

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1241385
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
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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: _____

1241385

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
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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				

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: _____ _____
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. **683**

Date <u>11-4-14</u>	Sec <u>22</u>	Twp. <u>11</u>	Range <u>15</u>	County <u>Russell</u>	State <u>KS</u>	On Location	Finish <u>4:30 PM</u>
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Location Enlight Ranch, 2N, 1 1/2E, N1/2

Lease <u>Miller</u>	Well No. <u>1</u>	Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor <u>Express</u>		
Type Job <u>Port collar</u>		
Hole Size	T.D.	Charge To <u>Bruggardt Oil</u>
Csg. <u>5 1/2</u>	Depth	Street
Tbg. Size <u>2 3/8</u>	Depth	City
Top <u>Port collar</u>	Depth <u>420</u>	State
Cement Left in Csg.	Shoe joint	The above was done to satisfaction and supervision of owner agent or contractor
Meas Line	Displace	Cement Amount Ordered <u>200 sx com, 4 1/2 gal, 1/4 Flow</u>

EQUIPMENT

Pumptrk <u>17</u>	No.	Cementier Helper <u>Louise</u>	Common <u>140</u>
Bulktrk <u>14</u>	No.	Driver <u>Billy</u>	Poz. Mix
Bulktrk <u>P4</u>	No.	Driver <u>Travis</u>	Gel. <u>7</u>
			Calcium

JOB SERVICES & REMARKS

Remarks	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal <u>50#</u>
Centralizers	Kol-Seal
Baskets	Mud CLR 48
DIV or Port Collar	CFL-117 or CD110 CAF 38
<u>Tested test to 800 psi, D paid top</u>	Sand
<u>Mixed 140 sx displaced. Closed test</u>	Handling <u>200</u>
<u>tested to 800 psi. Run in and washed clean</u>	Miscs

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge part collar
Mileage 23

Tax
Discount
Total Charge

Signature Therry W. Piesher

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Call 785-524-1041

Home Office P.O. Box 32 Russell, KS 67865

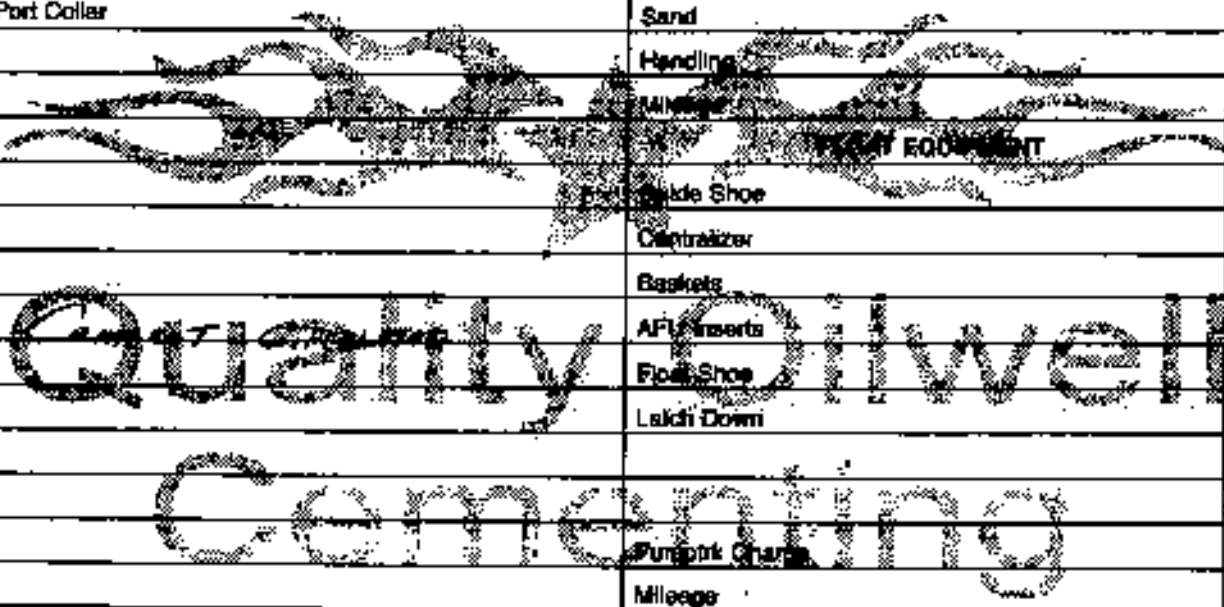
No. 818

Date	Sec.	Twp.	Range	County	State	On Location	Midnight Finish
10-14-14	22	11	15	Russell	KANSAS		12:00 PM
Lease Miller				Well No. 1		Location GOSHAWKS 1E 11N 15E 2N 1/2E	

