



DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc.**

88 Inverness Cir E, Unit F104
Englewood, CO 80112

ATTN: Bob Elder

HD Koons #1-36

36-10s-35w Thomas,KS

Start Date: 2013.01.30 @ 10:02:00

End Date: 2013.01.30 @ 19:02:45

Job Ticket #: 46877 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.04 @ 16:08:24

Norstar Petroleum Inc.

36-10s-35w Thomas,KS

HD Koons #1-36

DST # 1

Lansing "I-J-K"

2013.01.30



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

36-10s-35w Thomas,KS
HD Koons #1-36
Job Ticket: 46877 **DST#: 1**
Test Start: 2013.01.30 @ 10:02:00

GENERAL INFORMATION:

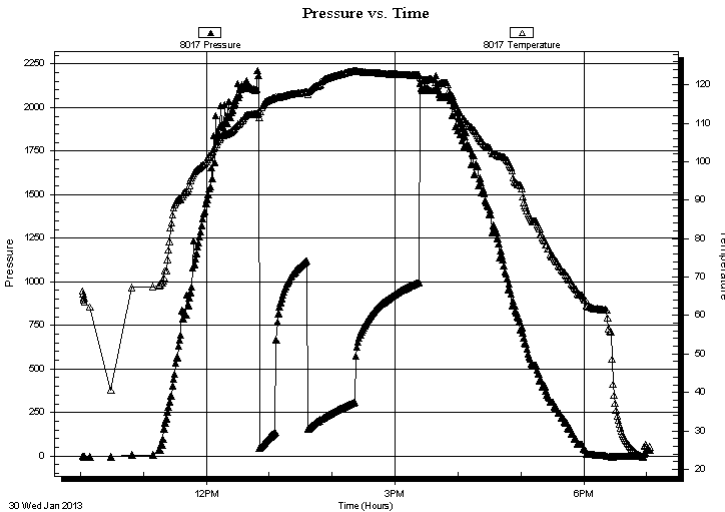
Formation: Lansing "I-J-K"			Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock:	ft (KB)		Tester: Sam Esparza
Time Tool Opened: 12:50:45			Unit No: 64
Time Test Ended: 19:02:45			
Interval: 4354.00 ft (KB) To 4436.00 ft (KB) (TVD)		Reference Elevations: 3280.00 ft (KB)	
Total Depth: 4436.00 ft (KB) (TVD)		3272.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 8.00 ft	

Serial #: 8017 Outside

Press @ RunDepth: psig @ 4355.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2013.01.30 End Date: 2013.01.30	Last Calib.: 2013.01.30
Start Time: 10:02:05 End Time: 19:03:00	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF: BOB @ 7 min.
IS: No return.
FF: BOB @ 10 min.
FS: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MCW 20m 80w (Oil Spots)	2.52
300.00	WCM 40w 60m (Oil Spots)	4.21
140.00	Mud 100m	1.96

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc.

36-10s-35w Thomas,KS

88 Inverness Cir E, Unit F104
Englewood, CO 80112

HD Koons #1-36

Job Ticket: 46877

DST#: 1

ATTN: Bob Elder

Test Start: 2013.01.30 @ 10:02:00

Tool Information

Drill Pipe:	Length: 4346.00 ft	Diameter: 3.80 inches	Volume: 60.96 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4354.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	110.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4327.00	
Shut In Tool	5.00			4332.00	
Hydraulic tool	5.00			4337.00	
Jars	5.00			4342.00	
Safety Joint	3.00			4345.00	
Packer	5.00			4350.00	28.00 Bottom Of Top Packer
Packer	4.00			4354.00	
Stubb	1.00			4355.00	
Recorder	0.00	8017	Outside	4355.00	
Recorder	0.00	8845	Outside	4355.00	
Perforations	11.00			4366.00	
Change Over Sub	1.00			4367.00	
Drill Pipe	63.00			4430.00	
Change Over Sub	1.00			4431.00	
Bullnose	5.00			4436.00	82.00 Bottom Packers & Anchor

Total Tool Length: 110.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc.

