



DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum**

88 Inverness Cir E Unit F 104
Englewood CO 80112

ATTN: Bob Elder

Stover-Weed #1-27

27-10s-35w Thomas KS

Start Date: 2012.09.11 @ 09:27:54

End Date: 2012.09.11 @ 16:51:39

Job Ticket #: 50014 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.18 @ 14:37:31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum
 88 Inverness Cir E Unit F 104
 Englewood CO 80112
 ATTN: Bob Elder

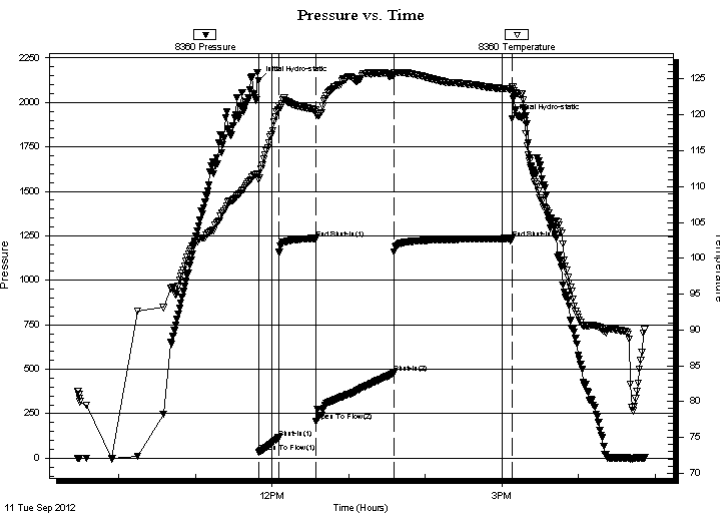
27-10s-35w Thomas KS
Stover-Weed #1-27
 Job Ticket: 50014 **DST#: 1**
 Test Start: 2012.09.11 @ 09:27:54

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:49:54 Tester: Tate Lang
 Time Test Ended: 16:51:39 Unit No: 40
 Interval: **4166.00 ft (KB) To 4200.00 ft (KB) (TVD)** Reference Elevations: 3321.00 ft (KB)
 Total Depth: 4200.00 ft (KB) (TVD) 3313.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8360 Inside
 Press @ Run Depth: 477.94 psig @ 4167.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.11 End Date: 2012.09.11 Last Calib.: 2012.09.11
 Start Time: 09:27:59 End Time: 16:51:38 Time On Btm: 2012.09.11 @ 11:49:39
 Time Off Btm: 2012.09.11 @ 15:07:54

TEST COMMENT: IF-B.O.B. 7 mins
 ISI-Dead No Blow Back
 FF-B.O.B. 15 mins.
 FSI-Dead No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2123.00	111.81	Initial Hydro-static
1	32.83	110.91	Open To Flow (1)
16	114.03	120.71	Shut-In(1)
45	1235.44	120.66	End Shut-In(1)
45	208.26	120.10	Open To Flow (2)
106	477.94	125.53	Shut-In(2)
198	1235.25	123.60	End Shut-In(2)
199	1909.57	123.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
496.00	5%M 95%W	6.96
298.00	5%W 95%M	4.18

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum
 88 Inverness Cir E Unit F 104
 Englewood CO 80112
 ATTN: Bob Elder

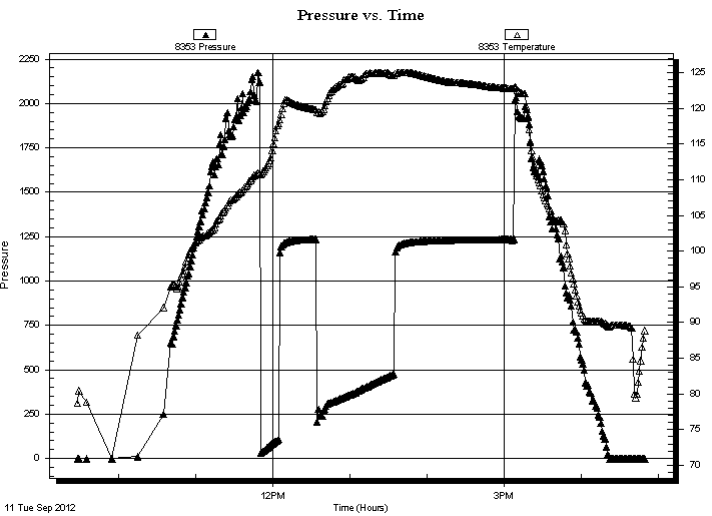
27-10s-35w Thomas KS
Stover-Weed #1-27
 Job Ticket: 50014 **DST#: 1**
 Test Start: 2012.09.11 @ 09:27:54

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:49:54
 Tester: Tate Lang
 Time Test Ended: 16:51:39
 Unit No: 40
Interval: 4166.00 ft (KB) To 4200.00 ft (KB) (TVD)
 Reference Elevations: 3321.00 ft (KB)
 Total Depth: 4200.00 ft (KB) (TVD)
 3313.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 8.00 ft

Serial #: 8353 Outside
 Press @ Run Depth: psig @ 4167.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.11 End Date: 2012.09.11 Last Calib.: 2012.09.11
 Start Time: 09:27:45 End Time: 16:49:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-B.O.B. 7 mins
 ISI-Dead No Blow Back
 FF-B.O.B. 15 mins.
 FSI-Dead No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
496.00	5%M 95%W	6.96
298.00	5%W 95%M	4.18

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum
88 Inverness Cir E Unit F 104
Englewood CO 80112
ATTN: Bob Elder

27-10s-35w Thomas KS
Stover-Weed #1-27
Job Ticket: 50014 **DST#: 1**
Test Start: 2012.09.11 @ 09:27:54

Tool Information

Drill Pipe:	Length: 4148.00 ft	Diameter: 3.80 inches	Volume: 58.19 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 58.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4166.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4140.00	
Shut In Tool	5.00			4145.00	
Hydraulic tool	5.00			4150.00	
Jars	5.00			4155.00	
Safety Joint	2.00			4157.00	
Packer	5.00			4162.00	27.00 Bottom Of Top Packer
Packer	4.00			4166.00	
Stubb	1.00			4167.00	
Recorder	0.00	8360	Inside	4167.00	
Recorder	0.00	8353	Outside	4167.00	
Perforations	30.00			4197.00	
Bullnose	3.00			4200.00	34.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum
88 Inverness Cir E Unit F 104
Englewood CO 80112
ATTN: Bob Elder

27-10s-35w Thomas KS
Stover-Weed #1-27
Job Ticket: 50014 **DST#: 1**
Test Start: 2012.09.11 @ 09:27:54

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:	38000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.33 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
496.00	5%M 95%W	6.958
298.00	5%W 95%M	4.180

Total Length: 794.00 ft Total Volume: 11.138 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: .126/100
 Oil Spots On Top Of Tool

