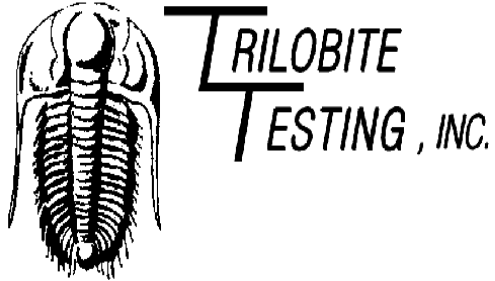


Form	ACO1 - Well Completion
Operator	Norstar Petroleum, Inc.
Well Name	DOWN-WALD UNIT 1-1
Doc ID	1393620

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	221	Common	160	2% gel, 3% cc



DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum**

88 Inverness Cir E Unit F104
Englewood, CO 80112

ATTN: Aaron Young

Down-Wald Unit #1-1

1-19s-27w Lane,KS

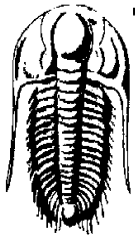
Start Date: 2018.02.15 @ 02:27:21

End Date: 2018.02.15 @ 11:35:21

Job Ticket #: 64298 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.02.20 @ 14:46:41



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum
88 Inverness Cir E Unit F104
Englewood, CO 80112
ATTN: Aaron Young

1-19s-27w Lane, KS

Down-Wald Unit #1-1

Job Ticket: 64298

DST#: 1

Test Start: 2018.02.15 @ 02:27:21

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:51:21

Time Test Ended: 11:35:21

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4458.00 ft (KB) To 4508.00 ft (KB) (TVD)

Total Depth: 4508.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2647.00 ft (KB)

2640.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8166 Outside

Press@RunDepth: 22.82 psig @ 4463.00 ft (KB)

Start Date: 2018.02.15

End Date:

2018.02.15

Start Time: 02:27:26

End Time:

11:35:21

Capacity: 8000.00 psig

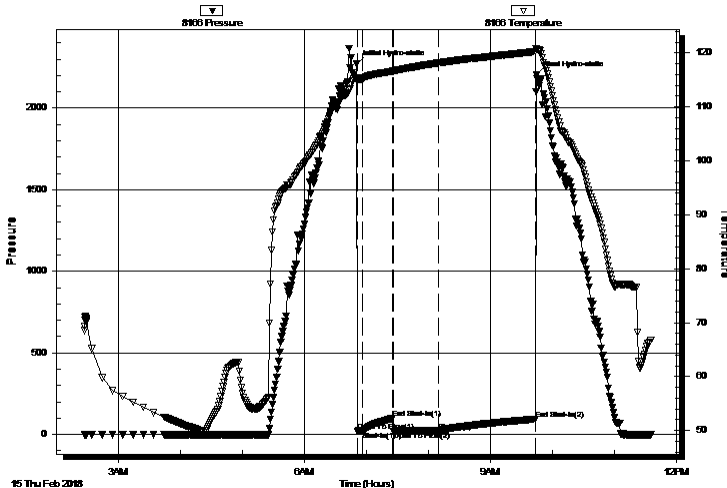
Last Calib.: 2018.02.15

Time On Btm: 2018.02.15 @ 06:50:21

Time Off Btm: 2018.02.15 @ 09:44:51

TEST COMMENT: IF: 1/4" blow built to 1"
IS: No return.
FF: 1/2" blow built to 4 1/2"
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

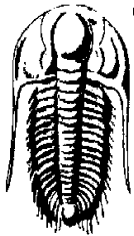
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2268.82	115.41	Initial Hydro-static
1	19.28	114.99	Open To Flow (1)
6	21.58	115.18	Shut-In(1)
35	98.71	116.59	End Shut-In(1)
36	20.13	116.62	Open To Flow (2)
80	22.82	118.15	Shut-In(2)
173	93.97	120.23	End Shut-In(2)
175	2201.42	120.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 10%o 90% m	0.15
0.00	155 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum
88 Inverness Cir E Unit F104
Englewood, CO 80112
ATTN: Aaron Young

1-19s-27w Lane, KS

Down-Wald Unit #1-1

Job Ticket: 64298

DST#: 1

Test Start: 2018.02.15 @ 02:27:21

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:51:21

Time Test Ended: 11:35:21

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4458.00 ft (KB) To 4508.00 ft (KB) (TVD)

Total Depth: 4508.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2647.00 ft (KB)

2640.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6651 Inside

Press@RunDepth: psig @ 4463.00 ft (KB)

Start Date: 2018.02.15

End Date:

2018.02.15

Capacity: 8000.00 psig

Last Calib.:

2018.02.15

Start Time: 02:27:57

End Time:

