



KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1125888

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: _____

1125888

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 ☐ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☐ No

Cores Taken ☐ Yes ☐ No

Electric Log Run ☐ Yes ☐ No

Electric Log Submitted Electronically ☐ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample
Name Top Datum

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

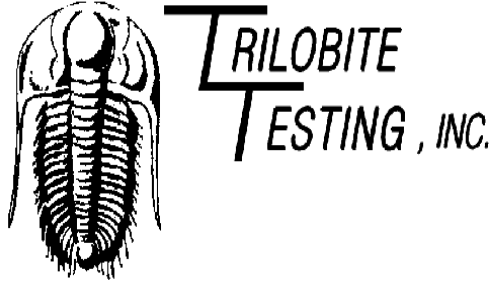
ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate				
____ Protect Casing				
____ Plug Back TD				
____ Plug Off Zone				

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 (If vented, Submit ACO-18.)	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. (Submit ACO-5) ☐ Commingled (Submit ACO-4) ☐ Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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DRILL STEM TEST REPORT

Prepared For: **DK Operating inc.**

24583 NW 208 Rd
Jetmore KS 67854-5311

ATTN: Jason Alm

Terry # 1-31

31-20s-22w Ness,KS

Start Date: 2012.12.17 @ 21:40:05

End Date: 2012.12.18 @ 05:22:39

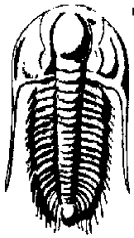
Job Ticket #: 50774 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.12.19 @ 13:55:40



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

DK Operating inc.

24583 NW 208 Rd
Jetmore KS 67854-5311

ATTN: Jason Alm

31-20s-22w Ness,KS

Terry # 1-31

Job Ticket: 50774

DST#: 1

Test Start: 2012.12.17 @ 21:40:05

GENERAL INFORMATION:

Formation: **FT. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:55:50

Time Test Ended: 05:22:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 39

Interval: 4295.00 ft (KB) To 4355.00 ft (KB) (TVD)

Total Depth: 4355.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2227.00 ft (KB)

2217.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8372 Outside

Press@RunDepth: 206.15 psig @ 4302.00 ft (KB)

Start Date: 2012.12.17

End Date:

2012.12.18

Start Time: 21:40:05

End Time:

05:22:40

Capacity: 8000.00 psig

Last Calib.: 2012.12.18

Time On Btm: 2012.12.17 @ 23:55:00

Time Off Btm: 2012.12.18 @ 02:55:59

TEST COMMENT: IF:(45min) 2" blow in 4 min. 6" blow in 11 min. 8" in 16 min.BOB in 31 min.

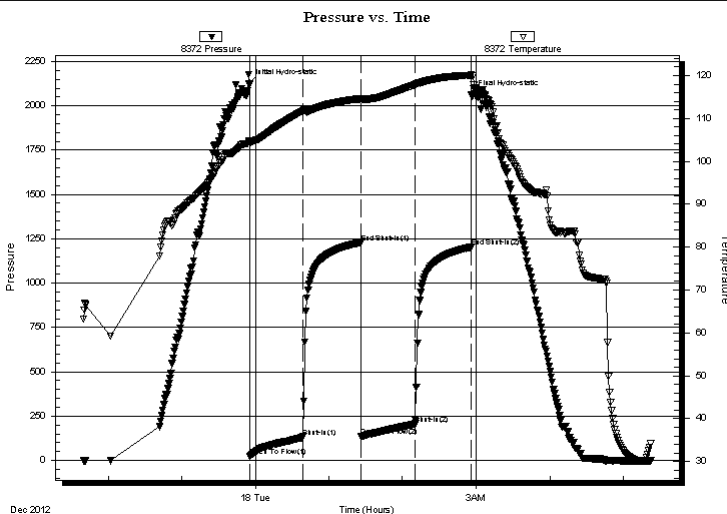
ISl:(45min) No Return

FF:(45min) 2" blow in 4 min. 6" in 15 min. 8" in 21 min.BOB in 39 min

FSl:(45min) No Return

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2123.06	104.79	Initial Hydro-static
1	24.91	104.23	Open To Flow (1)
44	129.10	111.76	Shut-In(1)
91	1228.96	114.59	End Shut-In(1)
92	134.97	114.16	Open To Flow (2)
136	206.15	117.88	Shut-In(2)
181	1202.47	120.05	End Shut-In(2)
181	2063.91	120.27	Final Hydro-static

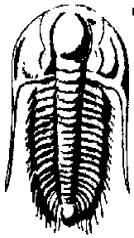


Recovery

Length (ft)	Description	Volume (bbl)
420.00	MW	4.81
1.00	Oil	0.01

Gas Rates

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

DRILL STEM TEST REPORT

DK Operating inc.