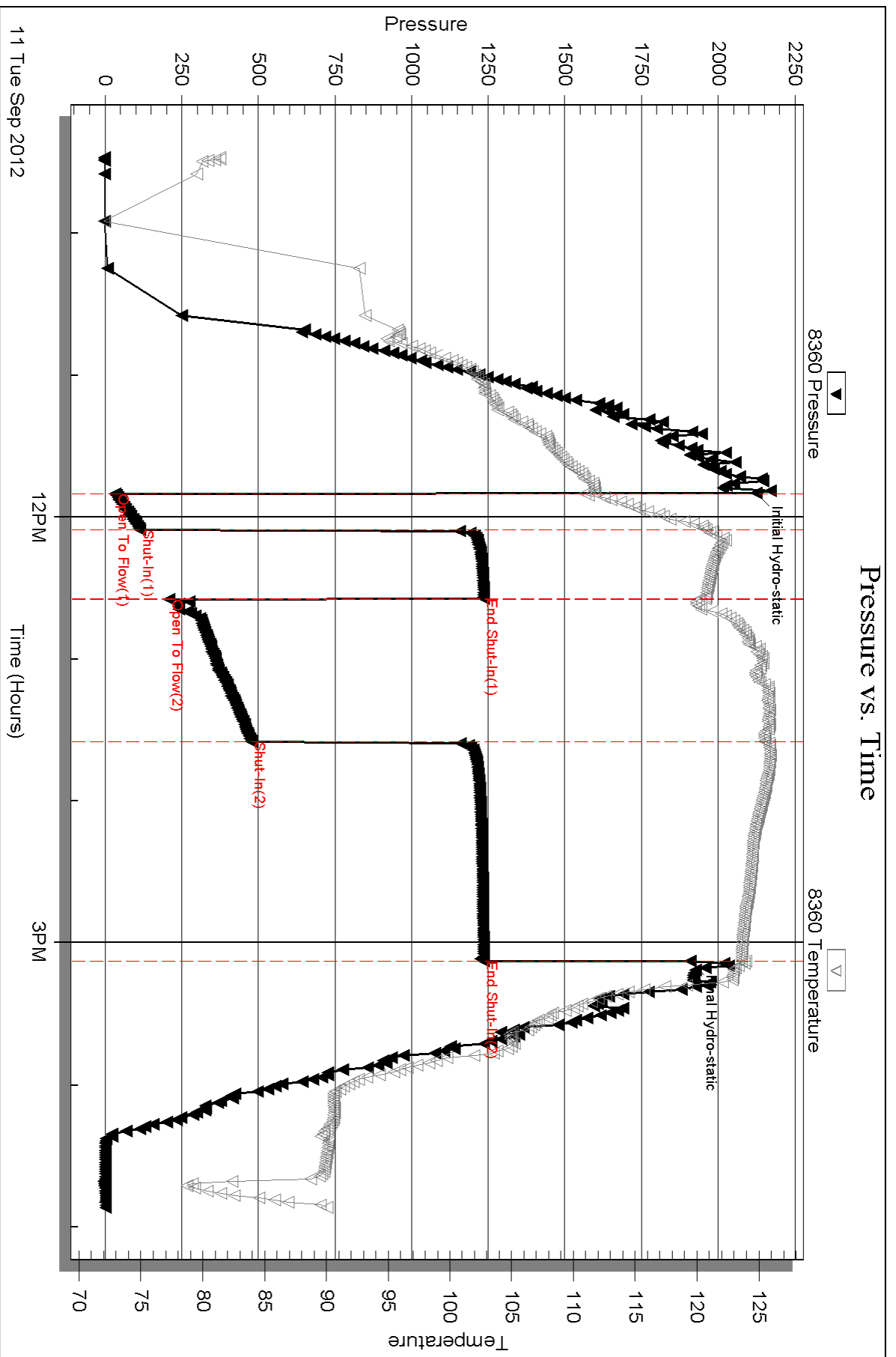
Serial #: 8360

Inside

Norstar Petroleum

Slover-Weed #1-27

DST Test Number: 1

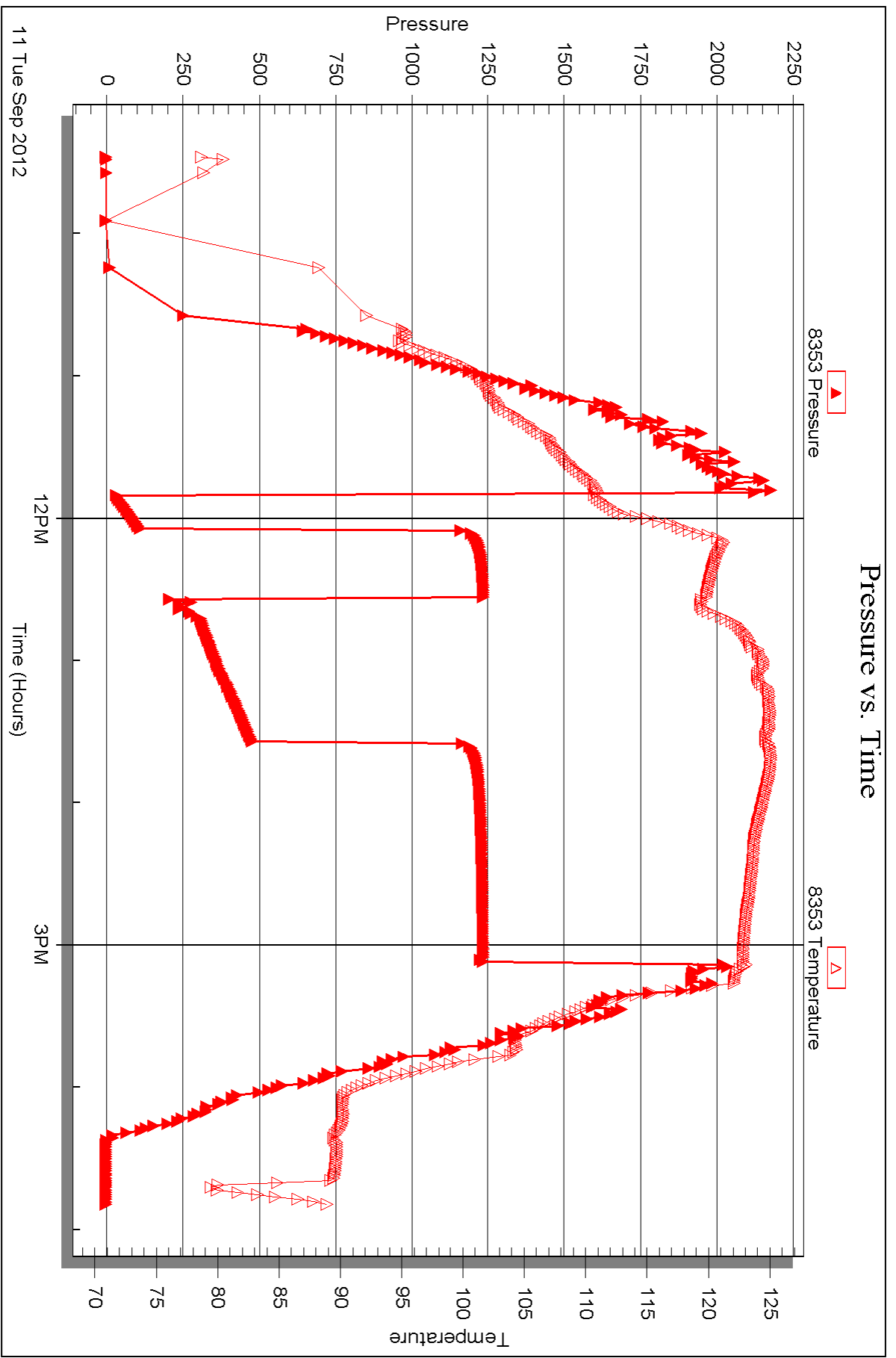


Serial #: 8353

Outside Norstar Petroleum

Slover-Weed #1-27

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 50014

Printed: 2012.09.18 @ 14:37:36



DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum**

88 Inverness Cir E Unit F 104
Englewood CO 80112

ATTN: Bob Elder

Stover-Weed #1-27

27-10s-35w Thomas KS

Start Date: 2012.09.12 @ 14:54:00

End Date: 2012.09.12 @ 22:02:24

Job Ticket #: 48840 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.09.18 @ 14:36:44

Norstar Petroleum
27-10s-35w Thomas KS
Stover-Weed #1-27
DST # 2
LKC "H-1"
2012.09.12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum
 88 Inverness Cir E Unit F 104
 Englewood CO 80112
 ATTN: Bob Elder

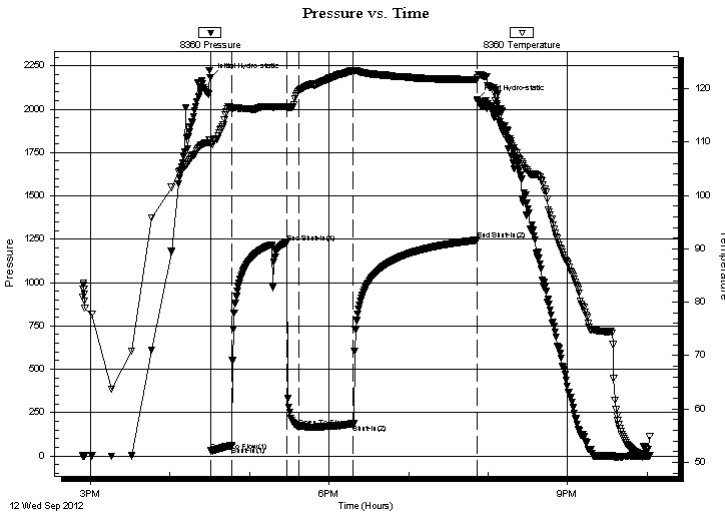
27-10s-35w Thomas KS
Stover-Weed #1-27
 Job Ticket: 48840 **DST#: 2**
 Test Start: 2012.09.12 @ 14:54:00

GENERAL INFORMATION:

Formation: **LKC "H-1"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 16:30:55 Tester: Will MacLean
 Time Test Ended: 22:02:24 Unit No: 40
 Interval: **4350.00 ft (KB) To 4420.00 ft (KB) (TVD)** Reference Elevations: 3321.00 ft (KB)
 Total Depth: 4420.00 ft (KB) (TVD) 3313.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8360 Inside
 Press @ Run Depth: 185.11 psig @ 4351.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.12 End Date: 2012.09.12 Last Calib.: 2012.09.12
 Start Time: 14:54:00 End Time: 22:02:24 Time On Btm: 2012.09.12 @ 16:30:25
 Time Off Btm: 2012.09.12 @ 19:51:39

TEST COMMENT: IF- Surface Blow Built to 6"
 IS- No Blow
 FF- Weak Surface Blow Built to BOB in 50min ten minutes into the ff there was no blow turned the tool
 FS- No Blow 1/4 turn started blow ing