Contractor	Shields Drilling	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.
Type Job	Surface	Charge To	BRUNGERD Oil Leasing, Inc.
Hole Size	12 1/4	T.O.	221
Csg.	9 5/8 New	Depth	221
Top Size	IT csg.	Depth	
Tool		Depth	
Cement Left in Csg.	15'	Shoe Joint	
Mess Line		Displace	12 / BBL
EQUIPMENT		Common	

Pumpjack	18	No.	Cement Helper	John G. Body E.	Poz. Mix
Bulldoz	14	No.	Driver	Lois M.	Gel
Bulldoz		No.	Driver		Calcium

JOB SERVICES & REMARKS		Hulls
Remarks:		Spl
Flat Hole		Fluwell
Mouse Hole		Kot-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
O/V or Port Collar		Sand
		Handling
		MINI



PUMP JACK		Slide Shoe
CENTRALIZER		Centralizer
BASKETS		Baskets
AFI INSERTS		AFI Inserts
FLAT SHOES		Flat Shoe
LATCH DOWN		Latch Down
PUMP JACK CHARGE		Pump Jack Charge
MILEAGE		Mileage
TAX		Tax
DISCOUNT		Discount
TOTAL CHARGE		Total Charge

THANKS

Signature *[Handwritten Signature]*

LITHOLOGY STRIP LOG

WellSight Systems

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Miller #1
 API: 15-167-23941-00-00
 Location: SE-SW-NE-SE/4 Section 22-T11S-R15W
 License Number: 3956
 Spud Date: Oct. 14, 2014
 Surface Coordinates: 1370' FSL & 860' FEL Section 22-T11S-R15W

Region: Russell Co, KS
 Drilling Completed: Oct. 21, 2014

Bottom Hole Coordinates:
 Ground Elevation (ft): 1849' K.B. Elevation (ft): 1854'
 Logged Interval (ft): NTD To: TD Total Depth (ft): 3400
 Formation:
 Type of Drilling Fluid: Chemical Displaced at 2600'

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Brungardt Oil and Leasing Inc.
 Address: 213 W. 7th St.
 P.O. Box 871
 Russell, KS 67685 +1731

GEOLOGIST

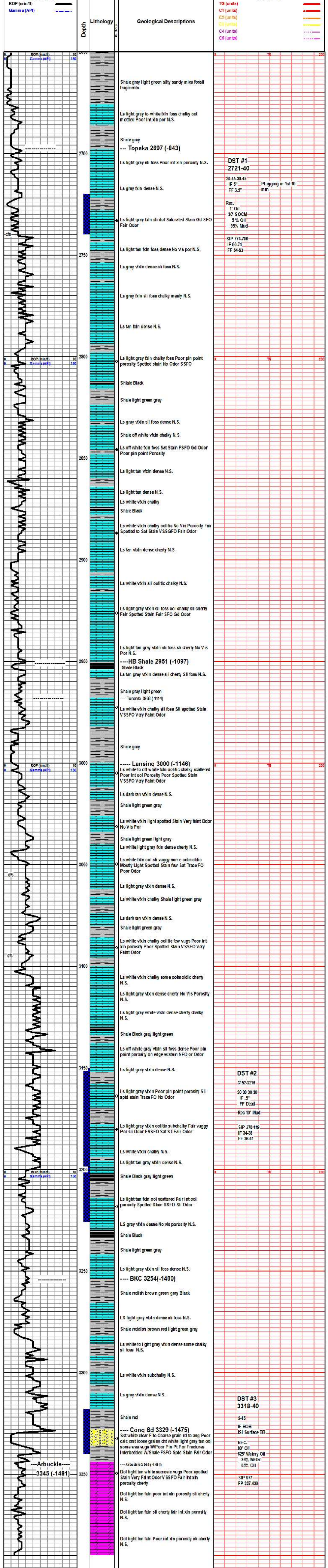
Name: Roger L. Fisher
 Company: Consulting Geologist
 Address: 2610 W. Rio Vista
 Wichita Kansas, 67204