36-10s-35w Thomas,KS

88 Inverness Cir E, Unit F104
Englewood, CO 80112

HD Koons #1-36

Job Ticket: 46877

DST#: 1

ATTN: Bob Elder

Test Start: 2013.01.30 @ 10:02:00

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:

69000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	MCW 20m 80w (Oil Spots)	2.525
300.00	WCM 40w 60m (Oil Spots)	4.208
140.00	Mud 100m	1.964

Total Length: 620.00 ft Total Volume: 8.697 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

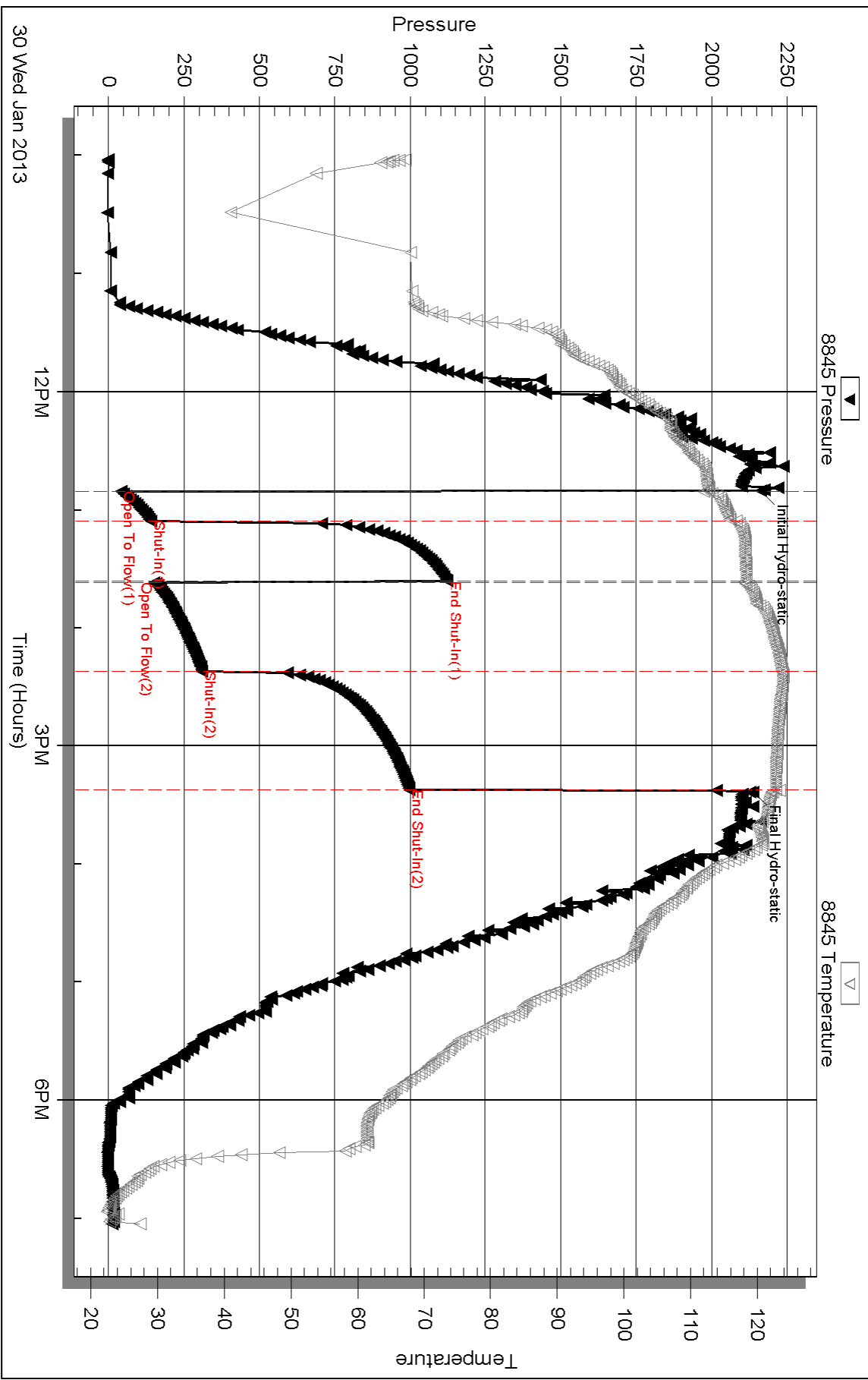
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .237 @ 32 degrees= 69,000 ppm

