

DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc**

88 Inverness Cir E Unit F104
Englewood CO 80112-5514

ATTN: Bob Elder

Epard #1-33

33-10-34w Thomas,KS

Start Date: 2012.01.29 @ 17:21:06

End Date: 2012.01.30 @ 00:30:06

Job Ticket #: 44944 DST #: 1

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

Printed: 2012.02.07 @ 12:05:51



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Norstar Petroleum Inc
88 Inverness Cir E Unit F104
Englewood CO 80112-5514
ATTN: Bob Elder

33-10-34w Thomas,KS
Epard #1-33
Job Ticket: 44944 **DST#: 1**
Test Start: 2012.01.29 @ 17:21:06

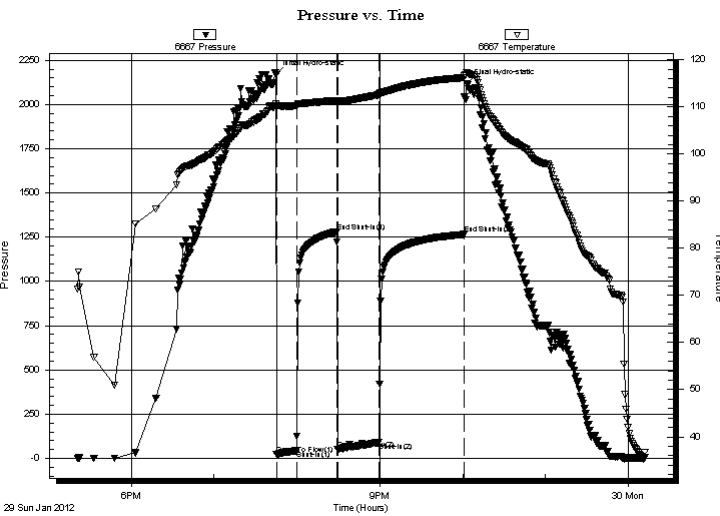
GENERAL INFORMATION:

Formation: **H**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 19:45:06
Time Test Ended: 00:30:06
Interval: **4310.00 ft (KB) To 4344.00 ft (KB) (TVD)**
Total Depth: 4344.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane McBride
Unit No: 55
Reference Elevations: 3264.00 ft (KB)
3253.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6667 Outside

Press @ Run Depth: 89.69 psig @ 4311.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.01.29 End Date: 2012.01.30 Last Calib.: 2012.01.30
Start Time: 17:21:06 End Time: 00:12:06 Time On Btm: 2012.01.29 @ 19:44:51
Time Off Btm: 2012.01.29 @ 22:02:51

TEST COMMENT: 1 3/4" blow
No return
2" blow
No return



PRESSURE SUMMARY

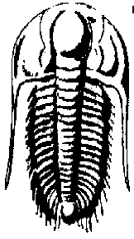
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2168.87	110.61	Initial Hydro-static
1	21.62	110.11	Open To Flow (1)
15	44.27	110.27	Shut-In(1)
44	1280.57	111.41	End Shut-In(1)
45	52.23	111.09	Open To Flow (2)
75	89.69	112.59	Shut-In(2)
137	1266.17	116.23	End Shut-In(2)
138	2116.66	117.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud w/oil spots	0.59

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc

33-10-34w Thomas,KS

88 Inverness Cir E Unit F104
Englewood CO 80112-5514

Epard #1-33

Job Ticket: 44944

DST#: 1

ATTN: Bob Elder

Test Start: 2012.01.29 @ 17:21:06

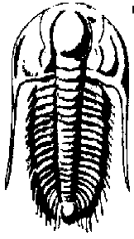
Tool Information

Drill Pipe:	Length: 4057.00 ft	Diameter: 3.80 inches	Volume: 56.91 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: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 58.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4310.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4291.00	
Shut In Tool	5.00			4296.00	
Hydraulic tool	5.00			4301.00	
Packer	5.00			4306.00	20.00 Bottom Of Top Packer
Packer	4.00			4310.00	
Stubb	1.00			4311.00	
Recorder	0.00	6771	Inside	4311.00	
Recorder	0.00	6667	Outside	4311.00	
Perforations	28.00			4339.00	
Bullnose	5.00			4344.00	34.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc

33-10-34w Thomas,KS

88 Inverness Cir E Unit F104
Englewood CO 80112-5514

Epard #1-33

Job Ticket: 44944

DST#: 1

ATTN: Bob Elder

Test Start: 2012.01.29 @ 17:21:06

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	mud w/oil spots	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

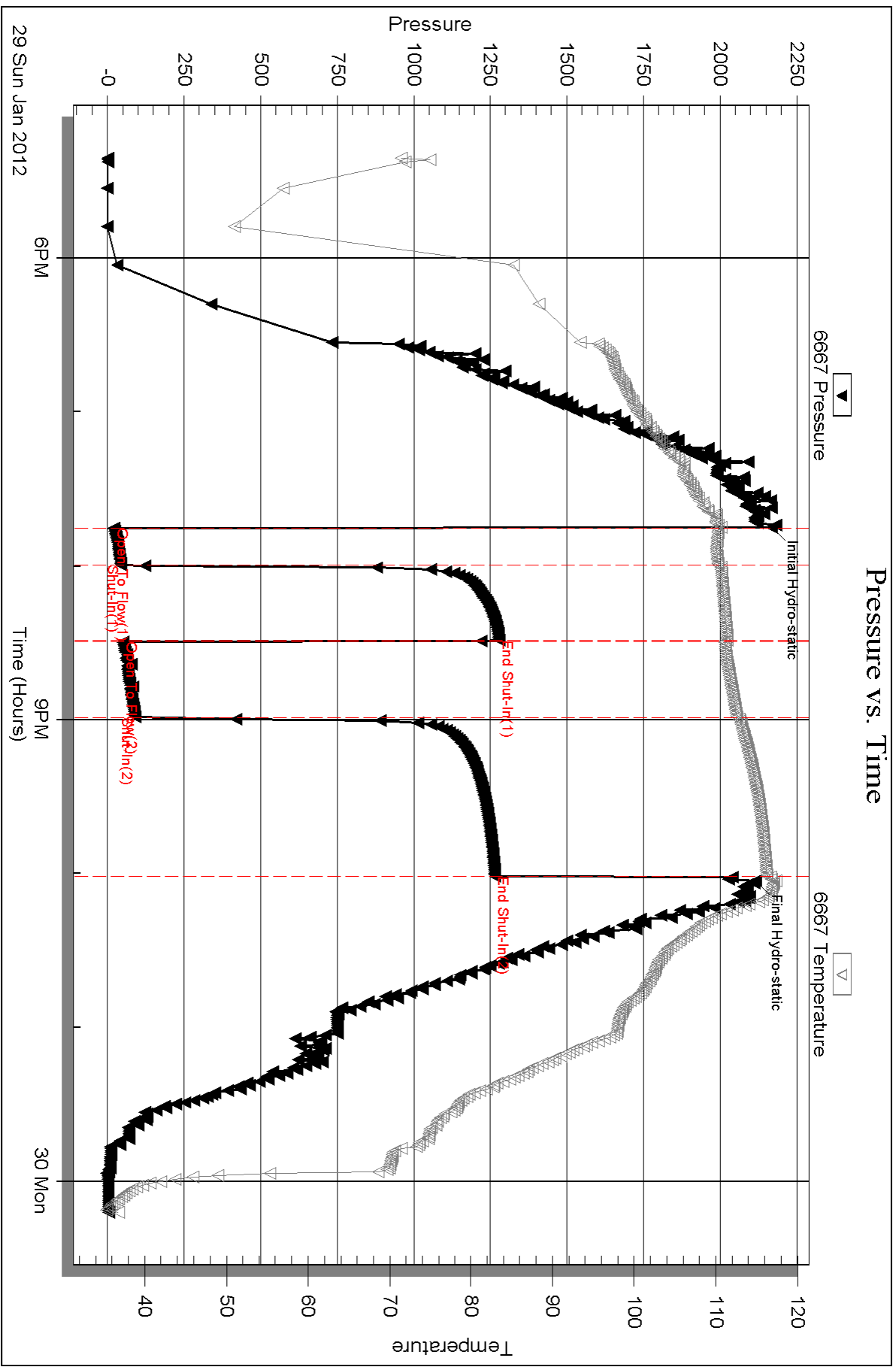
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



