





1164137

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  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Norstar Petroleum, Inc.
Well Name	Wieland 1-13
Doc ID	1164137

Tops

Name	Top	Datum
Anhydrite	3532	+499
Stotler	3661	-630
Topeka	3847	-816
Heebner	4008	-977
Toronto	4030	-999
Lansing	4045	-1014
Marmaton	4373	-1342
Pawnee	4457	-1426
Ft. Scott	4493	-1462
Cherokee	4516	-1485
Johnson	4591	-1560
Mississippi	4640	-1609

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 21, 2013

Brady Pfeiffer  
Norstar Petroleum, Inc.  
88 INVERNESS CIR E. UNIT F104  
ENGLEWOOD, CO 80112-5514

Re: ACO1  
API 15-109-21200-00-00  
Wieland 1-13  
SW/4 Sec.13-11S-32W  
Logan County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Brady Pfeiffer



**CONSOLIDATED**  
Oil Well Services, LLC

261981

TICKET NUMBER 44334  
LOCATION OAKLEY KS.  
FOREMAN DAMON MILLER

PO Box 884, Chanute, KS 66720  
620-431-9219 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																
9-4-13	5734	WEILAND 1-13	13	11	32W	LOGAN																
CUSTOMER NORSTAR			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>399</td> <td>JORDON</td> <td></td> <td></td> </tr> <tr> <td>460</td> <td>JEREMY</td> <td></td> <td></td> </tr> <tr> <td>RYDER</td> <td>DUSTIN</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	399	JORDON			460	JEREMY			RYDER	DUSTIN		
TRUCK #	DRIVER	TRUCK #					DRIVER															
399	JORDON																					
460	JEREMY																					
RYDER	DUSTIN																					
MAILING ADDRESS																						
CITY			STATE																			
ZIP CODE			OAKLEY 5.2 MI 1/2E. W INTO																			

JOB TYPE SURFACE HOLE SIZE 12 1/4 HOLE DEPTH 306 CASING SIZE & WEIGHT 8 3/8  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.7 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
 DISPLACEMENT 18 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: SAFETY MEETING RIG UP ON VAL#4 CIRCULATE HOLE MIX 200SKS  
CLASS A Com 370 CALCIUM 2% GEL DISPLACED W/WATER 18 BAR SHUT  
IN WASHED UP @ RIGGED DOWN

CEMENT DID CIRCULATE APPROX 5 BAR  
TO THE PIT.

THANK YOU DAMON & CREW

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1150.00	1150.00 ✓
5406	5	MILEAGE	5.25	26.25 ✓
5407	9.4	60W MILEAGE DELIVERY (MIN)	430.00	430.00 ✓
11045	2005KS	Com CLASS A.	18.55	3710.00 ✓
1102	564#	CALCIUM CHLORIDE	.94	530.16 ✓
1118A	376#	BETONITE	.27	101.52 ✓
				5947.93
				594.79 ✓
				5353.14
			SALES TAX	298.94 ✓
			ESTIMATED TOTAL	5652.08 ✓

Ravin 3737

AUTHORIZATION \_\_\_\_\_

TITLE Damon Miller DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

**JOB LOG**

**SWIFT Services, Inc.**

DATE 9-14-13 PAGE NO.

CUSTOMER Norstar Pet WELL NO. 1-13 LEASE Wieland JOB TYPE 5 1/2 Longstring TICKET NO. 24495

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0150							on location
								TD 4700 SJ 25.25
								TP 4703 Insert 4678
								PC Top 52 2559' 5 1/2 x 15.5"
								Centralizers 1,3,5,7,9,11,13,15,17,19,51,53
								Basket 13,52
	0300							Start Pipe
	0530							Drop Ball Break circulation Rotate
	0700		7/5					wait for Cat to Get casing crew out
								Plug RH 30cks MH 20cks
	0705	5	12		✓		300	Start Mod Flush
		5	20		✓		300	Start KCL Flush
	0715	5	36		✓		300	Start Cement
								Drop Plug
	0726							wash out Pump + Lines
	0728	6.5			✓		300	Start Displacement
		6.5	70		✓		300	Stop Rotating
	0745	6.5	111.3		✓		<del>300</del> 1500	land Plug
								Release Dry
								wash up Back Up
	0830							Job Complete
								Thank You
								Sust, Brian, Doug

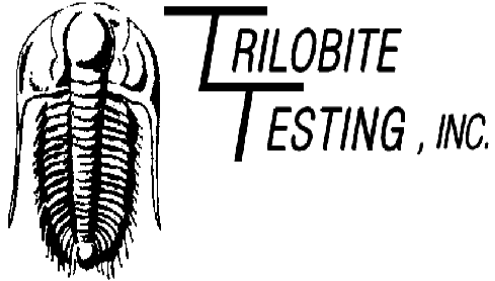
**JOB LOG**

**SWIFT Services, Inc.**

DATE 24 SEP 13 PAGE NO.

CUSTOMER NORSTAR PET. WELL NO. LEASE WIELAND 1-13 JOB TYPE CEMENT PORT COLLAR TICKET NO. 25702

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1000							ON LOCATION
								PORT COLLAR @ <del>2530</del> ' 2558'
	1240						1000	TEST - HELD
	1244							OPEN PORT COLLAR
	1247	4 3	116 14	✓ ✓		400		MIX 2/D 5x 5MD DISPLACE CEMENT CIRCULATE CEMENT TO SURFACE 20 SX
	1319						1000	CLOSE PORT COLLAR - TEST - HELD
	1325							RUN 4 JTS
	1329	4	25	✓		300		REVERSE CLEAN
	1340							WASH TRUCK
	<del>1340</del>							JOB COMPLETE
								THANKS #115
								JASON JEFF TRUB.



## DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc**

88 Inverness Cir E Unit F104  
Englewood, CO 80112

ATTN: Bob Elder

### **Wieland #1-13**

### **13-11s-32w Logan,KS**

Start Date: 2013.09.09 @ 10:20:40

End Date: 2013.09.09 @ 17:15:19

Job Ticket #: 52849                      DST #: 1

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

Printed: 2013.09.13 @ 09:21:41





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**13-11s-32w Logan, KS**

**Wieland #1-13**

Job Ticket: 52849

**DST#: 1**

Test Start: 2013.09.09 @ 10:20:40

## GENERAL INFORMATION:

Formation: **B-C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:29:35  
 Time Test Ended: 17:15:19  
 Interval: **4060.00 ft (KB) To 4100.00 ft (KB) (TVD)**  
 Total Depth: 4100.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 3031.00 ft (KB)  
 3022.00 ft (CF)  
 KB to GR/CF: 9.00 ft

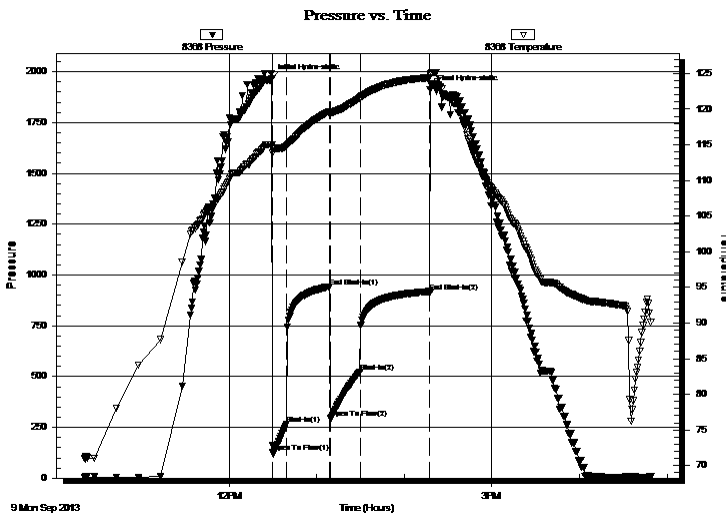
**Serial #: 8368**

**Outside**

Press @ Run Depth: 521.74 psig @ 4061.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.09.09 End Date: 2013.09.09 Last Calib.: 2013.09.09  
 Start Time: 10:20:40 End Time: 16:49:19 Time On Btm: 2013.09.09 @ 12:29:05  
 Time Off Btm: 2013.09.09 @ 14:17:35

