



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1128298
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: _____



1128298

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Raymond Oil Company

6-6-20w-Rooks

PO Box 48788
Wichita, Ks. 67202

Margaret Morris #1

ATTN: Max Lovely

Job Ticket: 52205

DST#: 1

Test Start: 2013.03.20 @ 04:02:43

GENERAL INFORMATION:

Formation: **Hoo Doo**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 11:09:43

Time Test Ended: 16:36:28

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

Interval: 3070.00 ft (KB) To 3123.00 ft (KB) (TVD)

Reference Elevations: 2098.00 ft (KB)

Total Depth: 3123.00 ft (KB) (TVD)

2091.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8789 Inside

Press @ Run Depth: 52.52 psig @ 3105.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.20

End Date:

2013.03.20

Last Calib.:

2013.03.20

Start Time:

04:02:45

End Time:

16:36:28

Time On Btm:

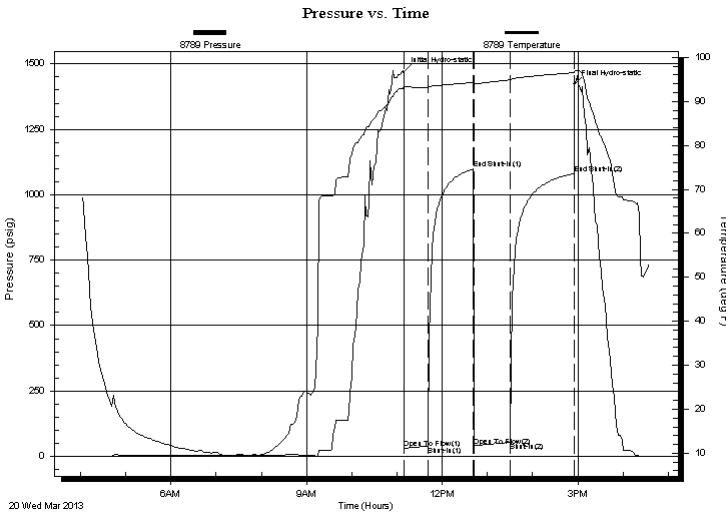
2013.03.20 @ 11:09:28

Time Off Btm:

2013.03.20 @ 14:55:43

TEST COMMENT: IFP-Weak Blow , Built to 7/8"
ISI-Dead
FFP-Weak Blow , Built to 1/2"
FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1469.26	93.52	Initial Hydro-static
1	29.97	92.96	Open To Flow (1)
32	38.25	93.22	Shut-In(1)
93	1098.55	94.37	End Shut-In(1)
93	39.79	93.98	Open To Flow (2)
141	52.52	94.92	Shut-In(2)
226	1081.33	96.55	End Shut-In(2)
227	1421.52	96.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Watery Mud-10%W-90%M	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

6-6-20w-Rooks

PO Box 48788
Wichita, Ks. 67202

Margaret Morris #1

Job Ticket: 52205

DST#: 1

ATTN: Max Lovely

Test Start: 2013.03.20 @ 04:02:43

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:

6500 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Watery Mud-10%W-90%M	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl

Num Fluid Samples: 0

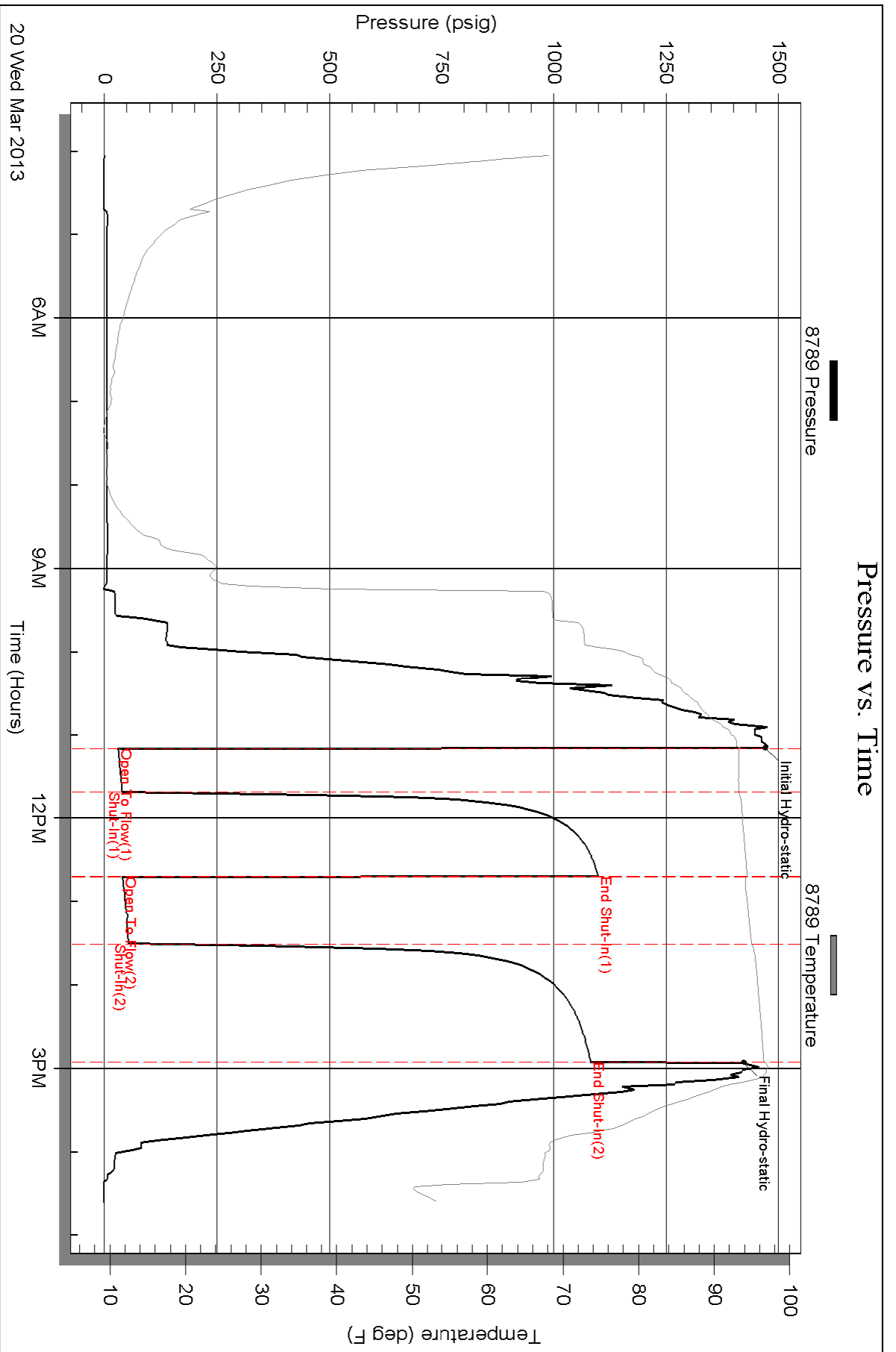
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

