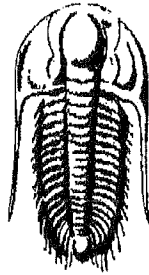


15-135-24933

34-20s-23w

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Norstar**

6855 S. Havana St. Ste. 250
Centennial, CO 80112

ATTN: Tim Priest

34-20s-23w Ness KS

Byrom #4-34

Start Date: 2009.07.19 @ 15:42:52

End Date: 2009.07.20 @ 00:54:47

Job Ticket #: 36369 DST #: 1

KCC
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Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Norstar

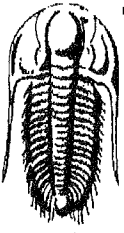
Byrom #4-34

34-20s-23w Ness KS

DST # 1

Cherokee Sand

2009.07.19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Norstar
6855 S. Havana St. Ste. 250
Centennial, CO 80112
ATTN: Tim Priest

Byrom #4-34
34-20s-23w Ness KS
Job Ticket: 36369 **DST#: 1**
Test Start: 2009.07.19 @ 15:42:52

GENERAL INFORMATION:

Formation: **Cherokee Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:30:17
Time Test Ended: 00:54:47

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41

Interval: **4296.00 ft (KB) To 4373.00 ft (KB) (TVD)**
Total Depth: 4373.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2222.00 ft (KB)
2217.00 ft (CF)
KB to GR/CF: 5.00 ft

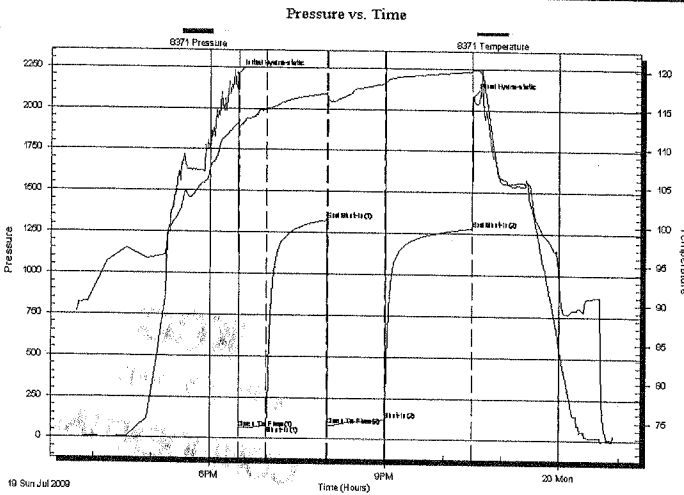
Serial #: 8371

Inside

Press@RunDepth: 117.83 psig @ 4301.00 ft (KB)
Start Date: 2009.07.19 End Date: 2009.07.20
Start Time: 15:42:52 End Time: 00:54:47

Capacity: 7000.00 psig
Last Calib.: 2009.07.20
Time On Btm: 2009.07.19 @ 18:29:17
Time Off Btm: 2009.07.19 @ 22:30:16

TEST COMMENT: IFP - weak blow throughout sur - 1 1/2"
ISI - no blow back
FFP - weak to fair blow sur - 4"
FSI - no blow back



PRESSURE SUMMARY

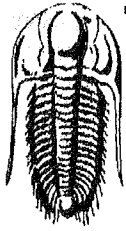
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2209.24	113.19	Initial Hydro-static
1	63.13	112.65	Open To Flow (1)
30	80.48	114.97	Shut-In(1)
90	1326.21	116.98	End Shut-In(1)
91	81.73	116.32	Open To Flow (2)
150	117.83	118.27	Shut-In(2)
240	1280.83	119.92	End Shut-In(2)
241	2079.01	120.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 15%O, 85%M	0.30
60.00	HOCM 30%O, 70%M	0.30
70.00	FREE OIL 95%O, 5%M	0.34

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar
6855 S. Havana St. Ste. 250
Centennial, CO 80112

Byrom #4-34
34-20s-23w Ness KS
Job Ticket: 36369 **DST#: 1**
Test Start: 2009.07.19 @ 15:42:52