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2182.95	110.45	Initial Hydro-static
1	28.33	109.67	Open To Flow (1)
16	57.84	116.18	Shut-In(1)
58	1231.03	116.63	End Shut-In(1)
67	166.86	119.58	Open To Flow (2)
108	185.11	123.30	Shut-In(2)
201	1244.49	121.66	End Shut-In(2)
202	2053.25	121.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMCW 12%g 22%m 66%w	0.87
62.00	GMCW 7%g 34%m 59%w	0.87
62.00	GWCM 8%g 18%w 74%m w with Skim	0.87
82.00	OGCM 1%oil 4%g 95%m	1.15

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum
 88 Inverness Cir E Unit F 104
 Englewood CO 80112
 ATTN: Bob Elder

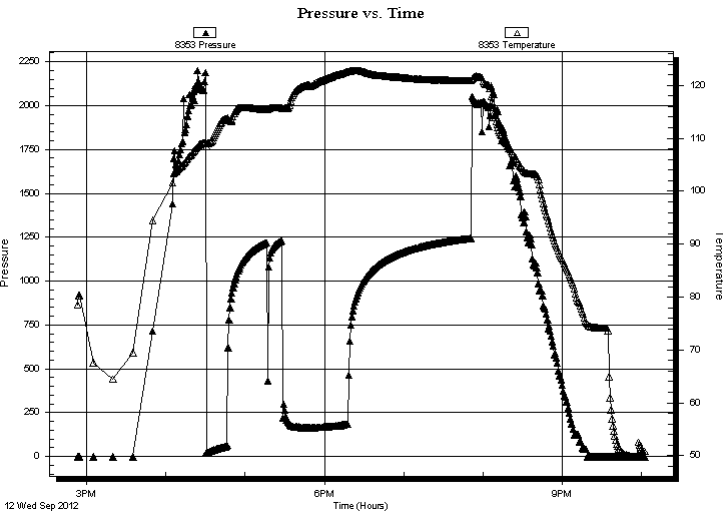
27-10s-35w Thomas KS
Stover-Weed #1-27
 Job Ticket: 48840 **DST#: 2**
 Test Start: 2012.09.12 @ 14:54:00

GENERAL INFORMATION:

Formation: **LKC "H-I"**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 16:30:55 Tester: Will MacLean
 Time Test Ended: 22:02:24 Unit No: 40
Interval: 4350.00 ft (KB) To 4420.00 ft (KB) (TVD) Reference Elevations: 3321.00 ft (KB)
 Total Depth: 4420.00 ft (KB) (TVD) 3313.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8353 Outside
 Press @ Run Depth: psig @ 4351.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.12 End Date: 2012.09.12 Last Calib.: 2012.09.12
 Start Time: 14:53:25 End Time: 22:02:25 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF- Surface Blow Built to 6"
 IS- No Blow
 FF- Weak Surface Blow Built to BOB in 50min ten minutes into the ff there was no blow turned the tool
 FS- No Blow 1/4 turn started blowing



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMCW 12%g 22%m 66%w	0.87
62.00	GMCW 7%g 34%m 59%w	0.87
62.00	GWCM 8%g 18%w 74%m with Skim of	0.87
82.00	OGCM 1%oil 4%g 95%m	1.15

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum
88 Inverness Cir E Unit F 104
Englewood CO 80112
ATTN: Bob Elder

27-10s-35w Thomas KS
Stover-Weed #1-27
Job Ticket: 48840 **DST#: 2**
Test Start: 2012.09.12 @ 14:54:00

Tool Information

Drill Pipe:	Length: 4335.00 ft	Diameter: 3.80 inches	Volume: 60.81 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: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 20000.00 lb
			<u>Total Volume: 60.81 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4350.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4324.00	
Shut In Tool	5.00			4329.00	
Hydraulic tool	5.00			4334.00	
Jars	5.00			4339.00	
Safety Joint	2.00			4341.00	
Packer	5.00			4346.00	27.00 Bottom Of Top Packer
Packer	4.00			4350.00	
Stubb	1.00			4351.00	
Recorder	0.00	8360	Inside	4351.00	
Recorder	0.00	8353	Outside	4351.00	
Perforations	33.00			4384.00	
Change Over Sub	1.00			4385.00	
Drill Pipe	31.00			4416.00	
Change Over Sub	1.00			4417.00	
Bullnose	3.00			4420.00	70.00 Bottom Packers & Anchor

Total Tool Length: 97.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum
88 Inverness Cir E Unit F 104
Englewood CO 80112
ATTN: Bob Elder

27-10s-35w Thomas KS
Stover-Weed #1-27
Job Ticket: 48840 **DST#: 2**
Test Start: 2012.09.12 @ 14:54:00

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: 59000 ppm	
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.32 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 14200.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GMCW 12%g 22%m 66%w	0.870
62.00	GMCW 7%g 34%m 59%w	0.870
62.00	GWCM 8%g 18%w 74%m with Skim of Oil	0.870
82.00	OGCM 1%oil 4%g 95%m	1.150

Total Length: 268.00 ft Total Volume: 3.760 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW is .238 @ 56f = 59000

