



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1233543
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: _____

1233543

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: _____ _____
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Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Joseph 35-1
Doc ID	1233543

All Electric Logs Run

COMPUTER PROCESSED INTERP
DUAL INDUCTION
DUAL COMPENSATED POROSITY
MICRORESISTIVITY
SONIC BOND

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Joseph 35-1
Doc ID	1233543

Tops

Name	Top	Datum
ANHYDRITE	2585	+510
BASE ANHYDRITE	2605	+490
HEEBNER	4008	-913
TORONTO	4032	-937
LANSING	4050	-955
MUNCIE CREEK	4197	-1102
STARK SHALE	4284	-1189
HUSH SHALE	4313	-1218
BASE KC	4345	-1250
MARMATON	4388	-1293
PAWNEE	4482	-1387
MYRICK STATION	4518	-1423
FT SCOTT	4538	-1443
CHEROKEE SHALE	4565	-1470
JOHNSON	4608	-1513
MISSISSIPPI	4676	-1581
RTD	4730	-1635



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Russell Oil Inc
P.O. Box 8050
Edmond, Ok 73083
ATTN: Kitt Noah

35-12s-33w Logan Ks
Joseph 35-1
Job Ticket: 59029 **DST#: 1**
Test Start: 2014.08.27 @ 20:04:27

GENERAL INFORMATION:

Formation: **Toronto**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:48:57
Time Test Ended: 04:09:57
Interval: **4015.00 ft (KB) To 4065.00 ft (KB) (TVD)**
Total Depth: 4065.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 60
Reference Elevations: 3095.00 ft (KB)
3084.00 ft (CF)
KB to GR/CF: 11.00 ft

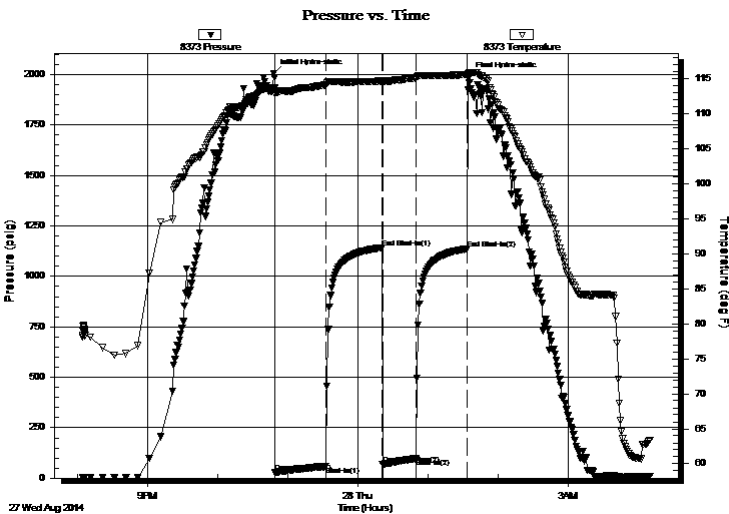
Serial #: 8373

Inside

Press@RunDepth: 96.72 psig @ 4016.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.08.27 End Date: 2014.08.28 Last Calib.: 2014.08.28
Start Time: 20:04:32 End Time: 04:09:56 Time On Btm: 2014.08.27 @ 22:47:57
Time Off Btm: 2014.08.28 @ 01:34:57

TEST COMMENT: IF: Surface blow built to 3/4 in 45 min.
IS: No return.
FF: No blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2006.42	113.56	Initial Hydro-static
1	27.34	112.87	Open To Flow (1)
45	58.78	114.05	Shut-In(1)
93	1142.10	114.60	End Shut-In(1)
93	69.71	114.26	Open To Flow (2)
122	96.72	115.02	Shut-In(2)
166	1136.64	115.53	End Shut-In(2)
167	1988.69	115.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	w cm 5%w 95%m	0.30
60.00	mud 100%m	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

35-12s-33w Logan Ks

P.O. Box 8050
Edmond, Ok 73083

Joseph 35-1

Job Ticket: 59029

DST#: 1

ATTN: Kitt Noah

Test Start: 2014.08.27 @ 20:04:27

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:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	w cm 5%w 95%m	0.295
60.00	mud 100%m	0.295

Total Length: 120.00 ft

Total Volume: 0.590 bbl

Num Fluid Samples: 0

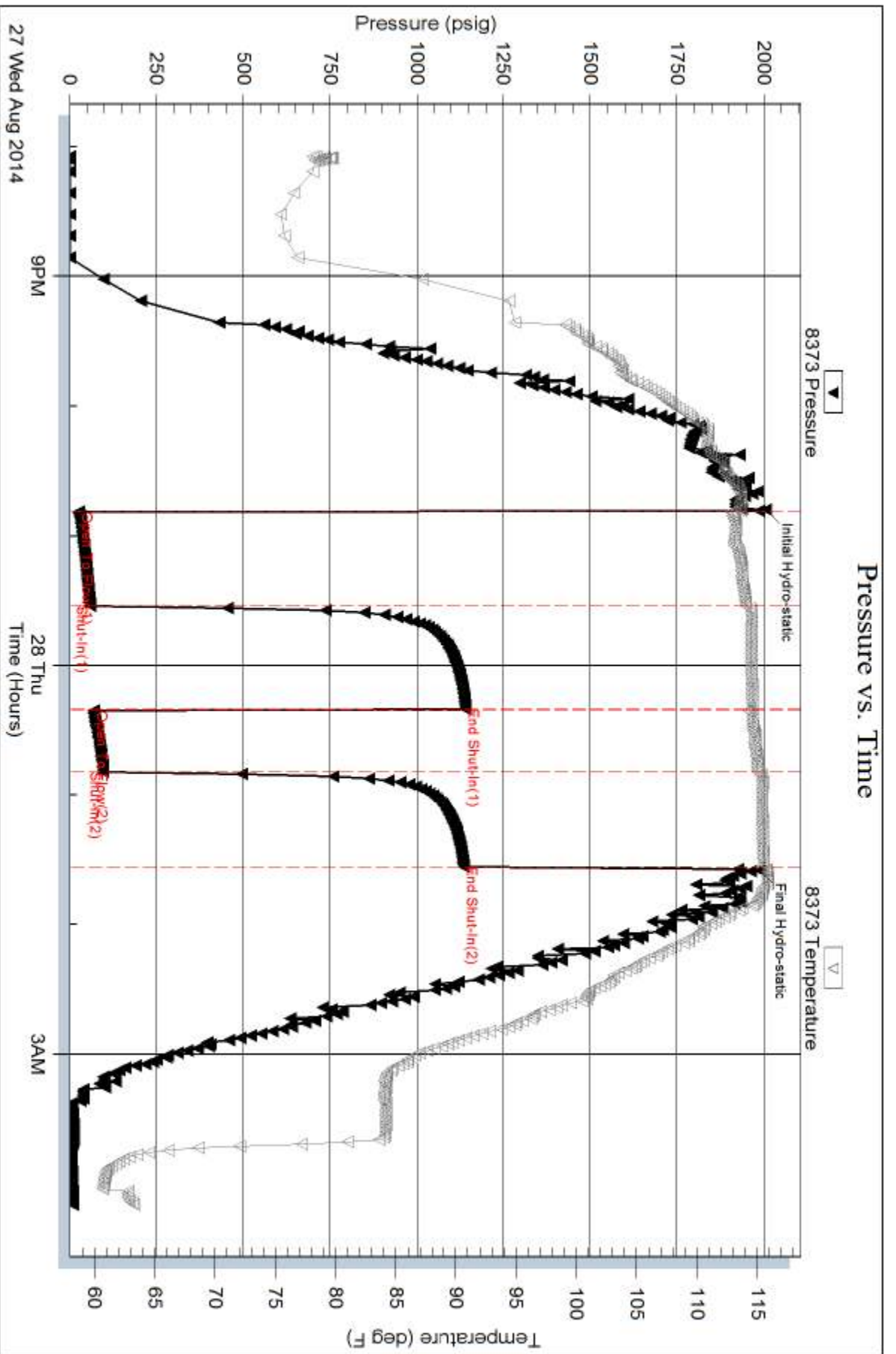
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Russell Oil Inc
 P.O. Box 8050
 Edmond, Ok 73083
 ATTN: Kitt Noah

