

GLOBAL CEMENTING, L.L.C.

1449

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: Russell KS

DATE <u>7-17-14</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>10:45 AM</u>
LEASE # <u>PK cementell</u>	WELL #. <u>2</u>		LOCATION			COUNTY <u>Phillips</u>	STATE <u>KS</u>
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR White Knight Drilling Rig #1

TYPE OF JOB Plug

HOLE SIZE 3 1/2 T.D. 3450

CASING SIZE 4 1/2 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS

DISPLACEMENT

EQUIPMENT

PUMP TRUCK # 11 CEMENTER Coody

HELPER Brod

BULK TRUCK # B1 DRIVER Mark

BULK TRUCK # DRIVER

REMARKS:

1 plug 50 sks 1390

2 plug 100 sks 850

3 plug 50 sks 270

Center 400 100 sks Rt 300 sks wipe plug

CHARGE TO: Castle Resources

STREET _____

CITY _____ STATE _____ ZIP _____

Global Cementing, 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.

PRINTED NAME _____

SIGNATURE [Signature]

OWNER _____

CEMENT AMOUNT ORDERED 240 sks 60/100 40 gel 1/4 lb Fluorocel

COMMON @ _____

POZMIX @ _____

GEL @ _____

CHLORIDE @ _____

ASC @ _____

HANDLING @ _____

MILEAGE @ _____

TOTAL _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE @ _____

MILEAGE 3642 @ _____

MANIFOLD @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

GLOBAL CEMENTING, L.L.C.

1446

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: Russell

DATE <u>9-12-16</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>8:45 AM</u>
LEASE <u>Pharmacia</u>	WELL # <u>2</u>	LOCATION			COUNTY <u>PHILLIPS CO</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR White Knight Drilling Rig #1

TYPE OF JOB Supp

HOLE SIZE <u>12 1/4</u>	T.D. <u>2174</u>
CASING SIZE <u>8 5/8</u>	DEPTH
TUBING SIZE <u>7 1/2</u>	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT

CEMENT LEFT IN CSG.

PERFS

DISPLACEMENT

OWNER

CEMENT AMOUNT ORDERED 150 SKS 3% CC 2% GEL

EQUIPMENT

PUMP TRUCK # <u>P1</u>	CEMENTER <u>Cody Ross</u>
	HELPER <u>Road</u>
BULK TRUCK # <u>B4</u>	DRIVER <u>Payton</u>
BULK TRUCK #	DRIVER

COMMON	@	
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	@	
MILEAGE		
		TOTAL

REMARKS:

Ran 5 joints of 8 5/8 casing + landing joint

Est Circulation Hooked up pumped 125 SKS

Circulated cement and displaced 125 bbls

off H2C shut in at 200 PSI

CHARGE TO: Castle Resources

STREET _____

CITY _____ STATE _____ ZIP _____

Global Cementing, 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.

PRINTED NAME _____

SIGNATURE Terry Austin

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		
EXTRA FOOTAGE	@	
MILEAGE <u>36 x 2</u>	@	
MANIFOLD	@	
	@	
	@	
		TOTAL

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
		TOTAL

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS



DRILL STEM TEST REPORT

Prepared For: **Castle Resources, Inc**

PO Box 87
Schoenchen KS 67667

ATTN: Gerry Green

Pfannenstiel #2

11-5s-18w Phillips KS

Start Date: 2014.09.15 @ 06:07:05

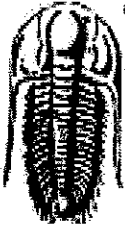
End Date: 2014.09.15 @ 10:01:30

Job Ticket #: 59351 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.17 @ 11:11:44

Castle Resources, Inc
11-5s-18w Phillips KS
Pfannenstiel #2
DST # 1
Toronto - LKC "A"
2014.09.15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources, Inc

11-5s-18w Phillips KS

PO Box 87
Schoenchen KS 67667

Pfannenstiel #2

Job Ticket: 59351

DST#: 1

ATTN: Gerry Green

Test Start: 2014.09.15 @ 06:07:05

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:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

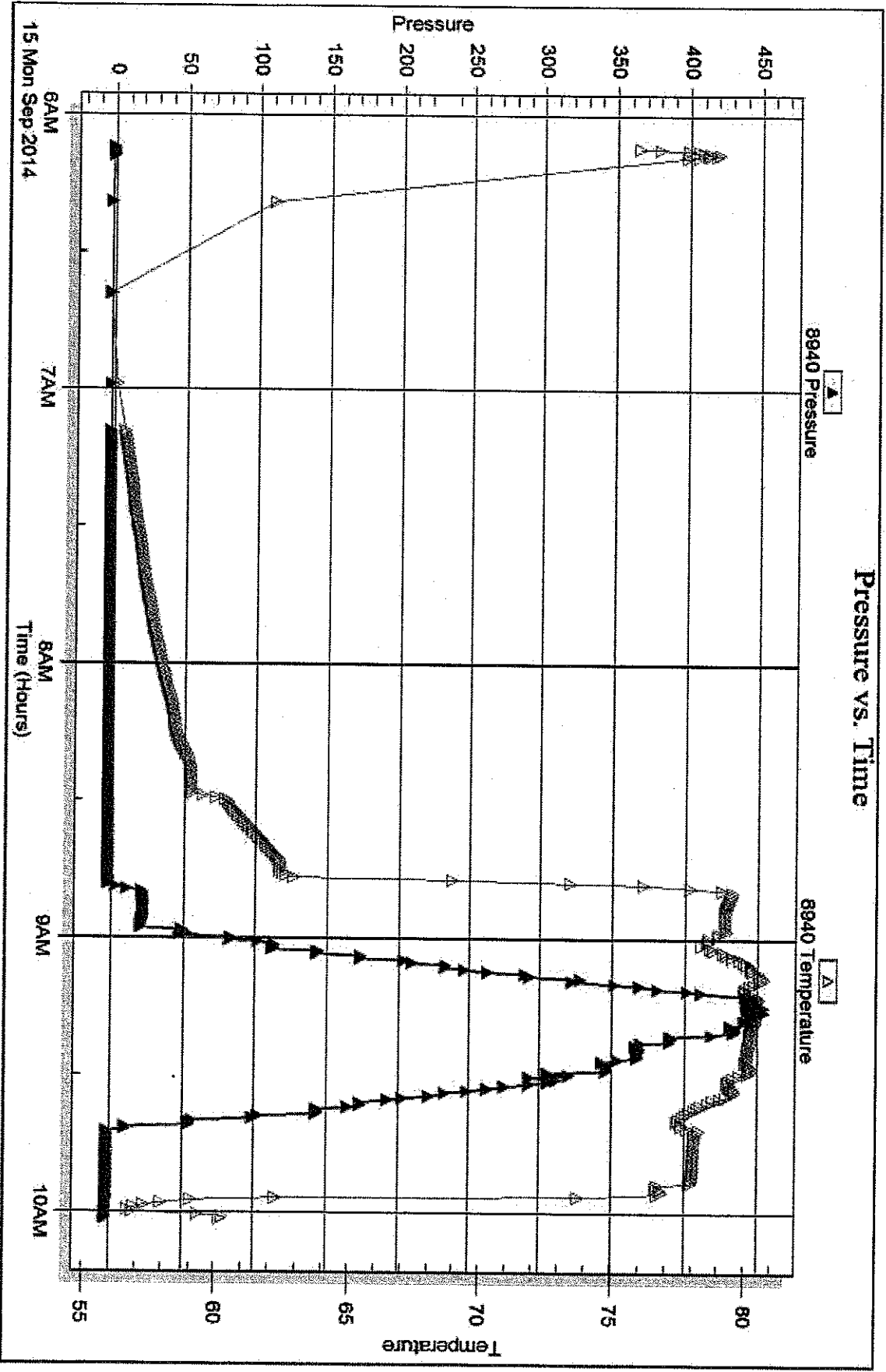
Recovery Comments:

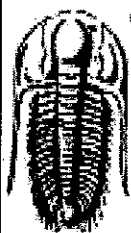
Serial #: 8940

Outside Castle Resources, Inc

Flammsteel #2

DST Test Number: 1





**TRIOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Castle Resources, Inc
 PO Box 87
 Schoenchen KS 67667
 ATTN: Gerry Green

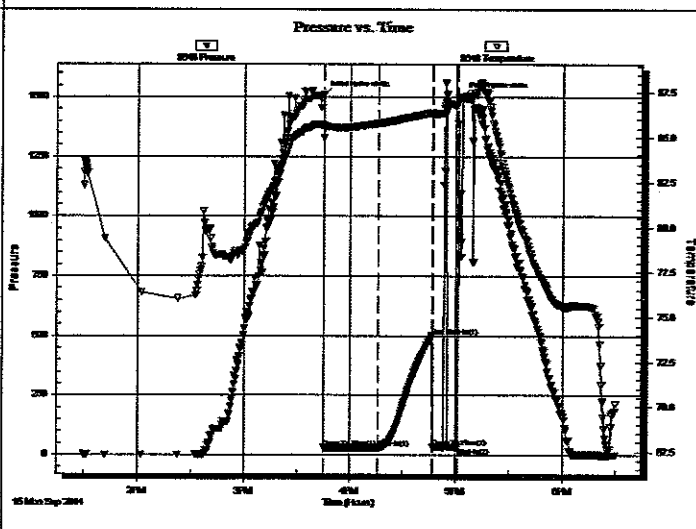
11-5s-18w Phillips KS
Pfannenstiel #2
 Job Ticket: 59352 **DST#: 2**
 Test Start: 2014.09.15 @ 13:30:00

GENERAL INFORMATION:

Formation: **Toronto - LKC A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:45:15
 Time Test Ended: 18:30:00
 Interval: **3090.00 ft (KB) To 3150.00 ft (KB) (TVD)**
 Total Depth: 3150.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 73
 Reference Elevations: 1948.00 ft (KB)
 1943.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8648 **Inside**
 Press@RunDepth: 30.32 psig @ 3127.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.15 End Date: 2014.09.15 Last Calib.: 2014.09.15
 Start Time: 13:30:05 End Time: 18:29:59 Time On Btm: 2014.09.15 @ 15:45:00
 Time Off Btm: 2014.09.15 @ 17:03:45

TEST COMMENT: 30 - IF- 1/4" blow, died @ 14 minutes
 30 - IS- No return
 15 - FF- No blow for 5 minutes, flushed tool, surged and died. pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1509.32	85.66	Initial Hydro-static
1	30.47	85.00	Open To Flow (1)
31	30.32	85.78	Shut-In(1)
62	500.08	86.39	End Shut-In(1)
63	31.57	86.22	Open To Flow (2)
76	32.87	86.82	Shut-In(2)
79	1501.92	87.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - Oil spots, 100%M	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castle Resources, Inc
PO Box 87
Schoenchen KS 67667
ATTN: Gerry Green

11-5s-18w Phillips KS
Pfannenstiel #2
Job Ticket: 59352 **DST#: 2**
Test Start: 2014.09.15 @ 13:30:00

Tool Information

Drill Pipe:	Length: 3102.00 ft	Diameter: 3.80 inches	Volume: 43.51 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: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 43.51 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3090.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3070.00	
Shut In Tool	5.00			3075.00	
Hydraulic tool	5.00			3080.00	
Packer	5.00			3085.00	21.00 Bottom Of Top Packer
Packer	5.00			3090.00	
Stubb	1.00			3091.00	
Perforations	3.00			3094.00	
Change Over Sub	1.00			3095.00	
Drill Pipe	31.00			3126.00	
Change Over Sub	1.00			3127.00	
Recorder	0.00	8648	Inside	3127.00	
Recorder	0.00	8940	Outside	3127.00	
Perforations	20.00			3147.00	
Bullnose	3.00			3150.00	60.00 Bottom Packers & Anchor