24583 NW 208 Rd
Jetmore KS 67854-5311

ATTN: Jason Alm

31-20s-22w Ness,KS

Terry # 1-31

Job Ticket: 50774

DST#: 1

Test Start: 2012.12.17 @ 21:40:05

GENERAL INFORMATION:

Formation: **FT. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:55:50

Time Test Ended: 05:22:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 39

Interval: 4295.00 ft (KB) To 4355.00 ft (KB) (TVD)

Total Depth: 4355.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2227.00 ft (KB)

2217.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8844 Inside

Press@RunDepth: psig @ 4302.00 ft (KB)

Start Date: 2012.12.17

End Date:

2012.12.18

Start Time: 21:40:15

End Time:

05:22:30

Capacity: 8000.00 psig

Last Calib.: 2012.12.18

Time On Btm:

Time Off Btm:

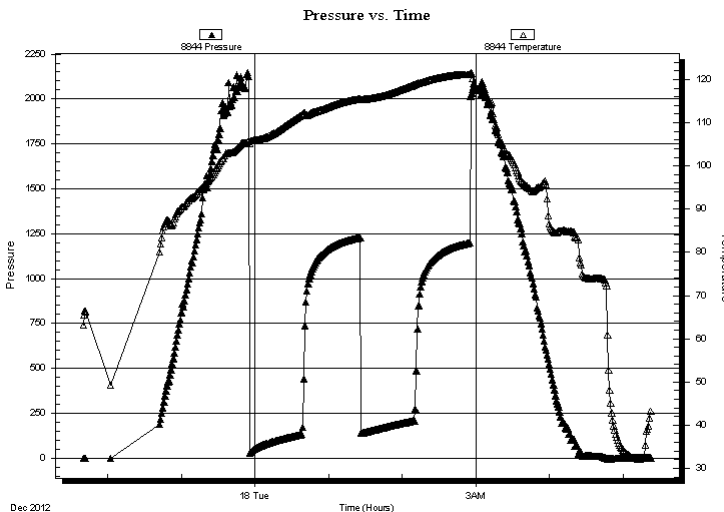
TEST COMMENT: IF:(45min) 2" blow in 4 min. 6" blow in 11 min. 8" in 16 min.BOB in 31 min.

ISl:(45min) No Return

FF:(45min) 2" blow in 4 min. 6" in 15 min. 8" in 21 min.BOB in 39 min

FSl:(45min) No Return

PRESSURE SUMMARY



Time
(Min.)

Pressure
(psig)

Temp
(deg F)

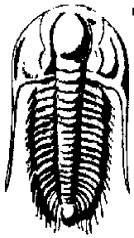
Annotation

Recovery

Length (ft)	Description	Volume (bbl)
420.00	MW	4.81
1.00	Oil	0.01

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

DK Operating inc.

31-20s-22w Ness,KS

24583 NW 208 Rd
Jetmore KS 67854-5311

Terry # 1-31

Job Ticket: 50774

DST#: 1

ATTN: Jason Alm

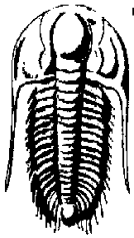
Test Start: 2012.12.17 @ 21:40:05

Tool Information

Drill Pipe:	Length: 4167.00 ft	Diameter: 3.80 inches	Volume: 58.45 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 119.15 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	90000.00 lb
		Total Volume:	59.04 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.15 ft			String Weight: Initial	82000.00 lb
Depth to Top Packer:	4295.00 ft			Final	84000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	88.00 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			4268.00	
Shut In Tool	5.00			4273.00	
Hydraulic tool	5.00			4278.00	
Jars	5.00			4283.00	
Safety Joint	3.00			4286.00	
Packer	5.00			4291.00	28.00 Bottom Of Top Packer
Packer	4.00			4295.00	
Stubb	1.00			4296.00	
Perforations	5.00			4301.00	
Change Over Sub	1.00			4302.00	
Recorder	0.00	8844	Inside	4302.00	
Recorder	0.00	8372	Outside	4302.00	
Drill Pipe	32.00			4334.00	
Change Over Sub	1.00			4335.00	
Perforations	17.00			4352.00	
Bullnose	3.00			4355.00	60.00 Bottom Packers & Anchor
Total Tool Length:	88.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

DK Operating inc.

31-20s-22w Ness,KS

24583 NW 208 Rd
Jetmore KS 67854-5311

Terry # 1-31

Job Ticket: 50774

DST#: 1

ATTN: Jason Alm

Test Start: 2012.12.17 @ 21:40:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 59.00 sec/qt

Water Loss: 10.75 in³

Resistivity: ohm.m

Salinity: 4800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity: 54000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
420.00	MW	4.806
1.00	Oil	0.014

