



**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: \_\_\_\_\_



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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Castle Resources, Inc.
Well Name	Harting 1-26
Doc ID	1152851

All Electric Logs Run

Borehole Compensated
Sonic
Microresistivity
Dual Induction
Compensated Density Neutron

# SCHIPPER'S OIL FIELD SERVICES, L.L.C.

1083

REMIT TO 18048 170RD  
 RUSSELL, KS 67665

SERVICE POINT:  
Russell, KS - Hovie, KS

DATE <u>8-18-12</u>	SEC. <u>26</u>	TWP. <u>3</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>1:45am</u>	JOB FINISH <u>2:15am</u>
LEASE <u>Harting</u>			WELL # <u>1-26</u>	LOCATION <u>Norton, KS 55 SW</u>		COUNTY <u>Norton</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (CIRCLE ONE)			<u>Sinto</u>				

CONTRACTOR White Knight  
 TYPE OF JOB Surface  
 HOLE SIZE 8 5/8 T.D. \_\_\_\_\_  
 CASING SIZE 8 5/8 DEPTH \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_ DEPTH 228  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. 20 ft  
 PERFS \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_

EQUIPMENT

PUMP TRUCK # P1 CEMENTER Heath  
 HELPER Heath  
 BULK TRUCK # B1 DRIVER Jay  
 BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

OWNER \_\_\_\_\_  
 CEMENT AMOUNT ORDERED 165 com 3% CC 2% gel  
 COMMON @ \_\_\_\_\_  
 POZMIX @ \_\_\_\_\_  
 GEL @ \_\_\_\_\_  
 CHLORIDE @ \_\_\_\_\_  
 ASC @ \_\_\_\_\_  
 HANDLING @ \_\_\_\_\_  
 MILEAGE @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

REMARKS:  
Ran 5 hrs of 8 5/8 casing and landing it  
est circulation with mud pump  
Hook up and mixed flask and disp 6bl  
of H2O - Shut in @ ps.  
Cement did circulate

CHARGE TO: Castle Resource's  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB \_\_\_\_\_  
 PUMP TRUCK CHARGE \_\_\_\_\_  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 MILEAGE @ \_\_\_\_\_  
 MANIFOLD @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

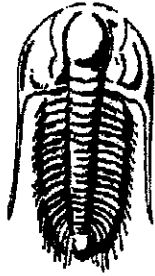
Schippers Oil Field Services, L.L.C.,  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the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

PLUG & FLOAT EQUIPMENT

8 5/8 Swedge @ \_\_\_\_\_  
3-2" Dipper @ \_\_\_\_\_  
1-2" RT Flow @ \_\_\_\_\_  
1-2" Ball valve @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

PRINTED NAME Terry Austin  
 SIGNATURE Terry Austin

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Castle Resources, Inc.**

Box 87  
Schoenchen KS 67667

ATTN: Jerry Green

**Harting #1-26**

**26-3s-24w Norton,KS**

Start Date: 2013.08.23 @ 00:00:00

End Date:

Job Ticket #: 54759                      DST #: 1

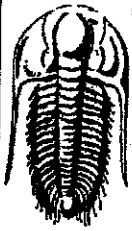
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.26 @ 11:08:07

Castle Resources, Inc.    26-3s-24w Norton,KS    Harting #1-26    DST # 1    Reagan Sand    2013.08.23



**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

Castle Resources, Inc.

26-3s-24w Norton,KS

Box 87  
Schoenchen KS 67667

Harting #1-26

Job Ticket: 54759

DST#: 1

ATTN: Jerry Green

Test Start: 2013.08.23 @ 00:00:00

#### GENERAL INFORMATION:

Formation: **Reagan Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3695.00 ft (KB) To 3788.00 ft (KB) (TVD)

Total Depth: 3788.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2413.00 ft (KB)

2408.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: psig @ 3701.00 ft (KB)

Start Date: 2013.08.22

End Date:

2013.08.23

Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Start Time: 23:55:05

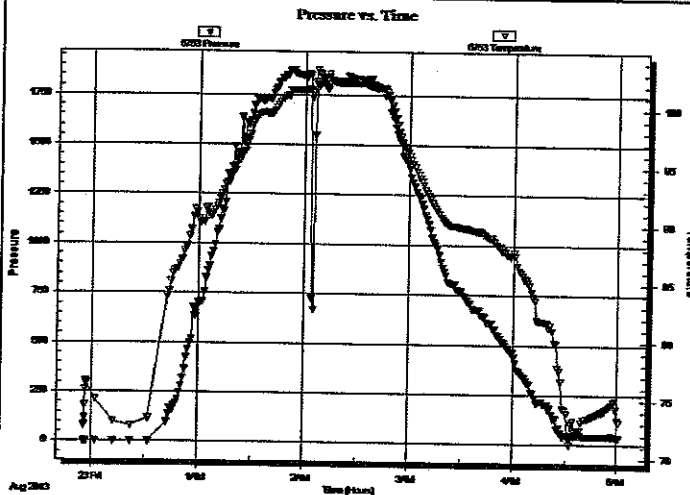
End Time:

05:00:59

Time On Btm:

Time Off Btm:

TEST COMMENT: Packer Failure



#### PRESSURE SUMMARY

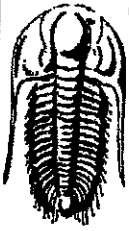
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

#### Recovery

Length (ft)	Description	Volume (bbl)

#### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Castle Resources, Inc.

26-3s-24w Norton, KS

Box 87  
Schoenchen KS 67667

Harting #1-26

Job Ticket: 54759

DST#: 1

ATTN: Jerry Green

Test Start: 2013.08.23 @ 00:00:00

### GENERAL INFORMATION:

Formation: **Reagan Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3695.00 ft (KB) To 3788.00 ft (KB) (TVD)

Total Depth: 3788.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2413.00 ft (KB)

2408.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319 Outside

Press@RunDepth: psig @ 3701.00 ft (KB)

Start Date: 2013.08.22

End Date:

2013.08.23

Capacity:

8000.00 psig

Start Time: 23:55:05

End Time:

05:00:59

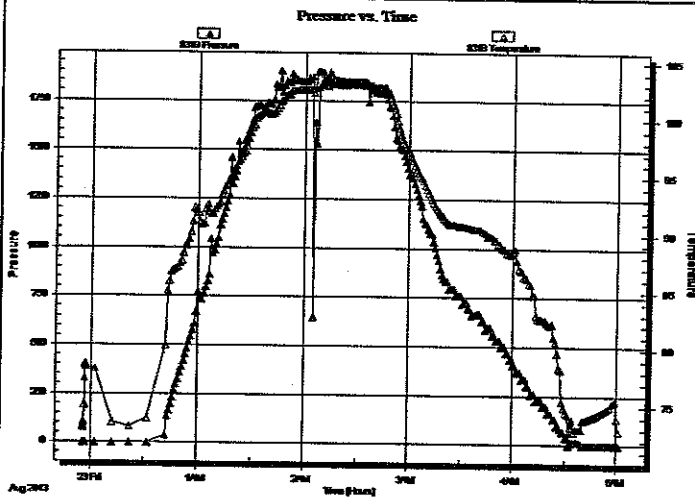
Last Calib.:

2013.08.23

Time On Btm:

Time Off Btm:

TEST COMMENT: Packer Failure



### PRESSURE SUMMARY

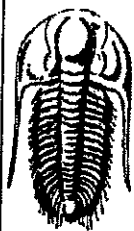
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bb)

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Castle Resources , Inc.

26-3s-24w Norton,KS

Box 87  
Schoenchen KS 67667

Harting #1-26

Job Ticket: 54759

DST#: 1

ATTN: Jerry Green

Test Start: 2013.08.23 @ 00:00:00

## Tool Information

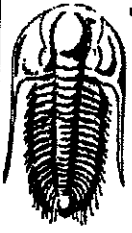
Drill Pipe:	Length: 3707.00 ft	Diameter: 3.80 inches	Volume: 52.00 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: ft	Diameter: 2.25 inches	Volume: - bbl	Weight to Pull Loose: lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial lb
Depth to Top Packer:	3695.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	93.00 ft			
Tool Length:	114.00 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			3675.00	
Shut In Tool	5.00			3680.00	
Hydraulic tool	5.00			3685.00	
Packer	5.00			3690.00	21.00 Bottom Of Top Packer
Packer	5.00			3695.00	
Packer - Shale	0.00			3695.00	
Stubb	1.00			3696.00	
Perforations	5.00			3701.00	
Recorder	0.00	6753	Inside	3701.00	
Recorder	0.00	8319	Outside	3701.00	
Change Over Sub	1.00			3702.00	
Drill Pipe	63.00			3765.00	
Change Over Sub	1.00			3766.00	
Perforations	19.00			3785.00	
Bullnose	3.00			3788.00	93.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>114.00</b>				





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources, Inc.