COMMENTS

Shields Rig #1
 Surface Casing: 220' of 8 7/8"
 Andy's Mud Co
 OH Logs: Pioneer Wireline; DILL, CDL/CNL, Micro
 Triobite Testing
 Surveys:
 220' .25 degree
 2740' 1 degree
 Strap .65 Long to Board at 2740'

ROCK TYPES

<ul style="list-style-type: none"> Anhy Bent Brec Cht Cyst Coal 	<ul style="list-style-type: none"> Congl Sdy dolo SHY dolo Dol Gyp Sdy lmst 	<ul style="list-style-type: none"> Lmst Mrlst Salt Shale Siltst Ss 	<ul style="list-style-type: none"> Black sh Gry sh Shale Shylstst Silysh
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Brungardt Oil & Leasing, Inc.

22-11S-15W Russell, KS

213 W 7th
PO Box 871
Russell, KS 67665
ATTN: Roger Fischer

Miller #1

Job Ticket: 60921

DST#: 1

Test Start: 2014.10.17 @ 18:32:30

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:39:30

Time Test Ended: 01:42:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 2721.00 ft (KB) To 2740.00 ft (KB) (TVD)

Reference Elevations: 1854.00 ft (KB)

Total Depth: 2740.00 ft (KB) (TVD)

1849.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8651 Inside

Press @ Run Depth: 62.62 psig @ 2722.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.17

End Date:

2014.10.18

Last Calib.: 2014.10.18

Start Time: 18:32:31

End Time:

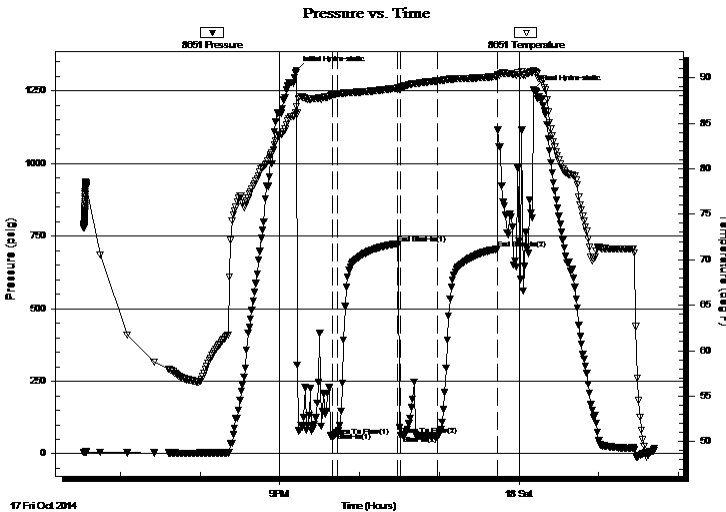
01:42:30

Time On Btm: 2014.10.17 @ 21:12:30

Time Off Btm: 2014.10.18 @ 00:11:00

TEST COMMENT: 30- IF- Slow ly built to 5"
45- IS- No blow
30- FF- Slow ly built to 3.5"
45- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1320.96	86.83	Initial Hydro-static
27	60.42	88.12	Open To Flow (1)
31	74.01	88.22	Shut-In(1)
76	724.29	88.85	End Shut-In(1)
79	64.00	88.91	Open To Flow (2)
107	62.62	89.65	Shut-In(2)
151	705.99	90.13	End Shut-In(2)
179	1255.08	90.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	CO	0.01
30.00	SOCM, 5%O 95%M	0.22

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil & Leasing, Inc.

22-11S-15W Russell, KS

213 W 7th
PO Box 871
Russell, KS 67665
ATTN: Roger Fischer

Miller #1

Job Ticket: 60921

DST#: 1

Test Start: 2014.10.17 @ 18:32:30

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 6.00 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	CO	0.007
30.00	SOCM, 5%O 95%M	0.220

Total Length: 31.00 ft Total Volume: 0.227 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8651