Total Tool Length: 81.00

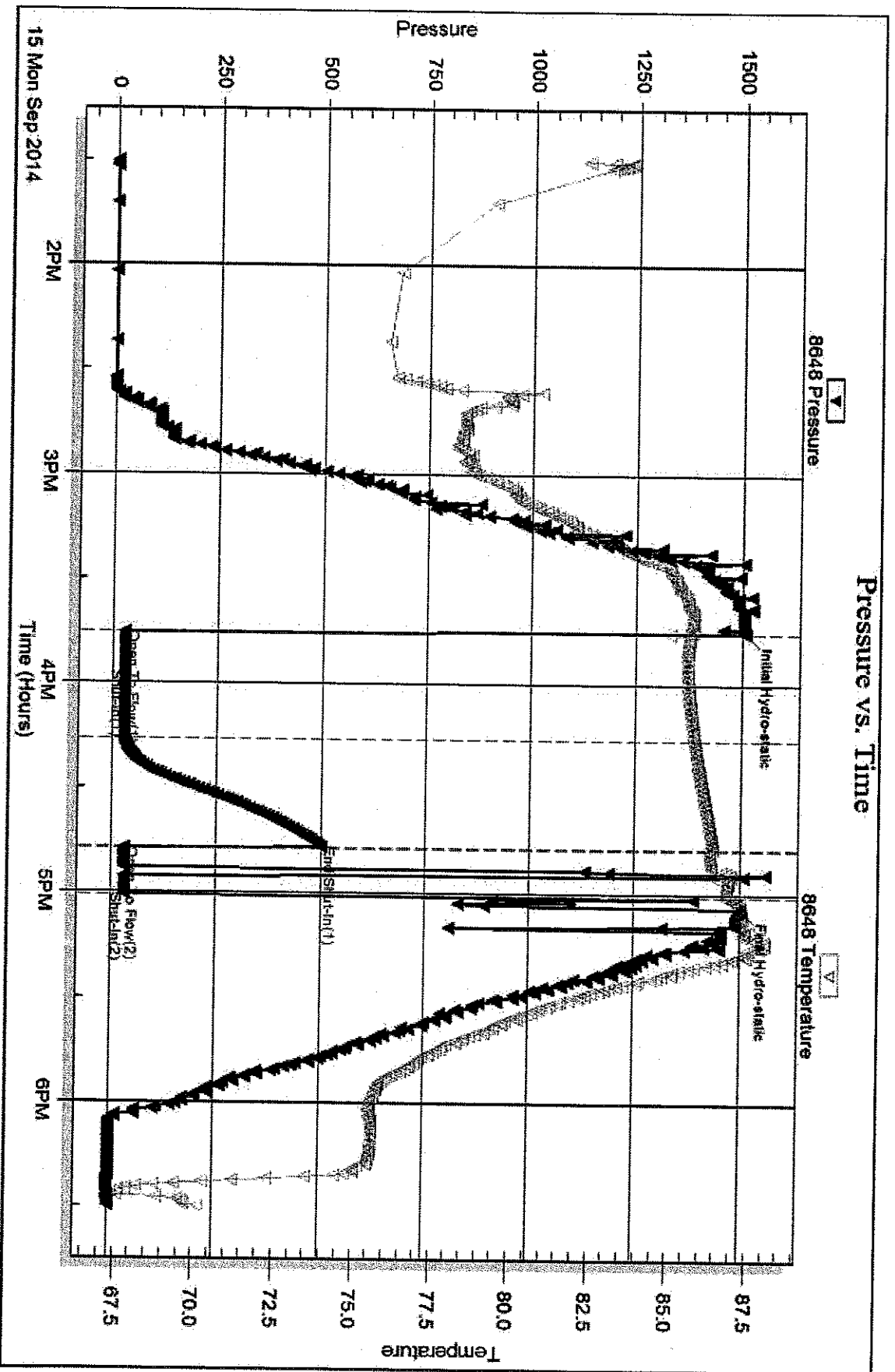
Serial #: 8648

Inside

Castle Resources, Inc

Flammensiel #2

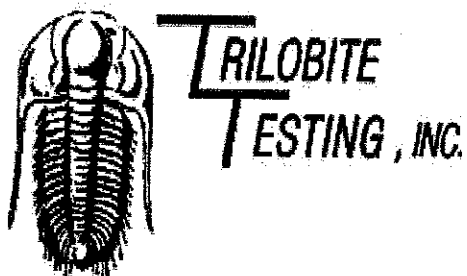
DST Test Number: 2



Tribble Testing, Inc

Ref. No: 59352

Printed: 2014.09.17 @ 11:11:24



DRILL STEM TEST REPORT

Prepared For: **Castle Resources, Inc**

PO Box 87
Schoenchen KS 67667

ATTN: Gerry Green

Pfannenstiel #2

11-5s-18w Phillips KS

Start Date: 2014.09.16 @ 09:02:00

End Date: 2014.09.16 @ 13:45:00

Job Ticket #: 59353 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.17 @ 11:10:36

Castle Resources, Inc 11-5s-18w Phillips KS Pfannenstiel #2 DST # 3 LKC "LJ" 2014.09.16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Castle Resources, Inc

11-5s-18w Phillips KS

PO Box 87
Schoenchen KS 67667

Pfannenstiel #2

Job Ticket: 59353 DST#: 3

ATTN: Gerry Green

Test Start: 2014.09.16 @ 09:02:00

GENERAL INFORMATION:

Formation: **LKC "I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:00:15

Time Test Ended: 13:45:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: **3276.00 ft (KB) To 3315.00 ft (KB) (TVD)**

Total Depth: 3315.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1948.00 ft (KB)

1943.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8940** Outside

Press@RunDepth: psig @ 3280.00 ft (KB)

Start Date: 2014.09.16 End Date: 2014.09.16

Start Time: 09:02:05 End Time: 13:44:59

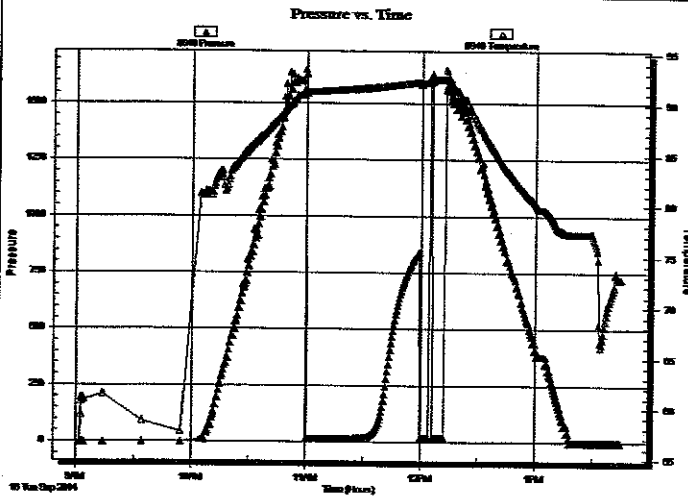
Capacity: 8000.00 psig

Last Calib.: 2014.09.16

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- Surface blow, died in 18 minutes
30 - IS- No return
15 - FF- no blow for 5 min. flushed tool, surged and died, pulled tool



PRESSURE SUMMARY

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

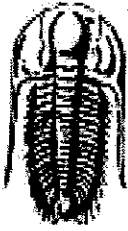
Recovery

Length (ft)	Description	Volume (bbl)
3.00	SOCM, 5%O, 95%M	0.04
3.00	Free Oil, 100%O	0.04

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources, Inc

11-5s-18w Phillips KS

PO Box 87
Schoenchen KS 67667

Pfannenstiel #2

Job Ticket: 59353

DST#: 3

ATTN: Gerry Green

Test Start: 2014.09.16 @ 09:02:00

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
3.00	SOCM, 5%O, 95%M	0.042
3.00	Free Oil, 100%O	0.042

