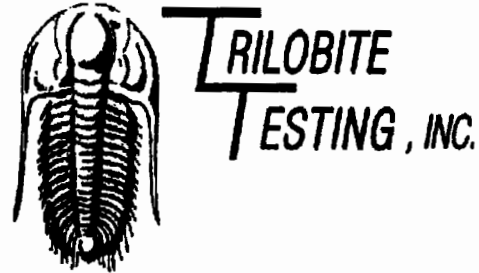


15-039-21106

10-2s-27w



### DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc.**

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

**CONFIDENTIAL**

JAN 06 2010

**KCC**

ATTN: Tim Priest

**10 2s 27w Decatur KS**

**NPI Wilson #1-10**

Start Date: 2009.10.02 @ 16:11:00

End Date: 2009.10.02 @ 22:19:00

Job Ticket #: 35846      DST #: 1

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

Norstar Petroleum Inc.

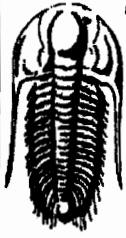
NPI Wilson #1-10

10 2s 27w Decatur KS

DST # 1

Oread - LKC "A"

2009.10.02



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Norstar Petroleum Inc.  
6855 S. Havana St.  
Suite 250  
Centennial, CO 80112  
ATTN: Tim Priest

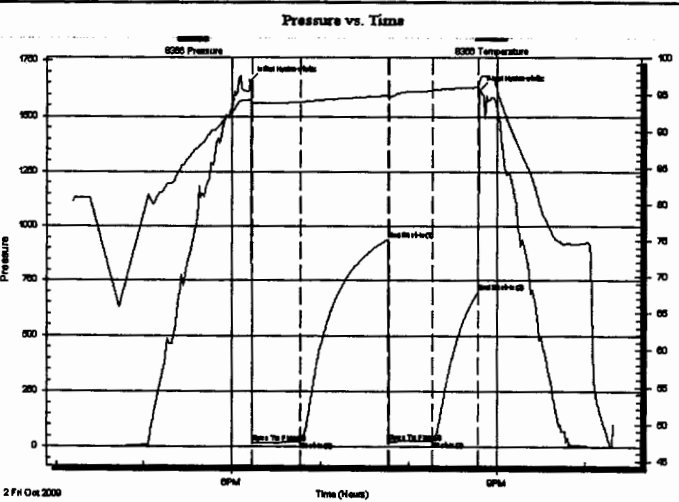
**NPI Wilson #1-10**  
**10 2s 27w Decatur KS**  
Job Ticket: 35846      DST#: 1  
Test Start: 2009.10.02 @ 16:11:00

## GENERAL INFORMATION:

Formation: **Oread - LKC "A"**  
 Deviated: No Whipstock      ft (KB)  
 Test Type: Conventional Bottom Hole  
 Time Tool Opened: 18:14:00      Tester: James Winder  
 Time Test Ended: 22:19:00      Unit No: 46  
 Interval: **3383.00 ft (KB) To 3447.00 ft (KB) (TVD)**      Reference Elevations: 2613.00 ft (KB)  
 Total Depth: 3447.00 ft (KB) (TVD)      2608.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8366**      Inside  
 Press@RunDepth: 28.46 psig @ 3384.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2009.10.02      End Date: 2009.10.02      Last Calib.: 2009.10.02  
 Start Time: 16:11:05      End Time: 22:18:59      Time On Btrr: 2009.10.02 @ 18:12:30  
 Time Off Btrr: 2009.10.02 @ 20:48:30

**TEST COMMENT:** IF: Blow built to just over 1/4" in 8 min., on/off blow till close  
 IS: Bled off, No blow back  
 FF: No blow  
 FS: No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.47	94.21	Initial Hydro-static
2	17.20	93.78	Open To Flow (1)
34	22.38	93.93	Shut-In(1)
93	939.99	94.85	End Shut-In(1)
94	24.29	94.37	Open To Flow (2)
124	28.46	95.54	Shut-In(2)
155	698.09	96.00	End Shut-In(2)
156	1619.63	97.10	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
20.00	Mud 100%	0.10
0.00	Oil spots in tool	0.00

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Norstar Petroleum Inc.  
6855 S. Havana St.  
Suite 250  
Centennial, CO 80112  
ATTN: Tim Priest

**NPI Wilson #1-10**  
**10 2s 27w Decatur KS**  
Job Ticket: 35846      **DST#: 1**  
Test Start: 2009.10.02 @ 16:11:00

**Tool Information**

Drill Pipe:	Length: 3260.00 ft	Diameter: 3.80 inches	Volume: 45.73 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: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 46.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3383.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description** ~~CONFIDENTIAL~~ **Serial No. Position Depth (ft) Accum. Lengths**

S.I. Tool	5.00			3361.00	
HYD S.I. Tool	5.00			3366.00	
Jars	5.00			3371.00	
Safety Joint	2.00			3373.00	
Packer	5.00			3378.00	27.00 Bottom Of Top Packer
Packer	5.00			3383.00	
Shale Packer	0.00			3383.00	
Stubb	1.00			3384.00	
Recorder	0.00	8366	Inside	3384.00	
Recorder	0.00	8320	Inside	3384.00	
Perforations	22.00			3406.00	
Blank Spacing	33.00			3439.00	
Perforations	5.00			3444.00	
Bullnose	3.00			3447.00	64.00 Bottom Packers & Anchor

