

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Norstar Petroleum, Inc.
Well Name	CBCF 6-31
Doc ID	1440223

Tops

Name	Top	Datum
Anhydrite	1437	+636
Heebner Sh	3448	-1375
Lansing	3488	-1415
Stark Sh	3670	-1597
Pawnee	3835	-1762
Labette Sh	3895	-1822
Ft Scott	3914	-1841
Mississippi	3992	-1919



DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc.**

88 Inverness Cir. E Unit F104
Englewood CO 80112+5514

ATTN: Larry Friend

CBCF #6-31

31-14S-21W Trego,KS

Start Date: 2018.11.25 @ 01:35:00

End Date: 2018.11.25 @ 08:03:02

Job Ticket #: 64562 DST #: 1

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

Printed: 2018.11.30 @ 08:43:42



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum Inc.
 88 Inverness Cir. E Unit F104
 Englewood CO 80112+5514
 ATTN: Larry Friend

31-14S-21W Trego, KS
CBCF #6-31
 Job Ticket: 64562 **DST#: 1**
 Test Start: 2018.11.25 @ 01:35:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:03:32
 Time Test Ended: 08:03:02
 Interval: **3928.00 ft (KB) To 3937.00 ft (KB) (TVD)**
 Total Depth: 3937.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2073.00 ft (KB)
 2066.00 ft (CF)
 KB to GR/CF: 7.00 ft

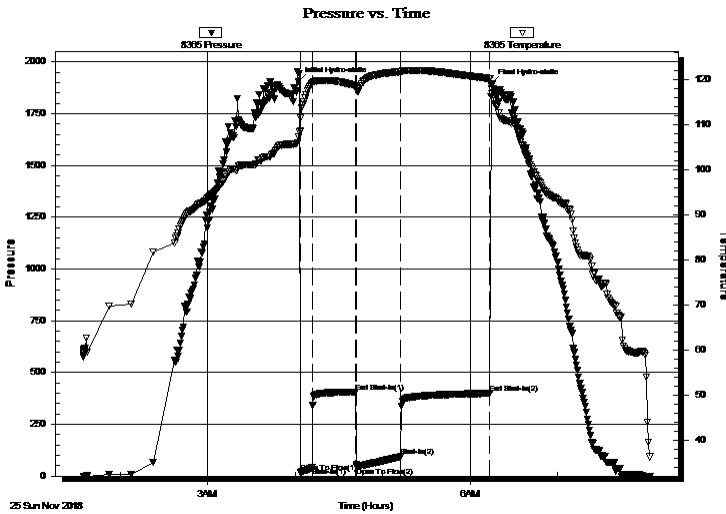
Serial #: 8365

Inside

Press@RunDepth: 93.86 psig @ 3929.00 ft (KB) Capacity: psig
 Start Date: 2018.11.25 End Date: 2018.11.25 Last Calib.: 2018.11.25
 Start Time: 01:35:01 End Time: 08:03:02 Time On Btm: 2018.11.25 @ 04:02:17
 Time Off Btm: 2018.11.25 @ 06:14:47

TEST COMMENT: IFP 5 Minutes/ Blow built to 10"
 ISI 30 Minutes/ 1/2" blow back
 FFP 30 Minutes/ Blow built to BOB in 10 minutes Total build 32"
 FSI 60 Minutes/ 1 1/2" blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.98	107.22	Initial Hydro-static
2	18.12	108.52	Open To Flow (1)
10	44.25	119.09	Shut-In(1)
40	405.64	118.61	End Shut-In(1)
40	44.40	118.24	Open To Flow (2)
70	93.86	121.77	Shut-In(2)
132	399.79	120.20	End Shut-In(2)
133	1891.99	117.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	HMCO M 40% O 60%	0.05
50.00	MCO M 10% O 90%	0.25
170.00	GO G 10% O 90%	1.84

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum Inc.
 88 Inverness Cir. E Unit F104
 Englewood CO 80112+5514
 ATTN: Larry Friend

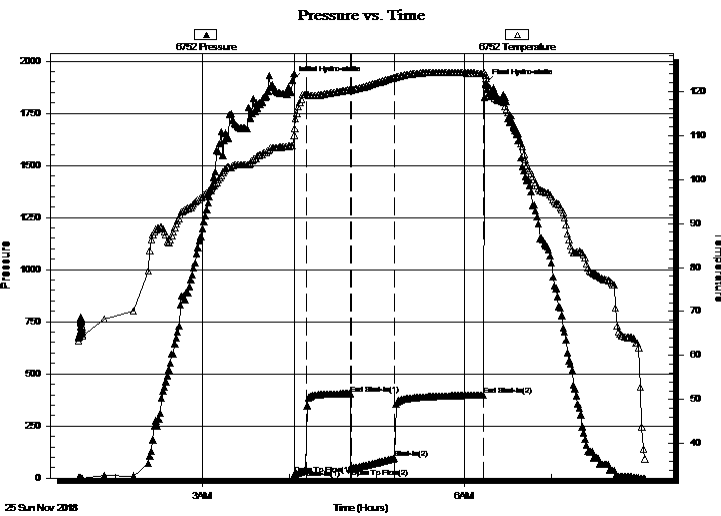
31-14S-21W Trego, KS
CBCF #6-31
 Job Ticket: 64562 **DST#: 1**
 Test Start: 2018.11.25 @ 01:35:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:03:32
 Time Test Ended: 08:03:02
 Interval: **3928.00 ft (KB) To 3937.00 ft (KB) (TVD)**
 Total Depth: 3937.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2073.00 ft (KB)
 2066.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6752 Outside
 Press@RunDepth: 398.90 psig @ 3930.00 ft (KB) Capacity: psig
 Start Date: 2018.11.25 End Date: 2018.11.25 Last Calib.: 2018.11.25
 Start Time: 01:35:01 End Time: 08:04:02 Time On Btm: 2018.11.25 @ 04:02:02
 Time Off Btm: 2018.11.25 @ 06:14:47

TEST COMMENT: IFP 5 Minutes/ Blow built to 10"
 ISI 30 Minutes/ 1/2" blow back
 FFP 30 Minutes/ Blow built to BOB in 10 minutes Total build 32"
 FSI 60 Minutes/ 1 1/2" blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.52	107.69	Initial Hydro-static
2	18.98	111.56	Open To Flow (1)
10	41.41	119.23	Shut-In(1)
40	405.01	120.26	End Shut-In(1)
41	45.44	120.28	Open To Flow (2)
71	94.29	123.10	Shut-In(2)
132	398.90	124.02	End Shut-In(2)
133	1890.64	123.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	HMCO M 40% O 60%	0.05
50.00	MCO M 10% O 90%	0.25
170.00	GO G 10% O 90%	1.84

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc.

31-14S-21W Trego,KS

88 Inverness Cir. E Unit F104
Englewood CO 80112+5514

CBCF #6-31

Job Ticket: 64562

DST#: 1

ATTN: Larry Friend

Test Start: 2018.11.25 @ 01:35:00

Tool Information

Drill Pipe:	Length: 3792.00 ft	Diameter: 3.80 inches	Volume: 53.19 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: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3928.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	31.00 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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Shut-In Tool	5.00			3911.00	
Hydraulic tool	5.00			3916.00	
Safety Joint	2.00			3918.00	
Top Packer	5.00			3923.00	
Packer	5.00			3928.00	22.00 Bottom Of Top Packer
Recorder	1.00	8365	Inside	3929.00	
Recorder	1.00	6752	Outside	3930.00	
Anchor	4.00			3934.00	
Bullnose	3.00			3937.00	9.00 Anchor Tool
Total Tool Length:	31.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc.

31-14S-21W Trego,KS

88 Inverness Cir. E Unit F104
Englewood CO 80112+5514

CBCF #6-31

Job Ticket: 64562

DST#: 1

ATTN: Larry Friend

Test Start: 2018.11.25 @ 01:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

42 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	HMCO M 40% O 60%	0.049
50.00	MCO M 10% O 90%	0.246
170.00	GO G 10% O 90%	1.838