Tool Information

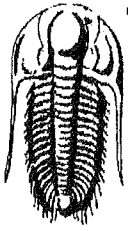
Drill Pipe:	Length: 4051.00 ft	Diameter: 3.80 inches	Volume: 56.82 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 58.03 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4296.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	104.00 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			4274.00	
Hydraulic tool	5.00			4279.00	
Jars	5.00			4284.00	
Safety Joint	2.00			4286.00	
Packer	5.00			4291.00	27.00 Bottom Of Top Packer
Packer	5.00			4296.00	
Stubb	1.00			4297.00	
Perforations	3.00			4300.00	
Change Over Sub	1.00			4301.00	
Recorder	0.00	8018	Inside	4301.00	
Recorder	0.00	8371	Inside	4301.00	
Blank Spacing	63.00			4364.00	
Change Over Sub	1.00			4365.00	
Perforations	5.00			4370.00	
Bullnose	3.00			4373.00	77.00 Bottom Packers & Anchor

Total Tool Length: 104.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar
6855 S. Havana St. Ste. 250
Centennial, CO 80112
ATTN: Tim Priest

Byrom #4-34
34-20s-23w Ness KS
Job Ticket: 36369 **DST#: 1**
Test Start: 2009.07.19 @ 15:42:52

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	35 deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	ft		
Water Loss: 8.68 in ³	Cushion Volume:		
Resistivity: ohm.m	Gas Cushion Type:		
Salinity: 3500.00 ppm	Gas Cushion Pressure:		
Filter Cake: inches	psig		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM 15%O, 85%M	0.295
60.00	HOCM 30%O, 70%M	0.295
70.00	FREE OIL 95%O, 5%M	0.344

Total Length: 190.00 ft Total Volume: 0.934 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

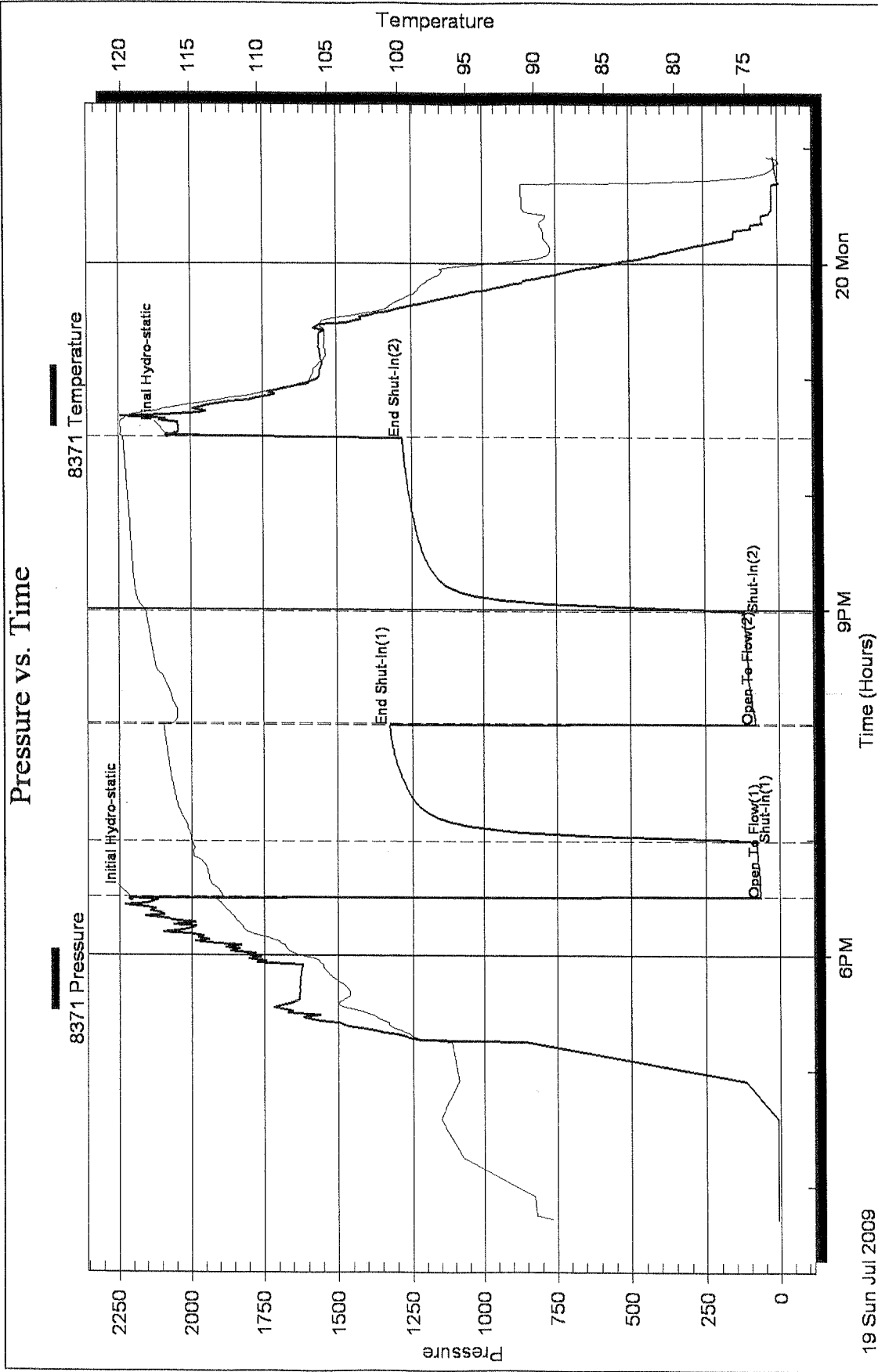
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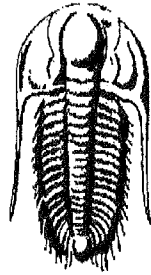
Inside Norstar