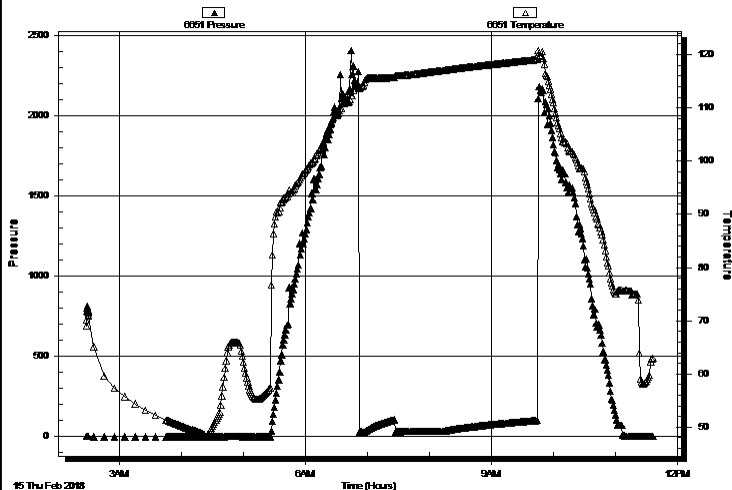
11:35:52

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 1"
IS: No return.
FF: 1/2" blow built to 4 1/2"
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

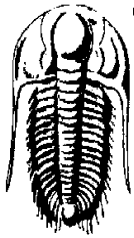
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 10%o 90% m	0.15
0.00	155 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum

1-19s-27w Lane,KS

88 Inverness Cir E Unit F104
Englewood, CO 80112

Down-Wald Unit #1-1

Job Ticket: 64298

DST#: 1

ATTN: Aaron Young

Test Start: 2018.02.15 @ 02:27:21

Tool Information

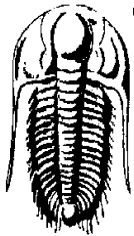
Drill Pipe:	Length:	4344.00 ft	Diameter:	3.80 inches	Volume:	60.93 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length:	121.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	61.53 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		30.00 ft					String Weight: Initial	60000.00 lb
Depth to Top Packer:		4458.00 ft					Final	60000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		54.00 ft						
Tool Length:		77.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Stubb	1.00			4436.00		
Shut In Tool	5.00			4441.00		
Hydraulic tool	5.00			4446.00		
Jars	5.00			4451.00		
Safety Joint	2.00			4453.00		
Packer	5.00			4458.00	23.00	Bottom Of Top Packer
Packer - Shale	4.00			4462.00		
Stubb	1.00			4463.00		
Recorder	0.00	6651	Inside	4463.00		
Recorder	0.00	8166	Outside	4463.00		
Perforations	11.00			4474.00		
Change Over Sub	1.00			4475.00		
Drill Pipe	31.00			4506.00		
Change Over Sub	1.00			4507.00		
Bullnose	5.00			4512.00	54.00	Anchor Tool

Total Tool Length: 77.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum

1-19s-27w Lane, KS

88 Inverness Cir E Unit F104
Englewood, CO 80112

Down-Wald Unit #1-1

Job Ticket: 64298

DST#: 1

ATTN: Aaron Young

Test Start: 2018.02.15 @ 02:27:21

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 8.79 in³

Resistivity: 0.00 ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

0 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	ocm 10%o 90%m	0.148
0.00	155 GIP	0.000

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

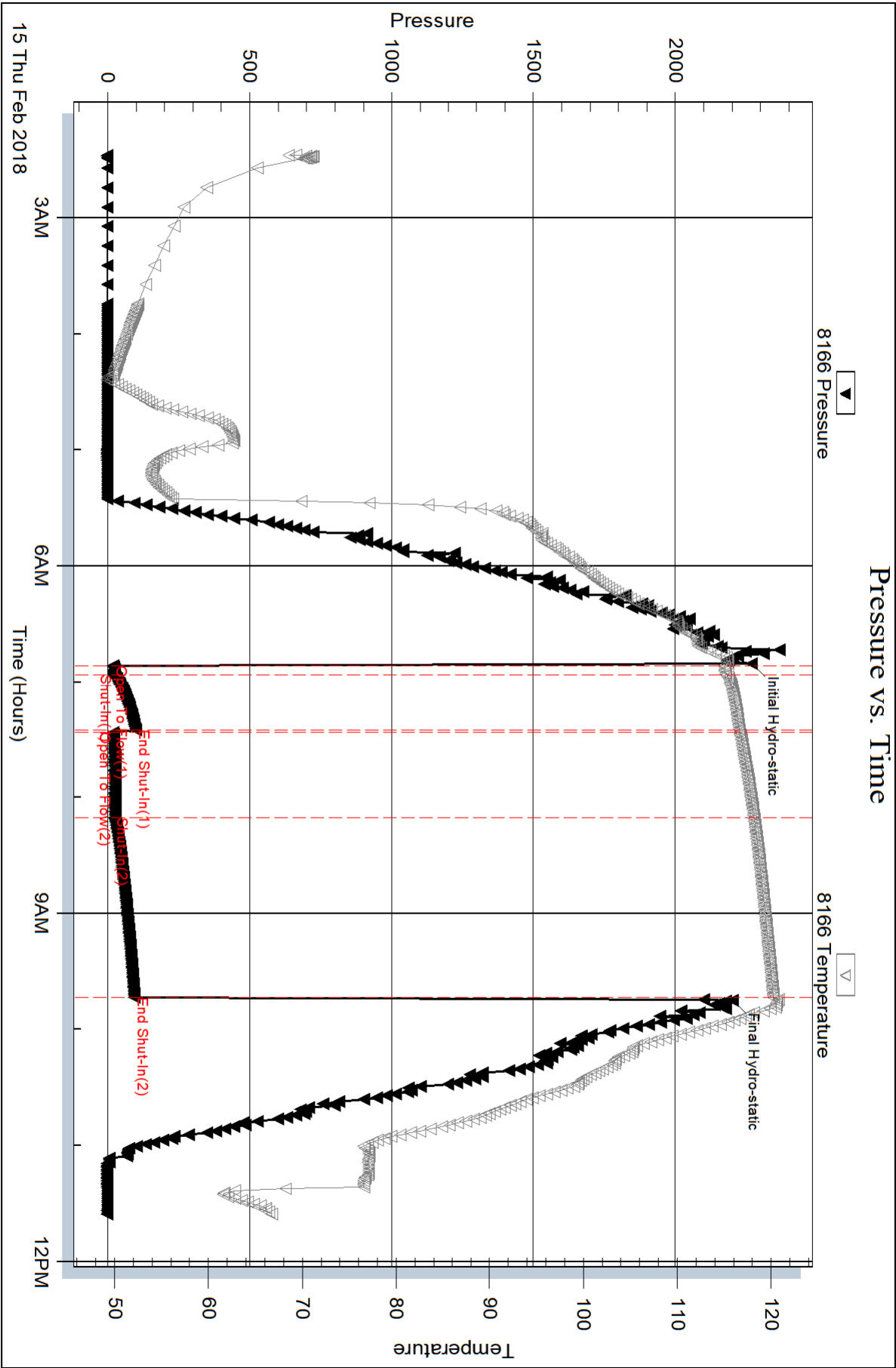
Recovery Comments:

Serial #: 8166

Outside Norstar Petroleum

Dow n-Wald Unit #1-1

DST Test Number: 1



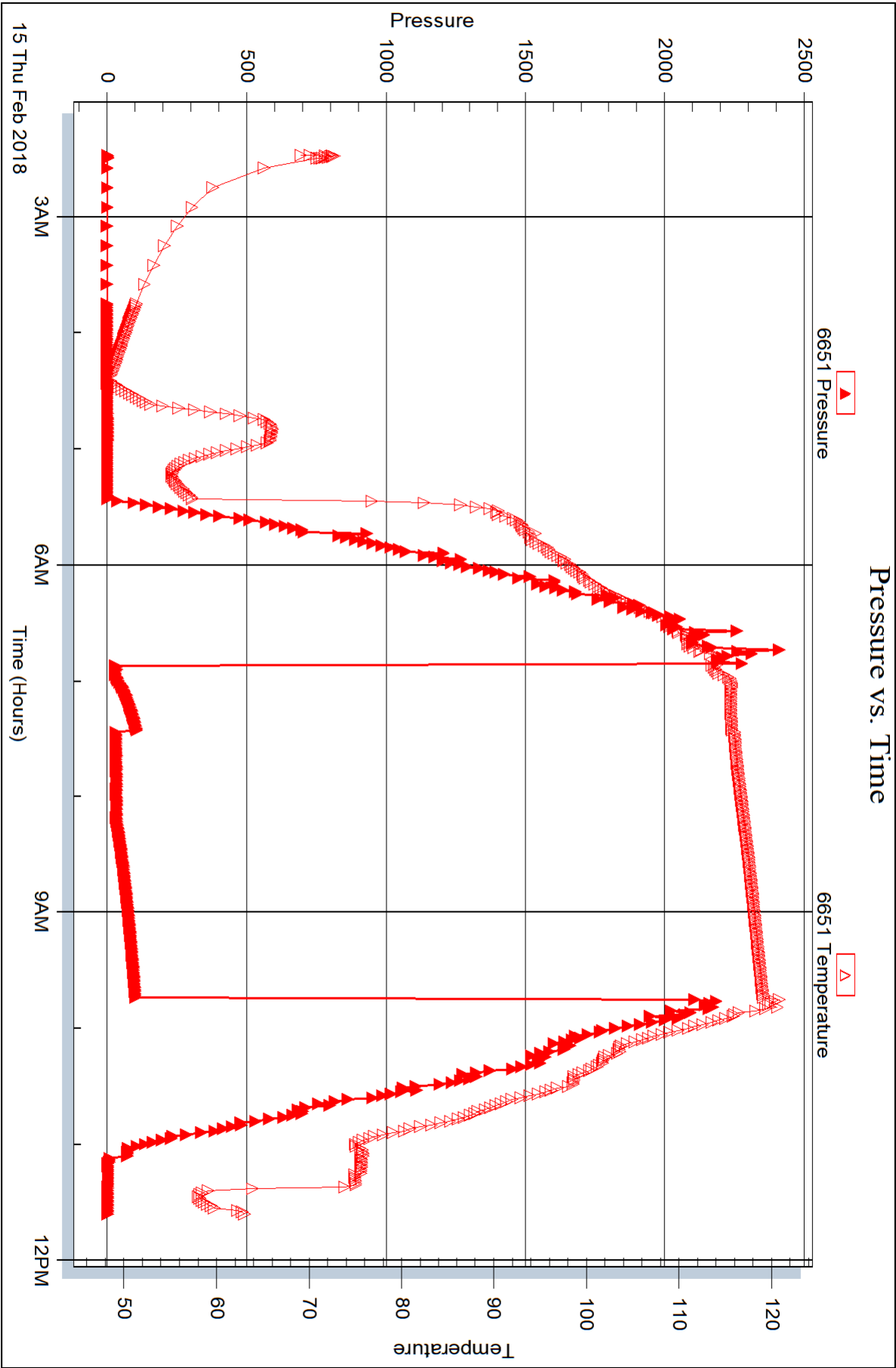
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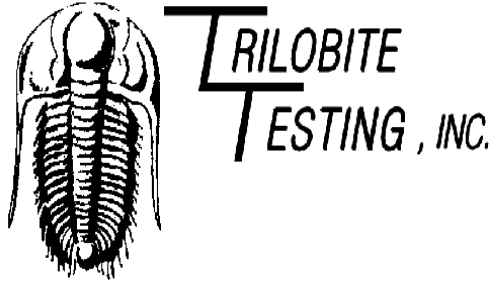
Inside