Total Length: 230.00 ft Total Volume: 2.133 bbl

Num Fluid Samples: 0

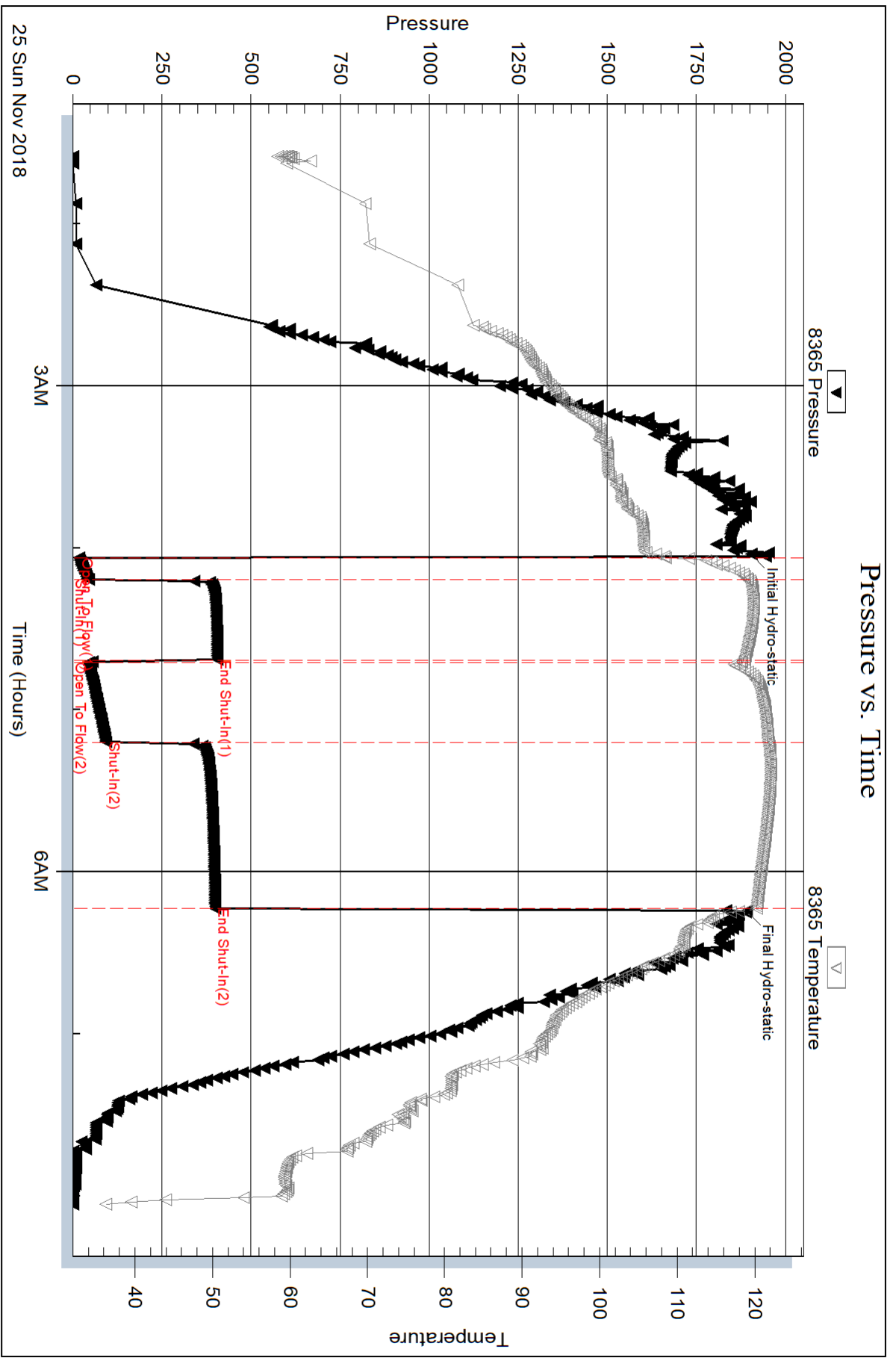
Num Gas Bombs: 0

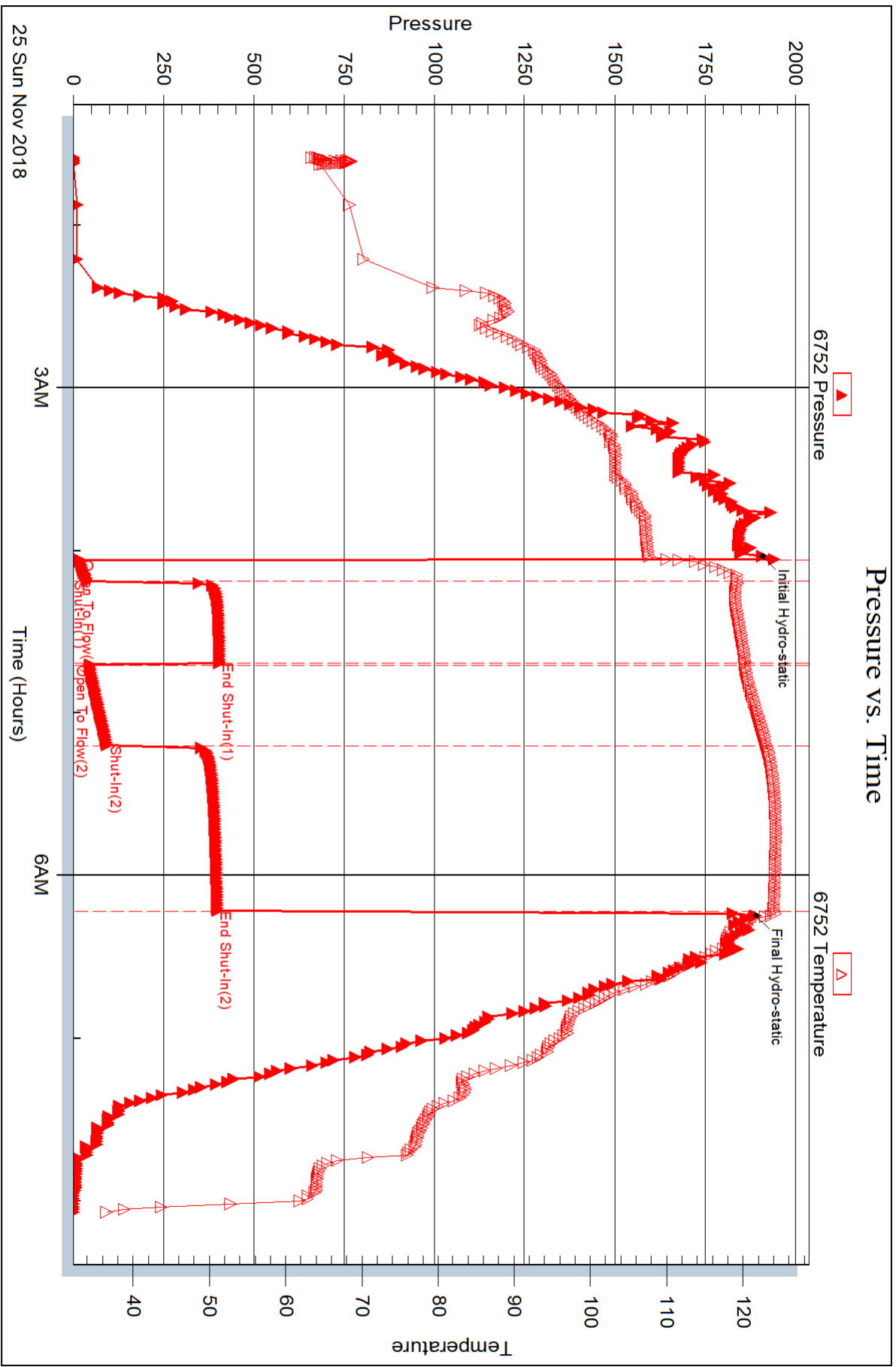
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc.**

88 Inverness Cir. E Unit F104
Englewood CO 80112+5514

ATTN: Larry Friend

CBCF #6-31

31-14S-21W Trego,KS

Start Date: 2018.11.25 @ 22:12:00

End Date: 2018.11.26 @ 03:28:02

Job Ticket #: 64563 DST #: 2

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

Printed: 2018.11.30 @ 08:43:18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum Inc.
 88 Inverness Cir. E Unit F104
 Englewood CO 80112+5514
 ATTN: Larry Friend

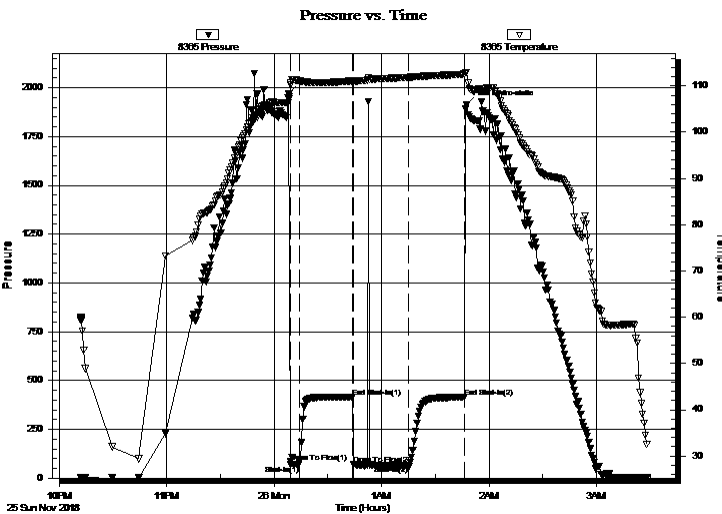
31-14S-21W Trego, KS
CBCF #6-31
 Job Ticket: 64563 **DST#: 2**
 Test Start: 2018.11.25 @ 22:12:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:09:02
 Time Test Ended: 03:28:02
 Interval: **3940.00 ft (KB) To 3950.00 ft (KB) (TVD)**
 Total Depth: 3950.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2073.00 ft (KB)
 2066.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8365 Inside
 Press@RunDepth: 63.86 psig @ 3941.00 ft (KB) Capacity: psig
 Start Date: 2018.11.25 End Date: 2018.11.26 Last Calib.: 2018.11.26
 Start Time: 22:12:01 End Time: 03:28:02 Time On Btm: 2018.11.26 @ 00:08:17
 Time Off Btm: 2018.11.26 @ 01:47:32

TEST COMMENT: IFP 5 Minutes Tool slid 5' - Blow built to 3 1/2"
 ISI 30 Minutes No blow back
 FFP 30 Minutes Few bubbles at open then dead - Flush tool no help
 FSI 30 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1970.14	107.12	Initial Hydro-static
1	83.41	110.22	Open To Flow (1)
6	66.73	111.09	Shut-In(1)
36	415.40	111.05	End Shut-In(1)
37	70.33	111.03	Open To Flow (2)
67	63.86	111.85	Shut-In(2)
98	414.24	112.54	End Shut-In(2)
100	1910.79	112.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud w /show oil in tool/ Mud 100%	0.32

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum Inc.
 88 Inverness Cir. E Unit F104
 Englewood CO 80112+5514
 ATTN: Larry Friend

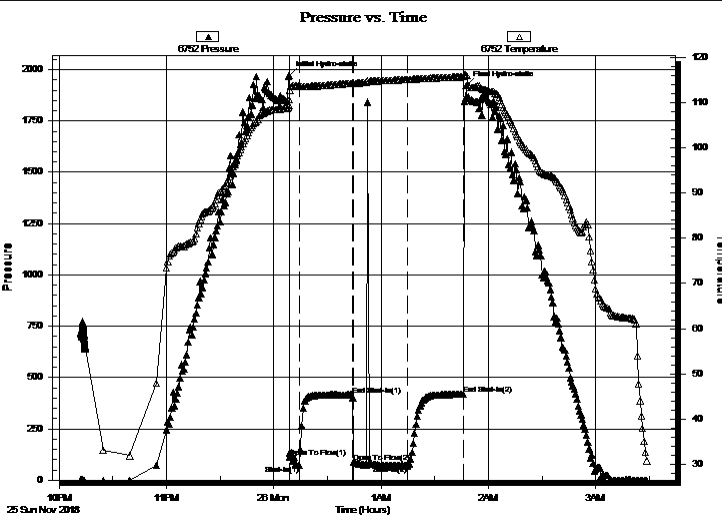
31-14S-21W Trego, KS
CBCF #6-31
 Job Ticket: 64563 **DST#: 2**
 Test Start: 2018.11.25 @ 22:12:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:09:02
 Time Test Ended: 03:28:02
 Interval: **3940.00 ft (KB) To 3950.00 ft (KB) (TVD)**
 Total Depth: 3950.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2073.00 ft (KB)
 2066.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6752 Outside
 Press@RunDepth: 417.96 psig @ 3942.00 ft (KB) Capacity: psig
 Start Date: 2018.11.25 End Date: 2018.11.26 Last Calib.: 2018.11.26
 Start Time: 22:12:01 End Time: 03:29:02 Time On Btm: 2018.11.26 @ 00:08:32
 Time Off Btm: 2018.11.26 @ 01:47:32

TEST COMMENT: IFP 5 Minutes Tool slid 5' - Blow built to 3 1/2"
 ISI 30 Minutes No blow back
 FFP 30 Minutes Few bubbles at open then dead - Flush tool no help
 FSI 30 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1971.93	109.33	Initial Hydro-static
1	111.55	110.68	Open To Flow (1)
6	70.74	113.56	Shut-In(1)
36	416.09	114.22	End Shut-In(1)
37	85.55	114.22	Open To Flow (2)
67	70.10	115.04	Shut-In(2)
98	417.96	115.68	End Shut-In(2)
99	1921.08	116.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud w /show oil in tool/ Mud 100%	0.32

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc.

31-14S-21W Trego,KS

88 Inverness Cir. E Unit F104
Englewood CO 80112+5514

CBCF #6-31

Job Ticket: 64563

DST#: 2

ATTN: Larry Friend

Test Start: 2018.11.25 @ 22:12:00

Tool Information

Drill Pipe:	Length: 3826.00 ft	Diameter: 3.80 inches	Volume: 53.67 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: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 54.26 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3940.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	32.00 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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Shut-In Tool	5.00			3923.00	
Hydraulic tool	5.00			3928.00	
Safety Joint	2.00			3930.00	
Top Packer	5.00			3935.00	
Packer	5.00			3940.00	22.00 Bottom Of Top Packer
Recorder	1.00	8365	Inside	3941.00	
Recorder	1.00	6752	Outside	3942.00	
Anchor	5.00			3947.00	
Bullnose	3.00			3950.00	10.00 Anchor Tool
Total Tool Length:	32.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc.

31-14S-21W Trego,KS

88 Inverness Cir. E Unit F104
Englewood CO 80112+5514

CBCF #6-31

Job Ticket: 64563

DST#: 2

ATTN: Larry Friend

Test Start: 2018.11.25 @ 22:12:00

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: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 14600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Mud w/show oil in tool/ Mud 100%	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

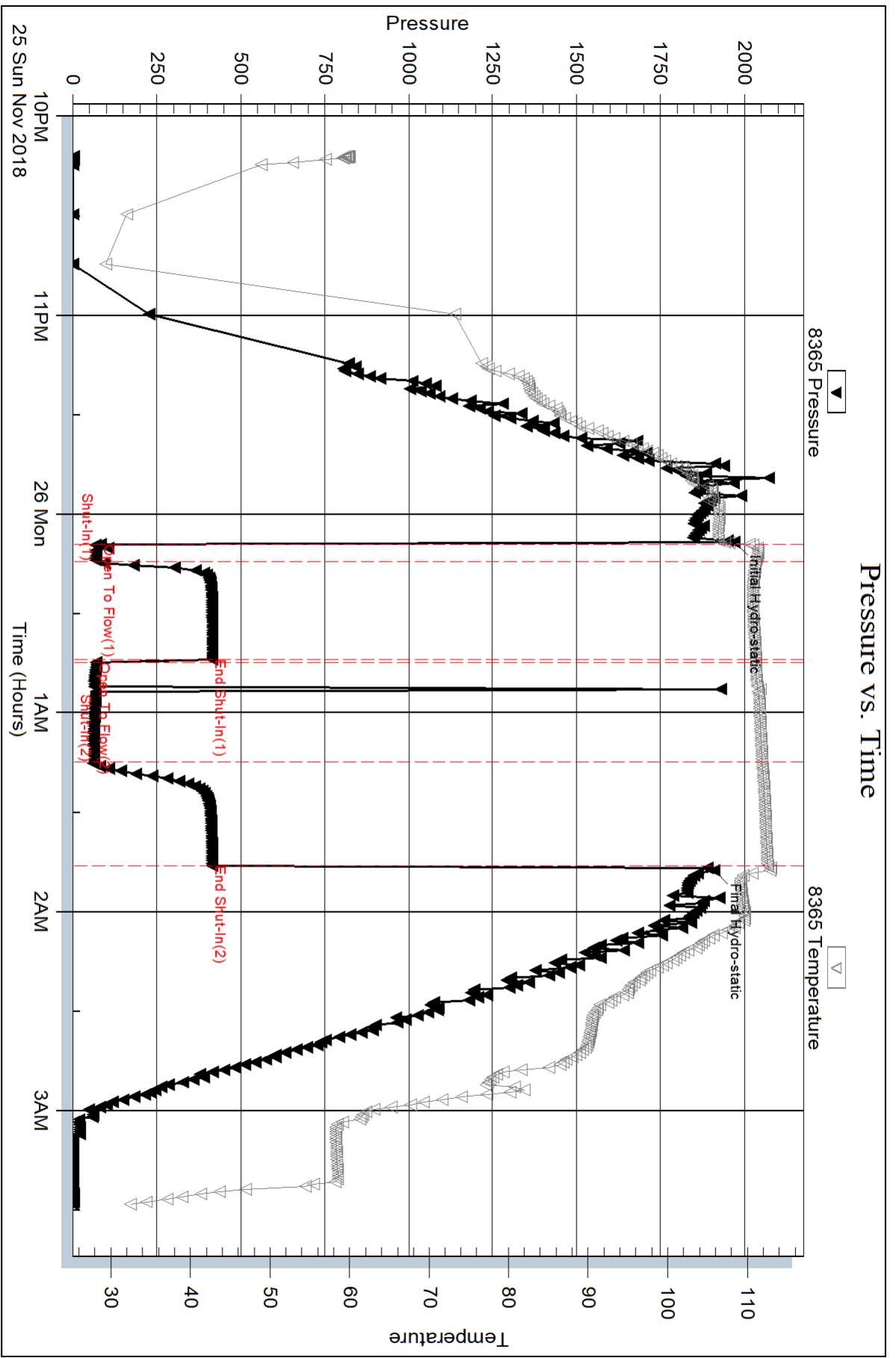
Num Gas Bombs: 0

Serial #:

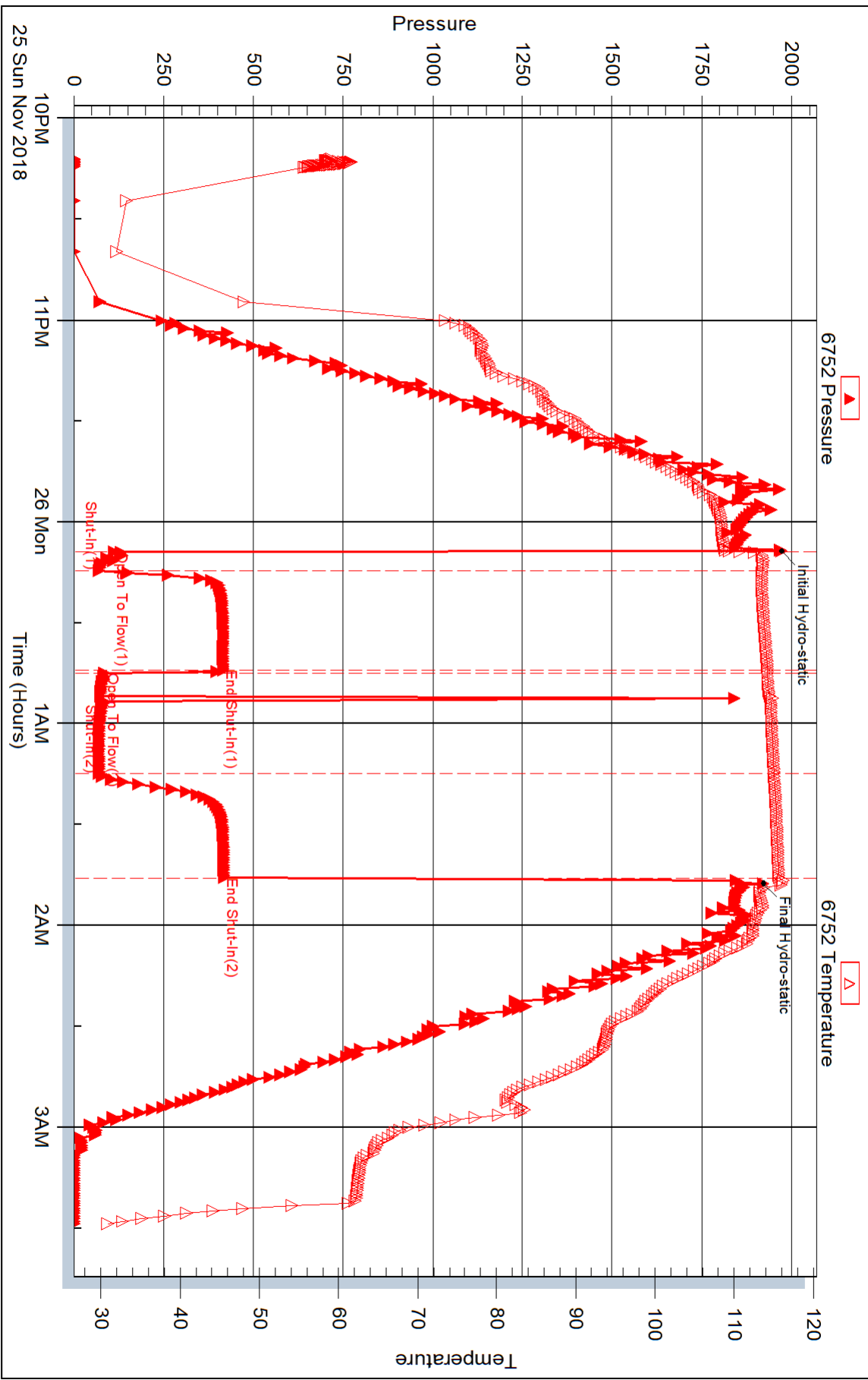
Laboratory Name:

Laboratory Location:

Recovery Comments:



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc.**

88 Inverness Cir. E Unit F104
Englewood CO 80112+5514

ATTN: Larry Friend

CBCF #6-31

31-14S-21W Trego,KS

Start Date: 2018.11.26 @ 16:09:00

End Date: 2018.11.26 @ 22:35:02

Job Ticket #: 64564 DST #: 3

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

Printed: 2018.11.30 @ 08:42:53



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum Inc.
 88 Inverness Cir. E Unit F104
 Englewood CO 80112+5514
 ATTN: Larry Friend

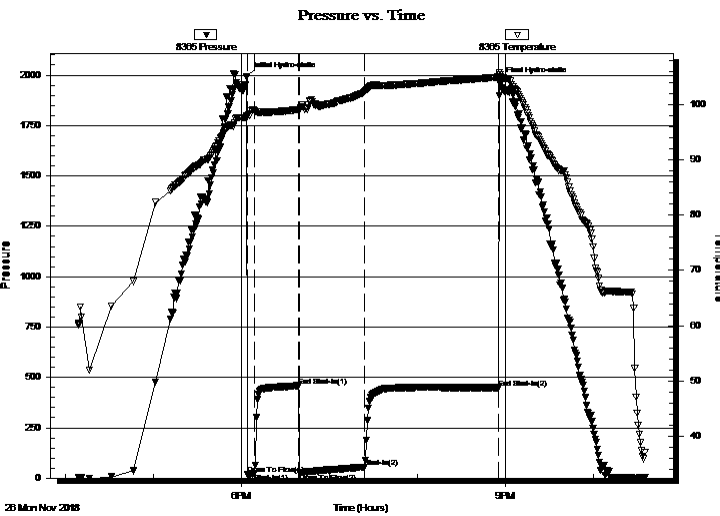
31-14S-21W Trego, KS
CBCF #6-31
 Job Ticket: 64564 **DST#: 3**
 Test Start: 2018.11.26 @ 16:09:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:04:17
 Time Test Ended: 22:35:02
 Interval: **3942.00 ft (KB) To 3971.00 ft (KB) (TVD)**
 Total Depth: 3971.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2073.00 ft (KB)
 2066.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8365 Inside
 Press@RunDepth: 54.60 psig @ 3943.00 ft (KB) Capacity: psig
 Start Date: 2018.11.26 End Date: 2018.11.26 Last Calib.: 2018.11.26
 Start Time: 16:09:01 End Time: 22:35:02 Time On Btm: 2018.11.26 @ 18:03:47
 Time Off Btm: 2018.11.26 @ 20:56:17

TEST COMMENT: IFP 5 Minutes Blow built to 1 1/2"
 ISI 30 Minutes No blow back
 FFP 45 Minutes Blow built to 2 3/4"
 FSI 90 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1990.98	98.03	Initial Hydro-static
1	18.51	97.84	Open To Flow (1)
6	23.01	98.84	Shut-In(1)
36	458.12	99.07	End Shut-In(1)
36	26.23	98.86	Open To Flow (2)
81	54.60	102.34	Shut-In(2)
172	448.52	104.97	End Shut-In(2)
173	1966.18	105.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Watery Mud/ W 20% M 80%	0.49

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum Inc.
88 Inverness Cir. E Unit F104
Englewood CO 80112+5514
ATTN: Larry Friend

31-14S-21W Trego, KS

CBCF #6-31

Job Ticket: 64564

DST#: 3

Test Start: 2018.11.26 @ 16:09:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:04:17
Time Test Ended: 22:35:02
Interval: **3942.00 ft (KB) To 3971.00 ft (KB) (TVD)**
Total Depth: 3971.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72
Reference Elevations: 2073.00 ft (KB)
2066.00 ft (CF)
KB to GR/CF: 7.00 ft

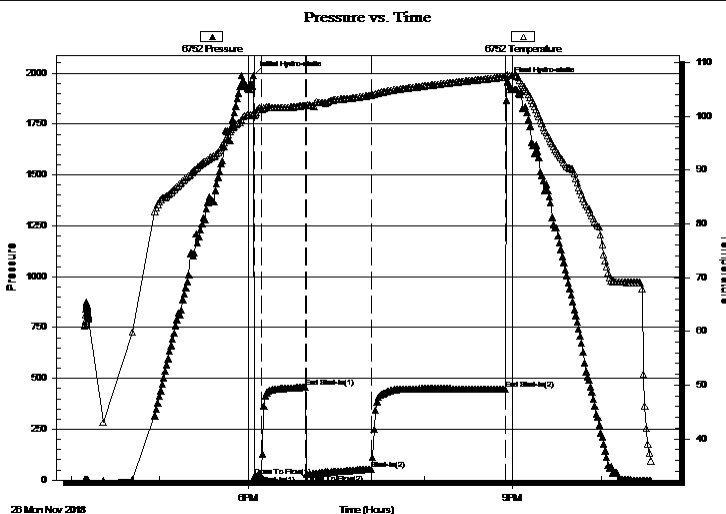
Serial #: 6752

Outside

Press@RunDepth: 447.18 psig @ 3944.00 ft (KB) Capacity: psig
Start Date: 2018.11.26 End Date: 2018.11.26 Last Calib.: 2018.11.26
Start Time: 16:09:01 End Time: 22:34:02 Time On Btm: 2018.11.26 @ 18:03:47
Time Off Btm: 2018.11.26 @ 20:56:32

TEST COMMENT: IFP 5 Minutes Blow built to 1 1/2"
ISI 30 Minutes No blow back
FFP 45 Minutes Blow built to 2 3/4"
FSI 90 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1989.47	100.34	Initial Hydro-static
1	18.83	100.21	Open To Flow (1)
6	23.69	101.27	Shut-In(1)
36	456.81	101.98	End Shut-In(1)
36	26.98	101.95	Open To Flow (2)
81	54.68	103.92	Shut-In(2)
172	447.18	107.29	End Shut-In(2)
173	1960.80	107.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Watery Mud/ W 20% M 80%	0.49

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc.

31-14S-21W Trego,KS

88 Inverness Cir. E Unit F104
Englewood CO 80112+5514

CBCF #6-31

Job Ticket: 64564

DST#: 3

ATTN: Larry Friend

Test Start: 2018.11.26 @ 16:09:00

Tool Information

Drill Pipe:	Length: 3824.00 ft	Diameter: 3.80 inches	Volume: 53.64 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: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 54.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3942.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Ruined Packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3925.00	
Hydraulic tool	5.00			3930.00	
Safety Joint	2.00			3932.00	
Top Packer	5.00			3937.00	
Packer	5.00			3942.00	22.00 Bottom Of Top Packer
Recorder	1.00	8365	Inside	3943.00	
Recorder	1.00	6752	Outside	3944.00	
Anchor	24.00			3968.00	
Bullnose	3.00			3971.00	29.00 Anchor Tool
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc.

