



KANSAS CORPORATION COMMISSION 1154017
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1154017

Operator Name: _____ Lease Name: _____ Well #: _____

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Formation Tops

	DK Operating, Inc.
	Dink #3
	Sec. 17 T21s R22w
	2210' FNL & 840' FWL
Formation	
Anhydrite	1439', +839
Base	1471', +807
Heebner	3754', -1476
Lansing	3805', -1527
BKc	4156', -1878
Pawnee	4254', -1976
Fort Scott	4321', -2043
Cherokee	4343', -2065
Mississippian	4403', -2125
Osage	4417', -2139
RTD	4430', -2152

Sample Zone Descriptions

- Fort Scott** **(4321', -2043):** **Covered in DST #1**
 Ls – Fine crystalline with poor to scattered fair inter-crystalline porosity, light to fair spotted oil stain in porosity, slight show of free oil, light odor, fair yellow fluorescents.
- Miss. Osage** **(4417', -2139):** **Covered in DST #2,3**
 Δ – Dolo – Mostly fresh, triptolic in part with good vuggy porosity, few pieces with mottled dolomite, fine crystalline with scattered poor inter-crystalline porosity, light to fair oil stain, fair show of free oil, good odor, good yellow fluorescents.



DRILL STEM TEST REPORT

Prepared For: **DK Operating Inc.**

24583 NW 208 Rd
Jetmore KS 67854

ATTN: Jason Alm

Dink #3

17-21s-22w Hodgeman,KS

Start Date: 2013.05.14 @ 18:08:00

End Date: 2013.05.15 @ 00:41:39

Job Ticket #: 48856 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.05.22 @ 10:48:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

DK Operating Inc.

17-21s-22w Hodgeman, KS

24583 NW 208 Rd
Jetmore KS 67854

Dink #3

Job Ticket: 48856

DST#: 1

ATTN: Jason Alm

Test Start: 2013.05.14 @ 18:08:00

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:22:25

Time Test Ended: 00:41:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 58

Interval: 4305.00 ft (KB) To 4365.00 ft (KB) (TVD)

Reference Elevations: 2278.00 ft (KB)

Total Depth: 4365.00 ft (KB) (TVD)

2271.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8674 Inside

Press @ Run Depth: 18.81 psig @ 4307.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.14

End Date:

2013.05.15

Last Calib.: 2013.05.15

Start Time: 18:08:00

End Time:

00:41:39

Time On Btm: 2013.05.14 @ 20:22:10

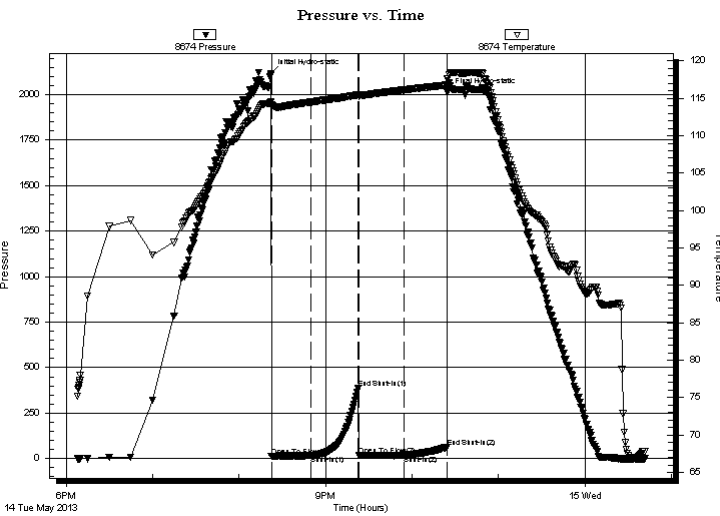
Time Off Btm: 2013.05.14 @ 22:24:39

TEST COMMENT: IF- Weak Surface Blow 1/4"

IS- No Blow

FF- No Blow

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.30	114.56	Initial Hydro-static
1	13.25	113.94	Open To Flow (1)
28	16.61	114.50	Shut-In(1)
61	385.24	115.48	End Shut-In(1)
61	17.81	115.31	Open To Flow (2)
93	18.81	116.13	Shut-In(2)
123	62.81	116.78	End Shut-In(2)
123	2013.43	117.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% m with a Few Oil Spots	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

DK Operating Inc.

17-21s-22w Hodgeman, KS

24583 NW 208 Rd
Jetmore KS 67854

Dink #3

Job Ticket: 48856

DST#: 1

ATTN: Jason Alm

Test Start: 2013.05.14 @ 18:08:00

Tool Information

Drill Pipe:	Length: 4311.00 ft	Diameter: 3.80 inches	Volume: 60.47 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	8000.00 lb
			<u>Total Volume: 60.47 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4305.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	80.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4286.00	
Shut In Tool	5.00			4291.00	
Hydraulic tool	5.00			4296.00	
Packer	5.00			4301.00	20.00 Bottom Of Top Packer
Packer	4.00			4305.00	
Stubb	1.00			4306.00	
Perforations	1.00			4307.00	
Recorder	0.00	8355	Outside	4307.00	
Recorder	0.00	8674	Inside	4307.00	
Perforations	20.00			4327.00	
Change Over Sub	1.00			4328.00	
Drill Pipe	31.00			4359.00	
Change Over Sub	1.00			4360.00	
Bullnose	5.00			4365.00	60.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

DK Operating Inc.

