



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1152156
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1152156

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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
-----------------------------------	-----------	---------	-------------	---------------	---------

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)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
---	--	--

Form	ACO1 - Well Completion
Operator	Norstar Petroleum, Inc.
Well Name	Epard 2-33
Doc ID	1152156

Tops

Name	Top	Datum
Anhydrite	2755	+511
Topeka	3977	-711
Heebner	4133	-867
Toronto	4154	-888
Lansing	4176	-910
Stark Shale	4400	-1134
Pawnee	4598	-1332
Ft. Scott	4629	-1363
Cherokee Shale	4647	-1381
Johnson	4724	-1458
Mississippi	4814	-1548

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

July 18, 2013

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

Re: ACO1
API 15-193-20893-00-00
Epard 2-33
NW/4 Sec.33-10S-34W
Thomas 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



PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

260021

TICKET NUMBER 37929
LOCATION Oakley, KS
FOREMAN Kelly Gabel

FIELD TICKET & TREATMENT REPORT

CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-26-13	5734	Espar 2-33	33	105	346	Thomas
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Norstar			399	Damon		
MAILING ADDRESS			397	Jack		
CITY						
STATE						
ZIP CODE						

40258
North
Co. line
West
Rd 15
IN
E into

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4860 CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 142 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting, rigged up on 6 1/2" #8, mixed cement
Plugs & displaced,
25 @ 2780
100 @ 1762
40 @ 320
10 @ 40 w/wiper plug
30RH
washed out pump & lines, rigged down.

*Thank You
Kelly & crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1395.00	1395.00
5406	20mi	MILEAGE	5.25	105.00
1131	205	60/40 Poz	15.86	3251.30
118B	705#	Bentonite	.27	190.35
1107	51#	Flo-seal	2.97	151.47
5407	8.81	Ton mileage delivery	1.75	430.00
4432	1	8 5/8 Wooden Plug	100.75	100.75
				5623.87
				5623.9
				5061.48
				242.68
				5304.16

Completed

June 10 2013

SALES TAX _____
 ESTIMATED TOTAL 5304.16
 DATE 6-26-13

AUTHORIZATION *[Signature]*

TITLE _____

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.



CONSOLIDATED
Oil Well Services, LLC

259742

TICKET NUMBER 37919
LOCATION Dokley, KS
FOREMAN Jerry Y (trainee)
Fuzzy M

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-18-23	5734	Esard 2-33	33	10S	34W	Thomas
CUSTOMER	Mailing Address		TRUCK #	DRIVER	TRUCK #	DRIVER
Nor Star			405	Jordan L		
			397	beck J		
CITY	STATE	ZIP CODE				

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 268 CASING SIZE & WEIGHT 5 5/8 24#
 CASING DEPTH 268.82 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.7 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 1534 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & rigup on W618, hook up & circulate hole mix 185 sks com class A with 32 calcium chloride 22 bentonite and displace with 1534 bbl fresh water and shut in. Cement in celler only

Thanks - Jerry Fuzzy crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1150.00	1150.00
5406	20	MILEAGE	5.25 =	105.00
5407	8.7	Tom mileage delivery (min)	430.00	430.00
11045	185 sks	com class A	18.55	3431.75
1102	52 #	calcium chloride	.94	489.74
1118A	34 #	bentonite	.27	93.96
		subtotal		5700.45
		less 10%		570.05
		subtotal		5130.40



SALES TAX 263.82
ESTIMATED TOTAL 5394.22
AUTHORIZATION [Signature] TITLE _____ DATE _____

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



DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum, Inc.**

88 Inverness Cir, E Unit F 104
Englewood, CO 80112-5514

ATTN: Bob Elder

Epard #2-33

33-10s-34w Thomas,KS

Start Date: 2013.06.23 @ 10:05:00

End Date: 2013.06.23 @ 17:48:45

Job Ticket #: 53079 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.26 @ 15:27:50



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum, Inc.

33-10s-34w Thomas,KS

88 Inverness Cir, E Unit F 104
Englewood, CO 80112-5514

Epard #2-33

Job Ticket: 53079

DST#: 1

ATTN: Bob Elder

Test Start: 2013.06.23 @ 10:05:00

GENERAL INFORMATION:

Formation: **Kansas City "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:25:00

Time Test Ended: 17:48:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 46

Interval: 4310.00 ft (KB) To 4392.00 ft (KB) (TVD)

Reference Elevations: 3266.00 ft (KB)

Total Depth: 4392.00 ft (KB) (TVD)

3261.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 275.04 psig @ 4311.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.23

End Date:

2013.06.23

Last Calib.:

2013.06.23

Start Time: 10:05:15

End Time:

17:48:45

Time On Btm:

2013.06.23 @ 12:24:45

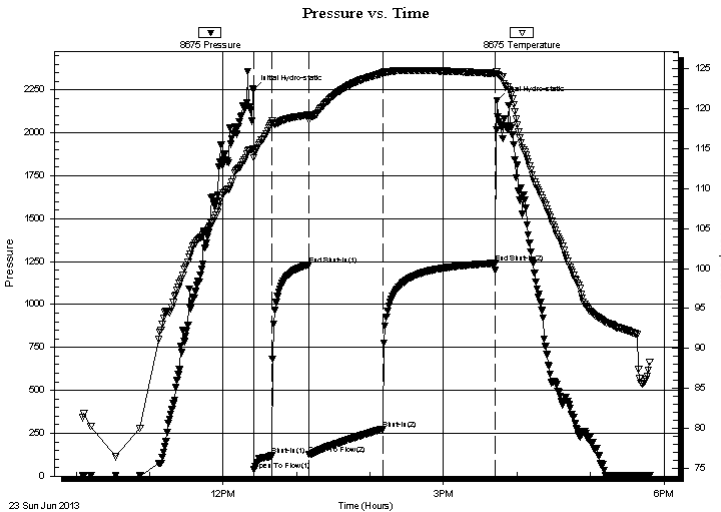
Time Off Btm:

2013.06.23 @ 15:43:30

TEST COMMENT:

Built to 11" blow
Bled off for 4 min. No return blow
B.O.B. in 20 min
Bled off for 5 min. No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2250.88	114.98	Initial Hydro-static
1	36.51	113.85	Open To Flow (1)
15	119.32	118.23	Shut-In(1)
46	1232.45	119.19	End Shut-In(1)
46	126.75	118.60	Open To Flow (2)
106	275.04	124.40	Shut-In(2)
198	1240.14	124.37	End Shut-In(2)
199	2186.93	124.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
249.00	100% Water	2.37
189.00	mcw 30%M 70%W	2.65
108.00	w cm 40%W 60%M w ith oil scum	1.51

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum, Inc.