31-14S-21W Trego,KS

88 Inverness Cir. E Unit F104
Englewood CO 80112+5514

CBCF #6-31

Job Ticket: 64564

DST#: 3

ATTN: Larry Friend

Test Start: 2018.11.26 @ 16:09:00

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:

19000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 14100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
100.00	Watery Mud/ W 20% M 80%	0.492

Total Length: 100.00 ft Total Volume: 0.492 bbl

Num Fluid Samples: 0

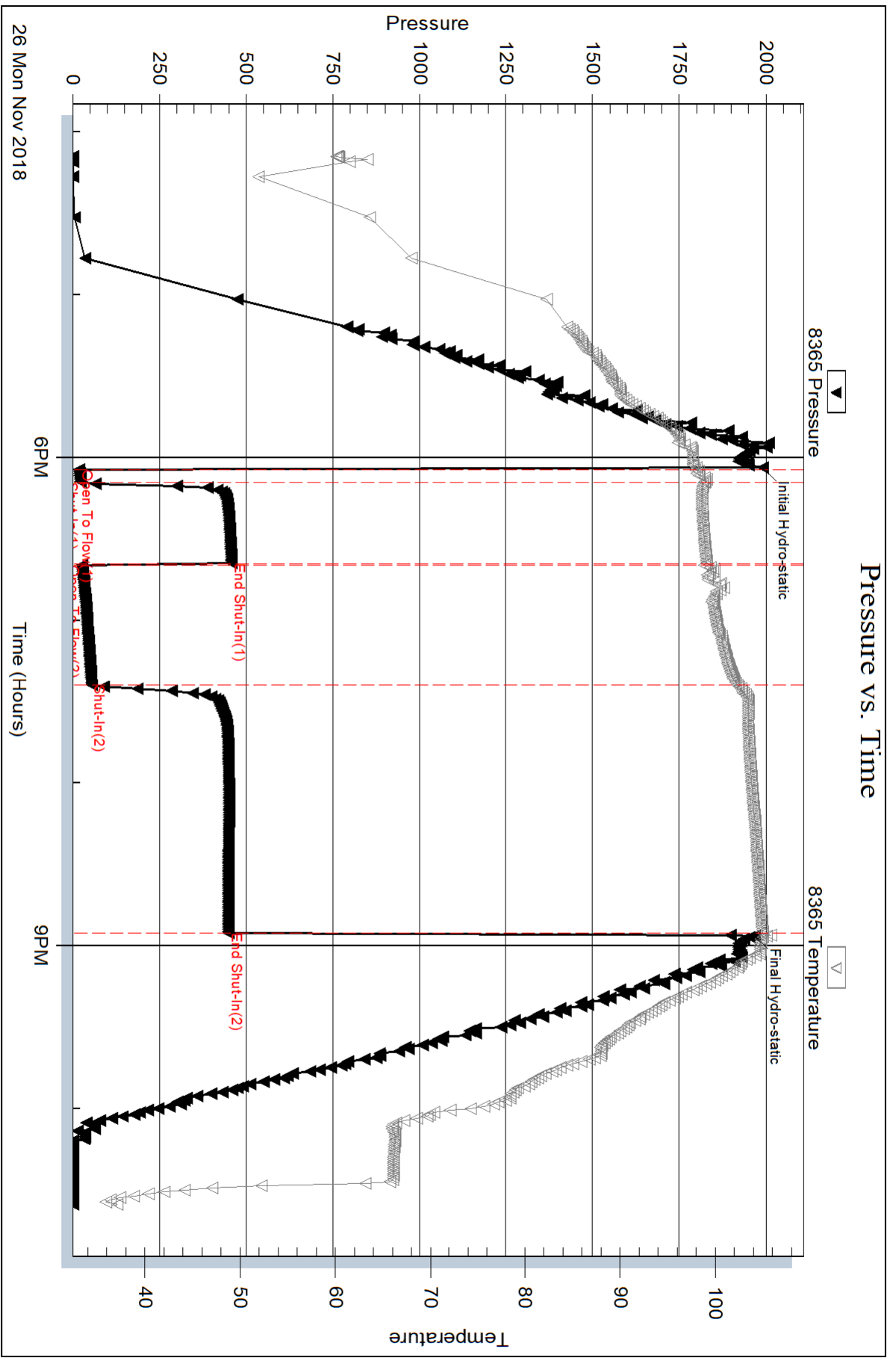
Num Gas Bombs: 0

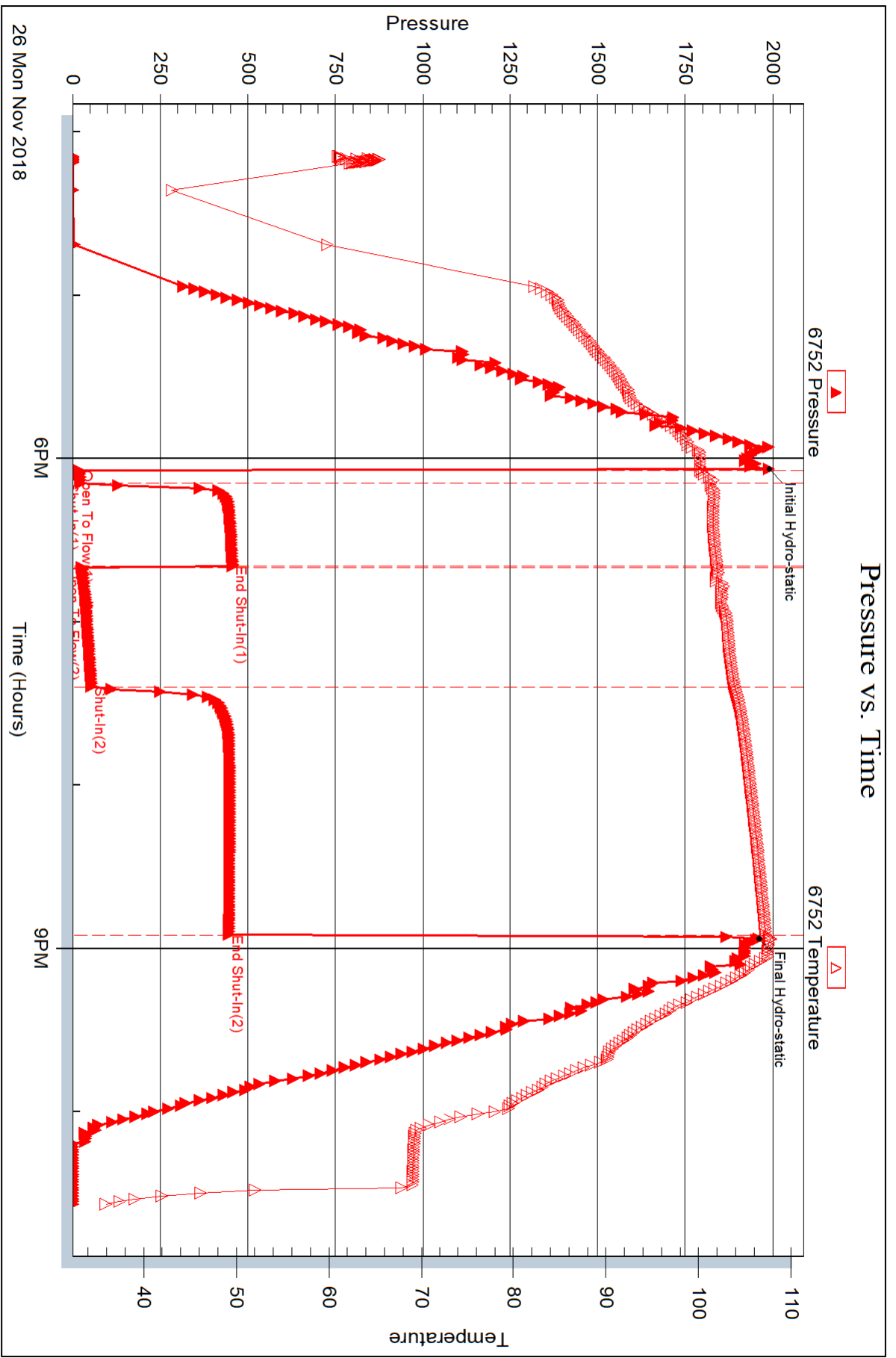
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .657 ohms @ 37 deg.





26 Mon Nov 2018

Time (Hours)



DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc.**

88 Inverness Cir. E Unit F104
Englewood CO 80112+5514

ATTN: Larry Friend

CBCF #6-31

31-14S-21W Trego,KS

Start Date: 2018.11.27 @ 05:52:00

End Date: 2018.11.27 @ 11:32:02

Job Ticket #: 64565 DST #: 4

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

Printed: 2018.11.30 @ 08:42:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum Inc.
 88 Inverness Cir. E Unit F104
 Englewood CO 80112+5514
 ATTN: Larry Friend

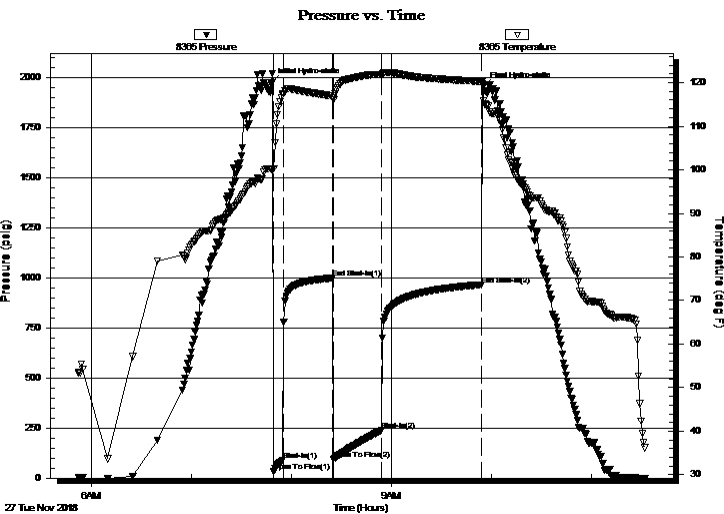
31-14S-21W Trego, KS
CBCF #6-31
 Job Ticket: 64565 **DST#: 4**
 Test Start: 2018.11.27 @ 05:52:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:49:17
 Time Test Ended: 11:32:02
 Interval: **3967.00 ft (KB) To 3979.00 ft (KB) (TVD)**
 Total Depth: 3979.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2073.00 ft (KB)
 2066.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8365 Inside
 Press@RunDepth: 239.42 psig @ 3968.00 ft (KB) Capacity: psig
 Start Date: 2018.11.27 End Date: 2018.11.27 Last Calib.: 2018.11.27
 Start Time: 05:52:01 End Time: 11:32:02 Time On Btm: 2018.11.27 @ 07:48:02
 Time Off Btm: 2018.11.27 @ 09:55:17

TEST COMMENT: IFP 5 Minutes Blow built to 10"
 ISI 30 Minutes No blow back
 FFP 30 Minutes Blow built to BOB in 8 minutes Total build 37"
 FSI 60 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1972.90	100.04	Initial Hydro-static
2	35.22	100.16	Open To Flow (1)
7	89.34	117.41	Shut-In(1)
37	997.46	116.95	End Shut-In(1)
37	94.07	116.47	Open To Flow (2)
66	239.42	121.94	Shut-In(2)
126	964.72	120.28	End Shut-In(2)
128	1953.43	115.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
496.00	SMCW M5% W 95%	5.86

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum Inc.
 88 Inverness Cir. E Unit F104
 Englewood CO 80112+5514
 ATTN: Larry Friend

31-14S-21W Trego, KS

CBCF #6-31

Job Ticket: 64565

DST#: 4

Test Start: 2018.11.27 @ 05:52:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:49:17
 Time Test Ended: 11:32:02
 Interval: **3967.00 ft (KB) To 3979.00 ft (KB) (TVD)**
 Total Depth: 3979.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2073.00 ft (KB)
 2066.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6752

Outside

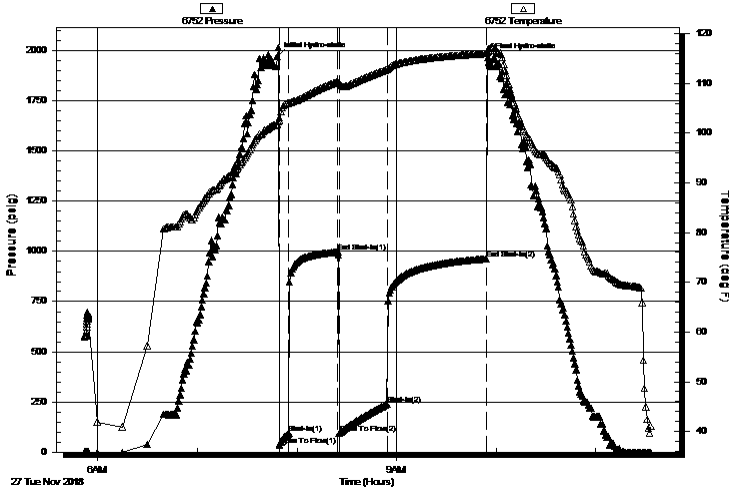
Press@RunDepth: 963.70 psig @ 3969.00 ft (KB) Capacity: psig
 Start Date: 2018.11.27 End Date: 2018.11.27 Last Calib.: 2018.11.27
 Start Time: 05:52:01 End Time: 11:33:02 Time On Btm: 2018.11.27 @ 07:48:02
 Time Off Btm: 2018.11.27 @ 09:55:02

TEST COMMENT: IFP 5 Minutes Blow built to 10"
 ISI 30 Minutes No blow back
 FFP 30 Minutes Blow built to BOB in 8 minutes Total build 37"
 FSI 60 Minutes No blow back

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1971.66	101.78	Initial Hydro-static
2	36.25	102.57	Open To Flow (1)
7	93.92	106.01	Shut-In(1)
37	996.27	110.28	End Shut-In(1)
38	95.59	110.05	Open To Flow (2)
67	240.33	112.81	Shut-In(2)
126	963.70	116.03	End Shut-In(2)
127	1963.77	116.71	Final Hydro-static

Pressure vs. Time



Recovery

Length (ft)	Description	Volume (bbl)
496.00	SMCW M 5% W 95%	5.86

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc.

31-14S-21W Trego,KS

88 Inverness Cir. E Unit F104
Englewood CO 80112+5514

CBCF #6-31

Job Ticket: 64565

DST#: 4

ATTN: Larry Friend

Test Start: 2018.11.27 @ 05:52:00

Tool Information

Drill Pipe:	Length: 3852.00 ft	Diameter: 3.80 inches	Volume: 54.03 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: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 54.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3967.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	34.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3950.00	
Hydraulic tool	5.00			3955.00	
Safety Joint	2.00			3957.00	
Top Packer	5.00			3962.00	
Packer	5.00			3967.00	22.00 Bottom Of Top Packer
Recorder	1.00	8365	Inside	3968.00	
Recorder	1.00	6752	Outside	3969.00	
Anchor	7.00			3976.00	
Bullnose	3.00			3979.00	12.00 Anchor Tool
Total Tool Length:	34.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc.