34-20s-23w Ness KS

DST Test Number: 1

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Norstar**

6855 S. Havana St. Ste. 250
Centennial, CO 80112

ATTN: Tim Priest

34-20s-23w Ness KS

Byrom #4-34

Start Date: 2009.07.20 @ 07:59:49

End Date: 2009.07.20 @ 16:17:19

Job Ticket #: 36370 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Norstar

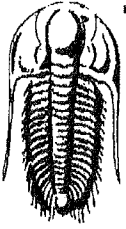
Byrom #4-34

34-20s-23w Ness KS

DST # 2

Cherokee Sand (2)

2009.07.20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Norstar
6855 S. Havana St. Ste. 250
Centennial, CO 80112
ATTN: Tim Priest

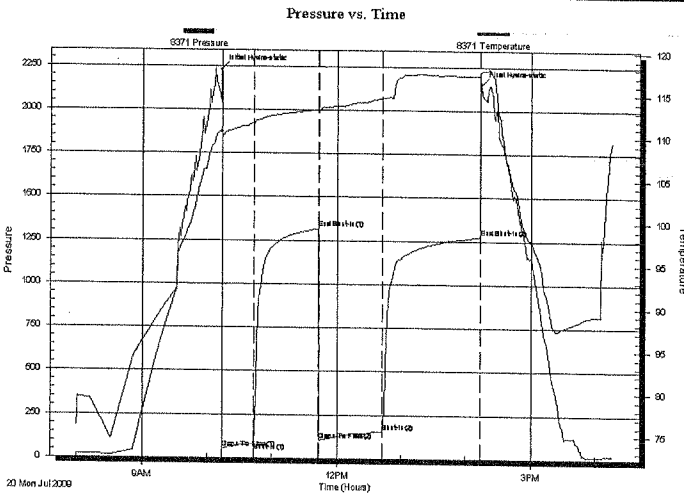
Byrom #4-34
34-20s-23w Ness KS
Job Ticket: 36370 **DST#: 2**
Test Start: 2009.07.20 @ 07:59:49

GENERAL INFORMATION:

Formation: **Cherokee Sand (2)**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:14:19
Time Test Ended: 16:17:19
Interval: **4296.00 ft (KB) To 4379.00 ft (KB) (TVD)**
Total Depth: 4379.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41
Reference Elevations: 2222.00 ft (KB)
2217.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8371 Inside
Press@RunDepth: 154.14 psig @ 4302.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2009.07.20 End Date: 2009.07.20 Last Calib.: 2009.07.20
Start Time: 07:59:54 End Time: 16:17:18 Time On Btm: 2009.07.20 @ 10:13:19
Time Off Btm: 2009.07.20 @ 14:14:48

TEST COMMENT: IFP - weak to fair blow 1/4" - 5"
ISI - no blow back
FFP - weak to good blow sur - 7 1/2"
FSI - no blow back



