



DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum, Inc.**

88 Inerness CIR E unit F104
Englewood CO 80112

ATTN: Brad Rine

Epard-Seele #1-33

33-10s-34w Thomas,KS

Start Date: 2012.12.12 @ 21:39:00

End Date: 2012.12.13 @ 05:15:30

Job Ticket #: 51386 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.18 @ 10:15:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum, Inc.
 88 Inerness CIR E unit F104
 Englewood CO 80112
 ATTN: Brad Rine

33-10s-34w Thomas,KS
Epard-Seele #1-33
 Job Ticket: 51386 **DST#: 1**
 Test Start: 2012.12.12 @ 21:39:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:34:00
 Time Test Ended: 05:15:30
 Interval: **4295.00 ft (KB) To 4375.00 ft (KB) (TVD)**
 Total Depth: 4375.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Nichols
 Unit No: 64
 Reference Elevations: 3237.00 ft (KB)
 3232.00 ft (CF)
 KB to GR/CF: 5.00 ft

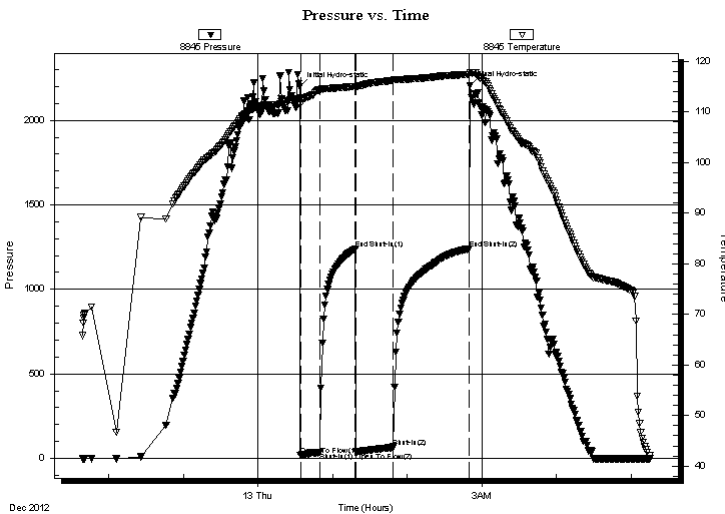
Serial #: 8845

Outside

Press @ Run Depth: 64.93 psig @ 4296.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.12 End Date: 2012.12.13 Last Calib.: 2012.12.13
 Start Time: 21:39:05 End Time: 05:15:29 Time On Btm: 2012.12.13 @ 00:33:45
 Time Off Btm: 2012.12.13 @ 02:50:30

TEST COMMENT: 15 IF - Surface blow bluit to 1"
 30 ISI - No return
 30 FF - Surface blow started @ 5 mins
 60 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.50	112.75	Initial Hydro-static
1	17.45	111.40	Open To Flow (1)
16	35.83	114.35	Shut-In(1)
45	1239.11	115.03	End Shut-In(1)
45	38.68	114.62	Open To Flow (2)
75	64.93	116.25	Shut-In(2)
137	1240.63	117.45	End Shut-In(2)
137	2207.01	117.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud - 100%	0.34

Gas Rates

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



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 ATTN: Brad Rine

33-10s-34w Thomas,KS
Epard-Seele #1-33
 Job Ticket: 51386 **DST#: 1**
 Test Start: 2012.12.12 @ 21:39:00

GENERAL INFORMATION:

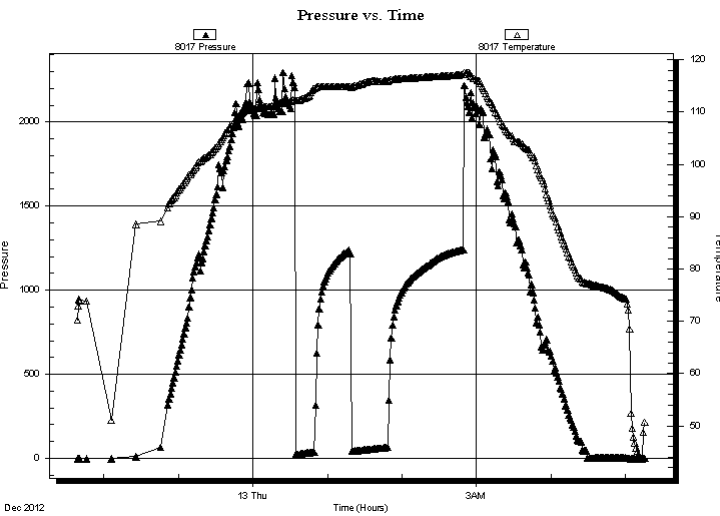
Formation: **LKC "H - J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:34:00 Tester: Ryan Nichols
 Time Test Ended: 05:15:30 Unit No: 64
 Interval: **4295.00 ft (KB) To 4375.00 ft (KB) (TVD)** Reference Elevations: 3237.00 ft (KB)
 Total Depth: 4375.00 ft (KB) (TVD) 3232.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8017

Outside

Press @ Run Depth: psig @ 4296.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.12 End Date: 2012.12.13 Last Calib.: 2012.12.13
 Start Time: 21:38:50 End Time: 05:15:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15 IF - Surface blow bluit to 1"
 30 ISI - No return
 30 FF - Surface blow started @ 5 mins
 60 FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud - 100%	0.34

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum, Inc.

33-10s-34w Thomas,KS

88 Inerness CIR E unit F104
Englewood CO 80112

Epard-Seele #1-33

Job Ticket: 51386

DST#: 1

ATTN: Brad Rine

Test Start: 2012.12.12 @ 21:39:00

Tool Information

Drill Pipe:	Length: 4168.00 ft	Diameter: 3.80 inches	Volume: 58.47 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 59.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4295.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	108.00 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			4268.00	
Shut In Tool	5.00			4273.00	
Hydraulic tool	5.00			4278.00	
Jars	5.00			4283.00	
Safety Joint	3.00			4286.00	
Packer	5.00			4291.00	28.00 Bottom Of Top Packer
Packer	4.00			4295.00	
Stubb	1.00			4296.00	
Recorder	0.00	8017	Outside	4296.00	
Recorder	0.00	8845	Outside	4296.00	
Perforations	10.00			4306.00	
Blank Spacing	64.00			4370.00	
Bullnose	5.00			4375.00	80.00 Bottom Packers & Anchor

Total Tool Length: 108.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum, Inc.

