88.66	Open To Flow (1)
30	115.25	102.31	Shut-In(1)
76	1304.53	105.49	End Shut-In(1)
76	118.68	105.02	Open To Flow (2)
119	235.23	112.44	Shut-In(2)
170	1274.82	112.27	End Shut-In(2)
171	1806.57	110.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	MW 90%W, 10%M	4.42
90.00	HW&OCM 30%O, 30%W, 40%M	1.26
35.00	W&MCO 60%O, 10%W, 30%M	0.49
40.00	FREE OIL 90%O, 10%M	0.56
0.00	60' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

Wyrill #6-1

PO Box 86
Plainville, KS 67663

6-6s-23w Graham KS

Job Ticket: 36755

DST#: 5

ATTN: Marc Downing

Test Start: 2010.01.06 @ 10:08:09

Tool Information

Drill Pipe:	Length: 3728.00 ft	Diameter: 3.80 inches	Volume: 52.29 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: 50000.00 lb
			<u>Total Volume: 52.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3732.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3717.00	
Hydraulic tool	5.00			3722.00	
Packer	5.00			3727.00	20.00 Bottom Of Top Packer
Packer	5.00			3732.00	
Stubb	1.00			3733.00	
Perforations	1.00			3734.00	
Change Over Sub	1.00			3735.00	
Recorder	0.00	8018	Inside	3735.00	
Recorder	0.00	8371	Outside	3735.00	
Blank Spacing	31.00			3766.00	
Change Over Sub	1.00			3767.00	
Bullnose	3.00			3770.00	38.00 Bottom Packers & Anchor

Total Tool Length: 58.00

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**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

Wyrill #6-1

PO Box 86
Plainville, KS 67663

6-6s-23w Graham KS

Job Ticket: 36755

DST#: 5

ATTN: Marc Downing

Test Start: 2010.01.06 @ 10:08:09

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 7.79 in³
Resistivity: ohm.m
Salinity: 4400.00 ppm
Filter Cake: inches

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

Oil API: 30 deg API
Water Salinity: 95000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	MW 90%W, 10%M	4.419
90.00	HW&OCM 30%O, 30%W, 40%M	1.262
35.00	W&MCO 60%O, 10%W, 30%M	0.491
40.00	FREE OIL 90%O, 10%M	0.561
0.00	60' GIP	0.000

Total Length: 480.00 ft Total Volume: 6.733 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .320 @ 18F = 95000 chlorides