PRESSURE SUMMARY

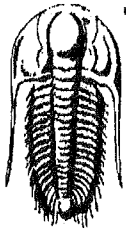
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2229.52	110.81	Initial Hydro-static
1	52.74	109.90	Open To Flow (1)
30	84.91	111.56	Shut-In(1)
90	1317.52	113.26	End Shut-In(1)
91	104.93	112.99	Open To Flow (2)
150	154.14	114.55	Shut-In(2)
240	1273.06	117.27	End Shut-In(2)
242	2148.86	117.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	VSOOM 5%O, 95%M	0.30
165.00	OCM 15%O, 85%M	0.81
75.00	FREE OIL 95%O, 5%M	0.86
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

Norstar

Byrom #4-34

6855 S. Havana St. Ste. 250
Centennial, CO 80112

34-20s-23w Ness KS

Job Ticket: 36370

DST#: 2

ATTN: Tim Priest

Test Start: 2009.07.20 @ 07:59:49

Tool Information

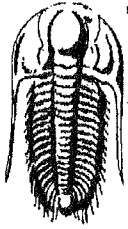
Drill Pipe:	Length: 4051.00 ft	Diameter: 3.80 inches	Volume: 56.82 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 58.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4296.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	110.00 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			4274.00	
Hydraulic tool	5.00			4279.00	
Jars	5.00			4284.00	
Safety Joint	2.00			4286.00	
Packer	5.00			4291.00	27.00 Bottom Of Top Packer
Packer	5.00			4296.00	
Stubb	1.00			4297.00	
Perforations	4.00			4301.00	
Change Over Sub	1.00			4302.00	
Recorder	0.00	8018	Inside	4302.00	
Recorder	0.00	8371	Inside	4302.00	
Blank Spacing	63.00			4365.00	
Change Over Sub	1.00			4366.00	
Perforations	10.00			4376.00	
Bullnose	3.00			4379.00	83.00 Bottom Packers & Anchor

Total Tool Length: 110.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar
6855 S. Havana St. Ste. 250
Centennial, CO 80112
ATTN: Tim Priest

Byrom #4-34
34-20s-23w Ness KS
Job Ticket: 36370 **DST#: 2**
Test Start: 2009.07.20 @ 07:59:49