Total Length: 421.00 ft

Total Volume: 4.820 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

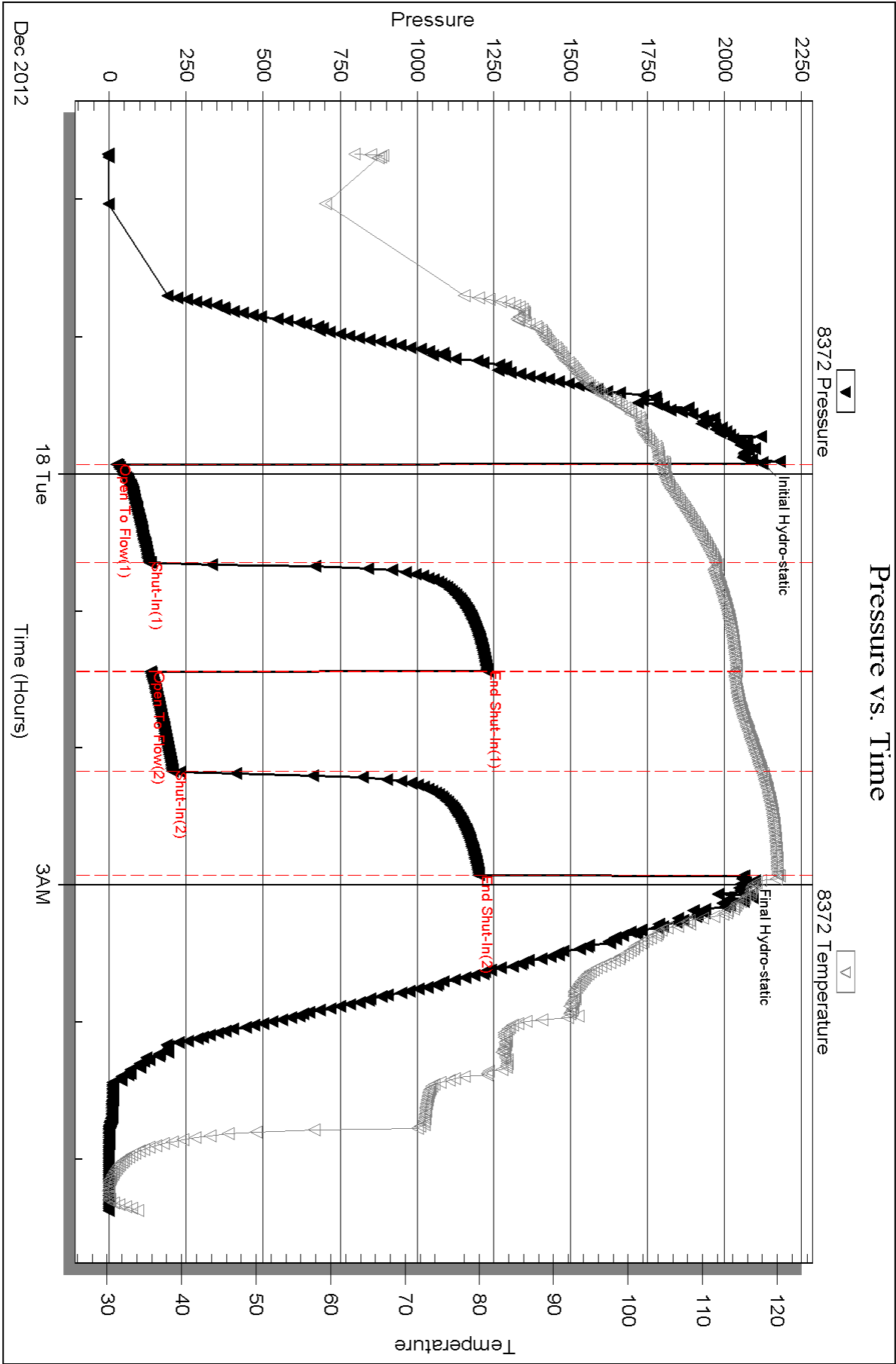
Recovery Comments:

Serial #: 8372

Outside DK Operating inc.