TEST COMMENT: B.O.B. in 2 1/2 min.  
 No return  
 B.O.B. in 4 min.  
 No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1966.42	114.98	Initial Hydro-static
1	127.01	114.41	Open To Flow (1)
10	266.55	114.78	Shut-In(1)
40	942.19	119.64	End Shut-In(1)
40	295.15	119.38	Open To Flow (2)
61	521.74	121.56	Shut-In(2)
108	918.22	124.40	End Shut-In(2)
109	1912.71	124.82	Final Hydro-static

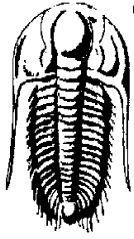
## Recovery

Length (ft)	Description	Volume (bbl)
125.00	m c w w/oil spots 50m 50w	1.75
300.00	s m c w 20m 80w	4.21
660.00	water 100w	9.26

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**13-11s-32w Logan,KS**  
**Wieland #1-13**  
Job Ticket: 52849 **DST#: 1**  
Test Start: 2013.09.09 @ 10:20:40

## Tool Information

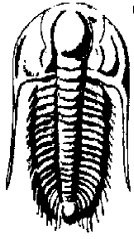
Drill Pipe:	Length: 4065.00 ft	Diameter: 3.80 inches	Volume: 57.02 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 57.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4060.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4033.00	
Shut In Tool	5.00			4038.00	
Hydraulic tool	5.00			4043.00	
Jars	5.00			4048.00	
Safety Joint	3.00			4051.00	
Packer	5.00			4056.00	28.00 Bottom Of Top Packer
Packer	4.00			4060.00	
Stubb	1.00			4061.00	
Recorder	0.00	6667	Inside	4061.00	
Recorder	0.00	8368	Outside	4061.00	
Perforations	34.00			4095.00	
Bullnose	5.00			4100.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 68.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Norstar Petroleum Inc

**13-11s-32w Logan,KS**

88 Inverness Cir E Unit F104  
Englewood, CO 80112

**Wieland #1-13**

Job Ticket: 52849

**DST#: 1**

ATTN: Bob Elder

Test Start: 2013.09.09 @ 10:20:40

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.71 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	m c w /oil spots 50m 50w	1.753
300.00	s m c w 20m 80w	4.208
660.00	water 100w	9.258

Total Length: 1085.00 ft      Total Volume: 15.219 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

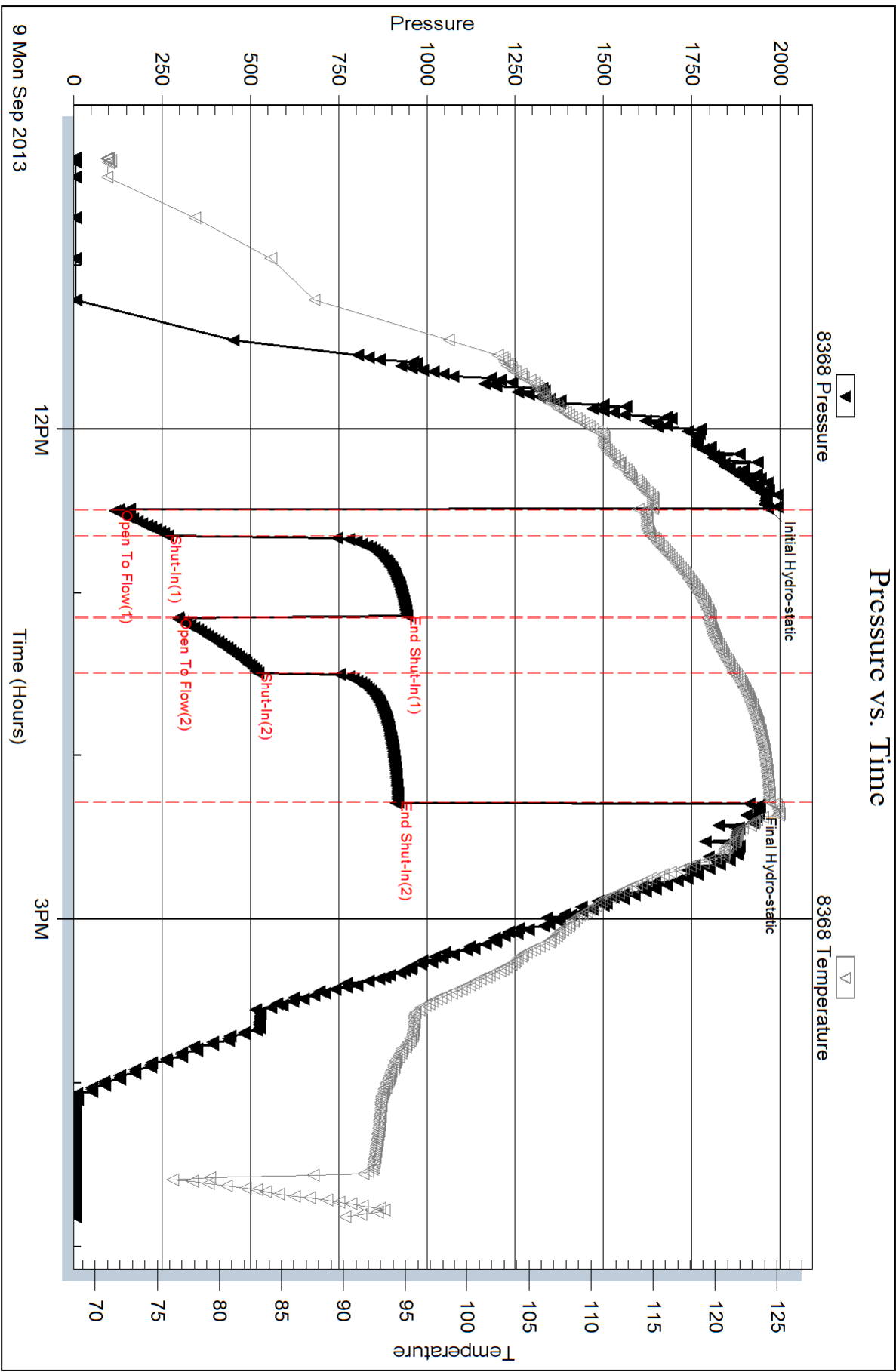
Recovery Comments: rw .130 @ 75\* = 50,000 chlor