Mud and Cushion Information

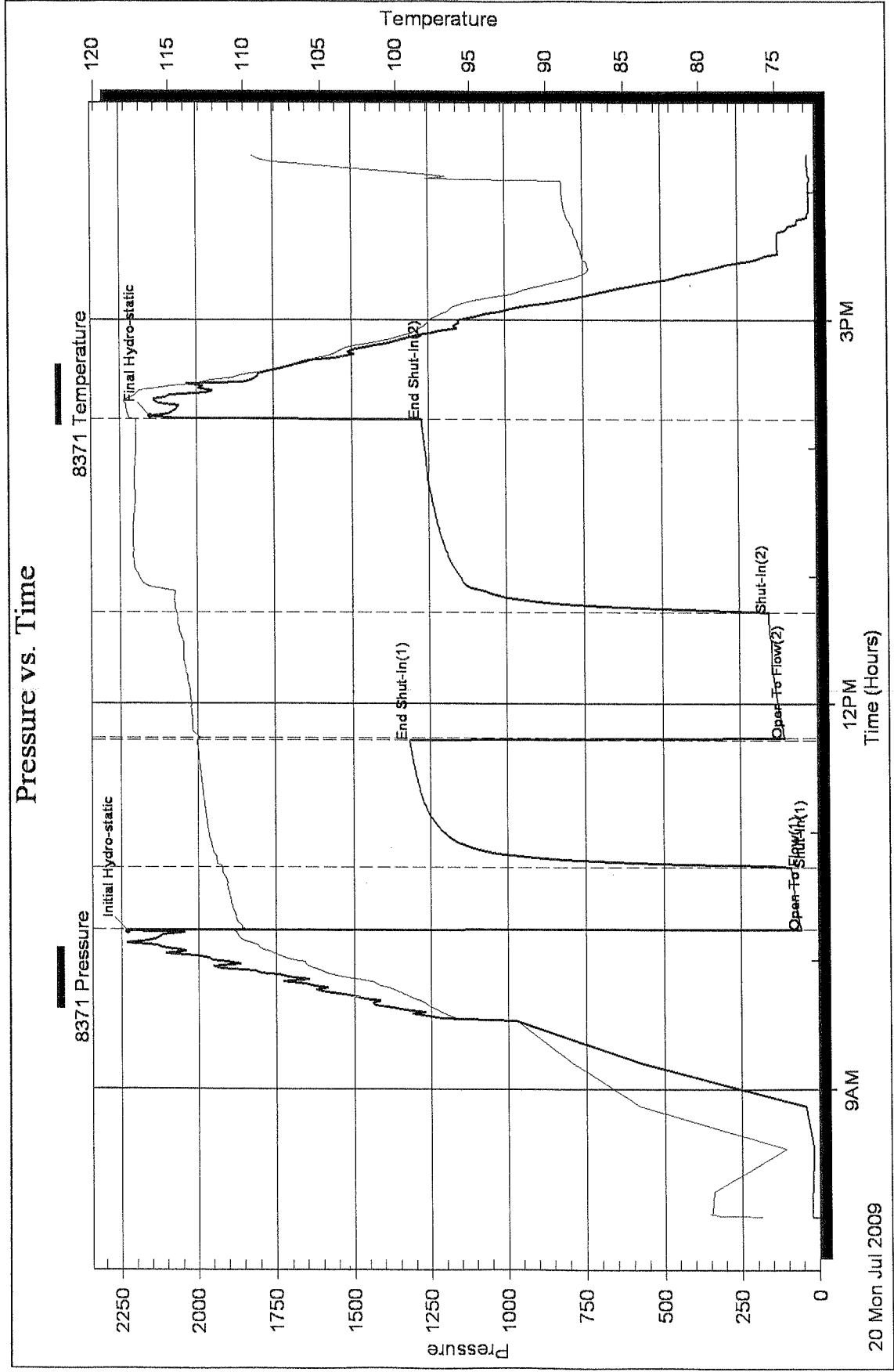
Mud Type: Gel Chem	Cushion Type:	Oil API:	35 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.30 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: inches			

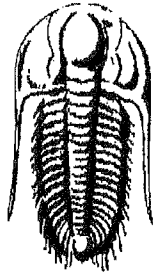
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	VSOCM 5%O, 95%M	0.295
165.00	OCM 15%O, 85%M	0.811
75.00	FREE OIL 95%O, 5%M	0.861
0.00	60' GIP	0.000

Total Length: 300.00 ft Total Volume: 1.967 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Norstar**

6855 S. Havana St. Ste. 250
Centennial, CO 80112

ATTN: Tim Priest

34-20s-23w Ness KS

Byrom #4-34

Start Date: 2009.07.21 @ 00:06:34

End Date: 2009.07.21 @ 08:37:58

Job Ticket #: 36371 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Norstar

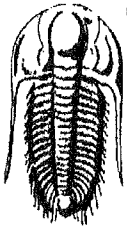
Byrom #4-34

34-20s-23w Ness KS

DST # 3

Cherokee Sand

2009.07.21



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Norstar
6855 S. Havana St. Ste. 250
Centennial, CO 80112

Byrom #4-34

34-20s-23w Ness KS

Job Ticket: 36371

DST#: 3

ATTN: Tim Priest

Test Start: 2009.07.21 @ 00:06:34

GENERAL INFORMATION:

Formation: **Cherokee Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:17:59
Time Test Ended: 08:37:58

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41

Interval: **4296.00 ft (KB) To 4385.00 ft (KB) (TVD)**
Total Depth: 4385.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2222.00 ft (KB)
2217.00 ft (CF)
KB to GR/CF: 5.00 ft