33-10s-34w Thomas,KS

88 Inverness Cir, E Unit F 104
Englewood, CO 80112-5514

Epard #2-33

Job Ticket: 53079

DST#: 1

ATTN: Bob Elder

Test Start: 2013.06.23 @ 10:05:00

GENERAL INFORMATION:

Formation: **Kansas City " H-J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:25:00

Time Test Ended: 17:48:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 46

Interval: 4310.00 ft (KB) To 4392.00 ft (KB) (TVD)

Reference Elevations: 3266.00 ft (KB)

Total Depth: 4392.00 ft (KB) (TVD)

3261.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8650 Outside

Press @RunDepth: psig @ 4311.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.23

End Date:

2013.06.23

Last Calib.:

2013.06.23

Start Time: 10:05:15

End Time:

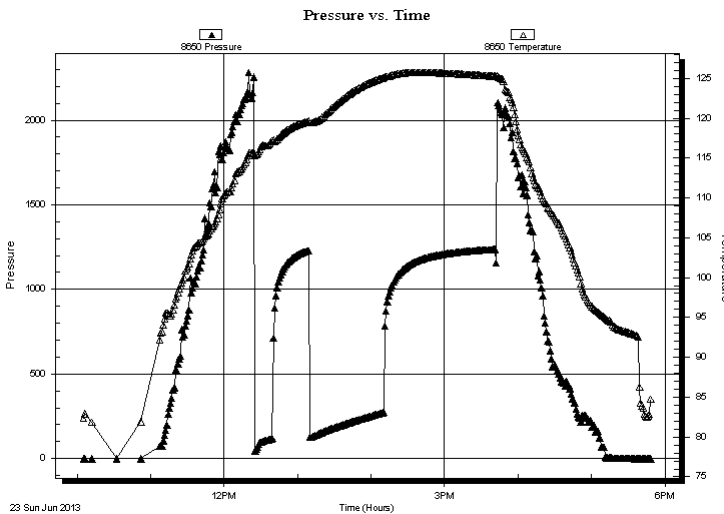
17:48:30

Time On Btm:

Time Off Btm:

TEST COMMENT: Built to 11" blow
Bled off for 4 min. No return blow
B.O.B. in 20 min
Bled off for 5 min. No return blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
249.00	100% Water	2.37
189.00	mcw 30%M 70%W	2.65
108.00	w cm 40%W 60%M w ith oil scum	1.51

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum, Inc.

33-10s-34w Thomas,KS

88 Inverness Cir, E Unit F 104
Englewood, CO 80112-5514

Epard #2-33

Job Ticket: 53079

DST#: 1

ATTN: Bob Elder

Test Start: 2013.06.23 @ 10:05:00

Tool Information

Drill Pipe:	Length: 4190.30 ft	Diameter: 3.80 inches	Volume: 58.78 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 123.17 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 88000.00 lb
			<u>Total Volume: 59.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.97 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4310.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	109.50 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			4283.50	
Shut In Tool	5.00			4288.50	
Hydraulic tool	5.00			4293.50	
Jars	5.00			4298.50	
Safety Joint	2.50			4301.00	
Packer	5.00			4306.00	27.50 Bottom Of Top Packer
Packer	4.00			4310.00	
Stubb	1.00			4311.00	
Recorder	0.00	8675	Inside	4311.00	
Recorder	0.00	8650	Outside	4311.00	
Perforations	13.00			4324.00	
Change Over Sub	1.00			4325.00	
Drill Pipe	63.00			4388.00	
Change Over Sub	1.00			4389.00	
Bullnose	3.00			4392.00	82.00 Bottom Packers & Anchor

Total Tool Length: 109.50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum, Inc.

33-10s-34w Thomas,KS

88 Inverness Cir, E Unit F 104
Englewood, CO 80112-5514

Epard #2-33

Job Ticket: 53079

DST#: 1

ATTN: Bob Elder

Test Start: 2013.06.23 @ 10:05:00

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
249.00	100% Water	2.371
189.00	mcw 30%M 70%W	2.651
108.00	w cm 40%W 60%M w ith oil scum	1.515

Total Length: 546.00 ft Total Volume: 6.537 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

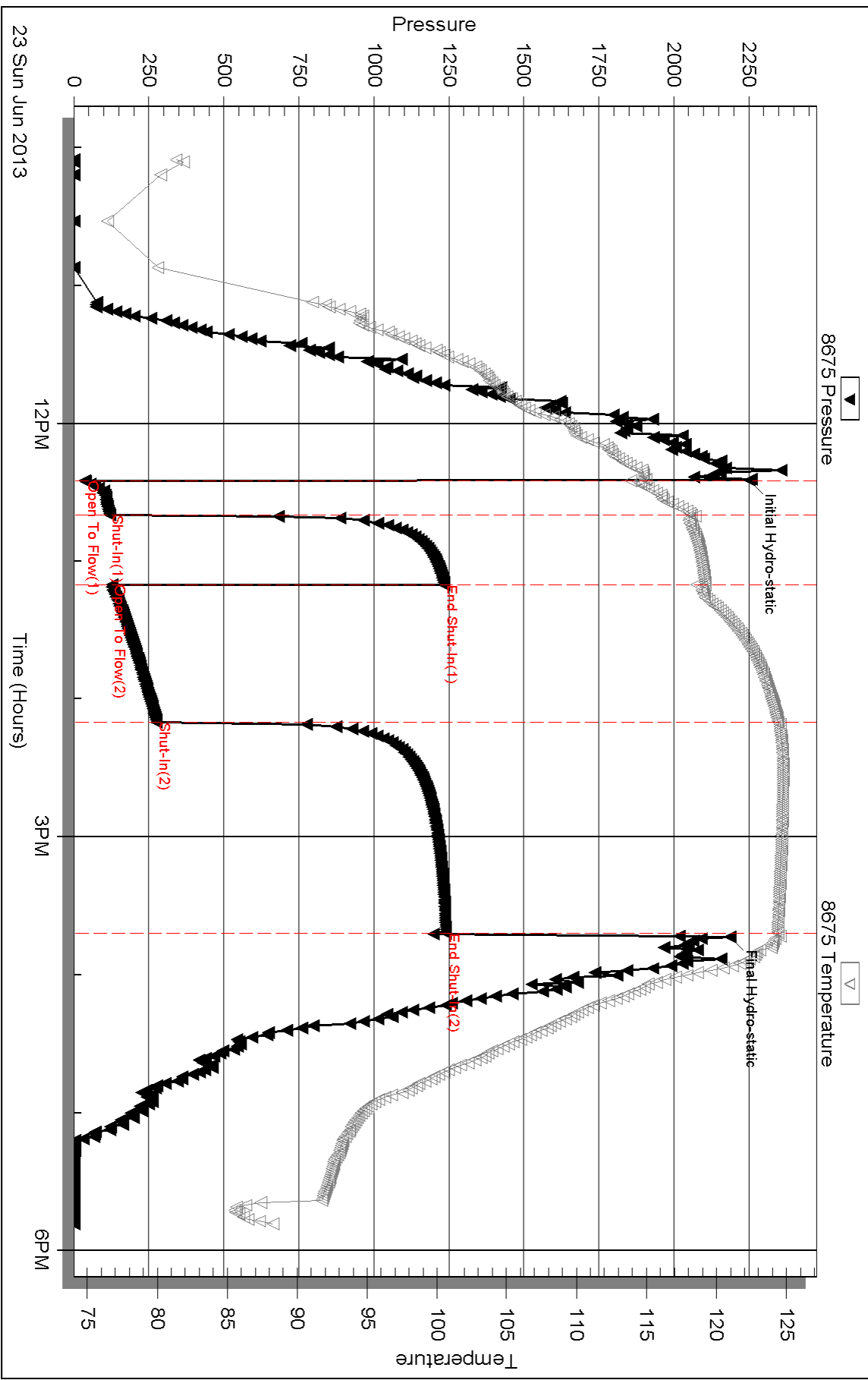
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW 0.1 @ 100 F = 50,000

