

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1204242

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: _____

Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West County: _____

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>	☐ Yes	☐ No	☐ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☐ Yes	☐ No	Name	Top	Datum
Cores Taken	☐ Yes	☐ No			
Electric Log Run	☐ Yes	☐ No			
List All E. Logs Run:					

CASING RECORD ☐ New ☐ 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
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ 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 (Amount and Kind of Material Used)		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: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>		METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> ☐ Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	K3 Oil & Gas Operating Company
Well Name	Cathrine Coberly 30-14
Doc ID	1204242

All Electric Logs Run

Photo Density Compensated Neutron Microsensitivity
Compant Photo Density
Compensated Sonic
Compensated Neutro Sonic Porosity overlay
Microresistivity
Array Induction Shallow Focused Electric

TOOLPUSHER WELL DATA SHEET

RIG # 8API # 15-063-22187Trucking companies used to move Rig in: Duke Trucks

OPERATOR: K3/ATI GAS OPER CO
 WELL NAME: CATHRINE COPSLEY 30-14
 SPOT LOC.: SEC 30 Twp 15S R 28W
 COUNTY: Gove Co

W ELEVATIONS: 2542 GL 2550 KB
 GEOLOGIST: PAITON DEWEY

WATER INFORMATION

Owe \$ To:
 Address:

Soc. Sec. #

POND ☒ WELL HAUL ☒
 Location: SMILES NW 1/4 OF LOC

(legal from SE corner if you have it)

Pit Liner From Hoxie Tank
 Pump/Line From WATER PIT TO TANK
 Hauled by Hoxie
 Hauled From Pond SMILES NW 1/4 OF LOC

Water Well By SAMPLE BAGS USED: 2 BOXES

DIRT WORK: YES Steel Pits NO
 Dozer: FLATLANDER DOZER
 Cellar/Runaround: SAME
 Dozer to Help Move IN NO OUT
 Whose:

ANHYDRITE: 1955-1993
 WELDER: SCREAMEN EAGLE
 MUD COMPANY: KDT
 MUD LOGGER: MBC
 TESTER: TRILOBITE
 LOGGER: WEATHERFORD
 FRAC TANK: HONAS

SPUD: 4-26-2014 5:00 P.M.
 (Date & Time)

CASINGS: CONDUCTOR - Set jts. ()
 " x # @ ' w/ SX

PLUG DOWN: DATE:
 CEMENT COMPANY:
 SET BY:

SURFACE - Set 6 jts. (252)
8 7/8 " x 23 # @ 268 ' w/ 180 SX
CLASS A 3%CC 270 GEL
CEMENT LIA CTRE

Ticket #062918
 PLUG DOWN: 10:00 PM DATE: 4-26-14
 PIPE HAULED BY: OP TRUCKING
 CEMENT COMPANY: ALTEA

PRODUCTION - Set jts. ()
 " x # @ ' w/ SX

PLUG DOWN: DATE:
 CEMENT COMPANY:
 CASING COMPANY:

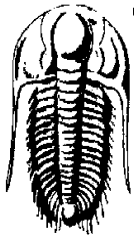
DATE REACHED RTD 5-6-2014
 RTD 4425 ' LTD 4429 ?
 STATE AGENT: PAT STAAB
 DATE CALLED: 5-2-2014

1st Plug	<u>25</u> sx	@	<u>1970</u>
2nd Plug	<u>100</u> sx	@	<u>995</u>
3rd Plug	<u>40</u> sx	@	<u>320</u>
4th Plug	<u>10</u> sx	@	<u>40</u>
5th Plug	<u> </u> sx	@	<u> </u>

Rathole w/ 30 sx Mousehole w/ 15 sxCEMENT TYPE: 220 SX TOTAL 60% 100% 1/4 TS

Ticket #062930
 Time plugging started: 3:00 PM
 PLUG DOWN: 6:00 PM DATE: 5-7-14
 CEMENT COMPANY: ALTEA
 FLUIDS HAULED OFF BY: Hoxie Tank

38" USED: 3665 gal. @ \$



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas

211 Highland Cross
Houston, Tx 77073

ATTN: Pat Deenihan

30-15-28 Gove Ks

CathrineCoberly30-14

Job Ticket: 55749

DST#: 1

Test Start: 2014.05.02 @ 10:32:57

GENERAL INFORMATION:

Formation: **B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:29:57

Time Test Ended: 17:15:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

Interval: 3730.00 ft (KB) To 3770.00 ft (KB) (TVD)

Total Depth: 3770.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2549.00 ft (KB)

2542.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8373 Inside

Press@RunDepth: 50.61 psig @ 3731.00 ft (KB)

Start Date: 2014.05.02

End Date:

2014.05.02

Start Time: 10:33:02

End Time:

17:15:26

Capacity: 8000.00 psig

Last Calib.: 2014.05.02

Time On Btm: 2014.05.02 @ 12:28:57

Time Off Btm: 2014.05.02 @ 15:19:27

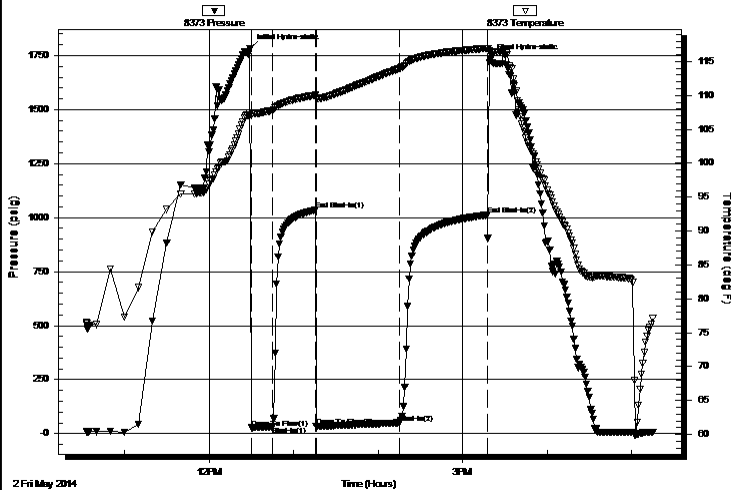
TEST COMMENT: IF: 1 blow built to 2.