**Total Tool Length: 91.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Norstar Petroleum Inc.  
6855 S. Havana St.  
Suite 250  
Centennial, CO 80112  
ATTN: Tim Priest

**NPI Wilson #1-10**  
**10 2s 27w Decatur KS**  
Job Ticket: 35846      **DST#: 1**  
Test Start: 2009.10.02 @ 16:11:00

## 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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.93 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud 100%	0.098
0.00	Oil spots in tool	0.000

Total Length: 20.00 ft      Total Volume: 0.098 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

DST Test Number: 1

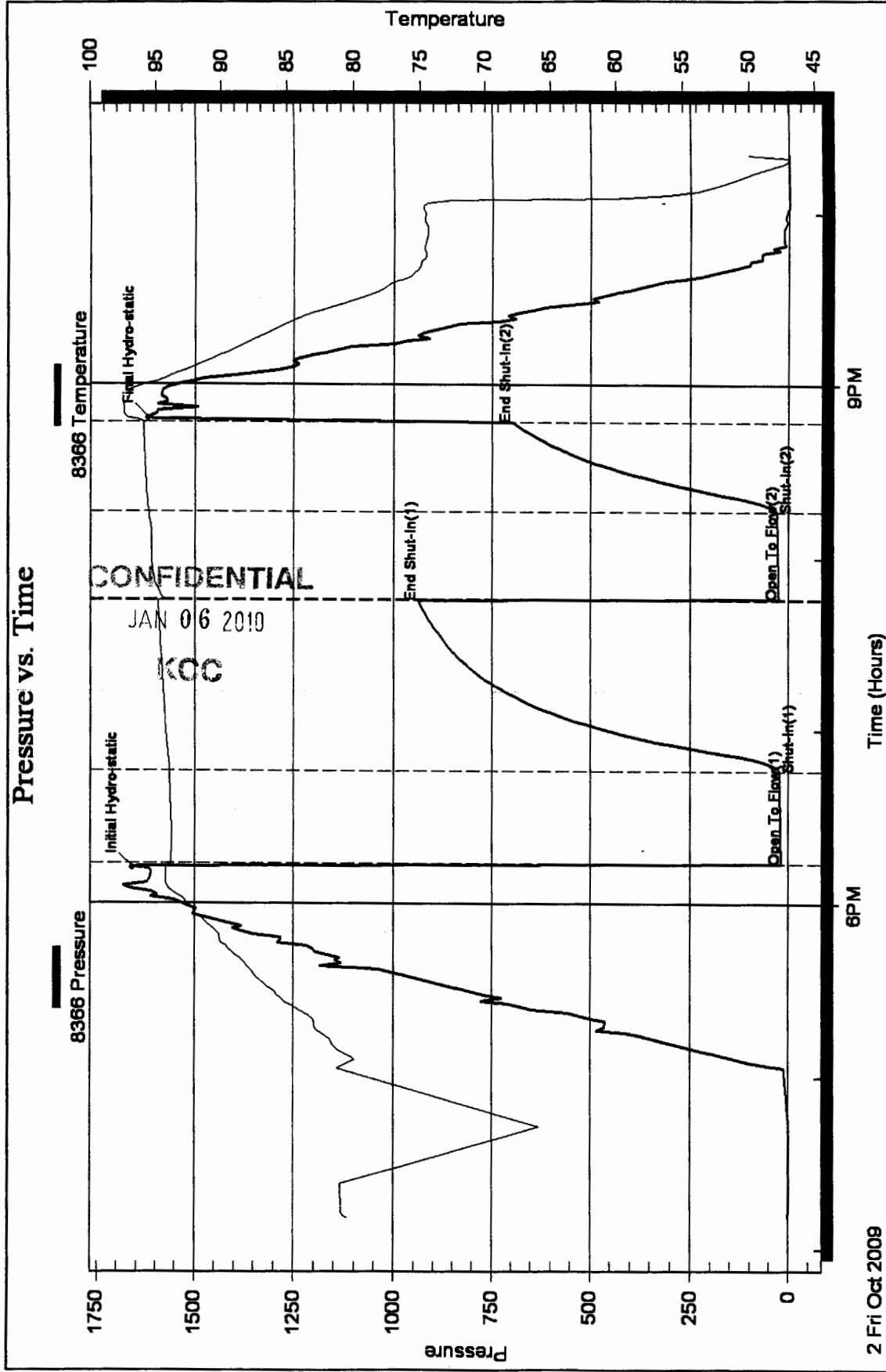
10 2s 27w Decatur KS

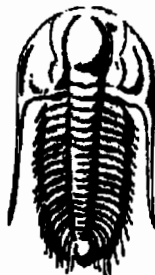
Norstar Petroleum Inc.