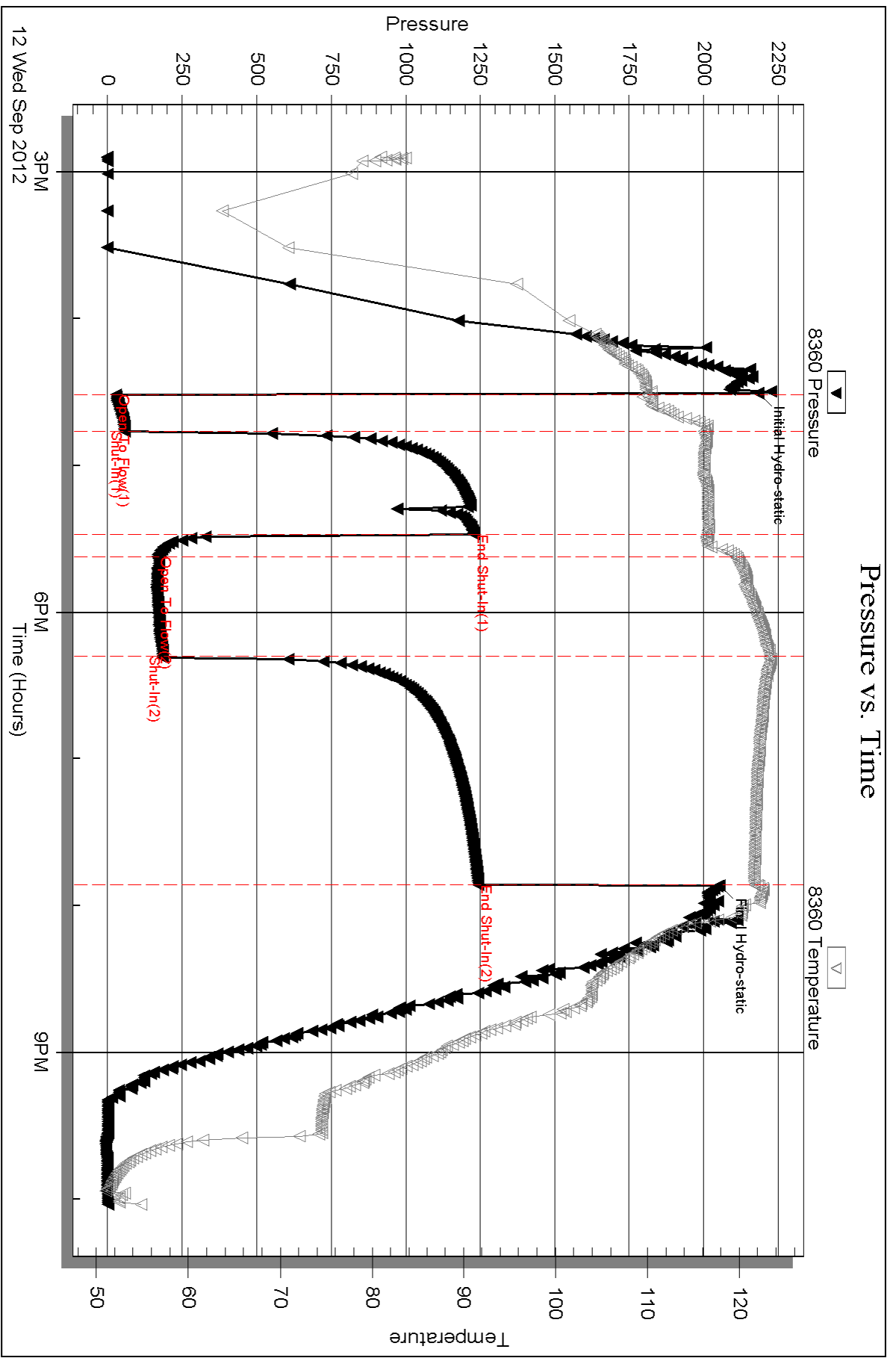
Serial #: 8360

Inside

Norstar Petroleum

Slover-Weed #1-27

DST Test Number: 2

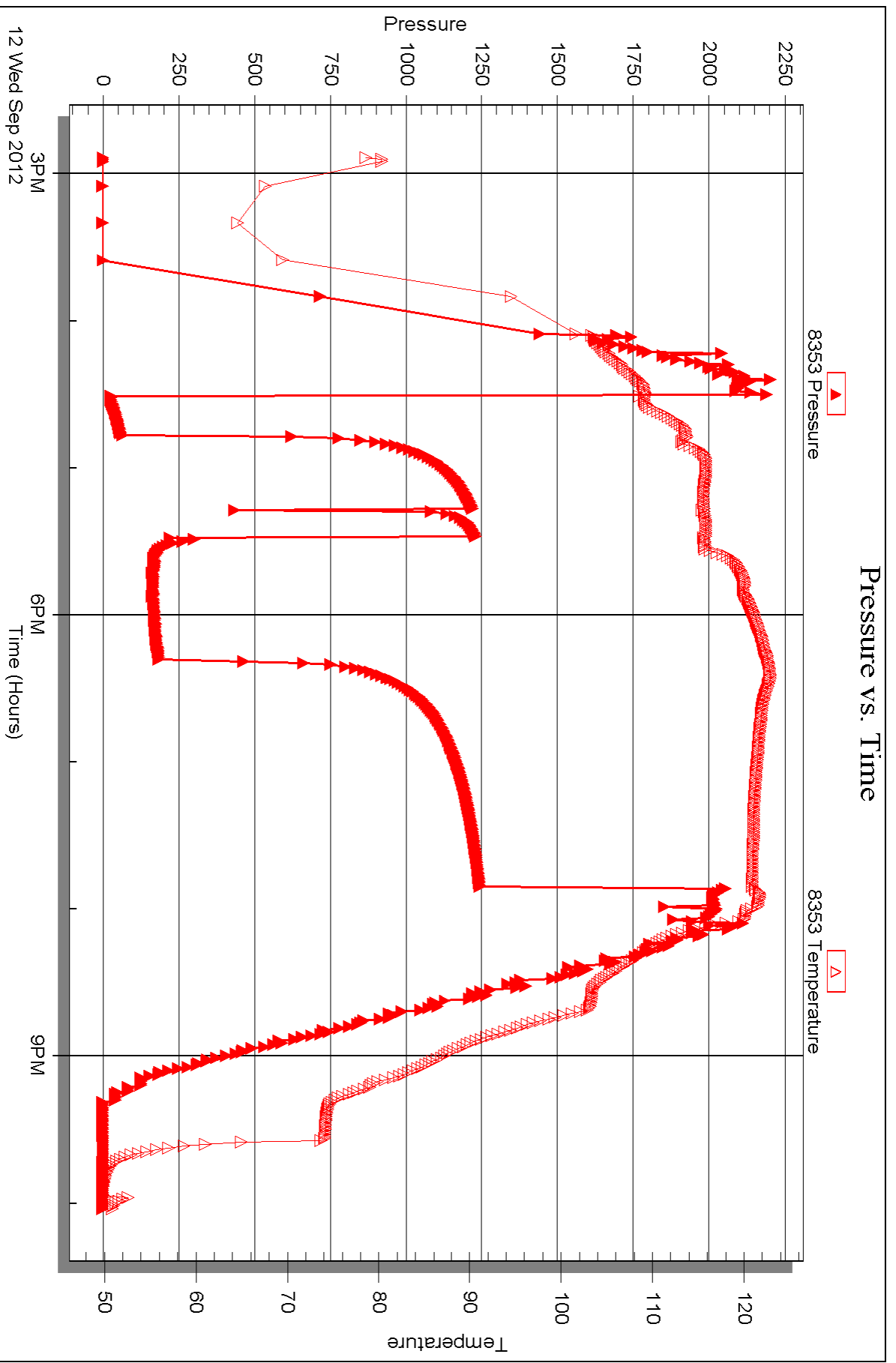


Serial #: 8353

Outside Norstar Petroleum

Slover-Weed #1-27

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum**

88 Inverness Cir E Unit F 104
Englewood CO 80112

ATTN: Bob Elder

Stover-Weed #1-27

27-10s-35w Thomas KS

Start Date: 2012.09.13 @ 11:14:00

End Date: 2012.09.13 @ 20:45:40

Job Ticket #: 48841 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.18 @ 14:33:25

Norstar Petroleum

27-10s-35w Thomas KS

Stover-Weed #1-27

DST # 3

LKC " J, K, L "

2012.09.13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum
 88 Inverness Cir E Unit F 104
 Englewood CO 80112
 ATTN: Bob Elder

27-10s-35w Thomas KS
Stover-Weed #1-27
 Job Ticket: 48841 **DST#: 3**
 Test Start: 2012.09.13 @ 11:14:00

GENERAL INFORMATION:

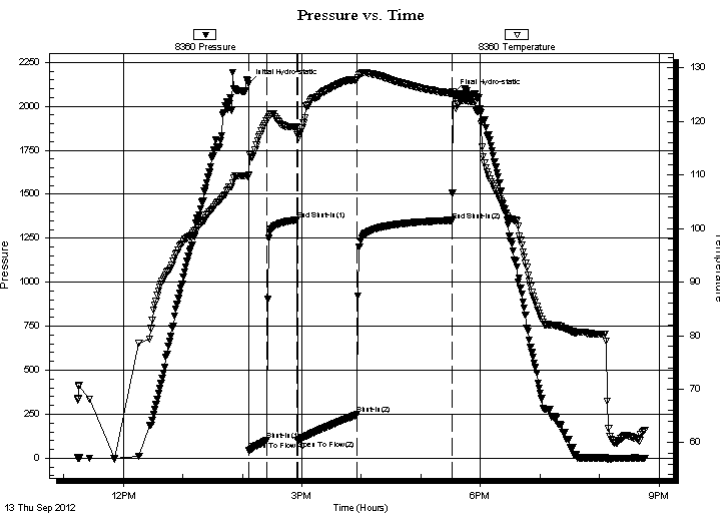
Formation: **LKC " J, K, L "**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 14:06:40
 Tester: Will MacLean
 Time Test Ended: 20:45:40
 Unit No: 40
 Interval: **4423.00 ft (KB) To 4495.00 ft (KB) (TVD)**
 Reference Elevations: 3321.00 ft (KB)
 Total Depth: 4495.00 ft (KB) (TVD)
 3313.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 248.82 psig @ 4424.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.13 End Date: 2012.09.13 Last Calib.: 2012.09.13
 Start Time: 11:14:00 End Time: 20:45:40 Time On Btm: 2012.09.13 @ 14:06:10
 Time Off Btm: 2012.09.13 @ 17:31:54

TEST COMMENT: IF- Strong Surface Blow Built to BOB in 4 min Chased the Tool 8' to Bottom
 IS- Weak Surface Blow in 8 1/4 min Built to 1"
 FF- Surface Blow Built to BOB in 7 3/4 min
 FS- Weak Surface Blow in 4 1/2 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2129.86	109.92	Initial Hydro-static
1	42.92	109.95	Open To Flow (1)
18	101.04	120.05	Shut-In(1)
49	1354.41	119.04	End Shut-In(1)
50	100.59	117.60	Open To Flow (2)
110	248.82	127.87	Shut-In(2)
206	1352.02	125.26	End Shut-In(2)
206	2073.33	125.51	Final Hydro-static

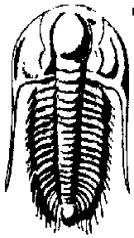
Recovery

Length (ft)	Description	Volume (bbl)
186.00	WMOCG 2%w 15%m 39%oil 44%g	2.61
124.00	WGMCO 4%w 15%g 20%m 61%oil	1.74
109.00	GMCO 19%g 24%m 57%oil	1.53
241.00	GO 17%g 83%oil	3.38
0.00	580' of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum
 88 Inverness Cir E Unit F 104
 Englewood CO 80112
 ATTN: Bob Elder

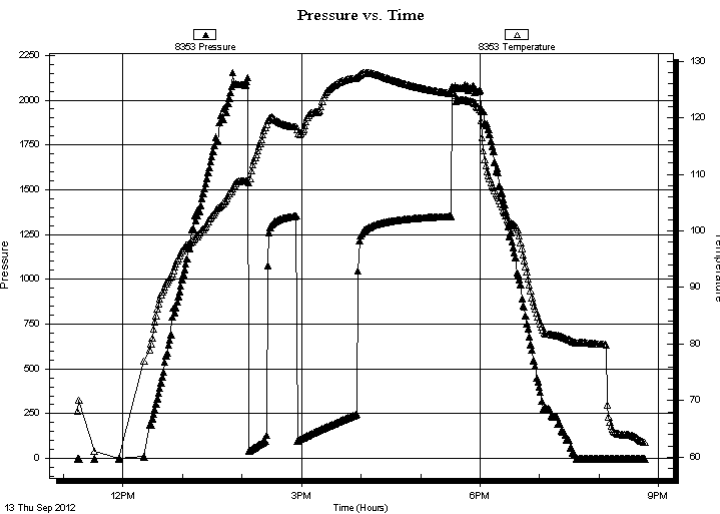
27-10s-35w Thomas KS
Stover-Weed #1-27
 Job Ticket: 48841 **DST#: 3**
 Test Start: 2012.09.13 @ 11:14:00