26-3s-24w Norton, KS

Box 87  
Schoenchen KS 67667

Harting #1-26

Job Ticket: 54759

DST#: 1

ATTN: Jerry Green

Test Start: 2013.08.23 @ 00:00:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 41.00 sec/qt	Cushion Volume:		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:		
Salinity: 500.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length:                      ft      Total Volume:                      bbl

Num Fluid Samples: 0                      Num Gas Bombs: 0                      Serial #:

Laboratory Name:                      Laboratory Location:

Recovery Comments:

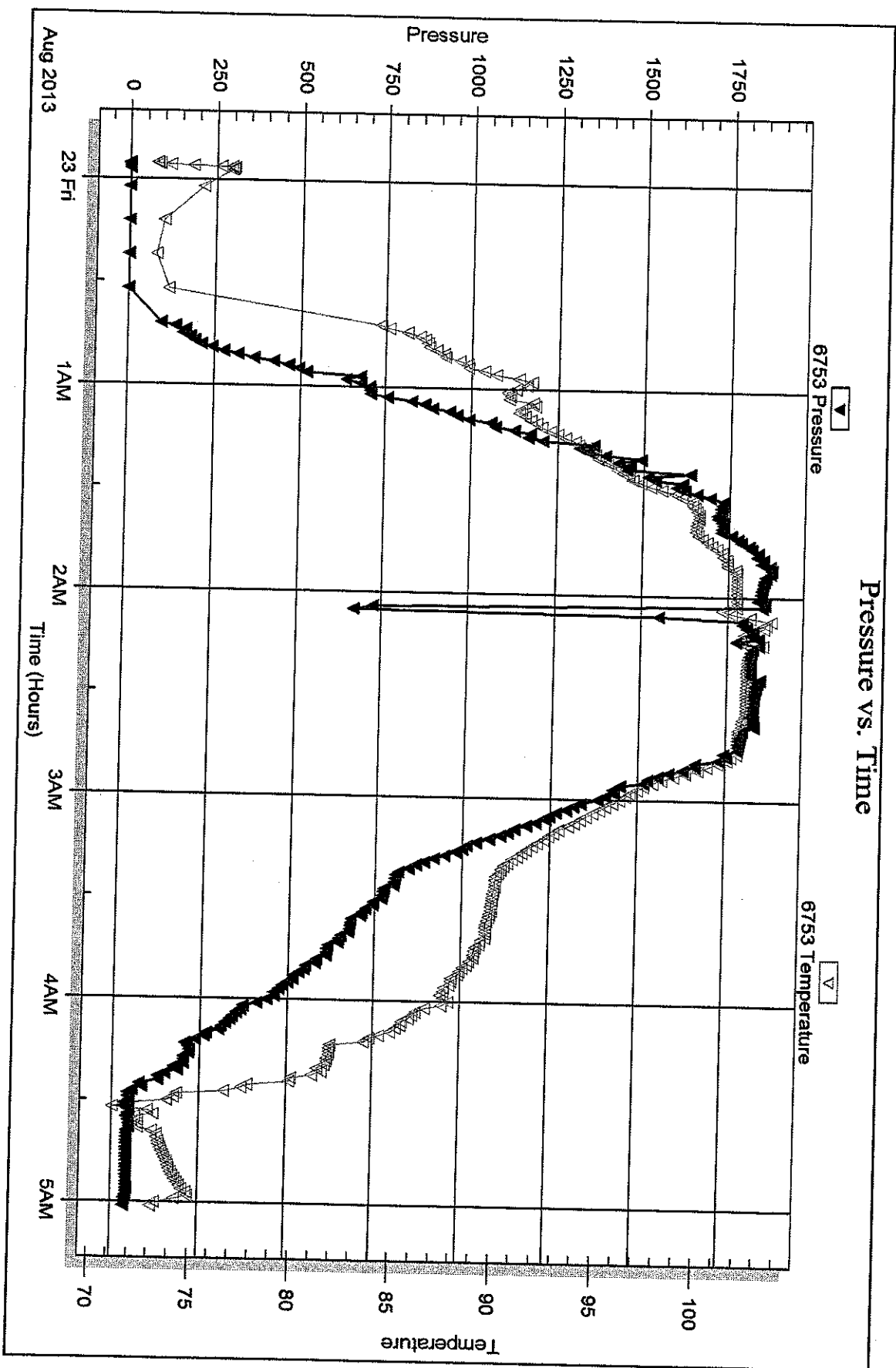
Serial #: 6753

Inside

Castle Resources, Inc.