Pressure vs. Time

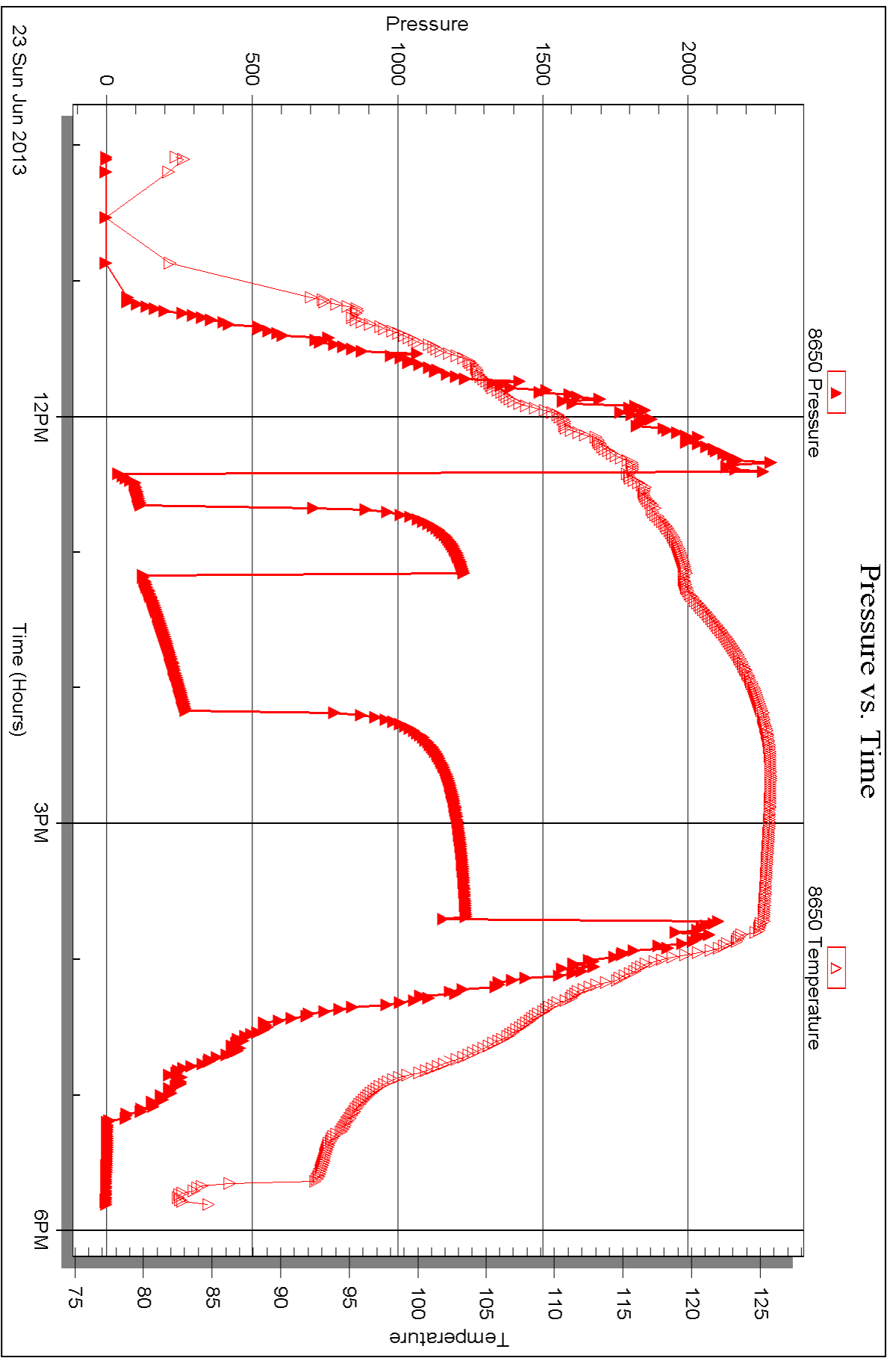


Serial #: 8650

Outside Norstar Petroleum, Inc.

Epard #2-33

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 53079

Printed: 2013.06.26 @ 15:27:54



DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum, Inc.**

88 Inverness Cir, E Unit F 104
Englewood, CO 80112-5514

ATTN: Bob Elder

Epard #2-33

33-10s-34w Thomas,KS

Start Date: 2013.06.24 @ 03:25:00

End Date: 2013.06.24 @ 09:37:15

Job Ticket #: 53080 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.26 @ 15:27:02

Norstar Petroleum, Inc.

33-10s-34w Thomas,KS

Epard #2-33

DST # 2

Kansas City " K "

2013.06.24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum, Inc.
 88 Inverness Cir, E Unit F 104
 Englewood, CO 80112-5514
 ATTN: Bob Elder

33-10s-34w Thomas, KS
Epard #2-33
 Job Ticket: 53080 **DST#: 2**
 Test Start: 2013.06.24 @ 03:25:00

GENERAL INFORMATION:

Formation: **Kansas City " K "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:16:15
 Time Test Ended: 09:37:15
 Interval: **4397.00 ft (KB) To 4426.00 ft (KB) (TVD)**
 Total Depth: 4426.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jace McKinney
 Unit No: 46
 Reference Elevations: 3266.00 ft (KB)
 3261.00 ft (CF)
 KB to GR/CF: 5.00 ft