31-14S-21W Trego,KS

88 Inverness Cir. E Unit F104
Englewood CO 80112+5514

CBCF #6-31

Job Ticket: 64565

DST#: 4

ATTN: Larry Friend

Test Start: 2018.11.27 @ 05:52:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

38000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 14700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
496.00	SMCW M5% W 95%	5.864

Total Length: 496.00 ft Total Volume: 5.864 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

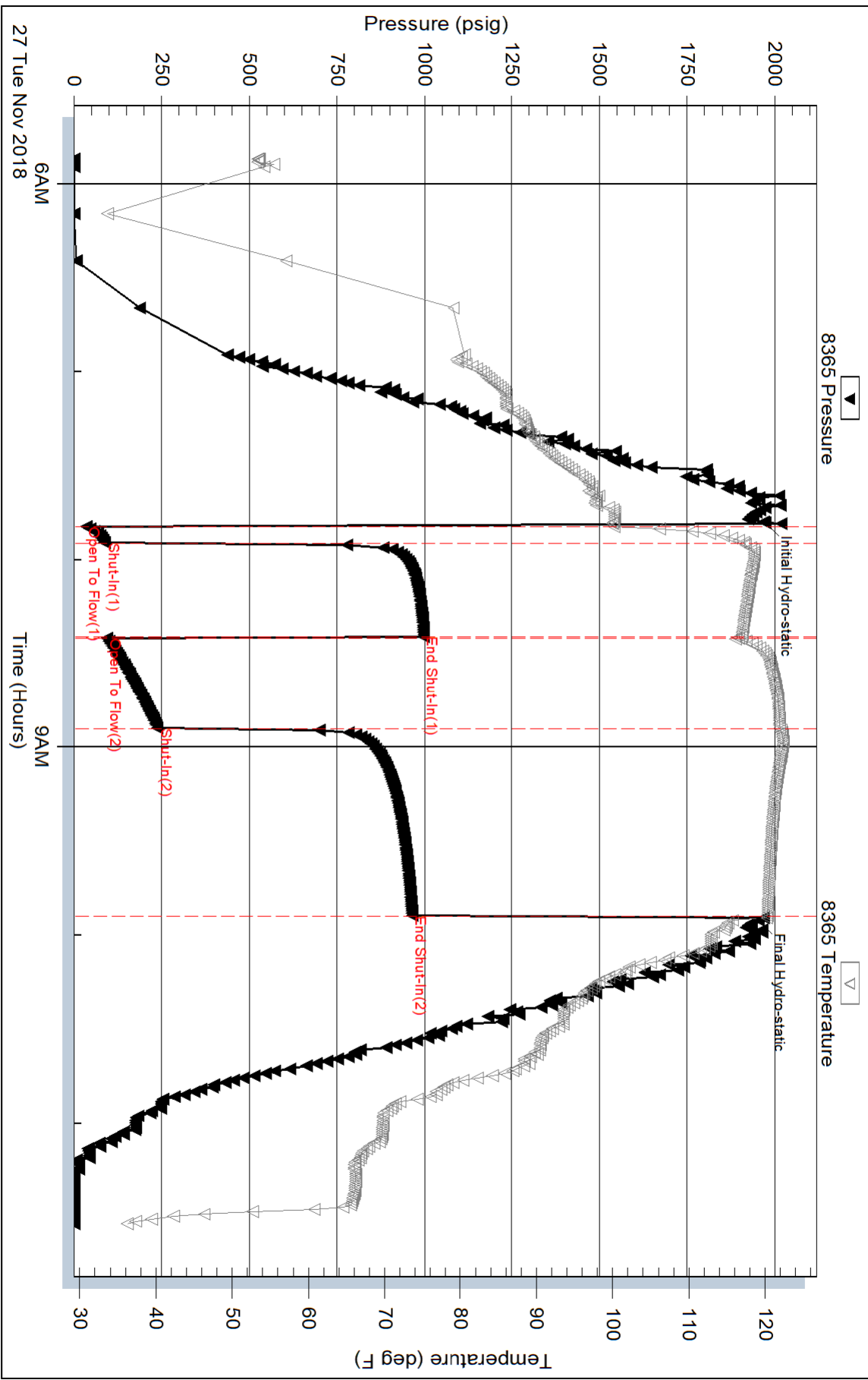
Serial #:

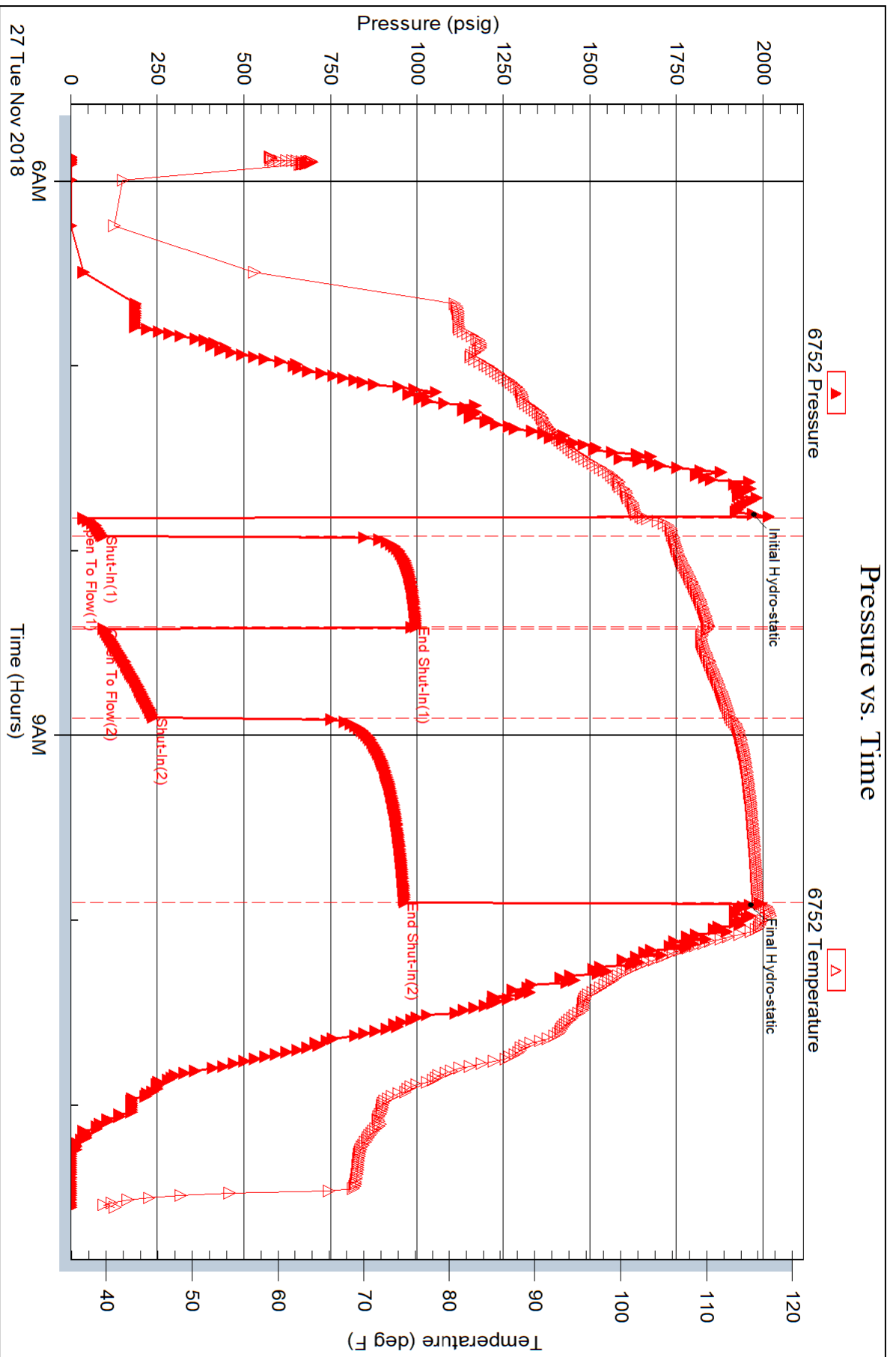
Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .343 ohms @ 37 deg.

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64562**

Well Name & No. CBCF #6-31 Test No. 1 Date 25 NOV 18
 Company Norstar Petroleum Inc. Elevation 2073 KB 2066 GL
 Address 48 Inverness Cir. E Unit F104 Englewood CO 80112+5574
 Co. Rep / Geo. Larry Friend Rig STP Rig 1
 Location: Sec. 31 Twp 14S Rge. 21W Co. Trego State KS

Interval Tested 3928-3937 Zone Tested Cherokee Sand
 Anchor Length 9 Drill Pipe Run 3792 Mud Wt. 9.0
 Top Packer Depth 3923 Drill Collars Run 120 Vis 55
 Bottom Packer Depth 3928 Wt. Pipe Run - WL 6.4
 Total Depth 3937 Chlorides 6200 ppm System LCM 2#

Blow Description I.F. Blow built to 10 inches
I.S.F. 1/2 inch blow back
F.F. Blow built to BOB 10 minutes / Total build 32 inches
F.S.F. 1 1/2 inch blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Muddy oil</u>		<u>60</u>		<u>40</u>
<u>50</u>	<u>Mud cut oil</u>		<u>90</u>		<u>10</u>
<u>170</u>	<u>Gas cut oil</u>	<u>10</u>	<u>70</u>		
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Rec Total BHT 120 Gravity 42 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1903 Test 1050 T-On Location 1:35 am
 (B) First Initial Flow 18 Jars T-Started 3:15 am
 (C) First Final Flow 44 Safety Joint 75 T-Open 5:44 am
 (D) Initial Shut-In 405 Circ Sub T-Pulled 7:53 am
 (E) Second Initial Flow 44 Hourly Standby T-Out 9:45 am
 (F) Second Final Flow 93 Mileage 12 62 Comments
 (G) Final Shut-In 399 Sampler
 (H) Final Hydrostatic 1891 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1187
 Accessibility MP/DST Disc't
 Sub Total 1187

Approved By Larry P. Friend Our Representative

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. **64563**

Well Name & No. CBCF #6-31 Test No. 2 Date 25 NOV 18
 Company Norsar Petroleum Inc Elevation 2073 KB 2066 GL
 Address 88 Inverness Cir. E. Unit F104 Englewood CO 80124 5574
 Co. Rep/Geo. Larry Friend Rig STP Rig 2
 Location: Sec. 31 Twp 14S Rge. 21W Co. Trego State KS

Interval Tested 3940-3950 Zone Tested Cherokee Sand
 Anchor Length 10 Drill Pipe Run 3826 Mud Wt. 9.0
 Top Packer Depth 3935 Drill Collars Run 120 Vis 44
 Bottom Packer Depth 3940 Wt. Pipe Run - WL 12.0
 Total Depth 3950 Chlorides 14600 ppm System LCM 2#

Blow Description I.F. 5 foot slide / Blow built to 3 1/2 inches
F.S.I. No blow back
F.F. Few bubbles & open the seal Flush tool no help
F.S.I. No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>6.5</u>	<u>Mud up show oil in tool</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 6.5 BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1970</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>4:06 pm</u>
(B) First Initial Flow <u>83</u>	<input type="checkbox"/> Jars _____	T-Started <u>10:12 pm</u>
(C) First Final Flow <u>66</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:07 am</u>
(D) Initial Shut-In <u>415</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1:42 am</u>
(E) Second Initial Flow <u>70</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>3:28 am</u>
(F) Second Final Flow <u>63</u>	<input checked="" type="checkbox"/> Mileage <u>62</u> <u>62</u>	Comments _____
(G) Final Shut-In <u>414</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1910</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1187.00</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1187</u>	

Approved By Larry Friend 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. **64564**

Well Name & No. CBCF #6-31 Test No. 3 Date 26 NOV 18
 Company Norstar Petroleum Inc Elevation 2073 KB 2066 GL
 Address 88 Inverness Cir E Unit F104 Englewood CO 80112+5374
 Co. Rep / Geo. Larry Friend Rig STR Rig 1
 Location: Sec. 31 Twp 14S Rge. 21W Co. Trego State KS

Interval Tested 3942-3971 Zone Tested Cherokee Sand
 Anchor Length 29 Drill Pipe Run 3824 Mud Wt. 9.3
 Top Packer Depth 3937 Drill Collars Run 120 Vis 46
 Bottom Packer Depth 3942 Wt. Pipe Run - WL 11.6
 Total Depth 3971 Chlorides 14100 ppm System LCM 2#

Blow Description I.F. Blow built to 1 1/2 inch
I.S.I. No blow back
F.F. Blow built to 2 3/4 inch
F.S.I. No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>Watery Mud</u>		<u>20</u>	<u>80</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 100 BHT 104 Gravity _____ API RW 1.657@ 37°F Chlorides 19,000 ppm
 (A) Initial Hydrostatic 1990 Test 1050 T-On Location 2:41 pm
 (B) First Initial Flow 18 Jars _____ T-Started 4:09 pm
 (C) First Final Flow 23 Safety Joint 75 T-Open 6:04 pm
 (D) Initial Shut-In 458 Circ Sub _____ T-Pulled 8:54 pm
 (E) Second Initial Flow 26 Hourly Standby _____ T-Out 10:34 pm
 (F) Second Final Flow 54 Mileage 67 62 Comments _____
 (G) Final Shut-In 448 Sampler _____
 (H) Final Hydrostatic 1966 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer 320
 Extra Packer _____ Extra Copies _____
 Initial Open 5 Extra Recorder _____ Sub Total 320
 Initial Shut-In 30 Day Standby _____ Total 1507
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1187