Harting #1-26

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 54759

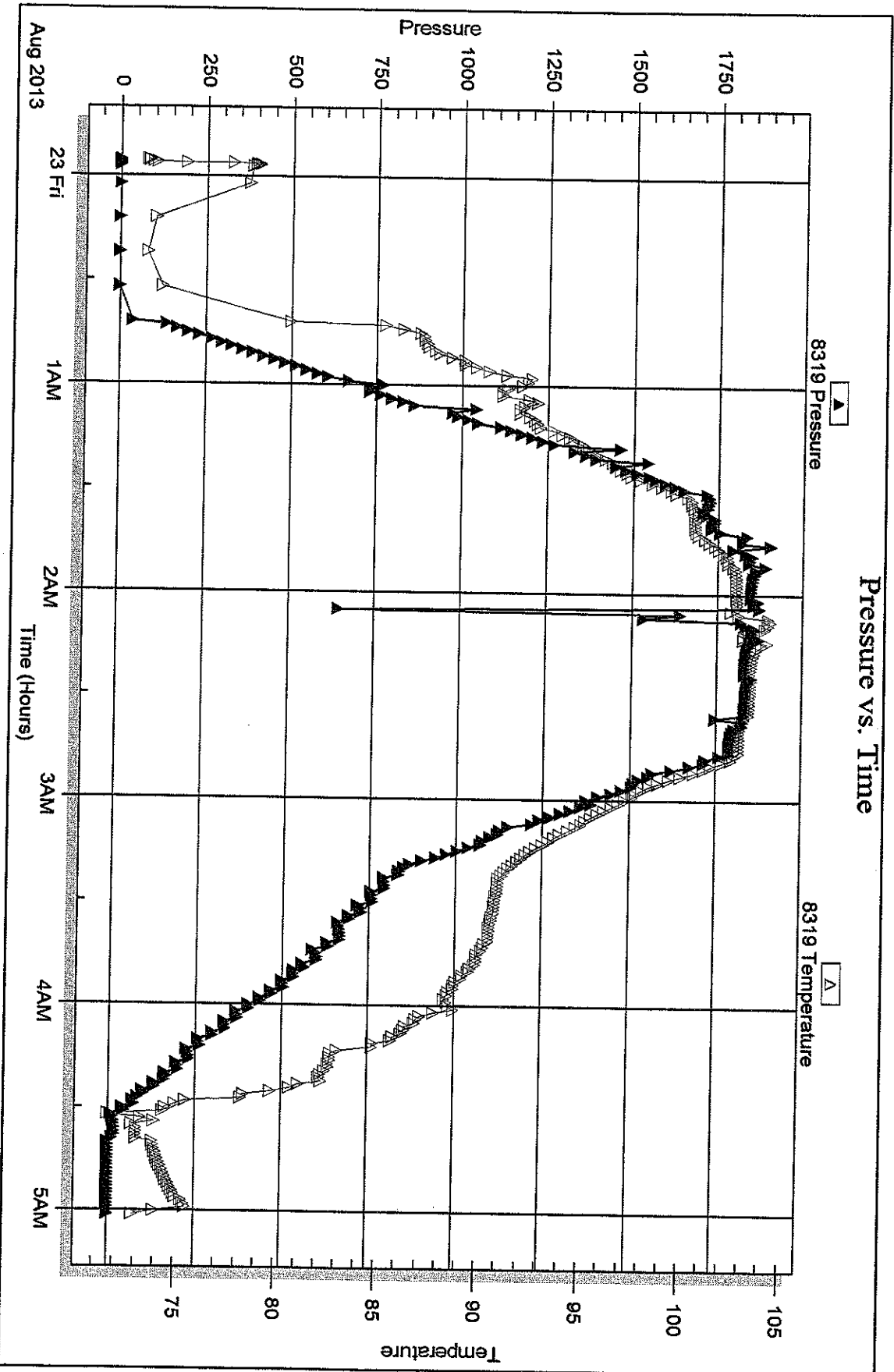
Printed: 2013.08.26 @ 11:08:08

Serial #: 8319

Outside Castle Resources, Inc.