Inside

Serial #: 8366

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Norstar Petroleum Inc.**

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

**CONFIDENTIAL**  
JAN 06 2010  
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ATTN: Tim Priest

**10 2s 27w Decatur KS**

**NPI Wilson #1-10**

Start Date: 2009.10.03 @ 05:56:00

End Date: 2009.10.03 @ 13:42:30

Job Ticket #: 35847                      DST #: 2

Triobite 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

Norstar Petroleum Inc.  
6855 S. Havana St.  
Suite 250  
Centennial, CO 80112  
ATTN: Tim Priest

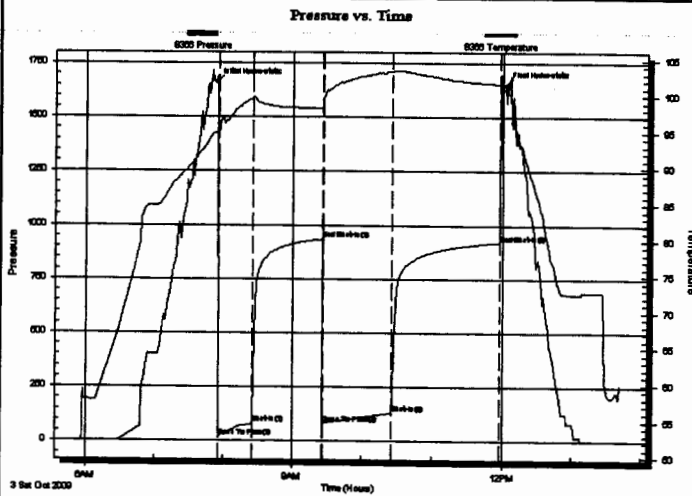
**NPI Wilson #1-10**  
**10 2s 27w Decatur KS**  
Job Ticket: 35847      DST#: 2  
Test Start: 2009.10.03 @ 05:56:00

## GENERAL INFORMATION:

Formation: **LKC "B - C"**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: 07:56:00  
Time Test Ended: 13:42:30  
Interval: **3443.00 ft (KB) To 3496.00 ft (KB) (TVD)**  
Total Depth: **3496.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: Fair  
Test Type: **Conventional Bottom Hole**  
Tester: **James Winder**  
Unit No: **46**  
Reference Elevations: **2613.00 ft (KB)**  
**2608.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 8366**      **Inside**  
Press@RunDepth: **131.47 psig @ 3444.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2009.10.03**      End Date: **2009.10.03**      Last Calib.: **2009.10.03**  
Start Time: **05:56:05**      End Time: **13:42:29**      Time On Btm: **2009.10.03 @ 07:53:30**  
Time Off Btm: **2009.10.03 @ 12:01:30**

**TEST COMMENT:** IF: Fair blow, built to 9"  
IS: Bled off, No blow back  
FF: Blow built to BOB in 60 min.  
FSI: Bled off, No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1656.92	94.90	Initial Hydro-static
3	17.54	94.73	Open To Flow (1)
33	80.20	99.72	Shut-In(1)
92	934.42	98.29	End Shut-In(1)
93	83.45	99.32	Open To Flow (2)
152	131.47	103.39	Shut-In(2)
244	920.23	101.65	End Shut-In(2)
248	1647.64	100.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
134.00	MCW w/trace oil 78%w, 22%m	0.76
15.00	SOCMW 55%w, 36%m, 7%o, 2%g	0.21
2.00	MWO 36%o, 35%w, 27%m, 2%g	0.03
0.00	RW = .145 ohms @ 67.2 deg F	0.00
0.00	Chlorides = 56,000 ppm	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Norstar Petroleum Inc.  
6855 S. Havana St.  
Suite 250  
Centennial, CO 80112  
ATTN: Tim Priest

**NPI Wilson #1-10**  
**10 2s 27w Decatur KS**  
Job Ticket: 35847      **DST#: 2**  
Test Start: 2009.10.03 @ 05:56:00

**Tool Information**

Drill Pipe:	Length: 3324.00 ft	Diameter: 3.80 inches	Volume: 46.63 bbl	Tool Weight: 1500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 47.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3443.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I Tool	5.00			3428.00	
HYD S.I Tool	5.00			3433.00	
Packer	5.00			3438.00	20.00      Bottom Of Top Packer
Packer	5.00			3443.00	
Shale Packer	0.00			3443.00	
Stubb	1.00			3444.00	
Recorder	0.00	8366	Inside	3444.00	
Recorder	0.00	8320	Inside	3444.00	
Perforations	15.00			3459.00	
Blank Spacing	33.00			3492.00	
Perforations	1.00			3493.00	
Bullnose	3.00			3496.00	53.00      Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Norstar Petroleum Inc.

**NPI Wilson #1-10**

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

**10 2s 27w Decatur KS**  
Job Ticket: 35847      **DST#: 2**  
Test Start: 2009.10.03 @ 05:56:00

## 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:	56000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
134.00	MCW w/trace oil 78%w , 22%m	0.759
15.00	SOCMW 55%w , 36%m, 7%o, 2%g	0.210
2.00	MWO 36%o, 35%w , 27%m, 2%g	0.028
0.00	RW = .145 ohms @ 67.2 deg F	0.000
0.00	Chlorides = 56,000 ppm	0.000

Total Length: 151.00 ft      Total Volume: 0.997 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