Norstar Petroleum

Dow n-Wald Unit #1-1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum**

88 Inverness Cir E Unit F104
Englewood, CO 80112

ATTN: Aaron Young

Down-Wald Unit #1-1

1-19s-27w Lane,KS

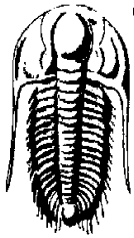
Start Date: 2018.02.15 @ 23:58:19

End Date: 2018.02.16 @ 06:44:19

Job Ticket #: 64299 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.02.20 @ 14:46:16



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum
88 Inverness Cir E Unit F104
Englewood, CO 80112
ATTN: Aaron Young

1-19s-27w Lane, KS

Down-Wald Unit #1-1

Job Ticket: 64299

DST#: 2

Test Start: 2018.02.15 @ 23:58:19

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:00:19

Time Test Ended: 06:44:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4526.00 ft (KB) To 4572.00 ft (KB) (TVD)

Total Depth: 4572.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2647.00 ft (KB)

2640.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8166 Outside

Press@RunDepth: 17.85 psig @ 4531.00 ft (KB)

Start Date: 2018.02.15

End Date:

2018.02.16

Start Time: 23:58:24

End Time:

06:44:18

Capacity: 8000.00 psig

Last Calib.: 2018.02.16

Time On Btm: 2018.02.16 @ 02:59:19

Time Off Btm: 2018.02.16 @ 04:36:19

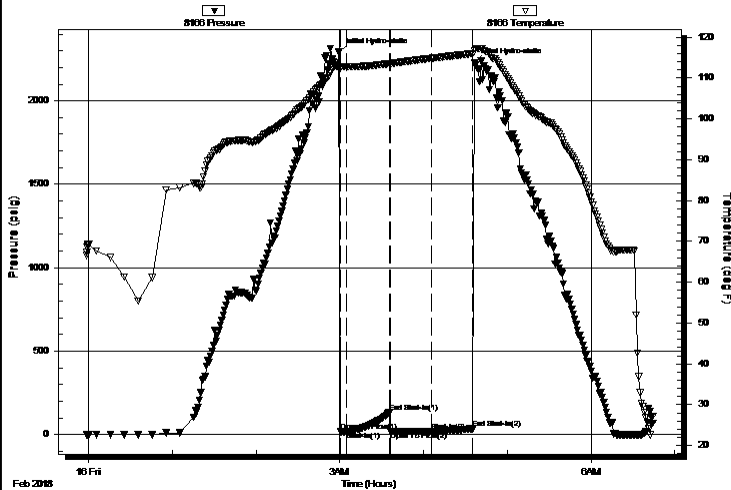
TEST COMMENT: IF: 1/4" blow died to surface blow.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2291.39	112.84	Initial Hydro-static
1	16.95	112.47	Open To Flow (1)
6	17.41	112.77	Shut-In(1)
36	130.75	113.53	End Shut-In(1)
37	17.63	113.52	Open To Flow (2)
67	17.85	114.84	Shut-In(2)
96	35.19	116.01	End Shut-In(2)
97	2226.36	116.62	Final Hydro-static

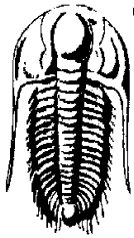
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum

88 Inverness Cir E Unit F104
Englewood, CO 80112

ATTN: Aaron Young

1-19s-27w Lane, KS

Down-Wald Unit #1-1

Job Ticket: 64299

DST#: 2

Test Start: 2018.02.15 @ 23:58:19

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:00:19

Time Test Ended: 06:44:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4526.00 ft (KB) To 4572.00 ft (KB) (TVD)