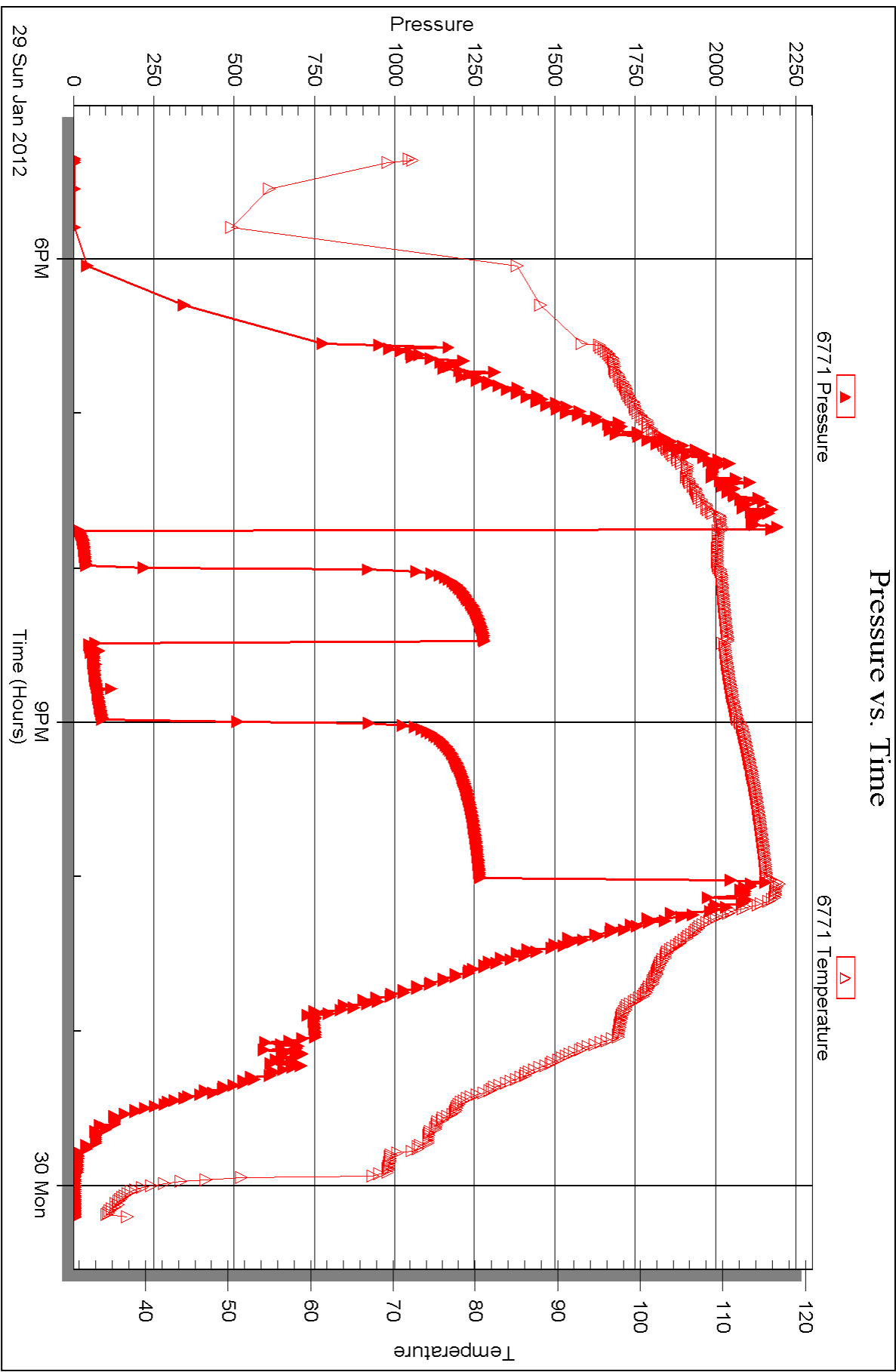
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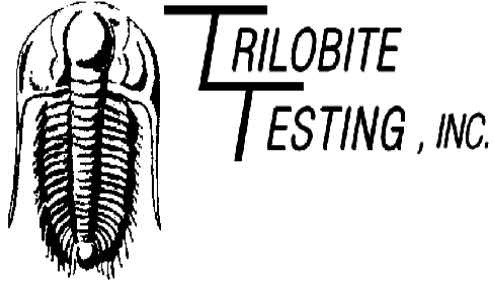
Inside

Norstar Petroleum Inc

Epard #1-33

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc**

88 Inverness Cir E Unit F104
Englewood CO 80112-5514

ATTN: Bob Elder

Epard #1-33

33-10-34w Thomas,KS

Start Date: 2012.01.30 @ 10:11:05

End Date: 2012.01.30 @ 16:58:50

Job Ticket #: 44945 DST #: 2

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

Printed: 2012.02.07 @ 12:04:42



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum Inc
 88 Inverness Cir E Unit F104
 Englewood CO 80112-5514
 ATTN: Bob Elder

33-10-34w Thomas,KS
Epard #1-33
 Job Ticket: 44945 **DST#: 2**
 Test Start: 2012.01.30 @ 10:11:05

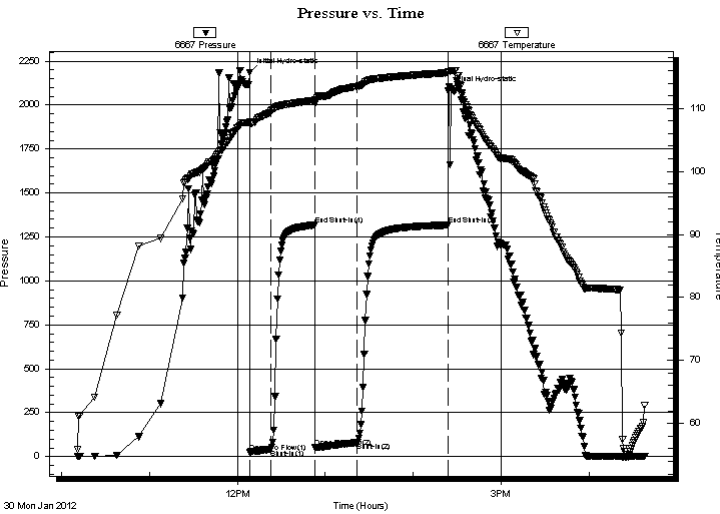
GENERAL INFORMATION:

Formation: **I-J**
 Deviated: **No** Whipstock: **0.00 ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: **12:08:50** Tester: **Shane McBride**
 Time Test Ended: **16:58:50** Unit No: **55**
Interval: 4350.00 ft (KB) To 4406.00 ft (KB) (TVD) Reference Elevations: **3264.00 ft (KB)**
 Total Depth: **4406.00 ft (KB) (TVD)** **3253.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **11.00 ft**

Serial #: 6667 Outside

Press @ Run Depth: **79.49 psig @ 4351.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.01.30** End Date: **2012.01.30** Last Calib.: **2012.01.30**
 Start Time: **10:11:05** End Time: **16:37:50** Time On Btm: **2012.01.30 @ 12:08:35**
 Time Off Btm: **2012.01.30 @ 14:24:05**

TEST COMMENT: **1 3/4" in blow**
No return
2 3/4" in blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.45	107.85	Initial Hydro-static
1	26.32	107.48	Open To Flow (1)
15	43.59	109.61	Shut-In(1)
45	1318.14	111.29	End Shut-In(1)
45	51.14	110.84	Open To Flow (2)
74	79.49	113.49	Shut-In(2)
135	1317.53	115.65	End Shut-In(2)
136	2083.86	115.83	Final Hydro-static