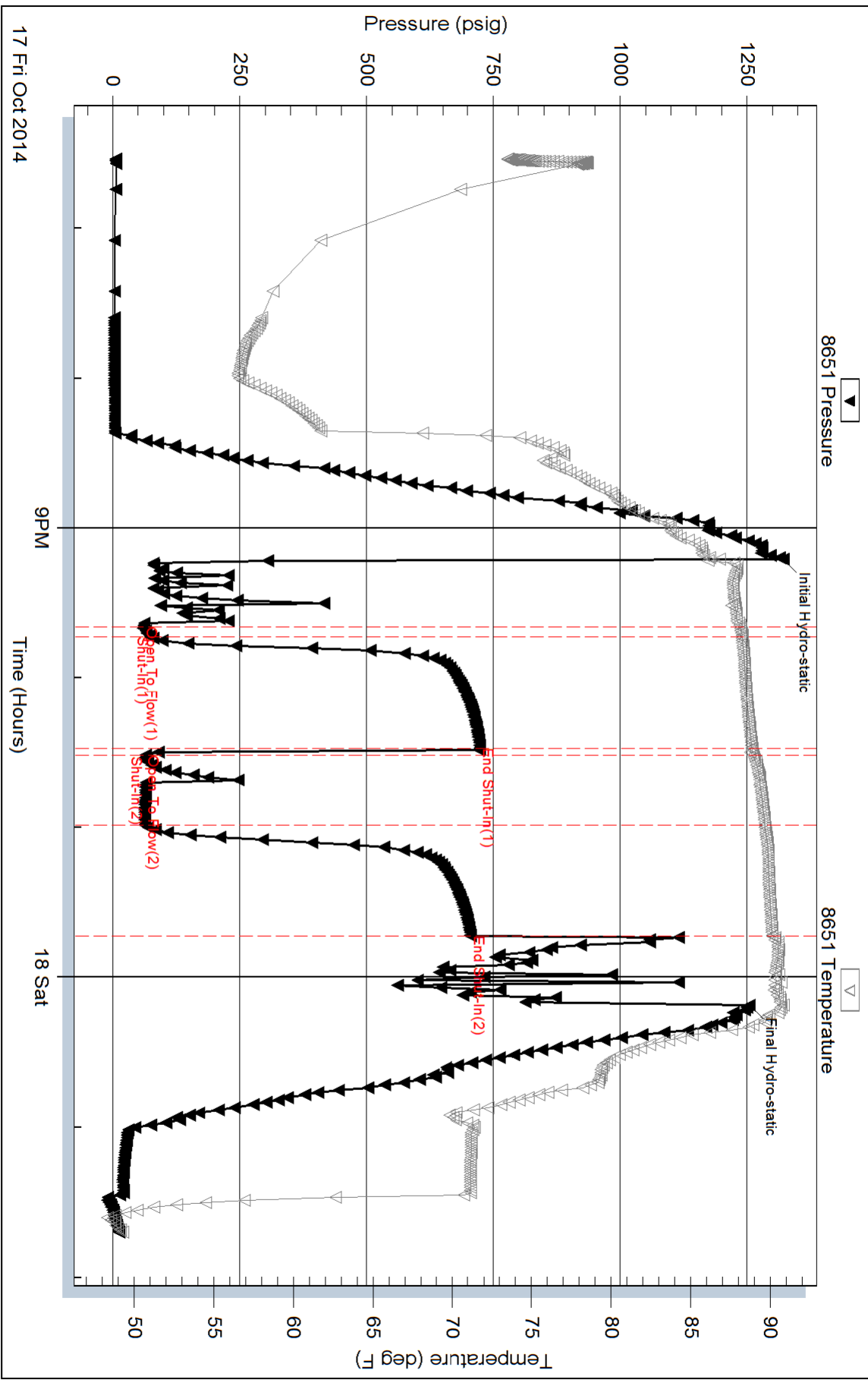
Inside

Brungardt Oil & Leasing, Inc.

Miller #1

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 60921

Printed: 2014.10.18 @ 23:14:09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Brungardt Oil & Leasing, Inc.

22-11S-15W Russell, KS

213 W 7th
PO Box 871
Russell, KS 67665
ATTN: Roger Fischer

Miller #1

Job Ticket: 60922

DST#: 2

Test Start: 2014.10.19 @ 12:54:36

GENERAL INFORMATION:

Formation: **KC- "I-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:17:36

Time Test Ended: 17:34:06

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 3150.00 ft (KB) To 3225.00 ft (KB) (TVD)

Reference Elevations: 1854.00 ft (KB)

Total Depth: 3225.00 ft (KB) (TVD)

1849.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8651

Inside

Press @ Run Depth: 41.39 psig @ 3151.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.19

End Date:

2014.10.19

Last Calib.: 2014.10.19

Start Time: 12:54:37

End Time:

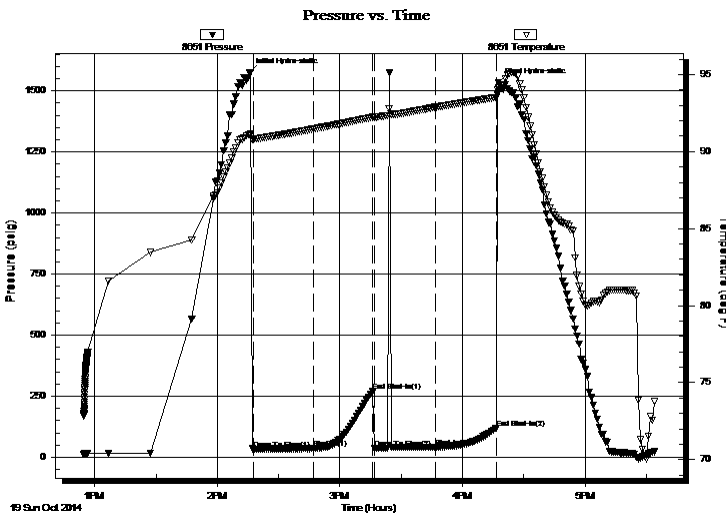
17:34:06

Time On Btm: 2014.10.19 @ 14:15:36

Time Off Btm: 2014.10.19 @ 16:17:36

TEST COMMENT: 30- IF- .5" blow throughout
30- IS- No blow
30- FF- No blow Flushed tool No blow
30- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1575.33	91.12	Initial Hydro-static
2	33.97	90.86	Open To Flow (1)
32	35.76	91.47	Shut-In(1)
61	269.94	92.23	End Shut-In(1)
62	36.60	92.23	Open To Flow (2)
91	41.39	92.87	Shut-In(2)
121	119.58	93.52	End Shut-In(2)
122	1534.64	94.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil & Leasing, Inc.

22-11S-15W Russell, KS

213 W 7th
PO Box 871
Russell, KS 67665
ATTN: Roger Fischer

Miller #1

Job Ticket: 60922

DST#: 2

Test Start: 2014.10.19 @ 12:54:36

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 6500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M	0.073

Total Length: 10.00 ft Total Volume: 0.073 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

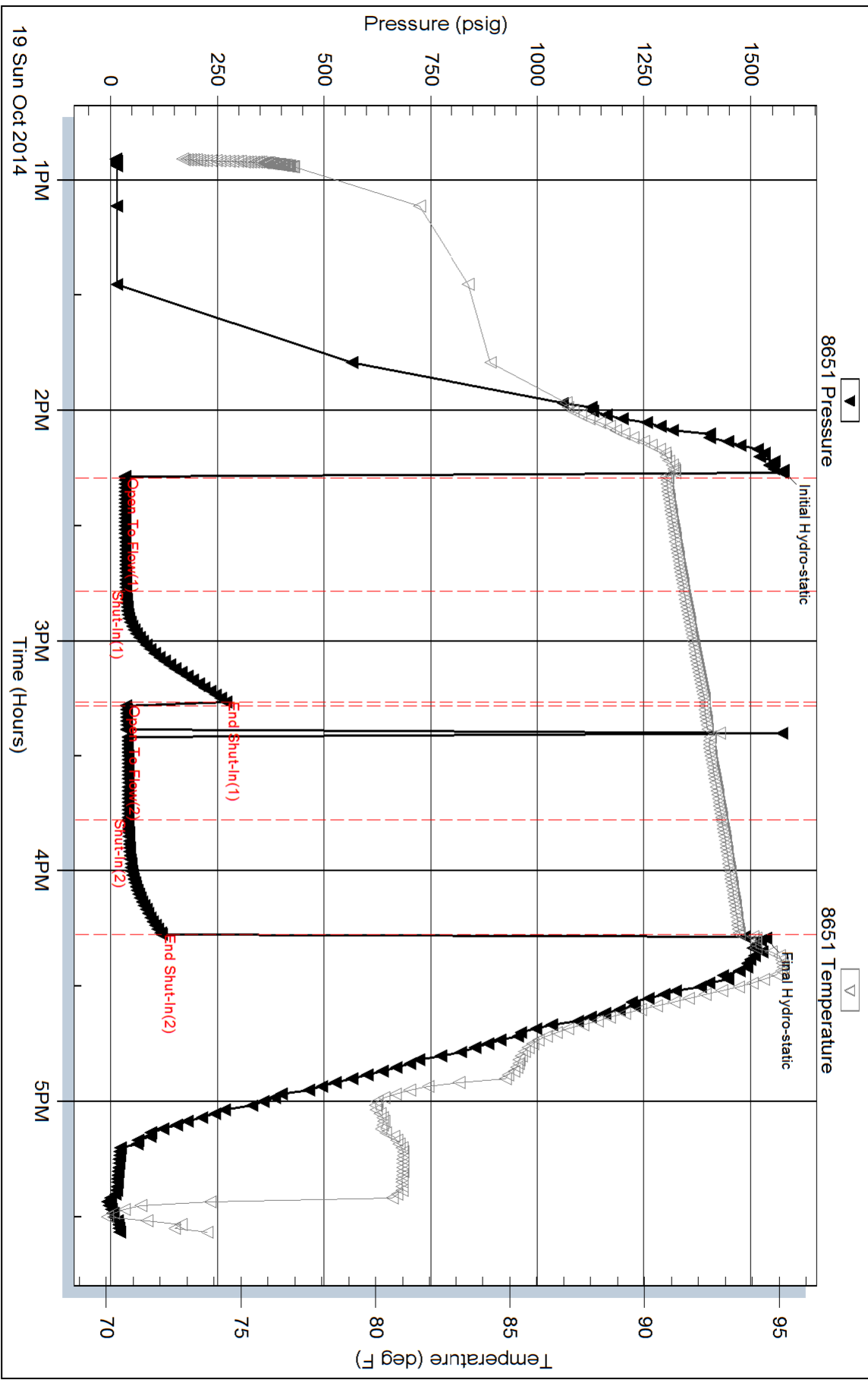
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brungardt Oil & Leasing, Inc.