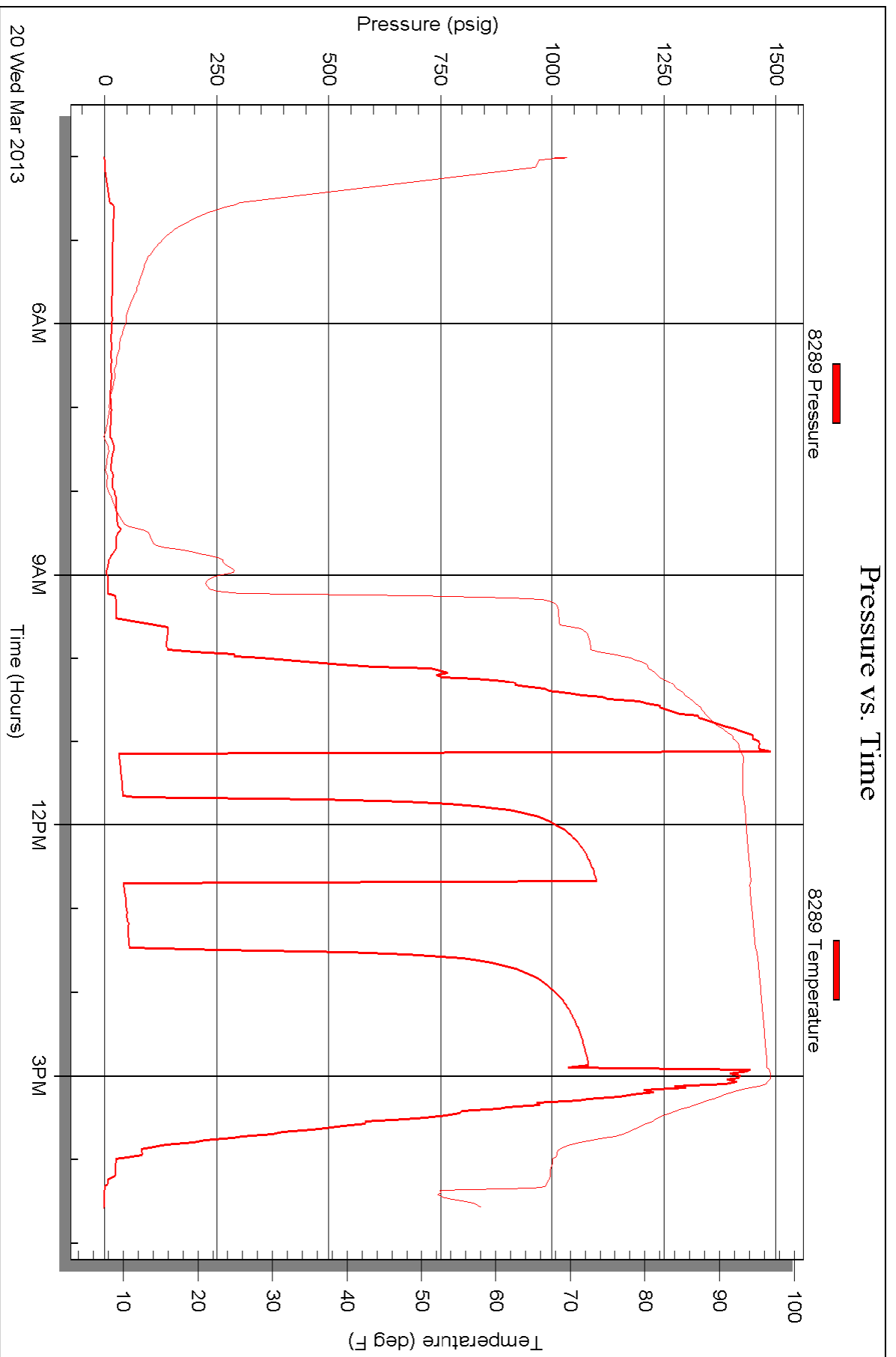


Serial #: 8289

Outside Raymond Oil Company

Margaret Morris #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 52205

Printed: 2013.03.20 @ 21:11:51



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raymond Oil Company

6-6-20w-Rooks

PO Box 48788
Wichita, Ks. 67202

Margaret Morris #1

ATTN: Max Lovely

Job Ticket: 52206

DST#: 2

Test Start: 2013.03.20 @ 23:58:36

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 02:24:51

Time Test Ended: 08:26:51

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3134.00 ft (KB) To 3180.00 ft (KB) (TVD)

Total Depth: 3180.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2098.00 ft (KB)

2091.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8789 Inside

Press @ Run Depth: 159.96 psig @ 3169.00 ft (KB)

Start Date: 2013.03.20

End Date:

2013.03.21

Start Time: 23:58:38

End Time:

08:26:51

Capacity: 8000.00 psig

Last Calib.: 2013.03.20

Time On Btm: 2013.03.21 @ 02:24:06

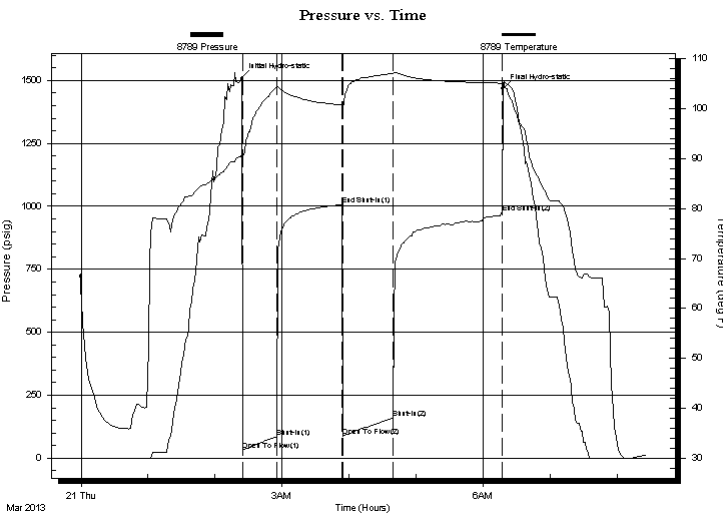
Time Off Btm: 2013.03.21 @ 06:17:36

TEST COMMENT: IFP-Fair Blow , Built to 6-1/4"

ISI-Dead

FFP-Fair Blow , Built to 6"

FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1509.40	91.03	Initial Hydro-static
1	32.23	90.54	Open To Flow (1)
31	84.34	104.25	Shut-In(1)
90	1006.04	100.70	End Shut-In(1)
90	88.39	100.16	Open To Flow (2)
136	159.96	107.03	Shut-In(2)
234	973.50	105.07	End Shut-In(2)
234	1467.43	105.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
270.00	Muddy Water W/Oil Specks in top 20'	3.79
0.00	90%W-10%M	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

Raymond Oil Company

6-6-20w-Rooks

PO Box 48788
Wichita, Ks. 67202

Margaret Morris #1

Job Ticket: 52206

DST#: 2

ATTN: Max Lovely

Test Start: 2013.03.20 @ 23:58:36

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:

70000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
270.00	Muddy Water W/Oil Specks in top 20'	3.787
0.00	90%W-10%M	0.000

Total Length: 270.00 ft

Total Volume: 3.787 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

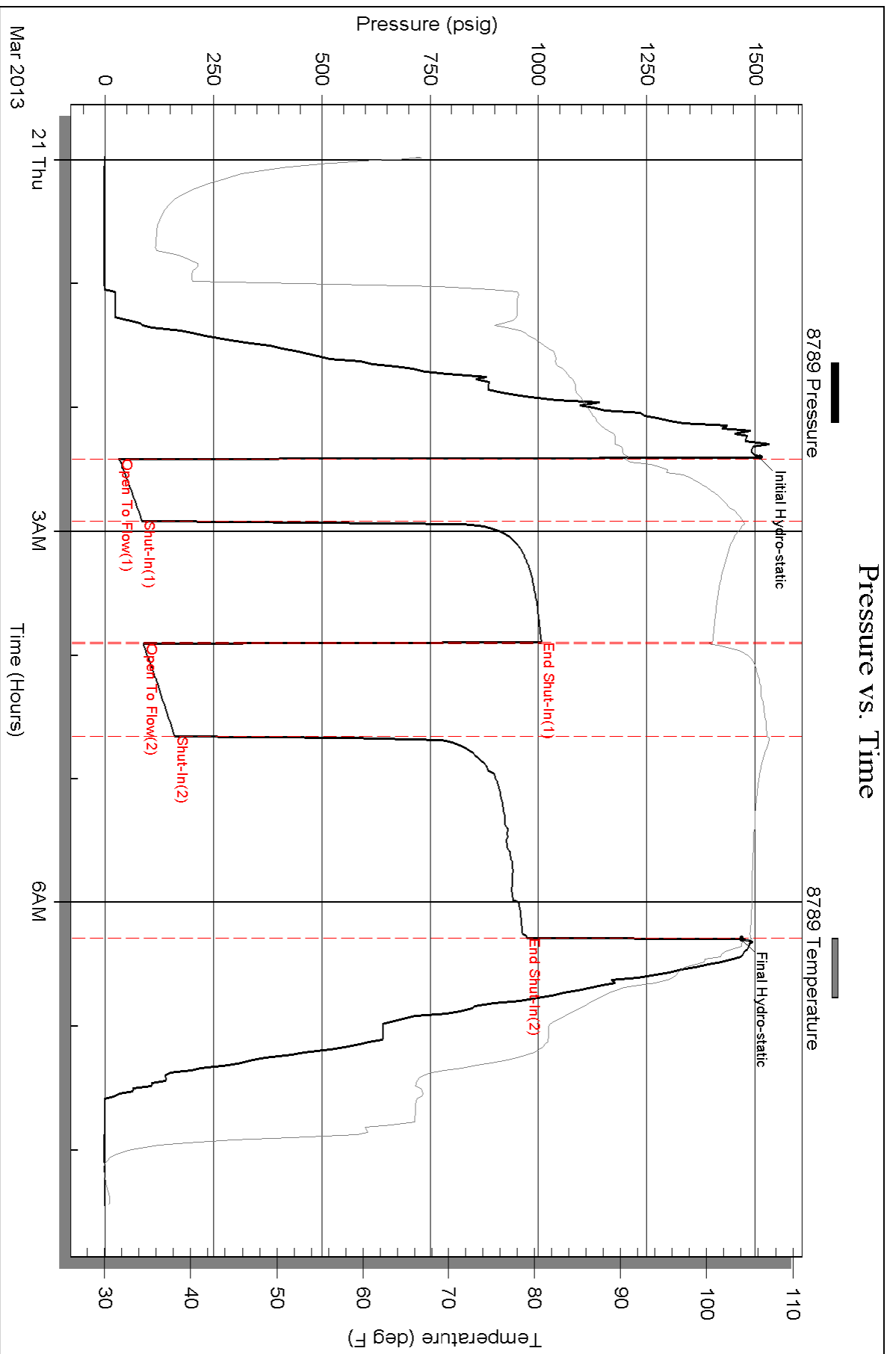
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Raymond Oil Company