17-21s-22w Hodgeman,KS

24583 NW 208 Rd
Jetmore KS 67854

Dink #3

Job Ticket: 48856

DST#: 1

ATTN: Jason Alm

Test Start: 2013.05.14 @ 18:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.72 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100%m with a Few Oil Spots	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 #: 8674

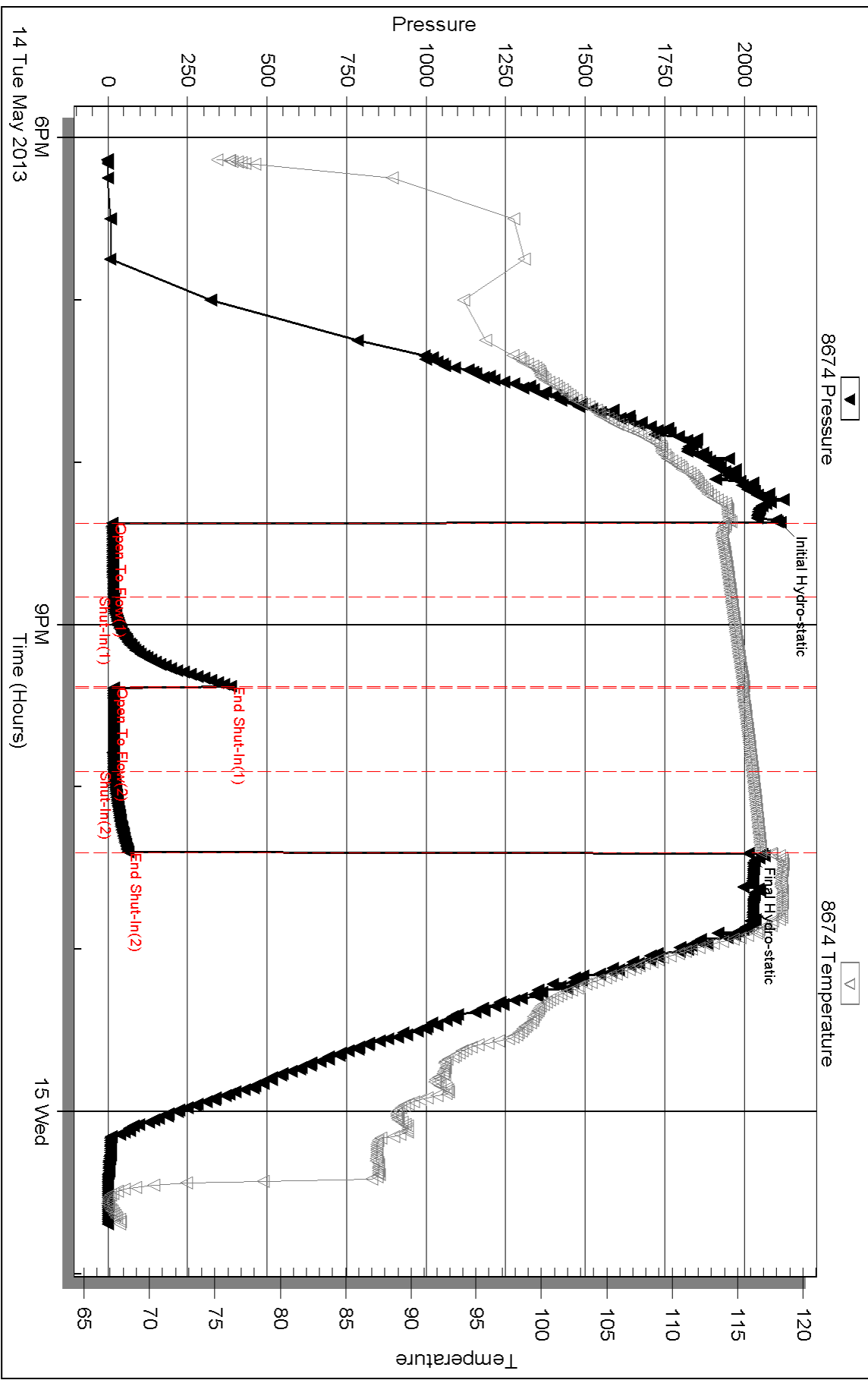
Inside

DK Operating Inc.

Dnk #3

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48856

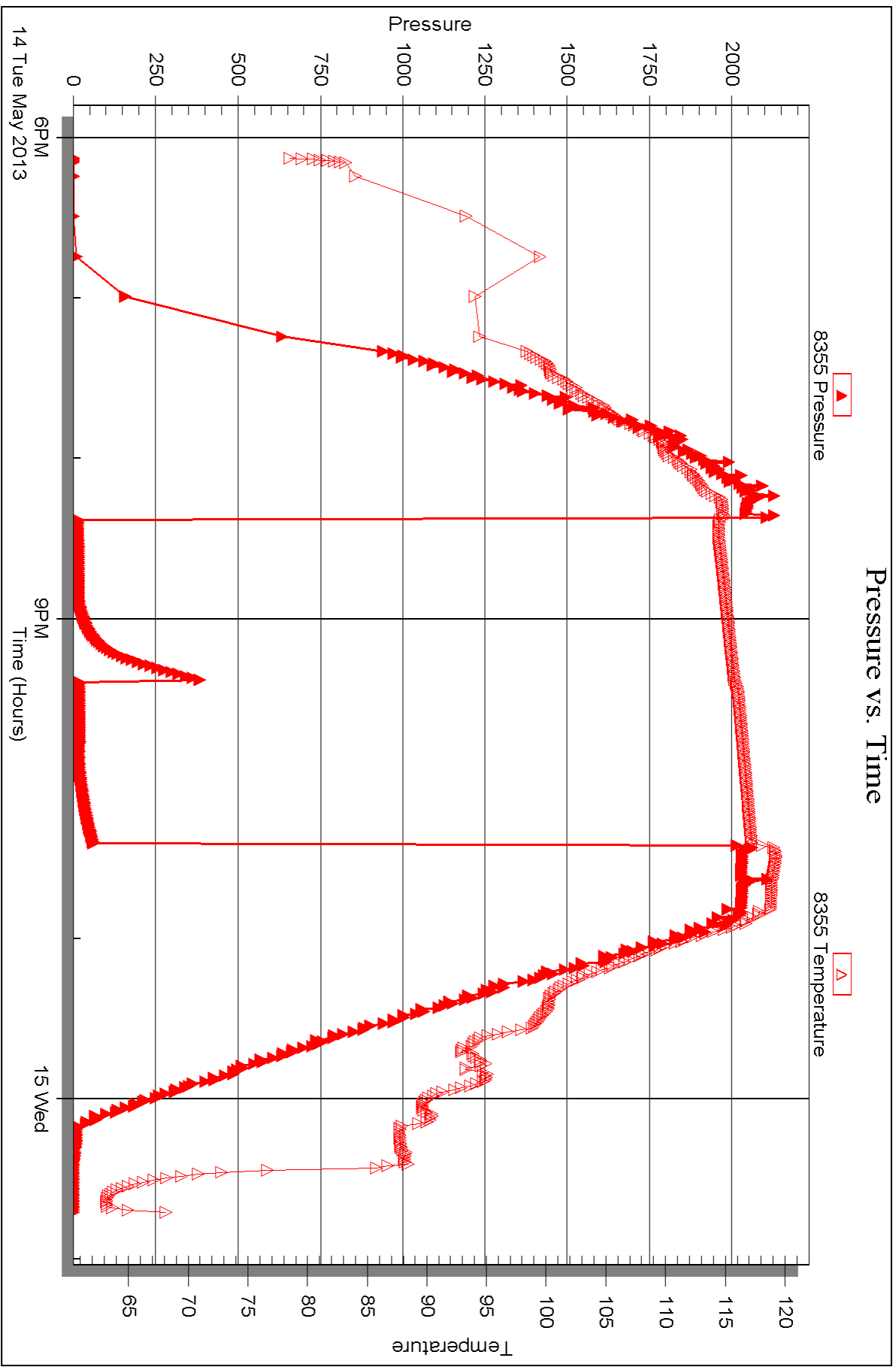
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Serial #: 8355