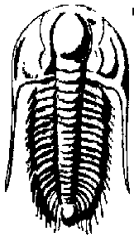
Recovery

Length (ft)	Description	Volume (bbl)
30.00	o c m 35%o 65%m	0.15
120.00	o c m 20%o 80%m	0.59

* 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 Inverness Cir E Unit F104
Englewood CO 80112-5514
ATTN: Bob Elder

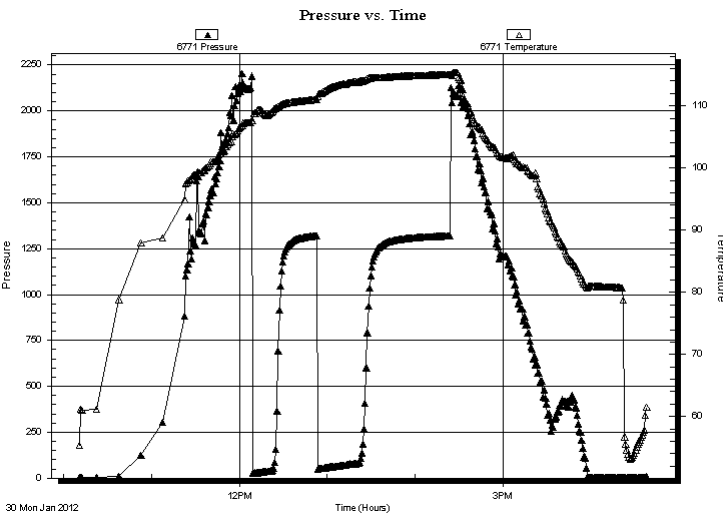
33-10-34w Thomas,KS
Epard #1-33
Job Ticket: 44945 **DST#: 2**
Test Start: 2012.01.30 @ 10:11:05

GENERAL INFORMATION:

Formation: **I-J**
Deviated: **No** Whipstock: **0.00 ft (KB)**
Time Tool Opened: **12:08:50**
Time Test Ended: **16:58:50**
Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Shane McBride**
Unit No: **55**
Interval: **4350.00 ft (KB) To 4406.00 ft (KB) (TVD)**
Reference Elevations: **3264.00 ft (KB)**
3253.00 ft (CF)
Total Depth: **4406.00 ft (KB) (TVD)**
KB to GR/CF: **11.00 ft**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Serial #: 6771 Inside
Press @RunDepth: **psig @ 4351.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2012.01.30** End Date: **2012.01.30** Last Calib.: **2012.01.30**
Start Time: **10:11:05** End Time: **16:37:50** Time On Btm:
Time Off Btm:

TEST COMMENT: 1 3/4" in blow
No return
2 3/4" in blow
No return



PRESSURE SUMMARY

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

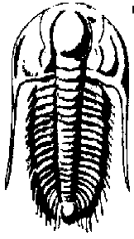
Recovery

Length (ft)	Description	Volume (bbl)
30.00	o c m 35%o 65%m	0.15
120.00	o c m 20%o 80%m	0.59

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc
88 Inverness Cir E Unit F104
Englewood CO 80112-5514
ATTN: Bob Elder

33-10-34w Thomas,KS
Epard #1-33
Job Ticket: 44945 **DST#: 2**
Test Start: 2012.01.30 @ 10:11:05

Tool Information

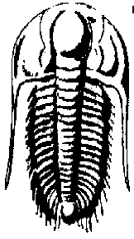
Drill Pipe:	Length: 4113.00 ft	Diameter: 3.80 inches	Volume: 57.69 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 58.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4350.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	76.00 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			4331.00	
Shut In Tool	5.00			4336.00	
Hydraulic tool	5.00			4341.00	
Packer	5.00			4346.00	20.00 Bottom Of Top Packer
Packer	4.00			4350.00	
Stubb	1.00			4351.00	
Recorder	0.00	6771	Inside	4351.00	
Recorder	0.00	6667	Outside	4351.00	
Perforations	16.00			4367.00	
Change Over Sub	1.00			4368.00	
Drill Pipe	32.00			4400.00	
Change Over Sub	1.00			4401.00	
Bullnose	5.00			4406.00	56.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc

33-10-34w Thomas,KS

88 Inverness Cir E Unit F104
Englewood CO 80112-5514

Epard #1-33

Job Ticket: 44945

DST#: 2

ATTN: Bob Elder

Test Start: 2012.01.30 @ 10:11:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	o c m 35%o 65%m	0.148
120.00	o c m 20%o 80%m	0.590

Total Length: 150.00 ft

Total Volume: 0.738 bbl

Num Fluid Samples: 0

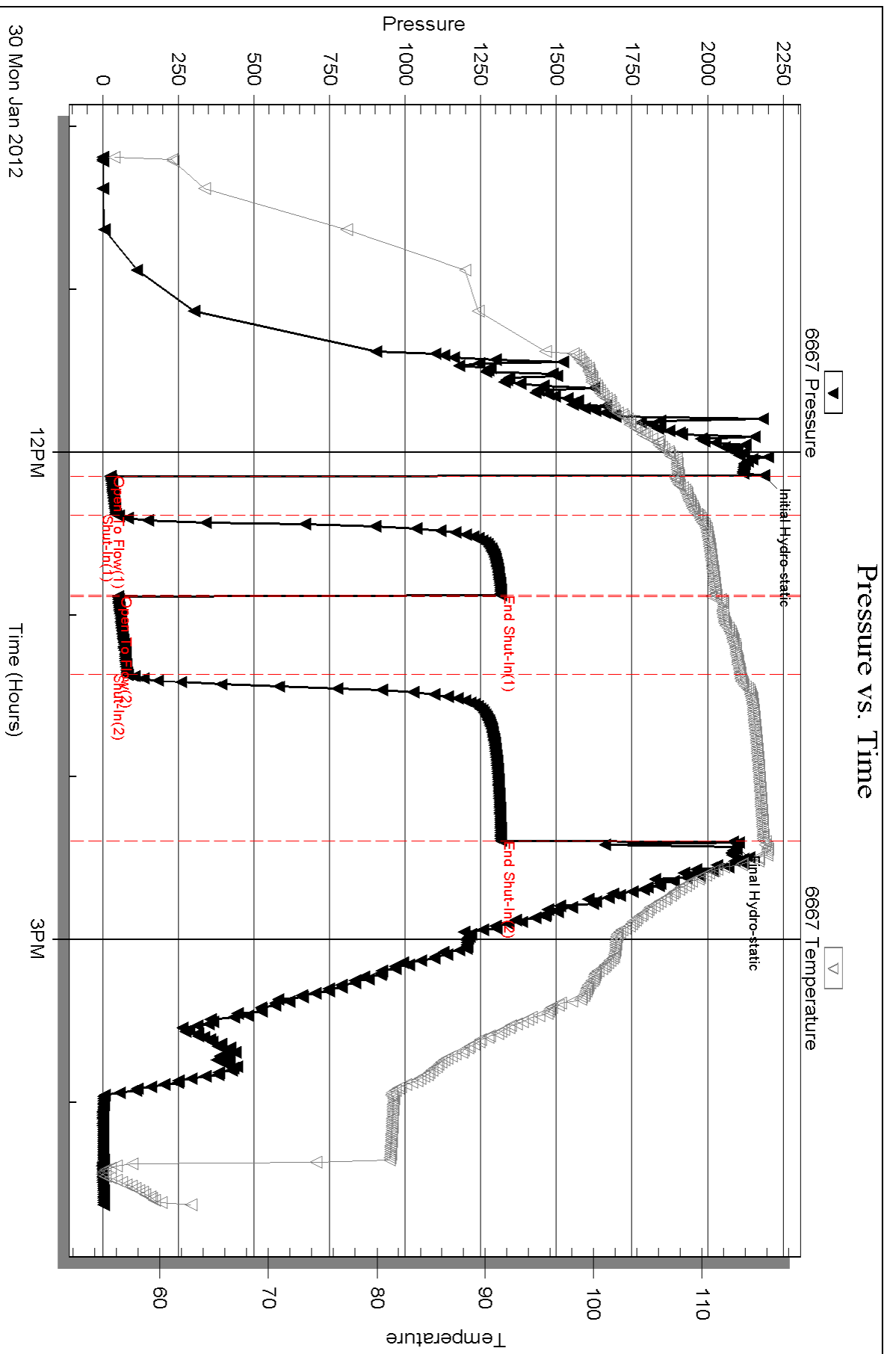
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