Serial #: 8368

Outside Norstar Petroleum Inc

Welland #1-13

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 52849

Printed: 2013.09.13 @ 09:21:43

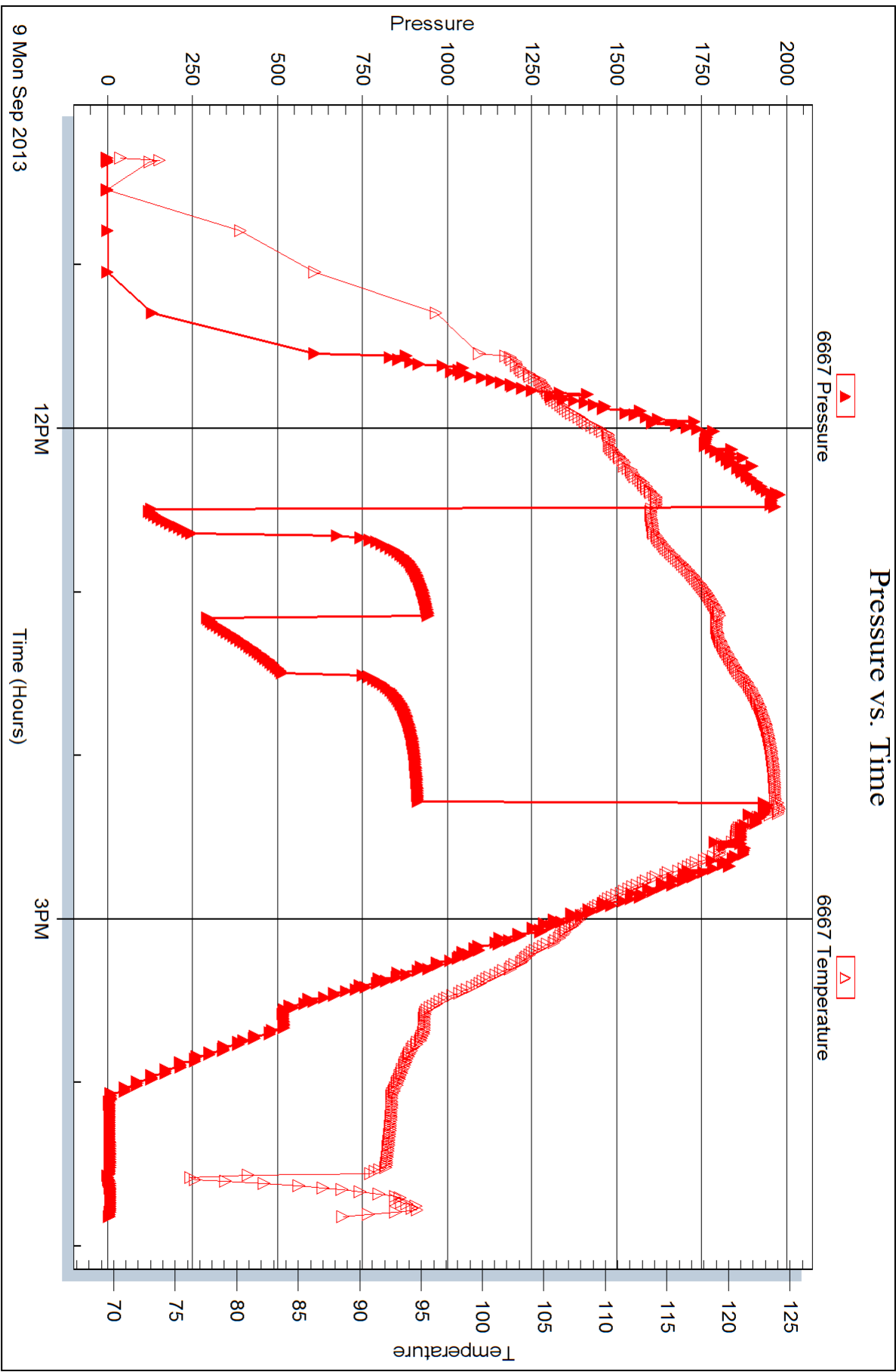
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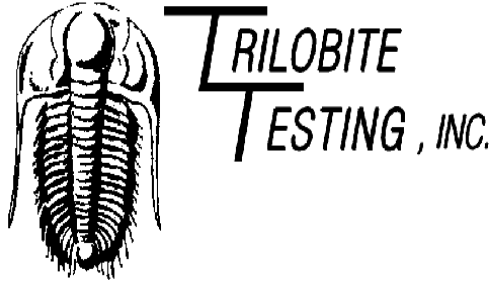
Inside

Norstar Petroleum Inc

Welland #1-13

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc**

88 Inverness Cir E Unit F104  
Englewood, CO 80112

ATTN: Bob Elder

### **Wieland #1-13**

#### **13-11s-32w Logan,KS**

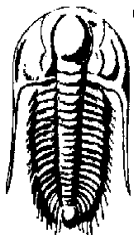
Start Date: 2013.09.10 @ 01:00:59

End Date: 2013.09.10 @ 08:05:23

Job Ticket #: 52850                      DST #: 2

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

Printed: 2013.09.13 @ 09:21:04



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

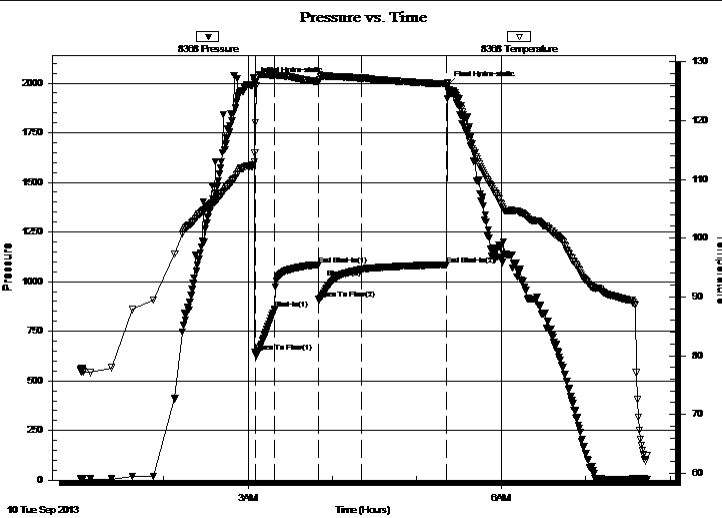
**13-11s-32w Logan,KS**  
**Wieland #1-13**  
Job Ticket: 52850      **DST#: 2**  
Test Start: 2013.09.10 @ 01:00:59

## GENERAL INFORMATION:

Formation: **E-F**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 03:04:54  
Time Test Ended: 08:05:23  
Interval: **4108.00 ft (KB) To 4134.00 ft (KB) (TVD)**  
Total Depth: 4134.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 3031.00 ft (KB)  
3022.00 ft (CF)  
KB to GR/CF: 9.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Shane McBride  
Unit No: 55

**Serial #: 8368      Outside**  
Press @ Run Depth: 1062.84 psig @ 4109.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.09.10      End Date: 2013.09.10      Last Calib.: 2013.09.10  
Start Time: 01:00:59      End Time: 07:43:23      Time On Btm: 2013.09.10 @ 03:04:24  
Time Off Btm: 2013.09.10 @ 05:21:54

TEST COMMENT: B.O.B. in 1 min.  
No return  
B.O.B. in 2 min  
No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2007.33	112.97	Initial Hydro-static
1	645.30	114.55	Open To Flow (1)
15	861.09	127.65	Shut-In(1)
46	1085.76	126.60	End Shut-In(1)
46	911.60	126.43	Open To Flow (2)
77	1062.84	127.20	Shut-In(2)
137	1085.40	126.21	End Shut-In(2)
138	1985.35	125.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	m c w 40m 60w	2.52
300.00	s m c w 15m 85w	4.21
1620.00	water 100w (reversed out)	22.72
120.00	water 100w (under circ sub)	1.68

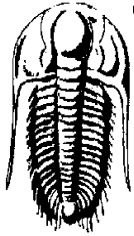
\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**13-11s-32w Logan,KS**  
**Wieland #1-13**  
Job Ticket: 52850 **DST#: 2**  
Test Start: 2013.09.10 @ 01:00:59

## Tool Information

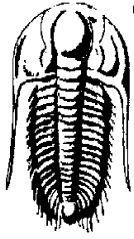
Drill Pipe:	Length: 4097.00 ft	Diameter: 3.80 inches	Volume: 57.47 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 57.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4108.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4081.00	
Shut In Tool	5.00			4086.00	
Hydraulic tool	5.00			4091.00	
Jars	5.00			4096.00	
Safety Joint	3.00			4099.00	
Packer	5.00			4104.00	28.00 Bottom Of Top Packer
Packer	4.00			4108.00	
Stubb	1.00			4109.00	
Recorder	0.00	6667	Inside	4109.00	
Recorder	0.00	8368	Outside	4109.00	
Perforations	20.00			4129.00	
Bullnose	5.00			4134.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 54.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Norstar Petroleum Inc

**13-11s-32w Logan,KS**

88 Inverness Cir E Unit F104  
Englewood, CO 80112

**Wieland #1-13**

Job Ticket: 52850

**DST#: 2**

ATTN: Bob Elder

Test Start: 2013.09.10 @ 01:00:59

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32500 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.70 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	m c w 40m 60w	2.525
300.00	s m c w 15m 85w	4.208
1620.00	water 100w (reversed out)	22.724
120.00	water 100w (under circ sub)	1.683