Outside DK Operating Inc.

Dnk #3

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 48856

Printed: 2013.05.22 @ 10:48:44



DRILL STEM TEST REPORT

Prepared For: **DK Operating Inc.**

24583 NW 208 Rd
Jetmore KS 67854

ATTN: Jason Alm

Dink #3

17-21s-22w Hodgeman,KS

Start Date: 2013.05.15 @ 12:10:00

End Date: 2013.05.15 @ 19:44:54

Job Ticket #: 48857 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.05.22 @ 10:42:50



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

DK Operating Inc.

17-21s-22w Hodgeman, KS

24583 NW 208 Rd
Jetmore KS 67854

Dink #3

Job Ticket: 48857

DST#: 2

ATTN: Jason Alm

Test Start: 2013.05.15 @ 12:10:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:15:55

Time Test Ended: 19:44:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4419.00 ft (KB) To 4425.00 ft (KB) (TVD)

Reference Elevations: 2278.00 ft (KB)

Total Depth: 4425.00 ft (KB) (TVD)

2271.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 57.71 psig @ 4420.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.15

End Date:

2013.05.15

Last Calib.: 2013.05.15

Start Time: 12:10:00

End Time:

19:44:54

Time On Btm: 2013.05.15 @ 14:15:40

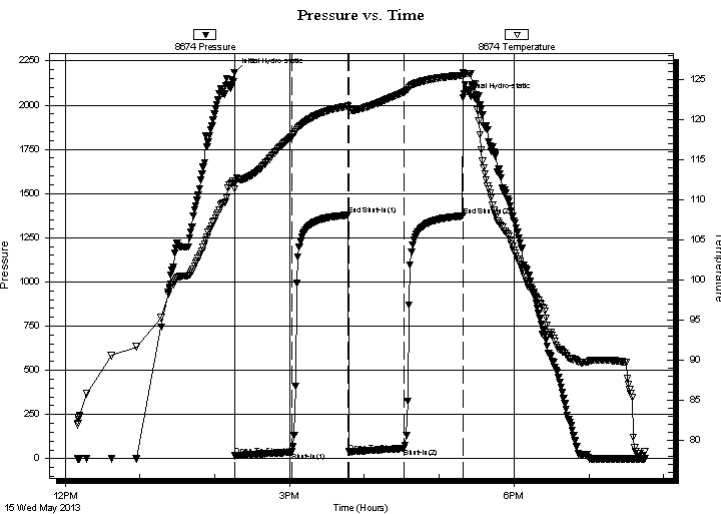
Time Off Btm: 2013.05.15 @ 17:19:09

TEST COMMENT: IF- Weak Surface Blow Built to 5 3/4"

IS- No Blow

FF- Weak Surface Blow Built to 1"

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.32	112.05	Initial Hydro-static
1	17.04	111.32	Open To Flow (1)
46	37.34	117.85	Shut-In(1)
91	1377.89	121.65	End Shut-In(1)
92	38.88	121.18	Open To Flow (2)
137	57.71	123.41	Shut-In(2)
184	1373.08	125.49	End Shut-In(2)
184	2043.72	125.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OGWCM 7%oil 9%g 27%w 67%m	0.28
92.00	GO 6%g 94%oil	1.29

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

DK Operating Inc.

17-21s-22w Hodgeman,KS

24583 NW 208 Rd
Jetmore KS 67854

Dink #3

Job Ticket: 48857

DST#: 2

ATTN: Jason Alm

Test Start: 2013.05.15 @ 12:10:00

Tool Information

Drill Pipe:	Length: 4405.00 ft	Diameter: 3.80 inches	Volume: 61.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 4000.00 lb
			<u>Total Volume: 61.79 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4419.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	34.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4392.00	
Shut In Tool	5.00			4397.00	
Hydraulic tool	5.00			4402.00	
Jars	5.00			4407.00	
Safety Joint	3.00			4410.00	
Packer	5.00			4415.00	28.00 Bottom Of Top Packer
Packer	4.00			4419.00	
Stubb	1.00			4420.00	
Recorder	0.00	8355	Outside	4420.00	
Recorder	0.00	8674	Inside	4420.00	
Bullnose	5.00			4425.00	6.00 Bottom Packers & Anchor

Total Tool Length: 34.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

DK Operating Inc.