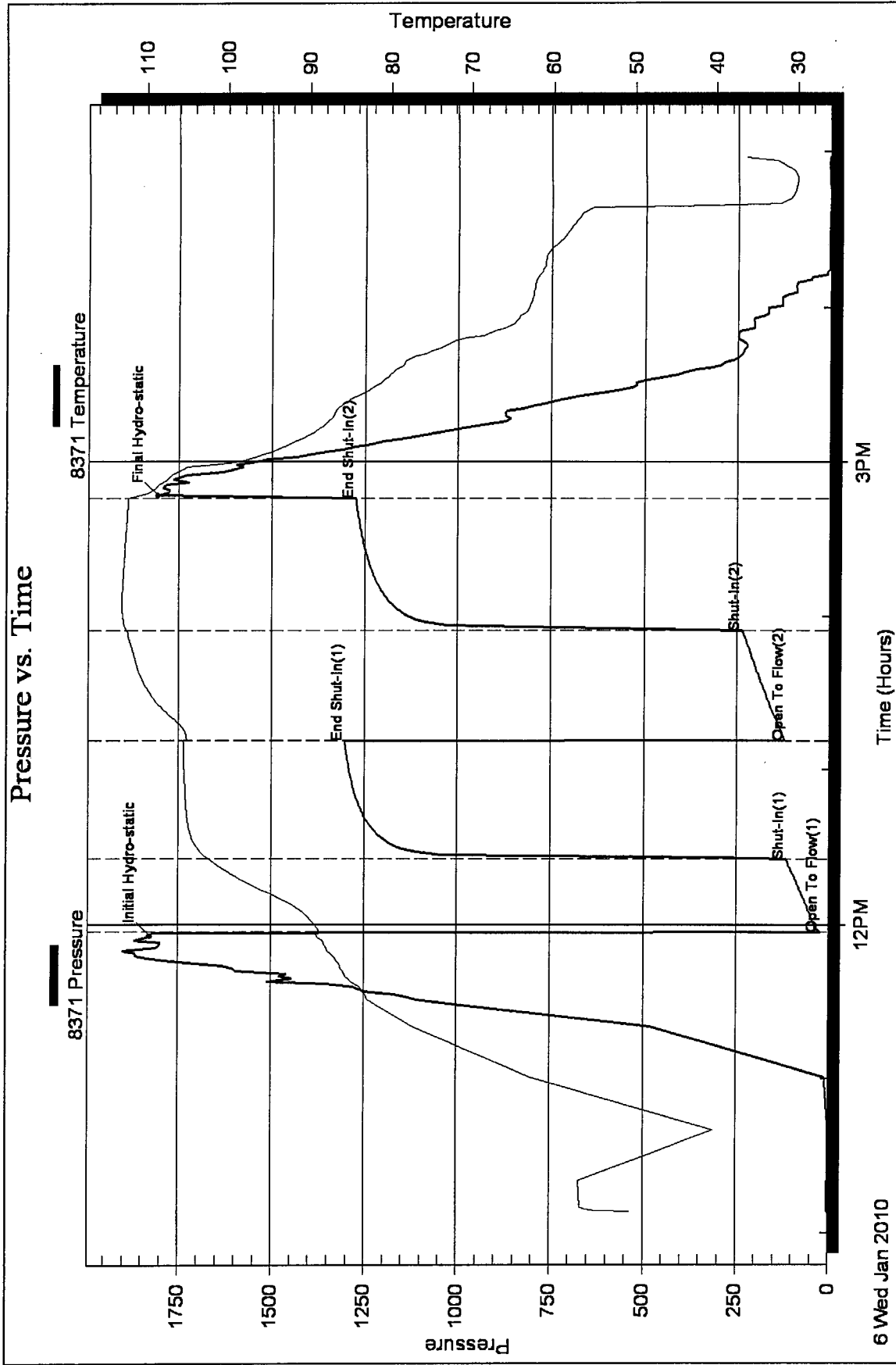
DST Test Number: 5

6-6s-23w Graham KS

Outside H&COil Operating, Inc.

Serial #: 8371

Pressure vs. Time

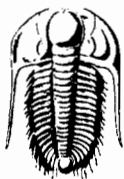


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Ref. No: 36755

Triobite Testing, Inc



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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JAN 08 2010

Test Ticket

NO. 36751 13788

Well Name & No. Wyrill #6-1 Test No. 1 Date 1-3-10
 Company H+C Elevation 2436 KB 2431 GL
 Address PO Box 86 Plainville, KY 07663
 Co. Rep / Geo. Marc Downing Rig Am Esy6 3
 Location: Sec. 6 Twp. 6^s Rge. 23^w Co. Graham State KY

Interval Tested 3594-3630 Zone Tested Toronto
 Anchor Length 36 Drill Pipe Run 3602 Mud Wt. 9.0
 Top Packer Depth 3589 Drill Collars Run — Vis 46
 Bottom Packer Depth 3594 Wt. Pipe Run — WL 11.0
 Total Depth 3630 Chlorides 1000 ppm System LCM

Blow Description IFP - weak to strong blow 1/2" - 9"
ISI - no blow back
FFP - BOB 43 min
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>GIP</u>				
<u>10</u>	<u>MCO</u>		<u>75%</u>		<u>25%</u>
<u>75</u>	<u>HOCM</u>		<u>50%</u>		<u>50%</u>

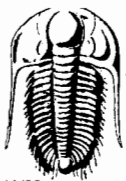
Rec Total 855 BHT 99 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1715 Test 1050- T-On Location 1706
 (B) First Initial Flow 24 Jars _____ T-Started 1850
 (C) First Final Flow 40 Safety Joint _____ T-Open 2056
 (D) Initial Shut-In 1185 Circ Sub _____ T-Pulled 2356
 (E) Second Initial Flow 44 Hourly Standby _____ T-Out 0203
 (F) Second Final Flow 55 Mileage 169 RT 169- Comments _____
 (G) Final Shut-In 1171 Sampler _____
 (H) Final Hydrostatic 1658 Straddle _____

Initial Open 45 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 45 Extra Packer _____ Ruined Packer _____
 Final Flow 45 Extra Recorder _____ Extra Copies _____
 Final Shut-In 45 Day Standby _____ Sub Total 0
 Sub Total 1219- Total 1219-

Approved By _____ Our Representative Brian Fairbank

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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Test Ticket