Harling #1-26

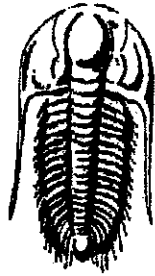
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54759

Printed: 2013.08.26 @ 11:08:09



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Castle Resources , Inc.**

Box 87  
Schoenchen KS 67667

ATTN: Jerry Green

**Harting #1-26**

**26-3s-24w Norton,KS**

Start Date: 2013.08.23 @ 05:38:00

End Date: 2013.08.23 @ 13:07:00

Job Ticket #: 54761                      DST #: 2

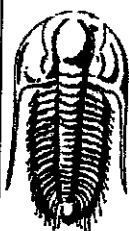
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.26 @ 11:06:18

Castle Resources , Inc.    26-3s-24w Norton,KS    Harting #1-26    DST # 2    Reagan Sand    2013.08.23



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Castle Resources, Inc.

26-3s-24w Norton, KS

Box 87  
Schoenchen KS 67667

Harting #1-26

Job Ticket: 54761

DST#: 2

ATTN: Jerry Green

Test Start: 2013.08.23 @ 05:38:00

## GENERAL INFORMATION:

Formation: **Reagan Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:34:30

Time Test Ended: 13:07:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3650.00 ft (KB) To 3788.00 ft (KB) (TVD)

Total Depth: 3788.00 ft (KB) (TVD)

Reference Elevations: 2413.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Fair

2408.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 133.73 psig @ 3656.00 ft (KB)

Start Date: 2013.08.23

End Date:

2013.08.23

Capacity: 8000.00 psig

Start Time: 05:38:05

End Time:

13:06:59

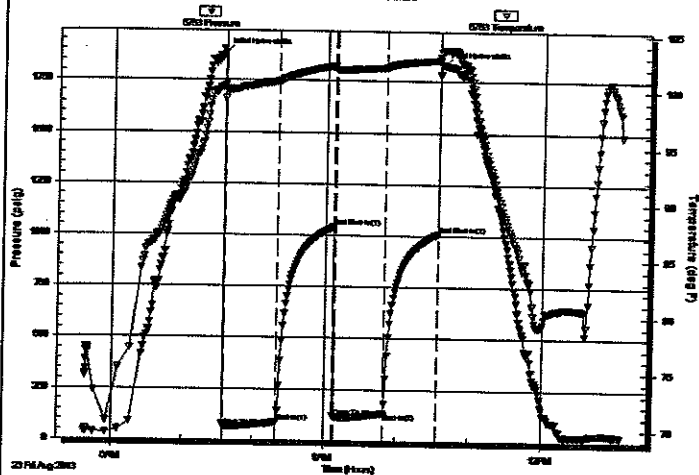
Last Calib.: 2013.08.23

Time On Btm: 2013.08.23 @ 07:33:30

Time Off Btm: 2013.08.23 @ 10:36:00

TEST COMMENT: IF-BOB in 43 min  
IS- No blow  
FF-7 1/2" blow  
FS- No blow

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.16	100.40	Initial Hydro-static
1	63.74	100.00	Open To Flow (1)
47	87.74	100.78	Shut-In(1)
93	1040.32	102.14	End Shut-In(1)
95	115.42	101.83	Open To Flow (2)
136	133.73	102.02	Shut-In(2)
180	1009.24	102.70	End Shut-In(2)
183	1827.65	103.54	Final Hydro-static

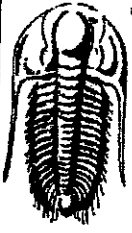
## Recovery

Length (ft)	Description	Volume (bbl)
210.00	SMCW 90W 10%M	2.95

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Castle Resources, Inc.  
Box 87  
Schoenchen KS 67667  
ATTN: Jerry Green

26-3s-24w Norton, KS  
Harting #1-26  
Job Ticket: 54761      DST#: 2  
Test Start: 2013.08.23 @ 05:38:00