GENERAL INFORMATION:

Formation: **LKC " J, K, L "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:06:40
 Time Test Ended: 20:45:40
 Interval: **4423.00 ft (KB) To 4495.00 ft (KB) (TVD)**
 Total Depth: 4495.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Will MacLean
 Unit No: 40
 Reference Elevations: 3321.00 ft (KB)
 3313.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8353 Outside
 Press @ RunDepth: psig @ 4424.00 ft (KB)
 Start Date: 2012.09.13 End Date: 2012.09.13
 Start Time: 11:14:15 End Time: 20:45:45
 Capacity: 8000.00 psig
 Last Calib.: 2012.09.13
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF- Strong Surface Blow Built to BOB in 4 min
 IS- Weak Surface Blow in 8 1/4 min Built to 1"
 FF- Surface Blow Built to BOB in 7 3/4 min
 FS- Weak Surface Blow in 4 1/2 min
 Chased the Tool 8' to Bottom



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
186.00	WMOCG 2%w 15%m 39%oil 44%g	2.61
124.00	WGMCO 4%w 15%g 20%m 61%oil	1.74
109.00	GMCO 19%g 24%m 57%oil	1.53
241.00	GO 17%g 83%oil	3.38
0.00	580' of GIP	0.00

* Recovery from multiple tests

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum
88 Inverness Cir E Unit F 104
Englewood CO 80112
ATTN: Bob Elder

27-10s-35w Thomas KS
Stover-Weed #1-27
Job Ticket: 48841 **DST#: 3**
Test Start: 2012.09.13 @ 11:14:00

Tool Information

Drill Pipe:	Length: 4430.00 ft	Diameter: 3.80 inches	Volume: 62.14 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: 26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 28000.00 lb
			<u>Total Volume: 62.14 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4423.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	99.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4397.00	
Shut In Tool	5.00			4402.00	
Hydraulic tool	5.00			4407.00	
Jars	5.00			4412.00	
Safety Joint	2.00			4414.00	
Packer	5.00			4419.00	27.00 Bottom Of Top Packer
Packer	4.00			4423.00	
Stubb	1.00			4424.00	
Recorder	0.00	8360	Inside	4424.00	
Recorder	0.00	8353	Outside	4424.00	
Perforations	33.00			4457.00	
Change Over Sub	1.00			4458.00	
Drill Pipe	31.00			4489.00	
Change Over Sub	1.00			4490.00	
Perforations	2.00			4492.00	
Bullnose	3.00			4495.00	72.00 Bottom Packers & Anchor
Total Tool Length:	99.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum
88 Inverness Cir E Unit F 104
Englewood CO 80112
ATTN: Bob Elder

27-10s-35w Thomas KS
Stover-Weed #1-27
Job Ticket: 48841 **DST#: 3**
Test Start: 2012.09.13 @ 11:14:00

Mud and Cushion Information

Mud Type: Invert	Cushion Type:	Oil API: 32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.94 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 9800.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	WMOCG 2%w 15%m 39%oil 44%g	2.609
124.00	WGMCO 4%w 15%g 20%m 61%oil	1.739
109.00	GMCO 19%g 24%m 57%oil	1.529
241.00	GO 17%g 83%oil	3.381
0.00	580' of GIP	0.000

Total Length: 660.00 ft Total Volume: 9.258 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: API is 33 @ 70f = 32