6-6-20w-Rooks

PO Box 48788
Wichita, Ks. 67202

Margaret Morris #1

ATTN: Max Lovely

Job Ticket: 52207

DST#: 3

Test Start: 2013.03.21 @ 15:07:18

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 17:24:18

Time Test Ended: 23:01:03

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3136.00 ft (KB) To 3237.00 ft (KB) (TVD)

Reference Elevations: 2098.00 ft (KB)

Total Depth: 3237.00 ft (KB) (TVD)

2091.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8789 Inside

Press @ Run Depth: 21.40 psig @ 3231.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.21

End Date:

2013.03.21

Last Calib.: 2013.03.21

Start Time: 15:07:20

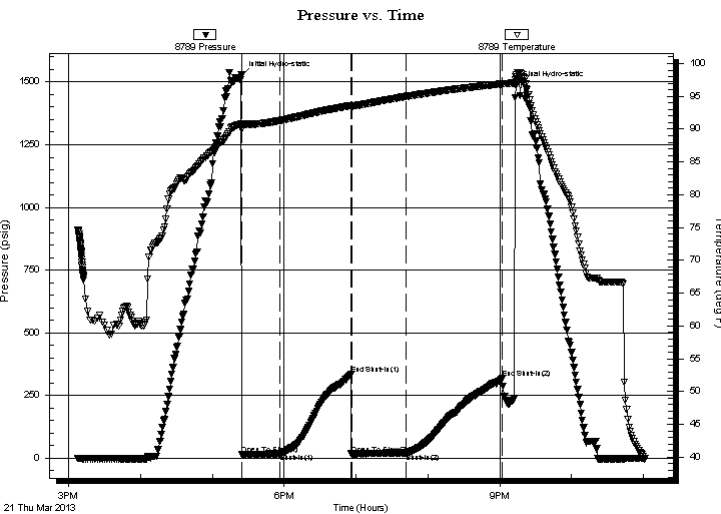
End Time:

23:01:03

Time On Btm: 2013.03.21 @ 17:24:03

Time Off Btm: 2013.03.21 @ 21:13:18

TEST COMMENT: IFP-Weak Blow , Built to 1/2"
ISI-Dead
FFP-Weak Blow , Built to 1/4"
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1526.85	90.85	Initial Hydro-static
1	15.75	89.93	Open To Flow (1)
33	17.71	91.30	Shut-In(1)
92	333.63	93.60	End Shut-In(1)
93	14.38	93.50	Open To Flow (2)
138	21.40	94.96	Shut-In(2)
219	318.58	96.90	End Shut-In(2)
230	1485.89	97.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM-20%O-80%M	0.28

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

6-6-20w-Rooks

PO Box 48788
Wichita, Ks. 67202

Margaret Morris #1

Job Ticket: 52207

DST#: 3

ATTN: Max Lovely

Test Start: 2013.03.21 @ 15:07:18

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OCM-20%O-80%M	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8789

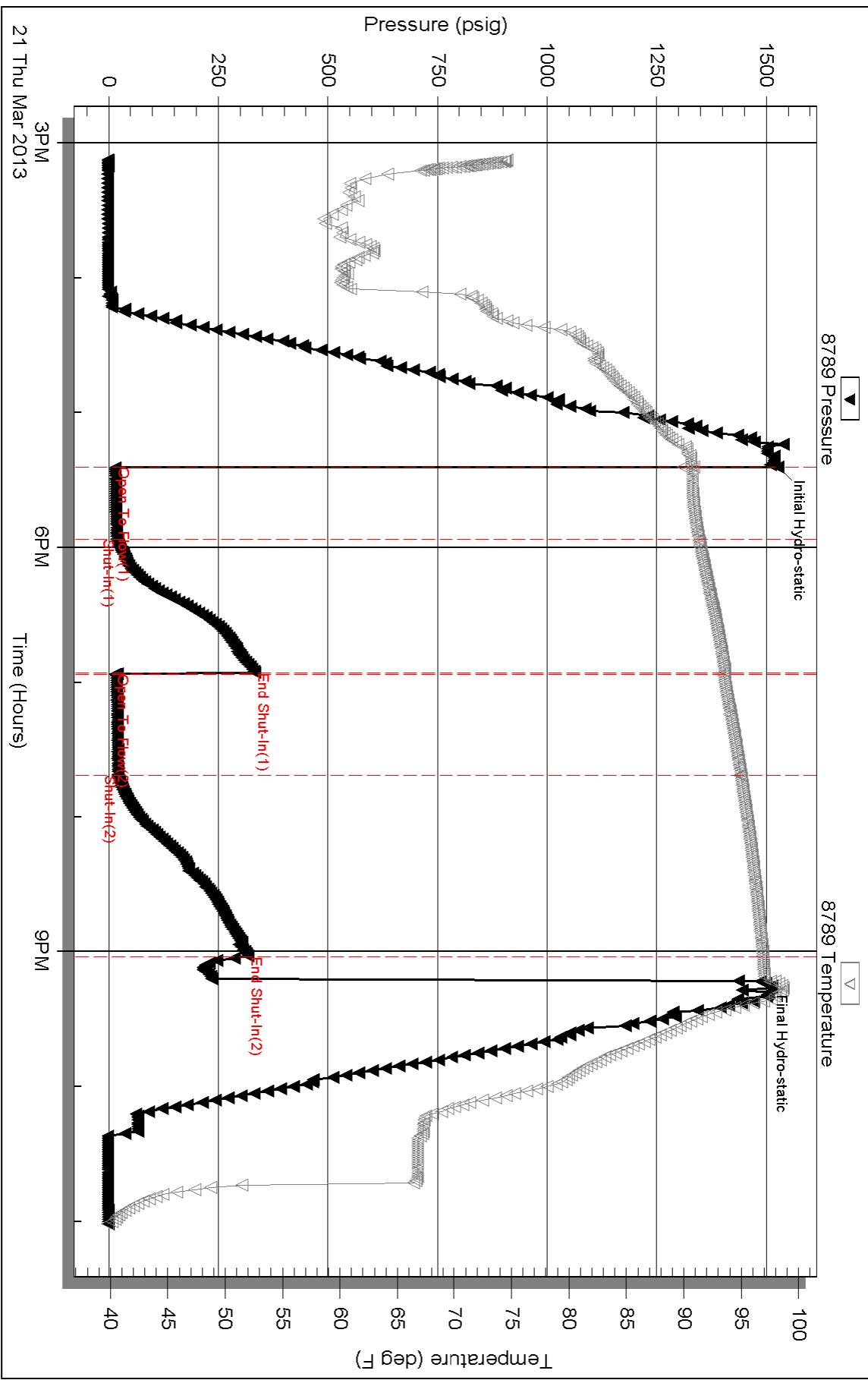
Inside

Raymond Oil Company

Margaret Morris #1

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52207

Printed: 2013.03.22 @ 06:26:26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raymond Oil Company