17-21s-22w Hodgeman,KS

24583 NW 208 Rd
Jetmore KS 67854

Dink #3

Job Ticket: 48857

DST#: 2

ATTN: Jason Alm

Test Start: 2013.05.15 @ 12:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

19500 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 11.55 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	OGWCM 7%oil 9%g 27%w 67%m	0.281
92.00	GO 6%g 94%oil	1.291

Total Length: 112.00 ft Total Volume: 1.572 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API is 38 @ 80f = 36

RW is .296 @ 78f = 19500

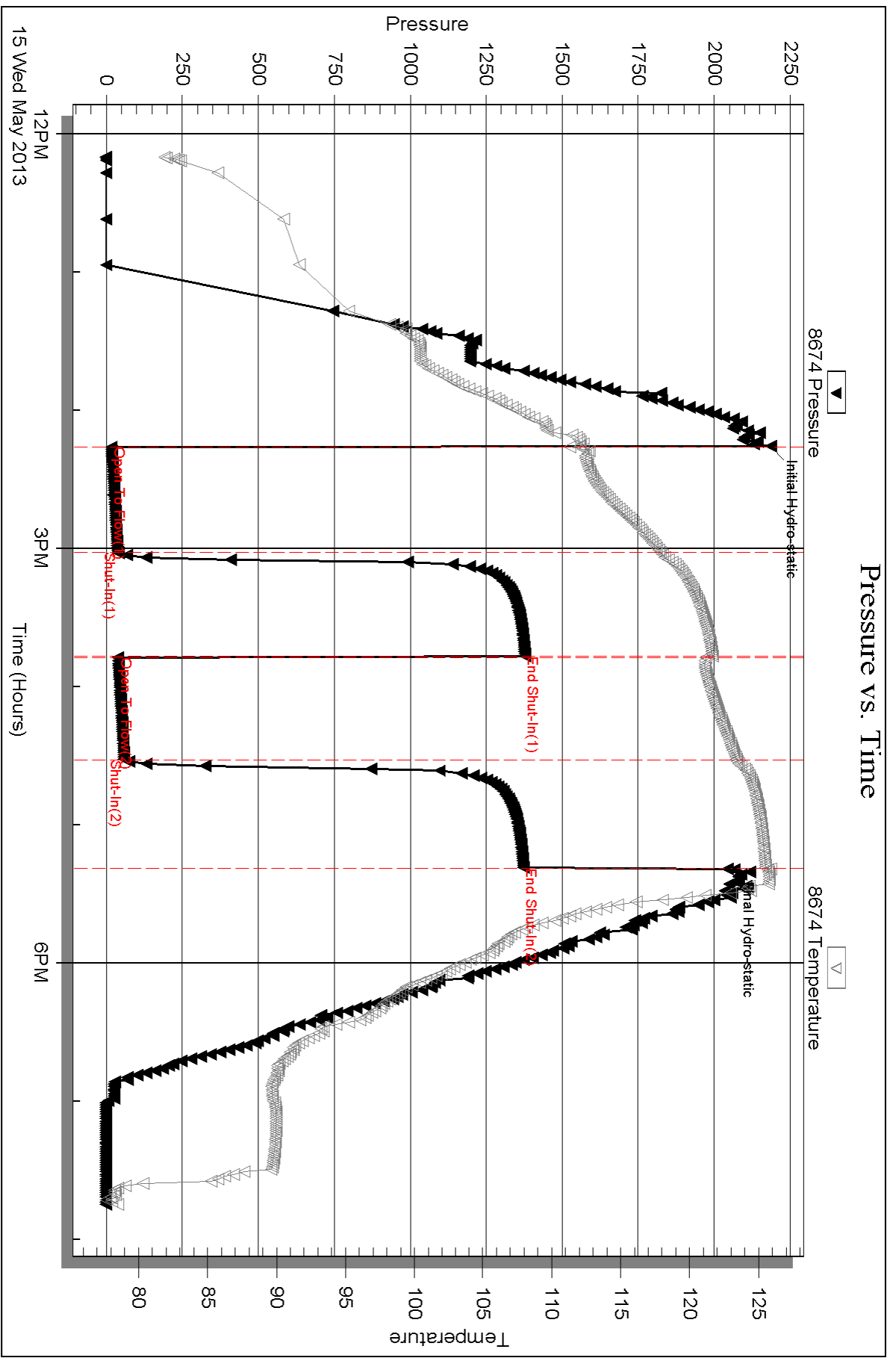
Serial #: 8674

Inside

DK Operating Inc.