35-12s-33w Logan Ks
Joseph 35-1
 Job Ticket: 59030 **DST#: 2**
 Test Start: 2014.08.28 @ 17:53:40

GENERAL INFORMATION:

Formation: **C-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:18:10
 Time Test Ended: 01:54:40
 Interval: **4084.00 ft (KB) To 4140.00 ft (KB) (TVD)**
 Total Depth: 4140.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 60
 Reference Elevations: 3095.00 ft (KB)
 3084.00 ft (CF)
 KB to GR/CF: 11.00 ft

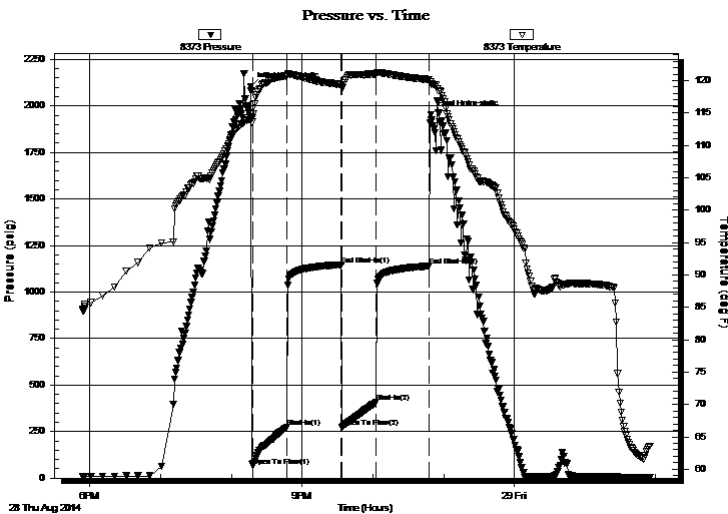
Serial #: 8373

Inside

Press@RunDepth: 407.35 psig @ 4085.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.28 End Date: 2014.08.29 Last Calib.: 2014.08.29
 Start Time: 17:53:45 End Time: 01:54:39 Time On Btm: 2014.08.28 @ 20:16:10
 Time Off Btm: 2014.08.28 @ 22:49:10

TEST COMMENT: IF: BOB in 9 min.
 IS: No return.
 FF: BOB in 12 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2103.10	113.99	Initial Hydro-static
2	66.36	114.25	Open To Flow (1)
31	273.37	120.70	Shut-In(1)
77	1147.77	119.38	End Shut-In(1)
78	273.64	118.98	Open To Flow (2)
107	407.35	121.01	Shut-In(2)
152	1140.21	120.15	End Shut-In(2)
153	1952.12	119.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
434.00	mcw 95%w 5%m	3.80
186.00	mcw 80%w 20%m	2.61
248.00	mcw 60%w 40%m	3.48

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

35-12s-33w Logan Ks

P.O. Box 8050
Edmond, Ok 73083

Joseph 35-1

Job Ticket: 59030

DST#: 2

ATTN: Kitt Noah

Test Start: 2014.08.28 @ 17:53:40

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:

40000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
434.00	mcw 95%w 5%m	3.801
186.00	mcw 80%w 20%m	2.609
248.00	mcw 60%w 40%m	3.479

Total Length: 868.00 ft Total Volume: 9.889 bbl

Num Fluid Samples: 0

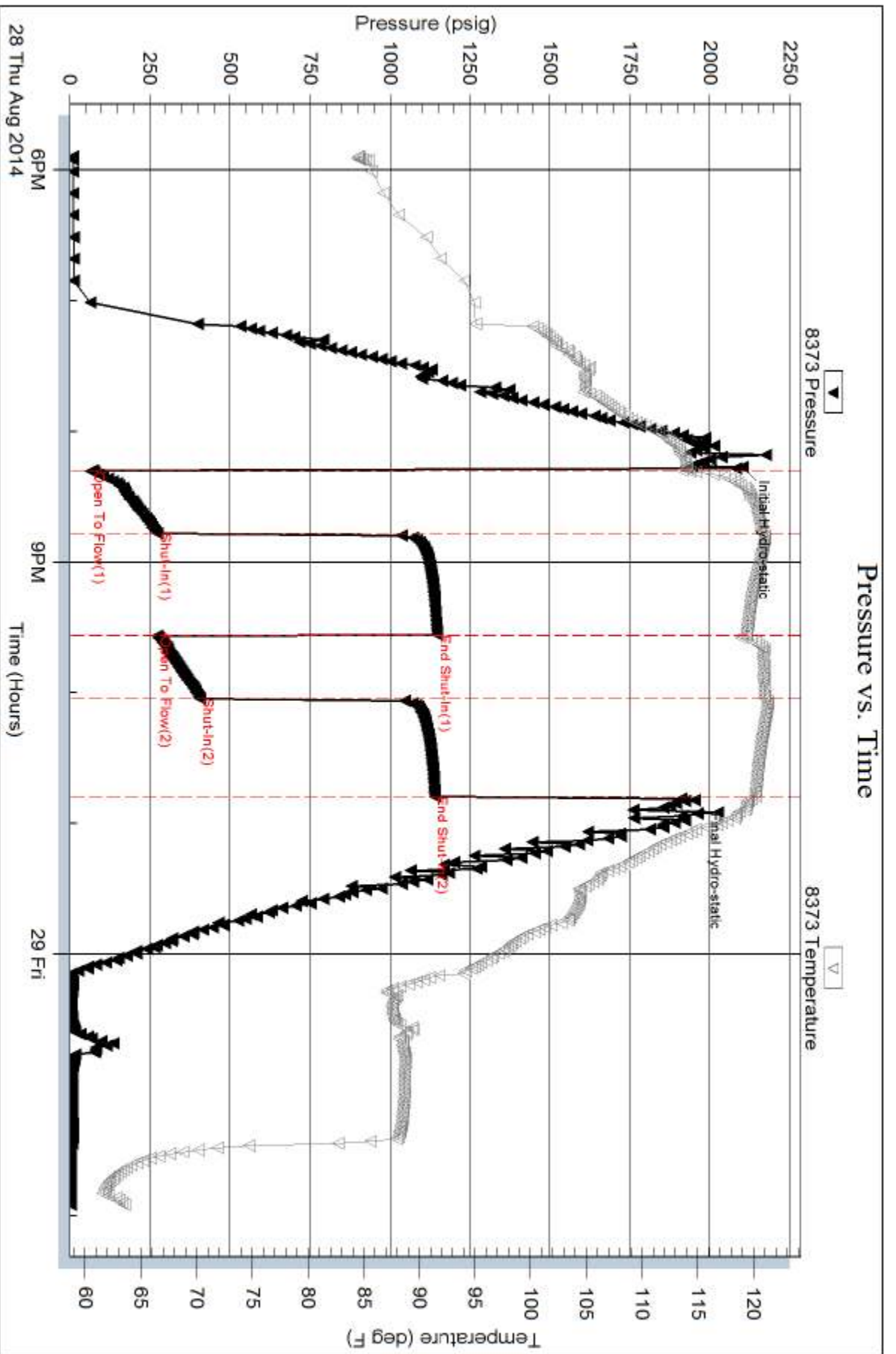
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .19@68=40000