Terry #1-31

DST Test Number: 1



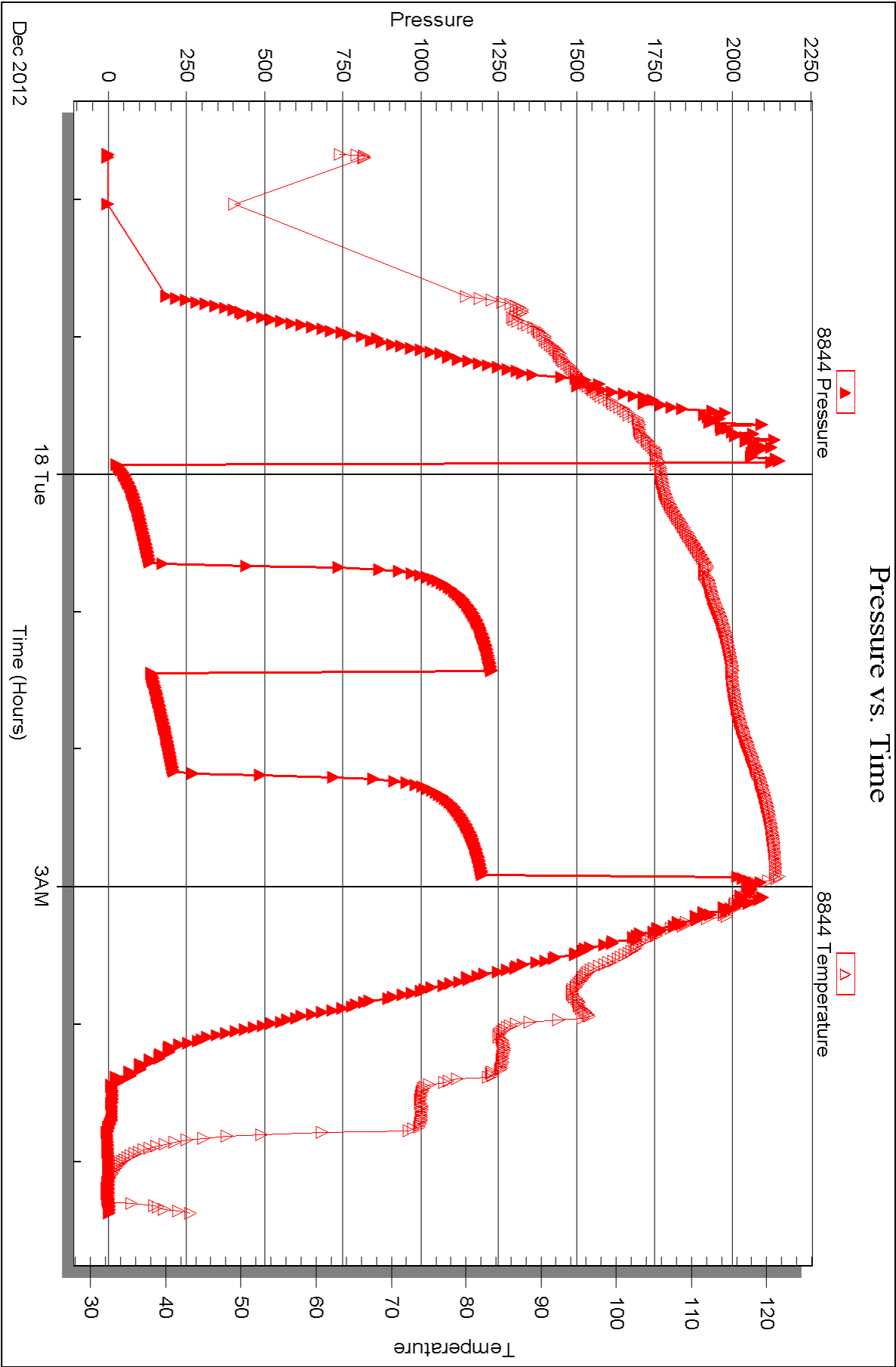
Serial #: 8844

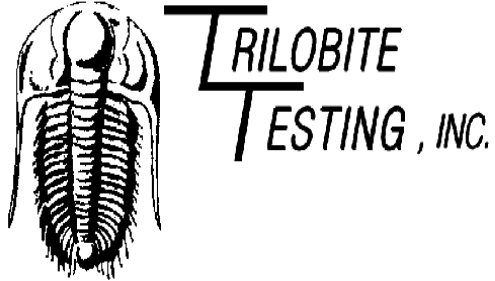
Inside

DK Operating inc.

Terry #1-31

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **DK Operating inc.**

24583 NW 208 Rd
Jetmore KS 67854-5311

ATTN: Jason Alm

Terry # 1-31

31-20s-22w Ness,KS

Start Date: 2012.12.18 @ 15:38:05

End Date: 2012.12.18 @ 23:15:29

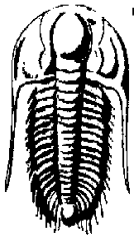
Job Ticket #: 50775 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.12.19 @ 13:54:57



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

DK Operating inc.

24583 NW 208 Rd
Jetmore KS 67854-5311

ATTN: Jason Alm

31-20s-22w Ness,KS

Terry # 1-31

Job Ticket: 50775

DST#: 2

Test Start: 2012.12.18 @ 15:38:05

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:53:00

Time Test Ended: 23:15:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 4355.00 ft (KB) To 4423.00 ft (KB) (TVD)

Total Depth: 4423.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2227.00 ft (KB)

2217.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8372 Outside

Press@RunDepth: 108.60 psig @ 4362.00 ft (KB)

Start Date: 2012.12.18

End Date:

2012.12.18

Start Time: 15:38:05

End Time:

23:15:29

Capacity: 8000.00 psig

Last Calib.: 2012.12.18

Time On Btm: 2012.12.18 @ 17:52:50

Time Off Btm: 2012.12.18 @ 20:56:50

TEST COMMENT: IF:(45min) 1" blow in 4 min. 2" in 9 min. 3" in 18 min. 4" in 25 min Built to 5"

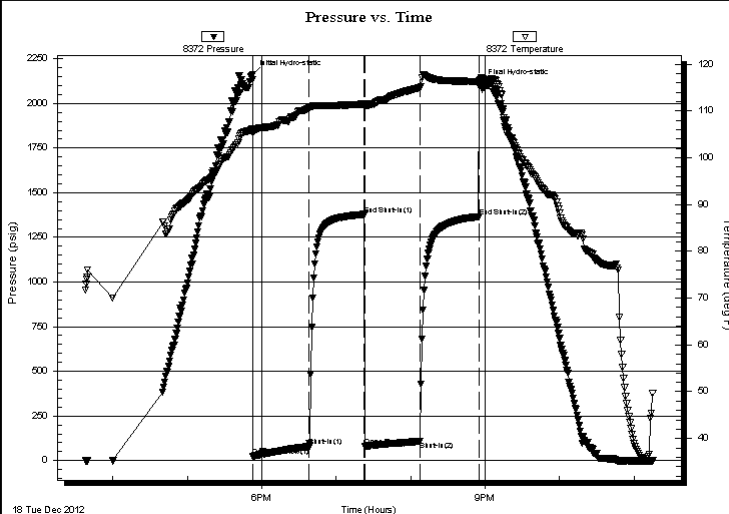
ISl:(45min) No Return

FF:(45min) 1" blow in 7 min. 2" in 17 min. 3" in 26 min. 4" in 34 min. Built to 5"