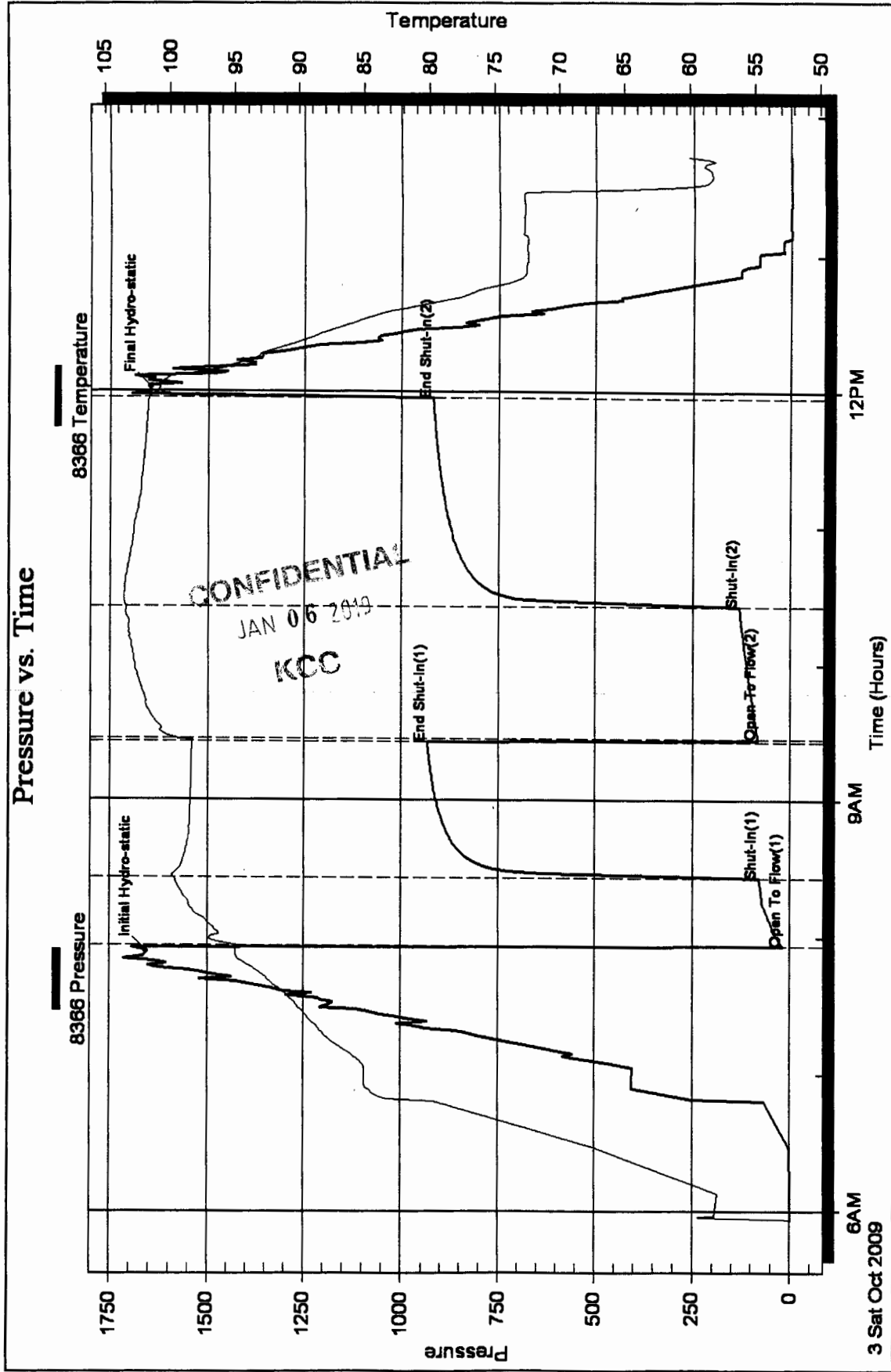
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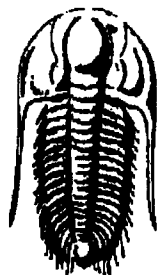
Norstar Petroleum Inc.

10 2s 27w Decatur KS

DST Test Number: 2

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Norstar Petroleum Inc.**

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

ATTN: Tim Priest

**10 2s 27w Decatur KS**

**NPI Wilson #1-10**

Start Date: 2009.10.03 @ 20:45:00

End Date: 2009.10.04 @ 03:04:00

Job Ticket #: 35848                      DST #: 3

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

Norstar Petroleum Inc.

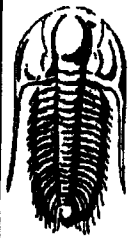
NPI Wilson #1-10

10 2s 27w Decatur KS

DST # 3

LKC "D"

2009.10.03



**TRIOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Norstar Petroleum Inc.

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

**NPI Wilson #1-10**

**10 2s 27w Decatur KS**

Job Ticket: 35848

DST#: 3

Test Start: 2009.10.03 @ 20:45:00

## GENERAL INFORMATION:

Formation: **LKC "D"**

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

Time Tool Opened: **22:37:30**

Time Test Ended: **03:04:00**

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **46**

Interval: **3495.00 ft (KB) To 3540.00 ft (KB) (TVD)**

Total Depth: **3540.00 ft (KB) (TVD)**

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

Reference Elevations: **2613.00 ft (KB)**

**2608.00 ft (CF)**

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

**Serial #: 8366**

**Inside**

Press@RunDepth: **141.41 psig @ 3496.00 ft (KB)**

Start Date: **2009.10.03**

End Date:

**2009.10.04**

Start Time: **20:45:05**

End Time:

**03:03:59**

Capacity: **8000.00 psig**

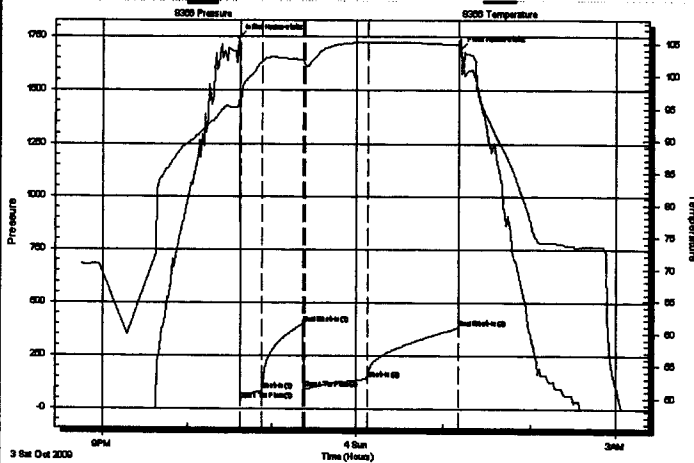
Last Calib.: **2009.10.04**

Time On Btm: **2009.10.03 @ 22:36:00**

Time Off Btm: **2009.10.04 @ 01:11:29**

**TEST COMMENT:** IF: Blow built to BOB in 5 1/2 min.  
IS: Bled off, Blow back built to 3 1/2"  
FF: Blow built to BOB in 9 min.  
FS: Bled off, Blow back built to 2 3/4" in 40 min.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1741.54	95.59	Initial Hydro-static
2	42.41	96.31	Open To Flow (1)
17	86.43	102.21	Shut-in (1)
46	399.66	102.38	End Shut-in (1)
48	96.13	101.71	Open To Flow (2)
92	141.41	105.08	Shut-in (2)
155	380.16	104.79	End Shut-in (2)
156	1685.35	105.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
195.00	GMD 44%o, 30%g, 26%g	1.61
150.00	CGO 78%o, 20%g, 2%g	2.10
0.00	GIP = 345'	0.00
0.00	Gravity = 32.8 api @ 48 deg F	0.00
0.00	Corrected Gravity = 34 api	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Norstar Petroleum Inc.  
6855 S. Havana St.  
Suite 250  
Centennial, CO 80112  
ATTN: Tim Priest

**NPI Wilson #1-10**  
**10 2s 27w Decatur KS**  
Job Ticket: 35848      **DST#: 3**  
Test Start: 2009.10.03 @ 20:45:00

**Tool Information**

Drill Pipe:	Length: 3372.00 ft	Diameter: 3.80 inches	Volume: 47.30 bbl	Tool Weight: 1500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 76000.00 lb
		<b>Total Volume:</b>	<b>47.90 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3495.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3480.00	
HYD S.I. Tool	5.00			3485.00	
Packer	5.00			3490.00	20.00 Bottom Of Top Packer
Packer	5.00			3495.00	
Shale Packer	0.00			3495.00	
Stubb	1.00			3496.00	
Recorder	0.00	8366	Inside	3496.00	
Recorder	0.00	8320	Inside	3496.00	
Perforations	5.00			3501.00	
Blank Spacing	33.00			3534.00	
Perforations	3.00			3537.00	
Bullnose	3.00			3540.00	45.00 Bottom Packers & Anchor