33-10s-34w Thomas,KS

88 Inerness CIR E unit F104
Englewood CO 80112

Epard-Seele #1-33

Job Ticket: 51386

DST#: 1

ATTN: Brad Rine

Test Start: 2012.12.12 @ 21:39:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Mud - 100%	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

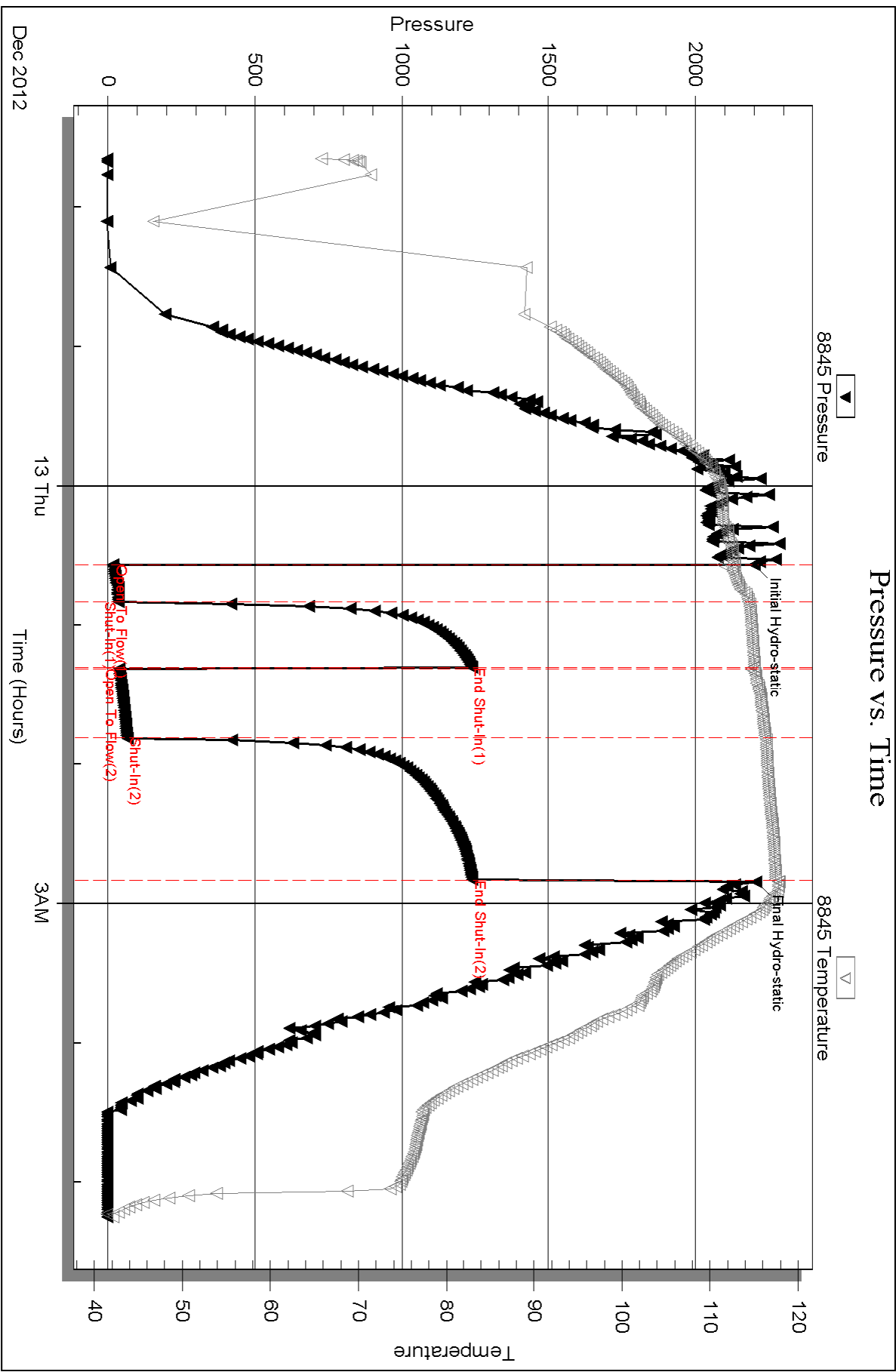
Recovery Comments:

Serial #: 8845

Outside Norstar Petroleum, Inc.