Total Length: 2220.00 ft

Total Volume: 31.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

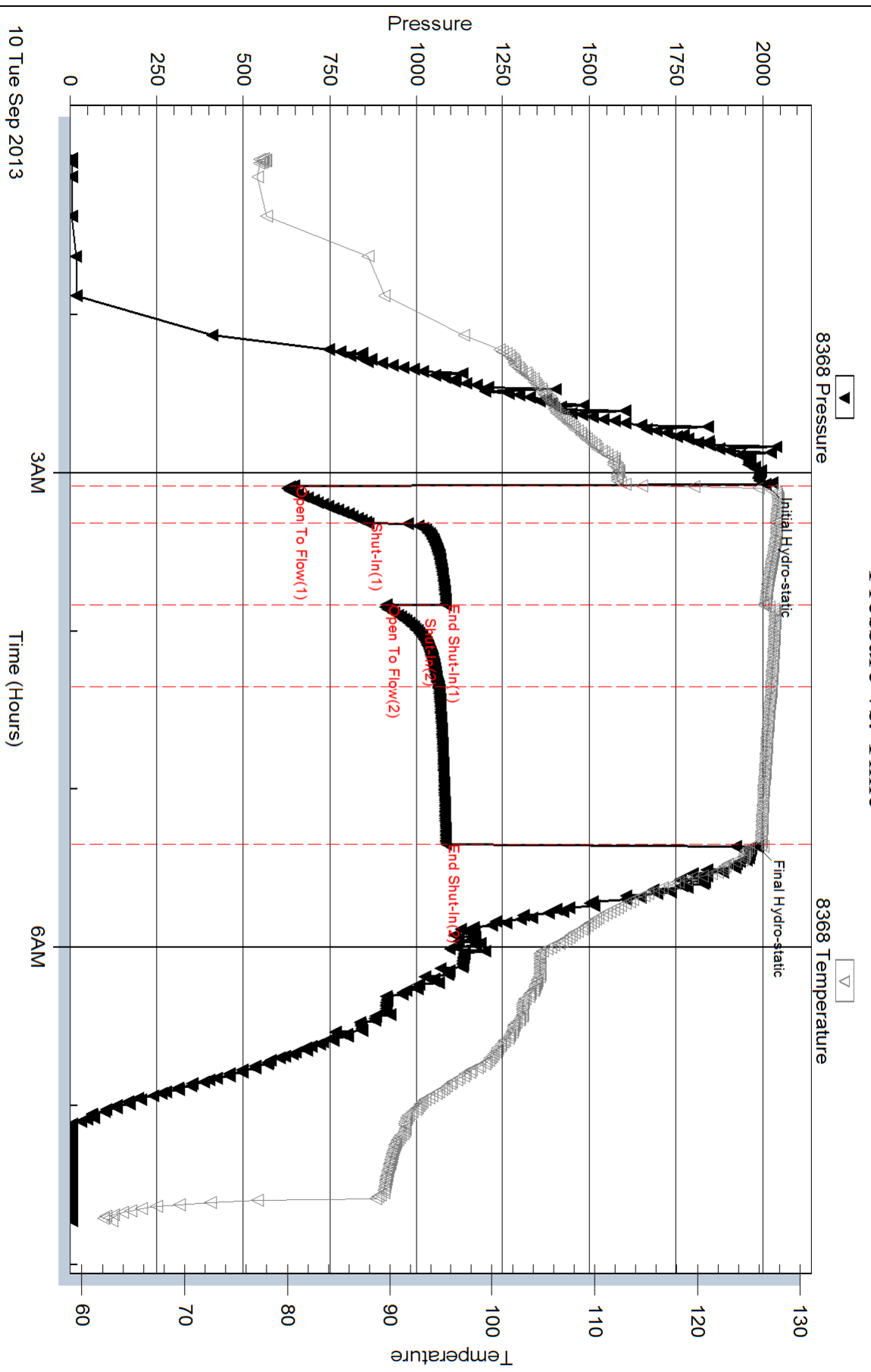
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .218 @ 70\*f = 32,500 chlor

### Pressure vs. Time



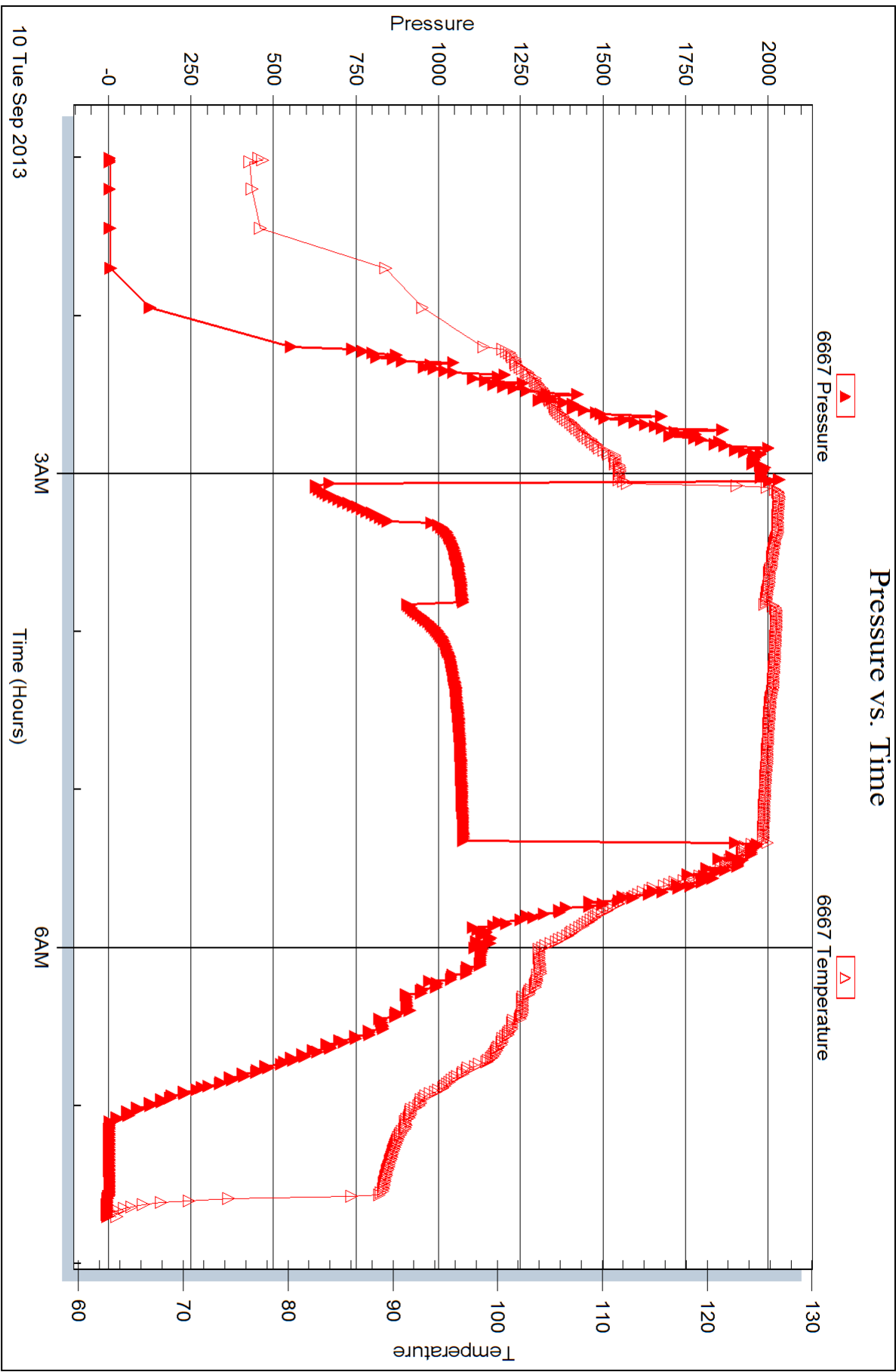
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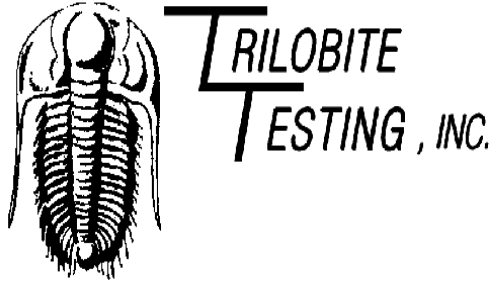
Inside

Norstar Petroleum Inc

Welland #1-13

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc**

88 Inverness Cir E Unit F104  
Englewood, CO 80112

ATTN: Bob Elder

### **Wieland #1-13**

### **13-11s-32w Logan,KS**

Start Date: 2013.09.10 @ 19:05:45

End Date: 2013.09.11 @ 03:20:54

Job Ticket #: 54626                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.13 @ 09:17:58