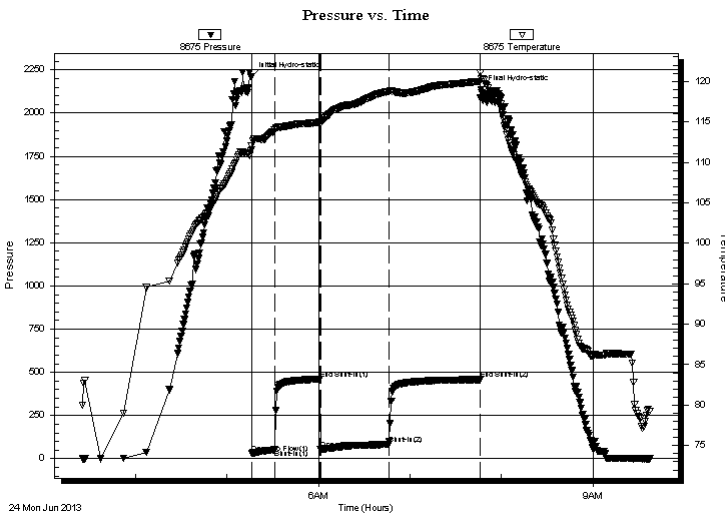
Serial #: 8675

Inside

Press @ Run Depth: 84.01 psig @ 4398.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.24 End Date: 2013.06.24 Last Calib.: 2013.06.24
 Start Time: 03:25:15 End Time: 09:37:15 Time On Btm: 2013.06.24 @ 05:16:00
 Time Off Btm: 2013.06.24 @ 07:46:45

TEST COMMENT: Built to 2 1/4" blow
 No return blow
 Built to 1/2" blow
 No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2213.67	112.01	Initial Hydro-static
1	33.36	111.57	Open To Flow (1)
15	52.52	113.95	Shut-In(1)
45	460.74	114.95	End Shut-In(1)
46	55.06	114.84	Open To Flow (2)
90	84.01	118.75	Shut-In(2)
150	458.31	119.99	End Shut-In(2)
151	2135.50	120.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	w cm with oil scum 20%W 80%M	0.84

* Recovery from multiple tests

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 F 104
Englewood, CO 80112-5514

ATTN: Bob Elder

33-10s-34w Thomas, KS

Epard #2-33

Job Ticket: 53080

DST#: 2

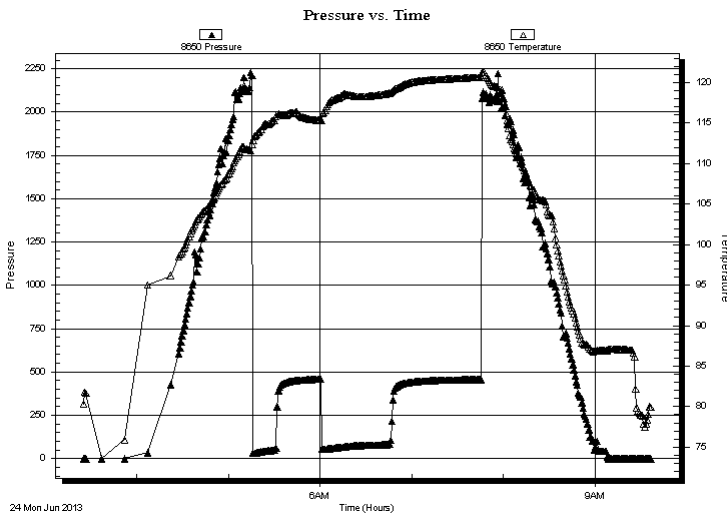
Test Start: 2013.06.24 @ 03:25:00

GENERAL INFORMATION:

Formation: **Kansas City " K "**
Deviated: No **Whipstock:** ft (KB)
Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 05:16:15 **Tester:** Jace McKinney
Time Test Ended: 09:37:15 **Unit No:** 46
Interval: **4397.00 ft (KB) To 4426.00 ft (KB) (TVD)** **Reference Elevations:** 3266.00 ft (KB)
Total Depth: 4426.00 ft (KB) (TVD) **3261.00 ft (CF)**
Hole Diameter: 7.88 inches **Hole Condition:** Fair **KB to GR/CF:** 5.00 ft

Serial #: 8650 Outside
Press @ RunDepth: psig @ 4398.00 ft (KB) **Capacity:** 8000.00 psig
Start Date: 2013.06.24 **End Date:** 2013.06.24 **Last Calib.:** 2013.06.24
Start Time: 03:25:15 **End Time:** 09:37:00 **Time On Btm:**
Time Off Btm:

TEST COMMENT: Built to 2 1/4" blow
 No return blow
 Built to 1/2" blow
 No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
140.00	w cm with oil scum 20%W 80%M	0.84

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.

33-10s-34w Thomas,KS

88 Inverness Cir, E Unit F 104
Englewood, CO 80112-5514

Epard #2-33

Job Ticket: 53080

DST#: 2

ATTN: Bob Elder

Test Start: 2013.06.24 @ 03:25:00

Tool Information

Drill Pipe:	Length: 4253.35 ft	Diameter: 3.80 inches	Volume: 59.66 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 123.17 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.02 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4397.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	56.50 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			4370.50	
Shut In Tool	5.00			4375.50	
Hydraulic tool	5.00			4380.50	
Jars	5.00			4385.50	
Safety Joint	2.50			4388.00	
Packer	5.00			4393.00	27.50 Bottom Of Top Packer
Packer	4.00			4397.00	
Stubb	1.00			4398.00	
Recorder	0.00	8675	Inside	4398.00	
Recorder	0.00	8650	Outside	4398.00	
Perforations	25.00			4423.00	
Change Over Sub	0.00			4423.00	
Drill Pipe	0.00			4423.00	
Change Over Sub	0.00			4423.00	
Bullnose	3.00			4426.00	29.00 Bottom Packers & Anchor

Total Tool Length: 56.50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum, Inc.

33-10s-34w Thomas,KS

88 Inverness Cir, E Unit F 104
Englewood, CO 80112-5514

Epard #2-33

Job Ticket: 53080

DST#: 2

ATTN: Bob Elder

Test Start: 2013.06.24 @ 03:25:00

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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	w cm w ith oil scum 20%W 80%M	0.842