Dnk #3

DST Test Number: 2

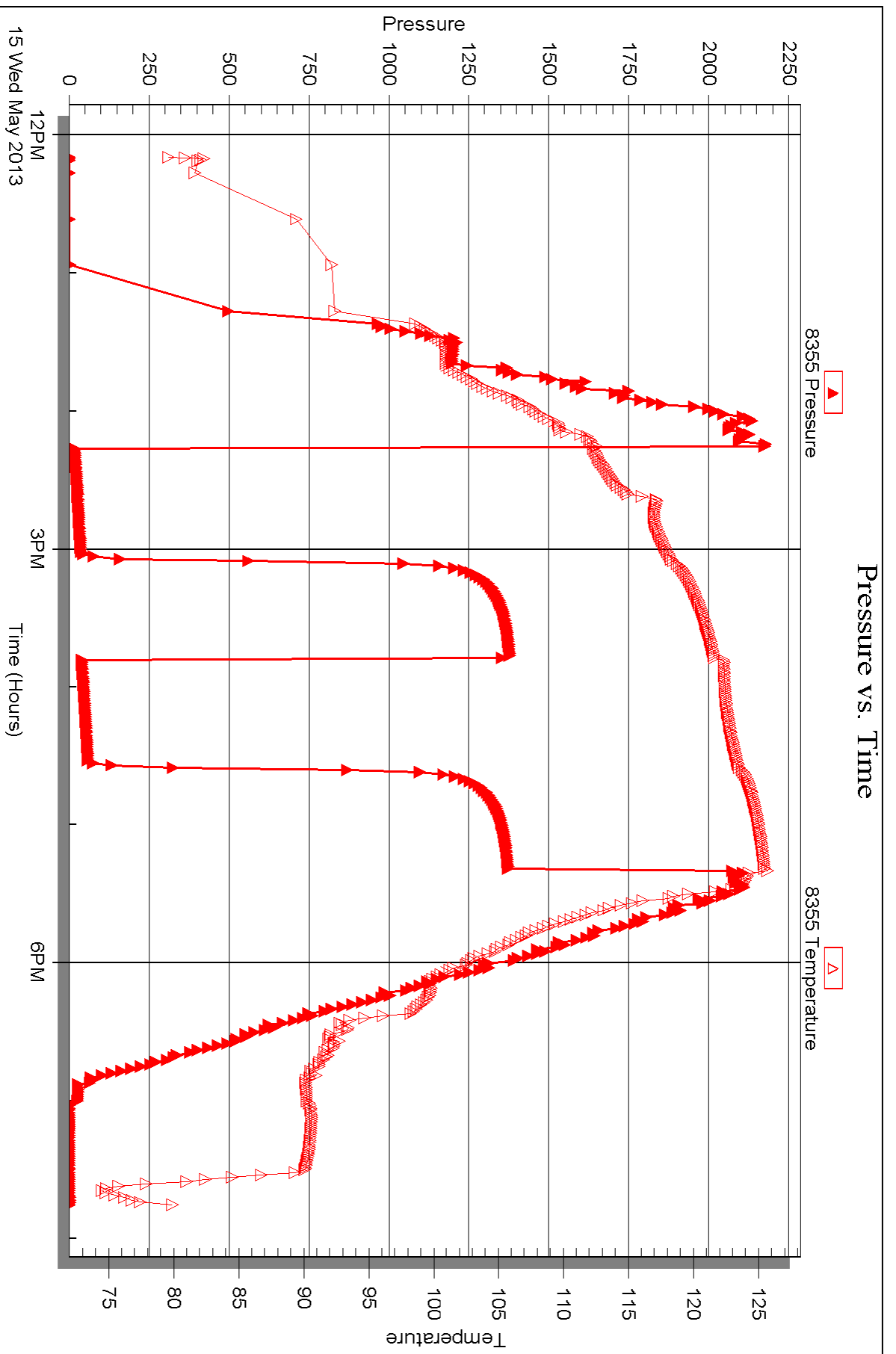


Serial #: 8355

Outside DK Operating Inc.

Dnk #3

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **DK Operating Inc.**

24583 NW 208 Rd
Jetmore KS 67854

ATTN: Jason Alm

Dink #3

17-21s-22w Hodgeman,KS

Start Date: 2013.05.16 @ 06:14:00

End Date: 2013.05.16 @ 13:53:54

Job Ticket #: 48858 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.05.22 @ 10:42:13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

DK Operating Inc.

17-21s-22w Hodgeman, KS

24583 NW 208 Rd
Jetmore KS 67854

Dink #3

Job Ticket: 48858

DST#: 3

ATTN: Jason Alm

Test Start: 2013.05.16 @ 06:14:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:19:40

Time Test Ended: 13:53:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4423.00 ft (KB) To 4430.00 ft (KB) (TVD)

Reference Elevations: 2278.00 ft (KB)

Total Depth: 4430.00 ft (KB) (TVD)

2271.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8674 Inside

Press @ Run Depth: 86.71 psig @ 4425.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.16

End Date: 2013.05.16

Last Calib.: 2013.05.16

Start Time: 06:14:00

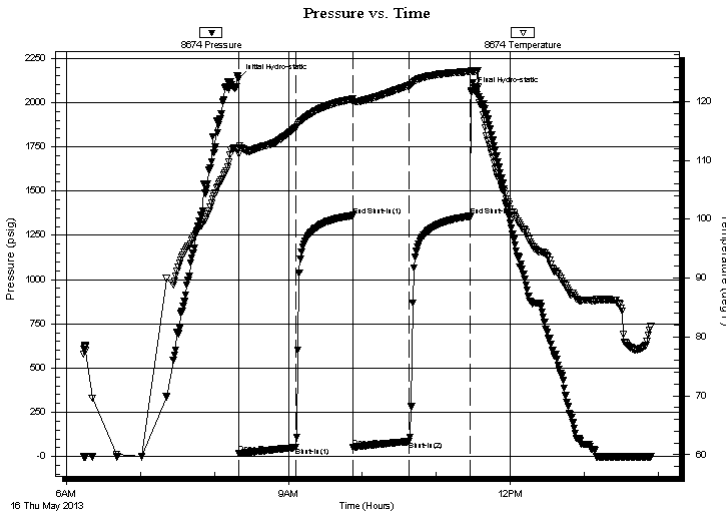
End Time: 13:53:54

Time On Btm: 2013.05.16 @ 08:19:25

Time Off Btm: 2013.05.16 @ 11:28:09

TEST COMMENT: IF- Weak Surface Blow Built to BOB in 45 min
IS- Weak Surface Blow in 18 min Died in 35 min
FF- Weak Surface Blow Built to 10 1/2"
FS- Weak Surface Blow in 15 min Died in 40 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2136.87	111.82	Initial Hydro-static
1	17.48	111.06	Open To Flow (1)
47	52.10	115.54	Shut-In(1)
93	1362.04	120.44	End Shut-In(1)
94	53.33	120.01	Open To Flow (2)
139	86.71	122.71	Shut-In(2)
189	1358.02	125.08	End Shut-In(2)
189	2062.06	125.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
52.00	OGMCW 4%oil 8%g 23%m 65%w	0.73
129.00	GO 12%g 88%oil	1.81
0.00	191' of GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

DK Operating Inc.