6-6-20w-Rooks

PO Box 48788
Wichita, Ks. 67202

Margaret Morris #1

ATTN: Max Lovely

Job Ticket: 52208

DST#: 4

Test Start: 2013.03.22 @ 08:20:26

GENERAL INFORMATION:

Formation: **Lansing A**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 10:02:26

Time Test Ended: 15:01:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3234.00 ft (KB) To 3256.00 ft (KB) (TVD)

Reference Elevations: 2098.00 ft (KB)

Total Depth: 3256.00 ft (KB) (TVD)

2091.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8789

Inside

Press @ Run Depth: 16.00 psig @ 3238.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.22

End Date:

2013.03.22

Last Calib.:

2013.03.22

Start Time: 08:20:28

End Time:

15:01:26

Time On Btm:

2013.03.22 @ 10:02:11

Time Off Btm:

2013.03.22 @ 13:49:56

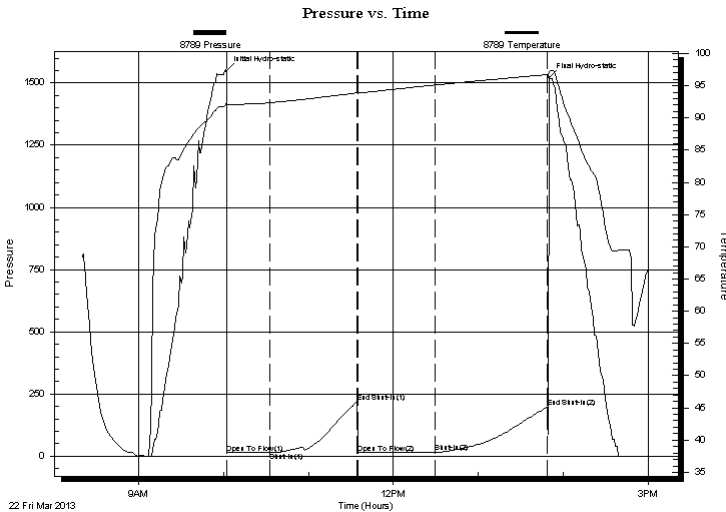
TEST COMMENT: IFP-Weak Blow , Died in 10 Min.

ISI-Dead

FFP-Dead

FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1548.81	92.32	Initial Hydro-static
1	14.19	91.88	Open To Flow (1)
31	15.19	92.37	Shut-In(1)
93	219.09	93.91	End Shut-In(1)
93	13.09	93.77	Open To Flow (2)
147	16.00	95.12	Shut-In(2)
227	197.87	96.74	End Shut-In(2)
228	1522.78	97.26	Final Hydro-static