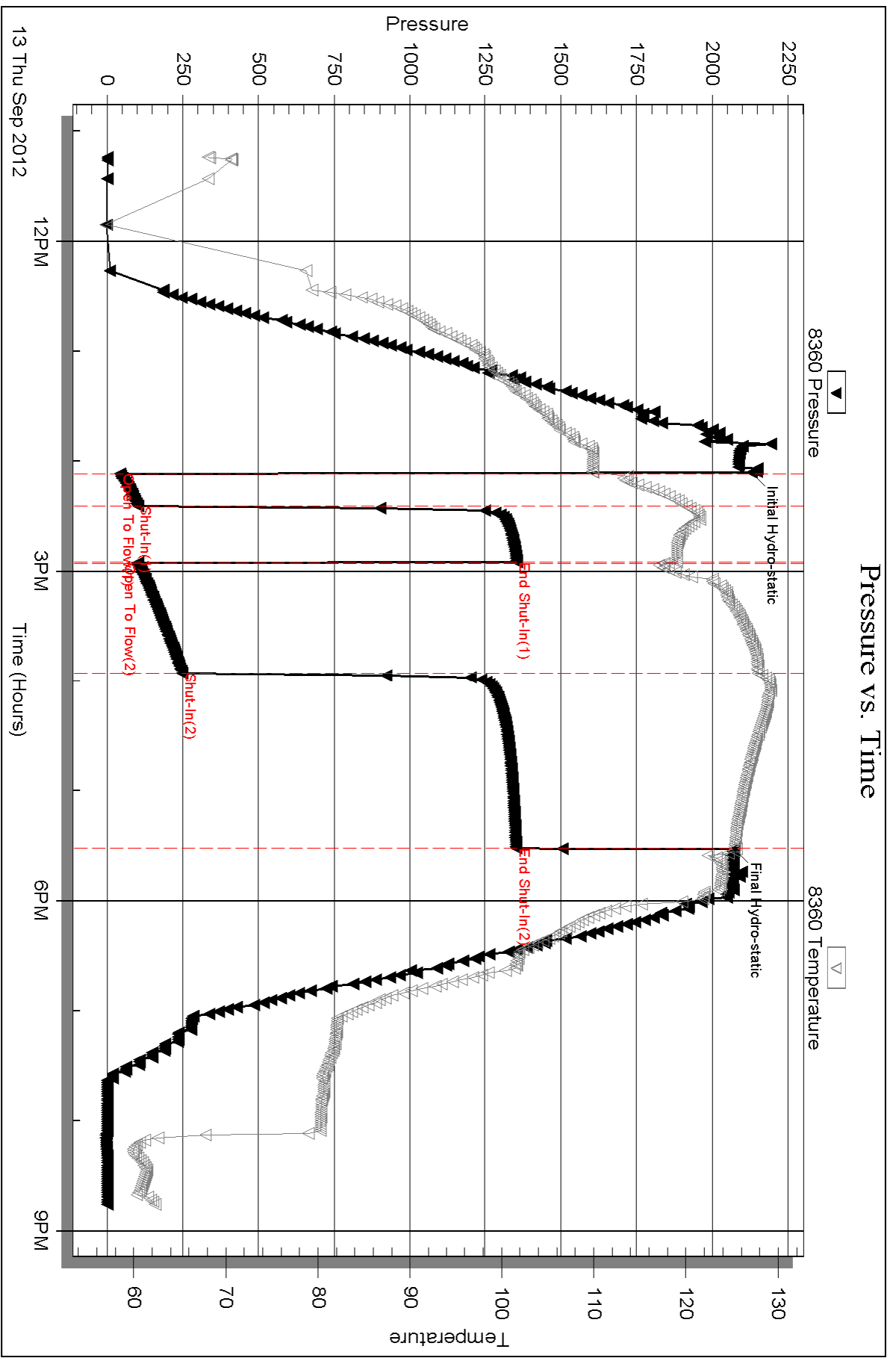
Serial #: 8360

Inside

Norstar Petroleum

Slover-Weed #1-27

DST Test Number: 3

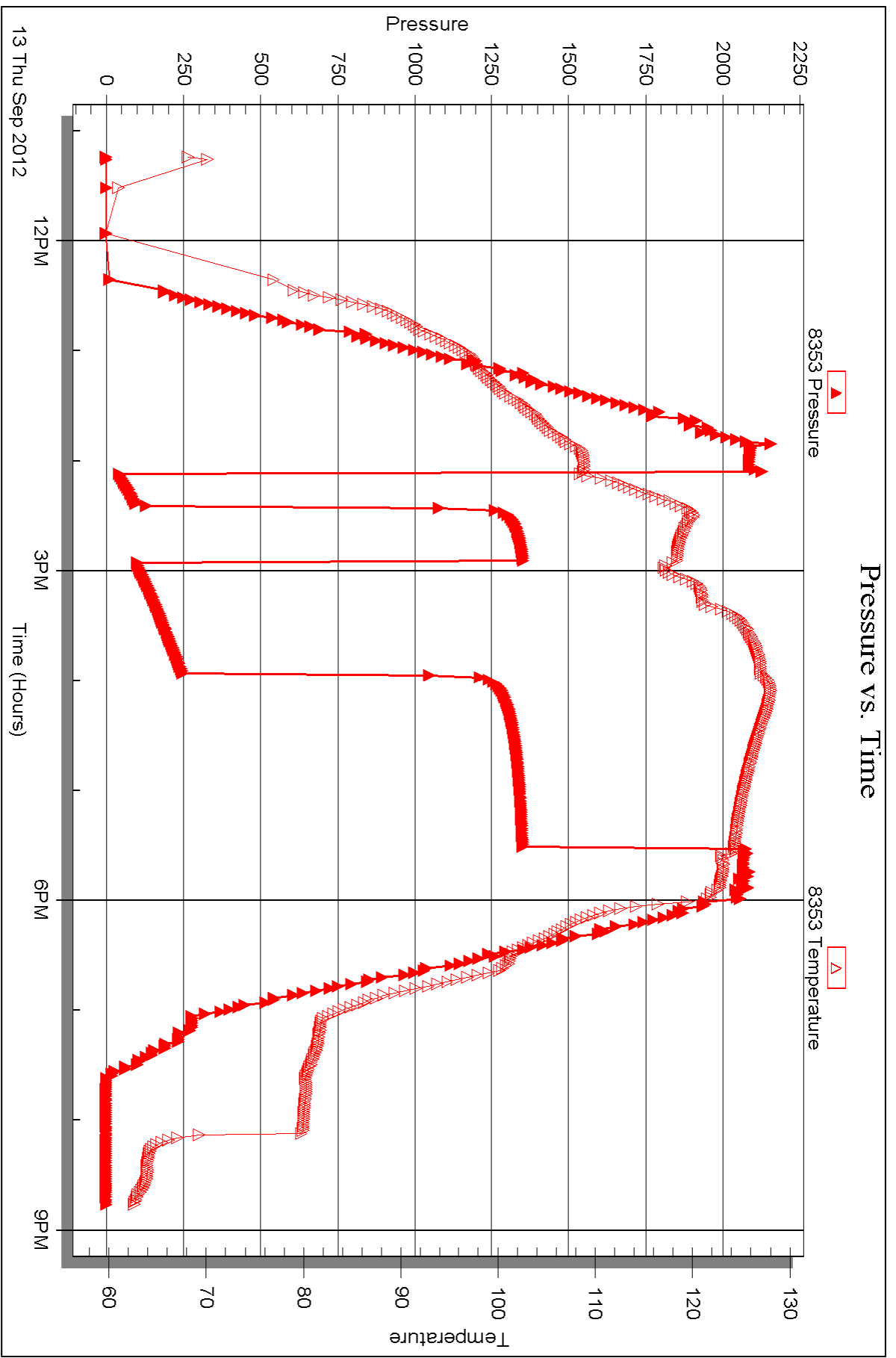


Serial #: 8353

Outside Norstar Petroleum

Slover-Weed #1-27

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum**

88 Inverness Cir E Unit F 104
Englewood CO 80112

ATTN: Bob Elder

Stover-Weed #1-27

27-10s-35w Thomas KS

Start Date: 2012.09.15 @ 03:42:00

End Date: 2012.09.15 @ 10:58:09

Job Ticket #: 48842 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.09.18 @ 14:32:25

Norstar Petroleum
27-10s-35w Thomas KS
Stover-Weed #1-27
DST # 4
Johnson
2012.09.15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum
88 Inverness Cir E Unit F 104
Englewood CO 80112
ATTN: Bob Elder

27-10s-35w Thomas KS

Stover-Weed #1-27

Job Ticket: 48842

DST#: 4

Test Start: 2012.09.15 @ 03:42:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:14:25
Time Test Ended: 10:58:09
Interval: **4744.00 ft (KB) To 4804.00 ft (KB) (TVD)**
Total Depth: 4804.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 3321.00 ft (KB)
3313.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Will MacLean
Unit No: 40

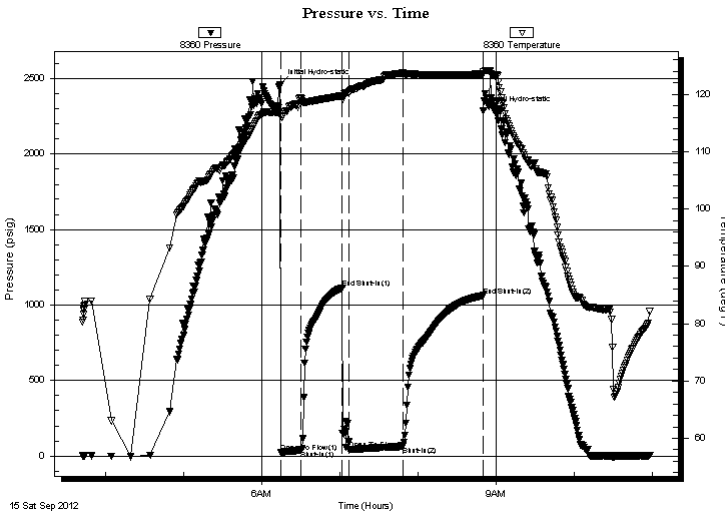
Serial #: 8360

Inside

Press @ Run Depth: 63.01 psig @ 4745.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.09.15 End Date: 2012.09.15 Last Calib.: 2012.09.15
Start Time: 03:42:00 End Time: 10:58:09 Time On Btm: 2012.09.15 @ 06:14:10
Time Off Btm: 2012.09.15 @ 08:50:24

TEST COMMENT: IF- Weak Surface Blow Built to 2"
IS- No Blow
FF- Weak Surface Blow Built to 1 3/4"
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2464.82	117.04	Initial Hydro-static
1	25.82	116.16	Open To Flow (1)
16	36.48	119.13	Shut-In(1)
48	1114.29	119.75	End Shut-In(1)
53	43.59	120.20	Open To Flow (2)
94	63.01	123.71	Shut-In(2)
156	1063.24	123.54	End Shut-In(2)
157	2285.67	124.00	Final Hydro-static

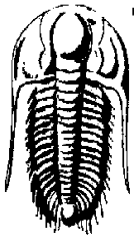
Recovery

Length (ft)	Description	Volume (bbl)
90.00	OCM 2%oil 98% m	1.26

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum
88 Inverness Cir E Unit F 104
Englewood CO 80112
ATTN: Bob Elder

27-10s-35w Thomas KS

Stover-Weed #1-27

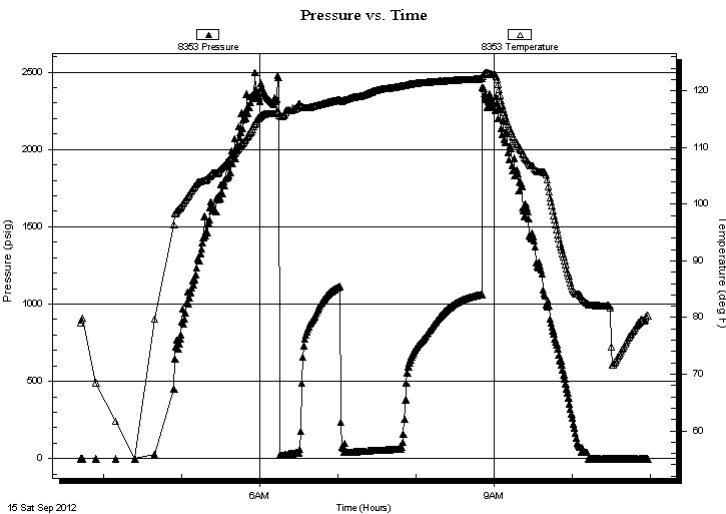
Job Ticket: 48842 **DST#: 4**
Test Start: 2012.09.15 @ 03:42:00

GENERAL INFORMATION:

Formation: Johnson			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 06:14:25		Tester: Will MacLean	
Time Test Ended: 10:58:09		Unit No: 40	
Interval: 4744.00 ft (KB) To 4804.00 ft (KB) (TVD)		Reference Elevations: 3321.00 ft (KB)	
Total Depth: 4804.00 ft (KB) (TVD)		3313.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 8.00 ft	

Serial #: 8353	Outside		
Press @ RunDepth: psig @	4745.00 ft (KB)	Capacity: 8000.00 psig	
Start Date: 2012.09.15	End Date: 2012.09.15	Last Calib.: 2012.09.15	
Start Time: 03:42:15	End Time: 10:58:15	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF- Weak Surface Blow Built to 2"
 IS- No Blow
 FF- Weak Surface Blow Built to 1 3/4"
 FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OCM 2%oil 98% m	1.26

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum
88 Inverness Cir E Unit F 104
Englewood CO 80112
ATTN: Bob Elder

27-10s-35w Thomas KS
Stover-Weed #1-27
Job Ticket: 48842 **DST#: 4**
Test Start: 2012.09.15 @ 03:42:00