Total Length: 6.00 ft Total Volume: 0.084 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

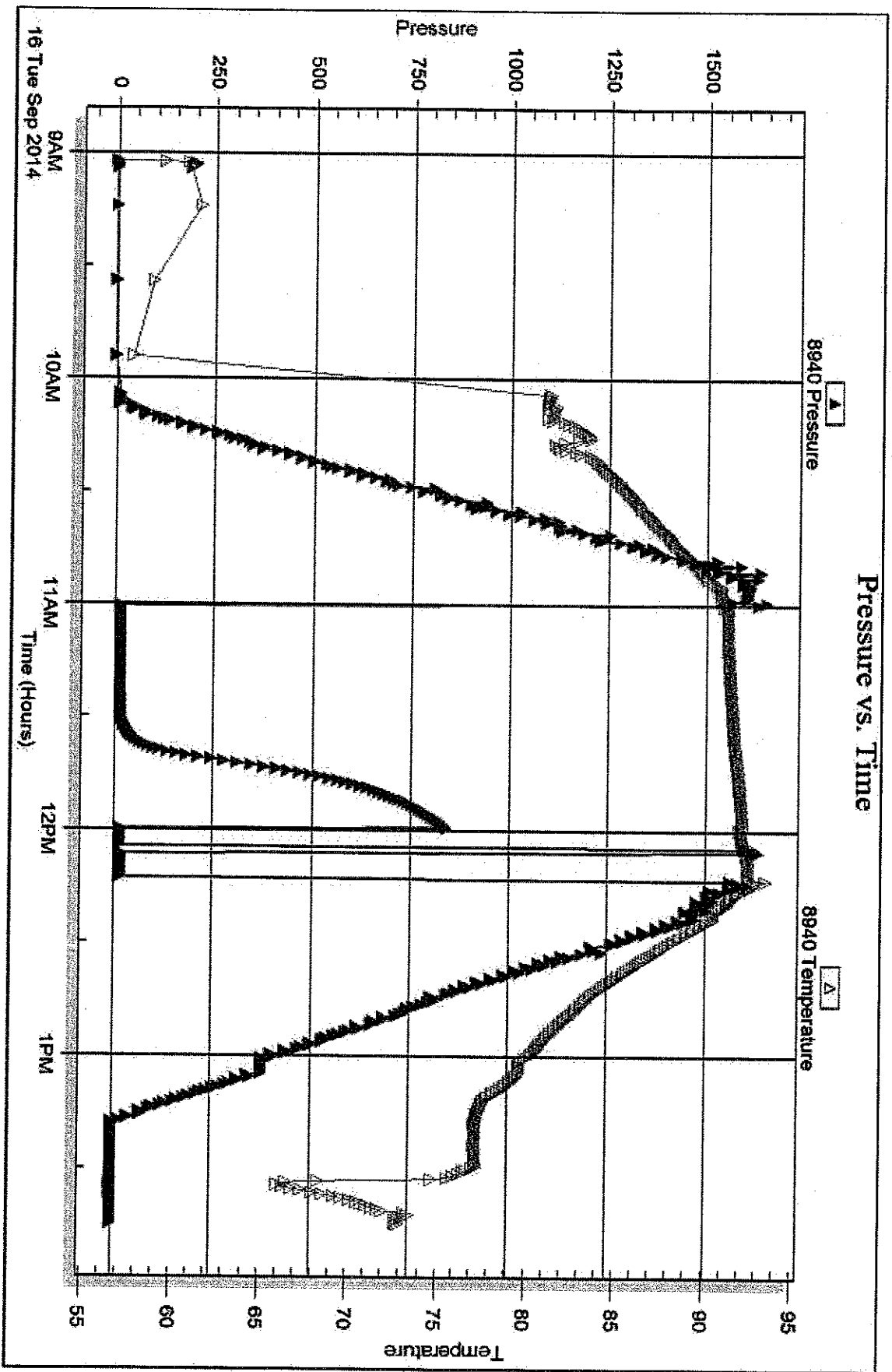
Recovery Comments:

Serial #: 8940

Outside Castle Resources, Inc.

Flammsteel #2

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 59353

Printed: 2014.09.17 @ 11:10:37



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59352

Well Name & No. Pfannenstiel #2 Test No. 2 Date 9-15-14
 Company Castle Resources, Inc Elevation 1945 KB 1943 GL
 Address Po Box 87, Schoenchen KS, 67667
 Co. Rep / Geo. Jerry Green Rig White Knight
 Location: Sec. 11 Twp. 55 Rge. 18w Co. Phillips State KS

Interval Tested 3090-3150 Zone Tested Tor-A
 Anchor Length 60' Drill Pipe Run 3102' Mud Wt. 9.1
 Top Packer Depth 3085 Drill Collars Run — Vis 48
 Bottom Packer Depth 3090 Wt. Pipe Run — WL 8.0
 Total Depth 3150 Chlorides 200 ppm System LCM 1

Blow Description IF - 74" @ blow, dred @ 14 minutes
ISI - No return
FF - No blow for 5 minutes, flushed tool, surged & dred. Pulled tool
FST -

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud - 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 5 BHT 86° Gravity — API RW — @ — °F Chlorides — ppm

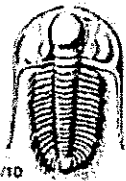
(A) Initial Hydrostatic 1509 Test 1150 T-On Location 1300
 (B) First Initial Flow 30 Jars — T-Started 1330
 (C) First Final Flow 30 Safety Joint — T-Open 1546
 (D) Initial Shut-In 500 Circ Sub — T-Pulled 1708
 (E) Second Initial Flow 31 Hourly Standby — T-Out 1830
 (F) Second Final Flow 32 Mileage 118RT 182.90
 (G) Final Shut-In — Sampler —
 (H) Final Hydrostatic 1501 Straddle —
 Shale Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —
 Sub Total 1332.90

Initial Open 30
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In —

Comments Hotel
 Ruined Shale Packer —
 Ruined Packer —
 Extra Copies —
 Sub Total 0
 Total 1332.90
 MP/DST Disc't —

Approved By _____ Our Representative Cody [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. 59353

Well Name & No. Pfannenstiel #2 Test No. 3 Date 9-16-14
 Company Castle Resources, Inc Elevation 1948 KB 1943 GL
 Address Po Box 87, Schoenchen KS, 67667
 Co. Rep / Geo. Jerry Green Rig White Knight
 Location: Sec. 11 Twp. 5S Rge. 18W Co. Phillips State KS