NO. 36752

Well Name & No. Wyrill # 6-1 Test No. 2 Date 1-4-10
 Company H&C Elevation 2436 KB 2431 GL
 Address _____
 Co. Rep / Geo. Marc Downing Rig Am Eagle 3
 Location: Sec. 6 Twp. 6^s Rge. 23^w Co. Graham State KW

Interval Tested 3626-3647 Zone Tested LKC "A"
 Anchor Length 21 Drill Pipe Run 3634 Mud Wt. 9.0
 Top Packer Depth 3621 Drill Collars Run _____ Vis 54
 Bottom Packer Depth 3626 Wt. Pipe Run _____ WL 7.8
 Total Depth 3647 Chlorides 1000 ppm System LCM _____
 Blow Description IFP- BOB 1 1/2 min
IST- 9" blow back
FFP- BOB 4 min
FST- BOB 33 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>310</u>	<u>GIP</u>				
<u>65</u>	<u>Free oil</u>		<u>95</u>		<u>5</u>
<u>630</u>	<u>Reversed out</u>				
<u>80</u>	<u>G&W HOCM</u>	<u>20</u>	<u>40</u>	<u>5</u>	<u>35</u>
<u>40</u>	<u>SO & GCMW</u>	<u>5</u>	<u>5</u>	<u>50</u>	<u>40</u>
Rec Total	<u>750</u>	BHT	<u>113</u>	Gravity	<u>31</u>
		API RW	<u>508 @ 28 °F</u>	Chlorides	<u>35,000</u> ppm

(A) Initial Hydrostatic 1738
 (B) First Initial Flow 55
 (C) First Final Flow 169
 (D) Initial Shut-In 1240
 (E) Second Initial Flow 187
 (F) Second Final Flow 284
 (G) Final Shut-In 1219
 (H) Final Hydrostatic 1691

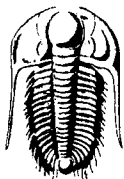
Test 1050
 Jars _____
 Safety Joint _____
 Circ Sub 50
 Hourly Standby _____
 Mileage 169 RT
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1269

T-On Location 0809
 T-Started 0855
 T-Open 1032
 T-Pulled 1302
 T-Out 1551
 Comments _____

 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1269

Initial Open 30
 Initial Shut-In 30 45
 Final Flow 30
 Final Shut-In 30 45

Approved By _____ Our Representative Brian Fairbank (thanks)
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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Test Ticket

NO. 36753

Well Name & No. Wyrill #6-1 Test No. 3 Date 1-4-10
 Company H+C Elevation 2436 KB 2431 GL
 Address _____
 Co. Rep / Geo. Marc Downing Rig Am Esq 6 3
 Location: Sec. 6 Twp. 6^s Rge. 23^w Co. Graham State Ks

Interval Tested 3650 - 3672 Zone Tested LKC 'L'
 Anchor Length 22 Drill Pipe Run 3663 Mud Wt. 9.0
 Top Packer Depth 3645 Drill Collars Run _____ Vis 54
 Bottom Packer Depth 3650 Wt. Pipe Run _____ WL 7.8
 Total Depth 3672 Chlorides 1000 ppm System LCM _____
 Blow Description IFP- BOB 1 min
FSI- sur blow back- died 8 min
FFP- BOB 1 min
FSI- no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>MW</u>		<u>50</u>		<u>50</u>
<u>2175</u>	<u>reversed out</u>				
<u>120</u>	<u>MW</u>		<u>95</u>		<u>5</u>
_____	_____				
_____	_____				

Rec Total 2385 BHT 114 Gravity _____ API RW .441 @ 22 ° F Chlorides 60,000 ppm

- (A) Initial Hydrostatic 1758
- (B) First Initial Flow 124
- (C) First Final Flow 801
- (D) Initial Shut-In 1255
- (E) Second Initial Flow 807
- (F) Second Final Flow 1134
- (G) Final Shut-In 1252
- (H) Final Hydrostatic 1717

- Test 1050'
- Jars _____
- Safety Joint _____
- Circ Sub 50'
- Hourly Standby _____
- Mileage 1169 RT
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____

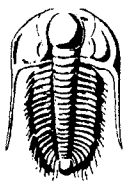
T-On Location 2229
 T-Started 2318
 T-Open 0125
 T-Pulled 0325
 T-Out 0552

Comments _____

 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1269'

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Approved By _____ Our Representative Brian Fairbank (Ahenk)
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



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P.O. Box 1733 • Hays, Kansas 67601