Total Length: 140.00 ft Total Volume: 0.842 bbl

Num Fluid Samples: 0

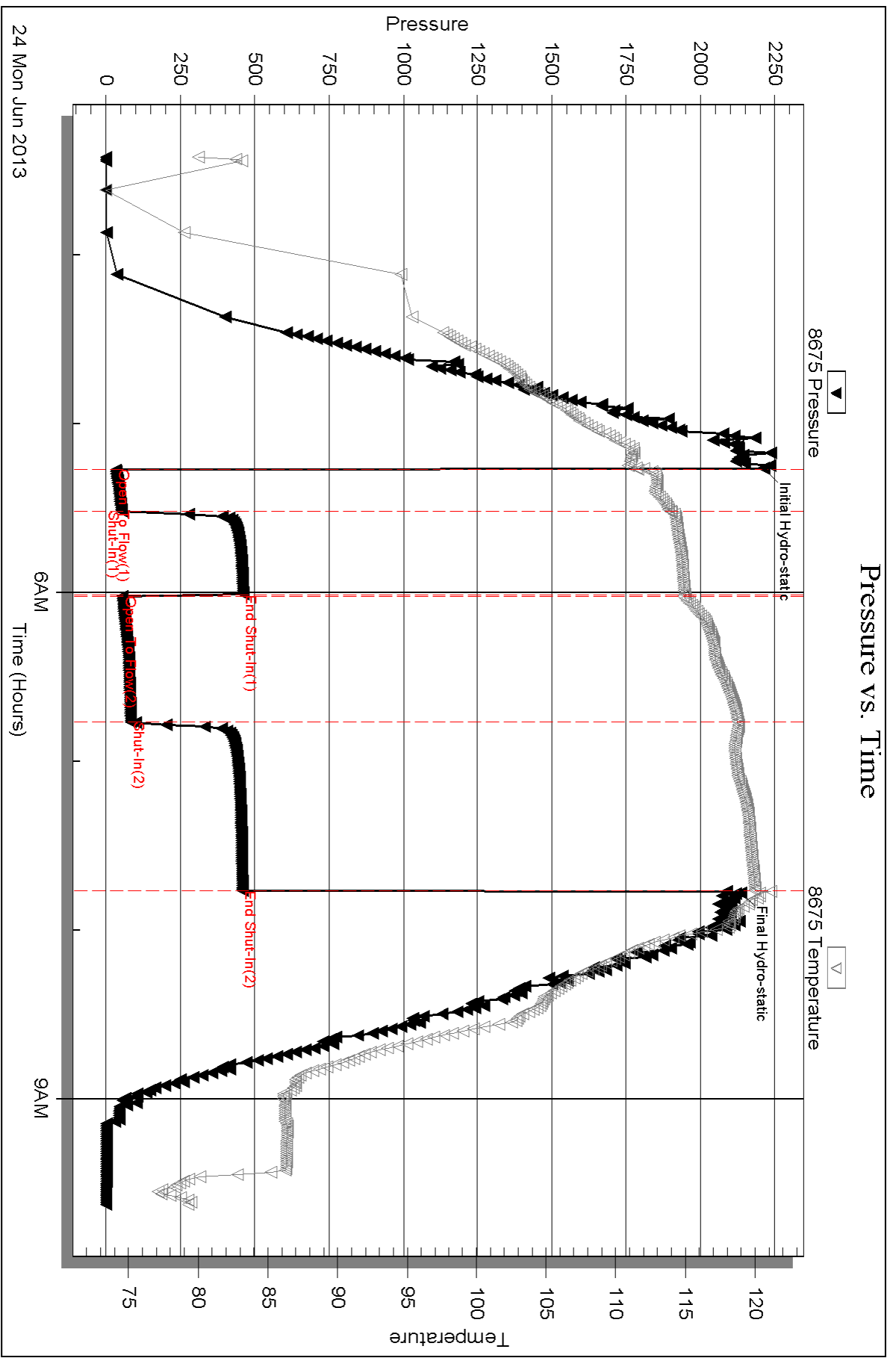
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .20 @ 80 F = 30,000

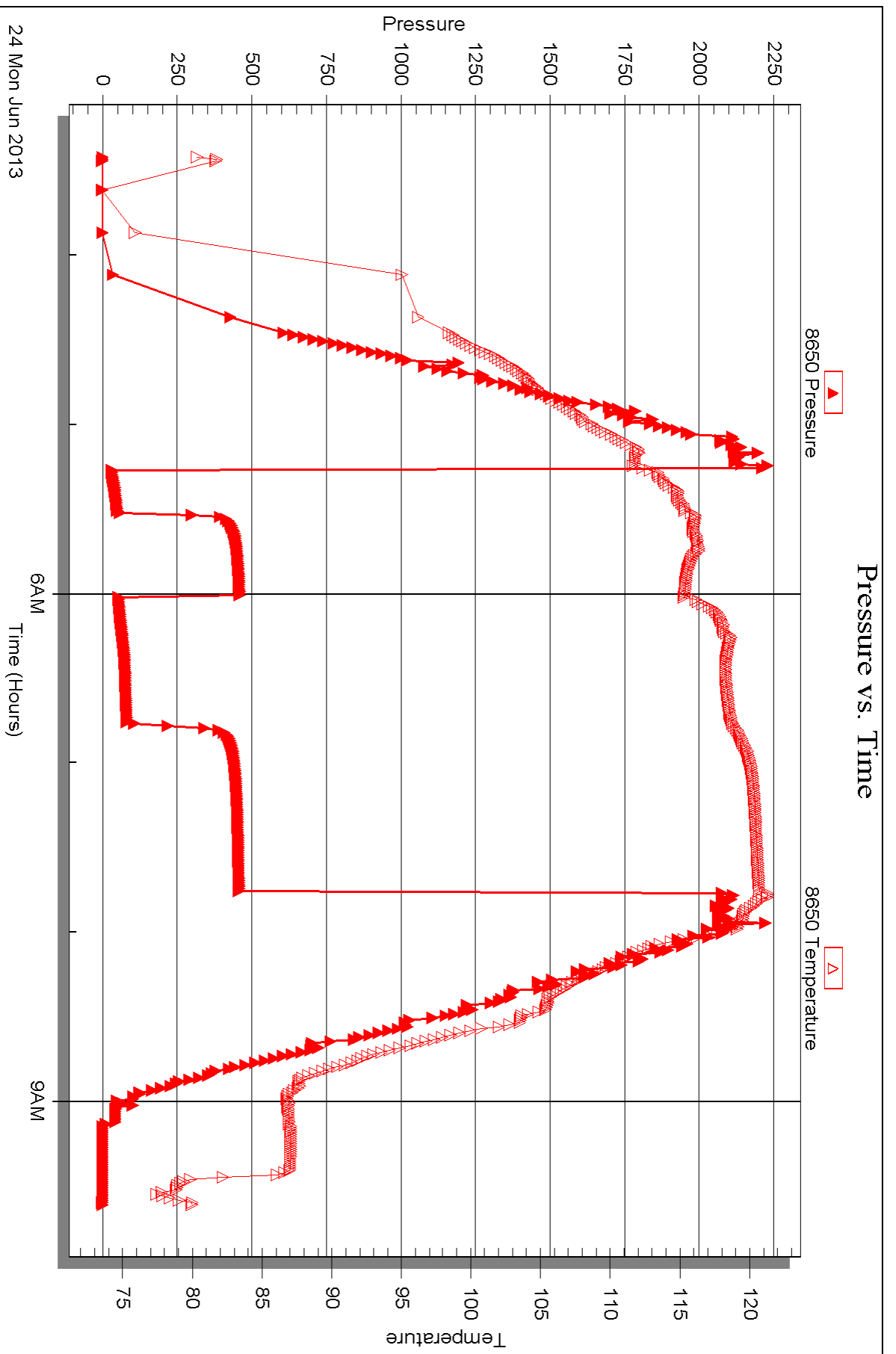


Serial #: 8650

Outside Norstar Petroleum, Inc.