Norstar Petroleum Inc  
13-11s-32w Logan,KS  
Wieland #1-13  
DST # 3  
H  
2013.09.10









**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**13-11s-32w Logan,KS**  
**Wieland #1-13**  
Job Ticket: 54626      **DST#: 3**  
Test Start: 2013.09.10 @ 19:05:45

**Tool Information**

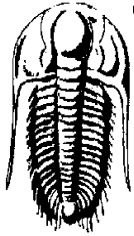
Drill Pipe:	Length: 4160.00 ft	Diameter: 3.80 inches	Volume: 58.35 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 95000.00 lb
			Total Volume: 58.35 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4176.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4149.00	
Shut In Tool	5.00			4154.00	
Hydraulic tool	5.00			4159.00	
Jars	5.00			4164.00	
Safety Joint	3.00			4167.00	
Packer	5.00			4172.00	28.00      Bottom Of Top Packer
Packer	4.00			4176.00	
Stubb	1.00			4177.00	
Recorder	0.00	6667	Inside	4177.00	
Recorder	0.00	8368	Outside	4177.00	
Perforations	28.00			4205.00	
Bullnose	5.00			4210.00	34.00      Bottom Packers & Anchor

**Total Tool Length: 62.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Norstar Petroleum Inc

**13-11s-32w Logan,KS**

88 Inverness Cir E Unit F104  
Englewood, CO 80112

**Wieland #1-13**

Job Ticket: 54626

**DST#: 3**

ATTN: Bob Elder

Test Start: 2013.09.10 @ 19:05:45

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

45000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in<sup>3</sup>

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
20.00	c g o 5g 950	0.281
150.00	m c w trace of oil 30%m 70%w	2.104
0.00	70' very weak gas in pipe	0.000

Total Length: 170.00 ft      Total Volume: 2.385 bbl

Num Fluid Samples: 0

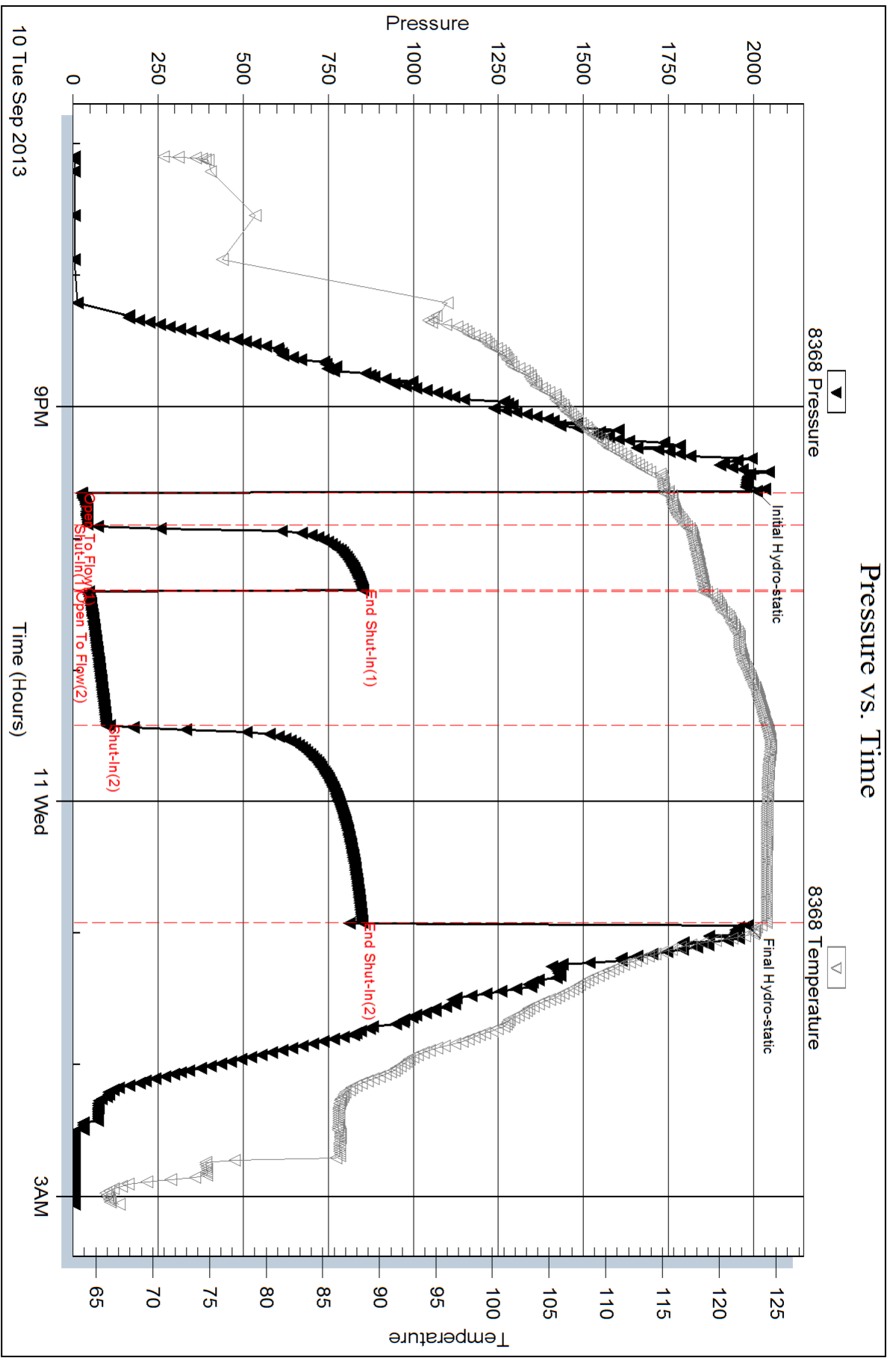
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .154 @ 71\*f =45,000 chlor