IS: No return.

FF: Surface blow built 2.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

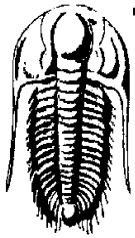
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1783.43	107.36	Initial Hydro-static
1	27.37	106.98	Open To Flow (1)
16	32.30	107.80	Shut-In(1)
47	1035.33	110.04	End Shut-In(1)
47	33.23	109.59	Open To Flow (2)
106	50.61	113.97	Shut-In(2)
169	1012.24	116.94	End Shut-In(2)
171	1734.10	116.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mcw 60%w 40%m	0.84

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas

211 Highland Cross
Houston, Tx 77073

ATTN: Pat Deenihan

30-15-28 Gove Ks

CathrineCoberly30-14

Job Ticket: 55749

DST#: 1

Test Start: 2014.05.02 @ 10:32:57

GENERAL INFORMATION:

Formation: **B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:29:57

Time Test Ended: 17:15:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

Interval: 3730.00 ft (KB) To 3770.00 ft (KB) (TVD)

Total Depth: 3770.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2549.00 ft (KB)

2542.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8356 Outside

Press@RunDepth: psig @ 3731.00 ft (KB)

Start Date: 2014.05.02

End Date:

2014.05.02

Start Time: 10:32:31

End Time:

17:14:55

Capacity: 8000.00 psig

Last Calib.:

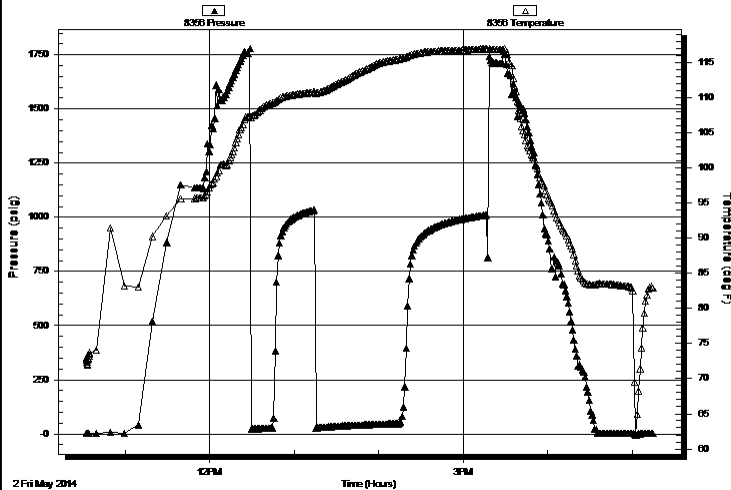
2014.05.02

Time On Btm:

Time Off Btm:

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

Pressure vs. Time



PRESSURE SUMMARY

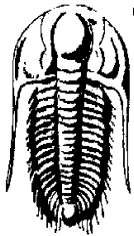
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
60.00	mcw 60%w 40%m	0.84

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas

30-15-28 Gove Ks

211 Highland Cross
Houston, Tx 77073

CathrineCoberly30-14

Job Ticket: 55749

DST#: 1

ATTN: Pat Deenihan

Test Start: 2014.05.02 @ 10:32:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

23000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mcw 60%w 40%m	0.842

Total Length: 60.00 ft

Total Volume: 0.842 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .25@86=23000