Approved By Larry Friend 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. **64565**

Well Name & No. CBCF #6-31 Test No. 4 Date 27 NOV 18
 Company Norstar Petroleum Inc Elevation 2073 KB 2066 GL
 Address 88 Inverness Cir E Unit F104 Englewood CO 80112+5514
 Co. Rep / Geo. Larry Friend Rig STP Rig 1
 Location: Sec. 31 Twp 14S Rge. 21W Co. Trego State K.S

Interval Tested 3967-3979 Zone Tested Cherokee Sand
 Anchor Length 12 Drill Pipe Run 3852 Mud Wt. 9.5
 Top Packer Depth 3962 Drill Collars Run 120 Vis 5-0
 Bottom Packer Depth 3967 Wt. Pipe Run — WL 11.2
 Total Depth 3979 Chlorides 14700 ppm System LCM 2#

Blow Description I.F. Blow built to 10 inches
I.S.I. No blow back
F.F. Blow built to BOB in 8 min / Total build 37 in
F.S.I. No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>496</u>	<u>Mud cut water</u>			<u>95</u>	<u>5</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 496 BHT 120 Gravity _____ API RW 343 @ 37° F Chlorides 38,000 ppm

(A) Initial Hydrostatic 1972 Test 1050 T-On Location 4:21 am
 (B) First Initial Flow 3.5 Jars _____ T-Started 5:52 am
 (C) First Final Flow 89 Safety Joint 75 T-Open 7:49 am
 (D) Initial Shut-In 997 Circ Sub _____ T-Pulled 9:54 am
 (E) Second Initial Flow 94 Hourly Standby _____ T-Out 11:33 am
 (F) Second Final Flow 239 Mileage 62 62 Comments _____
 (G) Final Shut-In 964 Sampler _____
 (H) Final Hydrostatic 1953 Straddle _____ Ruined Shale Packer _____

Initial Open 5 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 60 Day Standby _____ Total 1187.00
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1187

Approved By Larry P. Friend 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.

JOB LOG

SWIFT Services, Inc.

DATE 11-20-18 PAGE NO.

CUSTOMER Norstar Petro. WELL NO. 6-31 LEASE CBCF JOB TYPE Shallow Sort TICKET NO. 27427

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1530							On location 8 3/8 # TD - 225 Pipe 225
	1650	5	5			150		pump wtr spacer
		5	0			150		START CMT - 165 sks @ 14.7 PPG
		5	40			300		END CMT
		5	0			300		START Disp
	1745	5	13			400		END Disp & shut in
								JET Cellar
								CMT in Bottom of cellar - 5 sks CMT circulated
								Thanks David Zach & Isaac

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
NorStar Petroleum		6-31		CBCF		2-Stage LongString		27718	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0430								On location, Rig laying Down Drill Pipe 10.5# x 4 1/2" RTD - 4050', LTD - 4051' Total Pipe Run - Baffle - D.V. Tool - 70 @ 1476' Centralizers - 1, 2, 3, 4, 5, 6, 7, 9, 11, 69 Cement Baskets - 10, 70
	0820								Start Running Casing/Float Equip. Break Circulation on BTM.
	1000								
	1105	5	12				360		Pump Mudflush
		5	20				300		Pump KCL spacer
	1115	4					250		Start Cmt, 200 SKS EA-2 @ 15.5 ppg
	1130		48						Fin Cmt, Drop Plug/Washout P+L
	1140	5 1/2					250		Start Displacement, Last 23 bbl - Mud
		5 1/2	34				400		Catch Cmt
	1155	5	64				800 1400		Land Plug Lift PSI 800 Release, Dry Land PSI 1400
	1156								Drop D.V. Bomb, Wait
	1208						1200		Open D.V., 1200 PSI Circulate 1 hr
	1300	2	8						Pump 30 SKS to Rathole, No Minus hole
	1315	4	10				250		Pump Water Spacer
		5	10				300		Start Top Stage Cmt, Mix @ 11.2 ppg
		5	110				300		Cmt Circulating, Fin Cmt. Drop Plug
	1345	5							Start Displacement
		5	10				350		Catch Pressure
	1350	5	24				400 1200		Fin Displacement Lift PSI 400 Land PSI 1200
	1352								Release, Dry Washup, Rack up
	1415								Job Complete Thanks Jon, Austin, ISAAC.

WELL INFORMATION

Company: NORSTAR PETROLEUM INC.
 Address: 88 INVERNESS CIR E, UNIT F104
 ENGLEWOOD, CO 80112

Well Name: CBCF #6-31

Location: 1642' FNL & 802' FEL
 SECTION 31-T14S-R21W
 TREGO COUNTY, KANSAS

API: 15-195-23075-00-00
 Field: MADDIE

K. B. Elevation: 2073 Rotary Depth: 4050
 Ground Elevation: 2066 Log Depth: 4051

Spud Date: 11/20/2018 Drilling Completed: 11/27/2018

Completion: OIL WELL - CHEROKEE B SAND
 Surface Casing: 8 & 5/8" SET @ 225' Production Casing: 4.5" SET @ 4048'

Formation at TD: MISSISSIPPIAN
 Drilling Fluid Type: CHEMICAL

Rig Contractor: STP DRILLING, RIG #1
 Logger: ELI Logs Run: DI, CND w/PE, ML

Wellsite Geologist: LARRY P. FRIEND

FORMATION DEPTHS

COMPARED TO:
 CRAWFORD OIL CO.
 CBCF #2-31
 W2-NE 31-T14S-R21W

FORMATION DEPTHS	SAMPLE	LOG	
STONE CORRAL	1443 (+630)	1438 (+635)	+1
BS STONE CORRAL	1485 (+588)	1482 (+591)	-1
HEEBNER SHALE	3450 (-1377)	3448 (-1375)	-5
LANSING	3490 (-1417)	3488 (-1415)	-6
STARK SHALE	3675 (-1602)	3670 (-1597)	-7
BKC	3749 (-1676)	3746 (-1673)	-6
PAWNEE	3836 (-1763)	3835 (-1762)	-10
LABETTE SHALE	3895 (-1822)	3895 (-1822)	-11
FT. SCOTT	3914 (-1841)	3914 (-1841)	-11
CHEROKEE B SAND	3933 (-1860)	3936 (-1863)	-15
CHEROKEE E SAND	3960 (-1887)	3959 (-1886)	-13
KUTINA SAND	3973 (-1900)	3972 (-1899)	-8
MISS	3990 (-1917)	3992 (-1919)	+4

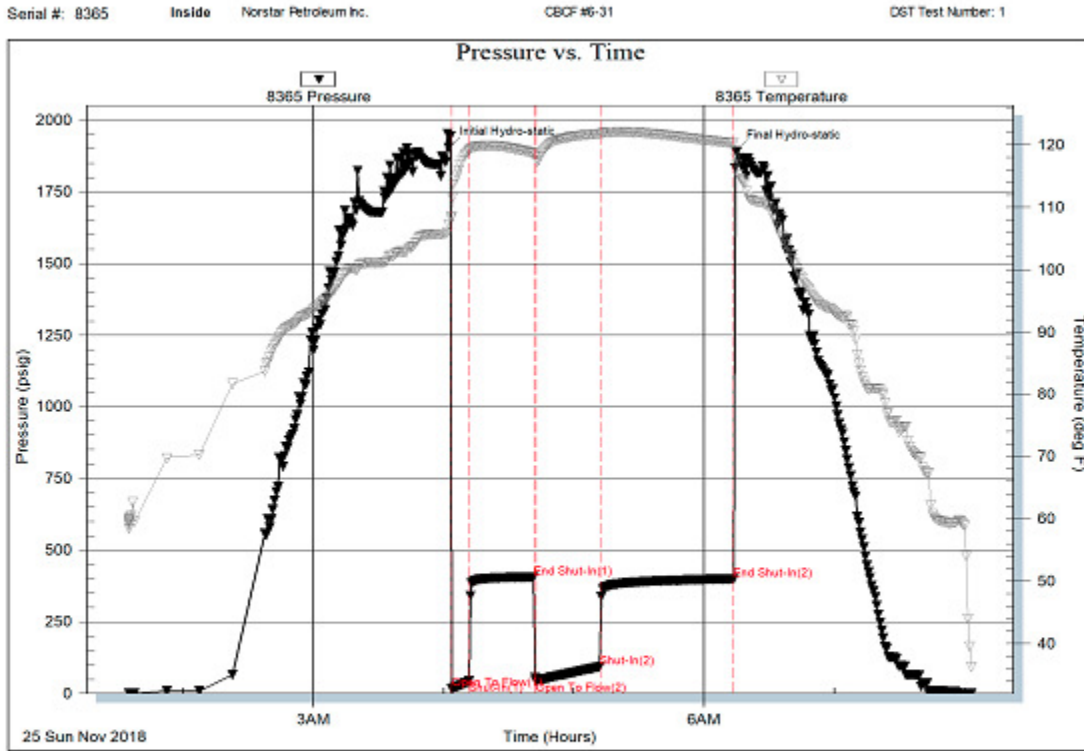
NOTES

DUE TO A POSITIVE DRILL STEM TEST AND ALSO LOG EVALUATION, IT WAS DECIDED TO RUN 4.5" CASING AND PRODUCE THE CHEROKEE B SAND.
LARRY FRIEND

DRILLSTEM TESTS

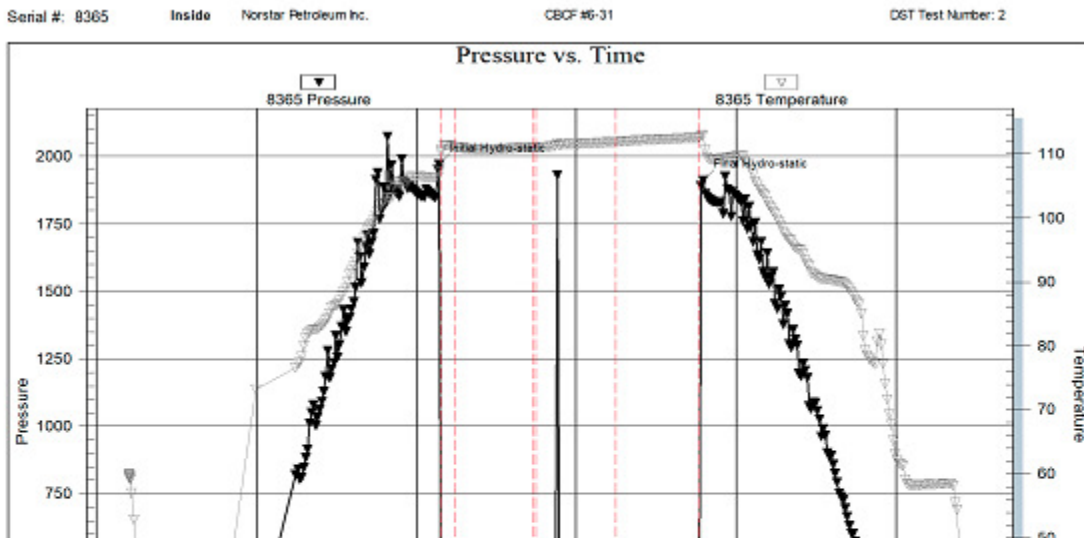
No	Interval	Formation
1	3928-3937	CHEROKEE B SAND
2	3940-3950	CHEROKEE SAND
3	3942-3971	CHEROKEE E SAND
4	3967-3979	KUTINA SAND

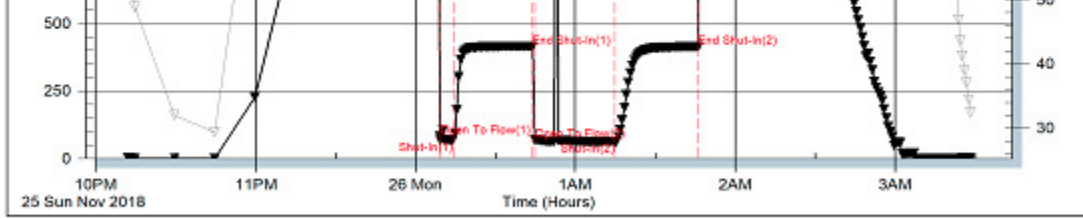
DST #1 CHART - CHEROKEE "B"