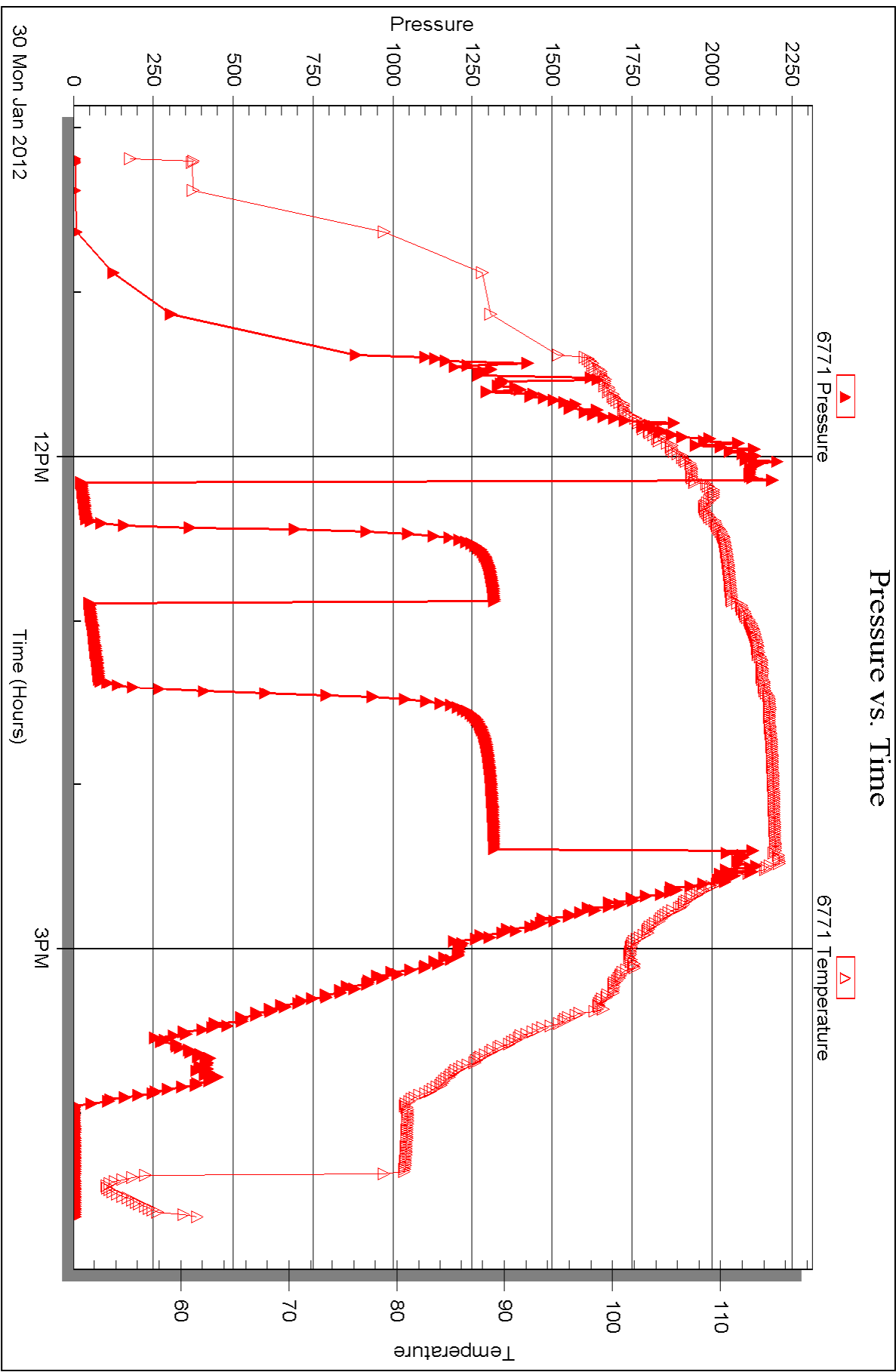
Serial #: 6771

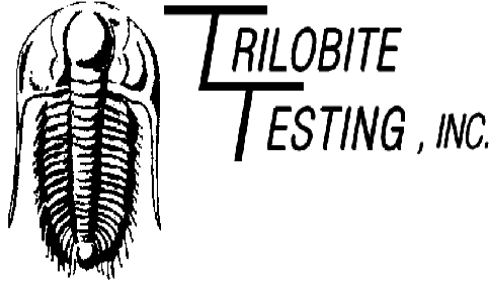
Inside

Norstar Petroleum Inc

Epard #1-33

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc**

88 Inverness Cir E Unit F104
Englewood CO 80112-5514

ATTN: Bob Elder

Epard #1-33

33-10-34w Thomas,KS

Start Date: 2012.01.31 @ 00:30:44

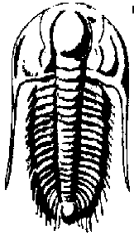
End Date: 2012.01.31 @ 07:25:29

Job Ticket #: 44946 DST #: 3

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

Printed: 2012.02.07 @ 12:03:37

Norstar Petroleum Inc
33-10-34w Thomas,KS
Epard #1-33
DST # 3
K
2012.01.31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum Inc
 88 Inverness Cir E Unit F104
 Englewood CO 80112-5514
 ATTN: Bob Elder

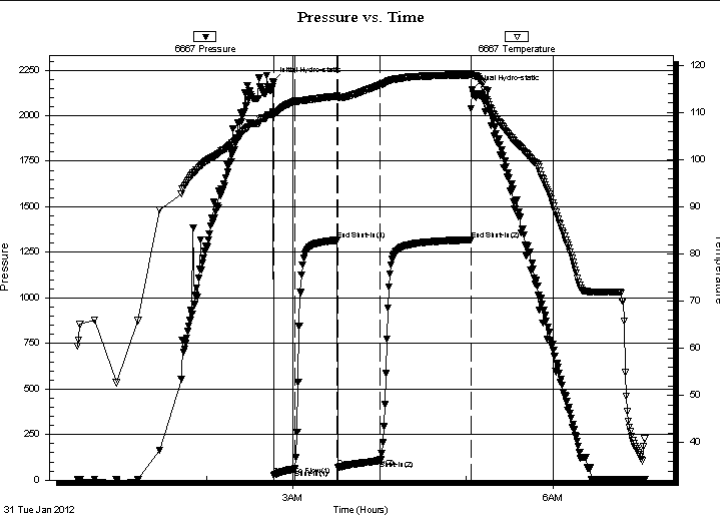
33-10-34w Thomas,KS
Epard #1-33
 Job Ticket: 44946 **DST#: 3**
 Test Start: 2012.01.31 @ 00:30:44

GENERAL INFORMATION:

Formation: **K**
 Deviated: **No** Whipstock: **0.00 ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: **02:46:44** Tester: **Shane McBride**
 Time Test Ended: **07:25:29** Unit No: **55**
Interval: 4395.00 ft (KB) To 4430.00 ft (KB) (TVD) Reference Elevations: **3264.00 ft (KB)**
 Total Depth: **4430.00 ft (KB) (TVD)** **3253.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **11.00 ft**

Serial #: 6667 **Outside**
 Press @ Run Depth: **108.45 psig @ 4396.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.01.31** End Date: **2012.01.31** Last Calib.: **2012.01.31**
 Start Time: **00:30:44** End Time: **07:03:29** Time On Btm: **2012.01.31 @ 02:45:59**
 Time Off Btm: **2012.01.31 @ 05:03:59**