Epard #2-33

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 53080

Printed: 2013.06.26 @ 15:27:06



DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum, Inc.**

88 Inverness Cir, E Unit F 104
Englewood, CO 80112-5514

ATTN: Bob Elder

Epard #2-33

33-10s-34w Thomas,KS

Start Date: 2013.06.25 @ 19:45:00

End Date: 2013.06.26 @ 01:09:45

Job Ticket #: 53081 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.26 @ 15:25:07



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum, Inc.

33-10s-34w Thomas,KS

88 Inverness Cir, E Unit F 104
Englewood, CO 80112-5514

Epard #2-33

Job Ticket: 53081

DST#: 3

ATTN: Bob Elder

Test Start: 2013.06.25 @ 19:45:00

GENERAL INFORMATION:

Formation: **Johnson Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:29:15

Time Test Ended: 01:09:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4706.00 ft (KB) To 4758.00 ft (KB) (TVD)

Reference Elevations: 3266.00 ft (KB)

Total Depth: 4758.00 ft (KB) (TVD)

3261.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8675 Inside

Press @ Run Depth: 60.00 psig @ 4707.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.25

End Date:

2013.06.26

Last Calib.:

2013.06.26

Start Time: 19:45:15

End Time:

01:09:45

Time On Btm:

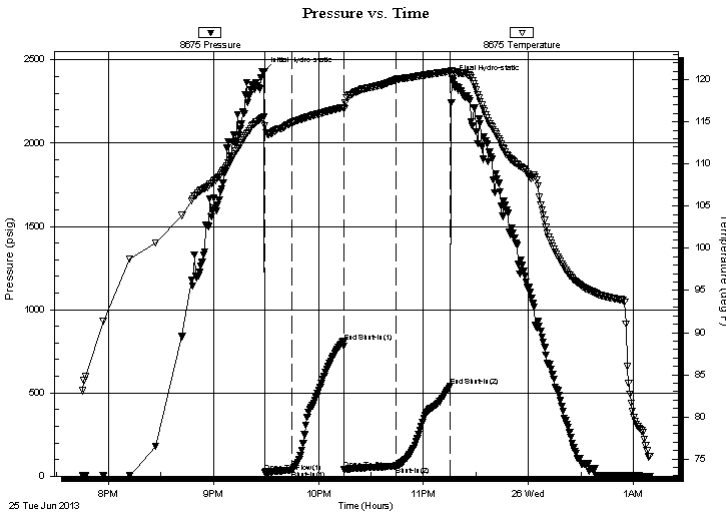
2013.06.25 @ 21:29:00

Time Off Btm:

2013.06.25 @ 23:16:30

TEST COMMENT: Built to 1/2" blow
No return blow
No blow
No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2429.03	115.59	Initial Hydro-static
1	22.83	114.57	Open To Flow (1)
16	36.29	114.86	Shut-In(1)
46	808.38	116.73	End Shut-In(1)
46	39.63	116.54	Open To Flow (2)
76	60.00	120.04	Shut-In(2)
107	540.51	121.01	End Shut-In(2)
108	2384.82	121.01	Final Hydro-static

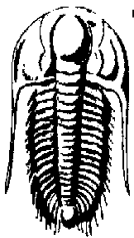
Recovery

Length (ft)	Description	Volume (bbl)
65.00	100% Mud	0.32

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum, Inc.

33-10s-34w Thomas, KS

88 Inverness Cir, E Unit F 104
Englewood, CO 80112-5514

Epard #2-33

Job Ticket: 53081

DST#: 3

ATTN: Bob Elder

Test Start: 2013.06.25 @ 19:45:00

GENERAL INFORMATION:

Formation: **Johnson Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:29:15

Time Test Ended: 01:09:45

Interval: 4706.00 ft (KB) To 4758.00 ft (KB) (TVD)

Total Depth: 4758.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Reference Elevations: 3266.00 ft (KB)

3261.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8650 Outside

Press @ Run Depth: psig @ 4707.00 ft (KB)

Start Date: 2013.06.25

End Date: 2013.06.26

Capacity: 8000.00 psig

Last Calib.: 2013.06.26

Start Time: 19:45:15

End Time: 01:09:30

Time On Btm:

Time Off Btm:

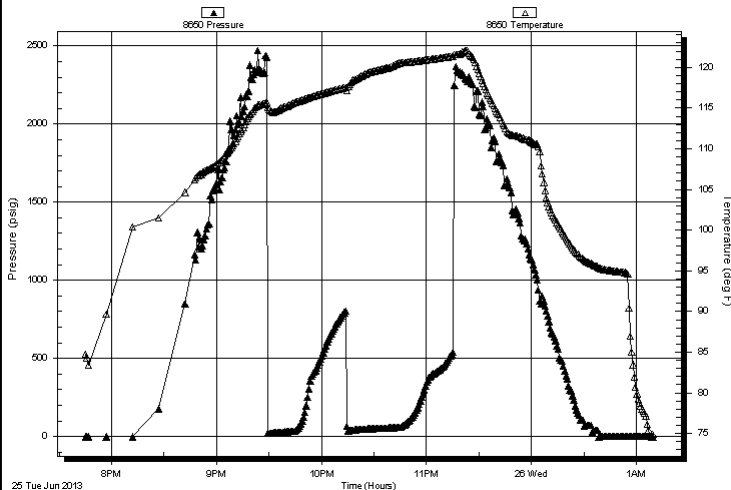
TEST COMMENT: Built to 1/2" blow

No return blow

No blow

No return blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	100% Mud	0.32

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.

33-10s-34w Thomas,KS

88 Inverness Cir, E Unit F 104
Englewood, CO 80112-5514

Epard #2-33

Job Ticket: 53081

DST#: 3

ATTN: Bob Elder

Test Start: 2013.06.25 @ 19:45:00

Tool Information

Drill Pipe:	Length: 4571.96 ft	Diameter: 3.80 inches	Volume: 64.13 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 123.17 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 64.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.63 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4706.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	79.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4679.50	
Shut In Tool	5.00			4684.50	
Hydraulic tool	5.00			4689.50	
Jars	5.00			4694.50	
Safety Joint	2.50			4697.00	
Packer	5.00			4702.00	27.50 Bottom Of Top Packer
Packer	4.00			4706.00	
Stubb	1.00			4707.00	
Recorder	0.00	8675	Inside	4707.00	
Recorder	0.00	8650	Outside	4707.00	
Perforations	14.00			4721.00	
Change Over Sub	1.00			4722.00	
Drill Pipe	32.00			4754.00	
Change Over Sub	1.00			4755.00	
Bullnose	3.00			4758.00	52.00 Bottom Packers & Anchor

Total Tool Length: 79.50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum, Inc.