Tribble Testing, Inc Ref. No. 64562 Printed: 2018.11.25 @ 11:41:04

DST #2 CHART - CHEROKEE SAND





Tribble Testing, Inc

Ref. No. 64563

Printed: 2018.11.26 @ 07:18:00

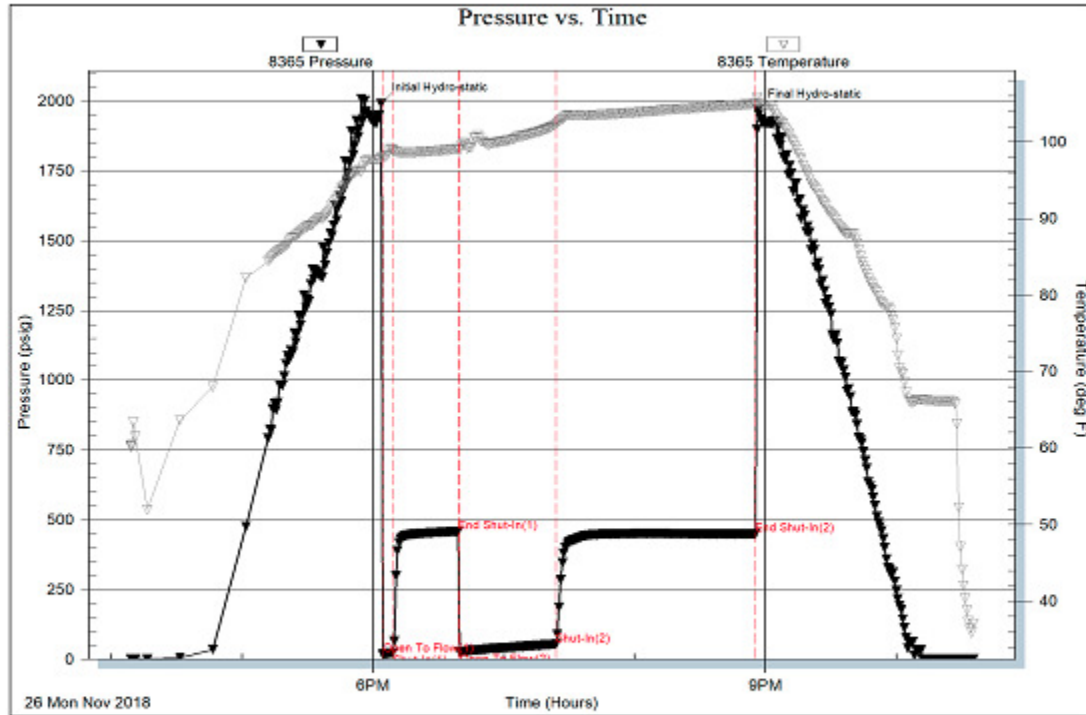
DST #3 CHART - CHEROKEE E

Serial #: 8365

Inside Norstar Petroleum Inc.

CBCF #6-31

DST Test Number: 3



Tribble Testing, Inc

Ref. No. 64564

Printed: 2018.11.27 @ 07:13:01

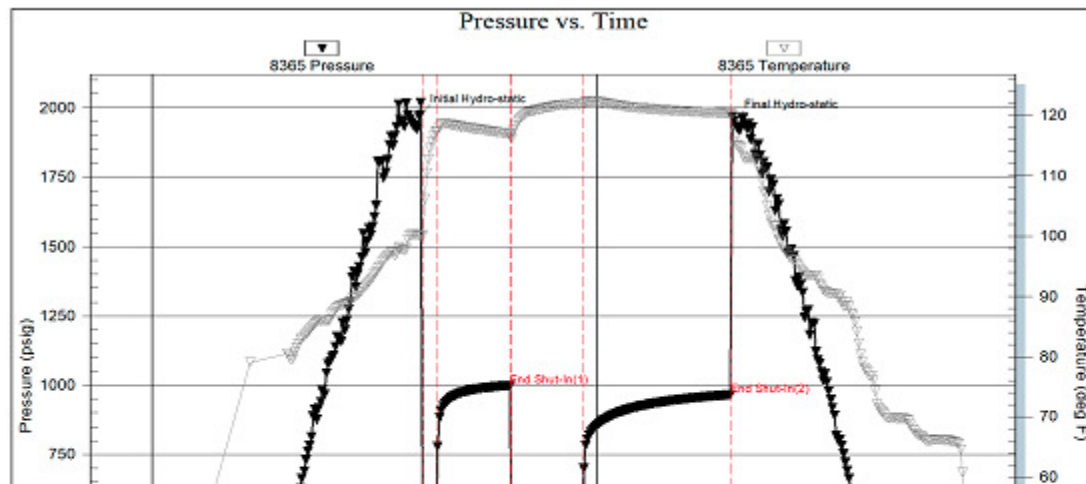
DST #4 CHART - KUTINA SAND

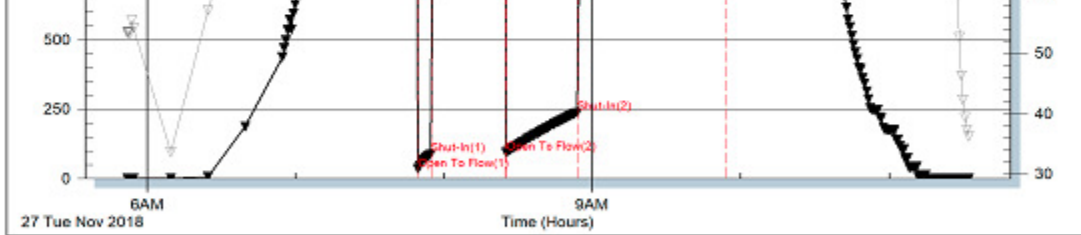
Serial #: 8365

Inside Norstar Petroleum Inc.

CBCF #6-31

DST Test Number: 4





Tribble Testing, Inc

Ref. No: 64565

Printed: 2018.11.27 @ 12:36:27

ROCK TYPES



ACCESSORIES

MINERAL

- Carbonaceous Flakes
- ▲ Chert, dark
- ∟ Dolomitic
- △ Chert White

FOSSIL

- Oolites

OTHER SYMBOLS

OIL SHOWS

- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- D Dead Oil Stn
- Fluorescence

INTERVALS

- Core
- DST

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

Curve Track #01		Depth Intervals Cored Interval DST Interval	Interpreted Lithology	Oil Shows	Geological Descriptions	Comment
ROP (min/ft)	ROP (min/ft)					
0	20					DEVIATION SURVEYS: .75 @ 225' .75 @ 1473' .75 @ 3242' 1.0 @ 4050
1:240 Imperial						
-- STONE CORRAL -- 1443 (+630)		3150				

-- BASE --
1485 (+588)

3200

ROP (min/ft)

20 3250

3300

3350

CONNECTIONS PULLING TITE SO
MUDED UP EARLY AT 3192.

60: LS, TAN-BRN, FOSS, PR-GD XLN POR; TR. BRN CHERT; NS

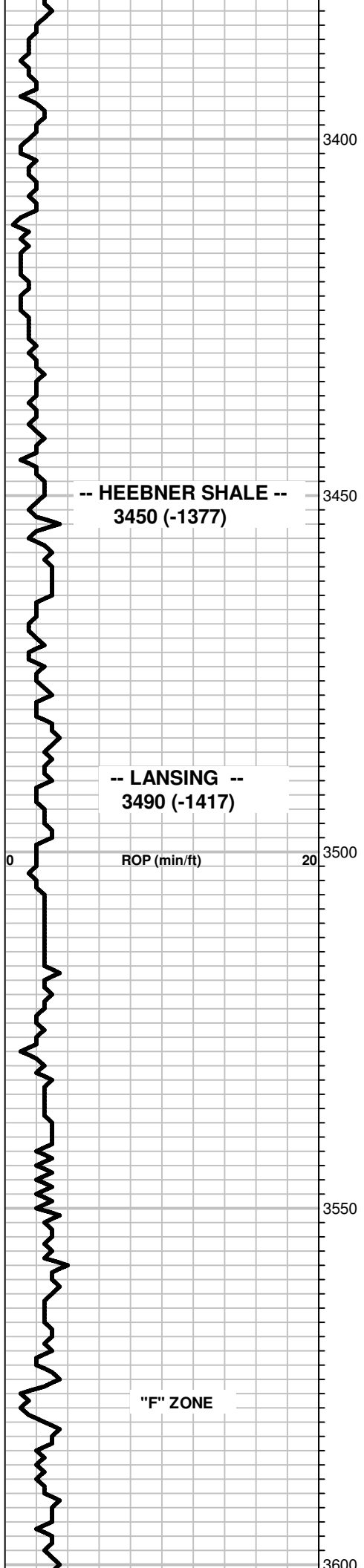
SAMPLES START AT 3350 FT.

70: LS, TAN, VFXLN, DSE

80: LS, GRY, PR. POR; TR. GRY CHT; TR GRY SILTSTN; NS

90: LS, GRY-BRN, VF-FXLN, PR POR, NS

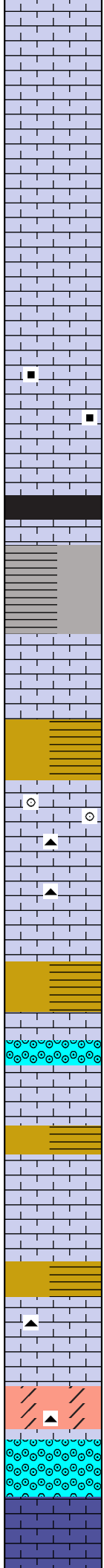
100: SHALE, DK GRY - BLK; LS, TAN-BRN



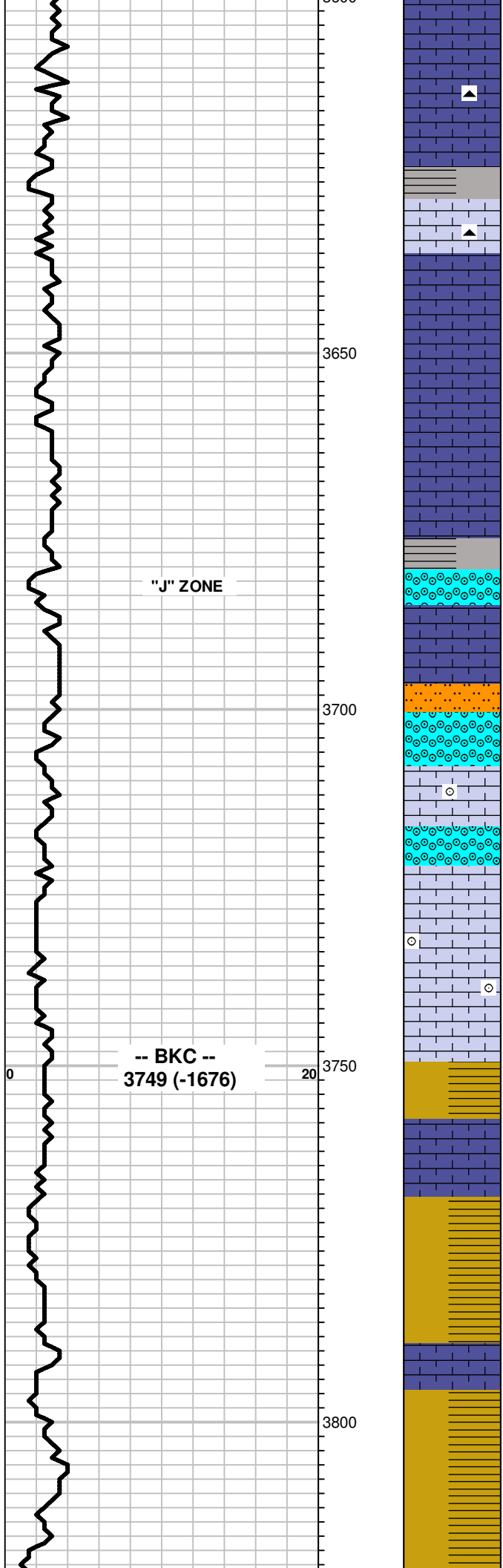
-- HEEBNER SHALE --
3450 (-1377)

-- LANSING --
3490 (-1417)

"F" ZONE



- 100: SHALE, DK GRN - BRN, LS, TAN-BRN, FOSS, PR - TR. FR XLN POR; NS
- 10: LS, DK BRN, VFXLN DSE TO SOME WEATHERED, SLI. CHLKY; NS
- 20: LS, TAN, FXLN, FOSS W/ FR XLN POR; NS, NF
- 30: LS, TAN-BRN, SLI. - V. FOSS, PR. POR, NS
- 40: TR LS, BRN, FOSS, CALCITIC, SM CHLKY, PR - FR XLN POR; NS, NF
- 50: TR LS AA, FOSS / CALCITIC W/ FR-GD XLN POR; NS
- 60: LS, BRN, FXLN, FOSS, PR-FR XLN POR, SOME WEATHERED CHLKY; SOME BRN SCAT. CARBONACEOUS MATERIAL, NO SHOW OIL
- 70: LS, BRN, FOSS AA & TR BLK CABONACEOUS SHALE
- 80: TR SHALE, GRY-BRN & FOSS LS AA; NS
- 90: SOFT GRY - GRN SILTSTN; LS, TAN-BRN, SLI. FOSS, PR-FR XLN POR; NS
- 100: LS, CRN-TAN, VFXLN, MOSTLY PR POR.
- 10: MAROON & GRY SHALE
- 20: LS, TAN, V. OOLITIC (REMNANT OOLITES), PR-FR XLN POR; CHERT, TAN-GRY, SHP; NS
- 30: LS, CRM-TAN, FXLN, FOSS, CALCITIC AA W/ PR-FR. XLN POR; CHT AA; NS
- 40: SHALE, GRY, MAROON, SOME LMY.
- 50: TR LS, CRM-TAN, FXLN, V. OOLITIC, PR-FR XLN POR; NS
- 60: TR LS, TAN, FOSS, CALCITIC, FXLN, PR-FR XLN POR & LS, BRN DSE; NS
- 70: TR LS, CRM, CHLKY W/ SPTY BRN SAT STN; 1 PC LS, VFXLN, DSE W/ TR PR. PPT POR, TR DK HVY FO & SPTY BRN SAT STN, PR SHOW
- 80: TR LS AA W/ SAME SHOW; CP PCS CHT, CRM, W/ BRT FLUOR, NO CUT; SLI. ODOR ALSO TR. BLK SHALE & GRY SILTSTN
- 90: DOLOMITE, TAN, FXLN, SUCROSIC W/ FR. XLN POR; TR. TAN CHERT, SHARP; NS
- 100: LS, TAN, V. OOLITIC W/ FR. XLN & TR. OOLICASTIC POR; NS
- 10: LS, GRY-BRN, VFXLN, DSE; NS



20: LS, AS ABOVE; NS

30: LS, AA, NO POR; TR. CHERT, GRY; NS

40: LS, AA AND SHALE, GRY, BRN, BLK.