17-21s-22w Hodgeman,KS

24583 NW 208 Rd
Jetmore KS 67854

Dink #3

Job Ticket: 48858

DST#: 3

ATTN: Jason Alm

Test Start: 2013.05.16 @ 06:14:00

Tool Information

Drill Pipe:	Length: 4407.00 ft	Diameter: 3.80 inches	Volume: 61.82 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	2000.00 lb
			<u>Total Volume: 61.82 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4423.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	7.00 ft				
Tool Length:	35.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4396.00	
Shut In Tool	5.00			4401.00	
Hydraulic tool	5.00			4406.00	
Jars	5.00			4411.00	
Safety Joint	3.00			4414.00	
Packer	5.00			4419.00	28.00 Bottom Of Top Packer
Packer	4.00			4423.00	
Stubb	1.00			4424.00	
Perforations	1.00			4425.00	
Recorder	0.00	8355	Outside	4425.00	
Recorder	0.00	8674	Inside	4425.00	
Bullnose	5.00			4430.00	7.00 Bottom Packers & Anchor

Total Tool Length: 35.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

DK Operating Inc.

17-21s-22w Hodgeman,KS

24583 NW 208 Rd
Jetmore KS 67854

Dink #3

Job Ticket: 48858

DST#: 3

ATTN: Jason Alm

Test Start: 2013.05.16 @ 06:14:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

15500 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.56 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
52.00	OGMCW 4%oil 8%g 23%m 65%w	0.729
129.00	GO 12%g 88%oil	1.810
0.00	191' of GIP	0.000

Total Length: 181.00 ft Total Volume: 2.539 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API is 36 @ 80f = 34

RW is .332 @ 86f = 15500

Serial #: 8674

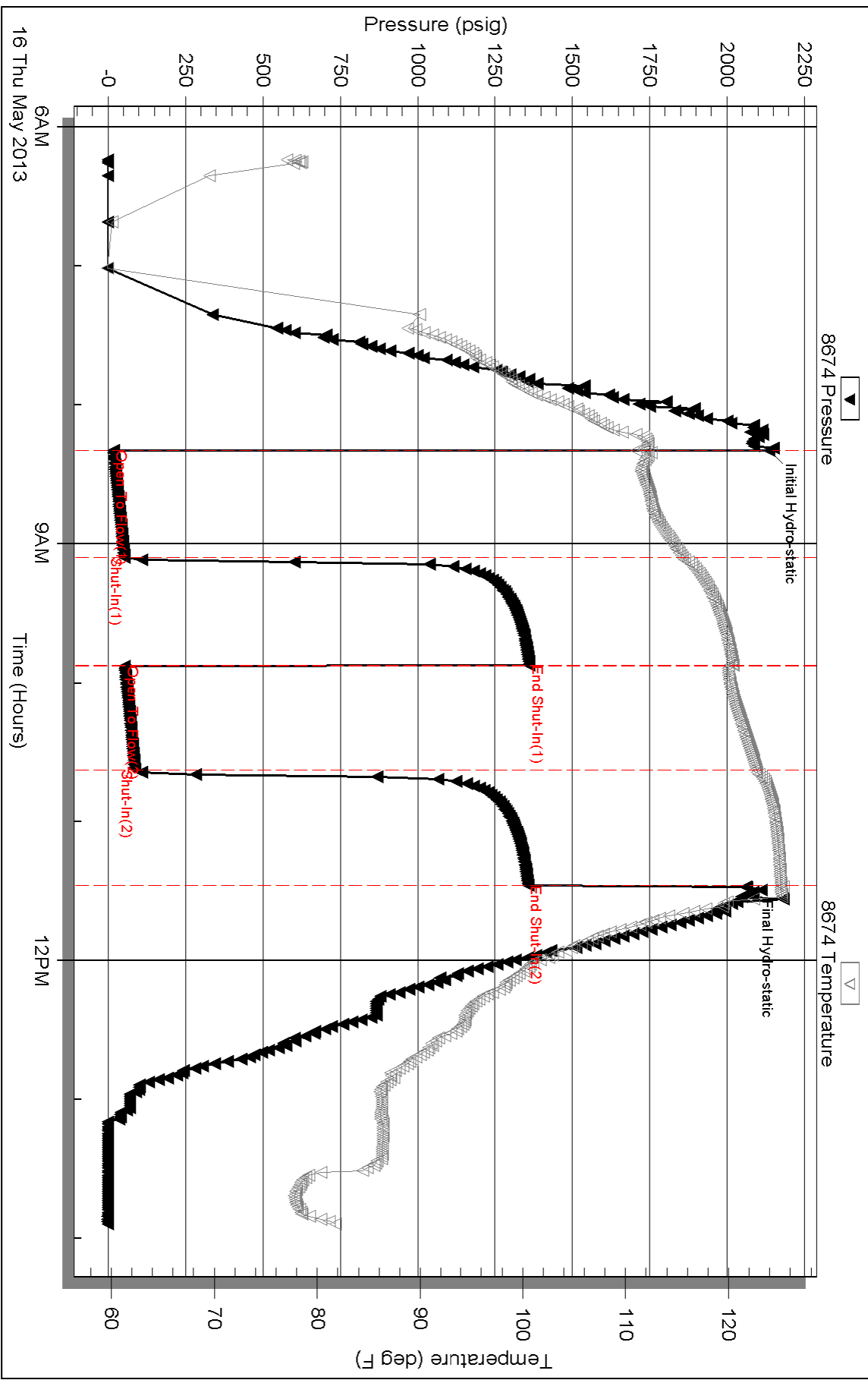
Inside

DK Operating Inc.