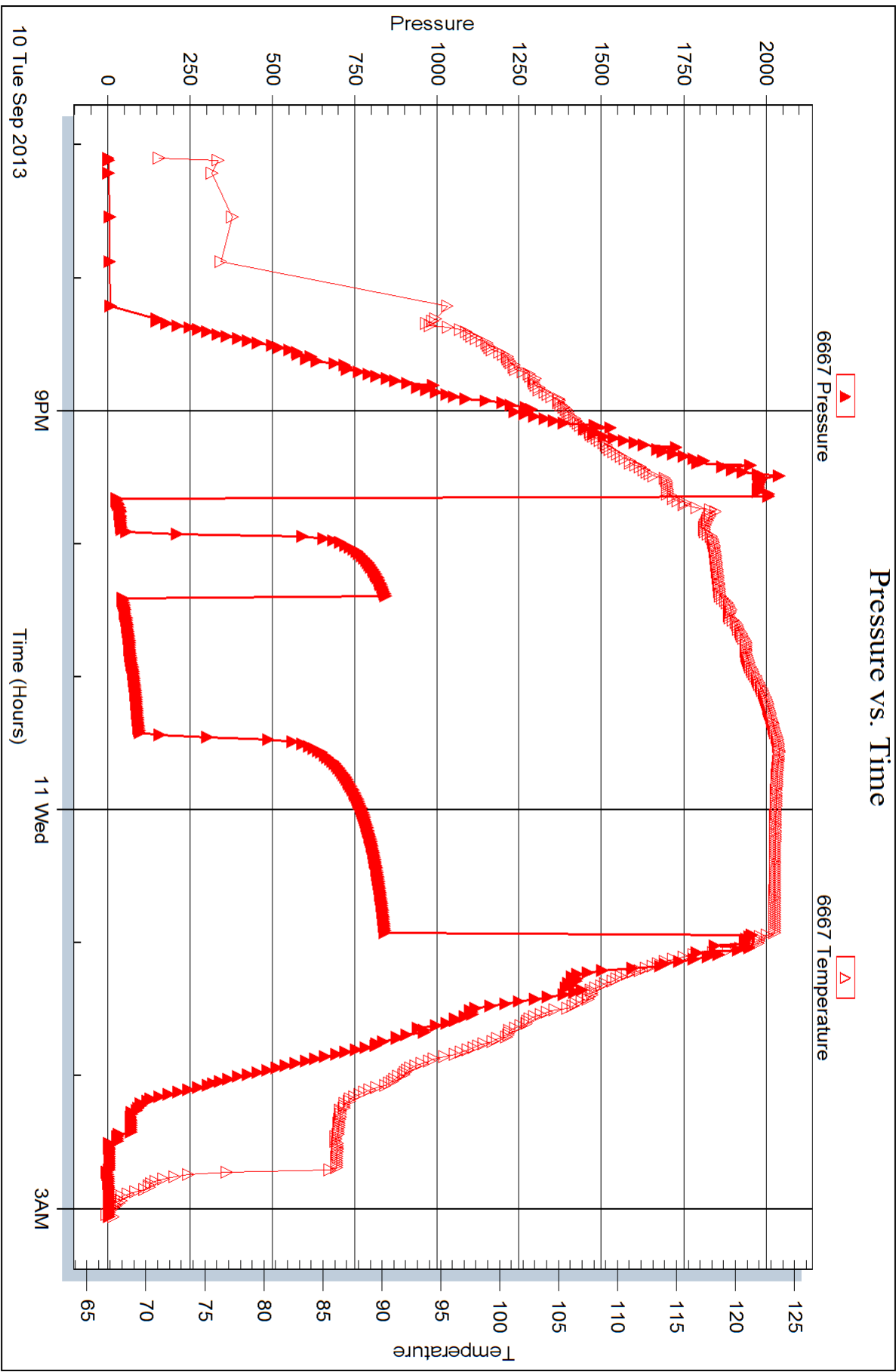
Serial #: 6667

Inside

Norstar Petroleum Inc

Welland #1-13

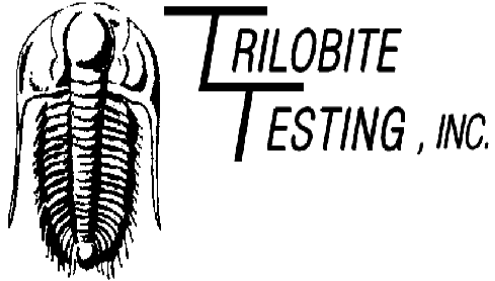
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 54626

Printed: 2013.09.13 @ 09:18:00



## DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc**

88 Inverness Cir E Unit F104  
Englewood, CO 80112

ATTN: Bob Elder

### **Wieland #1-13**

### **13-11s-32w Logan,KS**

Start Date: 2013.09.11 @ 12:30:21

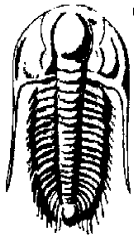
End Date: 2013.09.11 @ 18:35:15

Job Ticket #: 54627                      DST #: 4

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

Printed: 2013.09.13 @ 09:17:24

Norstar Petroleum Inc  
13-11s-32w Logan,KS  
Wieland #1-13  
DST # 4  
J  
2013.09.11



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**13-11s-32w Logan,KS**  
**Wieland #1-13**  
Job Ticket: 54627      **DST#: 4**  
Test Start: 2013.09.11 @ 12:30:21

## GENERAL INFORMATION:

Formation: **J**  
Deviated: **No** Whipstock:                      ft (KB)      Test Type: **Conventional Bottom Hole (Reset)**  
Time Tool Opened: 14:11:31      Tester: **Shane McBride**  
Time Test Ended: 18:35:15      Unit No: **55**  
**Interval: 4207.00 ft (KB) To 4258.00 ft (KB) (TVD)**      Reference Elevations: 3031.00 ft (KB)  
Total Depth: 4258.00 ft (KB) (TVD)      3022.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 9.00 ft

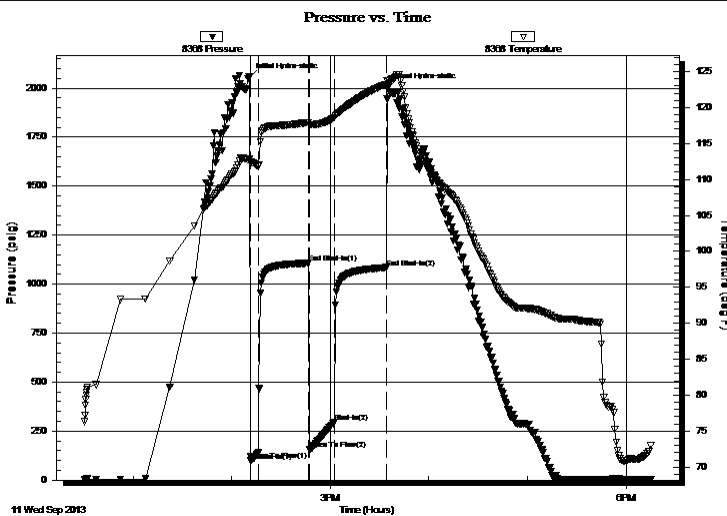
## Serial #: 8368

**Outside**

Press @ Run Depth: 294.41 psig @ 4208.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.09.11      End Date: 2013.09.11      Last Calib.: 2013.09.11  
Start Time: 12:30:21      End Time: 18:15:15      Time On Btm: 2013.09.11 @ 14:10:46  
Time Off Btm: 2013.09.11 @ 15:35:16

TEST COMMENT: B.O.B. in 2 1/2 min.  
No return  
B.O.B. in 3 1/2 min.  
No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2055.73	112.89	Initial Hydro-static
1	101.77	112.41	Open To Flow (1)
6	143.69	111.85	Shut-In(1)
36	1107.22	117.94	End Shut-In(1)
37	155.68	117.63	Open To Flow (2)
52	294.41	118.58	Shut-In(2)
84	1084.95	123.25	End Shut-In(2)
85	2004.74	123.71	Final Hydro-static

## Recovery

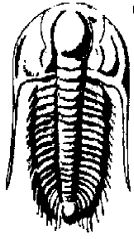
Length (ft)	Description	Volume (bbl)
90.00	o & w c m 15o 25w 60m	1.26
240.00	g o & m c w 15g 20o 25m 40w	3.37
300.00	g o & m c w 10g 20o 20m 50w	4.21

## 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 Inc  
88 Inverness Cir E Unit F104  
Englewood, CO 80112  
ATTN: Bob Elder

**13-11s-32w Logan,KS**  
**Wieland #1-13**  
Job Ticket: 54627      **DST#: 4**  
Test Start: 2013.09.11 @ 12:30:21

**Tool Information**

Drill Pipe:	Length: 4191.00 ft	Diameter: 3.80 inches	Volume: 58.79 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 58.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4207.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

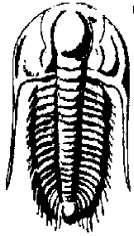
Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			4180.00	
Shut In Tool	5.00			4185.00	
Hydraulic tool	5.00			4190.00	
Jars	5.00			4195.00	
Safety Joint	3.00			4198.00	
Packer	5.00			4203.00	28.00      Bottom Of Top Packer
Packer	4.00			4207.00	
Stubb	1.00			4208.00	
Recorder	0.00	6667	Inside	4208.00	
Recorder	0.00	8368	Outside	4208.00	
Perforations	12.00			4220.00	
Change Over Sub	1.00			4221.00	
Drill Pipe	31.00			4252.00	
Change Over Sub	1.00			4253.00	
Bullnose	5.00			4258.00	51.00      Bottom Packers & Anchor

**Total Tool Length: 79.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Norstar Petroleum Inc

**13-11s-32w Logan,KS**

88 Inverness Cir E Unit F104  
Englewood, CO 80112

**Wieland #1-13**

Job Ticket: 54627

**DST#: 4**

ATTN: Bob Elder

Test Start: 2013.09.11 @ 12:30:21

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48500 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	o & w c m 15o 25w 60m	1.262
240.00	g o & m c w 15g 20o 25m 40w	3.367
300.00	g o & m c w 10g 20o 20m 50w	4.208

Total Length: 630.00 ft      Total Volume: 8.837 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .134 @ 76\*f =48,500 chlor