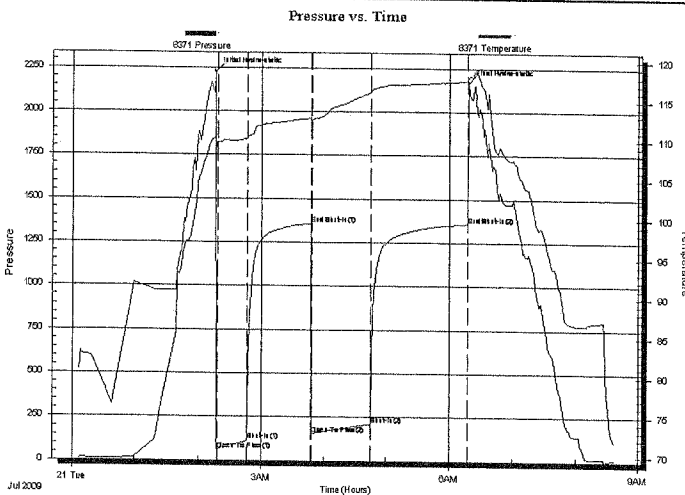
Serial #: 8371

Inside

Press@RunDepth: 210.83 psig @ 4303.00 ft (KB)
Start Date: 2009.07.21 End Date: 2009.07.21
Start Time: 00:06:34 End Time: 08:37:58

Capacity: 7000.00 psig
Last Calib.: 2009.07.21
Time On Btm: 2009.07.21 @ 02:15:59
Time Off Btm: 2009.07.21 @ 06:18:29

TEST COMMENT: IFP - weak to good blow 1" - 7"
ISI - no blow back
FFP - weak to good blow sur - 9"
FSI - no blow back



PRESSURE SUMMARY

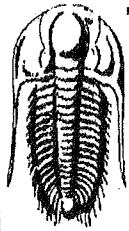
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2227.05	110.32	Initial Hydro-static
2	61.35	109.69	Open To Flow (1)
30	114.08	110.19	Shut-In(1)
92	1357.22	112.81	End Shut-In(1)
92	151.70	112.18	Open To Flow (2)
149	210.83	116.09	Shut-In(2)
242	1357.72	117.58	End Shut-In(2)
243	2167.99	118.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	VSOCM 3%O, 97%M	1.27
140.00	HOCM 25%O, 75%M	1.96

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar

Byrom #4-34

6855 S. Havana St. Ste. 250
Centennial, CO 80112

34-20s-23w Ness KS

Job Ticket: 36371

DST#: 3

ATTN: Tim Priest

Test Start: 2009.07.21 @ 00:06:34

Tool Information

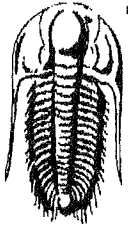
Drill Pipe:	Length: 4051.00 ft	Diameter: 3.80 inches	Volume: 56.82 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 58.03 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4296.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.00 ft			
Tool Length:	116.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:
Tool slid 2' to bottom

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4274.00	
Hydraulic tool	5.00			4279.00	
Jars	5.00			4284.00	
Safety Joint	2.00			4286.00	
Packer	5.00			4291.00	27.00 Bottom Of Top Packer
Packer	5.00			4296.00	
Stubb	1.00			4297.00	
Perforations	5.00			4302.00	
Change Over Sub	1.00			4303.00	
Recorder	0.00	8018	Inside	4303.00	
Recorder	0.00	8371	Inside	4303.00	
Blank Spacing	63.00			4366.00	
Change Over Sub	1.00			4367.00	
Perforations	15.00			4382.00	
Bullnose	3.00			4385.00	89.00 Bottom Packers & Anchor

Total Tool Length: 116.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar

Byrom #4-34

6855 S. Havana St. Ste. 250
Centennial, CO 80112

34-20s-23w Ness KS

Job Ticket: 36371

DST#: 3

ATTN: Tim Priest

Test Start: 2009.07.21 @ 00:06:34

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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.73 in ³	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
250.00	VSOCM 3%O, 97%M	1.266
140.00	HOCM 25%O, 75%M	1.964

Total Length: 390.00 ft Total Volume: 3.230 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