33-10s-34w Thomas,KS

88 Inverness Cir, E Unit F 104
Englewood, CO 80112-5514

Epard #2-33

Job Ticket: 53081

DST#: 3

ATTN: Bob Elder

Test Start: 2013.06.25 @ 19:45:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	100% Mud	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:

Serial #: 8675

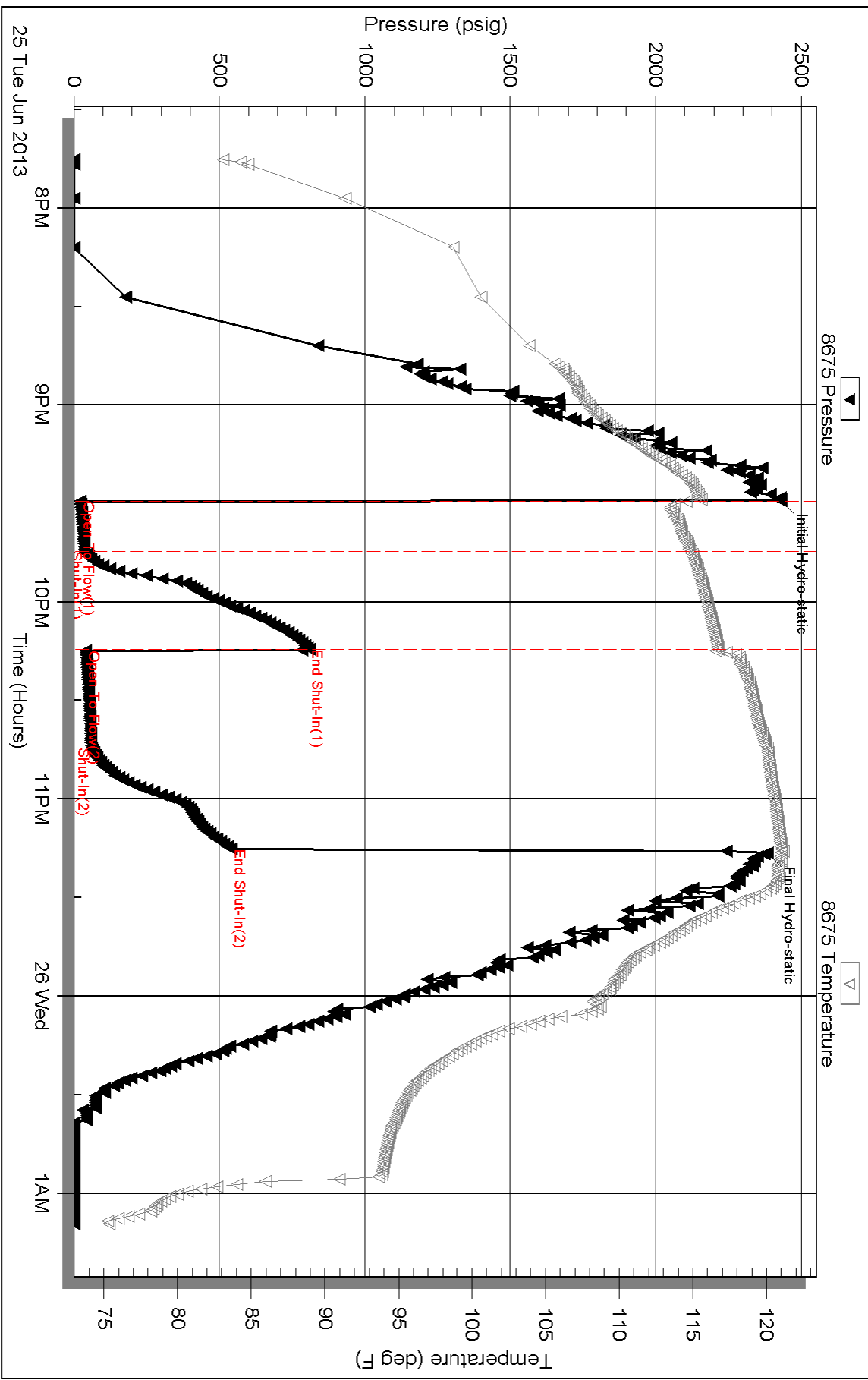
Inside

Norstar Petroleum, Inc.