Interval Tested 3276-3315 Zone Tested "I, J"
 Anchor Length 39' Drill Pipe Run 3360' Mud Wt. 9.4
 Top Packer Depth 3271 Drill Collars Run — Vis 46
 Bottom Packer Depth 3276 Wt. Pipe Run — WL 8.0
 Total Depth 3315 Chlorides 800 ppm System LCM 1 #

Blow Description IF - Surface blow, died in 18 minutes
ISI - No return
FF - No blow for 5 min. flushed tool, surged & died - Pulled tool
FSI -

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>SOCM</u>	<u>5</u>		<u>95</u>	
<u>3</u>	<u>Free Oil</u>	<u>100</u>			

Rec Total 6' BHT 91° Gravity — API RW — @ —° F Chlorides — ppm

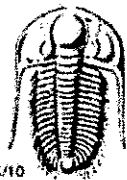
(A) Initial Hydrostatic 1632 Test 1150 T-On Location 0844
 (B) First Initial Flow 14 Jars — T-Started 0902
 (C) First Final Flow 15 Safety Joint — T-Open 1059
 (D) Initial Shut-In 838 Circ Sub — T-Pulled 1208
 (E) Second Initial Flow 16 Hourly Standby — T-Out 1345
 (F) Second Final Flow 13 Mileage 118RTK2 182.90
 (G) Final Shut-In — Sampler — 182.90
 (H) Final Hydrostatic 1616 Straddle —
 Shale Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —

Comments 9/17/14 @ 5:30 am Loaded tools
to Hotel

Initial Open 30
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In —
 Sub Total 1515.80
 Total 1515.80
 MP/DST Disc't —

Approved By _____ Our Representative Ludy [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. 59351

Well Name & No. Pfannenstiel #2 Test No. 1 Date 9-15-14
 Company Castle Resources, Inc Elevation 1948 KB 1943 GL
 Address Po Box 87, Schoenchen KS, 67667
 Co. Rep / Geo. Jerry Green Rig White knight
 Location: Sec. 11 Twp. 5s Rge. 18w Co. Phillips State KS

Interval Tested 3090-3150 Zone Tested Tor-A
 Anchor Length 60' Drill Pipe Run 3102' Mud Wt. 9.1
 Top Packer Depth 3085 Drill Collars Run - Vis 48
 Bottom Packer Depth 3090 Wt. Pipe Run - WL 8.6
 Total Depth 3150 Chlorides 200 ppm System LCM 1

Blow Description IF- Hit Bridge 1000' down could NOT
ISD- get through it. come out of hole
FF- with Tool to clean up hole.
FEI- 9:18 Am. Hit Bridge.

Rec	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic _____ Test 950 T-On Location 0547
 (B) First Initial Flow _____ Jars _____ T-Started 0607
 (C) First Final Flow _____ Safety Joint _____ T-Open _____
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled _____
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 1002
 (F) Second Final Flow _____ Mileage 118BT 182.90 Comments Hit bridge
 (G) Final Shut-In _____ Sampler _____ * Hotel *
 (H) Final Hydrostatic _____ Straddle _____

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open _____
 Initial Shut-In _____
 Final Flow _____
 Final Shut-In _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1132.90
 Total 1132.90
 MP/DST Disc't _____

Approved By _____ Our Representative Cody [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.

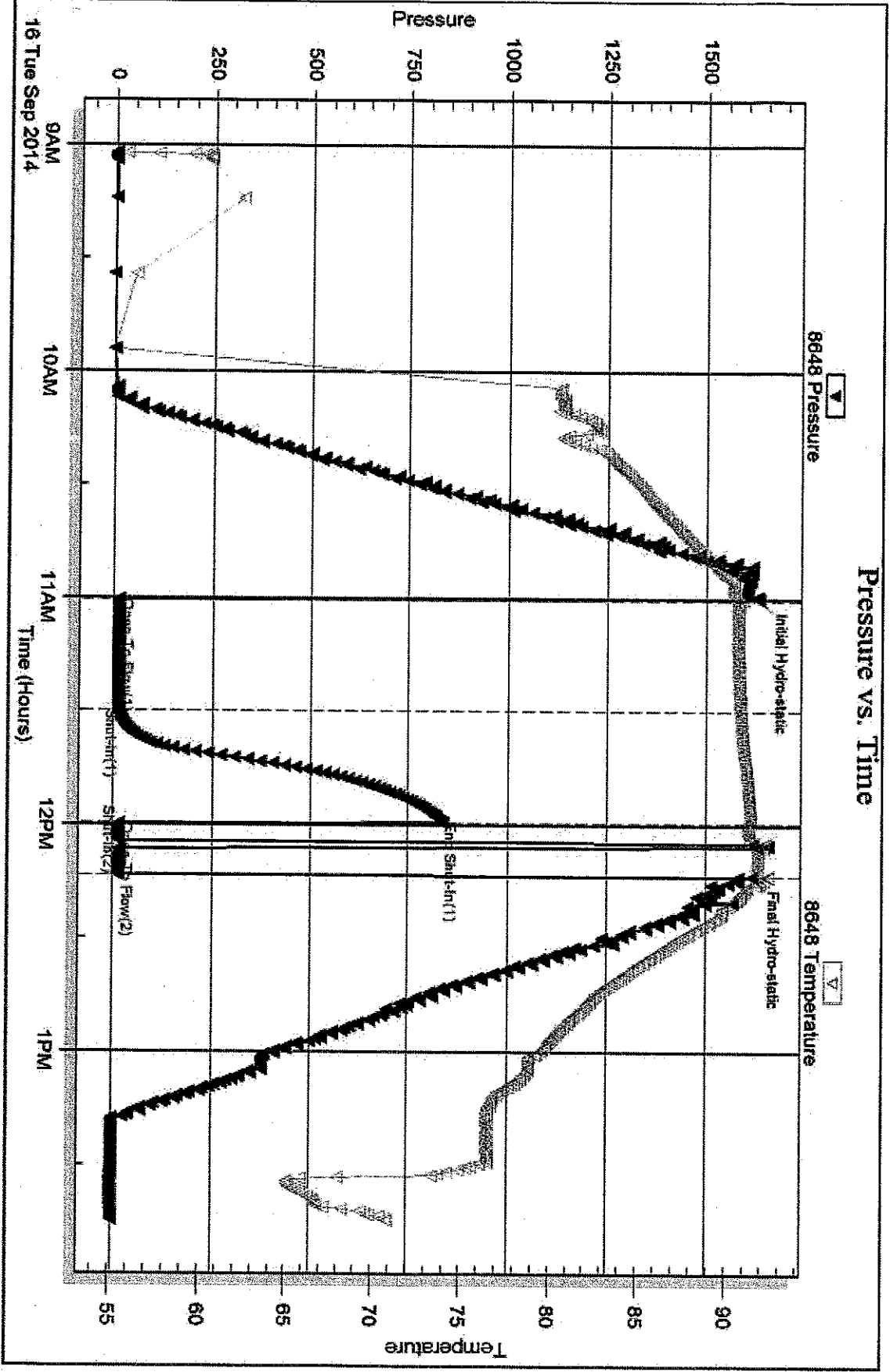
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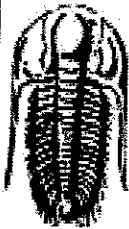
Inside