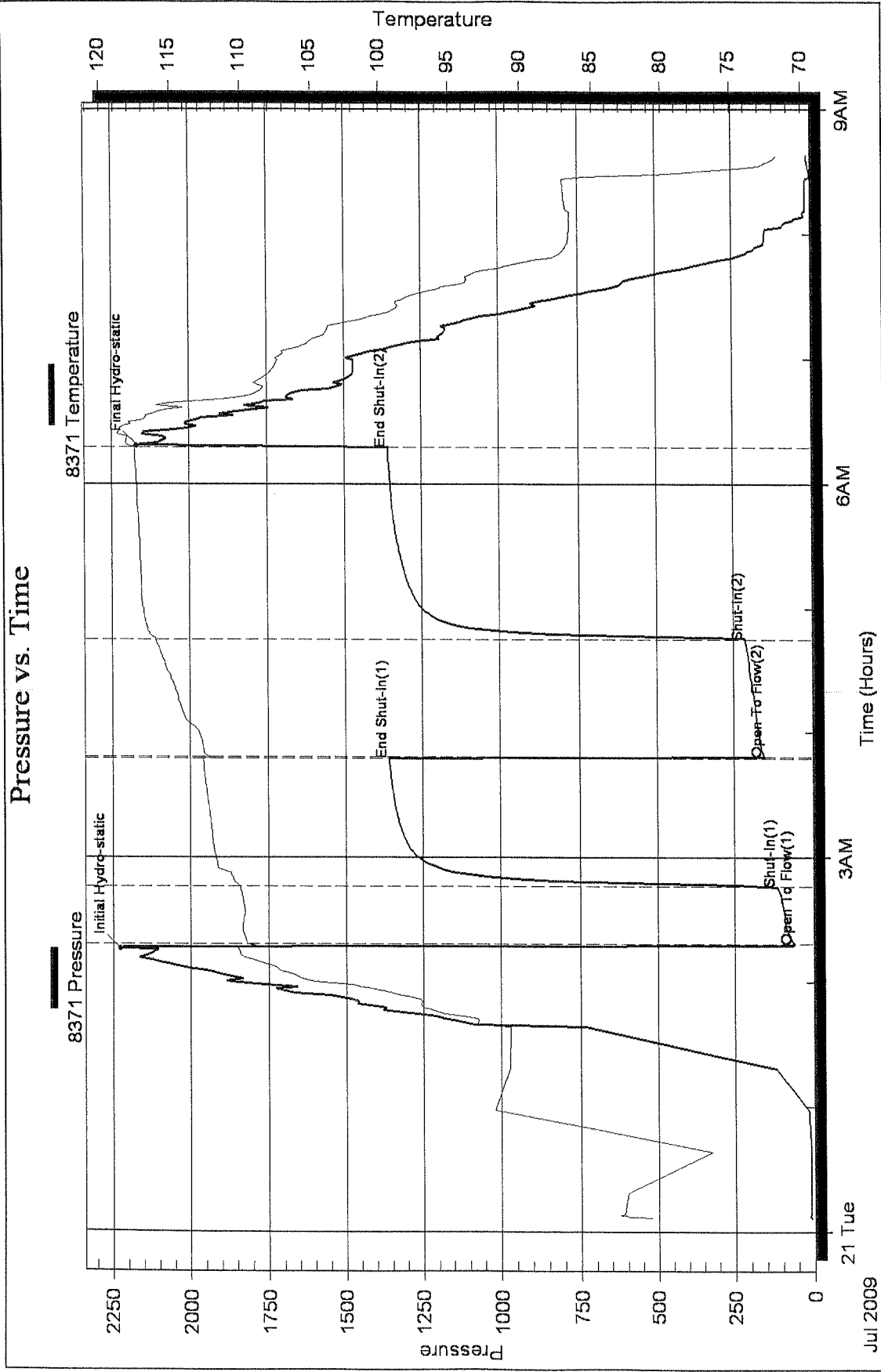
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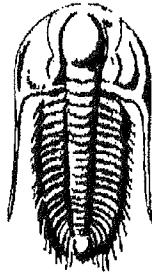
Inside Norstar

34-20s-23w Ness KS

DST Test Number: 3

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Norstar**

6855 S. Havana St. Ste. 250
Centennial, CO 80112

ATTN: Tim Priest

34-20s-23w Ness KS

Byrom #4-34

Start Date: 2009.07.21 @ 17:14:08

End Date: 2009.07.22 @ 00:41:32

Job Ticket #: 36372 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Norstar

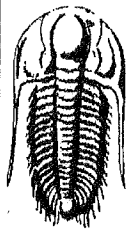
Byrom #4-34

34-20s-23w Ness KS

DST # 4

Cherokee Sand (4)