Tool Information

Drill Pipe:	Length: 4741.00 ft	Diameter: 3.80 inches	Volume: 66.50 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: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 66.50 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4744.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4718.00	
Shut In Tool	5.00			4723.00	
Hydraulic tool	5.00			4728.00	
Jars	5.00			4733.00	
Safety Joint	2.00			4735.00	
Packer	5.00			4740.00	27.00 Bottom Of Top Packer
Packer	4.00			4744.00	
Stubb	1.00			4745.00	
Recorder	0.00	8360	Inside	4745.00	
Recorder	0.00	8353	Outside	4745.00	
Perforations	23.00			4768.00	
Change Over Sub	1.00			4769.00	
Drill Pipe	31.00			4800.00	
Change Over Sub	1.00			4801.00	
Bullnose	3.00			4804.00	60.00 Bottom Packers & Anchor

Total Tool Length: 87.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum
88 Inverness Cir E Unit F 104
Englewood CO 80112
ATTN: Bob Elder

27-10s-35w Thomas KS
Stover-Weed #1-27
Job Ticket: 48842 **DST#: 4**
Test Start: 2012.09.15 @ 03:42:00

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: 8.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 11000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	OCM 2%oil 98%m	1.262

Total Length: 90.00 ft Total Volume: 1.262 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

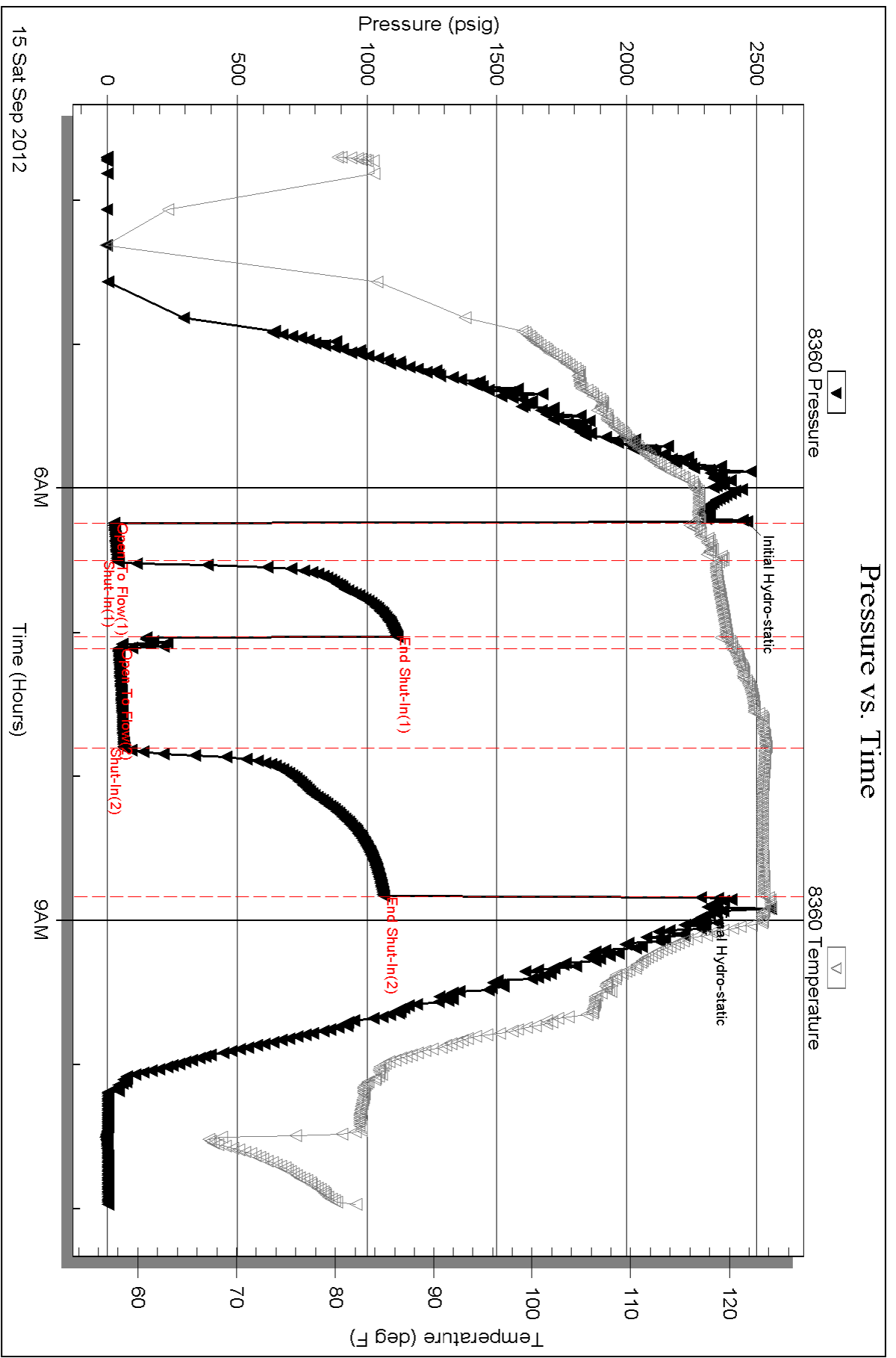
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Inside

Norstar Petroleum

Slover-Weed #1-27

DST Test Number: 4

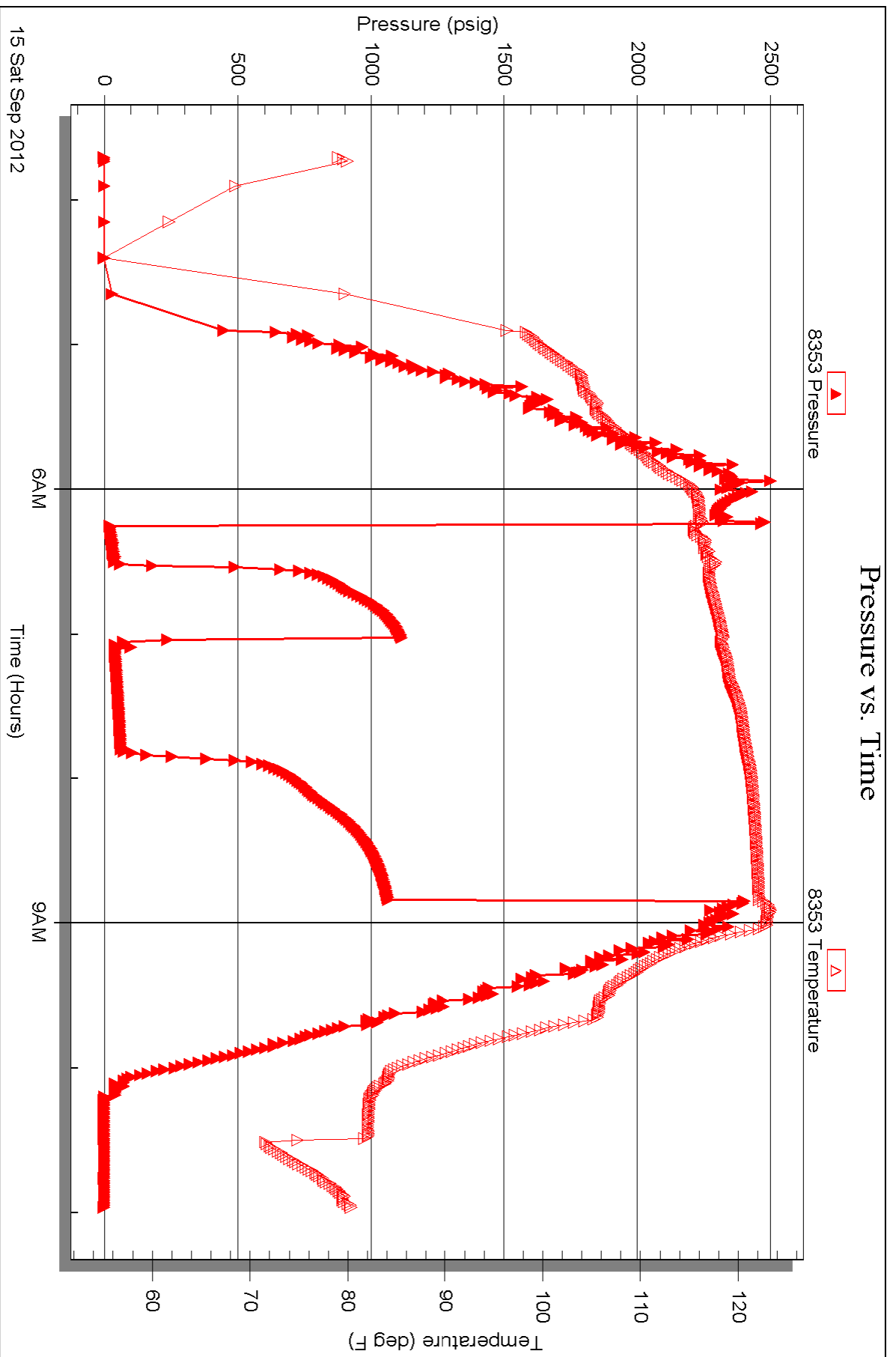


Serial #: 8353

Outside Norstar Petroleum

Slover-Weed #1-27

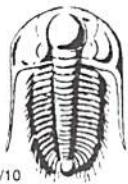
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 48842