TEST COMMENT: 2" blow
 No return
 2 3/4" blow
 No return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2187.34	109.93	Initial Hydro-static
1	27.12	109.59	Open To Flow (1)
15	60.55	112.37	Shut-In(1)
45	1316.62	113.43	End Shut-In(1)
45	70.13	113.13	Open To Flow (2)
75	108.45	115.77	Shut-In(2)
138	1319.10	117.96	End Shut-In(2)
138	2141.40	117.84	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
20.00	free oil 100%o	0.10
40.00	o c m 25%o 75%o	0.20
120.00	s o c m 5%o 95%m	0.59

* 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
88 Inverness Cir E Unit F104
Englewood CO 80112-5514
ATTN: Bob Elder

33-10-34w Thomas,KS
Epard #1-33
Job Ticket: 44946 **DST#: 3**
Test Start: 2012.01.31 @ 00:30:44

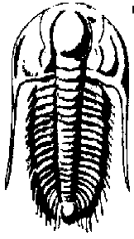
Tool Information

Drill Pipe:	Length: 4147.00 ft	Diameter: 3.80 inches	Volume: 58.17 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: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 59.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4395.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	55.00 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			4376.00	
Shut In Tool	5.00			4381.00	
Hydraulic tool	5.00			4386.00	
Packer	5.00			4391.00	20.00 Bottom Of Top Packer
Packer	4.00			4395.00	
Stubb	1.00			4396.00	
Recorder	0.00	6771	Inside	4396.00	
Recorder	0.00	6667	Outside	4396.00	
Perforations	29.00			4425.00	
Bullnose	5.00			4430.00	35.00 Bottom Packers & Anchor
Total Tool Length:	55.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc

33-10-34w Thomas,KS

88 Inverness Cir E Unit F104
Englewood CO 80112-5514

Epard #1-33

Job Ticket: 44946

DST#: 3

ATTN: Bob Elder

Test Start: 2012.01.31 @ 00:30:44

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	free oil 100%o	0.098
40.00	o c m 25%o 75%o	0.197
120.00	s o c m 5%o 95%m	0.590

Total Length: 180.00 ft

Total Volume: 0.885 bbl

Num Fluid Samples: 0

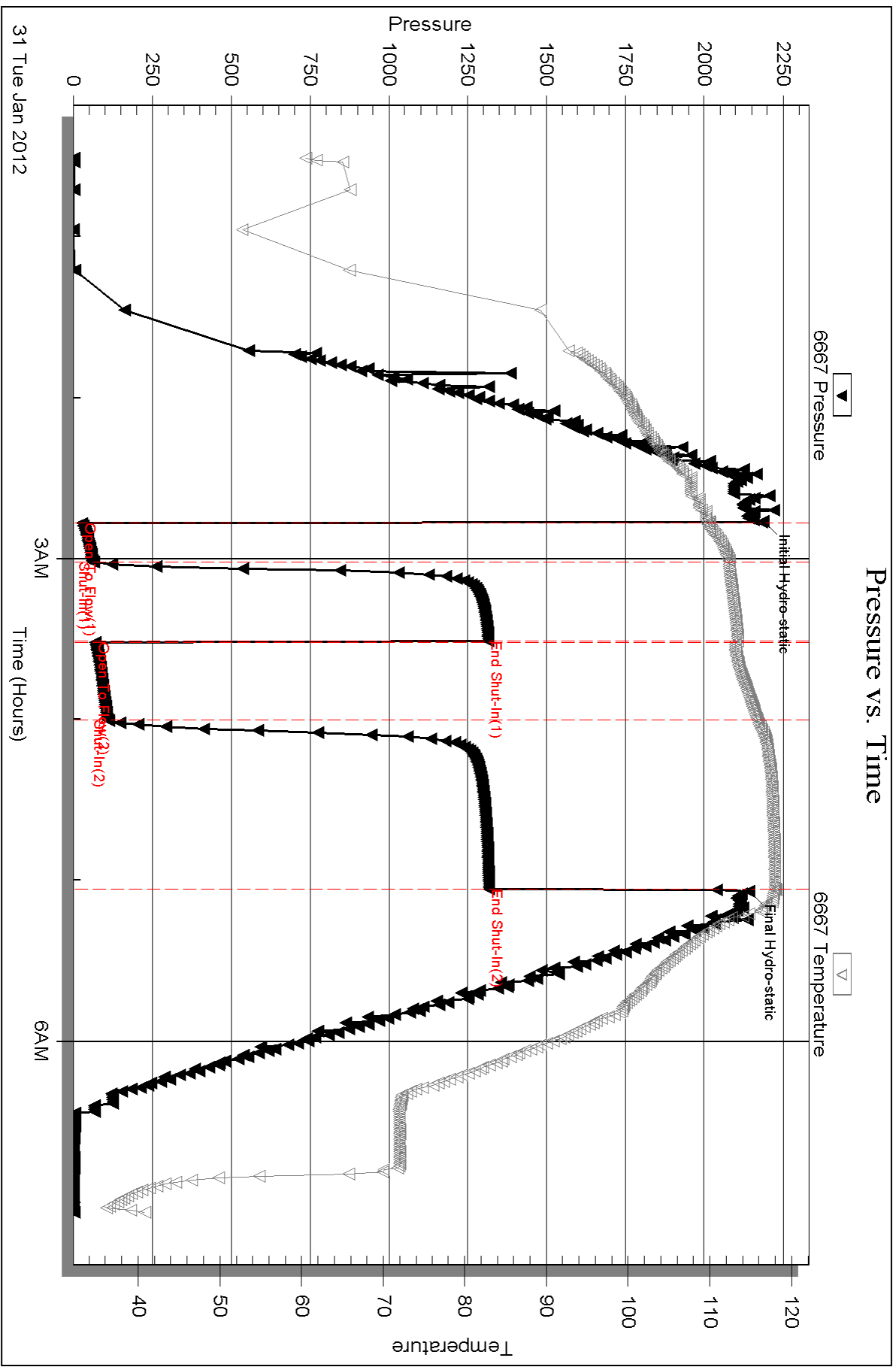
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