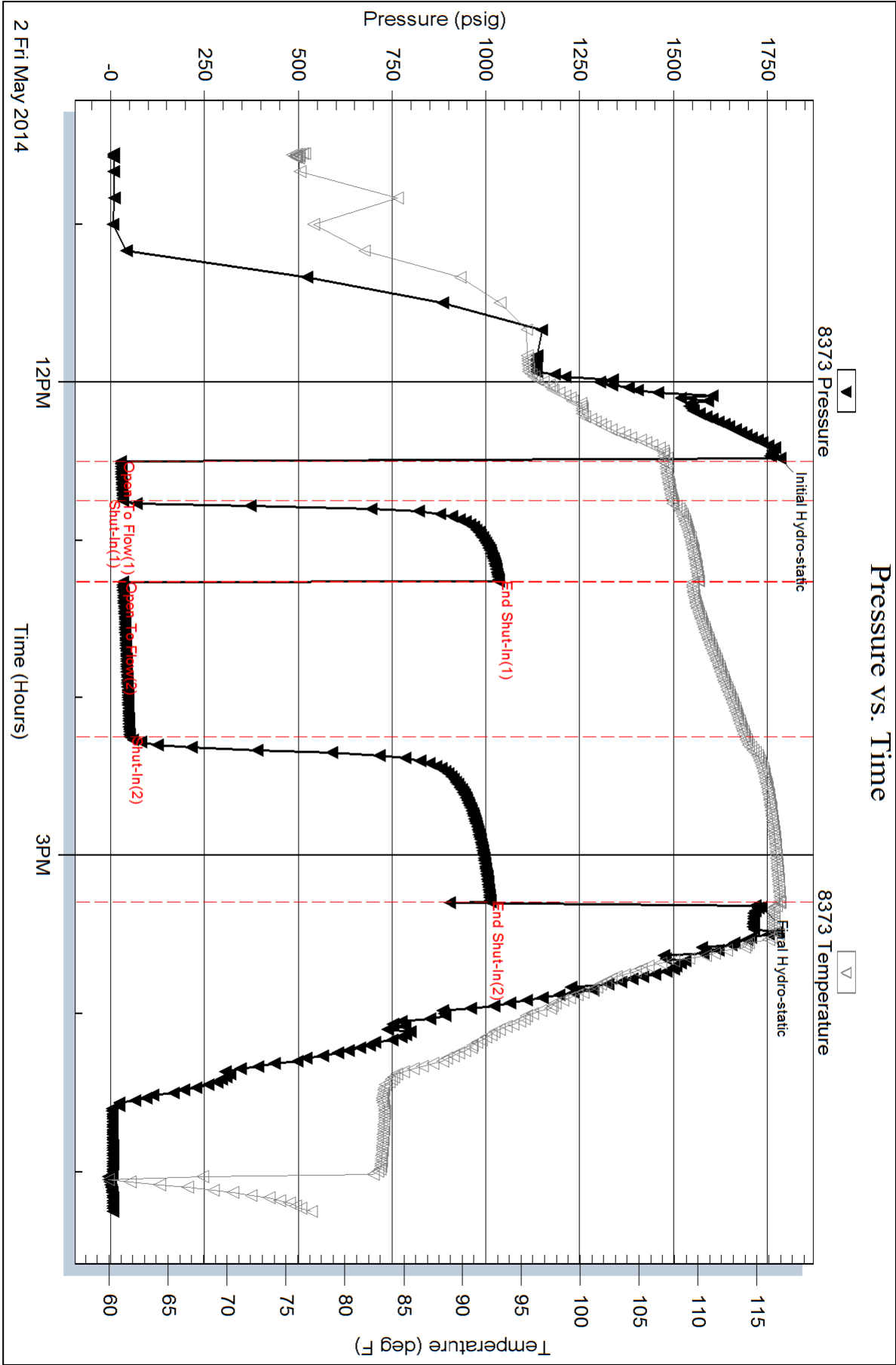
Serial #: 8373

Inside

K3 Oil & Gas

CathrineCoberly30-14

DST Test Number: 1

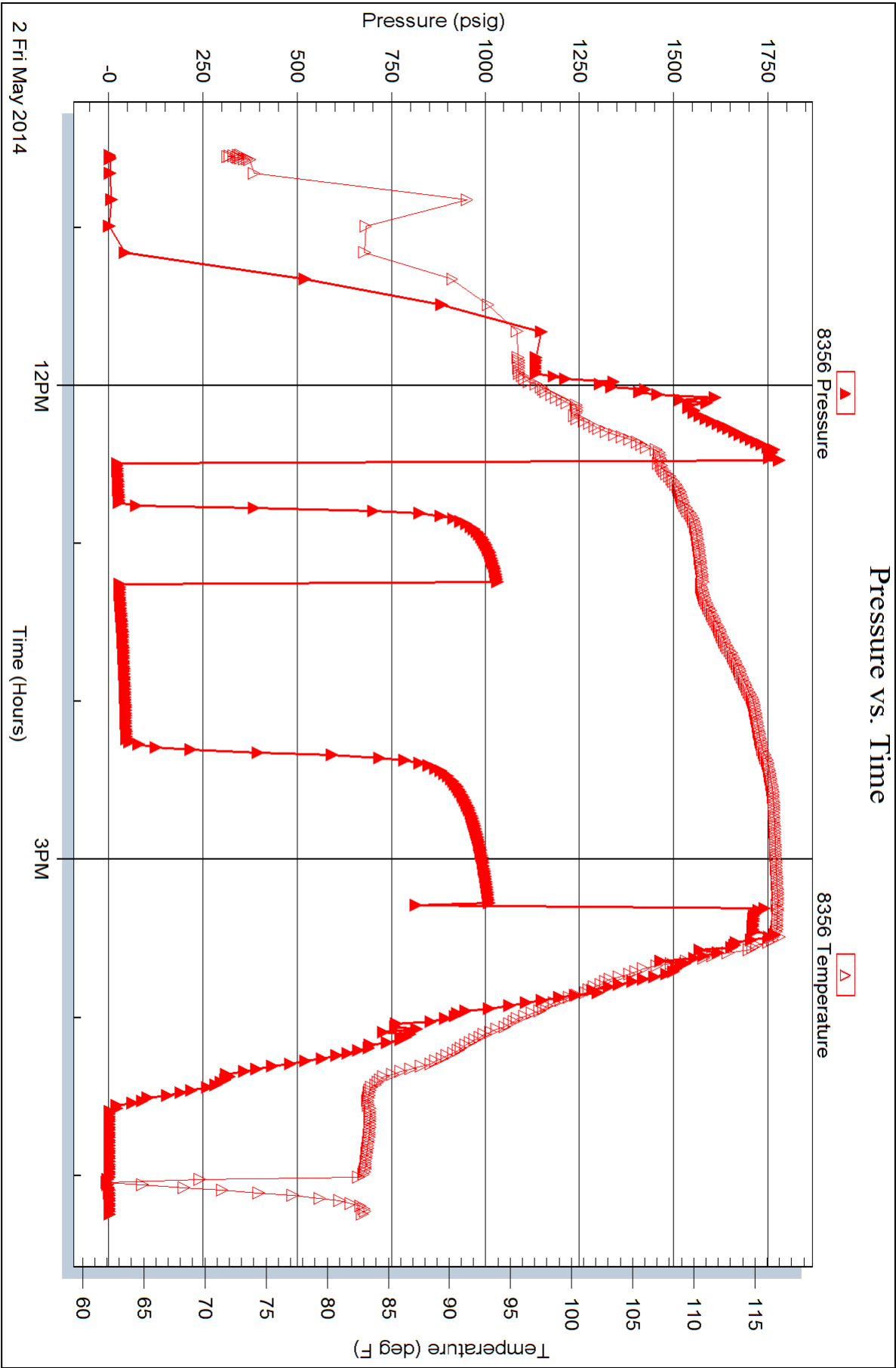


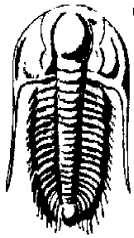
Serial #: 8356

Outside K3 Oil & Gas

CathrineCoberly30-14

DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas

211 Highland Cross
Houston, Tx 77073

ATTN: Pat Deenihan

30-15-28 Gove Ks

CathrineCoberly30-14

Job Ticket: 55750

DST#: 2

Test Start: 2014.05.03 @ 05:59:15

GENERAL INFORMATION:

Formation: **D-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:43:45

Time Test Ended: 12:40:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 3767.00 ft (KB) To 3824.00 ft (KB) (TVD)

Total Depth: 3824.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2549.00 ft (KB)

2542.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8373 Inside

Press@RunDepth: 991.61 psig @ 3768.00 ft (KB)

Start Date: 2014.05.03

End Date:

2014.05.03

Start Time: 05:59:20

End Time:

12:40:14

Capacity: 8000.00 psig

Last Calib.: 2014.05.03

Time On Btm: 2014.05.03 @ 08:42:15

Time Off Btm: 2014.05.03 @ 10:15:15

TEST COMMENT: IF: BOB in 30 sec.