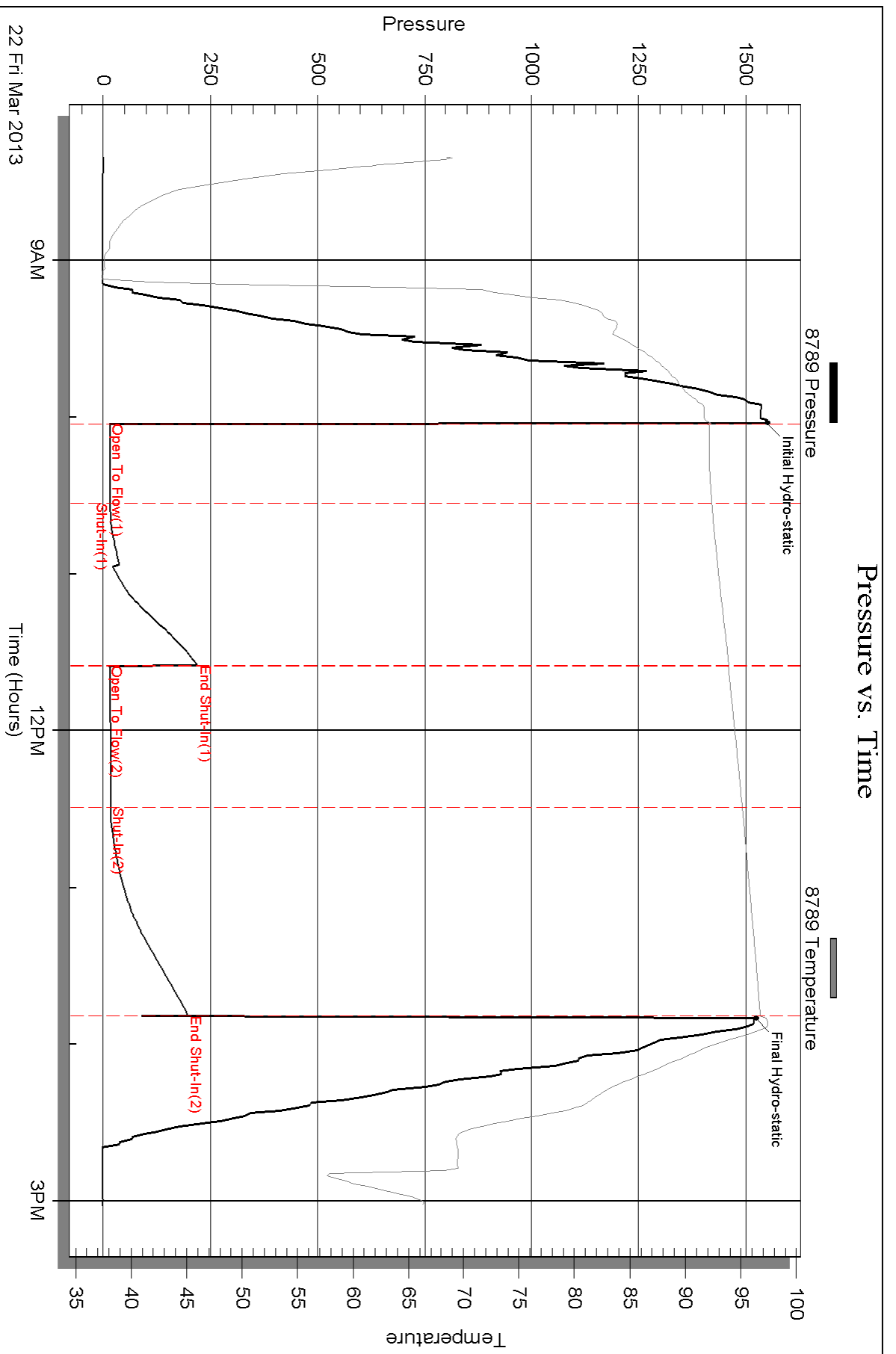
Recovery

Length (ft)	Description	Volume (bbl)
1.00	OCM-20%O-80%M	0.01

* Recovery from multiple tests

Gas Rates

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

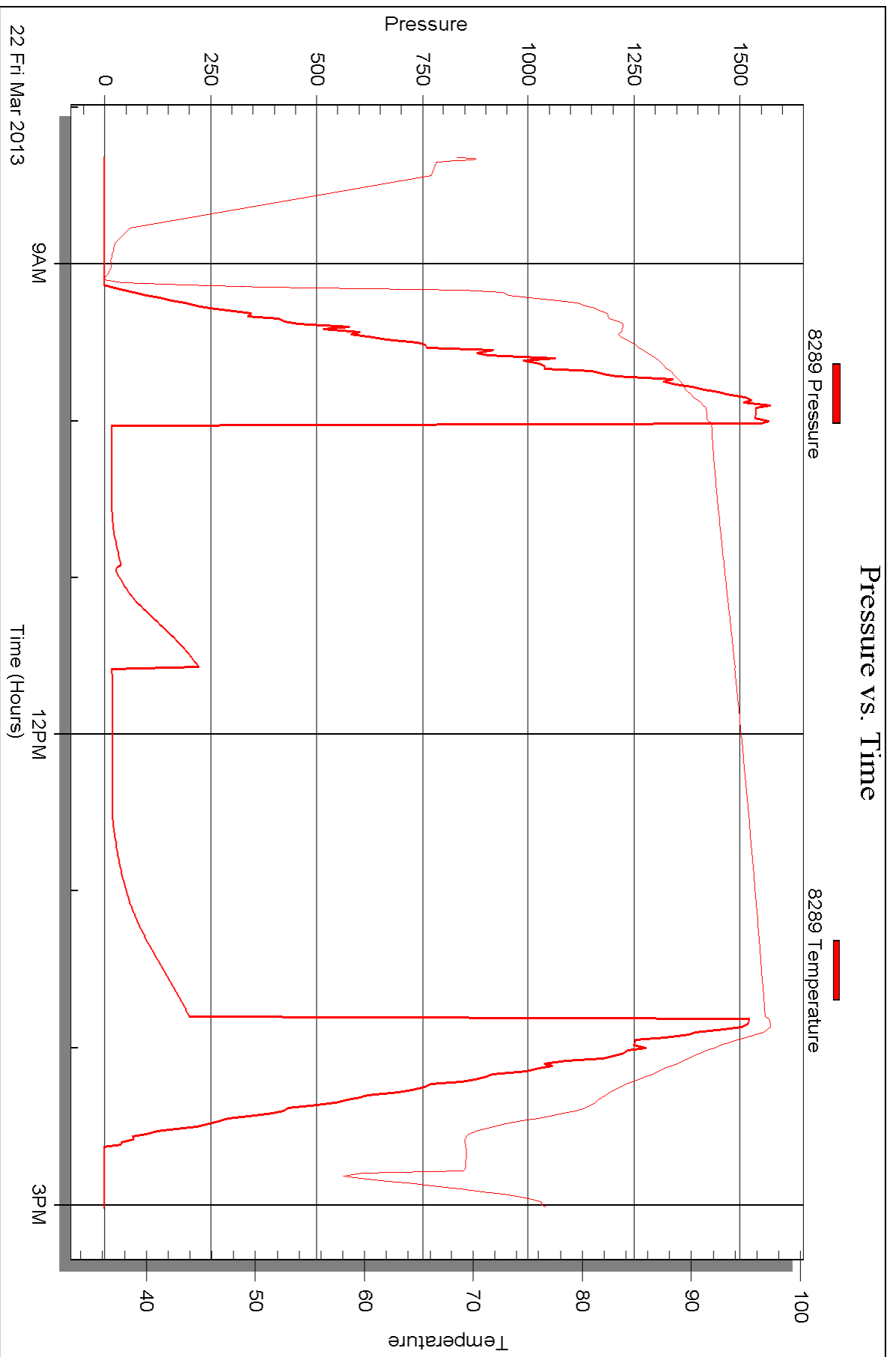


Serial #: 8289

Outside Raymond Oil Company

Margaret Morris #1

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 52208

Printed: 2013.03.23 @ 13:40:47



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Raymond Oil Company

6-6-20w-Rooks

PO Box 48788
Wichita, Ks. 67202

Margaret Morris #1

ATTN: Max Lovely

Job Ticket: 52209

DST#: 5

Test Start: 2013.03.23 @ 03:59:36

GENERAL INFORMATION:

Formation: **Lansing 30'-90'**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 05:33:21

Time Test Ended: 10:34:51

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3258.00 ft (KB) To 3333.00 ft (KB) (TVD)

Reference Elevations: 2098.00 ft (KB)

Total Depth: 3333.00 ft (KB) (TVD)

2091.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8789

Inside

Press @ Run Depth: 39.20 psig @ 3326.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.23

End Date:

2013.03.23

Last Calib.:

2013.03.23

Start Time:

03:59:38

End Time:

10:34:51

Time On Btm:

2013.03.23 @ 05:32:51

Time Off Btm:

2013.03.23 @ 09:19:21

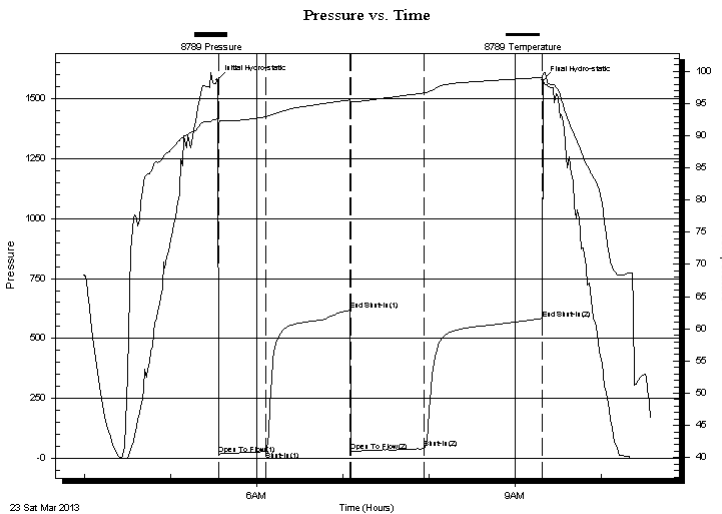
TEST COMMENT: IFP-Weak Blow , Built to 1"

ISI-Dead

FFP-Surface Blow , Lasted Throughout

FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1580.60	92.60	Initial Hydro-static
1	16.65	91.74	Open To Flow (1)
34	27.12	92.93	Shut-In(1)
92	619.04	95.56	End Shut-In(1)
93	28.26	95.32	Open To Flow (2)
144	39.20	96.63	Shut-In(2)
226	583.04	99.03	End Shut-In(2)
227	1578.96	99.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mud W/Oil Scum In Tool	0.56

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

6-6-20w-Rooks

PO Box 48788
Wichita, Ks. 67202

Margaret Morris #1

Job Ticket: 52209

DST#: 5

ATTN: Max Lovely

Test Start: 2013.03.23 @ 03:59:36

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Mud W/Oil Scum In Tool	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