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Russell Oil Inc
P.O. Box 8050
Edmond, Ok 73083
ATTN: Kitt Noah

35-12s-33w Logan Ks
Joseph 35-1
Job Ticket: 59031 **DST#: 3**
Test Start: 2014.08.29 @ 16:09:55

GENERAL INFORMATION:

Formation: **Lansing H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:13:25
Time Test Ended: 23:45:25
Interval: **4201.00 ft (KB) To 4240.00 ft (KB) (TVD)**
Total Depth: 4240.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 60
Reference Elevations: 3095.00 ft (KB)
3084.00 ft (CF)
KB to GR/CF: 11.00 ft

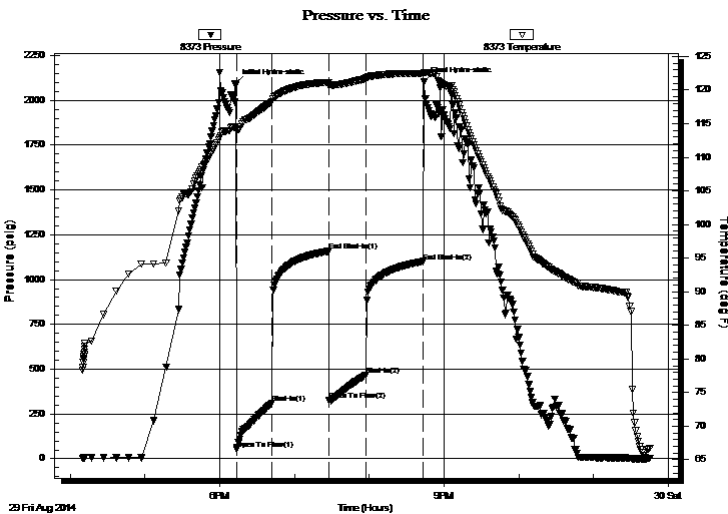
Serial #: 8373

Inside

Press@RunDepth: 468.10 psig @ 4202.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.08.29 End Date: 2014.08.29 Last Calib.: 2014.08.29
Start Time: 16:10:00 End Time: 23:45:24 Time On Btm: 2014.08.29 @ 18:12:25
Time Off Btm: 2014.08.29 @ 20:43:55

TEST COMMENT: IF: BOB in 5 1/2 min.
IS: No return.
FF: BOB in 7 min.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2093.17	114.57	Initial Hydro-static
1	53.48	113.89	Open To Flow (1)
30	310.17	118.27	Shut-In(1)
75	1158.15	121.13	End Shut-In(1)
76	324.95	120.63	Open To Flow (2)
105	468.10	121.66	Shut-In(2)
151	1100.57	122.41	End Shut-In(2)
152	2101.95	122.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
372.00	water 100%w	2.93
310.00	mcw 90%w 10%m	4.35
310.00	mcw show of oil on top 40%w 60%m	4.35

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

35-12s-33w Logan Ks

P.O. Box 8050
Edmond, Ok 73083

Joseph 35-1

Job Ticket: 59031

DST#: 3

ATTN: Kitt Noah

Test Start: 2014.08.29 @ 16:09:55

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:

25000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 12000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
372.00	water 100%w	2.932
310.00	mcw 90%w 10%m	4.348
310.00	mcw show of oil on top 40%w 60%m	4.348

Total Length: 992.00 ft Total Volume: 11.628 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

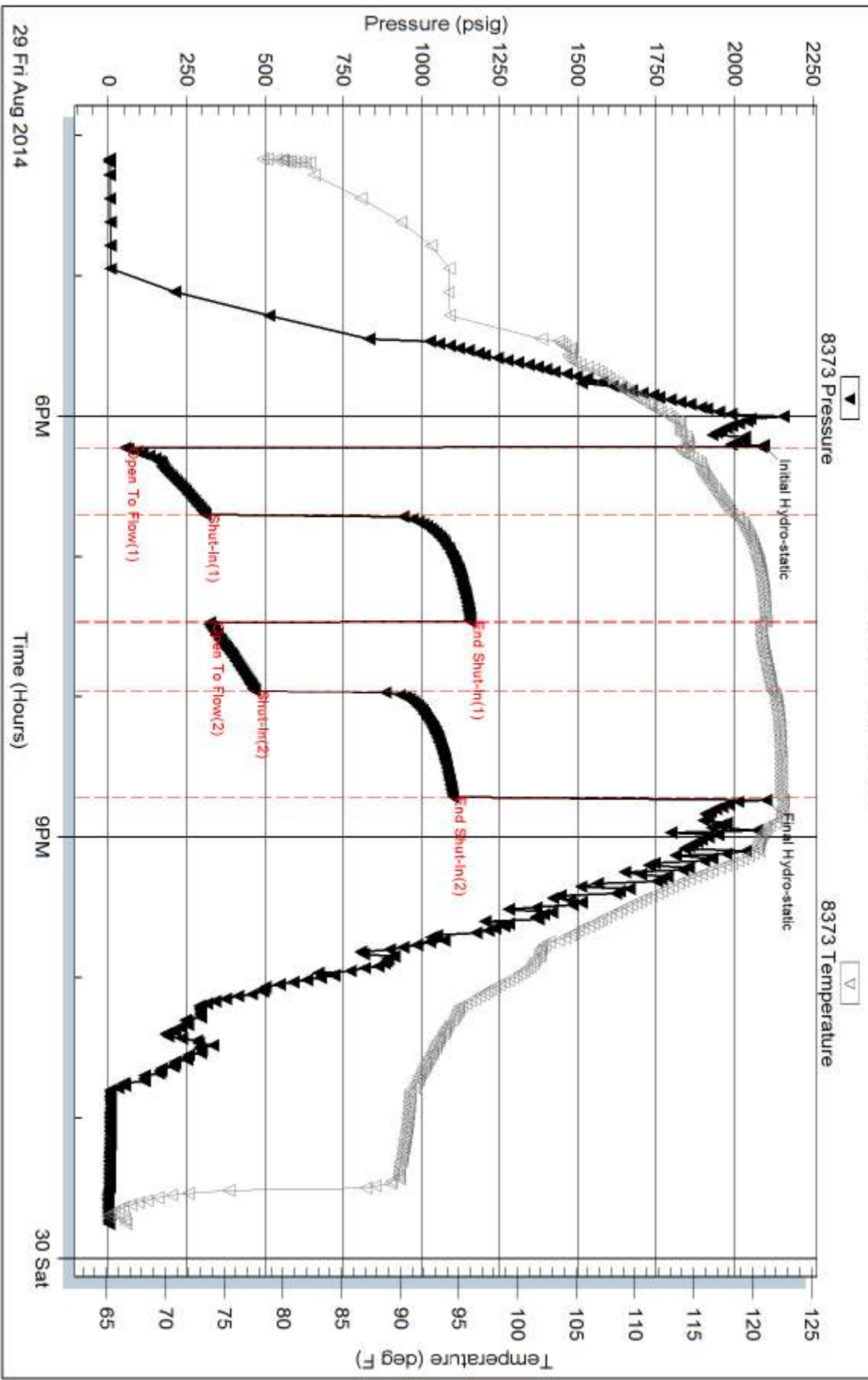
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .26@76=25000