Pressure vs. Time

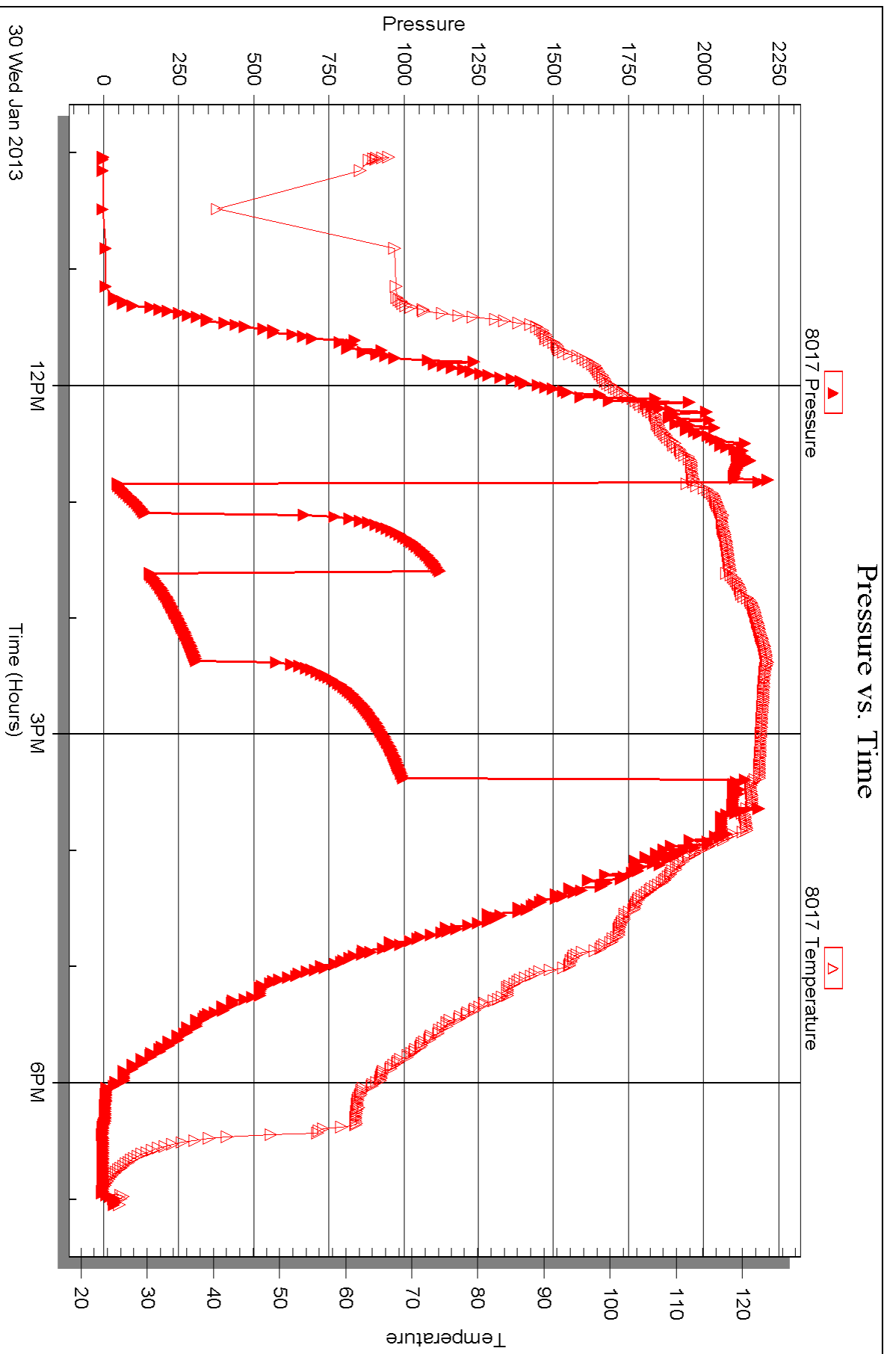


Serial #: 8017

Outside Norstar Petroleum Inc.

H/D Koons #1-36

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 46877

Printed: 2013.02.04 @ 16:08:27



DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc.**

88 Inverness Cir E, Unit F104
Englewood, CO 80112

ATTN: Bob Elder

HD Koons #1-36

36-10s-35w Thomas,KS

Start Date: 2013.02.01 @ 01:19:00

End Date: 2013.02.01 @ 10:20:15

Job Ticket #: 46878 DST #: 2

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

Printed: 2013.02.04 @ 16:07:46



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc.

36-10s-35w Thomas,KS

88 Inverness Cir E, Unit F104
Englewood, CO 80112

HD Koons #1-36

Job Ticket: 46878

DST#: 2

ATTN: Bob Elder

Test Start: 2013.02.01 @ 01:19:00

Tool Information

Drill Pipe:	Length: 4690.00 ft	Diameter: 3.80 inches	Volume: 65.79 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 65.79 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4706.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	58.00 ft				
Tool Length:	86.00 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			4679.00	
Shut In Tool	5.00			4684.00	
Hydraulic tool	5.00			4689.00	
Jars	5.00			4694.00	
Safety Joint	3.00			4697.00	
Packer	5.00			4702.00	28.00 Bottom Of Top Packer
Packer	4.00			4706.00	
Stubb	1.00			4707.00	
Recorder	0.00	8017	Outside	4707.00	
Recorder	0.00	8845	Outside	4707.00	
Perforations	19.00			4726.00	
Change Over Sub	1.00			4727.00	
Drill Pipe	31.00			4758.00	
Change Over Sub	1.00			4759.00	
Bullnose	5.00			4764.00	58.00 Bottom Packers & Anchor