Total Depth: 4572.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2647.00 ft (KB)

2640.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6651 Inside

Press@RunDepth: psig @ 4531.00 ft (KB)

Start Date: 2018.02.15

End Date:

2018.02.16

Start Time: 23:58:19

End Time:

06:44:13

Capacity: 8000.00 psig

Last Calib.:

2018.02.16

Time On Btm:

Time Off Btm:

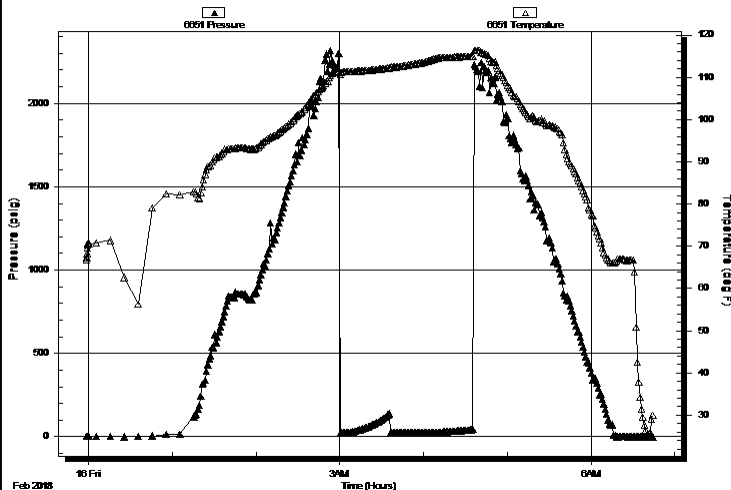
TEST COMMENT: IF: 1/4" blow died to surface blow.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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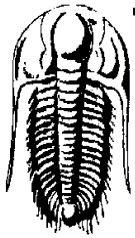
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

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

1-19s-27w Lane,KS

88 Inverness Cir E Unit F104
Englewood, CO 80112

Down-Wald Unit #1-1

Job Ticket: 64299

DST#: 2

ATTN: Aaron Young

Test Start: 2018.02.15 @ 23:58:19

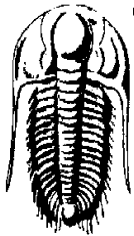
Tool Information

Drill Pipe:	Length: 4406.00 ft	Diameter: 3.80 inches	Volume: 61.80 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	75000.00 lb
		Total Volume:	62.40 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4526.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 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
------------------	-------------	------------	----------	------------	----------------

Stubb	1.00			4504.00	
Shut In Tool	5.00			4509.00	
Hydraulic tool	5.00			4514.00	
Jars	5.00			4519.00	
Safety Joint	2.00			4521.00	
Packer	5.00			4526.00	23.00 Bottom Of Top Packer
Packer - Shale	4.00			4530.00	
Stubb	1.00			4531.00	
Recorder	0.00	6651	Inside	4531.00	
Recorder	0.00	8166	Outside	4531.00	
Perforations	7.00			4538.00	
Change Over Sub	1.00			4539.00	
Drill Pipe	31.00			4570.00	
Change Over Sub	1.00			4571.00	
Bullnose	5.00			4576.00	50.00 Anchor Tool