**Total Tool Length: 65.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Norstar Petroleum Inc.

**NPI Wilson #1-10**

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

**10 2s 27w Decatur KS**  
Job Ticket: 35848      **DST#: 3**  
Test Start: 2009.10.03 @ 20:45:00

### 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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

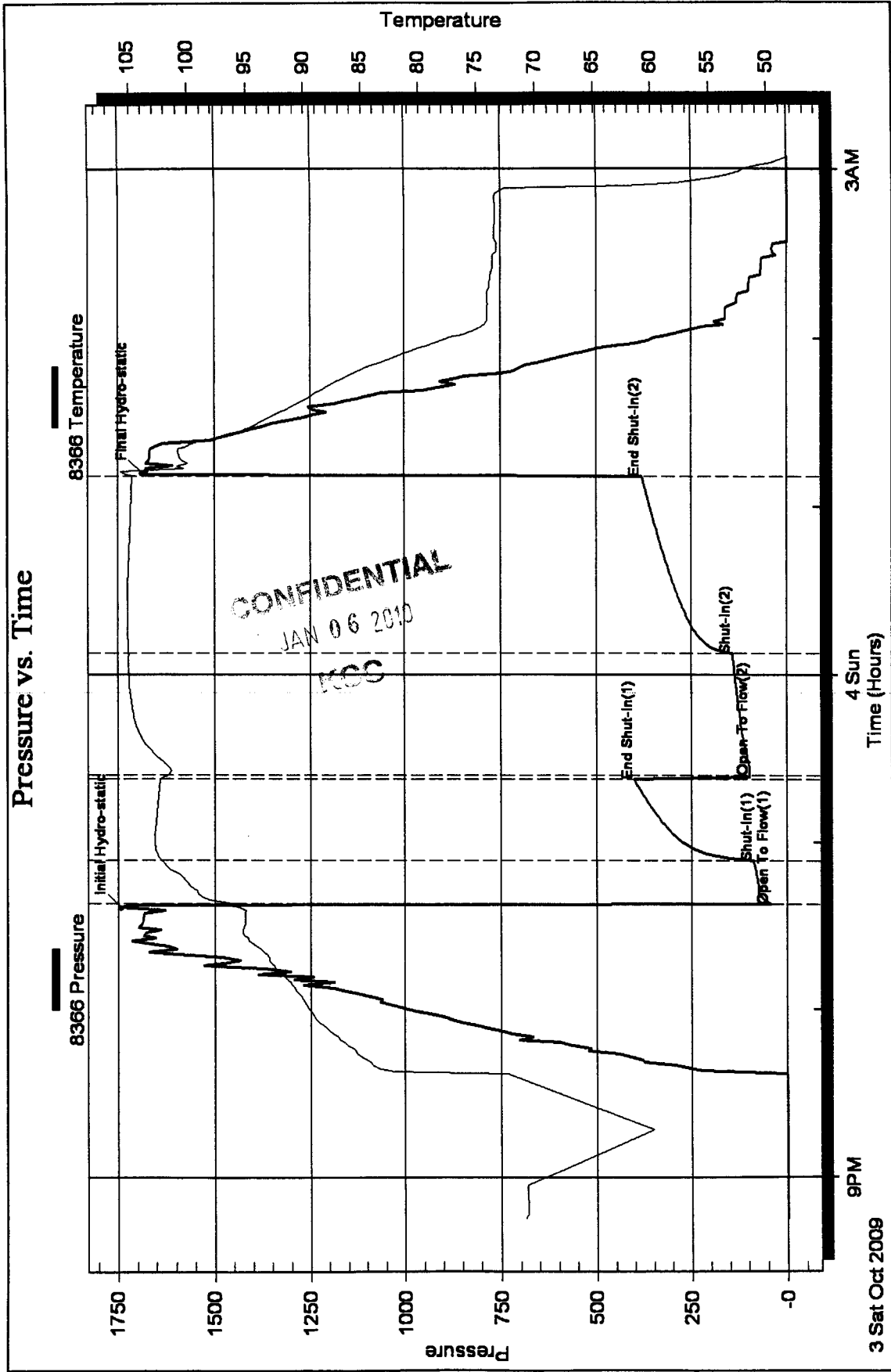
Recovery Table

Length ft	Description	Volume bbl
195.00	GMO 44%o, 30%m, 26%g	1.615
150.00	CGO 78%o, 20%g, 2%m	2.104
0.00	GIP = 345'	0.000
0.00	Gravity = 32.8 api @ 48 deg F	0.000
0.00	Corrected Gravity = 34 api	0.000

Total Length: 345.00 ft      Total Volume: 3.719 bbl

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

### Pressure vs. Time



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**TRILOBITE**  
**TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Norstar Petroleum Inc.**

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

**CONFIDENTIAL**

JAN 06 2010

**KCC**

ATTN: Tim Priest

**10 2s 27w Decatur KS**

**NPI Wilson #1-10**

Start Date: 2009.10.04 @ 11:15:00

End Date: 2009.10.04 @ 18:40:30

Job Ticket #: 35849                      DST #: 4

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Norstar Petroleum Inc.  
6855 S. Havana St.  
Suite 250  
Centennial, CO 80112  
ATTN: Tim Priest

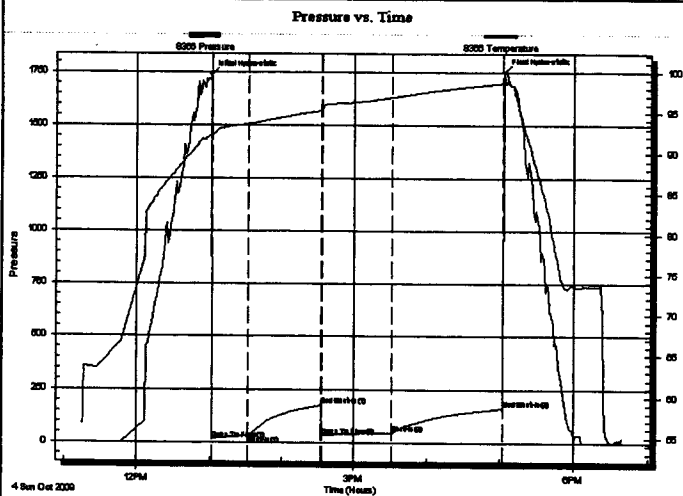
**NPI Wilson #1-10**  
**10 2s 27w Decatur KS**  
Job Ticket: 35849      DST#: 4  
Test Start: 2009.10.04 @ 11:15:00

## GENERAL INFORMATION:

Formation: **LKC "E - F"**  
 Deviated: **No Whipstock**      ft (KB)  
 Time Tool Opened: **13:02:00**  
 Time Test Ended: **18:40:30**  
 Interval: **3540.00 ft (KB) To 3600.00 ft (KB) (TVD)**  
 Total Depth: **3600.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **James Winder**  
 Unit No: **46**  
 Reference Elevations: **2613.00 ft (KB)**  
**2608.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

**Serial #: 8366**      **Inside**  
 Press@RunDepth: **48.66 psig @ 3541.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2009.10.04**      End Date: **2009.10.04**      Last Calib.: **2009.10.04**  
 Start Time: **11:15:05**      End Time: **18:40:29**      Time On Btrm: **2009.10.04 @ 13:01:00**  
 Time Off Btrm: **2009.10.04 @ 17:02:59**

**TEST COMMENT:** IF: Blow built to 4"  
 IS: Bled off, No blow back  
 FF: Blow built to 5"  
 FS: Bled off, Surface blow back from 17 min. to 30 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1734.71	92.22	Initial Hydro-static
1	17.83	92.12	Open To Flow (1)
31	32.92	93.63	Shut-In (1)
91	178.03	95.24	End Shut-In (1)
92	33.97	95.30	Open To Flow (2)
151	48.66	96.88	Shut-In (2)
241	165.14	98.65	End Shut-In (2)
242	1748.63	100.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	GOM 53% <sub>m</sub> , 41% <sub>o</sub> , 6% <sub>g</sub>	0.22
45.00	CGO 92% <sub>o</sub> , 5% <sub>g</sub> , 3% <sub>m</sub>	0.22
0.00	GIP = 35' (weak odor)	0.00
0.00	Gravity = 33 api @ 60 deg F	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Norstar Petroleum Inc.  
6855 S. Havana St.  
Suite 250  
Centennial, CO 80112  
ATTN: Tim Priest