Total Tool Length: 86.00



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FLUID SUMMARY

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36-10s-35w Thomas,KS

88 Inverness Cir E, Unit F104
Englewood, CO 80112

HD Koons #1-36

Job Ticket: 46878

DST#: 2

ATTN: Bob Elder

Test Start: 2013.02.01 @ 01:19:00

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Mud 100m (Oil Spots)	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

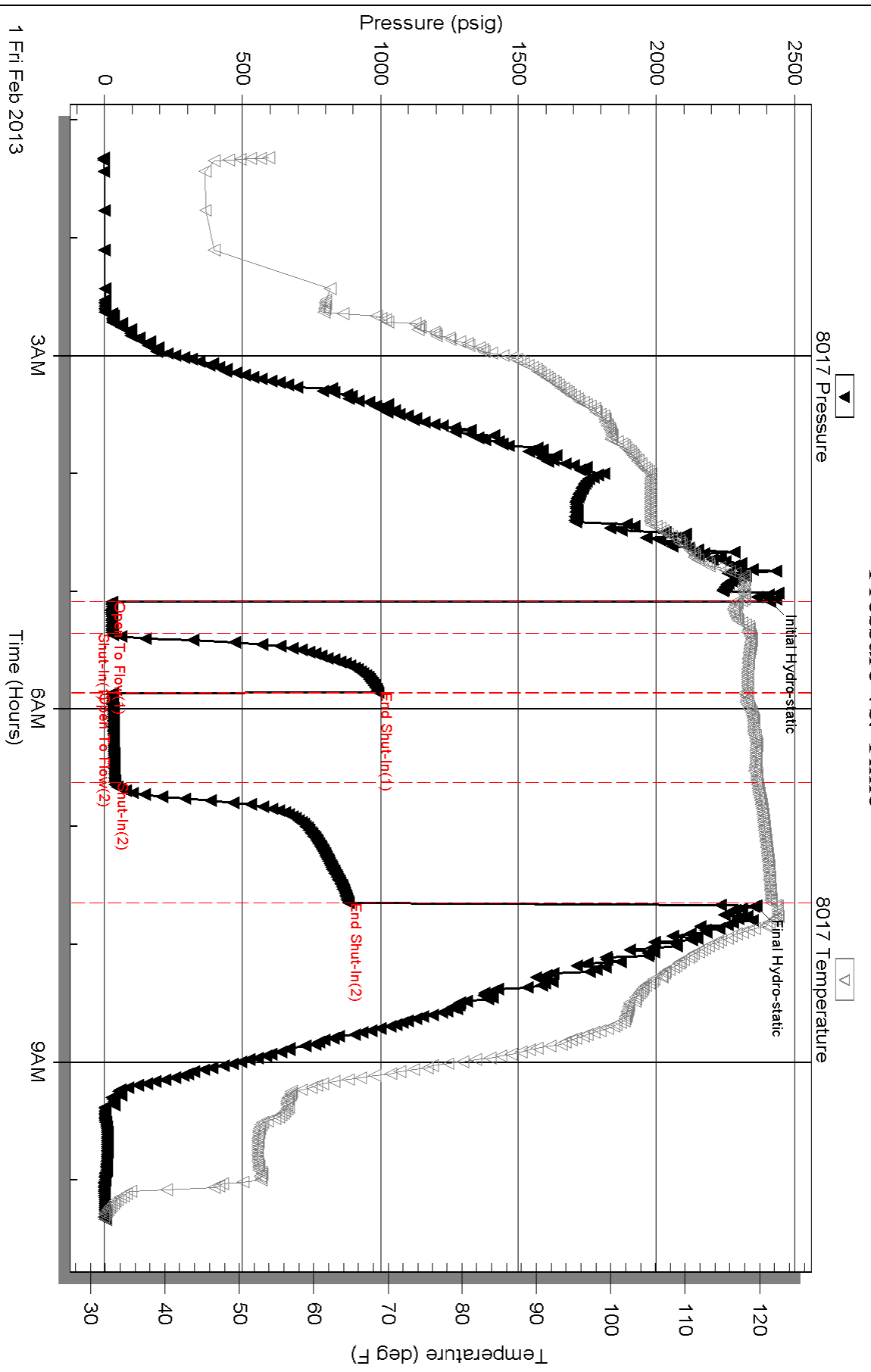
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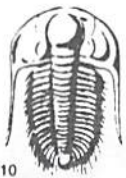
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46877