Castle Resources, Inc

Flammenstel #2

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castle Resources, Inc

11-5s-18w Phillips KS

PO Box 87
Schoenchen KS 67667

Pfannenstiel #2

Job Ticket: 59353

DST#: 3

ATTN: Gerry Green

Test Start: 2014.09.16 @ 09:02:00

Tool Information

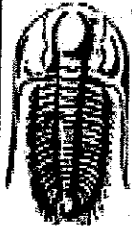
Drill Pipe:	Length: 3260.00 ft	Diameter: 3.80 inches	Volume: 45.73 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: 45.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3276.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	60.00 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			3256.00	
Shut In Tool	5.00			3261.00	
Hydraulic tool	5.00			3266.00	
Packer	5.00			3271.00	21.00 Bottom Of Top Packer
Packer	5.00			3276.00	
Stubb	1.00			3277.00	
Perforations	3.00			3280.00	
Recorder	0.00	8648	Inside	3280.00	
Recorder	0.00	8940	Outside	3280.00	
Perforations	32.00			3312.00	
Bullnose	3.00			3315.00	39.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Castle Resources, Inc
PO Box 87
Schoenchen KS 67667
ATTN: Gerry Green

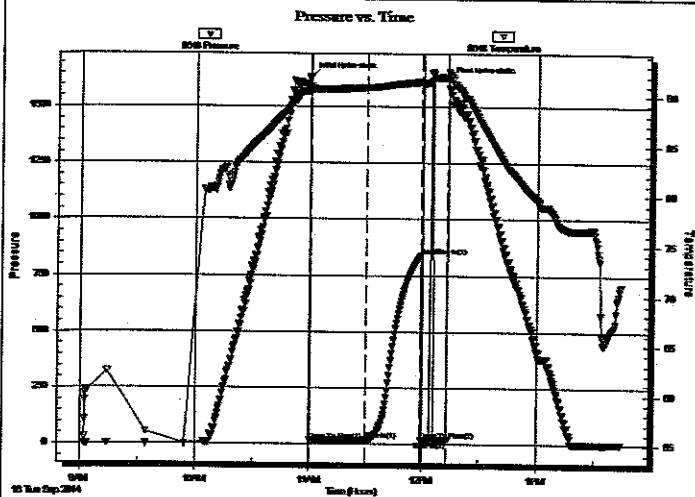
11-5s-18w Phillips KS
Pfannenstiel #2
Job Ticket: 59353 **DST#: 3**
Test Start: 2014.09.16 @ 09:02:00

GENERAL INFORMATION:

Formation: **LKC "I-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:00:15
Time Test Ended: 13:45:00
Interval: **3276.00 ft (KB) To 3315.00 ft (KB) (TVD)**
Total Depth: 3315.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1948.00 ft (KB)
1943.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 73

Serial #: 8648 Inside
Press@RunDepth: 15.74 psig @ 3280.00 ft (KB)
Start Date: 2014.09.16 End Date: 2014.09.16
Start Time: 09:02:05 End Time: 13:44:59
Capacity: 8000.00 psig
Last Calib.: 2014.09.16
Time On Btm: 2014.09.16 @ 11:00:00
Time Off Btm: 2014.09.16 @ 12:13:30

TEST COMMENT: 30 - IF- Surface blow , died in 18 minutes
30 - IS- No return
15 - FF- no blow for 5 min. flushed tool, surged and died, pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1632.74	90.99	Initial Hydro-static
1	14.79	90.46	Open To Flow (1)
30	15.74	90.85	Shut-In(1)
60	838.56	91.46	End Shut-In(1)
60	16.90	91.20	Open To Flow (2)
74	13.48	91.90	Shut-In(2)
74	1616.54	92.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	SOCM, 5%O, 95%M	0.04
3.00	Free Oil, 100%O	0.04

* Recovery from multiple tests

Gas Rates

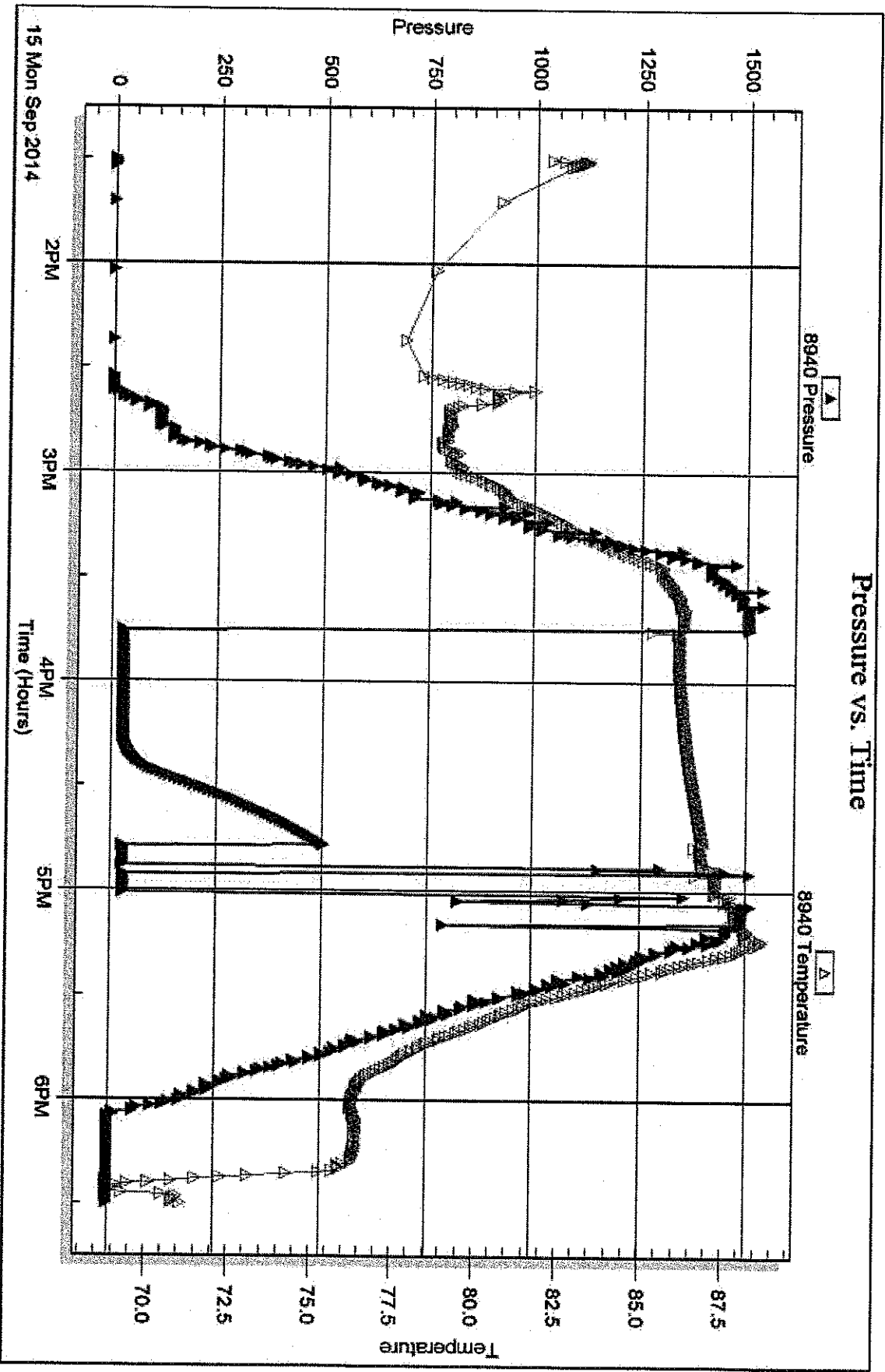
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Serial #: 8940