Total Tool Length: 73.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum

1-19s-27w Lane, KS

88 Inverness Cir E Unit F104
Englewood, CO 80112

Down-Wald Unit #1-1

Job Ticket: 64299

DST#: 2

ATTN: Aaron Young

Test Start: 2018.02.15 @ 23:58:19

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

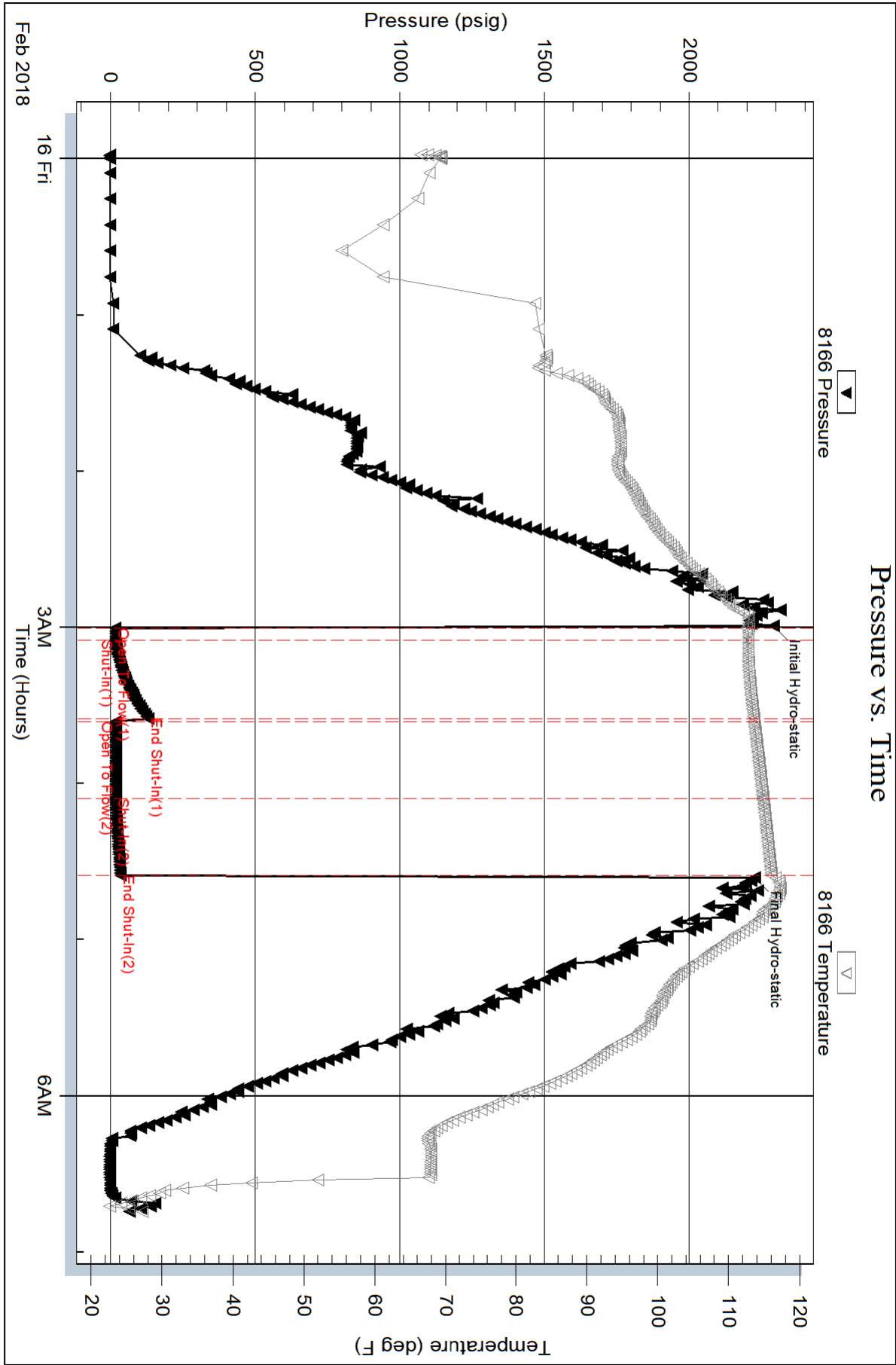
Recovery Comments:

Serial #: 8166

Outside Norstar Petroleum

Dow n-Wald Unit #1-1

DST Test Number: 2



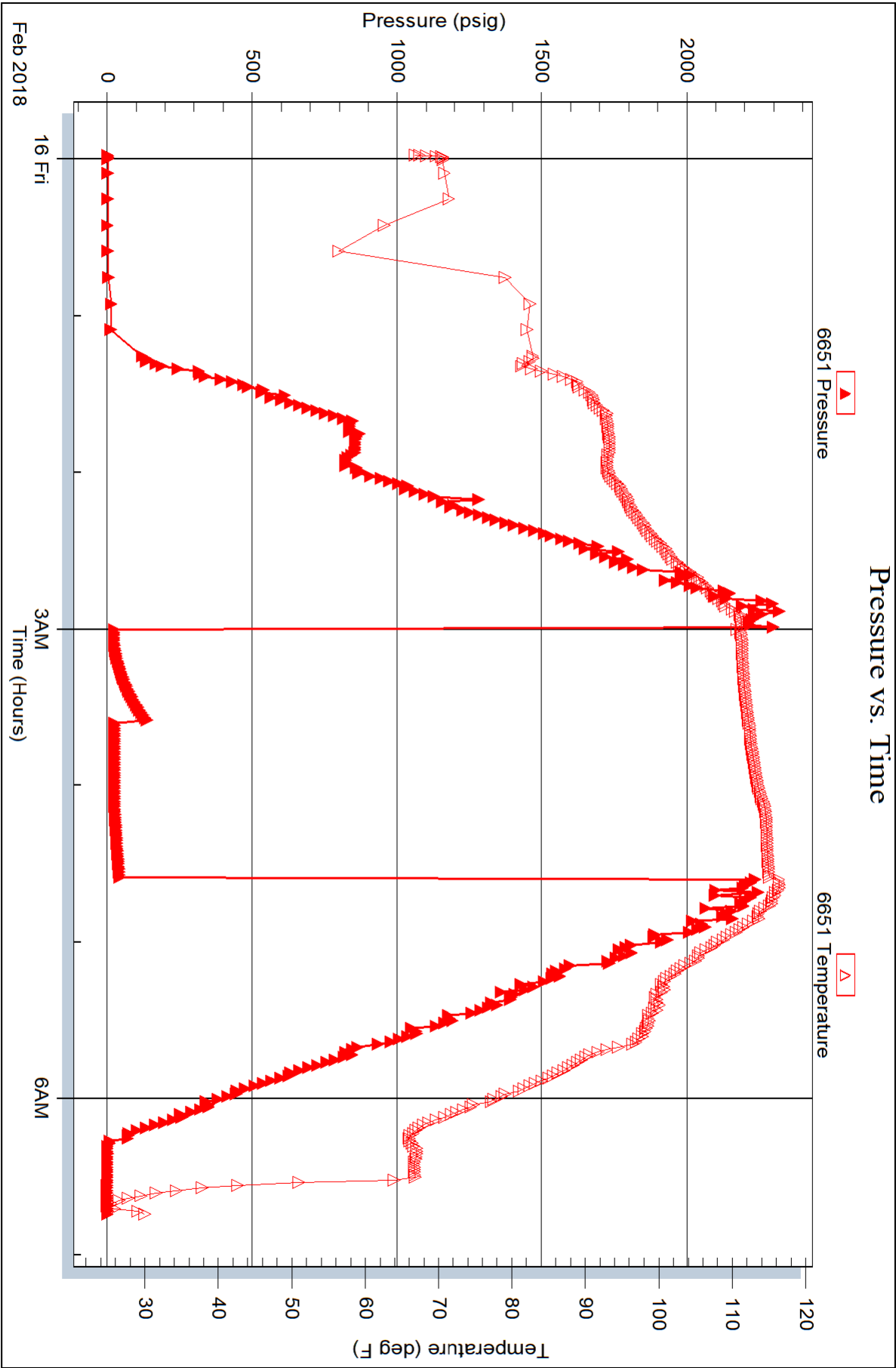
Serial #: 6651

Inside

Norstar Petroleum

Dow n-Wald Unit #1-1

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64298**

Well Name & No. Down-world unit 1-1 Test No. 1 Date 2-15-18
 Company NHSTR Petroleum Elevation 2647 KB 2640 GL
 Address 88 Inverness Cir E unit F164 Englewood, CO 80112
 Co. Rep / Geo. Aaron Young Rig Pickrell #10
 Location: Sec. 1 Twp. 19S Rge. 27W Co. LaMe State KS

Interval Tested 4488 4508 Zone Tested Ft Scott
 Anchor Length 50 Drill Pipe Run 4344 Mud Wt. 9.4
 Top Packer Depth 4483 Drill Collars Run 121 Vis 53
 Bottom Packer Depth 4488 Wt. Pipe Run — WL 8.8
 Total Depth 4508 Chlorides 3000 ppm System LCM 2

Blow Description IF: 1/4 blow built to 1,
IS: No return.
FF: 1/2 blow built to 4 1/2,
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>ocm</u>	<u>10</u>		<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>155 gfp</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 120 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2268</u>	☒ Test <u>1150</u>	T-On Location <u>1:45</u>
(B) First Initial Flow <u>19</u>	☒ Jars <u>250</u>	T-Started <u>2:27</u>
(C) First Final Flow <u>21</u>	☒ Safety Joint <u>75</u>	T-Open <u>6:50</u>
(D) Initial Shut-In <u>98</u>	☒ Circ Sub <u>NIL</u>	T-Pulled <u>9:50</u>
(E) Second Initial Flow <u>20</u>	☐ Hourly Standby	T-Out <u>11:36</u>
(F) Second Final Flow <u>22</u>	☒ Mileage <u>87-87</u>	Comments
(G) Final Shut-In <u>93</u>	☐ Sampler	
(H) Final Hydrostatic <u>2201</u>	☐ Straddle	

Initial Open 5
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 90

☒ Shale Packer 250
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility

Sub Total 1812

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1812
 MP/DST Disc't

Approved By

Our Representative

Trilobite Testing Inc. shall not be liable for damaged or 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. **64299**

Well Name & No. Down-world unit H-1 Test No. 2 Date 2-15-18
Company Norstar Petroleum Elevation 2647 KB 2640 GL
Address _____
Co. Rep / Geo. Arnon Young Rig Pickrell #10
Location: Sec. 1 Twp. 19S Rge. 27W Co. Lin State KS

Interval Tested 4526 4572 Zone Tested Chero kee
Anchor Length 46 Drill Pipe Run 4406 Mud Wt. 9.5
Top Packer Depth 4521 Drill Collars Run 121 Vis 56
Bottom Packer Depth 4526 Wt. Pipe Run --- WL 8.8
Total Depth 4572 Chlorides 2500 ppm System LCM 2

Blow Description ±F; 1/4 blow died to surface.
±S; No return.
FF; No blow.
FS; No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</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 5 BHT 116 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic	(B) First Initial Flow	(C) First Final Flow	(D) Initial Shut-In	(E) Second Initial Flow	(F) Second Final Flow	(G) Final Shut-In	(H) Final Hydrostatic
<u>2291</u>	<u>16</u>	<u>17</u>	<u>130</u>	<u>17</u>	<u>17</u>	<u>35</u>	<u>2226</u>

☒ Test 1150
☒ Jars 250
☒ Safety Joint 75
☒ Circ Sub NIC
☐ Hourly Standby
☒ Mileage 87 x 2 87+87
☐ Sampler
☐ Straddle
☒ Shale Packer 250
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
Sub Total 1899

T-On Location 23:15
T-Started 23:58
T-Open 3:00
T-Pulled 4:35
T-Out 6:45

Comments _____
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
Sub Total 0
Total 1899
MP/DST Disc't _____

Initial Open 5
Initial Shut-In 30
Final Flow 30
Final Shut-In 30

Approved By [Signature] Our Representative [Signature]
TriLOBITE TESTING INC. shall not be liable for damaged or 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.