Pressure vs. Time





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Russell Oil Inc
 P.O. Box 8050
 Edmond, Ok 73083
 ATTN: Kitt Noah

35-12s-33w Logan Ks
Joseph 35-1
 Job Ticket: 59032 **DST#: 4**
 Test Start: 2014.08.30 @ 08:38:29

GENERAL INFORMATION:

Formation: **LKC I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:54:29
 Time Test Ended: 16:59:29
Interval: 4234.00 ft (KB) To 4264.00 ft (KB) (TVD)
 Total Depth: 4264.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 60
 Reference Elevations: 3095.00 ft (KB)
 3084.00 ft (CF)
 KB to GR/CF: 11.00 ft

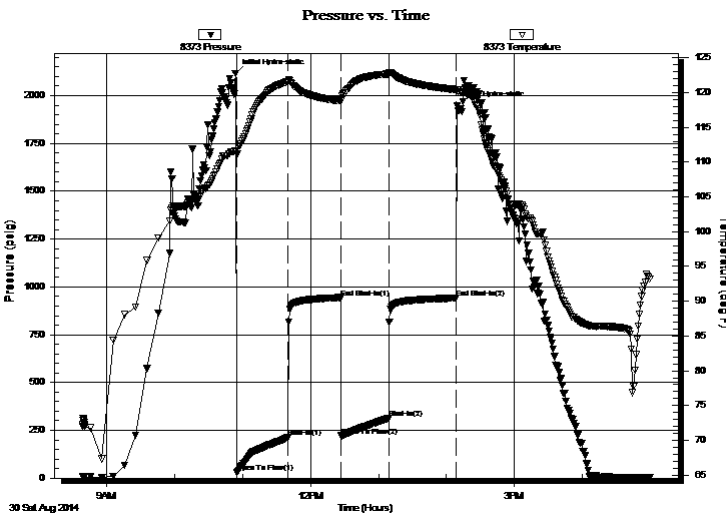
Serial #: 8373

Inside

Press@RunDepth: 314.33 psig @ 4235.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.30 End Date: 2014.08.30 Last Calib.: 2014.08.30
 Start Time: 08:38:34 End Time: 16:59:28 Time On Btm: 2014.08.30 @ 10:53:29
 Time Off Btm: 2014.08.30 @ 14:09:29

TEST COMMENT: IF: BOB in 38 min.
 IS: No return.
 FF: Surface blow built to 8 in 45 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2116.63	111.57	Initial Hydro-static
1	29.81	111.21	Open To Flow (1)
47	211.35	121.54	Shut-In(1)
93	944.01	118.77	End Shut-In(1)
94	220.76	118.95	Open To Flow (2)
136	314.33	122.67	Shut-In(2)
195	941.18	120.39	End Shut-In(2)
196	1945.40	120.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	mcw 95% w 5% m	2.06
186.00	mcw 80% w 20% m	2.61
186.00	mw oil spots 50% w 50% m	2.61

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

35-12s-33w Logan Ks

P.O. Box 8050
Edmond, Ok 73083

Joseph 35-1

Job Ticket: 59032

DST#: 4

ATTN: Kitt Noah

Test Start: 2014.08.30 @ 08:38:29

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:

15000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 12000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	mcw 95% w 5%m	2.062
186.00	mcw 80%w 20%m	2.609
186.00	mw oil spots 50%w 50%m	2.609

Total Length: 682.00 ft Total Volume: 7.280 bbl

Num Fluid Samples: 0

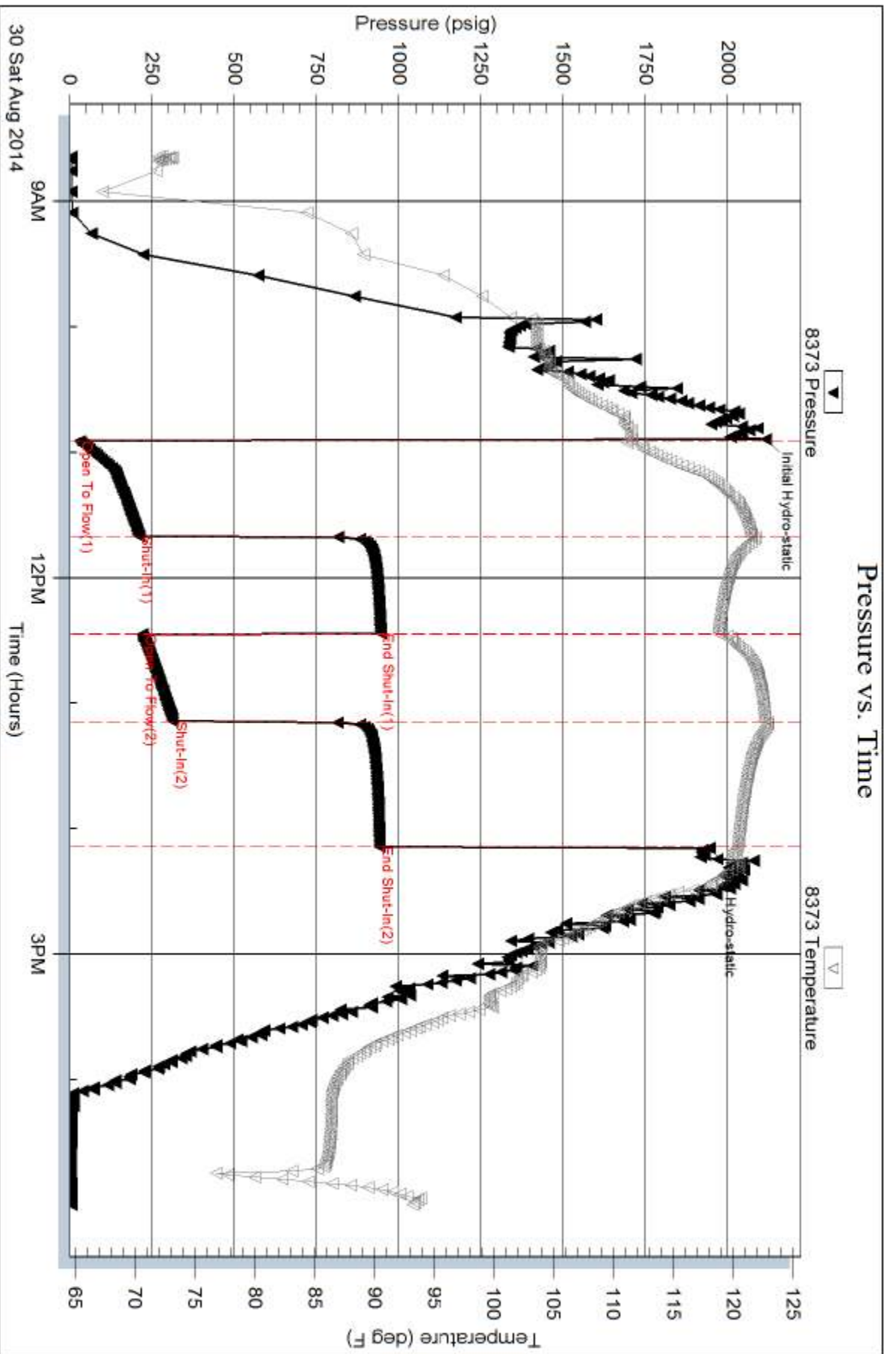
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .35@92=15000