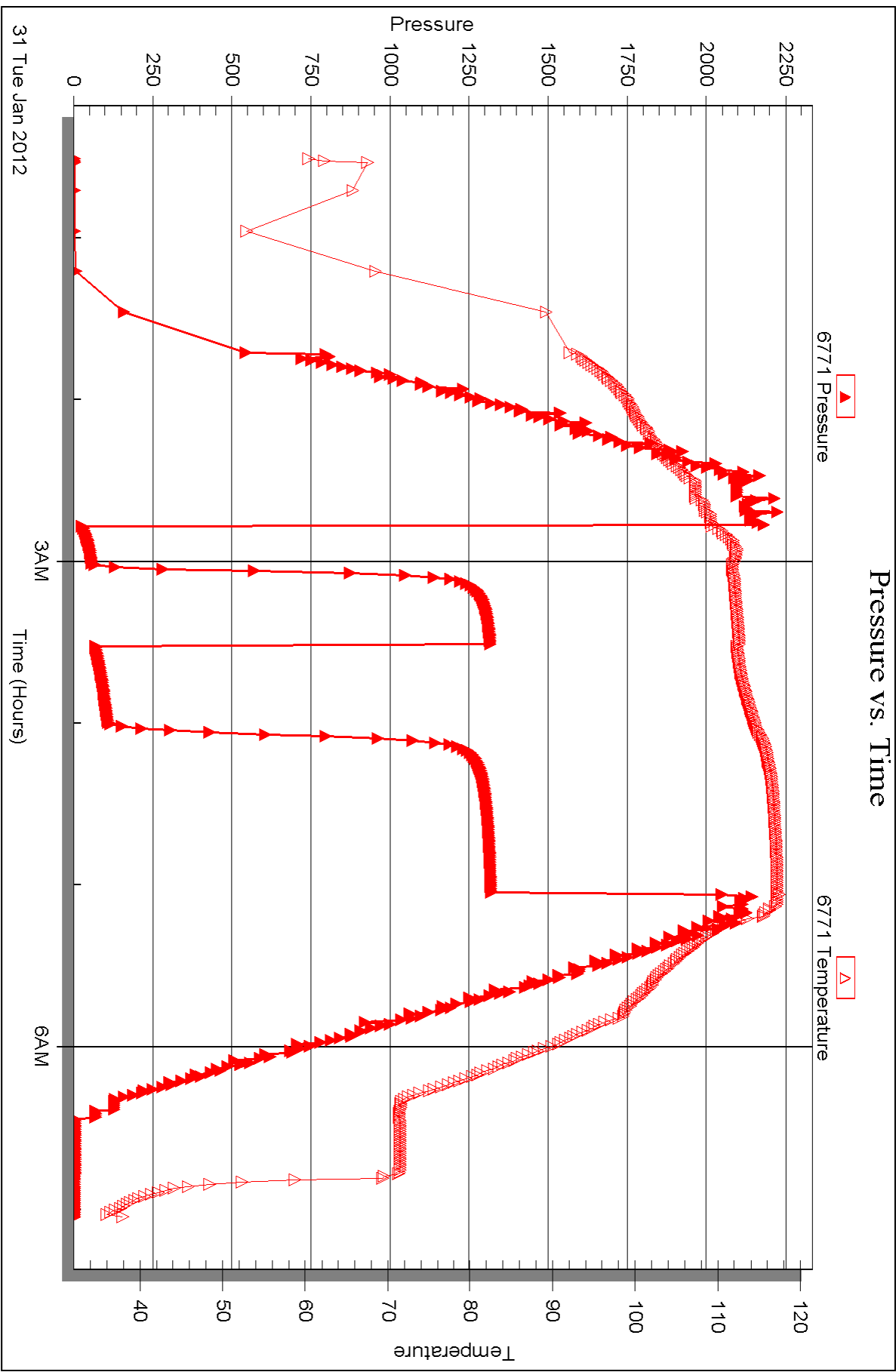
Serial #: 6771

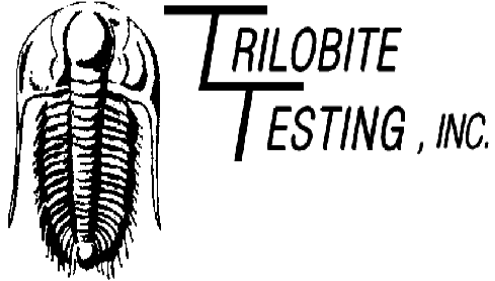
Inside

Norstar Petroleum Inc

Epard #1-33

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc**

88 Inverness Cir E Unit F104
Englewood CO 80112-5514

ATTN: Bob Elder

Epard #1-33

33-10-34w Thomas,KS

Start Date: 2012.02.01 @ 10:40:23

End Date: 2012.02.01 @ 19:10:53

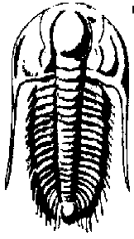
Job Ticket #: 44947 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.07 @ 12:02:31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum Inc
 88 Inverness Cir E Unit F104
 Englewood CO 80112-5514
 ATTN: Bob Elder

33-10-34w Thomas,KS
Epard #1-33
 Job Ticket: 44947 **DST#: 4**
 Test Start: 2012.02.01 @ 10:40:23

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 12:50:08
 Time Test Ended: 19:10:53
 Interval: **4694.00 ft (KB) To 4747.00 ft (KB) (TVD)**
 Total Depth: 4747.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 3264.00 ft (KB)
 3253.00 ft (CF)
 KB to GR/CF: 11.00 ft

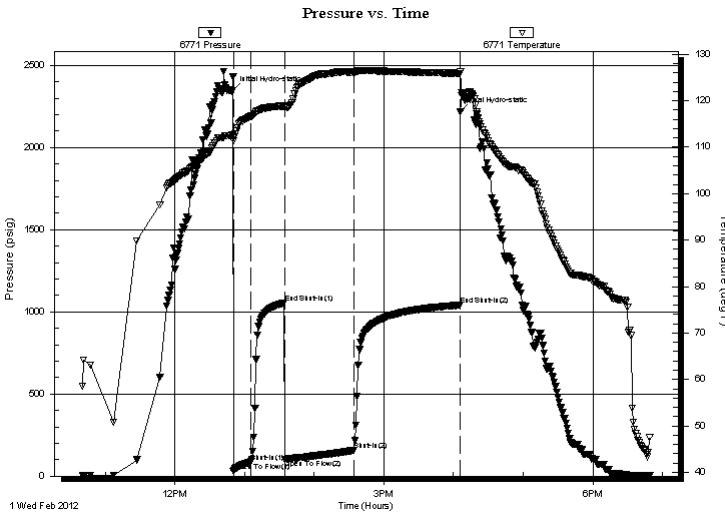
Serial #: 6771

Inside

Press @ Run Depth: 156.69 psig @ 4695.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.01 End Date: 2012.02.01 Last Calib.: 2012.02.01
 Start Time: 10:40:23 End Time: 18:48:53 Time On Btm: 2012.02.01 @ 12:49:23
 Time Off Btm: 2012.02.01 @ 16:05:53

TEST COMMENT: 5 1/4" blow
 1/2" return
 B.O.B. in 19 min.
 6" return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2348.99	112.55	Initial Hydro-static
1	29.26	111.41	Open To Flow (1)
16	86.97	116.65	Shut-In(1)
45	1054.50	118.89	End Shut-In(1)
46	103.84	118.57	Open To Flow (2)
105	156.69	126.10	Shut-In(2)
196	1041.15	125.88	End Shut-In(2)
197	2218.67	126.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mc g o 5g 35m 60o	0.30
60.00	mc g o 5g 15m 80o	0.30
247.00	c g o 10g 90o	2.35
0.00	355' weak gas in pipe	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 Inc
88 Inverness Cir E Unit F104
Englewood CO 80112-5514
ATTN: Bob Elder

33-10-34w Thomas,KS
Epard #1-33
Job Ticket: 44947 **DST#: 4**
Test Start: 2012.02.01 @ 10:40:23

Tool Information

Drill Pipe:	Length: 4464.00 ft	Diameter: 3.80 inches	Volume: 62.62 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: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 98000.00 lb
			<u>Total Volume: 63.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4694.00 ft			Final 75000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			4675.00	
Shut In Tool	5.00			4680.00	
Hydraulic tool	5.00			4685.00	
Packer	5.00			4690.00	20.00 Bottom Of Top Packer
Packer	4.00			4694.00	
Stubb	1.00			4695.00	
Recorder	0.00	6771	Inside	4695.00	
Recorder	0.00	6667	Outside	4695.00	
Perforations	13.00			4708.00	
Change Over Sub	1.00			4709.00	
Drill Pipe	32.00			4741.00	
Change Over Sub	1.00			4742.00	
Bullnose	5.00			4747.00	53.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc

33-10-34w Thomas,KS

88 Inverness Cir E Unit F104
Englewood CO 80112-5514

Epard #1-33

Job Ticket: 44947

DST#: 4

ATTN: Bob Elder

Test Start: 2012.02.01 @ 10:40:23

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

18 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	m c g o 5g 35m 60o	0.295
60.00	m c g o 5g 15m 80o	0.295
247.00	c g o 10g 90o	2.353
0.00	355' weak gas in pipe	0.000