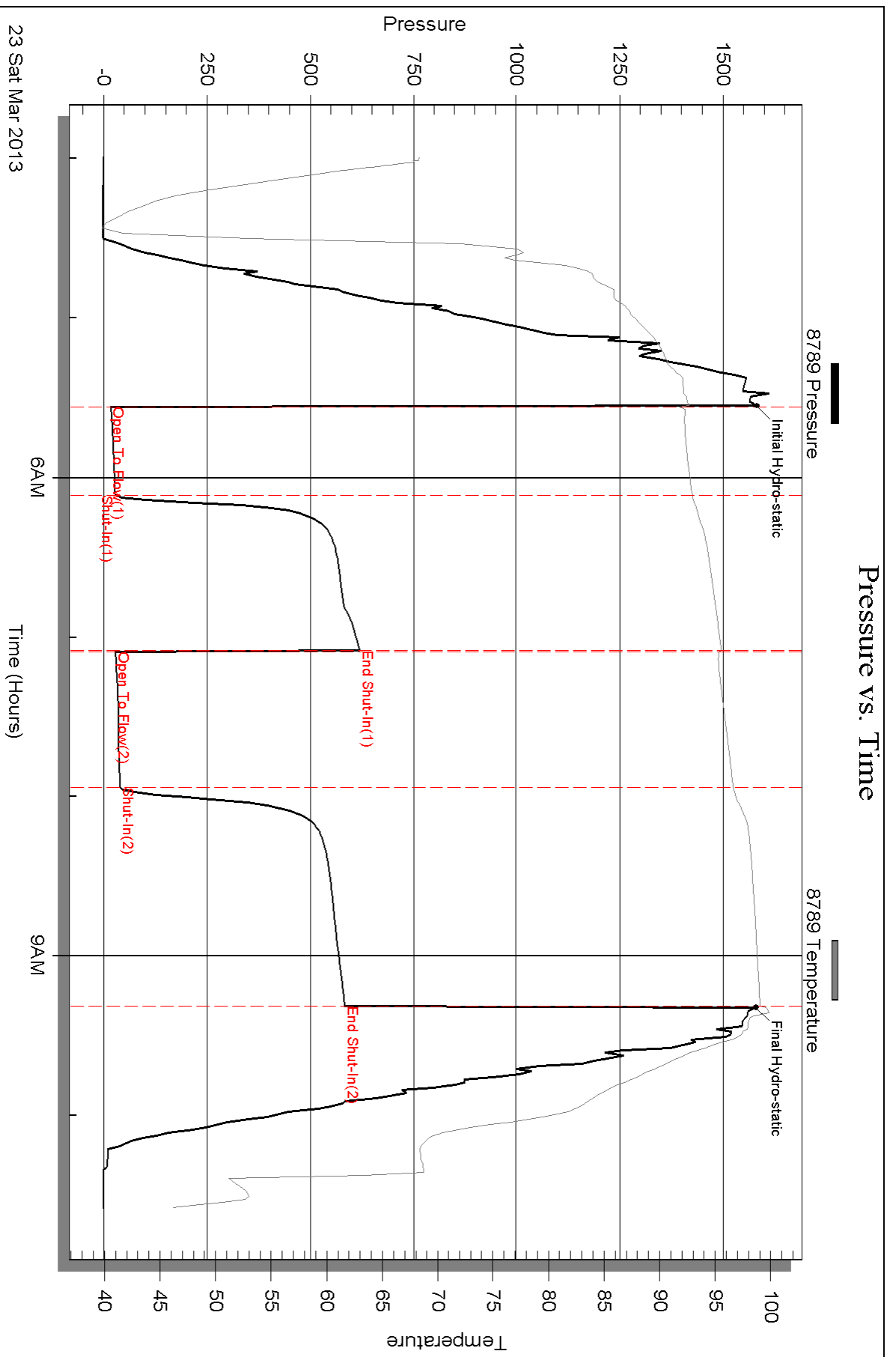
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

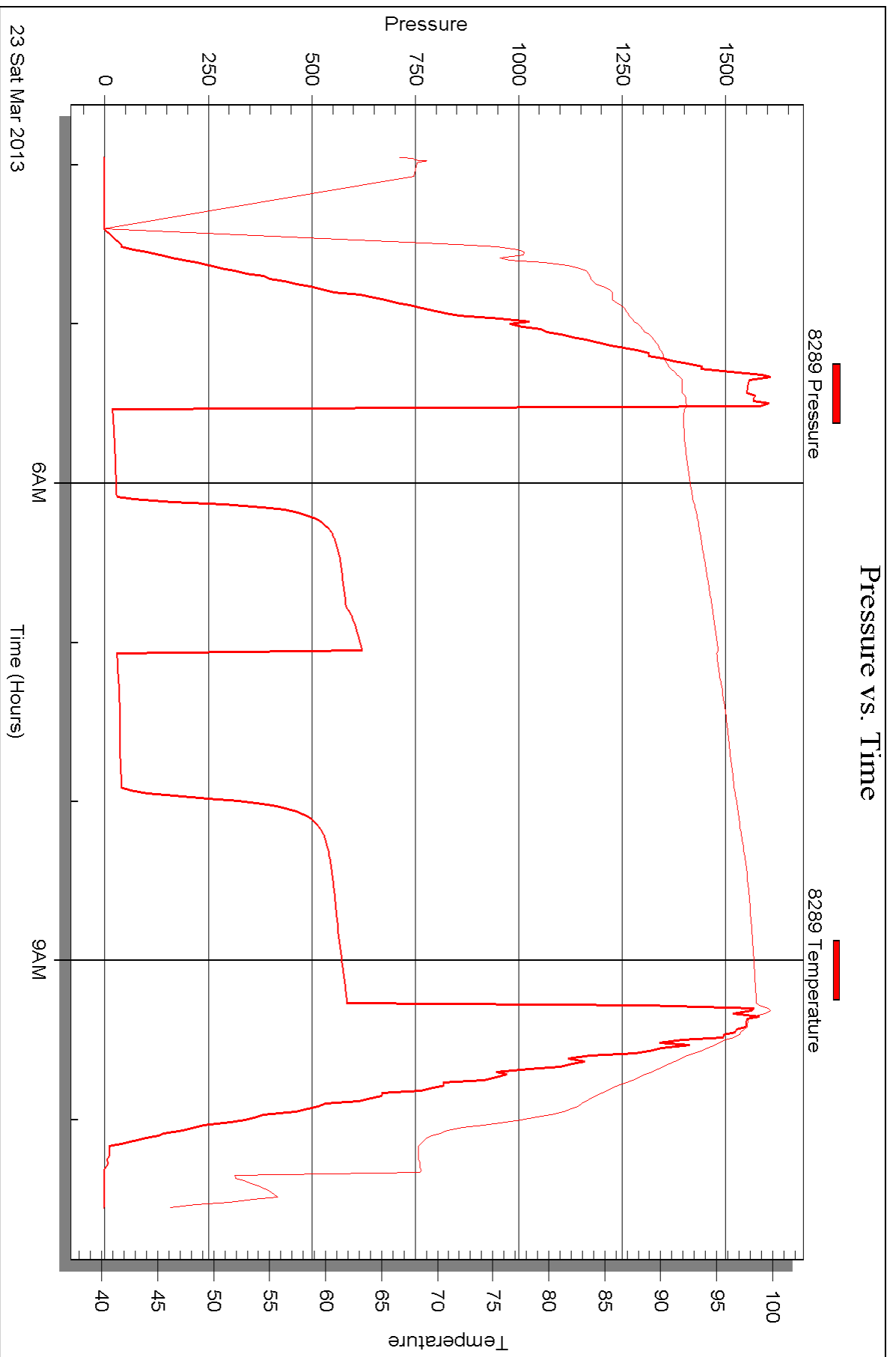


Serial #: 8289

Outside Raymond Oil Company

Margaret Morris #1

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 52209

Printed: 2013.03.23 @ 13:41:52



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Raymond Oil Company

6-6-20w-Rooks

PO Box 48788
Wichita, Ks. 67202

Margaret Morris #1

ATTN: Max Lovely

Job Ticket: 52210

DST#: 6

Test Start: 2013.03.24 @ 14:32:27

GENERAL INFORMATION:

Formation: **Granite**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 17:27:27

Time Test Ended: 21:06:57

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3479.00 ft (KB) To 3533.00 ft (KB) (TVD)

Reference Elevations: 2098.00 ft (KB)

Total Depth: 3533.00 ft (KB) (TVD)

2091.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8789 Inside

Press @ RunDepth: 32.13 psig @ 3515.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.24

End Date: 2013.03.24

Last Calib.: 1899.12.30

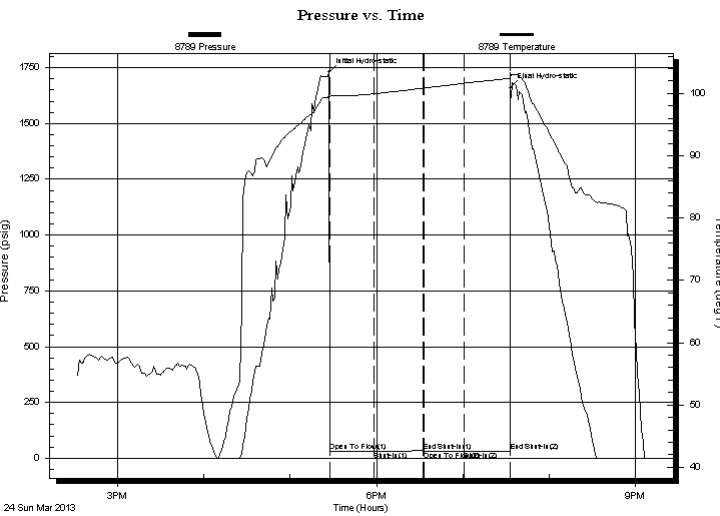
Start Time: 14:32:29

End Time: 21:06:57

Time On Btm: 2013.03.24 @ 17:27:12

Time Off Btm: 2013.03.24 @ 19:32:57

TEST COMMENT: IFP-Dead
ISI-Dead
FFP-Dead
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1728.90	99.85	Initial Hydro-static
1	30.83	99.42	Open To Flow (1)
31	31.53	99.94	Shut-In(1)
65	33.02	100.84	End Shut-In(1)
66	31.59	100.85	Open To Flow (2)
94	32.13	101.62	Shut-In(2)
126	32.46	102.43	End Shut-In(2)
126	1660.36	103.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Drilling Mud	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