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Russell Oil Inc
 P.O. Box 8050
 Edmond, Ok 73083
 ATTN: Kitt Noah

35-12s-33w Logan Ks
Joseph 35-1
 Job Ticket: 59033 **DST#: 5**
 Test Start: 2014.08.31 @ 02:50:17

GENERAL INFORMATION:

Formation: **LKC J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 05:42:47
 Tester: Brandon Turley
 Time Test Ended: 11:02:47
 Unit No: 60
 Interval: **4262.00 ft (KB) To 4292.00 ft (KB) (TVD)**
 Reference Elevations: 3095.00 ft (KB)
 Total Depth: 4292.00 ft (KB) (TVD)
 3084.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 11.00 ft

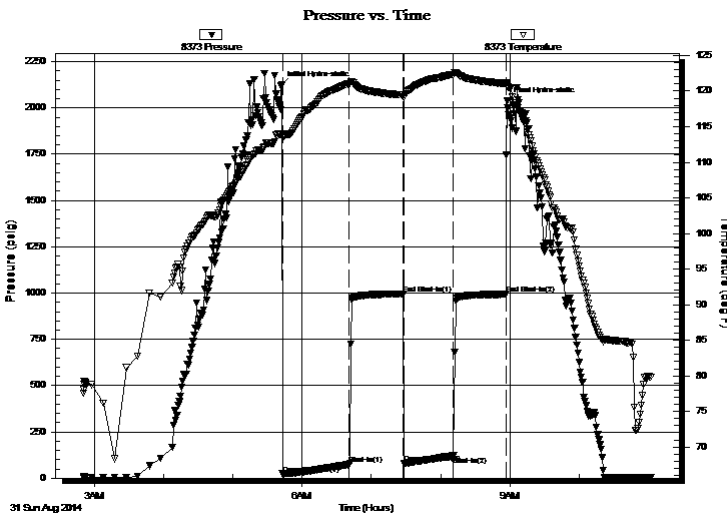
Serial #: 8373

Inside

Press@RunDepth: 120.82 psig @ 4263.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.31 End Date: 2014.08.31 Last Calib.: 2014.08.31
 Start Time: 02:50:22 End Time: 11:02:46 Time On Btm: 2014.08.31 @ 05:41:47
 Time Off Btm: 2014.08.31 @ 08:57:47

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2121.27	113.91	Initial Hydro-static
1	22.78	113.44	Open To Flow (1)
59	73.13	121.08	Shut-In(1)
106	996.06	119.44	End Shut-In(1)
107	79.57	119.04	Open To Flow (2)
150	120.82	122.34	Shut-In(2)
195	993.95	121.03	End Shut-In(2)
196	2037.03	120.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw 70%w 30%m	0.61
102.00	mcw 80%w 20%m	0.50
1.00	free oil 100%o Kitt said it smelled good	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

35-12s-33w Logan Ks

P.O. Box 8050
Edmond, Ok 73083

Joseph 35-1

Job Ticket: 59033

DST#: 5

ATTN: Kitt Noah

Test Start: 2014.08.31 @ 02:50:17

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:

11000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcw 70%w 30%m	0.610
102.00	mcw 80%w 20%m	0.502
1.00	free oil 100%o Kitt said it smelled good	0.005

Total Length: 227.00 ft Total Volume: 1.117 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .50@79=11000