Epard-Seele #1-33

DST Test Number: 1

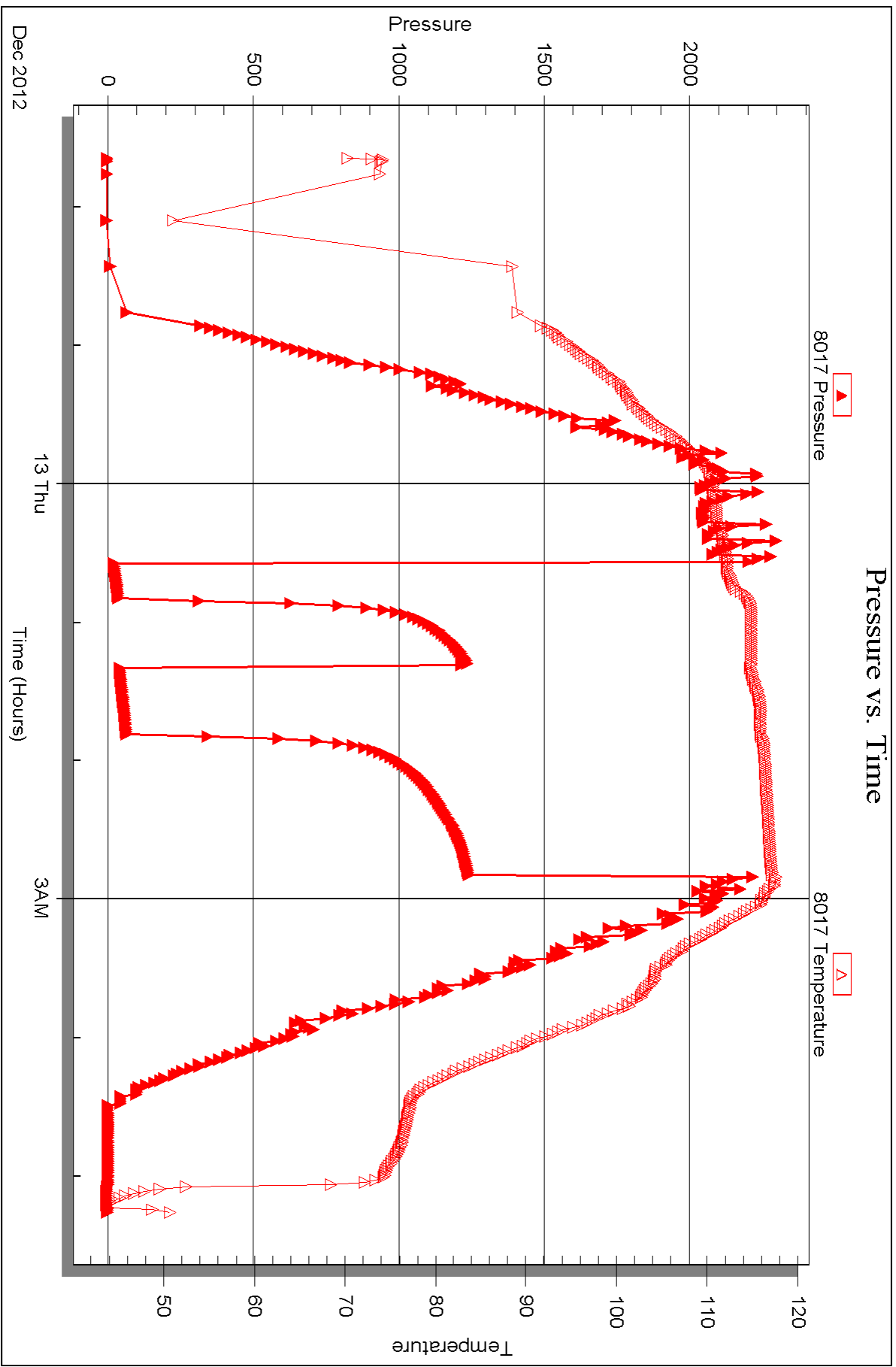


Serial #: 8017

Outside Norstar Petroleum, Inc.

Epard-Seele #1-33

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum, Inc.**

88 Inerness CIR E unit F104
Englewood CO 80112

ATTN: Brad Rine

Epard-Seele #1-33

33-10s-34w Thomas,KS

Start Date: 2012.12.13 @ 13:29:00

End Date: 2012.12.13 @ 21:02:30

Job Ticket #: 51387 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.18 @ 10:14:53

Norstar Petroleum, Inc.

33-10s-34w Thomas,KS

Epard-Seele #1-33

DST # 2

LKC " K "

2012.12.13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum, Inc.
 88 Inerness CIR E unit F104
 Englewood CO 80112
 ATTN: Brad Rine

33-10s-34w Thomas,KS
Epard-Seele #1-33
 Job Ticket: 51387 **DST#: 2**
 Test Start: 2012.12.13 @ 13:29:00

GENERAL INFORMATION:

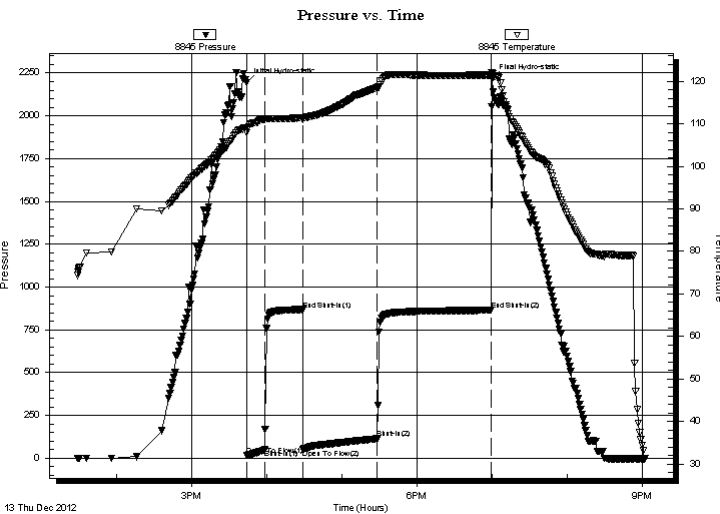
Formation: **LKC " K "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:44:15
 Time Test Ended: 21:02:30
 Interval: **4376.00 ft (KB) To 4410.00 ft (KB) (TVD)**
 Total Depth: 4410.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Nichols
 Unit No: 64
 Reference Elevations: 3237.00 ft (KB)
 3232.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8845

Outside

Press @ Run Depth: 113.79 psig @ 4377.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.13 End Date: 2012.12.13 Last Calib.: 2012.12.13
 Start Time: 13:29:05 End Time: 21:02:29 Time On Btm: 2012.12.13 @ 15:44:00
 Time Off Btm: 2012.12.13 @ 19:00:15

TEST COMMENT: 15 IF - Surface blow bluit to 2 1/4"
 30 ISI - No return
 60 FF - Surface blow started @ 3 mins built to 7 1/4"
 90 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.02	109.03	Initial Hydro-static
1	16.10	107.90	Open To Flow (1)
15	49.94	110.94	Shut-In(1)
45	868.17	111.48	End Shut-In(1)
45	53.72	111.01	Open To Flow (2)
105	113.79	118.51	Shut-In(2)
196	864.55	121.50	End Shut-In(2)
197	2216.28	121.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMCW - 5%G - 40%M - 55%W	0.30
62.00	GMCW - 5%G - 45%M - 50%W	0.30
62.00	GWCM - 5%G - 30%W - 65%M	0.87
50.00	Mud - 5%G - 95%M	0.70

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

Norstar Petroleum, Inc.
 88 Inerness CIR E unit F104
 Englewood CO 80112
 ATTN: Brad Rine

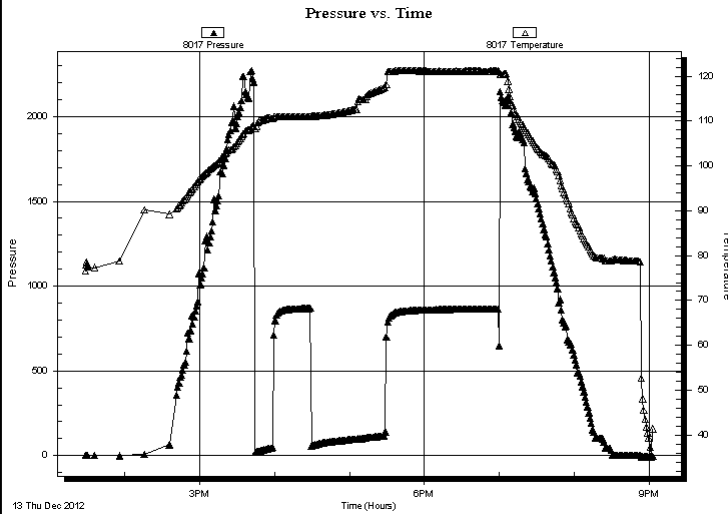
33-10s-34w Thomas,KS
Epard-Seele #1-33
 Job Ticket: 51387 **DST#: 2**
 Test Start: 2012.12.13 @ 13:29:00