22-11S-15W Russell, KS

213 W 7th
PO Box 871
Russell, KS 67665
ATTN: Roger Fischer

Miller #1

Job Ticket: 60923

DST#: 3

Test Start: 2014.10.20 @ 05:52:53

GENERAL INFORMATION:

Formation: **Cong. Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:43:53

Time Test Ended: 10:18:23

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 3318.00 ft (KB) To 3340.00 ft (KB) (TVD)

Reference Elevations: 1854.00 ft (KB)

Total Depth: 3340.00 ft (KB) (TVD)

1849.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8651

Inside

Press@RunDepth: 430.86 psig @ 3319.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.20

End Date:

2014.10.20

Last Calib.: 2014.10.20

Start Time: 05:52:54

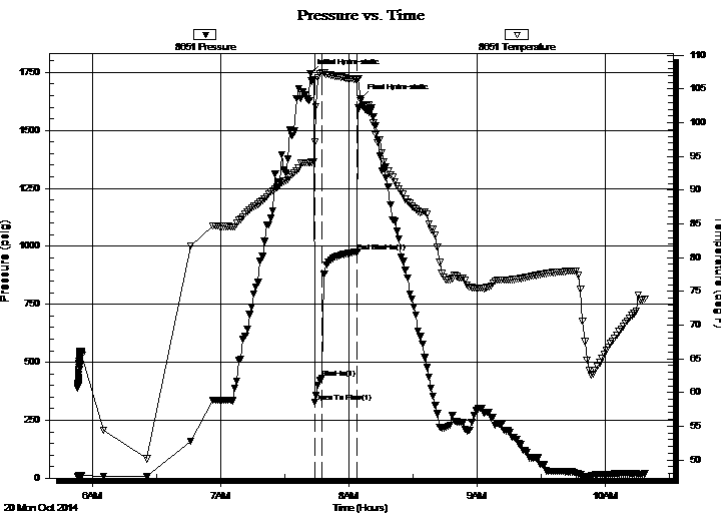
End Time:

10:18:23

Time On Btm: 2014.10.20 @ 07:41:53

Time Off Btm: 2014.10.20 @ 08:05:23

TEST COMMENT: 05- IF- BOB 10secs
15- IS- Surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1746.34	94.10	Initial Hydro-static
2	327.65	97.11	Open To Flow (1)
6	430.86	107.34	Shut-In(1)
22	976.96	106.41	End Shut-In(1)
24	1637.56	103.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	CO	0.59
625.00	WO, 35%W 65%O	6.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil & Leasing, Inc.