4/10

Well Name & No. HD Koons #1-36 Test No. 1 Date 1/30/13
 Company Norstar Petroleum Inc. Elevation 3280 KB 3272 GL
 Address 88 Inverness Cir E, Unit F104 Englewood, CO 80112
 Co. Rep / Geo. Bob Elder Rig Maverick #108
 Location: Sec. 36 Twp. 10S Rge. 35W Co. Thomas State KS

Interval Tested 4354-4436 Zone Tested Lansing "I-J-K"
 Anchor Length 82' Drill Pipe Run 4346 Mud Wt. 9.2
 Top Packer Depth 4350 Drill Collars Run Ø Vis 54
 Bottom Packer Depth 4354 Wt. Pipe Run Ø WL 9.6
 Total Depth 4436 Chlorides 5000 ppm System LCM 2
 Blow Description BoB @ 7 min.
No return.
BoB @ 10 min.
No return.

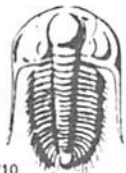
Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>Mud</u>			<u>100</u>	
<u>300</u>	<u>WCM (oil spots)</u>			<u>40</u>	<u>60</u>
<u>180</u>	<u>MCW (oil spots)</u>			<u>80</u>	<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 620 BHT 123 Gravity — API RW 237 @ 32 °F Chlorides 69,000 ppm

(A) Initial Hydrostatic <u>2163</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>7:50</u>
(B) First Initial Flow <u>42</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:02</u>
(C) First Final Flow <u>141</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:51</u>
(D) Initial Shut-In <u>1124</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>15:23</u>
(E) Second Initial Flow <u>152</u>	<input checked="" type="checkbox"/> Hourly Standby <u>X2</u> 1h 100	T-Out <u>19:03</u>
(F) Second Final Flow <u>309</u>	<input checked="" type="checkbox"/> Mileage <u>134 R/T</u> 207.70	Comments <u>projected time out 9:00</u>
(G) Final Shut-In <u>997</u>	<input type="checkbox"/> Sampler	<u>Actual time out 10:00. Did</u>
(H) Final Hydrostatic <u>2138</u>	<input type="checkbox"/> Straddle	<u>not start back in hole until 11:15</u>
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1857.70</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1857.70</u>	

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. 46878

4/10

Well Name & No. HD Koons #1-36 Test No. 2 Date 1/31/13
 Company Norstar Petroleum Inc. Elevation 3280 KB 3272 GL
 Address 88 Inverness Cir E, Unit F104 Englewood, CO 80112
 Co. Rep / Geo. Bob Elder Rig Maverick #108
 Location: Sec. 36 Twp. 10 S Rge. 35W Co. Thomas State KS

Interval Tested 4706 - 4764 Zone Tested Johnson
 Anchor Length 58' Drill Pipe Run 4690 Mud Wt. 9.1
 Top Packer Depth 4702 Drill Collars Run 0 Vis 46
 Bottom Packer Depth 4706 Wt. Pipe Run 0 WL 8.8
 Total Depth 4764 Chlorides 7,200 ppm System LCM 2
 Blow Description 3 1/4" blow.
No return.
4" blow.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Mud (oil 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	Feet of	%gas	%oil	%water	%mud

Rec Total 40 BHT 122 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>242</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>23:45</u>
(B) First Initial Flow	<u>26</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>1:19</u>
(C) First Final Flow	<u>28</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>5:05</u>
(D) Initial Shut-In	<u>991</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>7:38</u>
(E) Second Initial Flow	<u>30</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>10:20</u>
(F) Second Final Flow	<u>37</u>	<input checked="" type="checkbox"/> Mileage	<u>134 R/T</u> 207.70	Comments	<u>Loaded tools</u>
(G) Final Shut-In	<u>882</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2361</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
Initial Open	<u>15</u>	<input type="checkbox"/> Shale Packer		<input checked="" type="checkbox"/> Ruined Packer	<u>320</u>
Initial Shut-In	<u>30</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>45</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>158.33+320</u>
Final Shut-In	<u>60</u>	<input checked="" type="checkbox"/> Day Standby	<u>1d 4.75h</u>	Total	<u>2261.03</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1782.70</u>		

Approved By Randy Elder Our Representative [Signature]

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