6-6-20w-Rooks

PO Box 48788
Wichita, Ks. 67202

Margaret Morris #1

Job Ticket: 52210

DST#: 6

ATTN: Max Lovely

Test Start: 2013.03.24 @ 14:32:27

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Drilling Mud	0.014

Total Length: 1.00 ft Total Volume: 0.014 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

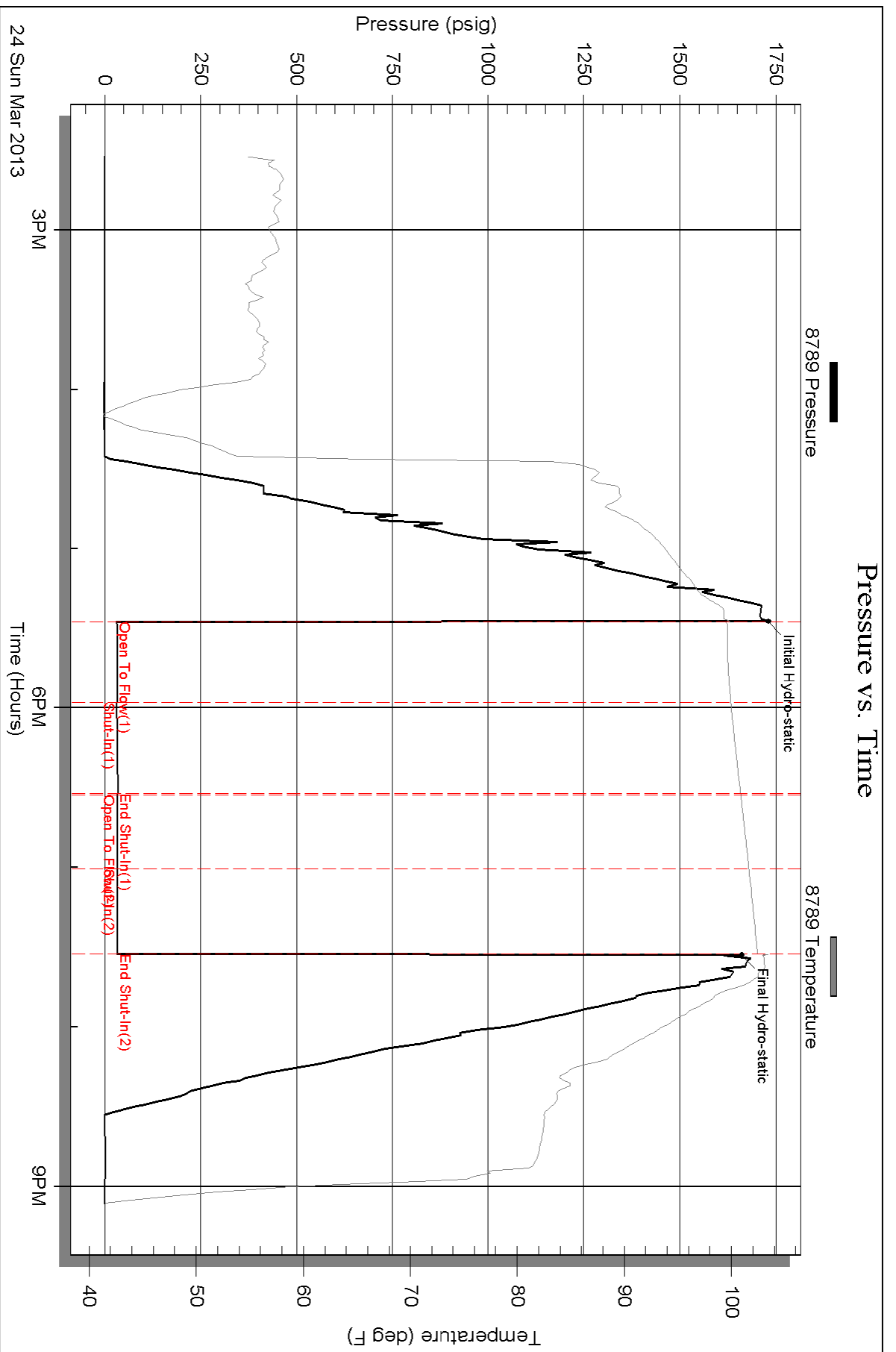
Serial #: 8789

Inside

Raymond Oil Company

Margaret Morris #1

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 52210

Printed: 2013.03.24 @ 22:57:16

Max R. Lovely

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Raymond Oil Co.

LEASE Margarey Morris #1

FIELD Ray

LOCATION NE SE SW SW

SEC 6 TWP 6 RGE 20W

COUNTY Rooks STATE KS

CONTRACTOR Maverick #108

SPUD 3-16-2013 COMP 3-25-2013

WTD 3558 STD 3560

MUD JP 2846 TYPE MUD Chem

ELEVATIONS

KB 2098

OF 2090

Measurements Are From KB

CASING SURFACE 8 5/8" e 262'

DUAL IWD SURVEY MICRO COMP N/D

FORMATION TOPS AND STRATIGRAPHIC CORRELATION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	MEASURED THICKNESS	STRATIGRAPHIC POSITION
Anhydrite	1593	1593	505	500
Topoka	2997	2997	-690	-900
Heebner	3200	3206	-1108	-1094
Lansing	3243	3246	-1148	-1134
Muncie	3354	3358	-1280	-1254
BKC	3436	3436	-1338	-1330
Granite Wash	3469	3474	-1376	-1374
PC Granite	3474	3479	-1391	