22-11S-15W Russell, KS

213 W 7th
PO Box 871
Russell, KS 67665
ATTN: Roger Fischer

Miller #1

Job Ticket: 60923

DST#: 3

Test Start: 2014.10.20 @ 05:52:53

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 6500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

27 deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	CO	0.588
625.00	WO, 35%W 65%O	6.101

Total Length: 705.00 ft Total Volume: 6.689 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8651

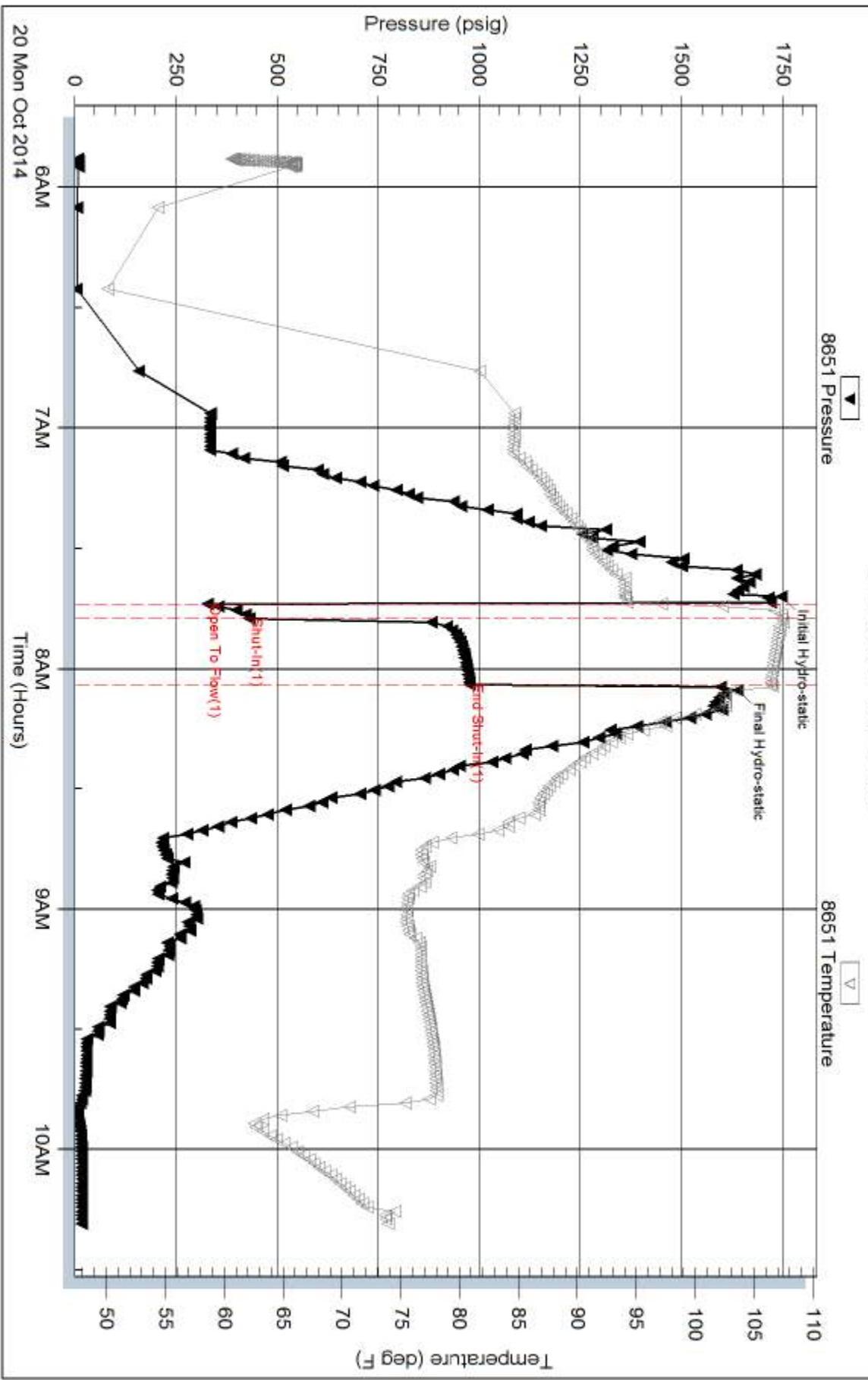
Inside

Brungardt Oil & Leasing, Inc.

Miller #1

DST Test Number: 3

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 60923

Printed: 2014, 10, 20 @ 12:00:21