GENERAL INFORMATION:

Formation: **LKC " K "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:44:15
 Time Test Ended: 21:02:30
Interval: 4376.00 ft (KB) To 4410.00 ft (KB) (TVD)
 Total Depth: 4410.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Nichols
 Unit No: 64
 Reference Elevations: 3237.00 ft (KB)
 3232.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8017 Outside
 Press @ Run Depth: psig @ 4377.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.13 End Date: 2012.12.13 Last Calib.: 2012.12.13
 Start Time: 13:28:50 End Time: 21:02:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15 IF - Surface blow bluit to 2 1/4"
 30 ISI - No return
 60 FF - Surface blow started @ 3 mins built to 7 1/4"
 90 FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMCW - 5%G - 40%M - 55%W	0.30
62.00	GMCW - 5%G - 45%M - 50%W	0.30
62.00	GWCM - 5%G - 30%W - 65%M	0.87
50.00	Mud - 5%G - 95%M	0.70

* 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, Inc.

33-10s-34w Thomas,KS

88 Inerness CIR E unit F104
Englewood CO 80112

Epard-Seele #1-33

Job Ticket: 51387

DST#: 2

ATTN: Brad Rine

Test Start: 2012.12.13 @ 13:29:00

Tool Information

Drill Pipe:	Length: 4232.00 ft	Diameter: 3.80 inches	Volume: 59.36 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 59.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4376.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	62.00 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			4349.00	
Shut In Tool	5.00			4354.00	
Hydraulic tool	5.00			4359.00	
Jars	5.00			4364.00	
Safety Joint	3.00			4367.00	
Packer	5.00			4372.00	28.00 Bottom Of Top Packer
Packer	4.00			4376.00	
Stubb	1.00			4377.00	
Recorder	0.00	8017	Outside	4377.00	
Recorder	0.00	8845	Outside	4377.00	
Perforations	28.00			4405.00	
Bullnose	5.00			4410.00	34.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum, Inc.

33-10s-34w Thomas,KS

88 Inerness CIR E unit F104
Englewood CO 80112

Epard-Seele #1-33

Job Ticket: 51387

DST#: 2

ATTN: Brad Rine

Test Start: 2012.12.13 @ 13:29:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 47.00 sec/qt
Water Loss: 8.38 in³
Resistivity: ohm.m
Salinity: 6400.00 ppm
Filter Cake: 2.00 inches

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

Oil API: deg API
Water Salinity: 70000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GMCW - 5%G - 40%M - 55%W	0.305
62.00	GMCW - 5%G - 45%M - 50%W	0.305
62.00	GWCM - 5%G - 30%W - 65%M	0.870
50.00	Mud - 5%G - 95%M	0.701

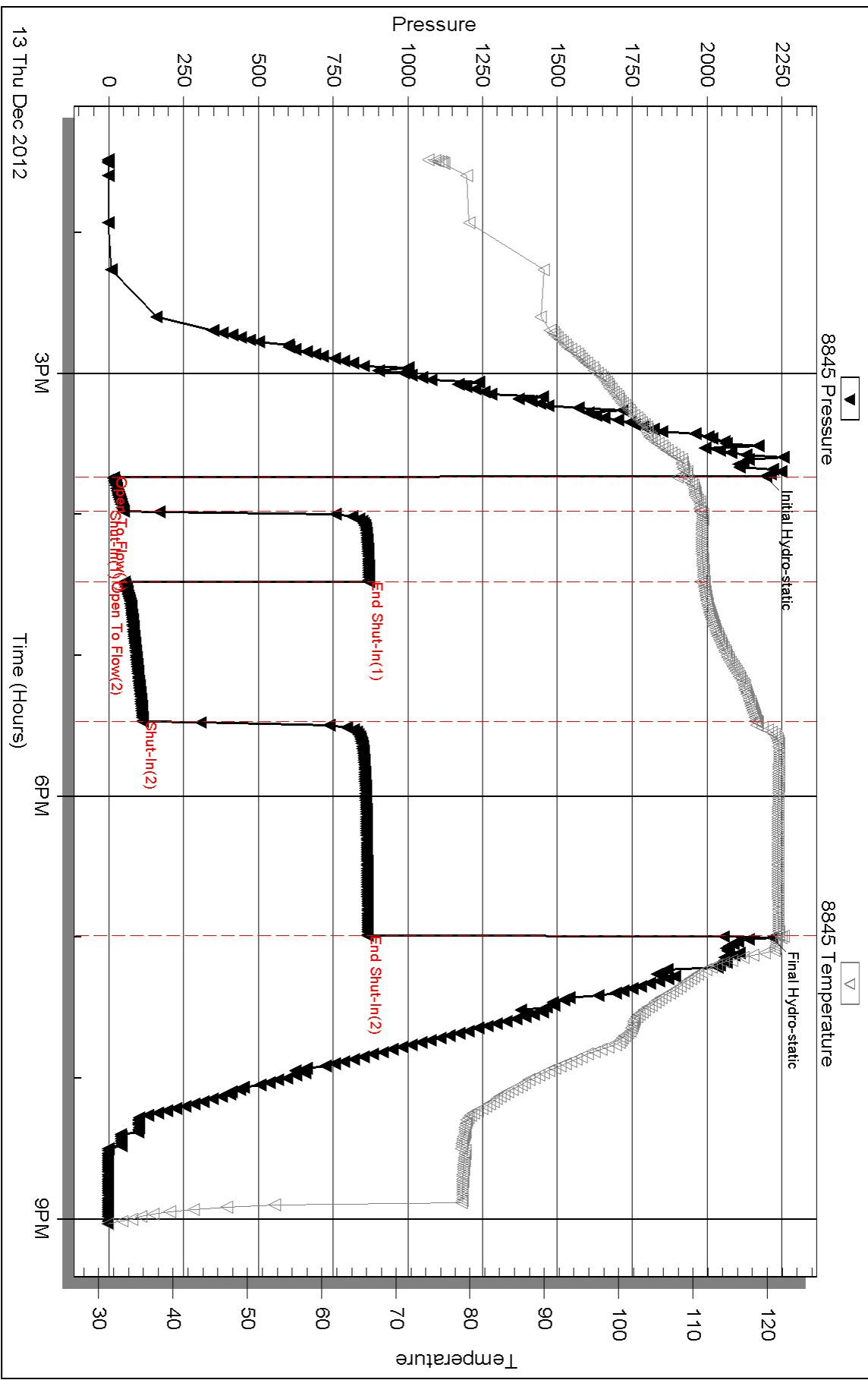
Total Length: 236.00 ft Total Volume: 2.181 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 33 Deg F @ .233 70,000 ppm