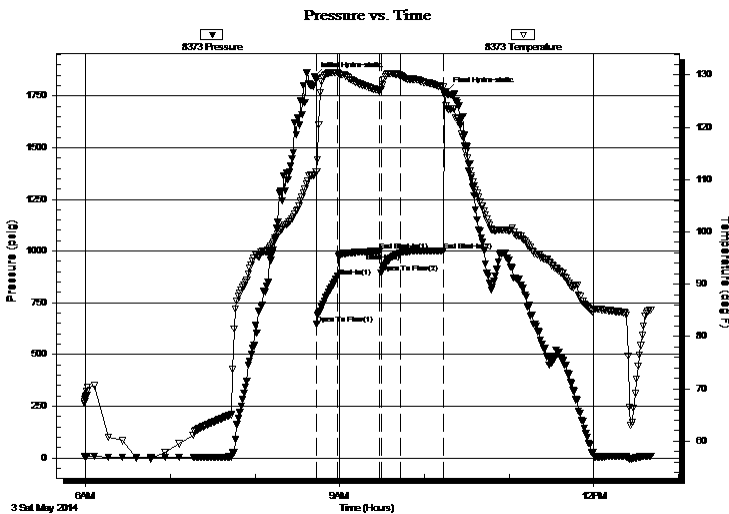
IS: No return.

FF: BOB in 1 min.

FS: No return.

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1841.24	110.95	Initial Hydro-static
2	646.62	111.48	Open To Flow (1)
16	876.78	130.48	Shut-In(1)
46	998.79	126.97	End Shut-In(1)
47	893.85	127.17	Open To Flow (2)
61	991.61	129.91	Shut-In(2)
91	1001.23	127.67	End Shut-In(2)
93	1771.22	124.20	Final Hydro-static



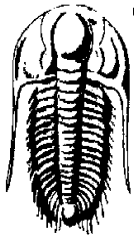
Recovery

Length (ft)	Description	Volume (bbl)
1488.00	water 100%w	20.87
248.00	mcw 60%w 40%m	3.48
310.00	w cm 5%w 95%m	4.35

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas

211 Highland Cross
Houston, Tx 77073

ATTN: Pat Deenihan

30-15-28 Gove Ks

CathrineCoberly30-14

Job Ticket: 55750

DST#: 2

Test Start: 2014.05.03 @ 05:59:15

GENERAL INFORMATION:

Formation: **D-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:43:45

Time Test Ended: 12:40:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 3767.00 ft (KB) To 3824.00 ft (KB) (TVD)

Total Depth: 3824.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2549.00 ft (KB)

2542.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8356 Outside

Press@RunDepth: psig @ 3768.00 ft (KB)

Start Date: 2014.05.03

End Date:

2014.05.03

Start Time: 05:59:07

End Time:

12:39:31

Capacity: 8000.00 psig

Last Calib.:

2014.05.03

Time On Btm:

Time Off Btm:

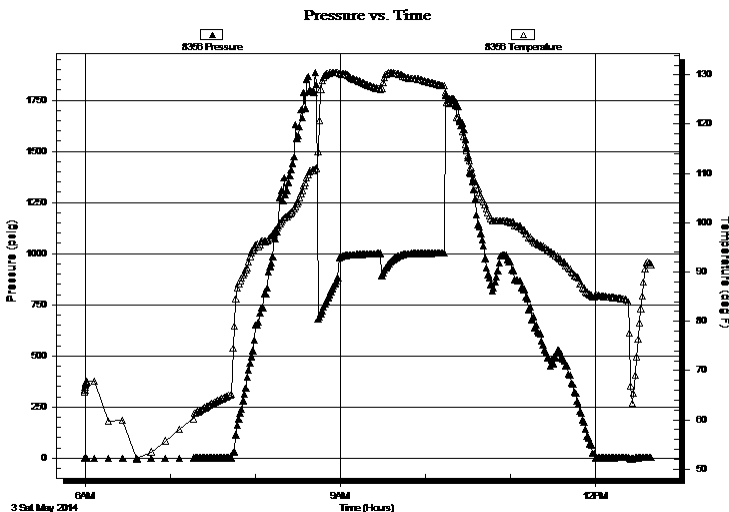
TEST COMMENT: IF: BOB in 30 sec.

IS: No return.

FF: BOB in 1 min.

FS: No return.

PRESSURE SUMMARY



Time
(Min.)

Pressure
(psig)

Temp
(deg F)

Annotation

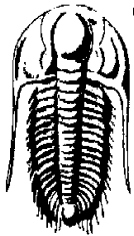
Recovery

Length (ft)	Description	Volume (bbl)
1488.00	water 100%w	20.87
248.00	mcw 60%w 40%m	3.48
310.00	w cm 5%w 95%m	4.35

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas

30-15-28 Gove Ks

211 Highland Cross
Houston, Tx 77073

CathrineCoberly30-14

Job Ticket: 55750

DST#: 2

ATTN: Pat Deenihan

Test Start: 2014.05.03 @ 05:59:15

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:

24000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1488.00	water 100%w	20.873
248.00	mcw 60%w 40%m	3.479
310.00	w cm 5%w 95%m	4.348

Total Length: 2046.00 ft

Total Volume: 28.700 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .25@82=24000