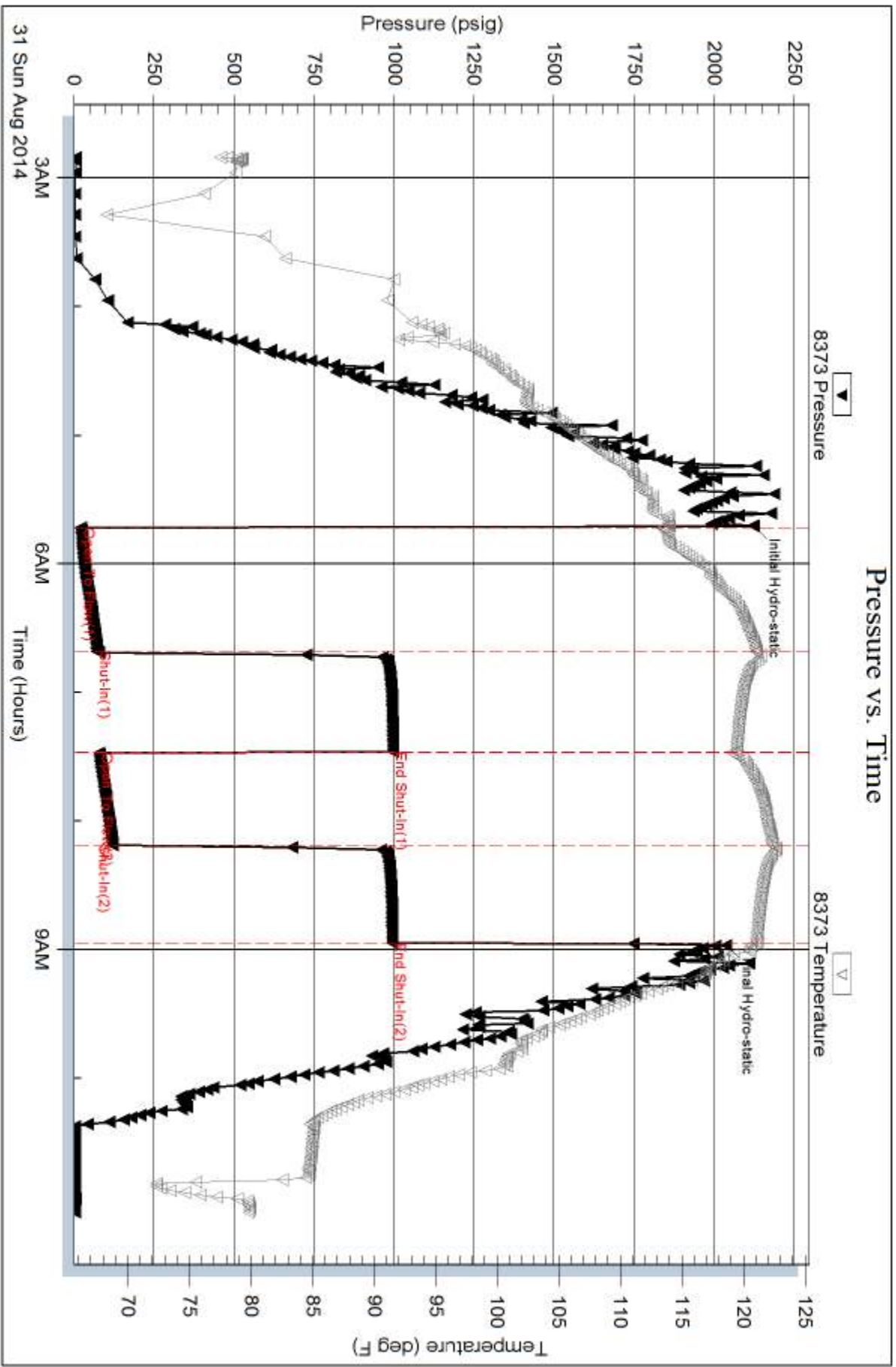
Serial #: 8373

Inside

Russell Oil Inc

Joseph 35-1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 59033

Printed: 2014.08.31 @ 22:56:32



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Russell Oil Inc
P.O. Box 8050
Edmond, Ok 73083
ATTN: Kitt Noah

35-12s-33w Logan Ks
Joseph 35-1
Job Ticket: 59034 **DST#: 6**
Test Start: 2014.08.31 @ 19:02:08

GENERAL INFORMATION:

Formation: **K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:05:08
Time Test Ended: 03:37:38
Interval: **4288.00 ft (KB) To 4320.00 ft (KB) (TVD)**
Total Depth: 4320.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 60
Reference Elevations: 3095.00 ft (KB)
3084.00 ft (CF)
KB to GR/CF: 11.00 ft

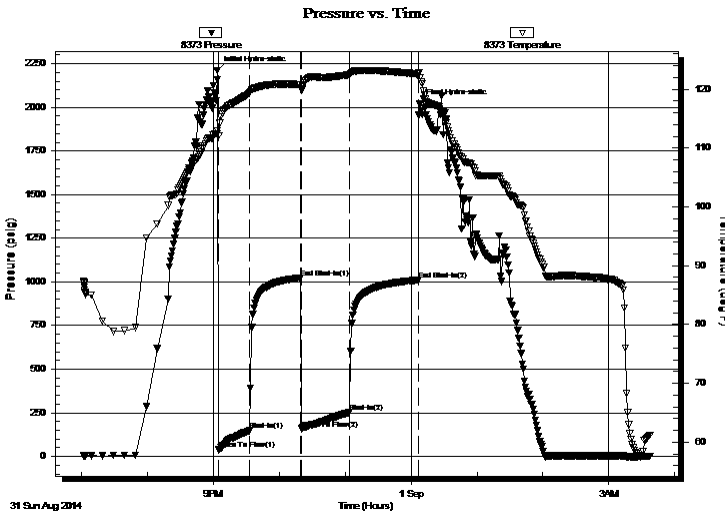
Serial #: 8373

Inside

Press @ Run Depth: 252.58 psig @ 4289.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.08.31 End Date: 2014.09.01 Last Calib.: 2014.09.01
Start Time: 19:02:13 End Time: 03:37:38 Time On Btm: 2014.08.31 @ 21:03:38
Time Off Btm: 2014.09.01 @ 00:08:08

TEST COMMENT: IF: BOB in 8 min.
IS: Surface blow built to 5.
FF: BOB in 12 min.
FS: Surface blow died in 15 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2211.65	112.39	Initial Hydro-static
2	38.55	112.12	Open To Flow (1)
30	148.02	119.33	Shut-In(1)
76	1022.62	120.78	End Shut-In(1)
77	157.89	119.81	Open To Flow (2)
121	252.58	122.46	Shut-In(2)
183	1010.77	122.56	End Shut-In(2)
185	2020.79	121.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	w mcgo 10%g 58%o 2%w 30%m	0.61
186.00	mcgo 30%g 60%o 10%m	1.45
186.00	go 30%g 70%o	2.61
155.00	go 10%g 90%o	2.17
0.00	GIP 620	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

35-12s-33w Logan Ks

P.O. Box 8050
Edmond, Ok 73083

Joseph 35-1

Job Ticket: 59034

DST#: 6

ATTN: Kitt Noah

Test Start: 2014.08.31 @ 19:02:08

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	w mcgo 10%g 58%o 2%w 30%m	0.610
186.00	mcgo 30%g 60%o 10%m	1.452
186.00	go 30%g 70%o	2.609
155.00	go 10%g 90%o	2.174
0.00	GIP 620	0.000