Pressure vs. Time

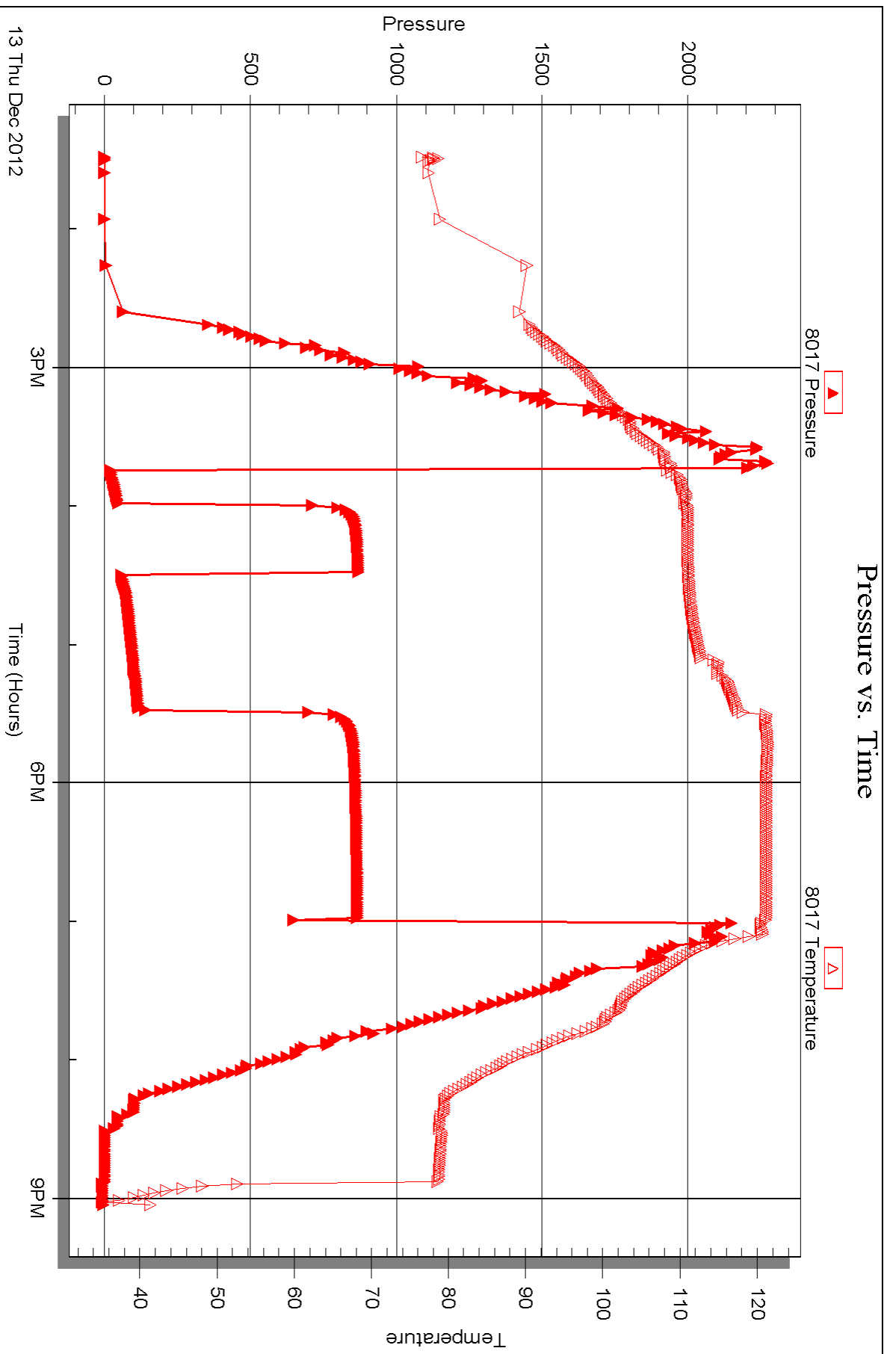


Serial #: 8017

Outside Norstar Petroleum, Inc.

Epard-Seele #1-33

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum, Inc.**

88 Inerness CIR E unit F104
Englewood CO 80112

ATTN: Brad Rine

Epard-Seele #1-33

33-10s-34w Thomas,KS

Start Date: 2012.12.15 @ 07:15:00

End Date: 2012.12.15 @ 15:56:00

Job Ticket #: 51388 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.18 @ 10:14:06

Norstar Petroleum, Inc.

33-10s-34w Thomas,KS

Epard-Seele #1-33

DST # 3

Johnson

2012.12.15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum, Inc.
 88 Inerness CIR E unit F104
 Englewood CO 80112
 ATTN: Brad Rine

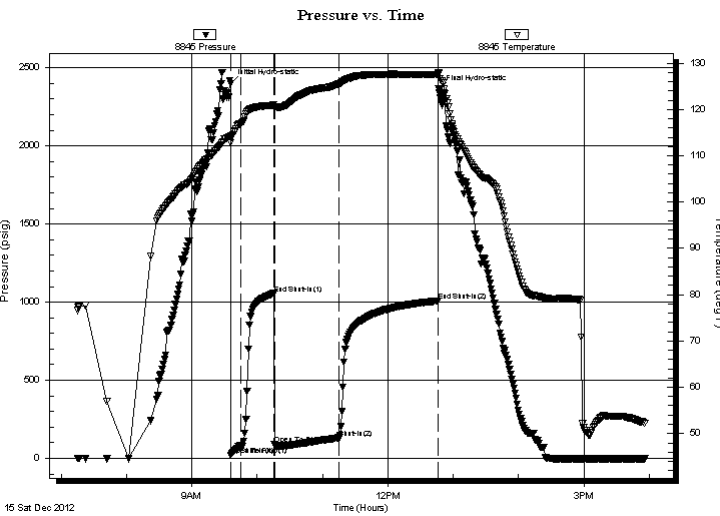
33-10s-34w Thomas,KS
Epard-Seele #1-33
 Job Ticket: 51388 **DST#: 3**
 Test Start: 2012.12.15 @ 07:15:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 09:35:45 Tester: Ryan Nichols
 Time Test Ended: 15:56:00 Unit No: 64
 Interval: **4673.00 ft (KB) To 4730.00 ft (KB) (TVD)** Reference Elevations: 3237.00 ft (KB)
 Total Depth: 4730.00 ft (KB) (TVD) 3232.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8845 Outside
 Press @ Run Depth: 131.24 psig @ 4674.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.15 End Date: 2012.12.15 Last Calib.: 2012.12.15
 Start Time: 07:15:05 End Time: 15:56:00 Time On Btm: 2012.12.15 @ 09:35:30
 Time Off Btm: 2012.12.15 @ 12:46:30