Serial #: 8373

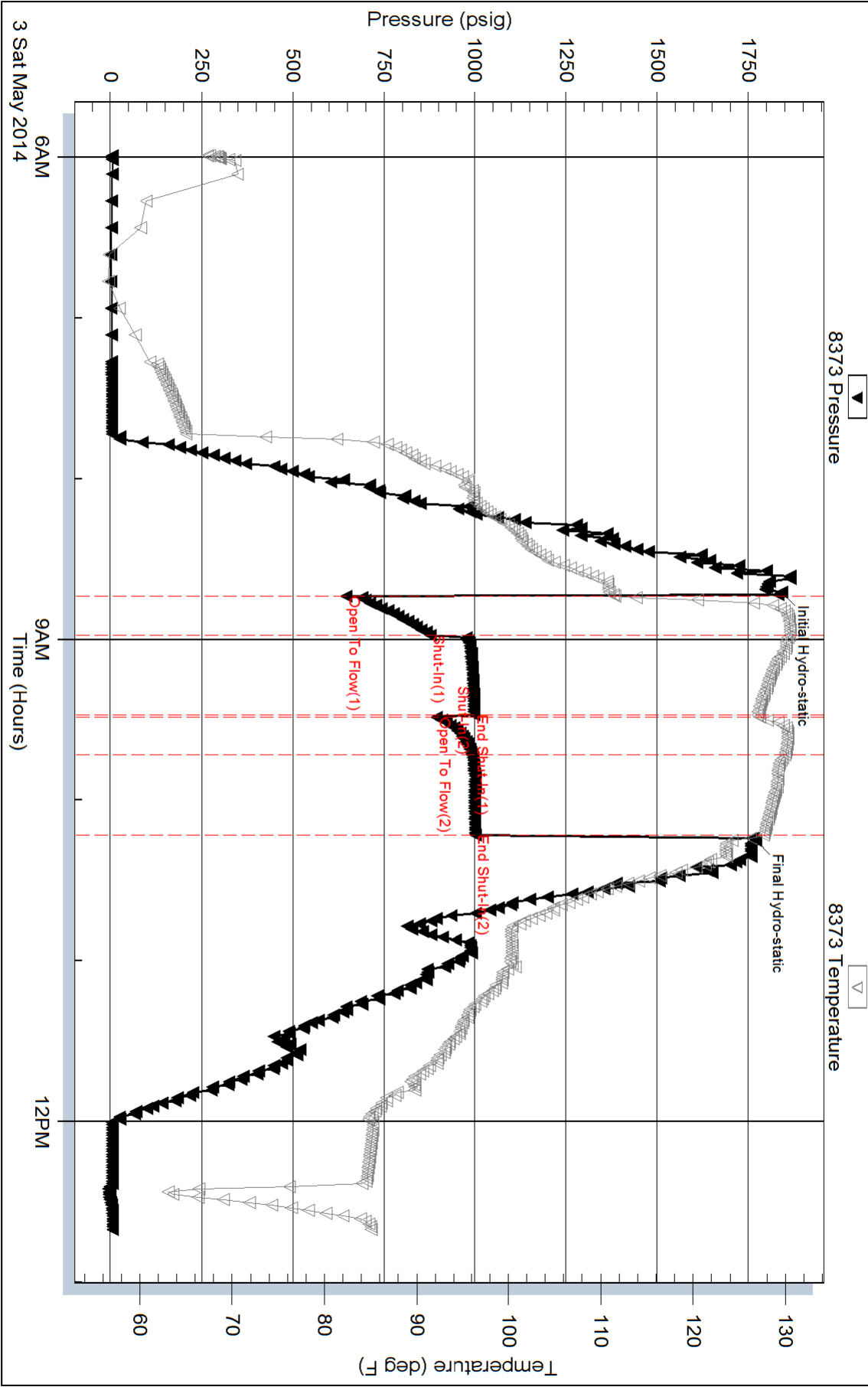
Inside

K3 Oil & Gas

CathrineCoberly30-14

DST Test Number: 2

Pressure vs. Time

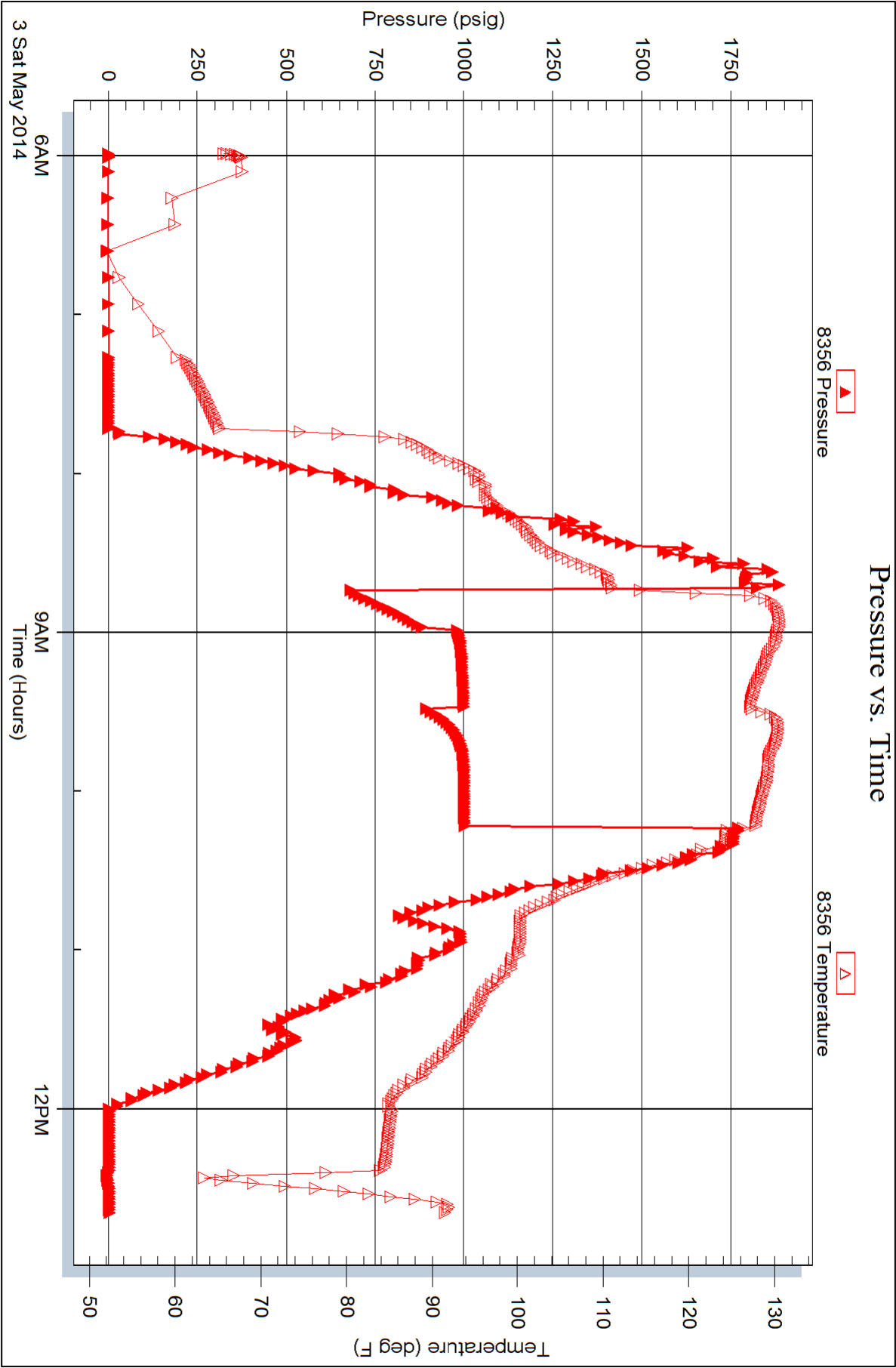


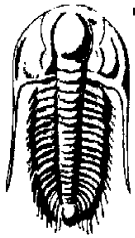
Serial #: 8356

Outside K3 Oil & Gas

CathrineCoberly30-14

DST Test Number: 2





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas

211 Highland Cross
Houston, Tx 77073

ATTN: Pat Deenihan

30-15-28 Gove Ks

CathrineCoberly30-14

Job Ticket: 56476

DST#: 3

Test Start: 2014.05.04 @ 02:50:15

GENERAL INFORMATION:

Formation: **H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:39:45

Time Test Ended: 08:55:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 3870.00 ft (KB) To 3934.00 ft (KB) (TVD)

Total Depth: 3934.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2549.00 ft (KB)

2542.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8373 Inside

Press@RunDepth: 29.54 psig @ 3871.00 ft (KB)

Start Date: 2014.05.04

End Date:

2014.05.04

Start Time: 02:50:20

End Time:

08:55:14

Capacity: 8000.00 psig

Last Calib.: 2014.05.04

Time On Btm: 2014.05.04 @ 05:38:15

Time Off Btm: 2014.05.04 @ 07:28:15

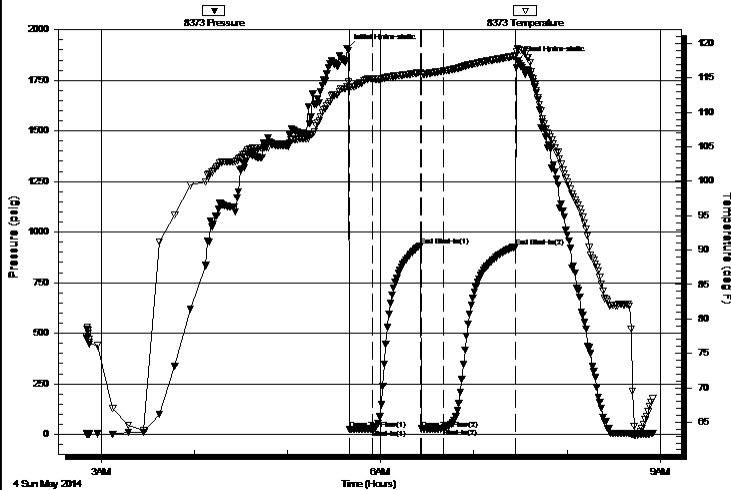
TEST COMMENT: IF: 1/4 blow died to surface.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1907.60	113.70	Initial Hydro-static
2	26.13	113.78	Open To Flow (1)
17	27.49	114.90	Shut-In(1)