Outside Castle Resources, Inc

Flannister #2

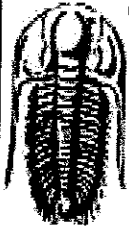
DST Test Number: 2



Trioble Testing, Inc

Ref. No: 59352

Printed: 2014.09.17 @ 11:11:24



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources, Inc
 PO Box 87
 Schoenchen KS 67667
 ATTN: Gerry Green

11-5s-18w Phillips KS
Pfannenstiel #2
 Job Ticket: 59352 **DST#: 2**
 Test Start: 2014.09.15 @ 13:30:00

Mud and Cushion Information

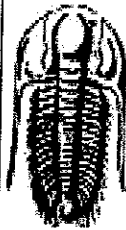
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud - Oil spots, 100%M	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Castle Resources, Inc
 PO Box 87
 Schoenchen KS 67667
 ATTN: Gerry Green

11-5s-18w Phillips KS

Pfannenstiel #2

Job Ticket: 59352

DST#: 2

Test Start: 2014.09.15 @ 13:30:00

GENERAL INFORMATION:

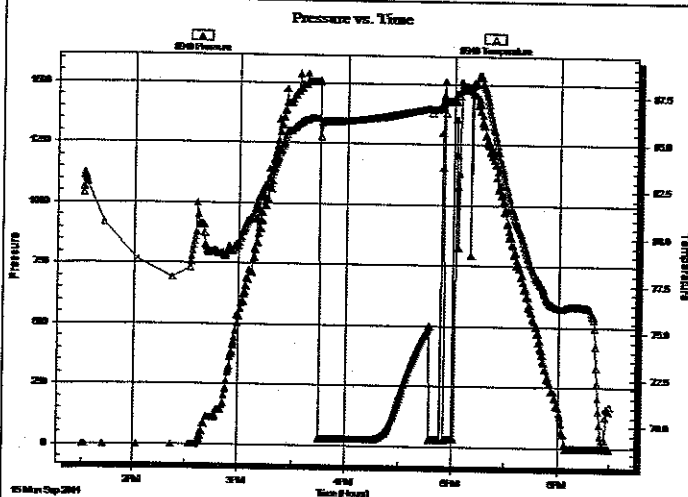
Formation: **Toronto - LKC A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:45:15
 Time Test Ended: 18:30:00
 Interval: **3090.00 ft (KB) To 3150.00 ft (KB) (TVD)**
 Total Depth: 3150.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 73
 Reference Elevations: 1948.00 ft (KB)
 1943.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8940

Outside

Press@RunDepth: psig @ 3127.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.15 End Date: 2014.09.15 Last Calib.: 2014.09.15
 Start Time: 13:30:05 End Time: 18:29:59 Time On Btrn:
 Time Off Btrn:

TEST COMMENT: 30 - IF- 1/4" blow, died @ 14 minutes
 30 - ISF- No return
 15 - FF- No blow for 5 minutes, flushed tool, surged and died. pulled tool



PRESSURE SUMMARY

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

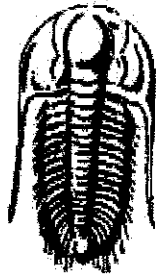
Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - Oil spots, 100%M	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Castle Resources, Inc**