Total Length: 651.00 ft

Total Volume: 6.845 bbl

Num Fluid Samples: 0

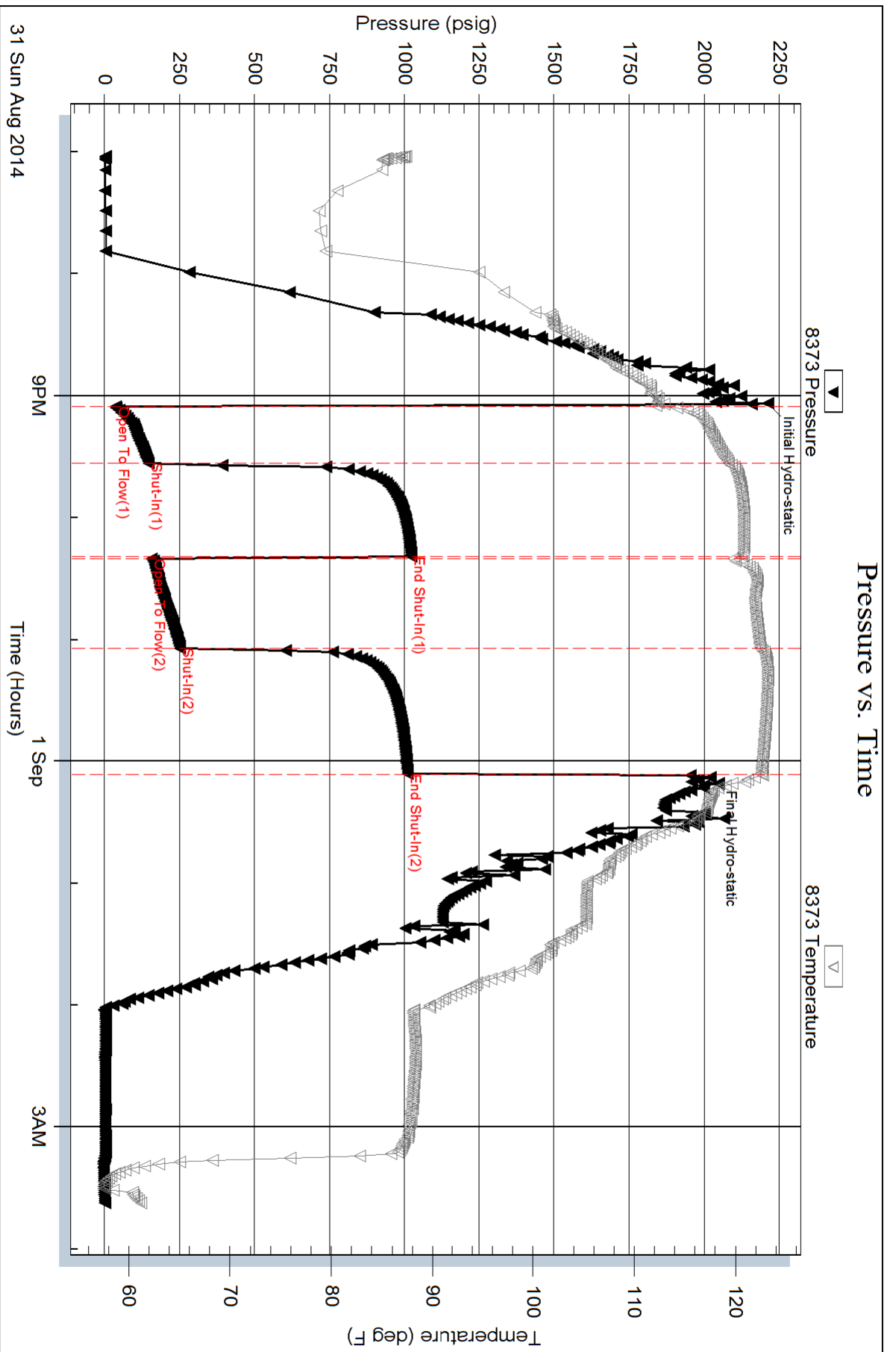
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 35@60=35





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Russell Oil Inc
 P.O. Box 8050
 Edmond, Ok 73083
 ATTN: Kitt Noah

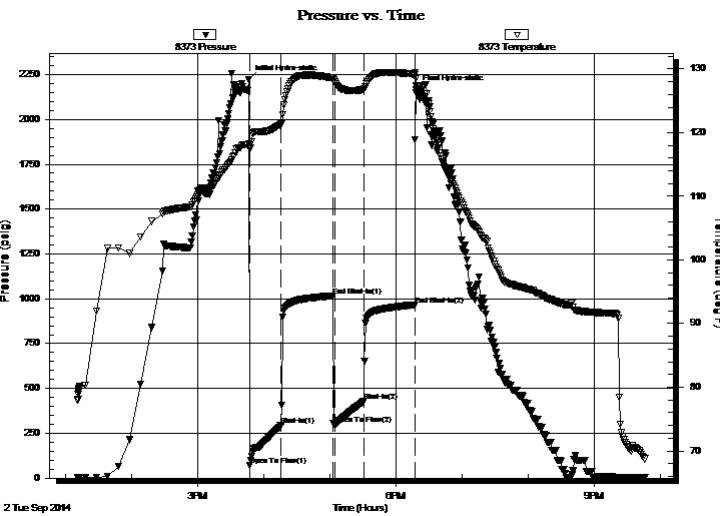
35-12s-33w Logan Ks
Joseph 35-1
 Job Ticket: 59035 **DST#: 7**
 Test Start: 2014.09.02 @ 13:11:16

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:47:16
 Time Test Ended: 21:45:46
 Interval: **4593.00 ft (KB) To 4634.00 ft (KB) (TVD)**
 Total Depth: 4634.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 60
 Reference Elevations: 3095.00 ft (KB)
 3084.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8373 Inside
 Press@RunDepth: 428.18 psig @ 4594.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.02 End Date: 2014.09.02 Last Calib.: 2014.09.02
 Start Time: 13:11:21 End Time: 21:45:46 Time On Btm: 2014.09.02 @ 15:46:16
 Time Off Btm: 2014.09.02 @ 18:17:46

TEST COMMENT: IF: BOB in 4 min.
 IS: BOB in 20 min.
 FF: BOB in 4 min.
 FS: Surface blow built to 5 1/2.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2224.02	118.17	Initial Hydro-static
1	73.05	117.49	Open To Flow (1)
30	294.26	121.31	Shut-In(1)
77	1017.06	128.57	End Shut-In(1)
78	298.99	127.97	Open To Flow (2)
105	428.18	126.74	Shut-In(2)
151	966.33	129.17	End Shut-In(2)
152	2166.62	128.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcgo 10%g 60%o 30%m	0.61
186.00	gocm 10%g 30%o 60%m	1.45
248.00	mcgo 15%g 80%o 5%m	3.48
506.00	go 10%g 90%o	7.10
0.00	1044 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

35-12s-33w Logan Ks

P.O. Box 8050
Edmond, Ok 73083

Joseph 35-1

Job Ticket: 59035

DST#: 7

ATTN: Kitt Noah

Test Start: 2014.09.02 @ 13:11:16

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	mcgo 10%g 60%o 30%m	0.610
186.00	gocm 10%g 30%o 60%m	1.452
248.00	mcgo 15%g 80%o 5%m	3.479
506.00	go 10%g 90%o	7.098
0.00	1044 GIP	0.000

Total Length: 1064.00 ft Total Volume: 12.639 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