47	931.04	115.77	End Shut-In(1)
48	27.81	115.43	Open To Flow (2)
62	29.54	116.00	Shut-In(2)
109	928.00	118.17	End Shut-In(2)
110	1845.11	119.29	Final Hydro-static

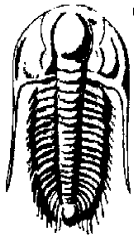
Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100% m	0.14

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas

211 Highland Cross
Houston, Tx 77073

ATTN: Pat Deenihan

30-15-28 Gove Ks

CathrineCoberly30-14

Job Ticket: 56476

DST#: 3

Test Start: 2014.05.04 @ 02:50:15

GENERAL INFORMATION:

Formation: **H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:39:45

Time Test Ended: 08:55:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 3870.00 ft (KB) To 3934.00 ft (KB) (TVD)

Total Depth: 3934.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2549.00 ft (KB)

2542.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8356 Outside

Press@RunDepth: psig @ 3871.00 ft (KB)

Start Date: 2014.05.04

End Date:

2014.05.04

Start Time: 02:50:58

End Time:

08:55:52

Capacity: 8000.00 psig

Last Calib.:

2014.05.04

Time On Btm:

Time Off Btm:

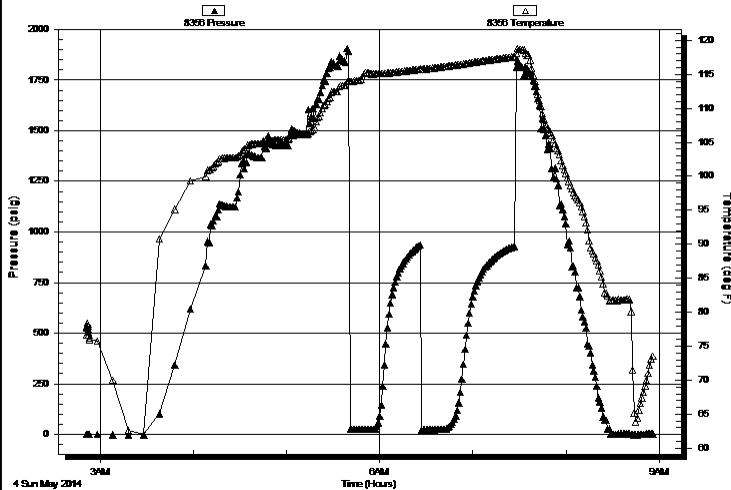
TEST COMMENT: IF: 1/4 blow died to surface.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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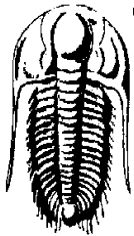
Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100% m	0.14