50: TR LS TAN, FOSS, CALCITIC W/ PR - TR FR. XLN POR; CHT GRY - BRN; NS

60: LS, GRY-BRN VFXLN, DSE; TR. SHALE GRY - BLK; NS

70: SHALE, GRY; LS, GRY-BRN, DSE; NS

80: LS, BRN, VFXLN, DSE; NS

90: LS, AA; SHALE RED & TR, GRY STICKY SHALE.

100: LS, CRM-TAN, FXLN, OOLITIC W/ FR-GD OOLIC. POR; NS, NF

10: LS, GRY-BRN, DSE; TR GRY-GRN SILTSTN

20: LS, CRM-TAN, FXLN, V. OOLITIC, SLI. CALCITE FILL, PR-FR XLN POR & TR. PR. OOLIC. POR; NS, NF

30: LS, GRY-BRN, VF-FXLN, SOME OOLITIC W/ PR. XLN POR; NS

40: LS, TAN-BRN, FXLN, SOME OOLITIC, PR. VIS. POR; NS

50 & 60: LS, TAN-BRN, VF-FXLN, SLI. FOSS, TR. OOLITIC, PR-FR. XLN POR; NS

70 & 80: SHALE, RED, GRY, GRN, BLK.

90: LS, TAN-BRN, VFXLN, DSE; SHALE MAROON, GRY; NS

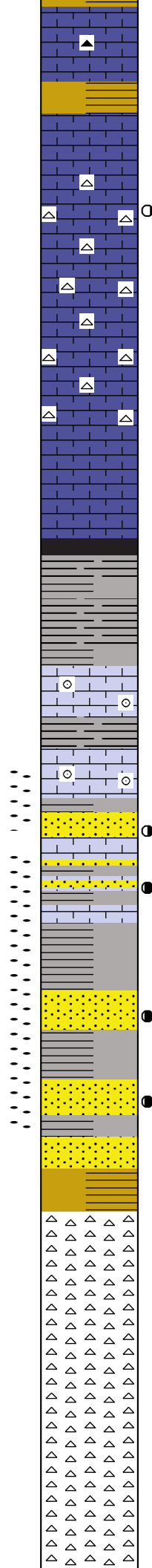
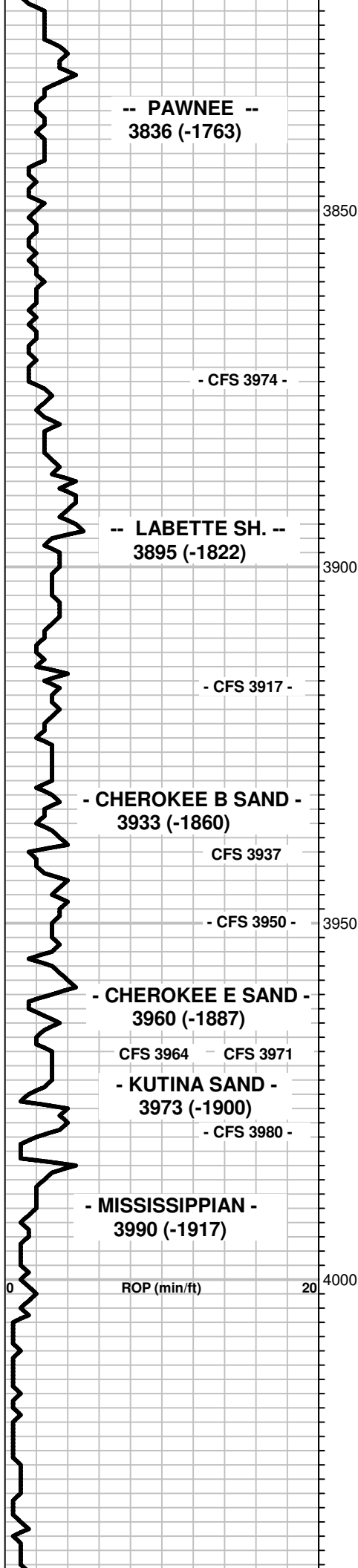
100: SHALE, GRY, MAROON, TR. GRN

10: LS, GRY-BRN, DSE; SHALE VARY COLORED; TR. GRY LMY SILTSTN.

20: SHALE VARY COLORED, LS, GRY-BRN, VFXLN, DSE; NS

30: MOSTLY VARY COLORED SHALE, SOME STICKY.

MUD @ 3770: WT: 9.0, VIS 55
 FILT 6.4, CHLOR 6,200, LCM 2



40 & 50: LS, BRN, VFXLN, DSE TO SOME WEATHERED CRM; SHALE AS ABV; TR. GRY-BRN CHT; NS

60: LS, TAN-BRN, VFXLN, DSE; TR. BRN LMY SILTSTN, TITE, NS

70: LS, CRM-TAN, PR-FR XLN POR, SM SLI. CHKLY; AND MUCH CHERT (40%), CRM-GRY SHP, SEV. PCS SLI. WEATH W/ PR. POROSITY ON EDGES, PR. SPTY LT SAT. STN, VSSFO SPTY BRT FLUR, FR STRING CUT, FR. OD

74: 30": LS, TAN, FXLN, HD TO SOME W/ FR. XLN. POR; MUCH CHERT (40%), CRM-GRY, SHP; NS

100: LS, BRN, VF-FXLN, DSE, SOME SLI. CHTY TO SOME CHERT, CRM-BRN, SHP; NS, NF

10: SHALE, BLK; LS, TAN. FXLN W/ REMNANT FOSSILS, PR. XLN. POR; NS

17: SHALE, BLK & SM. AMT. GRY SHLY SILTSTN.

40": SOFT GRY STICKY SHALE; TR. PYRITE

37: SHALE, GRY, BLK; TR. PYRITE

3937: 20": LS, BRN, FXLN, REMNANT OOLITES, PR. XLN POR; SHALE BLK; NS

40": TR SST, MOSTLY VF, TR FN & MD GRNS, FR WELL SRT, CLR, PR-GD POR, VSS LT FO LT YEL FLR, GD CRSH CUT, NO STN, S ODOR

3950 CIRC: ONLY TR SST, VF-F-MD GRND, PRLY SRT, CLR- TR. FROST, SBRD-SBANG, FR-GD POR, VS-GS LT FO, TR BRN SPTY STN, FR-GD FLUSH CUT, NO ODOR

3964 CIRC: SST, VF-FN, FR WELL SRT, CLR-FRSTED, SBRD, FR-GD POR, GSFO, MUCH DD BLK RESID OIL, SM W/ GD EVEN DK BRN SAT STN, NO FLUOR, GD CRUSH CUT, NO ODOR

3971 CIRC: SST, VF-FN, FRLLY WELL SRT, SBAG-SBRD, CLR, PR-FR POR, GSFO, DK BN SAT STN, NO FLR, GD CRUSH CUT, NO ODOR

4030: TR SST, VF, WELL SORT, CLR, FR-GD POR & TR SST, VF-MD, PRLY SRT, TITE; NS

4040: CHERT, CRM-TAN, TR ORG, SHARP TO TR SLI. WEATH.; NS

50: CHERT, CRM, TAN, GRY, SHARP; NS

DST #1: 3938-3937
TIMES: 8-30-30-60
IF: BLOW BUILT TO 10"
ISI: .5" BLOWBACK
FF: BLOW BOB IN 10"
32" TOTAL BUILD IN DIESEL
FSI: 1.5" BLOWBACK REC:
170' GCO (10% G, 90%O)
50' MCO (90%O, 10%M)
10' MO (60%O, 40%M)
IFP: 18-44, FFP: 44-93#
SIP: 405-399#, TEMP: 120
SEE CHART ABOVE

PRE-DST SHORT TRIP @ 3874 UP TO 800'. TOOK ON SOME WATER BELIEVED TO BE FROM CEDAR HILLS SAND.

MUD @ 3950: WT 9.0, VIS 44, FILT 12.0, LCM 2, CHLOR: 14,600

COMING OUT FOR DST 2 WELL STARTED FLOWING WATER. WENT BACK DOWN TO ANHY, MIXED WEIGHT MUD TO SHUT OFF WTR, THEN RAN TEST.

DST#2: 3940-3950
TIMES: 5-30-30-30
5' SLIDE TO SOLID BTM
IF: BLOW BUILT TO 3.5"
FF: FEW BUBBS, THEN DEAD FLUSHED TOOL- NO HELP NO BLOWBACKS
REC: 65' MUD W/ SHOW OIL IN TOOL
IFP: 83-66#, FFP: 70-63#
SIP: 415-414#, TEMP: 112
SEE CHART ABOVE

ALSO SST, VF-CSE, PRLY SRT, CLR-FRST, GSFO, F-GD FLSH CUT, NO ODOR
CFS 3964

80 CIRC: TR. SST, VF, WELL SRT, SBANG, CLR, TITE, PR-FR POR, VGSFO, TR BLDG OIL, GD STN, NO FLUOR, GD CRUSH CUT, NO ODOR

MIXED MORE WT MUD BEFORE STARTING OUT FOR DST #3

DST #3: 3942-3971
TIMES: 5-30-45-90
IF: BLOW BUILT TO 1.5"
FF: BLOW BUILT TO 2.75"
NO BLOWBACKS
REC: 100' WATERY MUD, NS (20%W, 80%M)
WTR CHLOR: 19,000 PPM
MUD SYSTEM: 14,100 PPM
IFP: 18-23, FFP: 26-54#
SIP: 458-448#, TEMP: 104
SEE CHART ABOVE



RTD 4050
LTD 4051

4050

△ △ △ △ △
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△ △ △ △ △
△ △ △ △ △
△ △ △ △ △

50 CIRC: CHERT AS ABOVE; TR. CRM-TAN
FXLN, CHTY DOLOMITE, HD, PR. POR; NS, NF

**MUD @ 3979: WT 9.5, VIS 50, FILT
11.2, CHLOR: 14,700**

DST #4: 3967-3979
TIMES: 5-30-30-60
IF: BLOW BUILT TO 10"
FF: BLOW BUILT BOB IN 8"
TOTAL BUILD = 37" IN
DIESEL
REC: 496' MCW (95%W, 5%M)
NO SHOW OIL
IFP: 35-89#, FFP: 94-239#
SIP: 997-964#, TEMP: 120
SEE CHART ABOVE



CHARGE TO: Nor Star Petroleum, Inc
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 27718
 PAGE 1 OF 2

SERVICE LOCATIONS
 1. Hayes, KS WELL/PROJECT NO. 6-31 LEASE CBCF COUNTY/PARISH Trego STATE KS CITY
 2. Ness City, KS CONTRACTOR 57D Drilling RIG NAME/NO. CT SHIPPED VIA CT DELIVERED TO Location DATE 11/28/18 OWNER
 3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE 2 Stage Long String WELL PERMIT NO.
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					MILEAGE #113	30	mi				5.00	150.00
579					Pump Charge - Two Stage Long String	1	EA				1800.00	1800.00
290					D-Air	5	gal				42.00	210.00
281					Mud Flush	500	gal				1.50	750.00
221					Liquid KCL	2	gal				25.00	50.00
407					Insert Foot Shoe w/Auto Fill	1	EA				300.00	300.00
402					Centralizer	10	EA				60.00	600.00
403					Cement Basket	2	EA				250.00	500.00
408					D.V. Tool + Plug Set	1	EA				2950.00	2950.00
413					Rate Wall Scraper	10	EA				35.00	350.00
417					D.V. Latch Down Plug + Baffle	1	EA				200.00	200.00
419					Rotating Head Rental	1	EA				200.00	200.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO
 WE UNDERSTOOD AND MET YOUR NEEDS? YES NO
 OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO
 ARE YOU SATISFIED WITH OUR SERVICE? YES NO

APPROVAL: [Signature] DATE: 11/28/18

TOTAL 18298.17

Thank You!