2009.07.21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Norstar

Byrom #4-34

6855 S. Havana St. Ste. 250
Centennial, CO 80112

34-20s-23w Ness KS

Job Ticket: 36372

DST#: 4

ATTN: Tim Priest

Test Start: 2009.07.21 @ 17:14:08

GENERAL INFORMATION:

Formation: **Cherokee Sand (4)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:23:03

Time Test Ended: 00:41:32

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: **4381.00 ft (KB) To 4393.00 ft (KB) (TVD)**

Total Depth: 4393.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2222.00 ft (KB)

2217.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8371 Inside

Press@RunDepth: 529.99 psig @ 4382.00 ft (KB)

Start Date: 2009.07.21

End Date:

2009.07.22

Capacity: 7000.00 psig

Start Time: 17:14:08

End Time:

00:41:32

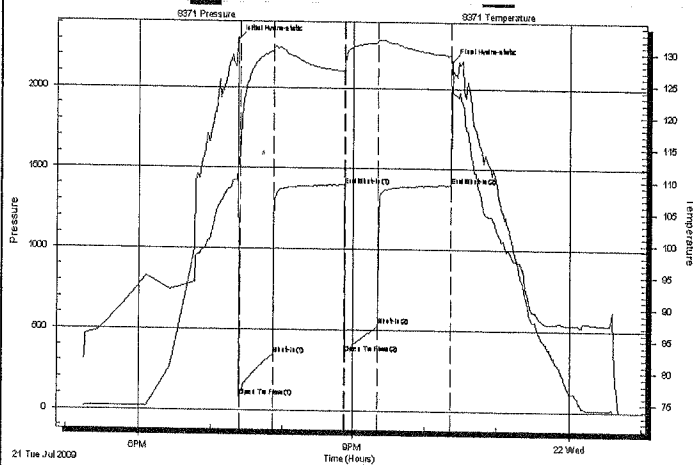
Last Calib.: 2009.07.22

Time On Btm: 2009.07.21 @ 19:22:03

Time Off Btm: 2009.07.21 @ 22:22:32

TEST COMMENT: IFP - BOB 6 min.
ISI - no blow back
FFP - BOB 6 min.
FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

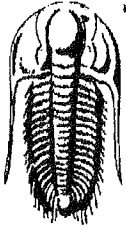
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.26	111.84	Initial Hydro-static
1	83.99	112.42	Open To Flow (1)
30	347.66	130.28	Shut-In(1)
90	1396.12	127.10	End Shut-In(1)
91	356.17	127.13	Open To Flow (2)
119	529.99	131.58	Shut-In(2)
179	1400.53	129.62	End Shut-In(2)
181	2168.74	125.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1000.00	MW 95%W, 5%M	11.79
120.00	WM 50%W, 50%M	1.68

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar

Byrom #4-34

6855 S. Havana St. Ste. 250
Centennial, CO 80112

34-20s-23w Ness KS

Job Ticket: 36372

DST#: 4

ATTN: Tim Priest

Test Start: 2009.07.21 @ 17:14:08

Tool Information

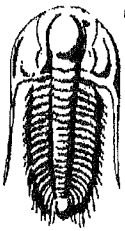
Drill Pipe:	Length: 4114.00 ft	Diameter: 3.80 inches	Volume: 57.71 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 58.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4381.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	39.00 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			4359.00	
Hydraulic tool	5.00			4364.00	
Jars	5.00			4369.00	
Safety Joint	2.00			4371.00	
Packer	5.00			4376.00	27.00 Bottom Of Top Packer
Packer	5.00			4381.00	
Stubb	1.00			4382.00	
Recorder	0.00	8018	Inside	4382.00	
Recorder	0.00	8371	Inside	4382.00	
Perforations	8.00			4390.00	
Bullnose	3.00			4393.00	12.00 Bottom Packers & Anchor

Total Tool Length: 39.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar

Byrom #4-34

6855 S. Havana St. Ste. 250
Centennial, CO 80112

34-20s-23w Ness KS

Job Ticket: 36372

DST#: 4

ATTN: Tim Priest

Test Start: 2009.07.21 @ 17:14:08

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 8.73 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

24000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1000.00	MW 95%W, 5%M	11.786
120.00	WM 50%W, 50%M	1.683

Total Length: 1120.00 ft Total Volume: 13.469 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .284 @ 70F = 24000ppm chlorides