FSl:(45min) No Return

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2162.55	106.20	Initial Hydro-static
1	22.40	105.39	Open To Flow (1)
46	77.67	110.59	Shut-In(1)
90	1378.73	111.46	End Shut-In(1)
91	79.83	111.02	Open To Flow (2)
135	108.60	115.00	Shut-In(2)
182	1365.84	116.33	End Shut-In(2)
184	2108.33	117.03	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
200.00	MW m=30% w=70%	1.72

Gas Rates

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



DK Operating inc.

ATTN: Jason Alm

Terry # 1-31

DST#: 2

Test Start: 2012.12.18 @ 15:38:05

KB to GR/CF: 10.00 ft

Time Off Btm:

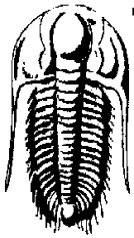
FSI:(45min) No Return



Recovery

Gas Rates

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

DK Operating inc.

31-20s-22w Ness,KS

24583 NW 208 Rd
Jetmore KS 67854-5311

Terry # 1-31

Job Ticket: 50775

DST#: 2

ATTN: Jason Alm

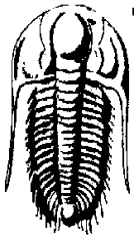
Test Start: 2012.12.18 @ 15:38:05

Tool Information

Drill Pipe:	Length: 4230.00 ft	Diameter: 3.80 inches	Volume: 59.34 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 119.15 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 74000.00 lb
		Total Volume: 59.93 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	22.15 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4355.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	96.00 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			4328.00	
Shut In Tool	5.00			4333.00	
Hydraulic tool	5.00			4338.00	
Jars	5.00			4343.00	
Safety Joint	3.00			4346.00	
Packer	5.00			4351.00	28.00 Bottom Of Top Packer
Packer	4.00			4355.00	
Stubb	1.00			4356.00	
Perforations	5.00			4361.00	
Change Over Sub	1.00			4362.00	
Recorder	0.00	8844	Inside	4362.00	
Recorder	0.00	8372	Outside	4362.00	
Drill Pipe	32.00			4394.00	
Change Over Sub	1.00			4395.00	
Perforations	25.00			4420.00	
Bullnose	3.00			4423.00	68.00 Bottom Packers & Anchor
Total Tool Length:	96.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

DK Operating inc.

31-20s-22w Ness,KS

24583 NW 208 Rd
Jetmore KS 67854-5311

Terry # 1-31

Job Ticket: 50775

DST#: 2

ATTN: Jason Alm

Test Start: 2012.12.18 @ 15:38:05

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:

19000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.73 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	MW m=30% w=70%	1.720

Total Length: 200.00 ft

Total Volume: 1.720 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

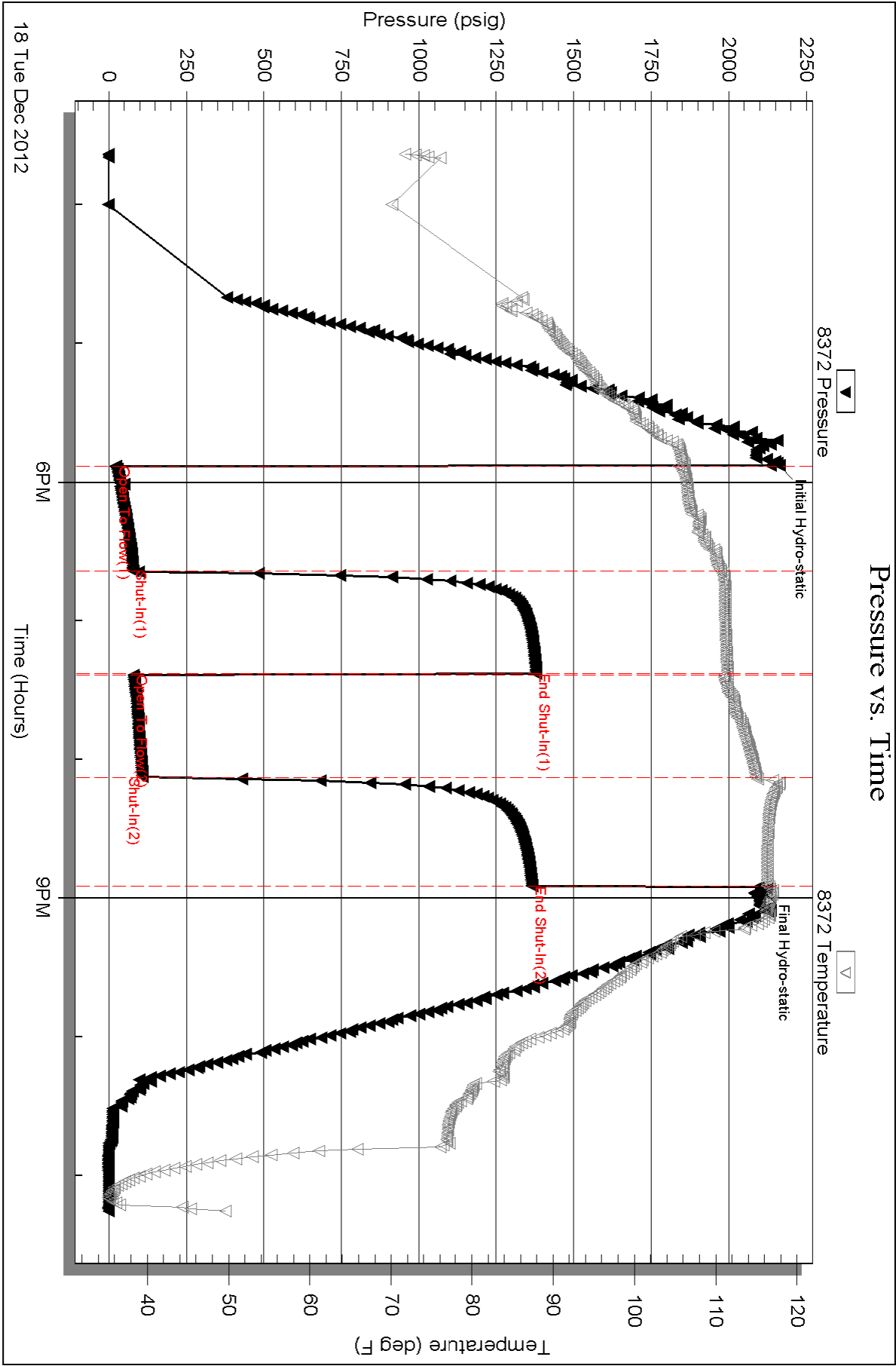
Recovery Comments:

Serial #: 8372

Outside DK Operating inc.

Terry #1-31

DST Test Number: 2



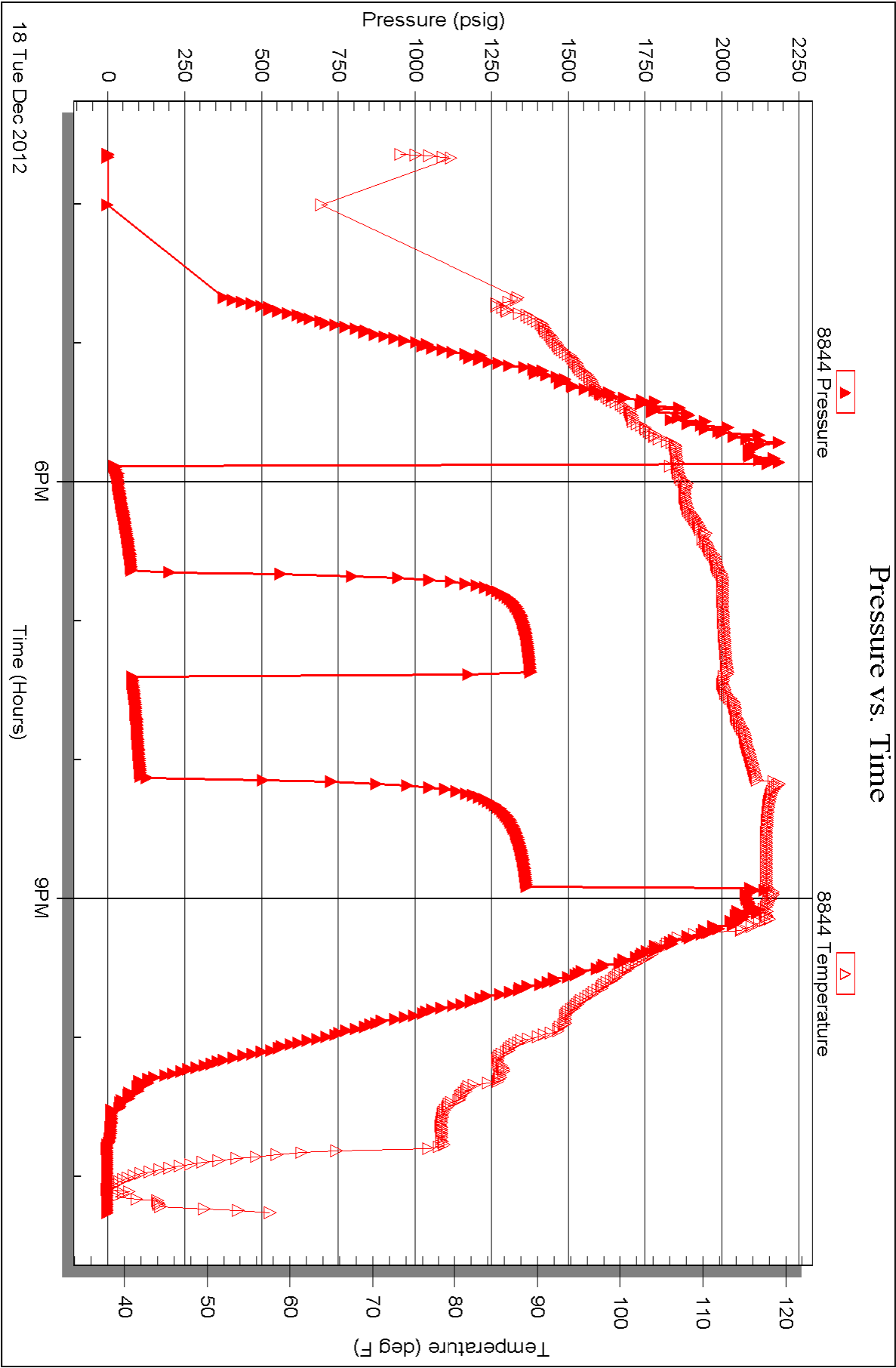
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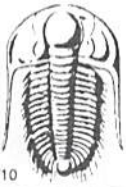
Inside