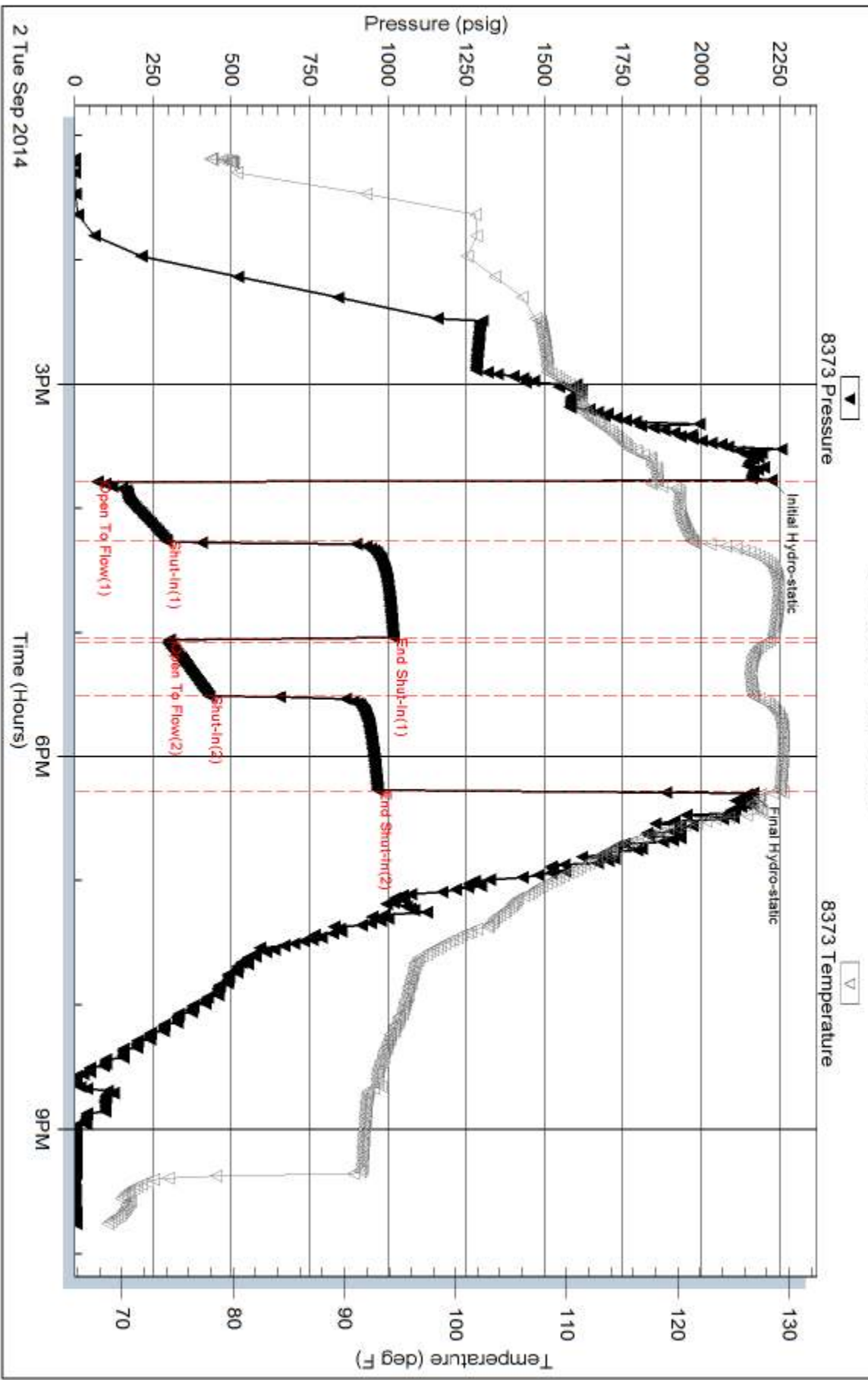
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 31@70=30

Pressure vs. Time



KITT NOAH

PETROLEUM GEOLOGIST
Kansas License #229



GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

#15-109-21-324

KB 3095

GL: 3084

MEASURED FROM KB

ELEVATION: KB 3095

WELL NO.: #35-1

LEASE: Joseph

LOCATION: 1880'FS & 340'FW

SEC: 35 TWP: 12S RNG: 33W

COUNTY: Logan STATE: Kansas

OPERATOR: Russell Oil, Inc.

CONTRACTOR: H2 Drilling, Inc. #2

DATE: 8-22-2014

WELL: 4730

DATE: 9-4-2014

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BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 11313 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>9-4-14</u> DISTRICT _____		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO. _____								
CUSTOMER <u>Russell Oil, Inc.</u>		LEASE <u>Joseph</u> WELL NO. <u>75-1</u>								
ADDRESS _____		COUNTY <u>Logan</u> STATE <u>KS</u>								
CITY _____ STATE _____		SERVICE CREW <u>Scott, Tech, M.R., Aaron</u>								
AUTHORIZED BY <u>Todd</u>		JOB TYPE: <u>CHINA - LOGAN TRAIL</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>38970</u>	<u>2.5</u>									
<u>19876 20920</u>	<u>7.5</u>									
<u>19877 19878</u>										
<u>19851 19862</u>	<u>7.5</u>									
<u>19959 73768</u>	<u>7.5</u>									
						ARRIVED AT JOB	<u>9-3-14</u>			<u>11:30</u>
						START OPERATION	<u>9-11-14</u>			<u>6:35</u>
						FINISH OPERATION	<u>9-11-14</u>			<u>12:10</u>
						RELEASED	<u>9-4-14</u>			<u>1:14</u>
						MILES FROM STATION TO WELL _____				

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED Todd Brown
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	A&Z Cement	SK	175		2975.00
CP101	A-con Blood Cement	SK	350		6300.00
CP103	60140 P07	SK	50		600.00
CC102	Cellulose	lb	131		454.70
CC105	G-41P	lb	42		168.00
CC109	Calcium chloride	lb	987		1036.35
CC111	Salt	lb	796		390.50
CC115	G-44	lb	124		638.60
CC129	FIA-322	lb	132		990.00
CC701	Gilsonite	lb	875		556.25
CF401	Two Stage Cement Cellar 5 1/2 Red	EA	1		1100.00
CF601	5 1/2 inch down plug & Assembly	EA	1		550.00
CF1251	Auto fill float shoe 5 1/2	EA	1		360.00
CF1651	Truckloaders 5 1/2	EA	8		560.00
CF1901	Braked 5 1/2	EA	1		200.00
CF7007	Common Scratchers Rotating type	EA	10		500.00
CF155	Super Flush II	Gal	1000		1530.00
F100	Well Milling P&B up	M	200		550.00
F101	Heavy Equipment Milling	M	600		4200.00
SUB TOTAL					<u>16</u>

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Todd Brown
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

Customer Russell Oil Inc.	Lease No.	Date 9-4-14
Lease Joseph	Well # 35-1	
Field Order # 11313A	Station Pratt	Casing 5 1/2
		Depth 4774
Type Job 5 1/2 Two-Stage Long string CNL	Formation	Legal Description 35 1261 335
		County Logan State KS

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2								
Depth 4774	Depth	From	To	Pre Pad	Max			5 Min.
Volume 112.50	Volume	From	To	Pad	Min			10 Min.
Max Press 2020	Max Press	From	To	Frac	Avg			15 Min.
Well Connection 5 1/2	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative Todd	Station Manager Kevin Goodley	Treater Scott Grooms
Service Units 38470	19826 20270	19859 22765
Driver Names Scott	Josh	Mike
	Clayton	

Time	Casing Pressure	Tubing Pressure	Bbts. Pumped	Rate	Service Log
5:30					On location safety meeting Rig up Run float equipment 11 joints Basket #49, Div. #50, Tubing on # 1, 4, 7, 9, 12, 16, 20, 51 Circulate on bottom ^{NOT enough}
9:35	0		5	3.5	Pump H2O spacer
9:37	0		20	5.2	Pump Super flush 11 1000 gallons
9:43	0		5	5	Pump H2O spacer
9:45	150		42.38	5.6	Mix 175 SKS AAP cement at 15.3 ppb
9:53	0				Shut down cement complete
9:55					wash pump & lines
10:05					Drop plug
10:08	0		49	5.8	Start Displacement with H2O
10:19	0		49	5.6	Start Displacement with mud
10:25	600		36	5.6	lift pressure
10:30	600		26	3.5	Plug landed
10:32	1500				Pressure up set plug
10:33	0				Release pressure check hold
10:35					Drop Port wait 15 minutes
10:50					pressure up
10:50					D.V. Test open