**NPI Wilson #1-10**  
**10 2s 27w Decatur KS**  
Job Ticket: 35849      DST#: 4  
Test Start: 2009.10.04 @ 11:15:00

**Tool Information**

Drill Pipe:	Length: 3420.00 ft	Diameter: 3.80 inches	Volume: 47.97 bbl	Tool Weight: 1500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 74000.00 lb
			<b>Total Volume: 48.57 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3540.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description      Length (ft)   Serial No.   Position   Depth (ft)   Accum. Lengths**

S.I. Tool				3525.00	
HYD S.I. Tool				3530.00	
Packer				3535.00	20.00      Bottom Of Top Packer
Packer				3540.00	
Shale Packer				3540.00	
Stubb				3541.00	
Recorder		8366	Inside	3541.00	
Recorder		8320	Inside	3541.00	
Perforations	18.00			3559.00	
Blank Spacing	33.00			3592.00	
Perforations	5.00			3597.00	
Bullnose	3.00			3600.00	60.00      Bottom Packers & Anchor

**Total Tool Length: 80.00**

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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Norstar Petroleum Inc.

**NPI Wilson #1-10**

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

**10 2s 27w Decatur KS**  
Job Ticket: 35849      DST#: 4  
Test Start: 2009.10.04 @ 11:15:00

## 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: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	GOM 53% <i>m</i> , 41% <i>o</i> , 6% <i>g</i>	0.221
45.00	CGO 92% <i>o</i> , 5% <i>g</i> , 3% <i>m</i>	0.221
0.00	GIP = 35' (weak odor)	0.000
0.00	Gravity = 33 api @ 60 deg F	0.000

Total Length: 90.00 ft      Total Volume: 0.442 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 8366

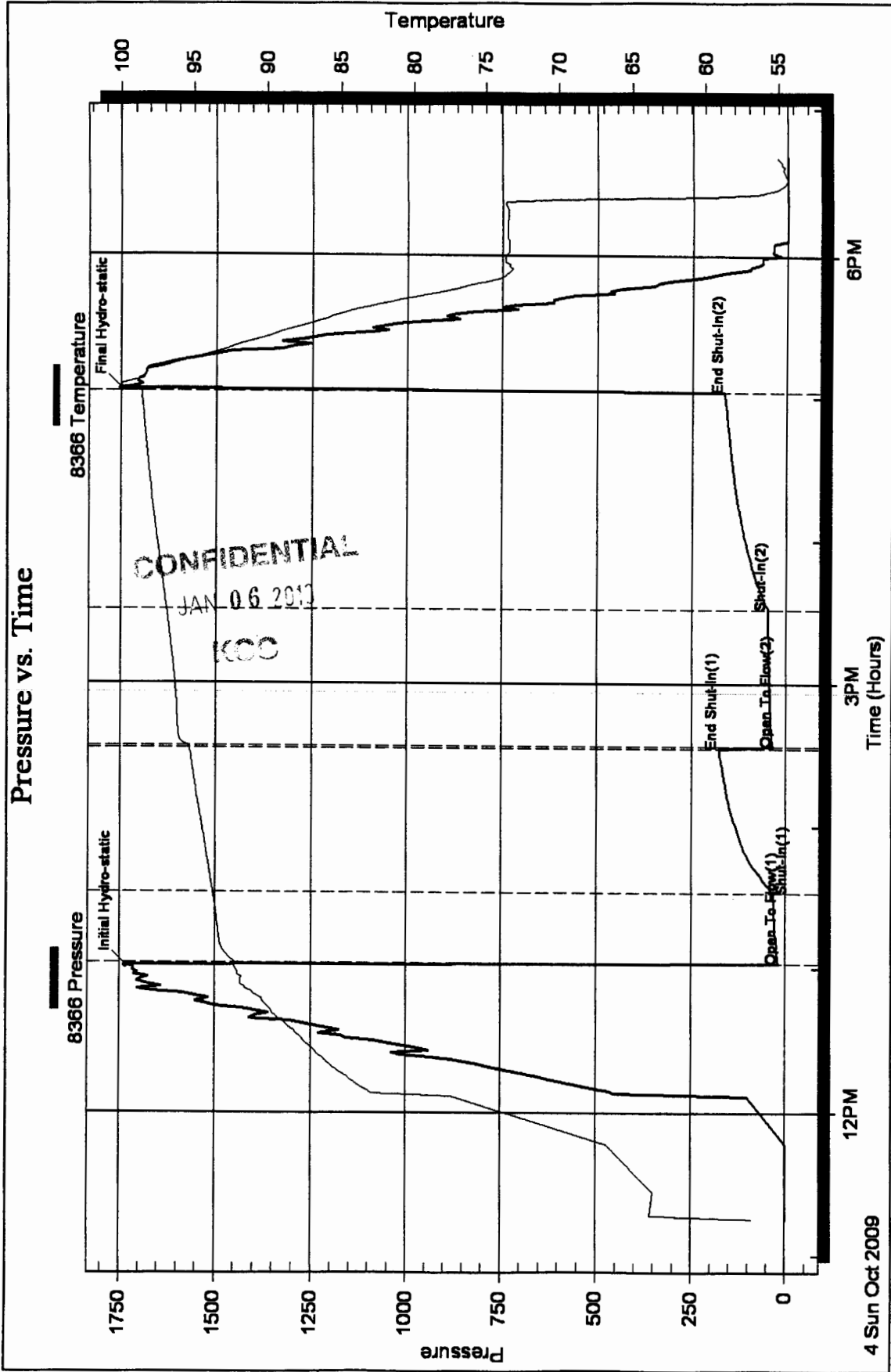
Inside

Norstar Petroleum Inc.