TEST COMMENT: 10 IF - Surface blow built to 6 1/4"
 30 ISI - No return
 60 FF - Surface blow built to BoB in 10 mins.
 90 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2401.93	114.20	Initial Hydro-static
1	19.71	112.79	Open To Flow (1)
10	74.56	116.76	Shut-In(1)
40	1055.64	120.96	End Shut-In(1)
41	92.43	120.58	Open To Flow (2)
100	131.24	125.52	Shut-In(2)
191	1008.08	127.46	End Shut-In(2)
191	2363.67	128.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMCO - 15%G - 30%M - 55%o	0.30
62.00	GMCO - 25%G - 25%M - 50%o	0.30
62.00	GMCO - 20%G - 30%M - 50%o	0.87
62.00	GMCO - 20%G - 25%M - 55%o	0.87
62.00	GMCO - 20%G - 20%M - 60%o	0.87

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum, Inc.
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 Englewood CO 80112
 ATTN: Brad Rine

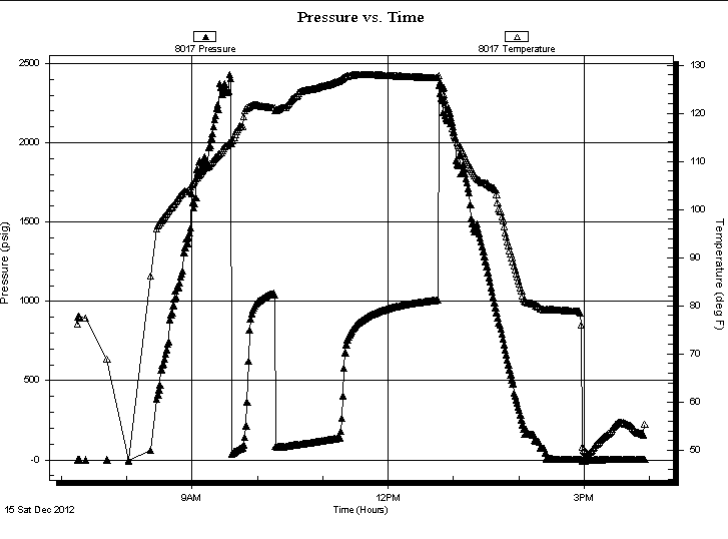
33-10s-34w Thomas,KS
Epard-Seele #1-33
 Job Ticket: 51388 **DST#: 3**
 Test Start: 2012.12.15 @ 07:15:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:35:45
 Time Test Ended: 15:56:00
 Interval: **4673.00 ft (KB) To 4730.00 ft (KB) (TVD)**
 Total Depth: 4730.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Nichols
 Unit No: 64
 Reference Elevations: 3237.00 ft (KB)
 3232.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8017 Outside
 Press @ Run Depth: psig @ 4674.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.15 End Date: 2012.12.15 Last Calib.: 2012.12.15
 Start Time: 07:14:50 End Time: 15:56:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 10 IF - Surface blow built to 6 1/4"
 30 ISI - No return
 60 FF - Surface blow built to BoB in 10 mins.
 90 FSI - No return



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

Recovery		
Length (ft)	Description	Volume (bbl)
62.00	GMCO - 15%G - 30%M - 55%o	0.30
62.00	GMCO - 25%G - 25%M - 50%o	0.30
62.00	GMCO - 20%G - 30%M - 50%o	0.87
62.00	GMCO - 20%G - 25%M - 55%o	0.87
62.00	GMCO - 20%G - 20%M - 60%o	0.87

* 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, Inc.

33-10s-34w Thomas,KS

88 Inerness CIR E unit F104
Englewood CO 80112

Epard-Seele #1-33

Job Ticket: 51388

DST#: 3

ATTN: Brad Rine

Test Start: 2012.12.15 @ 07:15:00

Tool Information

Drill Pipe:	Length: 4546.00 ft	Diameter: 3.80 inches	Volume: 63.77 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 64.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4673.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	85.00 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			4646.00	
Shut In Tool	5.00			4651.00	
Hydraulic tool	5.00			4656.00	
Jars	5.00			4661.00	
Safety Joint	3.00			4664.00	
Packer	5.00			4669.00	28.00 Bottom Of Top Packer
Packer	4.00			4673.00	
Stubb	1.00			4674.00	
Recorder	0.00	8017	Outside	4674.00	
Recorder	0.00	8845	Outside	4674.00	
Perforations	18.00			4692.00	
Blank Spacing	33.00			4725.00	
Bullnose	5.00			4730.00	57.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum, Inc.

33-10s-34w Thomas,KS

88 Inerness CIR E unit F104
Englewood CO 80112

Epard-Seele #1-33

Job Ticket: 51388

DST#: 3

ATTN: Brad Rine

Test Start: 2012.12.15 @ 07:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 8000.00 ppm
Filter Cake: 2.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GMCO - 15%G - 30%M - 55%o	0.305
62.00	GMCO - 25%G - 25%M - 50%o	0.305
62.00	GMCO - 20%G - 30%M - 50%o	0.870
62.00	GMCO - 20%G - 25%M - 55%o	0.870
62.00	GMCO - 20%G - 20%M - 60%o	0.870

Total Length: 310.00 ft Total Volume: 3.220 bbl

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

Laboratory Name: Laboratory Location:

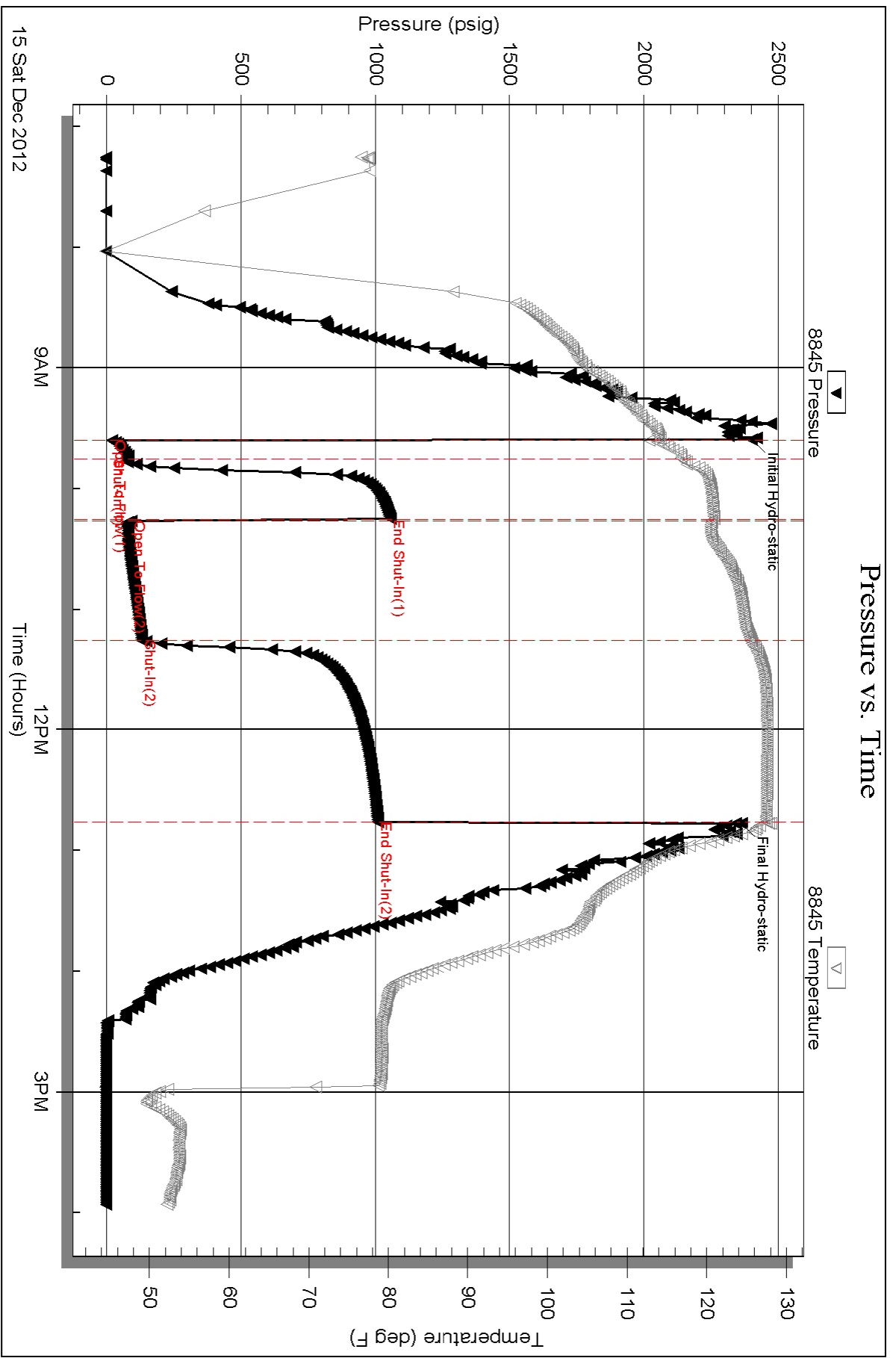
Recovery Comments:

Serial #: 8845

Outside Norstar Petroleum, Inc.

Epard-Seele #1-33

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 51388

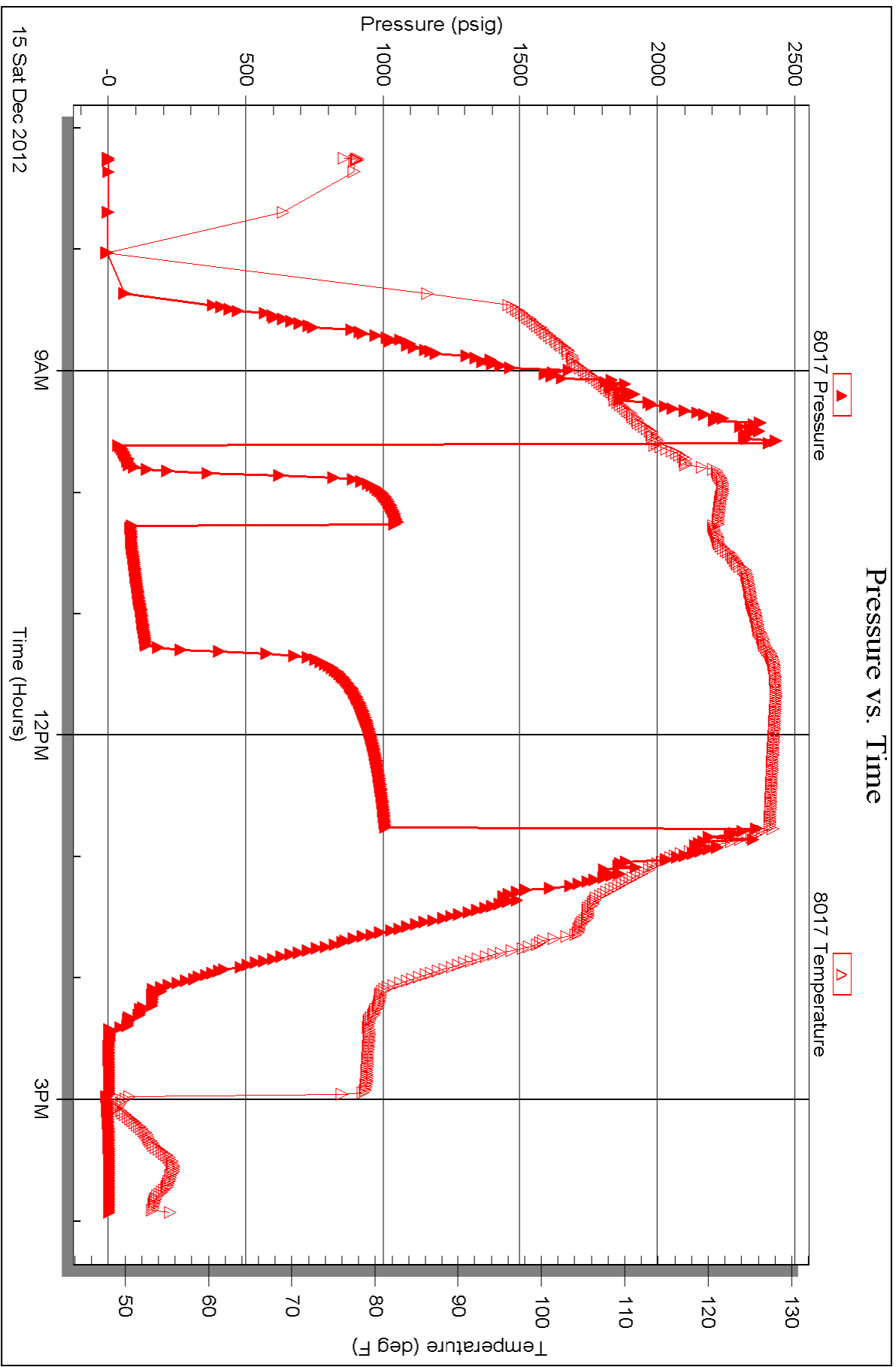
Printed: 2012.12.18 @ 10:14:11

Serial #: 8017

Outside Norstar Petroleum, Inc.