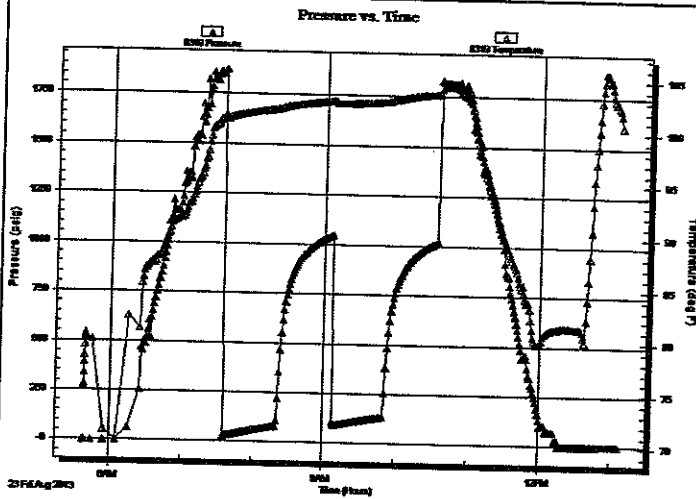
### GENERAL INFORMATION:

Formation: Reagan Sand  
Deviated: No Whipstock:      ft (KB)  
Time Tool Opened: 07:34:30  
Time Test Ended: 13:07:00  
Interval: 3650.00 ft (KB) To 3788.00 ft (KB) (TVD)  
Total Depth: 3788.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)  
Tester: Brett Dickinson  
Unit No: 59  
Reference Elevations: 2413.00 ft (KB)  
2408.00 ft (CF)  
KB to GR/CF: 5.00 ft

Serial #: 8319      Outside  
Press@RunDepth:      psig @      3656.00 ft (KB)  
Start Date: 2013.08.23      End Date: 2013.08.23      Capacity: 8000.00 psig  
Start Time: 05:38:05      End Time: 13:07:29      Last Calib.: 2013.08.23  
Time On Btm:  
Time Off Btm:

TEST COMMENT: IF-BOB in 43 min  
ISI-No blow  
FF-7 1/2" blow  
FSI-No blow



### PRESSURE SUMMARY

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

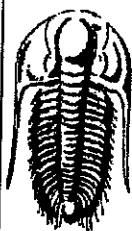
### Recovery

Length (ft)	Description	Volume (bbl)
210.00	SMCW 90W 10%M	2.95

### Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Castle Resources, Inc.

**26-3s-24w Norton, KS**

Box 87  
Schoenchen KS 67667

**Harting #1-26**

Job Ticket: 54761

**DST#: 2**

ATTN: Jerry Green

Test Start: 2013.08.23 @ 05:38:00

## Tool Information

Drill Pipe:	Length: 3644.00 ft	Diameter: 3.80 inches	Volume: 51.12 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 51.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3650.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	138.00 ft			
Tool Length:	159.00 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			3630.00	
Shut In Tool	5.00			3635.00	
Hydraulic tool	5.00			3640.00	
Packer	5.00			3645.00	21.00 Bottom Of Top Packer
Packer	5.00			3650.00	
Packer - Shale	0.00			3650.00	
Stubb	1.00			3651.00	
Perforations	5.00			3656.00	
Recorder	0.00	6753	Inside	3656.00	
Recorder	0.00	8319	Outside	3656.00	
Change Over Sub	1.00			3657.00	
Drill Pipe	125.00			3782.00	
Change Over Sub	1.00			3783.00	
Perforations	2.00			3785.00	
Bullnose	3.00			3788.00	138.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>159.00</b>				



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## DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources, Inc.

26-3s-24w Norton, KS

Box 87  
Schoenchen KS 67667

Harting #1-26

Job Ticket: 54761

DST#: 2

ATTN: Jerry Green

Test Start: 2013.08.23 @ 05:38:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	32000 ppm
Viscosity: 41.00 sec/qt	Cushion Volume:		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:		
Salinity: 500.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	SMCW 90W 10%M	2.946

Total Length: 210.00 ft      Total Volume: 2.946 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