Dnk #3

DST Test Number: 3

Pressure vs. Time

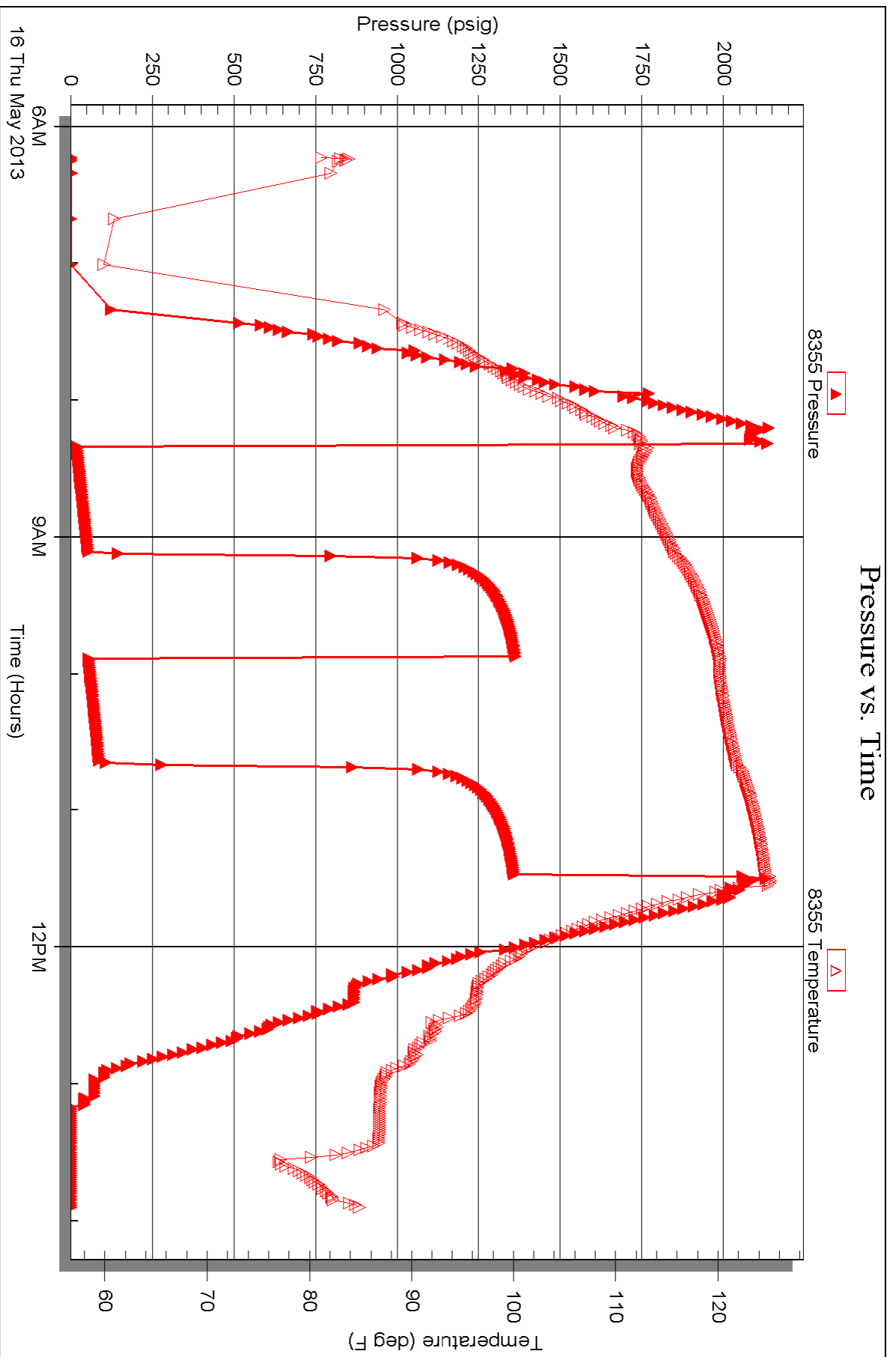


Serial #: 8355

Outside DK Operating Inc.

Dnk #3

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 48858

Printed: 2013.05.22 @ 10:42:16



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48856

Well Name & No. Dink #3 Test No. DST #1 Date 5-14-13
 Company DK Operating Inc Elevation 2278 KB 2271 GL
 Address 24583 NW 208 Rd Jetmore KS 67854
 Co. Rep / Geo. Jason T. Alm Rig Pickrell #10
 Location: Sec. 17 Twp. 21s Rge. 22W Co. Hodgeman State KS

Interval Tested 4305-4365 Zone Tested Ft. Scott
 Anchor Length 60 Drill Pipe Run 4311 Mud Wt. 9.1
 Top Packer Depth 4301 Drill Collars Run 0 Vis 48
 Bottom Packer Depth 4305 Wt. Pipe Run 0 WL 10.8
 Total Depth 4365 Chlorides 4800 ppm System LCM trace
 Blow Description IF- Weak Surface Blow 1/4"
ISI- No Blow
IF- No Blow
FSI- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud with a few oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

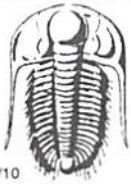
(A) Initial Hydrostatic 2113 Test 1250 T-On Location 14:22
 (B) First Initial Flow 13 Jars _____ T-Started 18:08
 (C) First Final Flow 16 Safety Joint _____ T-Open 20:22
 (D) Initial Shut-In 385 Circ Sub NIC T-Pulled 22:24
 (E) Second Initial Flow 17 Hourly Standby 1/2 150 T-Out 00:41
 (F) Second Final Flow 18 Mileage 156 RIT 241.80
 (G) Final Shut-In 62 Sampler _____
 (H) Final Hydrostatic 2013 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1641.80