Epard-Seele #1-33

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 51388

Printed: 2012.12.18 @ 10:14:11



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **51386**

Well Name & No. Eyard - Steele #1-33 Test No. 1 Date 12/12/12
 Company Northstar Petroleum, Inc. Elevation 3237 KB 3232 GL
 Address Northstar Petroleum, Inc. 88 Inerness CIR E Unit F104 Englewood CO 80112
 Co. Rep / Geo. Brad Rine Rig WW #4
 Location: Sec. 33 Twp. 10S Rge. 34W Co. Thomas State KS

Interval Tested 4295 - 4375 Zone Tested LKC "H-J"
 Anchor Length 80' Drill Pipe Run 4168 Mud Wt. 9.3
 Top Packer Depth 4290 Drill Collars Run 124 Vis 56
 Bottom Packer Depth 4295 Wt. Pipe Run 0 WL 9.6
 Total Depth 4375 Chlorides 6800 ppm System LCM .5

Blow Description IF - Surface blow built to 1"
ISI - No return
FF - Surface blow started @ 5 mins
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>70'</u>	<u>Mud</u>			<u>100</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

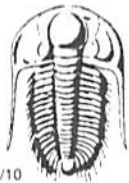
Rec Total 70' BHT 117° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2200</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>18:30</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>21:39</u>
(C) First Final Flow <u>36</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>00:34</u>
(D) Initial Shut-In <u>1239</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>2:49</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>05:15</u>
(F) Second Final Flow <u>65</u>	<input checked="" type="checkbox"/> Mileage <u>130 RT</u> 201.50	Comments
(G) Final Shut-In <u>1241</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2207</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 15 Shale Packer
 Initial Shut-In 30 Extra Packer
 Final Flow 30 Extra Recorder
 Final Shut-In 60 Day Standby
 Accessibility
 Sub Total 1776.50 MP/DST Disc't

Approved By _____ Our Representative Brad Rine

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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **51387**

Well Name & No. Epard - Steele #1-33 Test No. 2 Date 12/13/12
 Company Norstar Petroleum, Inc. Elevation 3237 KB 3232 GL
 Address 88 Inerness CIR E Unit F104 Englewood CO 80112
 Co. Rep / Geo. Brad Rine Rig WW #4
 Location: Sec. 33 Twp. 10S Rge. 34W Co. Thomas State KS

Interval Tested 4376 - 4410 Zone Tested LKC "K"
 Anchor Length 34' Drill Pipe Run 4232 Mud Wt. 9.2
 Top Packer Depth 4371 Drill Collars Run 124 Vis 47
 Bottom Packer Depth 4376 Wt. Pipe Run 0 WL 8.4
 Total Depth 4410 Chlorides 6400 ppm System LCM 1
 Blow Description IF - Surface blow built to 2 1/4"
ISI - No return
FF - Surface blow started @ 1 min built to 7 1/4"
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
50'	Mud	5		95	
62'	GWCM	5	30	65	
62'	GMCW	5	50	45	
62'	GMCW	5	55	40	

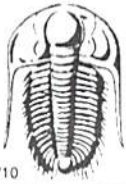
Rec Total 236' BHT 122° Gravity _____ API RW 33 @ 233° F Chlorides 70,000 ppm

(A) Initial Hydrostatic <u>2195</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>12:35 12:35</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>13:29 13:29</u>
(C) First Final Flow <u>50</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>15:50</u>
(D) Initial Shut-In <u>868</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>19:05</u>
(E) Second Initial Flow <u>54</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>21:09</u>
(F) Second Final Flow <u>114</u>	<input checked="" type="checkbox"/> Mileage <u>130 RT</u> 201.50	Comments _____
(G) Final Shut-In <u>865</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2216</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1776.50</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1776.50</u>	

Approved By _____

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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51388

4/10

Well Name & No. Exard - Seele # 1-33 Test No. 3 Date 12/15/12
 Company Norstar Petroleum, Inc Elevation 3237 KB 3232 GL
 Address 88 Inerness CIR E Unit F104 Englewood CO 80112
 Co. Rep / Geo. Brad Rine Rig WW #4
 Location: Sec. 33 Twp. 10S Rge. 34W Co. Thomas State KS

Interval Tested 4673-4730 Zone Tested Johnson
 Anchor Length 57' Drill Pipe Run 4546 Mud Wt. 9.2
 Top Packer Depth 4668 Drill Collars Run 124 Vis 51
 Bottom Packer Depth 4673 Wt. Pipe Run 0 WL 8.8
 Total Depth 4730 Chlorides 8000 ppm System LCM .5
 Blow Description IF - Surface blow built to 64"
ISI - No return
FF - Surface blow built to Bob in 10 mins
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
62'	GMCO	20	60	20	
62'	GMCO	20	55	25	
62'	GMCO	20	50	30	
62'	GMCO	25	50	25	
62'	GMCO	15		30	

Rec Total 310' BHT 128° Gravity — API RW 55 °F Chlorides — ppm

(A) Initial Hydrostatic 2402 Test 1250 T-On Location 05:05
 (B) First Initial Flow 20 Jars 250 T-Started 07:15
 (C) First Final Flow 75 Safety Joint 75 T-Open 09:35
 (D) Initial Shut-In 1056 Circ Sub NC T-Pulled 12:45
 (E) Second Initial Flow 92 Hourly Standby T-Out 15:55
 (F) Second Final Flow 131 Mileage 130 RT 201.50 Comments _____
 (G) Final Shut-In 1008 Sampler _____
 (H) Final Hydrostatic 2364 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 10 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1776.50
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1776.50

Approved By _____ 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.