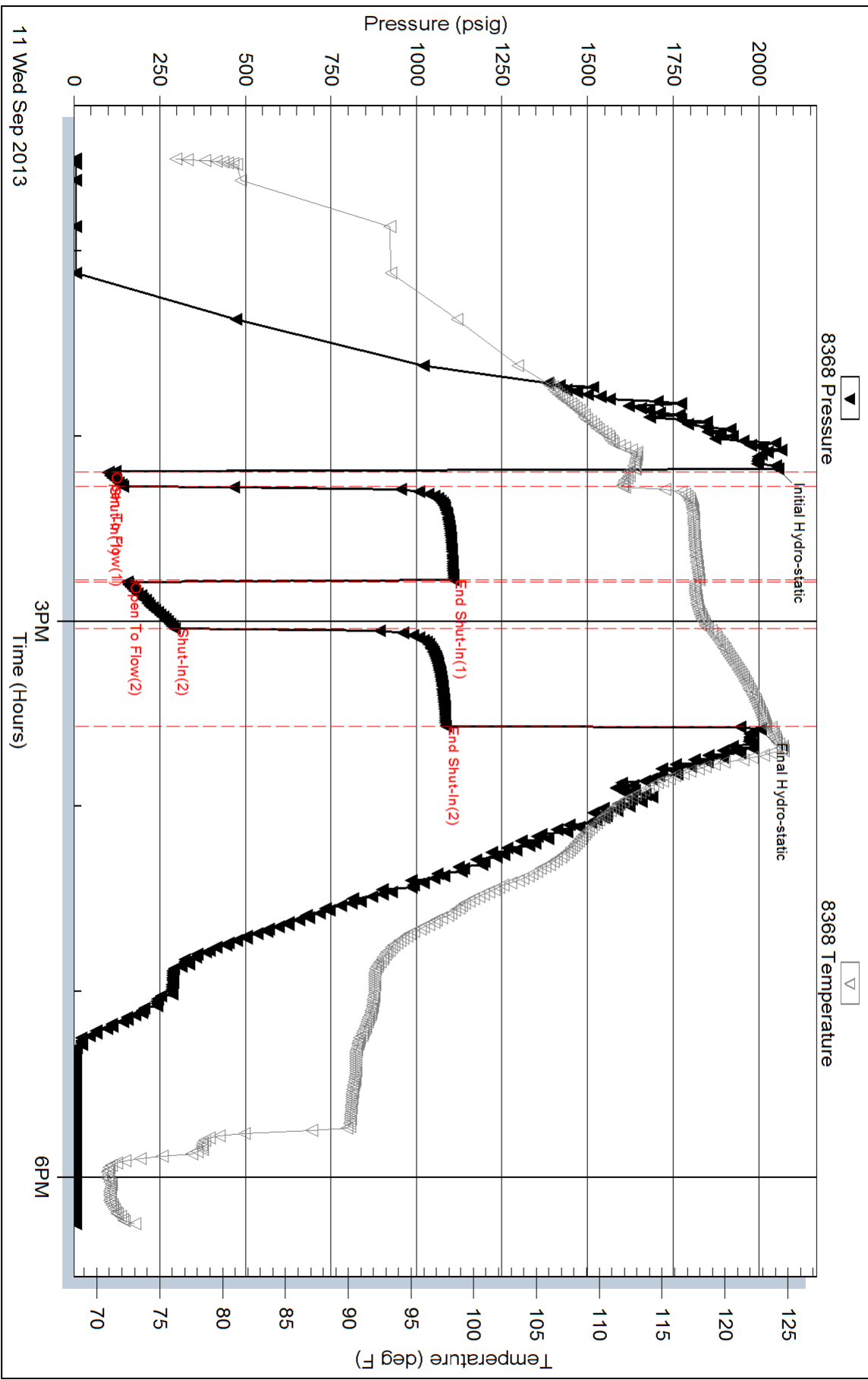
Serial #: 8368

Outside Norstar Petroleum Inc

Welland #1-13

DST Test Number: 4

### Pressure vs. Time



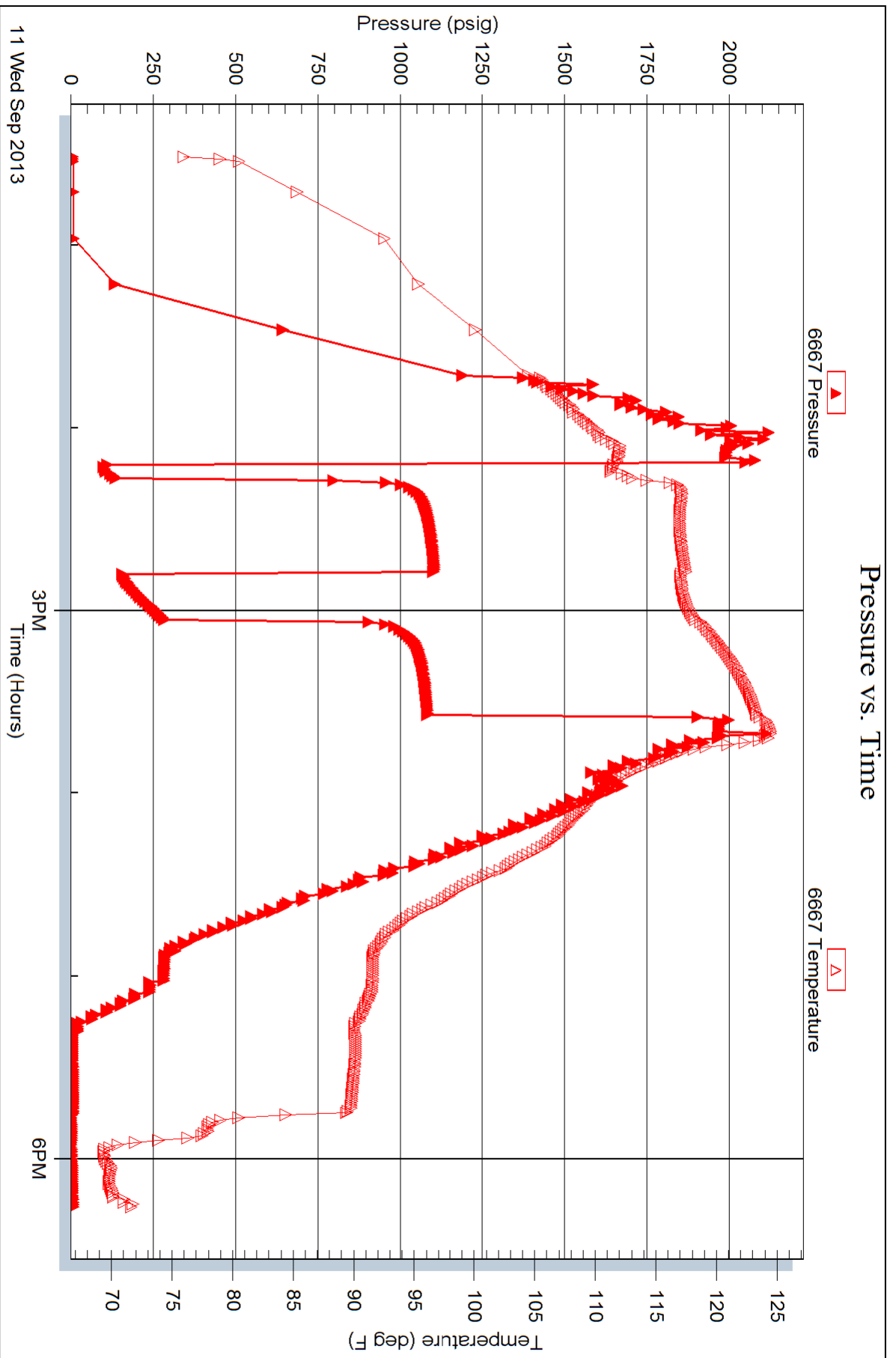
Serial #: 6667

Inside

Norstar Petroleum Inc

Welland #1-13

DST Test Number: 4





4/10

# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52849

Well Name & No. Wieland #1-13 Test No. #1 Date 9/9/13  
 Company Norstar Petroleum Inc Elevation 3031 KB 3022 GL  
 Address 88 Inverness Cir Edwrt F104 Englewood Colo 80112  
 Co. Rep / Geo. Bob Elder Rig Val #4  
 Location: Sec. 13 Twp. 11S Rge. 32W Co. Logan State Ks