Printed: 2012.09.18 @ 14:32:30



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50014

Well Name & No. Stover-Weed #1-27 Test No. 1 Date 9-11-12
 Company Norstar Petroleum Elevation 3326 KB 3513 GL
 Address 88 Inverness Cir E Unit F104 Englewood, CO 80112
 Co. Rep / Geo. Bob Elder Rig Mavnich #108
 Location: Sec. 27 Twp. 10S Rge. 35W Co. Thomas State KS

Interval Tested 4166-4200 Zone Tested Toronto
 Anchor Length 34' Drill Pipe Run 4148 Mud Wt. 8.8
 Top Packer Depth 4162 Drill Collars Run 0 Vis. 47
 Bottom Packer Depth 4166 Wt. Pipe Run 0 WL 8.4
 Total Depth 4200 Chlorides 8900 ppm System LCM 31

Blow Description IF - B.O.B. - 7mins
ESI - Dead No Blow Back
FF - B.O.B. - 15mins
FST - Dead No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>496</u>	<u>15mcw</u>			<u>95</u>	<u>4</u>
<u>298</u>	<u>15WCM Spots of Oil on top of tool</u>			<u>5</u>	<u>95</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

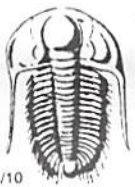
Rec Total 794 BHT 124 Gravity — API RW 126 @ 100 °F Chlorides 38000 ppm
 (A) Initial Hydrostatic 2123 Test 1250 T-On Location 9:58
 (B) First Initial Flow 33 Jars 250 T-Started 9:27
 (C) First Final Flow 114 Safety Joint 75 T-Open 11:49
 (D) Initial Shut-In 1235 Circ Sub N/C T-Pulled 15:04
 (E) Second Initial Flow 208 Hourly Standby T-Out 16:50
 (F) Second Final Flow 478 Mileage 136 R/T 212.35
 (G) Final Shut-In 1235 Sampler
 (H) Final Hydrostatic 1910 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1787.35
 Accessibility MP/DST Disc't

Initial Open 15
 Initial Shut-In 30
 Final Flow 60 90
 Final Shut-In

Sub Total 1787.35

Approved By [Signature] Our Representative [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. 48840

Well Name & No. Stover - Weed # 1-27 Test No. DST # 2 Date 9-12-12
 Company Norstar Petroleum Elevation 3321 KB 3313 GL
 Address 88 Inverness Cir. E Unit F 104 Englewood CO. 80112
 Co. Rep / Geo. Bob Elder Rig Maurick # 108
 Location: Sec. 27 Twp. 10s Rge. 35W Co. Thomas State KS

Interval Tested 4350 - 4420 Zone Tested LKC "H&I"
 Anchor Length 70 Drill Pipe Run 4335 Mud Wt. 9.2
 Top Packer Depth 4346 Drill Collars Run 0 Vis 47
 Bottom Packer Depth 4350 Wt. Pipe Run 0 WL 10.4
 Total Depth 4420 Chlorides 14,200 ppm System LCM ~~11000~~ 216
 Blow Description IF - Surface Blow Built to 6"
ISI - No Blow
FF - Weak Surface Blow Built to BOB in 50 min
FST - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>82</u>	<u>OGCM</u>	<u>4</u>	<u>1</u>	<u>95</u>	<u>95</u>
<u>62</u>	<u>GWCM with skin of 0.1</u>	<u>8</u>	<u>18</u>	<u>74</u>	<u>74</u>
<u>62</u>	<u>GMCW</u>	<u>7</u>	<u>59</u>	<u>34</u>	<u>34</u>
<u>62</u>	<u>CMCW</u>	<u>12</u>	<u>66</u>	<u>22</u>	<u>22</u>

Rec Total 268 BHT 118 Gravity API RW .238 @ 56 °F Chlorides _____ ppm

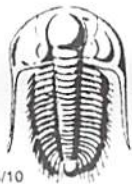
(A) Initial Hydrostatic 2182 Test 1250 T-On Location 14:40
 (B) First Initial Flow 28 Jars 250 T-Started 14:54
 (C) First Final Flow 57 Safety Joint 75 T-Open 16:30
 (D) Initial Shut-In 1231 Circ Sub T-Pulled 19:51
 (E) Second Initial Flow 166 Hourly Standby T-Out 22:02
 (F) Second Final Flow 185 Mileage 137 RIT 212.35 Comments _____
 (G) Final Shut-In 1244 Sampler _____
 (H) Final Hydrostatic 2053 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 15 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 60 Extra Copies _____
 Final Shut-In 90 Sub Total 0
 Total 1787.35
 MP/DST Disc't _____

Sub Total 1787.35

Approved By Randy Eld Our Representative John Mc

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48841

Well Name & No. Stover-Wood #1-27 Test No. DST #3 Date 9-13-12
 Company Norstar Petroleum Elevation 3321 KB 3313 GL
 Address 88 Inverness Cir E Unit F104 Englewood CO 80112
 Co. Rep / Geo. Bob Elder Rig Mavrick #108
 Location: Sec. 27 Twp. 10s Rge. 35w Co. Thomas State KS

Interval Tested 4423-4495 Zone Tested LHC "J, K, L"
 Anchor Length 72 Drill Pipe Run 4430 Mud Wt. 9.0
 Top Packer Depth 4419 Drill Collars Run 0 Vis 47
 Bottom Packer Depth 4423 Wt. Pipe Run 0 WL 8.0
 Total Depth 4495 Chlorides 9800 ppm System LCM 116

Blow Description IF - Strong Surface Blow Built to BOB in 4min
ISI - Weak Surface Blow in 8 1/4 min Built to 1"
FF - Surface Blow Built to BOB in 7 1/4 min
F5I - Weak Surface Blow in 4 1/2 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>241</u>	<u>G-O</u>	<u>17</u>	<u>83</u>		
<u>109</u>	<u>G-MCO</u>	<u>19</u>	<u>57</u>		<u>24</u>
<u>124</u>	<u>WGMCO</u>	<u>15</u>	<u>61</u>	<u>4</u>	<u>20</u>
<u>186</u>	<u>WMOCG</u>	<u>44</u>	<u>39</u>	<u>2</u>	<u>15</u>
	<u>580' of G-IP</u>				

Rec Total _____ BHT 125 Gravity 32 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2129 Test 1250 T-On Location 8:34
 (B) First Initial Flow 42 Jars 250 T-Started 11:14
 (C) First Final Flow 101 Safety Joint 75 T-Open 14:06
 (D) Initial Shut-In 1354 Circ Sub _____ T-Pulled 17:31
 (E) Second Initial Flow 100 Hourly Standby _____ T-Out 20:45
 (F) Second Final Flow 248 Mileage 137 212.35 Comments _____
 (G) Final Shut-In 1352 Sampler _____ API is 33 @ 70 f = 32
 (H) Final Hydrostatic 2073 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1787.35
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1787.35

Approved By Roy Eld Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48842

Well Name & No. Stover-Weed #1-27 Test No. DST #4 Date 9-15-12
 Company Norstar Petroleum Elevation 3321 KB 3313 GL
 Address 88 Inverness Cir E Unit F104 Englewood CO 80112
 Co. Rep / Geo. Bob Elder Rig Mavrick #108
 Location: Sec. 27 Twp. 10s Rge. 35w Co. Thomas State KS

Interval Tested 4744-4804 Zone Tested Johnson
 Anchor Length 60 Drill Pipe Run 4741 Mud Wt. 9.1
 Top Packer Depth 4740 Drill Collars Run 0 Vis 52
 Bottom Packer Depth 4744 Wt. Pipe Run 0 WL 8.4
 Total Depth 4804 Chlorides 11,000 ppm System LCM 1 1/2 lb

Blow Description IF- Weak Surface Blow Built to 2"
ISI- No Blow
FF- Weak Surface Blow Built to 1 3/4"
FST- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>OCM</u>		<u>2</u>		<u>98</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 90 BHT 117 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2464 Test 1250 T-On Location 1:46
 (B) First Initial Flow 25 Jars 250 T-Started 3:42
 (C) First Final Flow 36 Safety Joint 75 T-Open 6:14
 (D) Initial Shut-In 1114 Circ Sub _____ T-Pulled 8:50
 (E) Second Initial Flow 43 Hourly Standby _____ T-Out 10:58
 (F) Second Final Flow 63 Mileage 137 R/T 212.35 Comments _____
 (G) Final Shut-In 1063 Sampler _____
 (H) Final Hydrostatic 2285 Straddle _____

Initial Open 15 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Extra Packer _____ Ruined Packer _____
 Final Flow 45 Extra Recorder _____ Sub Total 0
 Final Shut-In 60 Day Standby _____ Total 1787.35
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1787.35

Approved By Bob Elder Our Representative Kim M...

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.