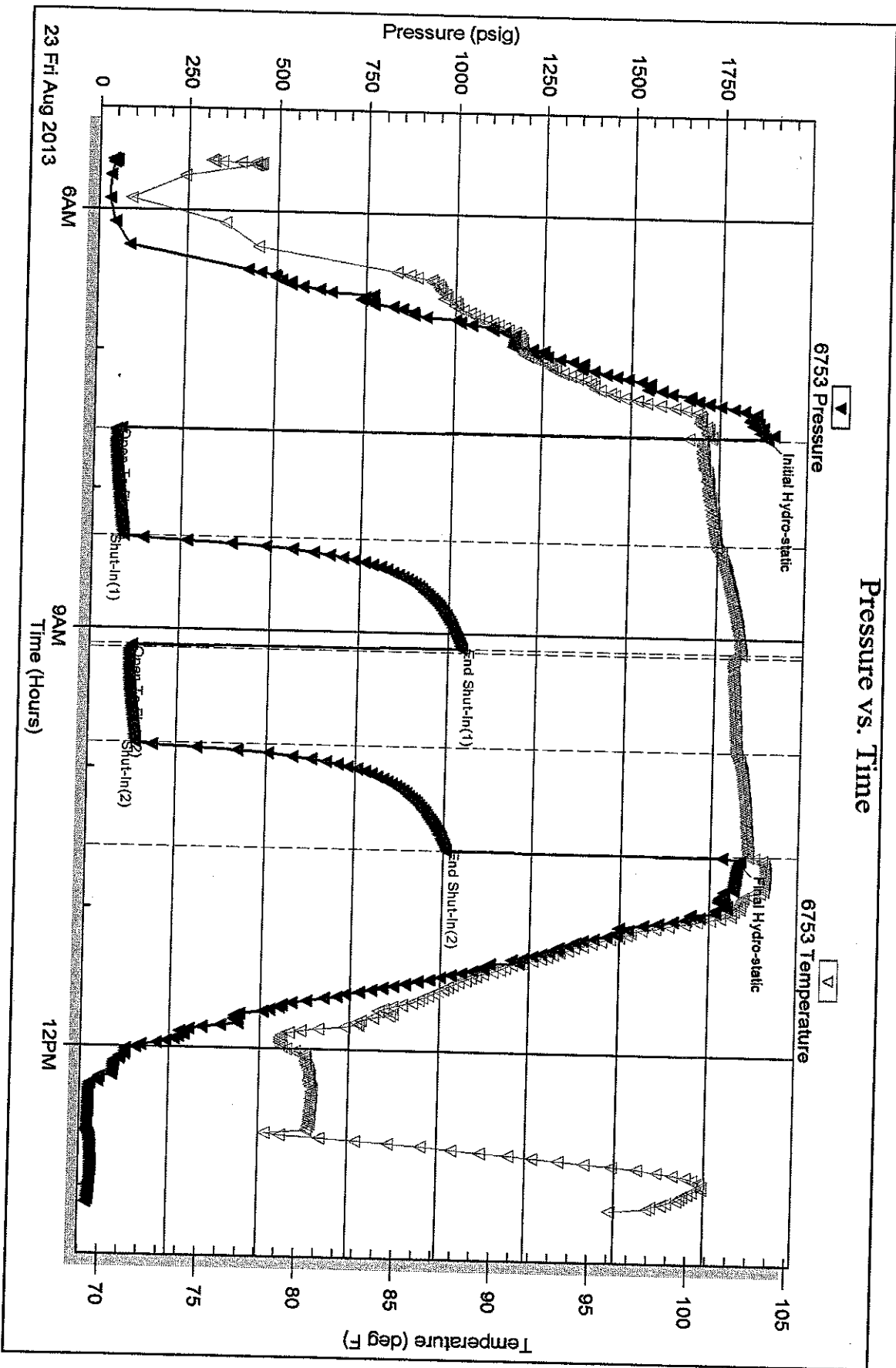
Serial #: 6753

Inside

Castle Resources, Inc.