10 2s 27w Decatur KS

DST Test Number: 4

### Pressure vs. Time

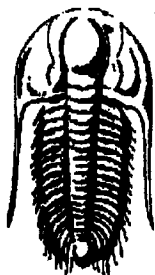


4 Sun Oct 2009

12PM

3PM

6PM



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc.**

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

ATTN: Tim Priest

**10 2s 27w Decatur KS**

**NPI Wilson #1-10**

Start Date: 2009.10.05 @ 01:18:00

End Date: 2009.10.05 @ 04:49:00

Job Ticket #: 35850                      DST #: 5

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JAN 06 2010  
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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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JAN 11 2010

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TESTING, INC**

# DRILL STEM TEST REPORT

Norstar Petroleum Inc.

NPI Wilson #1-10

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

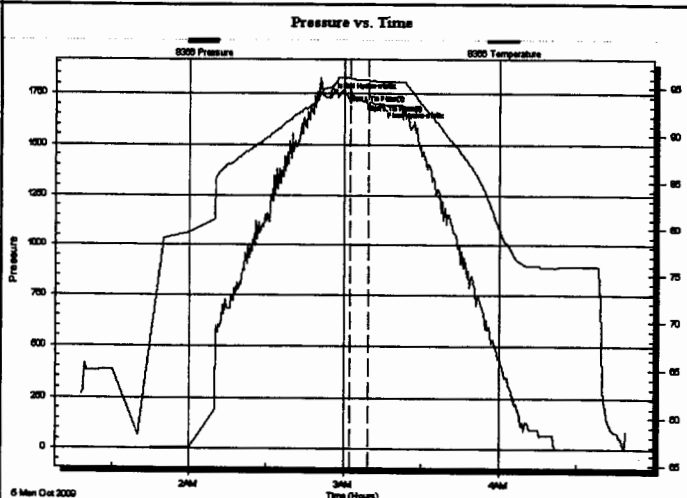
**10 2s 27w Decatur KS**  
Job Ticket: 35850      DST#: 5  
Test Start: 2009.10.05 @ 01:18:00

## GENERAL INFORMATION:

Formation: LKC "G - H"  
Deviated: No Whipstock      ft (KB)  
Time Tool Opened: 03:02:00  
Time Test Ended: 04:49:00  
Interval: 3584.00 ft (KB) To 3638.00 ft (KB) (TVD)  
Total Depth: 3638.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: James Winder  
Unit No: 46  
Reference Elevations: 2613.00 ft (KB)  
2608.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8366**      Inside  
Press@RunDepth:      psig @ 3585.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2009.10.05      End Date: 2009.10.05      Last Calib.: 2009.10.05  
Start Time: 01:18:05      End Time: 04:49:00      Time On Btrr: 2009.10.05 @ 02:54:30  
Time Off Btrr: 2009.10.05 @ 03:13:30

TEST COMMENT: Packer Failure  
Reset tool - failed again



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1729.18	95.04	Initial Hydro-static
8	1704.61	96.01	Open To Flow (1)
15	1654.77	95.83	Open To Flow (2)
19	1696.89	95.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
215.00	Mud 100%	1.90

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Norstar Petroleum Inc.  
6855 S. Havana St.  
Suite 250  
Centennial, CO 80112  
ATTN: Tim Priest

**NPI Wilson #1-10**  
**10 2s 27w Decatur KS**  
Job Ticket: 35850      **DST#: 5**  
Test Start: 2009.10.05 @ 01:18:00

**Tool Information**

Drill Pipe:	Length: 3450.00 ft	Diameter: 3.80 inches	Volume: 48.39 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
		<b>Total Volume:</b>	<b>48.99 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3584.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3569.00	
HYD S.I. Tool	5.00			3574.00	
Packer	5.00			3579.00	20.00 Bottom Of Top Packer
Packer	5.00			3584.00	
Shale Packer	0.00			3584.00	
Stubb	1.00			3585.00	
Recorder	0.00	8366	Inside	3585.00	
Recorder	0.00	8320	Inside	3585.00	
Perforations	15.00			3600.00	
Blank Spacing	33.00			3633.00	
Perforations	2.00			3635.00	
Bullnose	3.00			3638.00	54.00 Bottom Packers & Anchor

**Total Tool Length: 74.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Norstar Petroleum Inc.  
6855 S. Havana St.  
Suite 250  
Centennial, CO 80112  
ATTN: Tim Priest

**NPI Wilson #1-10**  
**10 2s 27w Decatur KS**  
Job Ticket: 35850      **DST#: 5**  
Test Start: 2009.10.05 @ 01:18:00

## 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: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
215.00	Mud 100%	1.895

Total Length: 215.00 ft      Total Volume: 1.895 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 8366

Inside

Norstar Petroleum Inc.

10 2s 27w Decatur KS

DST Test Number: 5