TREATMENT REPORT



HURRICANE SERVICES INC

Customer:	Norstar Petroleum Inc.		Date: 2/8/2018 Ticket No.: 100875
Field Rep:	Mike Kern		
Address:			
City, State:			
County, Zip:			

Field Order No.:	100875
Well Name:	Down Wald Unit # 1-1
Location:	Ness City
Formation:	
Type of Service:	Surface
Well Type:	Oil
Age of Well:	New
Packer Type:	
Packer Depth:	
Treatment Via:	Casing

Open Hole:	
Casing Depth:	222'
Casing Size:	8 5/8 23 LB
Tubing Depth:	
Tubing Size:	
Liner Depth:	
Liner Size:	
Liner Top:	
Liner Bottom:	
Total Depth:	223'

Perf Depths (ft)		Perfs
Total Perfs		0

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (g/s)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
10:00 PM					Called Out			
12:45 PM					On Location W/Trucks Hold Safety Meeting			
					Spot & Set Up Trucks			
					TD= 223' TP= 222' SJ= 25'			
4:35 AM					Start Casing			
6:05 AM					Casing On Bottom			
6:25 AM	4.0		100.0		Hook Up To Casing Break Circulation W/Pump Truck			15.00
	4.5		200.0		Start Mix & Pump 160 Sacks Common 2% Gel 3% CC			40.18
	4.5		180.0		Start Displacement H2O			12.75
6:45 AM			150.0		Shut Down			
6:45 AM			125.0		Close Vavle On Casing			
					Good Circulation Thru Job			
					Circulate 15 Sacks To Pit			
					Wash Up Truck & Rack Up Trucks			
7:30 AM					Off Location			
					Thank You			
					Please Call Again			
					Todd Brad Cody			
TOTAL:						-	-	67.93

SUMMARY

Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
4.5	4.3	200.0	151.0

PRODUCTS USED

160 Sacks Common 2% Gel 3% Calcium Chloride

Treater: *Todd Seba*

Customer: Mike Kern

TREATMENT REPORT



HURRICANE SERVICES INC

Customer:	Norstar Petroleum Inc.		Date: 2/17/2018 Ticket No.: 100879
Field Rep:	Mike Kern		
Address:			
City, State:			
County, Zip:			

Field Order No.:	100879
Well Name:	Down Wald Unit # 1-1
Location:	Ness City
Formation:	
Type of Service:	PTA
Well Type:	Oil
Age of Well:	New
Packer Type:	
Packer Depth:	
Treatment Via:	4 1/2 DP

Open Hole:	
Casing Depth:	
Casing Size:	
Tubing Depth:	
Tubing Size:	4 1/2 16.6 Lb
Liner Depth:	
Liner Size:	
Liner Top:	
Liner Bottom:	
Total Depth:	278'

Perf Depths (ft)		Perfs
Total Perfs		0

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
3:00 AM					Called Out			
7:45 AM					On Location W/Trucks Hold Safety Meeting			
					Spot & Set Up Trucks			
					1 St Plug @ 2040' 50 Sk 60/40 4% Gel 1/4 Lb/Sk PS			
9:45 AM	4.5		150.0		Start Pumping H20			20.00
	4.5		150.0		Start Mix & Pump 50 Sk 60/40 4% Gel 1/4 Lb PS			12.65
	4.5		150.0		Start Displace H20			5.00
	7.0		250.0		Start Displace Mud			21.00
10:03 AM					Shut Down PDPOOH			
					2 Nd Plug @ 1200' 80 Sk 60/40 4% Gel 1/4 Lb PS			
10:30 AM	4.8		150.0		Start Pumping H20			15.00
	4.8		150.0		Start Mix & Pump 80 Sk 60/40 4% Gel 1/4 Lb PS			20.23
	4.8		150.0		Start Displace H20			5.00
	7.0		200.0		Start Displace Mud			6.00
10:46 AM					Shut Down PDPOOH			
					3 rd Plug @ 600' 50 Sk 60/40 45 Gel 1/4 Lb PS			
11:02	4.6		100.0		Start Pumping H20			20.00
	4.6		100.0		Start Mix & Pump 50 Sk 60/40 4% Gel 1/4 Lb PS			12.65
TOTAL:						-	-	170.33

SUMMARY

Max FI. Rate	Avg FI. Rate	Max PSI	Avg PSI
7.0	4.8	250.0	131.3

PRODUCTS USED

280 Sacks 60/40 4% Gel 1/4 Lb/sk PS

Treater: *Todd Seba*

Customer: Mike Kern

TREATMENT REPORT



Activity provided on this page is calculated in the summary and totals on page 1