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas

30-15-28 Gove Ks

211 Highland Cross
Houston, Tx 77073

CathrineCoberly30-14

Job Ticket: 56476

DST#: 3

ATTN: Pat Deenihan

Test Start: 2014.05.04 @ 02:50:15

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.20 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
10.00	mud 100%m	0.140

Total Length: 10.00 ft

Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

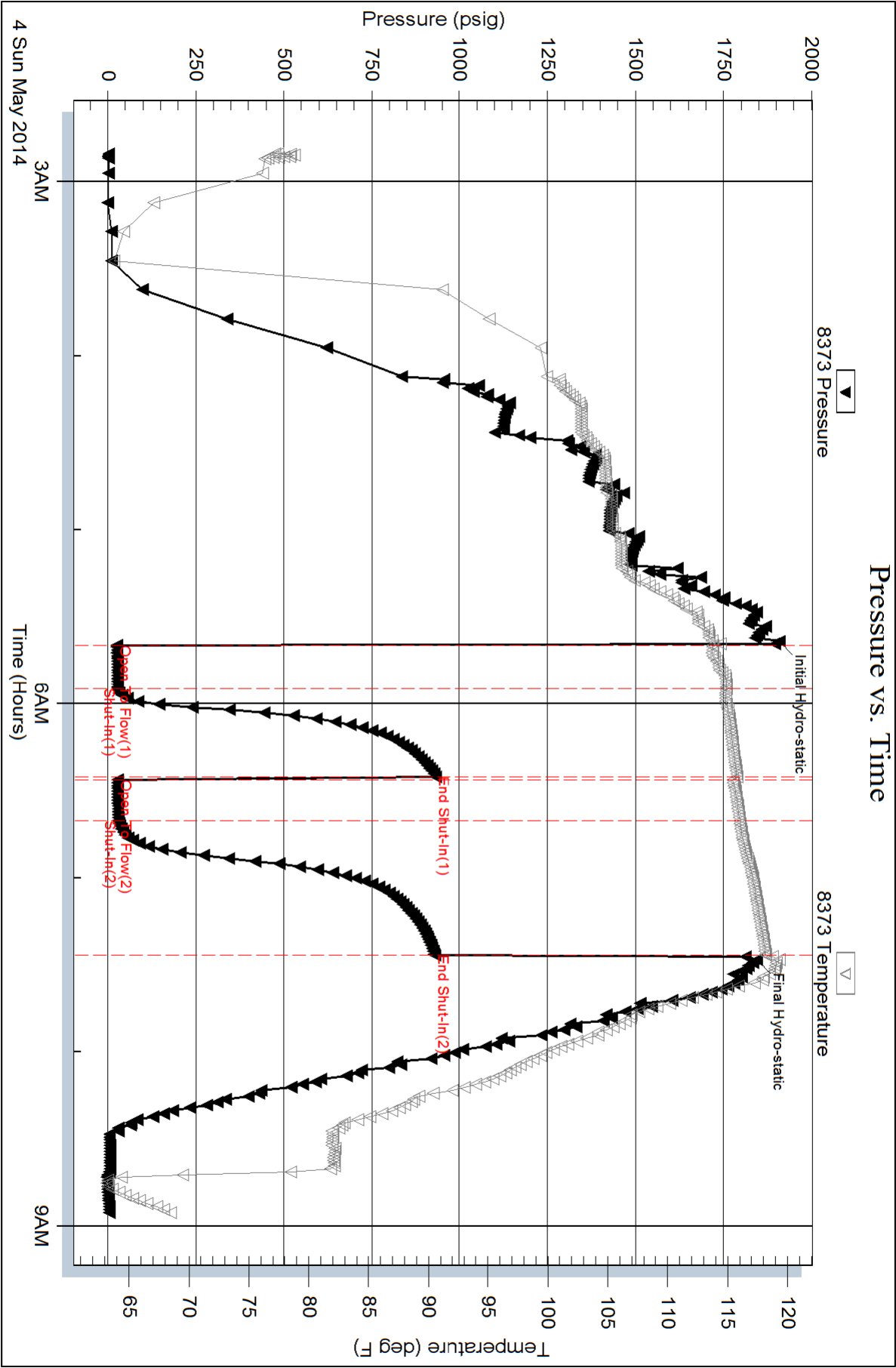
Serial #: 8373

Inside

K3 Oil & Gas

CathrineCoberly30-14

DST Test Number: 3

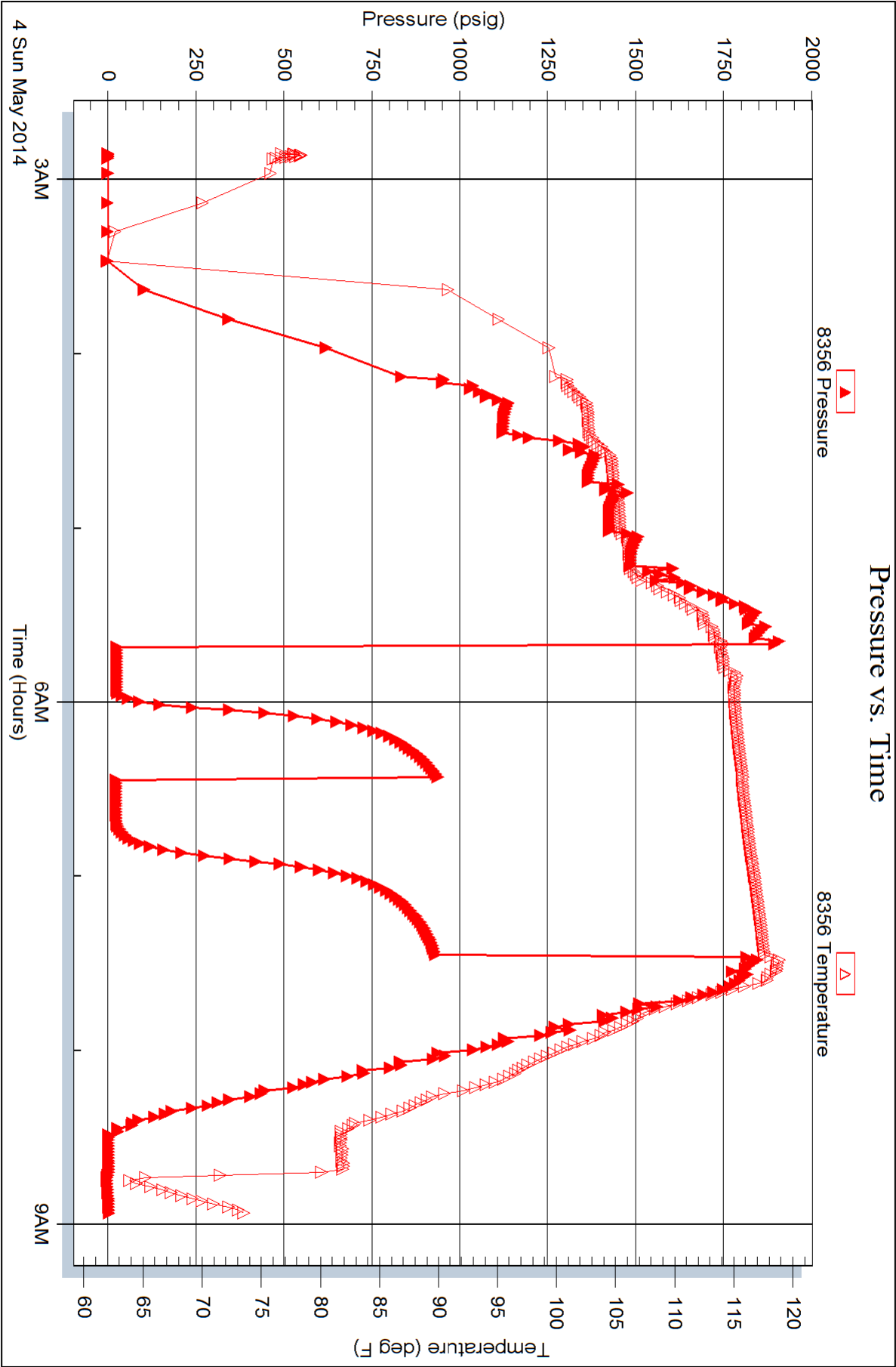


Serial #: 8356

Outside K3 Oil & Gas

CathrineCoberly30-14

DST Test Number: 3





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas

211 Highland Cross
Houston, Tx 77073

ATTN: Pat Deenihan

30-15-28 Gove Ks

CathrineCoberly30-14

Job Ticket: 56477

DST#: 4

Test Start: 2014.05.05 @ 00:11:15

GENERAL INFORMATION:

Formation: **JKL**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:52:15

Time Test Ended: 07:25:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 3933.00 ft (KB) To 4040.00 ft (KB) (TVD)

Total Depth: 4040.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2549.00 ft (KB)

2542.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8373 Inside

Press@RunDepth: 381.48 psig @ 3938.00 ft (KB)

Start Date: 2014.05.05

End Date:

2014.05.05

Start Time: 00:11:20

End Time:

07:25:44

Capacity: 8000.00 psig

Last Calib.: 2014.05.05

Time On Btm: 2014.05.05 @ 02:50:15

Time Off Btm: 2014.05.05 @ 04:25:45

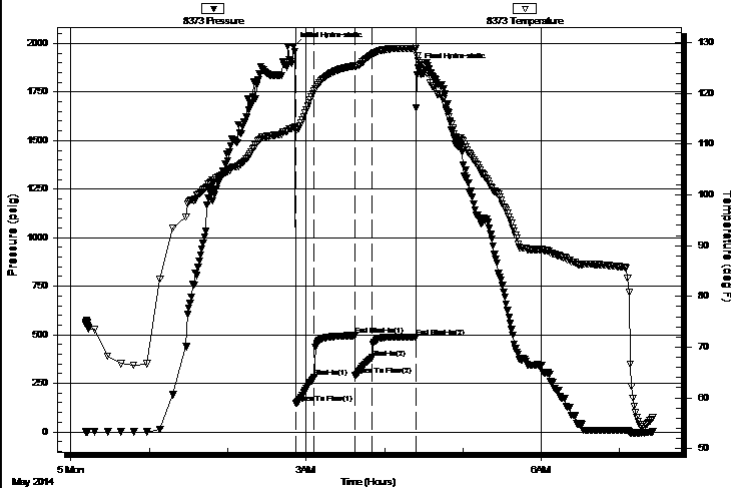
TEST COMMENT: IF: BOB in 1 1/2 min.

IS: No return.

FF: BOB in 3 min.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1983.76	113.23	Initial Hydro-static
2	148.53	112.83	Open To Flow (1)
16	281.38	120.45	Shut-In(1)
47	496.42	125.43	End Shut-In(1)
48	292.08	125.38	Open To Flow (2)
60	381.48	127.65	Shut-In(2)
94	487.97	128.81	End Shut-In(2)
96	1877.38	126.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	ocmw 5%o 90%w 5%m	2.61
310.00	gocmw 10%g 10%o 75%w 5%m	4.35
279.00	ocmw 10%o 60%w 30%m	3.91

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas

30-15-28 Gove Ks

211 Highland Cross
Houston, Tx 77073

CathrineCoberly30-14

Job Ticket: 56477

DST#: 4

ATTN: Pat Deenihan

Test Start: 2014.05.05 @ 00:11:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 7.20 in³

Resistivity: 0.00 ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

0 deg API

42000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	ocmw 5%o 90%w 5%m	2.609
310.00	gocmw 10%g 10%o 75%w 5%m	4.348
279.00	ocmw 10%o 60%w 30%m	3.914

Total Length: 775.00 ft Total Volume: 10.871 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .24@52=42000

Serial #: 8373

Inside

K3 Oil & Gas

CathrineCoberly30-14

DST Test Number: 4

Pressure vs. Time