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Test Ticket

NO. 36754

Well Name & No. Wyrill #6-1 Test No. 4 Date 1-5-10
 Company H4C Elevation 2436 KB 2431 GL
 Address _____
 Co. Rep / Geo. Marc Downing Rig Am Eagle 3
 Location: Sec. 6 Twp. 6^s Rge. 23^w Co. Graham State K

Interval Tested 3680-3704 Zone Tested L4C "F"
 Anchor Length 24 Drill Pipe Run 3693 Mud Wt. 9.1
 Top Packer Depth 3675 Drill Collars Run — Vis 63
 Bottom Packer Depth 3680 Wt. Pipe Run — WL 8.0
 Total Depth 3704 Chlorides 4000 ppm System LCM _____

Blow Description IFP- BOB 11 min
ISI- 1/2" blow back throughout
FFP- BOB 13 min
FSI- 1/2" blow back throughout

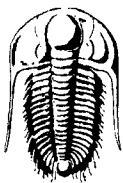
Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>GIP</u>				
<u>90</u>	<u>G Free Oil</u>	<u>15</u>	<u>80</u>		<u>5</u>
<u>60</u>	<u>SG+OCM</u>	<u>5</u>	<u>5</u>		<u>90</u>
<u>220</u>	<u>MW</u>			<u>90</u>	<u>10</u>

Rec Total 370 BHT 112 Gravity 32 API RW .362 @ 26 °F Chlorides 57,000 ppm

(A) Initial Hydrostatic 1787 Test 1050' T-On Location 1458
 (B) First Initial Flow 21 Jars _____ T-Started 1553
 (C) First Final Flow 104 Safety Joint _____ T-Open 1747
 (D) Initial Shut-In 1216 Circ Sub _____ T-Pulled 2047
 (E) Second Initial Flow 110 Hourly Standby _____ T-Out 2246
 (F) Second Final Flow 180 Mileage 169 RT Comments _____
 (G) Final Shut-In 1187 Sampler _____
 (H) Final Hydrostatic 1732 Straddle _____

Initial Open 45 Ruined Shale Packer _____
 Initial Shut-In 45 Extra Packer _____
 Final Flow 45 Extra Recorder _____
 Final Shut-In 45 Day Standby _____
 Sub Total 0
 Total 1219'
 Sub Total 1219'

Approved By _____ Our Representative Brian Fairbank (Handwritten Signature)
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 36755

RECEIVED
JAN 08 2010

10/08

Well Name & No. Wyrill #6-1 Test No. 5 Date 1-6-10
 Company H+C Elevation 2436 KB 2431 GL
 Address _____
 Co. Rep / Geo. Marc Downing Rig Am Eagle 3
 Location: Sec. 6 Twp. 6^s Rge. 23^w Co. Graham State 6

Interval Tested 3732-3770 Zone Tested LKC "H"
 Anchor Length 38 Drill Pipe Run 3728 Mud Wt. 9.2
 Top Packer Depth 3728 Drill Collars Run — Vis 55
 Bottom Packer Depth 3732 Wt. Pipe Run — WL 7.8
 Total Depth 3770 Chlorides 4400 ppm System LCM _____
 Blow Description IFP- BOB 7 min
ISI- 1/2" blow back throughout
FFP- BOB 9 min
FSI- 3/4" blow back throughout

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>GIP</u>				
<u>40</u>	<u>Free Oil</u>		<u>90</u>		<u>10</u>
<u>35</u>	<u>W+MCO</u>		<u>60</u>	<u>10</u>	<u>30</u>
<u>90</u>	<u>HW+OCM</u>		<u>30</u>	<u>30</u>	<u>40</u>
<u>315</u>	<u>MU</u>		<u>90</u>		<u>10</u>

Rec Total 480 BHT 112 Gravity 30 API RW 320 @ 18 ° F Chlorides 95,000 ppm

(A) Initial Hydrostatic 1826 Test 1050 T-On Location 0919
 (B) First Initial Flow 24 Jars _____ T-Started 1008
 (C) First Final Flow 115 Safety Joint _____ T-Open 1156
 (D) Initial Shut-In 1305 Circ Sub _____ T-Pulled 1441
 (E) Second Initial Flow 119 Hourly Standby _____ T-Out 1657
 (F) Second Final Flow 235 Mileage 1609 RT Comments _____
 (G) Final Shut-In 1275 Sampler _____
 (H) Final Hydrostatic 1774 Straddle _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 8
 Accessibility _____ Total 1219
 Sub Total 1219

Approved By _____ Our Representative Brian Fairbank (Hank)

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.