DK Operating inc.

Terry #1-31

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50774

Well Name & No. JERRY #1-31 Test No. 1 Date 12-17-12
 Company DK OPERATING INC Elevation 2227 KB 2217 GL
 Address 24583 NW 208RD JETMORE KS. 67854-5311
 Co. Rep / Geo. JASON NIM Rig PICKRELL #1
 Location: Sec. 31 Twp. 20S Rge. 22W Co. NESS State KS

Interval Tested 4295-4355 Zone Tested FT Scott
 Anchor Length 60' Drill Pipe Run 4167 Mud Wt. 92
 Top Packer Depth 4290 Drill Collars Run 119.15 Vis 59
 Bottom Packer Depth 4295 Wt. Pipe Run 0 WL 10.8
 Total Depth 4355 Chlorides 4800 ppm System LCM 1

Blow Description IF: 2" in 4min 6" in 11min 8" in 16min BOB 31min
ISI: NO RETURN
FF: 2" in 4min, ~~9" in 14min~~ 6" in 15min 8" in 21 BOB in 39min
FSI: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Oil</u>				
<u>420</u>	<u>MW</u>				

Rec Total 421' BHT _____ Gravity _____ API RW 360 @ 27 °F Chlorides 54000 ppm

(A) Initial Hydrostatic 2123
 (B) First Initial Flow 24
 (C) First Final Flow 129
 (D) Initial Shut-In 1228
 (E) Second Initial Flow 134
 (F) Second Final Flow 206
 (G) Final Shut-In 1202
 (H) Final Hydrostatic 2063

☒ Test 1250
☒ Jars 250
☒ Safety Joint 75
☐ Circ Sub
☐ Hourly Standby
☒ Mileage 116RT 179.80
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 1754.80

T-On Location 18:28
 T-Started 21:40
 T-Open 23:55
 T-Pulled 02:55
 T-Out 05:23
 Comments _____

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

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1754.80
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
 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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50775

Well Name & No. TEERY #1-31 Test No. 2 Date 12-18-12
 Company DK OPERATING INC. Elevation 2227 KB 2217 GL
 Address 24583 NW 208th Jetmore Rs. 67854-5311
 Co. Rep / Geo. JASON Alm Rig Pickrell #1
 Location: Sec. 31 Twp. 20S Rge. 22W Co. NESS State Ks

Interval Tested 4355-4423 Zone Tested MISS.
 Anchor Length 68' Drill Pipe Run 4230 Mud Wt. 9.3
 Top Packer Depth 4350 Drill Collars Run 119.15 Vis 50
 Bottom Packer Depth 4355 Wt. Pipe Run 0 WL 13.6
 Total Depth 4423 Chlorides 6300 ppm System LCM TOL

Blow Description IF: 1" blow in 4 min. 2" in 9 min. 3" in 18 min 4" in 25 min Built to 5"
ISI: NO RETURN
FF: 1" blow in 7 min. 2" in 17 min 3" in 26 min 4" in 34 min. Built to 5"
FSL: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>200</u>	<u>MW</u>			<u>70</u>	<u>30</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 200 BHT 116° Gravity _____ API RW .86 @ 28 °F Chlorides 19000 ppm

(A) Initial Hydrostatic 2162
 (B) First Initial Flow 22
 (C) First Final Flow 77
 (D) Initial Shut-In 1378
 (E) Second Initial Flow 79
 (F) Second Final Flow 108
 (G) Final Shut-In 1365
 (H) Final Hydrostatic 2108

☒ Test 1250
☒ Jars 250
☒ Safety Joint 75
☐ Circ Sub
☐ Hourly Standby
☒ Mileage 136RT 179.80
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 1754.80

T-On Location 14:58
 T-Started 15:38
 T-Open 17:53
 T-Pulled 20:53
 T-Out 23:15
 Comments _____
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1754.80
 MP/DST Disc't _____

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

Formation Tops

Formation

Anhydrite
Base
Heebner
Lansing
Stark
BKc
Marmaton
Pawnee
Fort Scott
Cherokee
Mississippian
RTD

DK Operating, Inc.

Terry #1-31

Sec. 31 T20s R22w

800' FNL & 990' FEL

1482', +745

1516', +711

3744', -1517

3796', -1569

4050', -1823

4126', -1899

4150', -1923

4245', -2018

4316', -2089

4336', -2109

4405', -2178

4423', -2196

Sample Zone Descriptions

Fort Scott

(4316', -2089): Covered in DST #1

Ls – Fine crystalline with fair to good inter-crystalline porosity, fair spotted oil stain in porosity, slight show of free oil, light odor, good yellow fluorescents.