Interval Tested 4060 4100 Zone Tested B-C  
 Anchor Length 40 Drill Pipe Run 4065' Mud Wt. 9.2  
 Top Packer Depth 4055 Drill Collars Run — Vis 53  
 Bottom Packer Depth 4060 Wt. Pipe Run — WL 8.8  
 Total Depth 4100 Chlorides 1500 ppm System LCM #2

Blow Description B.O.B. in 2 1/2 min.  
No return  
B.O.B. in 4 min  
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>Feet of mcw w/oil spots</u>		<u>50</u>	<u>30</u>	
<u>300</u>	<u>Feet of smcw</u>		<u>80</u>	<u>20</u>	
<u>660</u>	<u>Feet of water</u>		<u>100</u>		

Rec Total 1085' BHT 125° Gravity — API RW. 130 @ 75° F Chlorides 50000 ppm

(A) Initial Hydrostatic 1966  Test 1250 T-On Location 09:40  
 (B) First Initial Flow 127  Jars 250 T-Started 10:20  
 (C) First Final Flow 266  Safety Joint 75 T-Open 12:28  
 (D) Initial Shut-In 942  Circ Sub N/C T-Pulled 14:13  
 (E) Second Initial Flow 295  Hourly Standby — T-Out 17:15  
 (F) Second Final Flow 521  Mileage 92 RT 142.60  
 (G) Final Shut-In 918  Sampler —  
 (H) Final Hydrostatic 1912  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Extra Recorder — Sub Total 0  
 Day Standby — Total 1717.60  
 Accessibility — MP/DST Disc't! —

Initial Open 10  
 Initial Shut-In 30  
 Final Flow 20  
 Final Shut-In 45  
 Sub Total 1717.60

Approved By Bob Elder 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. 52850

Well Name & No. Wieland #1-13 Test No. #2 Date 9/10/13  
 Company Noistar Petroleum Inc. Elevation 3031 KB 3022 GL  
 Address 88 Inverness Cir E unit F104 Englewood Colo 80112  
 Co. Rep / Geo. Bob Elder Rig Val #1  
 Location: Sec. 13 Twp. 11S Rge. 32W Co. Logan State Ks

Interval Tested 4108 4134 Zone Tested E-F  
 Anchor Length 26 Drill Pipe Run 4097 Mud Wt. 9.2  
 Top Packer Depth 4103 Drill Collars Run — Vis 53  
 Bottom Packer Depth 4108 Wt. Pipe Run — WL 8.8  
 Total Depth 4134 Chlorides 1500 ppm System LCM #2

Blow Description B.O.B. in 1 min.  
No return  
B.O.B. in 2 min  
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>Feet of m.c.w</u>		<u>60</u>	<u>40</u>	
<u>300</u>	<u>Feet of s.m.c.w</u>		<u>85</u>	<u>15</u>	
<u>1620</u>	<u>Feet of water (Reversed out)</u>		<u>100</u>		
<u>120</u>	<u>Feet of water (under Circ Sub)</u>		<u>100</u>		
<u>    </u>	<u>Feet of</u>				

Rec Total 2220 BHT 127° Gravity — API RW 218 @ 70° F Chlorides 32,500 ppm

(A) Initial Hydrostatic <u>2007</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>00:40</u>
(B) First Initial Flow <u>645</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>01:00</u>
(C) First Final Flow <u>861</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>03:05</u>
(D) Initial Shut-In <u>1085</u>	<input checked="" type="checkbox"/> Circ Sub <u>50<sup>00</sup></u>	T-Pulled <u>05:20</u>
(E) Second Initial Flow <u>911</u>	<input type="checkbox"/> Hourly Standby	T-Out
(F) Second Final Flow <u>1062</u>	<input checked="" type="checkbox"/> Mileage <u>92 RT</u> <u>142.60</u>	Comments
(G) Final Shut-In <u>1085</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1985</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies

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

Sub Total 1767.60 MP/DST Disc P

Approved By Bob Elder 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. 54626

Well Name & No. Wieland #1-13 Test No. #3 Date 9/11/13  
 Company Horst Petroleum Inc Elevation 3031 KB 3022 GL  
 Address 88 Inverness Cir Unit F104, Englewood, Colo. 80112  
 Co. Rep / Geo. Bob Elder Rig Tal #4  
 Location: Sec. 13 Twp. 11S Rge. 32W Co. Hogan State Ks

Interval Tested 4176 4210 Zone Tested H  
 Anchor Length 34 Drill Pipe Run 4160 Mud Wt. 9.0  
 Top Packer Depth 4171 Drill Collars Run — Vis 53  
 Bottom Packer Depth 4176 Wt. Pipe Run — WL 8.0  
 Total Depth 4210 Chlorides 2500 ppm System LCM #2

Blow Description 5 1/4" in blow  
No return  
B.O.B. in 48 min  
Weak surface return in 10min. died in 35min

Rec	Feet of	%gas	%oil	%water	%mud
<u>20'</u>	<u>C90</u>	<u>5</u>	<u>95</u>		
<u>150'</u>	<u>mcw trace / 6 oil</u>		<u>Trace</u>	<u>70</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>(70' very weak gas in pipe)</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 170' BHT 124° Gravity — API RW .154 @ 71 °F Chlorides 45,000 ppm

(A) Initial Hydrostatic <u>2010</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>18:20</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>19:05</u>
(C) First Final Flow <u>45</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>21:38</u>
(D) Initial Shut-In <u>852</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>00:53</u>
(E) Second Initial Flow <u>47</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>03:20</u>
(F) Second Final Flow <u>98</u>	<input checked="" type="checkbox"/> Mileage <u>92.45</u> 142.60	Comments
(G) Final Shut-In <u>849</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1982</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1717.60</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1717.60</u>	

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 60  
 Final Shut-In 90

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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54628

Well Name & No. Wichard #1-13 Test No. #4 Date 9/11/13  
 Company Noistar Petroleum Inc Elevation 3031 KB 3022 GL  
 Address 88 Inverness Cir E Unit #104, Englewood, Colo. 80112  
 Co. Rep / Geo. Bob. Elder Rig Vgt #4  
 Location: Sec. 13 Twp. 11S Rge. 32W Co. Dogon State Ks

Interval Tested 4207 4258 Zone Tested J  
 Anchor Length 51 Drill Pipe Run 4191 Mud Wt. 9.1  
 Top Packer Depth 4202 Drill Collars Run — Vis 58  
 Bottom Packer Depth 4207 Wt. Pipe Run — WL 9.2  
 Total Depth 4258 Chlorides 3200 ppm System LCM #1

Blow Description B.O.B. in 2 1/2 min  
No return  
B.O.B. in 3 1/2 min  
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>0'3" w c m</u>	<u>15</u>	<u>25</u>	<u>60</u>	<u>—</u>
<u>240</u>	<u>9'0" 3" m c w</u>	<u>15</u>	<u>20</u>	<u>40</u>	<u>25</u>
<u>300</u>	<u>9'0" 3" m c w</u>	<u>10</u>	<u>20</u>	<u>50</u>	<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 630' BHT 124° Gravity — API RW 134 @ 76° °F Chlorides 48,500 ppm

(A) Initial Hydrostatic <u>2055</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>12:20</u>
(B) First Initial Flow <u>101</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:30</u>
(C) First Final Flow <u>143</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>14:15</u>
(D) Initial Shut-In <u>1107</u>	<input checked="" type="checkbox"/> Circ Sub <u>n/c</u>	T-Pulled <u>15:35</u>
(E) Second Initial Flow <u>155</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>18:35</u>
(F) Second Final Flow <u>294</u>	<input checked="" type="checkbox"/> Mileage <u>92 RT</u> <u>264.96</u>	Comments <u>loaded tools 9/12 19:45</u>
(G) Final Shut-In <u>1084</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2004</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 5  Extra Packer  
 Initial Shut-In 30  Extra Recorder  
 Final Flow 15  Day Standby 1d 1.25h  
 Final Shut-In 30  Accessibility  
 Sub Total 1839.96 MP/DST Disc't

Approved By: Bob Elder Our Representative: [Signature]

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