Epard #2-33

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 53081

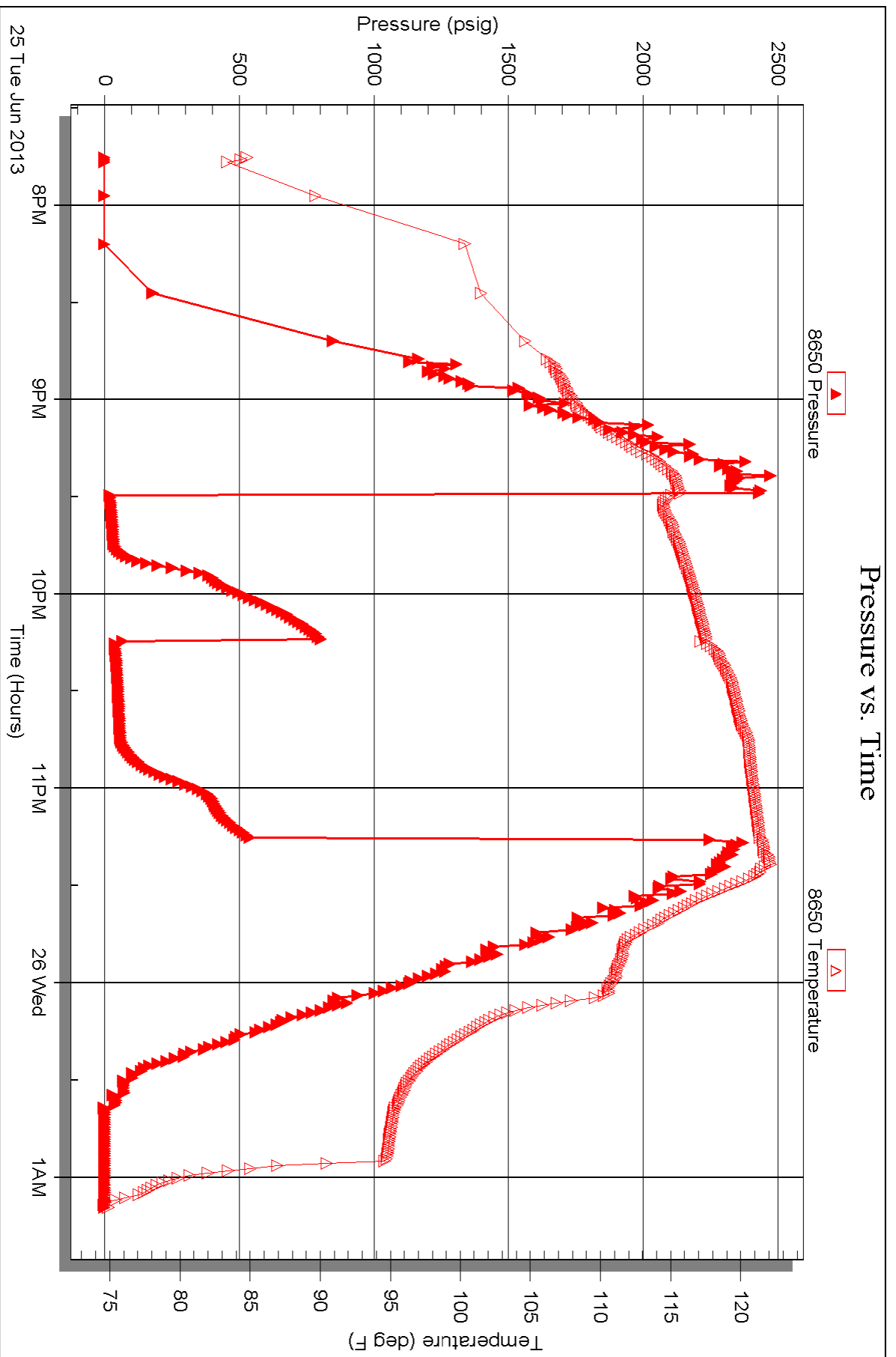
Printed: 2013.06.26 @ 15:25:12

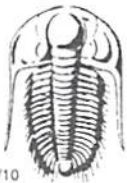
Serial #: 8650

Outside Norstar Petroleum, Inc.

Epard #2-33

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53079

Well Name & No. Edward # 2-33 Test No. 1 Date 8/23/13
 Company Norstar Petroleum Inc Elevation 3266 KB 3261 GL
 Address 88 Inverness Cir. E Unit F104 Englewood Co. 80112-5514
 Co. Rep / Geo. Bob Elder Rig WOW Rig 8
 Location: Sec. 33 Twp. 10S Rge. 34W Co. Thomas Co. State KS

Interval Tested 4310 - 4392 Zone Tested Kansas City "A, I, J"
 Anchor Length 82 Drill Pipe Run 4190.30 Mud Wt. 9.2
 Top Packer Depth 4306 Drill Collars Run 123.17 Vis 64
 Bottom Packer Depth 4310 Wt. Pipe Run _____ WL 8.8
 Total Depth 4392 Chlorides 6,500 ppm System LCM 1#

Blow Description Built to 11" below
Bled off for 4 min. no return below
B.O.B. in 20 min.

Bled off for 5 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>108</u>	<u>Feet of WCM with oil scum</u>		<u>40</u>	<u>60</u>	
<u>189</u>	<u>Feet of MCW</u>		<u>70</u>	<u>30</u>	
<u>249</u>	<u>Feet of water</u>		<u>100</u>		
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 546 BHT 125 Gravity _____ API RW 0.1 @ 100 °F Chlorides 50,000 ppm

(A) Initial Hydrostatic 2,251 Test 1250 T-On Location 8:25
 (B) First Initial Flow 37 Jars 250 T-Started 10:05
 (C) First Final Flow 119 Safety Joint 75 T-Open 12:25
 (D) Initial Shut-In 1,232 Circ Sub W/C T-Pulled 15:40
 (E) Second Initial Flow 127 Hourly Standby _____ T-Out 17:45
 (F) Second Final Flow 275 Mileage 130 RT 201.50 Comments _____
 (G) Final Shut-In 1,240 Sampler _____
 (H) Final Hydrostatic 2,187 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 15 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1776.50
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1776.50

Approved By _____ 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. 53080

Well Name & No. Epard # 2-33 Test No. 2 Date 6/24/13
 Company Norstar Petroleum, Inc Elevation 3266 KB 3266 GL
 Address 88 Inverness Cir. E Unit F104 Englewood CO 80112-5514
 Co. Rep / Geo. Bob Elder Rig LW Rig 8
 Location: Sec. 33 Twp. 10s Rge. 34w Co. Thomas Co. State K5

Interval Tested 4397 - 4426 Zone Tested Kansas City "K"
 Anchor Length 29 Drill Pipe Run 4253.35 Mud Wt. 9.3
 Top Packer Depth 4393 Drill Collars Run 123.17 Vis 63
 Bottom Packer Depth 4397 Wt. Pipe Run 12 WL 9.2
 Total Depth 4426 Chlorides 6,800 ppm System LCM 1

Blow Description Built to 2 1/4" below
No return below
Built to 1/2" below
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>wcm with oil seam</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	Feet of	%gas	%oil	%water	%mud

Rec Total 140 BHT 120 Gravity — API RW 20 @ 80 ° F Chlorides 30,000 ppm
 (A) Initial Hydrostatic 2,214 Test 1250 T-On Location 2:25
 (B) First Initial Flow 33 Jars 250 T-Started 3:25
 (C) First Final Flow 53 Safety Joint 75 T-Open 5:16
 (D) Initial Shut-In 461 Circ Sub N/C T-Pulled 7:46
 (E) Second Initial Flow 55 Hourly Standby _____ T-Out 9:37
 (F) Second Final Flow 84 Mileage 130 BT 201.50
 (G) Final Shut-In 458 Sampler _____
 (H) Final Hydrostatic 2,136 Straddle _____

Initial Open 15 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Shale Packer _____ Ruined Packer _____
 Final Flow 45 Extra Packer _____ Extra Copies _____
 Final Shut-In 60 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1776.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1776.50

Approved By _____ 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. 53081

Well Name & No. Card # 2-33 Test No. 3 Date 6/25/13 6/26/13
 Company Norstar Petroleum, Inc Elevation 3266 KB 3261 GL
 Address 88 Inverness Cir. E Unit F104 Englewood CO. 80112-5514
 Co. Rep / Geo. Bole Elder Rig WW Rig 8
 Location: Sec. 33 Twp. 10s Rge. 34w Co. Thomas CO. State K5

Interval Tested 4706-4758 Zone Tested Johnson Zone
 Anchor Length 52 Drill Pipe Run 4571.96 Mud Wt. 9.3
 Top Packer Depth 4702 Drill Collars Run 123.17 Vis 59
 Bottom Packer Depth 4706 Wt. Pipe Run _____ WL 12.4
 Total Depth 4758 Chlorides 8,800 ppm System LCM 1.5

Blow Description Built to 1/2" below
no return below
NO below
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 65 BHT 121 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2,429 Test 1250 T-On Location 19:25
 (B) First Initial Flow 23 Jars 250 T-Started 19:45
 (C) First Final Flow 36 Safety Joint 75 T-Open 21:30
 (D) Initial Shut-In 808 Circ Sub N/C T-Pulled 23:15
 (E) Second Initial Flow 40 Hourly Standby 10hrs T-Out 01:10
 (F) Second Final Flow 60 Mileage 130 RT 201.50
 (G) Final Shut-In 541 Sampler _____
 (H) Final Hydrostatic 2,385 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____

Initial Open 15 Day Standby 1d 10h Sub Total 333.33
 Initial Shut-In 30 Accessibility _____ Total 2109.83
 Final Flow 30 MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1776.50

Approved By _____ 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.