Comments Working on elevators
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1641.80
 MP/DST Disc't _____

Approved By _____ Our Representative Will Man

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48857

Well Name & No. Dink #3 Test No. DST #2 Date 5-15-13
 Company DK Operating Inc Elevation 2278 KB 2271 GL
 Address 24583 NW 208 Rd Jetmore KS 67854
 Co. Rep / Geo. Jason Alm Rig Pickrell #10
 Location: Sec. 17 Twp. 21s Rge. 22W Co. Hodgeman C State KS

Interval Tested 4419-4425 Zone Tested Mississippi
 Anchor Length 6 Drill Pipe Run 4405 Mud Wt. 9.1
 Top Packer Depth 4415 Drill Collars Run 0 Vis 48
 Bottom Packer Depth 4419 Wt. Pipe Run 0 WL 11.6
 Total Depth 4425 Chlorides 4900 ppm System LCM Trace

Blow Description IF- Weak Surface Blow Built to 5 3/4"
ISI- No Blow
FF- Weak Surface Blow Built to 1"
FSI- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>92</u>	<u>60</u>	<u>6</u>	<u>94</u>		
<u>20</u>	<u>OG WCM</u>	<u>9</u>	<u>7</u>	<u>27</u>	<u>67</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

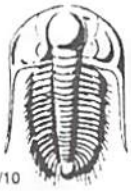
Rec Total 112 BHT 123 Gravity _____ API RW 296 @ 78 °F Chlorides 19500 ppm

(A) Initial Hydrostatic 2185 Test 1250 T-On Location 10:34
 (B) First Initial Flow 17 Jars 250 T-Started 12:10
 (C) First Final Flow 37 Safety Joint 75 T-Open 14:15
 (D) Initial Shut-In 1377 Circ Sub N/C T-Pulled _____
 (E) Second Initial Flow 38 Hourly Standby _____ T-Out 19:44
 (F) Second Final Flow 57 Mileage 156 R/T 241.80 Comments _____
 (G) Final Shut-In 1373 Sampler _____
 (H) Final Hydrostatic 2043 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1816.80

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

Approved By _____ Our Representative Will Man

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48858

Well Name & No. DK #3 Test No. DST #3 Date 5-16-13
 Company DK Operating Inc Elevation 2278 KB 2271 GL
 Address 24583 NW 208 Rd Jetmore KS 67854
 Co. Rep / Geo. Jason Alm Rig Pickrell Rig #10
 Location: Sec. 17 Twp. 21s Rge. 22W Co. Hodgeman State KS

Interval Tested 4423-4430 Zone Tested Mississippi
 Anchor Length 7 Drill Pipe Run 4407 Mud Wt. 9.1
 Top Packer Depth 4419 Drill Collars Run 0 Vis 47
 Bottom Packer Depth 4423 Wt. Pipe Run 0 WL 11.6
 Total Depth 4430 Chlorides 4900 ppm System LCM Trace
 Blow Description IF-Weak Surface Blow Built to 3013 in 45 min
ISI-Weak Surface Blow in 18 min Dird in 35 min
FF-Weak Surface Blow Built to 10 1/2"
FST Weak Surface Blow in 15 min Dird in 40 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>129</u>	<u>G-O</u>	<u>12</u>	<u>88</u>		
<u>52</u>	<u>OG-MCW</u>	<u>8</u>	<u>4</u>	<u>65</u>	<u>23</u>
	<u>191' of G-ZP</u>				

Rec Total 181 BHT 121 Gravity 34 API RW .332 @ 86 °F Chlorides 15500 ppm
 (A) Initial Hydrostatic 2136 Test 1250 T-On Location 3:50
 (B) First Initial Flow 17 Jars 250 T-Started 6:14
 (C) First Final Flow 52 Safety Joint 75 T-Open 8:19
 (D) Initial Shut-In 1362 Circ Sub NIC T-Pulled 11:28
 (E) Second Initial Flow 53 Hourly Standby _____ T-Out 13:53
 (F) Second Final Flow 86 Mileage 156 R/T ^{241.80} Comments API is 36 @ 80 + = 34
 (G) Final Shut-In 1358 Sampler _____
 (H) Final Hydrostatic 2062 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 45 Ruined Shale Packer _____
 Initial Shut-In 45 Ruined Packer _____
 Final Flow 45 Extra Copies _____
 Final Shut-In 45 Sub Total 0
 Total 1816.80
 MP/DST Disc't _____
 Sub Total 1816.80

Approved By [Signature] Our Representative Will M...

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

CUSTOMER *OK operating* WELL NO. *#3* LEASE *Dink* JOB TYPE *Cement long string* TICKET NO. *2724714*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk EA-2w / 1/2" fibre 5 1/2" x 15.5" casing 106 jts 4429' shoe jt 32.65' Centralizer 1, 2, 3, 71 Baskets 69, 70 post collar #70
	1045							on loc TRK114
<i>MAY 17</i>	0000							start 5 1/2" x 15.5" casing in well
	0235							Drop ball - circulate
	0345	4 3/4	12				200	Pump 500 gal mud flush
		4 3/4	20				200	Pump 20 bbl KCL liquid
	0352		7					Plug RH - 305 sks
	0400	4 3/4	35				200	mix EA-2 cement 145 sks @ 15.3 gpg
	0412							Drop latch down plug wash out pump & line
	0417	6 3/4					200	Displace plug
		6 3/4	98				850	
	0430	6 3/4	105				1330	Land plug
	0432							Release pressure to truck - dried up
	0440							wash truck RACK up
	0525							job complete thanks Flint, Blaine & DAVE