Total Length: 367.00 ft

Total Volume: 2.943 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6771

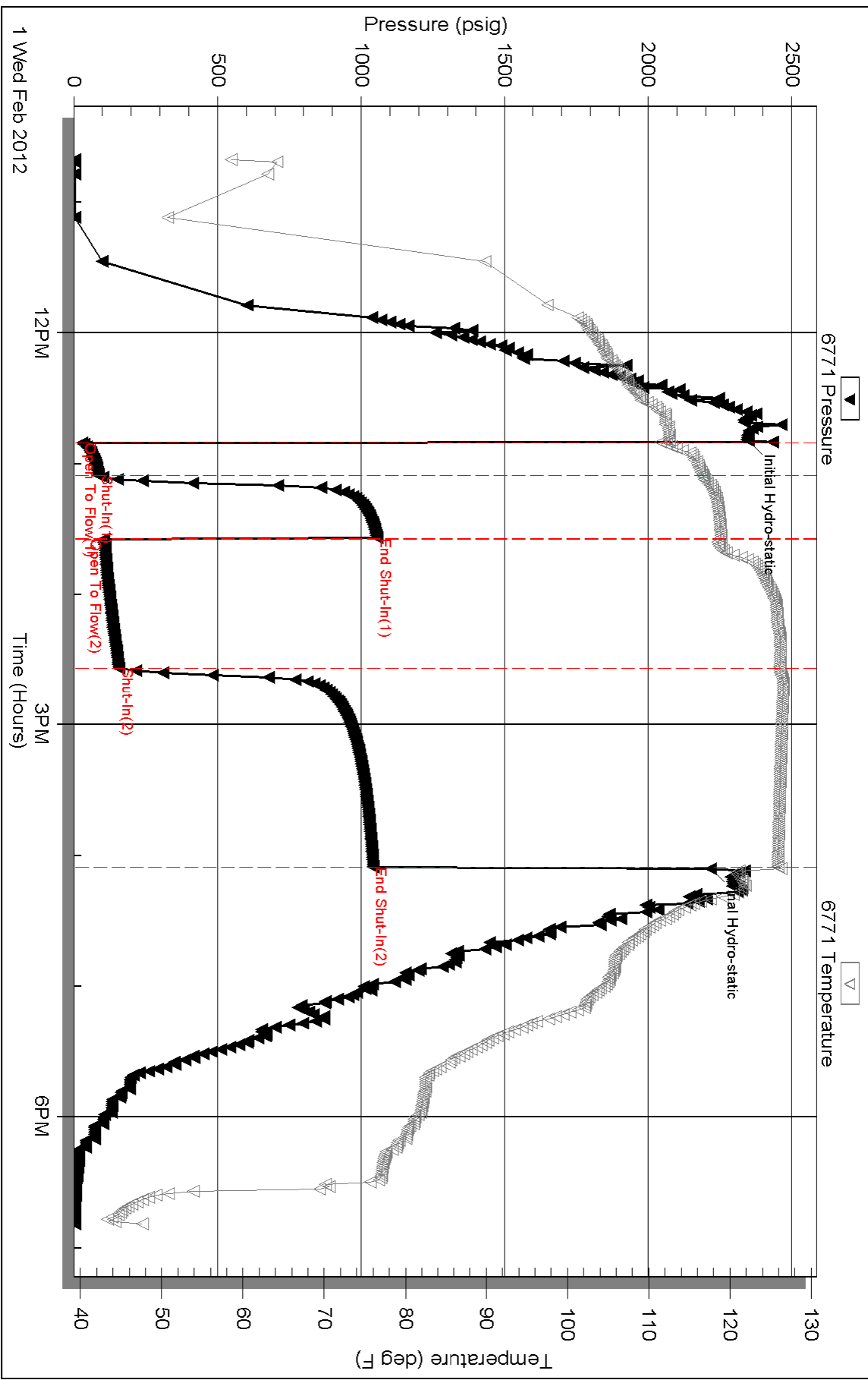
Inside

Norstar Petroleum Inc

Epad #1-33

DST Test Number: 4

Pressure vs. Time

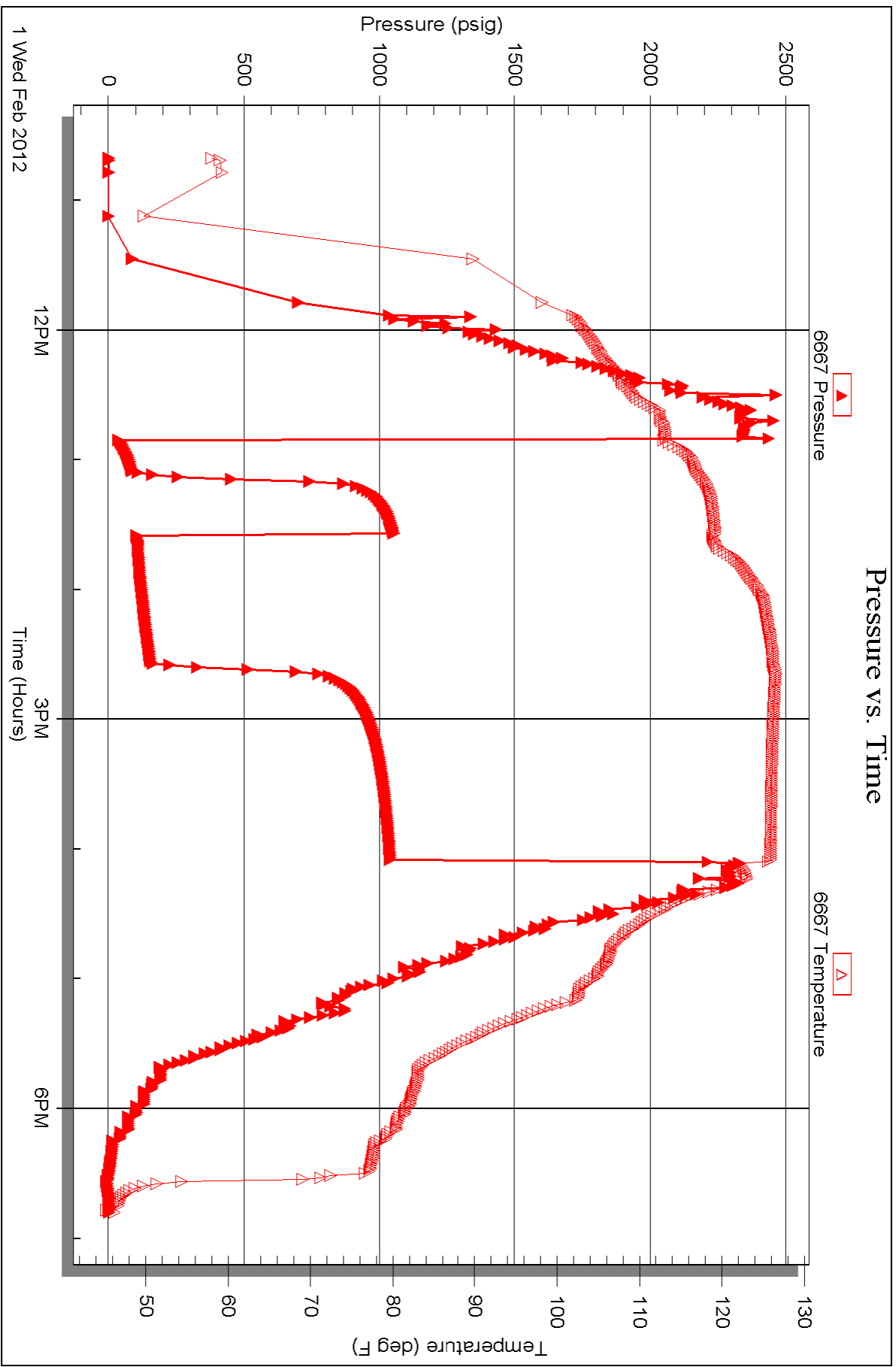


Serial #: 6667

Outside Norstar Petroleum Inc

Epard #1-33

DST Test Number: 4





TRILOBITE TESTING INC.