Harting #1-26

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 54761

Printed: 2013.08.26 @ 11:06:20

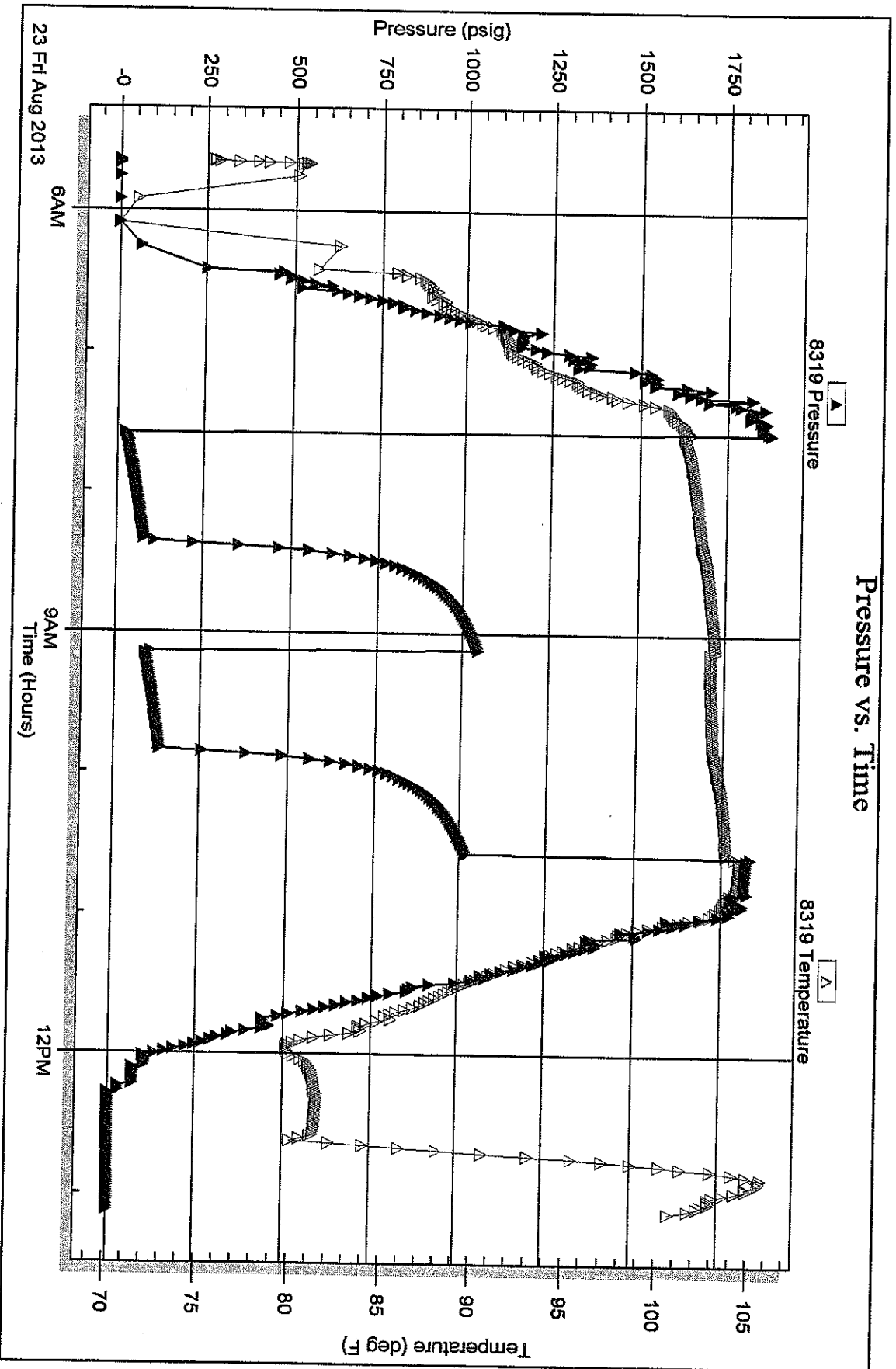
Serial #: 8319

Outside

Castle Resources, Inc.

Harting #1-26

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 54761

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54761

Well Name & No. Harting # 1-26 Test No. 2 Date 8/23/13  
 Company Castle Resources, Inc Elevation 2413 KB 2408 GL  
 Address Box 87 Schoenchen KS 67667  
 Co. Rep / Geo. Jerry Green Rig White Knight  
 Location: Sec. 26 Twp. 3 Rge. 24 Co. Norton State KS

Interval Tested 3650 - 3788 Zone Tested Reagan Sd  
 Anchor Length 138 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.3  
 Top Packer Depth 3645 Drill Collars Run - Vis 41  
 Bottom Packer Depth 3650 Wt. Pipe Run - WL 8.8  
 Total Depth 3788 Chlorides 500 ppm System LCM 27  
 Blow Description IF - BOB in 43 min  
ISE - No blow  
FF - 7 1/2 in below  
FSL - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>210</u>	<u>SMCW</u>		<u>90</u>	<u>10</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 210 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW 19 @ 80 °F Chlorides 32,000 ppm  
 (A) Initial Hydrostatic 1,883  Test 1150 T-On Location \_\_\_\_\_  
 (B) First Initial Flow 64  Jars T-Started 5:38  
 (C) First Final Flow 88  Safety Joint T-Open 7:33  
 (D) Initial Shut-In 1,040  Circ Sub T-Pulled 10:33  
 (E) Second Initial Flow 115  Hourly Standby T-Out 13:10  
 (F) Second Final Flow 134  Mileage \_\_\_\_\_  
 (G) Final Shut-In 1,009  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,829  Straddle \_\_\_\_\_

Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1400  
 Sub Total 1400 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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