Miss. Osage

(4405', -2178): Covered in DST #2

Δ – White to Tan mottled chert, mostly fresh, few triptolic pieces with scattered vuggy porosity, light tarry oil stain in porosity, no show of free oil, very light odor, no fluorescents.

ALLIED OIL & GAS SERVICES, LLC 059181

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Great Bend, KS

DATE <u>12-12-12</u>	SEC. <u>31</u>	TWP. <u>20S</u>	RANGE <u>22W</u>	CALLED OUT	ON LOCATION <u>12:00 AM</u>	JOB START	JOB FINISH
LEASE <u>Terry</u>	WELL # <u>1-31</u>	LOCATION <u>Schmoe - 14 miles N, 6 miles E</u>			COUNTY <u>Atchison</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>		<u>on 20th, 1 mile S on Riverside Rd</u>			<u>1.01</u>	<u>6.3</u>	

CONTRACTOR P. J. Smith Drilling
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 237
CASING SIZE 8 5/8 DEPTH 236.77
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 500 MINIMUM
MEAS. LINE SHOE JOINT 20'
CEMENT LEFT IN CSG. 1.272 BBLS
PERFS.
DISPLACEMENT 13.5 BBLS

EQUIPMENT

PUMP TRUCK CEMENTER Patrick Helgeson 1
366 HELPER Tim Dixon 1
BULK TRUCK
544-198 DRIVER Scott Marchan 2
BULK TRUCK
DRIVER

REMARKS:

20 BBLS of cement back to
Surface.

CHARGE TO: DK Operating
STREET
CITY STATE ZIP

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Ron Moon

SIGNATURE Ron Moon

OWNER DK Operating

CEMENT
AMOUNT ORDERED 165 cu class A,
3% CL, 2% Gd

COMMON	<u>165</u>	@	<u>17.90</u>	<u>2.953.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>23.40</u>	<u>70.20</u>
CHLORIDE	<u>6</u>	@	<u>64.00</u>	<u>384.00</u>
ASC		@		

HANDLING	<u>178.24</u>	@	<u>2.48</u>	<u>442.03</u>
MILEAGE	<u>8.13 x 21 x</u>	@	<u>2.60</u>	<u>443.89</u>

TOTAL 4.293.62

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	<u>1512.35</u>
EXTRA FOOTAGE	@
MILEAGE	<u>Hum 21 @ 7.70 161.70</u>
MANIFOLD	@
	<u>Hum 21 @ 4.40 92.40</u>

TOTAL 1766.35

PLUG & FLOAT EQUIPMENT

	@
	@
	@
	@
	@

TOTAL

SALES TAX (If Any) 214.68

TOTAL CHARGES 6.059.27

DISCOUNT 25% 1.514.27 IF PAID IN 30 DAYS

4.544.98

DATE	12-19-12	PAGE NO.	1
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[illegible]

TICKET CONTINUATION

22998

22998

PO Box 466.

Ness City, KS 67560

Off: 785-798-2300

Services, Inc.													CUSTOMER		WELL		DATE		PAGE	
													DK Operating		#1-31 Terry		12-19-12		2 OF 2	
PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT	DF	TIME	DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT								
330		2				SMD Cement	250				16.50	4125.00								
276		2				Fluoride	75				2.00	150.00								
												</								



Services, Inc.

CHARGE TO:

ADDRESS

D.R. Operating

TICKET
Nº 22998

CITY, STATE, ZIP CODE

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Hays, KS.	#1-31	Terry	Ness	KS		12-19-12	SWM
2. Ness City, KS.	TICKET TYPE ☒ SERVICE ☐ SALES	CONTRACTOR Rickrell Drilling #1	RIG NAME/NO.	SHIPPED VIA CT	DELIVERED TO Location	ORDER NO.	
3.	WELL TYPE SWD	WELL CATEGORY Development	JOB PURPOSE Longstring	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT	DF			UM			
575		1			MILEAGE #111	40	mi		6.00	240.00
578		1			Pump Change (Longstring)	1	ea		1500.00	1500.00
221		1			KCL	2	wt		25.00	50.00
281		1			Mud Flush	500	gal		1.25	625.00
290		1			D-Air	3	ea		35.00	105.00
402		1			Centralizers	7	ea	5 1/2"	70.00	490.00
403		1			Baskets	2	ea		250.00	500.00
406		1			Basket Shoe	1	ea		1400.00	1400.00
406		1			R.D. Plug & Bottle	1	ea		250.00	250.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY**, and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X

DATE SIGNED

12-19-12

TIME SIGNED

12:40

☐ A.M.
☐ P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.

P.O. BOX 466

NESS CITY, KS 67560

785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE?

☐ YES ☐ NO

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 1

PAGE 2

SUBTOTAL

10424.00

7855

TAX 484.79

603.70

TOTAL

10,908.79

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

The customer hereby acknowledges receipt of the materials and services listed on this ticket.

OPERATOR

APPROVAL

Thank You!