2800

LS, CRM, F → M, XLW, S → M HRD,
P Ø, NS

SH, BRT GRN

SLTSTN, GRY

LS, WHI/CRM, F → M, V CRS TXT,
V FOSS, G FOSS Ø, NS

SS, GRY CMT, F GRNS, P → W GRY
CMT'D, SEMIHRD, F Ø, W SORT,
NS

SH, GRY, SLTY

SLTSTN, GRY

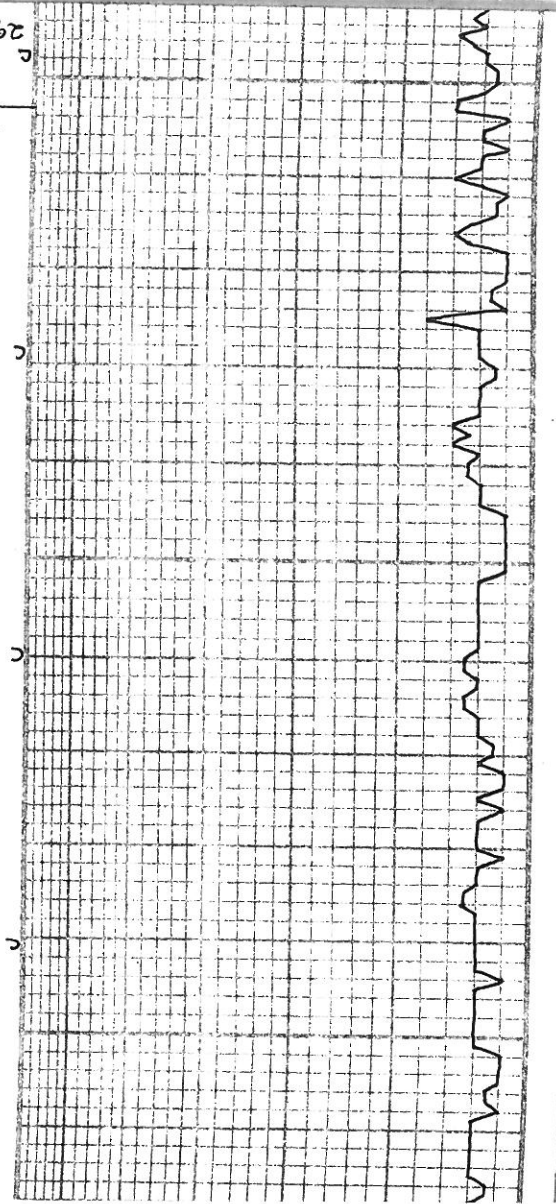
SLTSTN, GRY

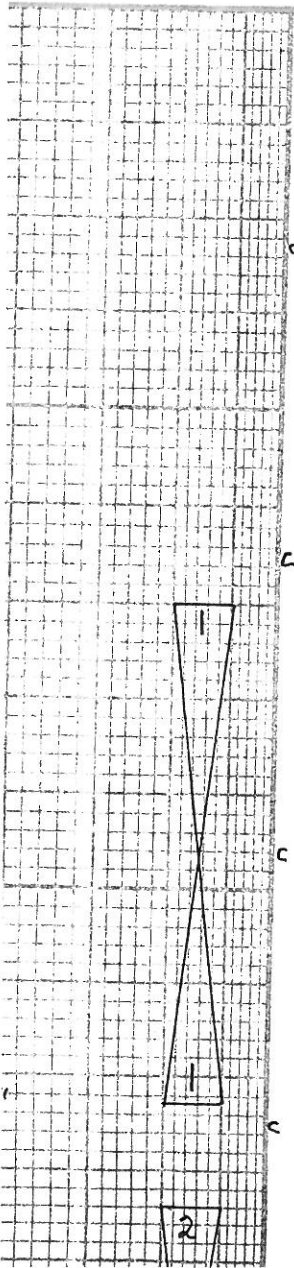
LS, GRY/TAN, V FXTW, V HRD,
SL DNS, SANDY TXT, TITE, NS

SH, GR, SLT	
SH, GR, PYR	
A.A	
LS, GR, BRN, VEXTLN, VHRD, DNS, VTITE, NS	
A.A	
LS, GR, FXTLN, SOFT, MS	
LS, DK GR, BRN, VEXTLN, V DNS, V HRD, TITE, NS	

3000
LOPE KA
2997 - 899

2900





3100

DEV 1/2°

LS. DK GRAY, V FXTLN, V HRD,
SL BRTL, REXTLD FRAC'S,
TITE, NS

LS. WHT, CHLKY, SOFT, NS

LS. TAN, CRM, GRAY, V FXTLN,
BRTL, SL DNS, NO FOSS, NS

LS. GRAY, FXTLN, HRD, FEW SCT
FOSS, NO APPØ, NS

LS. GRAY/BRN, FXTLN, BRTL,
FLUOR STN, NO ODOR, NS

LS. CRM, BUFF, FXTLN, SOFT,
G FLUOR STN, G BRN FLOWN
BRK, SL BLEED

VLT
ODOR

LS. WHT, FXTLN, CHLKY, SCT
PYR XTLS THRUOUT, NS

LS. WHT, FXTLN, SOFT, BRTL,
G SCT FLUOR STNG, G SFO ON
BRK, SCT GAS W/OIL

NO
ODOR

△ △ CHT, WHT, FRAC'S

△ △

△

LS. WHT, FXTLN, HRD, DNS,
SCT CRIN'S, NO APPØ, NS

LS. GRAY, WHT, FXTLN, DNS, HRD

25 STWD SHORT TRIP

DST#1 3070-3123
30.60.45.90

IF: 78" ISI: NR
FF: 1/2" FSI: NR

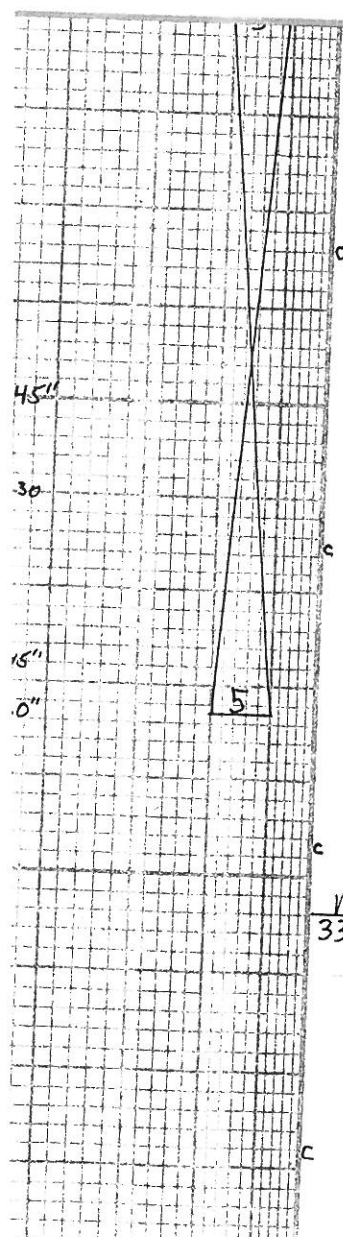
REC: 50' WM
CHLOR: 6,500
FP: 30-38, 40-42
SIP: 1099-1087
HP: 1469-1422

MUD CHECK
VIS 52 WT 9.0
CHLOR 1,000 LCM 1#
FILT 6.2

7:AM 3-20-2013
COME OUT W/ DST#1
@ 3123'

STRAP 3129.13
BOARD 3127.73

LONG 1.40



3300

MUNCIE
3354-1256

DNS, SCT FOSS, TITE, NS

LS, WHY, FXTLN, V FEW FOSS,
S → M HRD, THW BEDDED, SCT
FLUOR STNG, SCT BRN STNG,
SCT LT BRN FO ON BRK

LS, WHY, FXTLN, CHLKY, E → G
FLUOR STNG, SL SHO GAS, FILMY
FLUOR OIL ON BRK, FEW SCT
FLUOR NAT FO IN TRAY

LS, CRM / WHY, FXTLN, HRD, DNS,
FLUOR STNG STRKS, MICRO FLUOR
FO ON BRK

LS, WHY / CRM, FXTLN, HRD,
P → TITE Ø, NS

SH, BURG, GRY

LS, CRM, BRN, M HRD, BRTL,
GXTLN + FOSS Ø, FOIL + GAS
BLEED, G GAS ON BRK, SCT
NAT FO, AMBER OIL, ABUN
FOSS + FRAGS w/ G OIL FILL Ø,
LITE ENERGY

CHT, WHY, CRM

LS, CRM, BRN, HRD, TITE, CLEAN

DOLO, WHY, SUCR, G EVEN BRN
STNG, G Ø, LT BRN FLUOR FO
ON BRK, G SAT

LS, GRY / GRN, VXTLN, HRD,
V DNS, TITE, NS

SH, BLK, DK GRY

CHT, GRY, V FOSS

LS, TAN, FXTLN, V DNS, V FIS
W/ SCT SML FOSS, NO APP Ø

A.A.

LS, WHY, FXTLN, DNS, HRD.

MED
ODOR

LT
ODOR

FAIR
ODOR

F → G
ODOR
GASSY

LT
ODOR
G SAT

VLT

MUD CHECK
VIS 52 WT 9.0
CHLOR 1,100 LCM 2
FILT 7.2

DST #4 3234-3256
30.60.45.90
IF: SURF, dried 10" LSI: NR
FF: DEAD FSI: NR
REC: 1' OCM
FP: 14-15, 13-16
SIP: 219-198
HP: 1549-1523

7:AM 3-23-2013
DST #5 @ 3333'
MUD CHECK
VIS 58 WT 9.1
CHLOR 1,000 LCM 2
FILT 7.2

DST #5 3258-3333
30.60.45.90
IF: 1" LSI: NR
FF: SURF FSI: NR
REC: 40' M w/ OIL SCUM
FP: 17-27, 28-39
SIP: 619-583
HP: 1581-1579

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

April 05, 2013

Robert Turner
Raymond Oil Company, Inc.
PO BOX 48788
WICHITA, KS 67202-1822

Re: ACO1
API 15-163-24100-00-00
Margaret Morris 1
SW/4 Sec.06-06S-20W
Rooks 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,
Robert Turner