PO Box 87
Schoenchen KS 67667

ATTN: Gerry Green

Pfannenstiel #2

11-5s-18w Phillips KS

Start Date: 2014.09.15 @ 13:30:00

End Date: 2014.09.15 @ 18:30:00

Job Ticket #: 59352 DST #: 2

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2014.09.17 @ 11:11:23

Castle Resources, Inc

11-5s-18w Phillips KS

Pfannenstiel #2

DST # 2

Toronto - LKC A

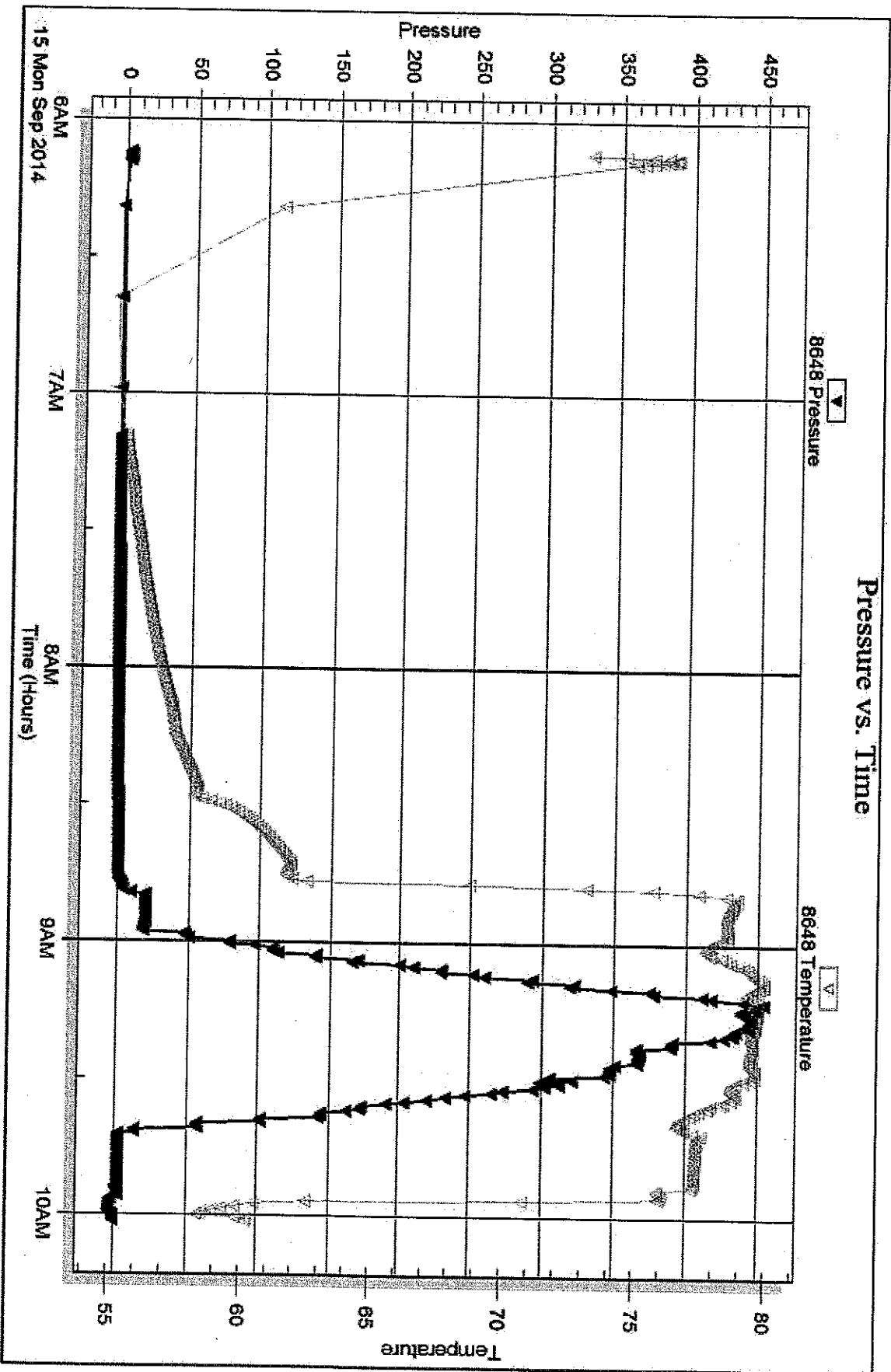
2014.09.15

Serial #: 8648

Inside Castle Resources, Inc

Flammestiel #2

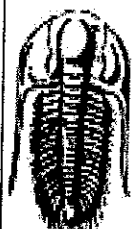
DST Test Number: 1



Tribble Testing, Inc

Ref. No: 59351

Printed: 2014.09.17 @ 11:11:46



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castle Resources, Inc

11-5s-18w Phillips KS

PO Box 87
Schoenchen KS 67667

Pfannenstiel #2

Job Ticket: 59351

DST#: 1

ATTN: Gerry Green

Test Start: 2014.09.15 @ 06:07:05

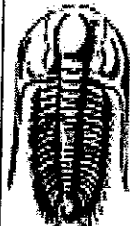
Tool Information

Drill Pipe:	Length: 3102.00 ft	Diameter: 3.80 inches	Volume: 43.51 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: 2500.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
		Total Volume:	43.51 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial lb
Depth to Top Packer:	3090.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Hit a bridge roughly a 1000' down, not enough weight to open tool. tried pushing through bridge. Did not work. Came out of hole with tool to clean up the hole.

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3070.00	
Shut In Tool	5.00			3075.00	
Hydraulic tool	5.00			3080.00	
Packer	5.00			3085.00	21.00 Bottom Of Top Packer
Packer	5.00			3090.00	
Stubb	1.00			3091.00	
Perforations	3.00			3094.00	
Change Over Sub	1.00			3095.00	
Drill Pipe	31.00			3126.00	
Change Over Sub	1.00			3127.00	
Recorder	0.00	8648	Inside	3127.00	
Recorder	0.00	8940	Outside	3127.00	
Perforations	20.00			3147.00	
Bullnose	3.00			3150.00	60.00 Bottom Packers & Anchor
Total Tool Length:	81.00				



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Castle Resources, Inc

PO Box 87
Schoenchen KS 67667

ATTN: Gerry Green

11-5s-18w Phillips KS**Pfannenstiel #2**

Job Ticket: 59351

DST#: 1

Test Start: 2014.09.15 @ 06:07:05

GENERAL INFORMATION:

Formation: **Toronto - LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 10:01:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 73

Interval: **3090.00 ft (KB) To 3150.00 ft (KB) (TVD)**

Total Depth: 3150.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1948.00 ft (KB)

1943.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8648

Inside

Press@RunDepth: psig @ 3127.00 ft (KB)

Start Date: 2014.09.15 End Date: 2014.09.15

Start Time: 06:07:05 End Time: 10:01:30

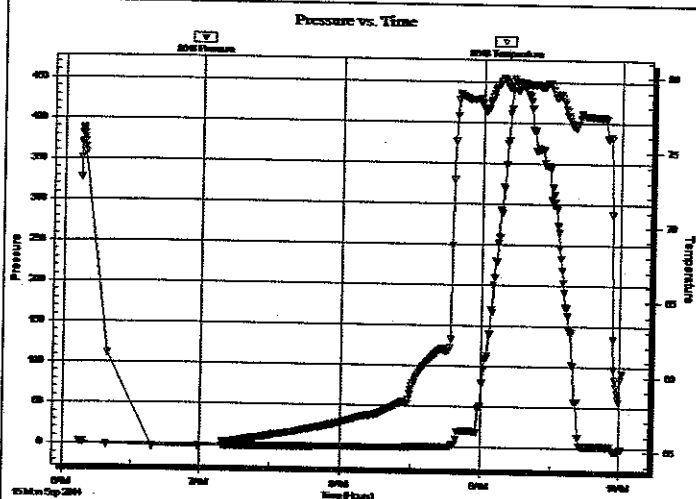
Capacity: 8000.00 psig

Last Calib.: 2014.09.15

Time On Btm:

Time Off Btm:

TEST COMMENT: Hit bridge roughly 1000' up. could not get through it. come out of hole with tool to clean up hole.



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)