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Test Ticket

NO. 44944

4/10

BY: _____

Well Name & No. Lepard #1-33 Test No. #1 Date 1/29/12

Company Norstar Petroleum Inc Elevation 32109 KB 3253 GL

Address Englewood Colo 80112

Co. Rep / Geo. Bob Elder Rig Mudwin #2

Location: Sec. 33 Twp. 10 Rge. 34w Co. Thomas State Ks

Interval Tested 4310 4344 Zone Tested H

Anchor Length 34 Drill Pipe Run 4059' Mud Wt. 9.3

Top Packer Depth 4305 Drill Collars Run 242' XH Vis 59

Bottom Packer Depth 4310 Wt. Pipe Run --- WL 7.2

Total Depth 4344 Chlorides _____ ppm System LCM #2

Blow Description 1 3/4" blow
No return
2" blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>120'</u>	<u>Mud w/ oil spots</u>	<u>spots</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 Total 120' BHT 117° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2168 Test 1225' T-On Location 16:20

(B) First Initial Flow 21 Jars _____ T-Started 17:07

(C) First Final Flow 44 Safety Joint _____ T-Open 19:45

(D) Initial Shut-In 1280 Circ Sub N/C T-Pulled 22:00

(E) Second Initial Flow 32 Hourly Standby _____ T-Out 00:30

(F) Second Final Flow 89 Mileage 130 RT 182' Comments _____

(G) Final Shut-In 1266 Sampler _____

(H) Final Hydrostatic 2116 Straddle _____ Ruined Shale Packer _____

Shale Packer _____ Ruined Packer _____

Extra Packer _____ Extra Copies _____

Initial Open 15 Extra Recorder _____ Sub Total 0

Initial Shut-In 30 Day Standby _____ Total 1407'

Final Flow 30 Accessibility _____ MP/DST Disc't _____

Final Shut-In 600 Sub Total 1407'

Approved By Rory Elor Our Representative [Signature]

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FEB 06 2012

Test Ticket

NO. 44945

4/10

Well Name & No. Esperanza #1-33 BY: _____ Test No. #2 Date 1/30/12
 Company Neistar Petroleum Inc. Elevation 3264 KB 3253 GL
 Address Englewood Colo 80112
 Co. Rep / Geo. Bob Elder Rig Mudwin #2
 Location: Sec. 33 Twp. 10 Rge. 34w Co. Thomas State Ks

Interval Tested 4350 4400 Zone Tested F-5
 Anchor Length _____ Drill Pipe Run 4113' Mud Wt. 9.2
 Top Packer Depth 4345 Drill Collars Run 242' AM Vis 60
 Bottom Packer Depth 4350 Wt. Pipe Run _____ WL 8.0
 Total Depth 4400 Chlorides 4600 ppm System LCM #2

Blow Description 1 3/4" in blow
No return
2 3/4" in blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>ocm</u>	<u>35</u>	<u>0</u>	<u>65</u>	<u>0</u>
<u>120</u>	<u>ocm</u>	<u>20</u>	<u>0</u>	<u>80</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150' BHT 116° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2185 Test 1225' T-On Location 09:40
 (B) First Initial Flow 26 Jars T-Started 10:10
 (C) First Final Flow 43 Safety Joint T-Open 12:08
 (D) Initial Shut-In 1318 Circ Sub N/C T-Pulled 14:23
 (E) Second Initial Flow 51 Hourly Standby T-Out 16:58
 (F) Second Final Flow 79 Mileage 130 RT 182' Comments _____
 (G) Final Shut-In 1317 Sampler _____
 (H) Final Hydrostatic 2083 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1407'
 Accessibility _____ MP/DST Disc't _____

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

Sub Total 1407'

Approved By Roy Glen Our Representative _____

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RECEIVED
FEB 06 2012

Test Ticket

NO. 44946

4/10

Well Name & No. Edard #1-33 Test No. #3 Date 1/31/12
 Company Alustar Petroleum Inc Elevation 3269 KB 3253 GL
 Address Englewood Colo 80112
 Co. Rep / Geo. Bob Elder Rig Mudlog #2
 Location: Sec. 33 Twp. 10 Rge. 34W Co. Thomas State Ks

Interval Tested 4395 4430 Zone Tested K
 Anchor Length 35 Drill Pipe Run 4447' Mud Wt. 9.0
 Top Packer Depth 4390 Drill Collars Run 242' XH Vis 50
 Bottom Packer Depth 4395 Wt. Pipe Run --- WL 6.4
 Total Depth 4430 Chlorides 3500 ppm System LCM #2

Blow Description 2" in blow
No return
2 3/4" in blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20'</u>	<u>free oil</u>	<u>71</u>	<u>100</u>		
<u>40'</u>	<u>OCM</u>	<u>71</u>	<u>25</u>		<u>75</u>
<u>120'</u>	<u>SOCM</u>		<u>5</u>		<u>95</u>

Rec Total 180' BHT 118° Gravity 30 API RW --- @ --- ° F Chlorides --- ppm

(A) Initial Hydrostatic 2187 Test 1225' T-On Location B:45
 (B) First Initial Flow 27 Jars T-Started 00:30
 (C) First Final Flow 60 Safety Joint T-Open 02:45
 (D) Initial Shut-In 1.366 Circ Sub N/C T-Pulled 05:00
 (E) Second Initial Flow 70 Hourly Standby T-Out 07:25
 (F) Second Final Flow 108 Mileage 130 RT 182' Comments _____
 (G) Final Shut-In 1.319 Sampler _____
 (H) Final Hydrostatic 2141 Straddle Ruined Shale Packer _____
 Shale Packer Ruined Packer _____

Initial Open 15 Extra Packer Extra Copies _____
 Initial Shut-In 30 Extra Recorder Sub Total 0
 Final Flow 30 Day Standby Total 1407'
 Final Shut-In 60 Accessibility MP/DST Disc't _____
 Sub Total 1407'

Approved By Bob Elder Our Representative [Signature]

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RECEIVED
FEB 06 2012

Test Ticket

NO. 44947

4/10

BY: _____

Well Name & No. Edward #1-33 Test No. #1 Date 2/1/12

Company Wolston Petroleum, Inc Elevation 3264 KB 3253 GL

Address Englewood Colo 80112

Co. Rep / Geor. Bob Elder Rig Wolston #2

Location: Sec. 33 Twp. 10 Rge. 34W Co. Thomas State KS

Interval Tested 4094 4747 Zone Tested Johnson

Anchor Length 53 Drill Pipe Run 4464 Mud Wt. 9.3

Top Packer Depth 4089 Drill Collars Run 242' KH Vis 61

Bottom Packer Depth 4094 Wt. Pipe Run — WL 7.2

Total Depth 4747 Chlorides 1.000 ppm System LCM #2

Blow Description 5 1/4" in blow
1/2" in Return
B.O.B. in 19 min
6" in Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>247</u>	<u>Feet of C90</u>	<u>10</u>	<u>90</u>		
<u>60</u>	<u>Feet of MC90</u>	<u>5</u>	<u>80</u>	<u>15</u>	<u>15</u>
<u>60</u>	<u>Feet of MC90</u>	<u>5</u>	<u>60</u>	<u>35</u>	<u>35</u>
	<u>Feet of (355' wear gas pipe)</u>				
	<u>Feet of</u>				

Rec Total 367' BHT 127° Gravity 18 API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 2348 Test 1225 T-On Location 09:50

(B) First Initial Flow 29 Jars _____ T-Started 10:40

(C) First Final Flow 86 Safety Joint _____ T-Open 12:48

(D) Initial Shut-In 1054 Circ Sub N/C T-Pulled 16:03

(E) Second Initial Flow 103 Hourly Standby _____ T-Out 19:10

(F) Second Final Flow 150 Mileage 130 RT 182 Comments _____

(G) Final Shut-In 1041 Sampler _____

(H) Final Hydrostatic 2218 Straddle _____

Ruined Shale Packer

Ruined Packer x2 640

Extra Copies _____

Initial Open 13

Initial Shut-In 30

Final Flow 60

Final Shut-In 90

Extra Packer _____

Extra Recorder _____

Day Standby _____

Accessibility _____

Sub Total 1407

Sub Total 640

Total 2047

MP/DST Disc't _____

Approved By Rory Elor Our Representative _____

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