



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1215436  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1215436

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <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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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Castle Resources, Inc.
Well Name	GSK Unit 1
Doc ID	1215436

All Electric Logs Run

Compensated Density Neutron
Borehole Compensated Sonic
Dual Induction
Micro Resistivity

Form	ACO1 - Well Completion
Operator	Castle Resources, Inc.
Well Name	GSK Unit 1
Doc ID	1215436

Tops

Name	Top	Datum
Heebner	4102	-901
LKC	4143	-942
BKC	4422	-1221
Pawnee	4546	-1345
Ft Scott	4606	-1405
Johnson zone	4672	-1471
Mississippi	4744	-1543
RTD	4790	-1589

# ALLIED OIL & GAS SERVICES, LLC 063445

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:  
Cathey, KS

DATE <u>6-26-14</u>	SEC. <u>13</u>	TWP. <u>9S</u>	RANGE <u>34W</u>	CALLED OUT	ON LOCATION <u>3:30 PM</u>	JOB START <u>8:00 AM</u>	JOB FINISH <u>8:30 AM</u>
LEASE <u>Castle Resources</u>		WELL # <u>#1</u>	LOCATION <u>1/4 W 51 N 40</u>		COUNTY <u>Thomas</u>	STATE <u>KS</u>	
OLD OR (NEW) (Circle one)							

CONTRACTOR White Knights

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4790

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_

OWNER Jame

CEMENT

AMOUNT ORDERED 240 SKS 60/40 Poz

470 gel 1/4" #10 seq 1

EQUIPMENT

PUMP TRUCK # <u>423428</u>	CEMENTER <u>Kelly Gabel</u>
BULK TRUCK # <u>3734308</u>	HELPER <u>John Ryan</u>
BULK TRUCK # _____	DRIVER <u>John P. (new)</u>
BULK TRUCK # _____	DRIVER _____

COMMON _____	@ _____
POZMIX _____	@ _____
GEL _____	@ _____
CHLORIDE _____	@ _____
ASC _____	@ _____
<u>60/40 Poz 240 SKS</u>	@ <u>18.75</u> <u>4540.80</u>
<u>Flow seal 60" #10</u>	@ <u>2.92</u> <u>178.20</u>
<u>Material total</u>	@ _____ <u>4719.00</u>
<u>(1174.75 / 25%)</u>	@ _____
HANDLING <u>257.76</u>	@ <u>2.98</u> <u>639.24</u>
MILEAGE <u>10.32</u>	@ <u>50.00</u> <u>516.60</u>

REMARKS:

digged 110

50 @ 2765

100 @ 1800

50 @ 360

10 @ 40 w wiper Plug

32 RH

Thank You  
Kelly screw

TOTAL \_\_\_\_\_

SERVICE

DEPTH OF JOB _____	<u>2765'</u>
PUMP TRUCK CHARGE _____	<u>1250.00</u>
EXTRA FOOTAGE _____	@ _____
MILEAGE <u>Mi HV 20</u>	@ <u>7.20</u> <u>154.00</u>
MANIFOLD _____	@ _____
<u>Mi LV 20</u>	@ <u>4.40</u> <u>88.00</u>
<u>(674.71 / 25%)</u>	@ _____
TOTAL	<u>2698.84</u>

CHARGE TO: Castle Resources

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

<u>1-8 5/8 wooden plug</u>	<u>110.00</u>
_____	@ _____
_____	@ _____
_____	@ _____
<u>(0)</u>	TOTAL <u>110.00</u>

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 Robert Galbavy

SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 7,527.84

DISCOUNT 1,854.46 (25%) IF PAID IN 30 DAYS

5,673.38 Net

# ALLIED OIL & GAS SERVICES, LLC 064020

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:  
Oakley KS

DATE <u>6-20-14</u>	SEC. <u>13</u>	TWP. <u>9</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>9:00 a.m.</u>	JOB START <u>10:30 a.m.</u>	JOB FINISH <u>11:00 a.m.</u>
LEASE <u>6SK</u>	WELL# <u>1</u>	LOCATION <u>Mingo W to Hwy 25 114W</u>		COUNTY <u>Thomas</u>	STATE <u>KS</u>		
OLD OR (NEW) (Circle one)		<u>Siato</u>					

CONTRACTOR White Knight  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 305'  
 CASING SIZE 8 5/8 DEPTH 303.10  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15'  
 PERFS.  
 DISPLACEMENT 18.35 bbl water  
 EQUIPMENT

OWNER Same  
 CEMENT AMOUNT ORDERED 190 sks Com 3/1.00  
2 1/2 gal  
 COMMON 190 sks @ 17.90 3401.00  
 POZMIX @  
 GEL 357 \* @ 1.05 374.85  
 CHLORIDE 536 # @ 1.10 589.60  
 ASC @  
 @  
Material total 4,965.45  
(1091.36 / 25%)  
 @  
 @  
 @  
 @  
 HANDLING 205.45 ft<sup>3</sup> @ 2.48 509.52  
 MILEAGE 9.38 tons @ 20m. 43.76 515.90  
 TOTAL

PUMP TRUCK CEMENTER Paul Beaver  
 # 120 HELPER Tyler Flipse  
 BULK TRUCK  
 # 566/525 DRIVER John Poore (TWS)  
 BULK TRUCK  
 # DRIVER

REMARKS:  
Mix 190 sks Com 3/1.00 2 1/2 gal  
Displace w/ water

cement did crackle  
Thank You!  
Paul + Tyler

CHARGE TO: Castle Res.  
 STREET  
 CITY STATE ZIP

SERVICE  
 DEPTH OF JOB 305'  
 PUMP TRUCK CHARGE 1512.25  
 EXTRA FOOTAGE @  
 MILEAGE MILV 72 @ 7.70 154.00  
 MANIFOLD @  
MILV 20 @ 4.45 89.00  
(6,949.20 / 25%) TOTAL 2,779.67

PLUG & FLOAT EQUIPMENT  
 @  
 @  
 @  
 @  
 @  
 TOTAL

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  
 SIGNATURE Ray Cleveland

SALES TAX (if Any)  
 TOTAL CHARGES 7,145.12  
 DISCOUNT 1,786.28 (25%) IF PAID IN 30 DAYS  
5,358.84 Net



## DRILL STEM TEST REPORT

Prepared For: **Castle Resources Inc**

PO Box 87  
Schoenchen, KS 67667-0087

ATTN: Jerry Green

### GSK Unit #1

#### 13-9s-34w Thomas,KS

Start Date: 2014.06.26 @ 02:25:30

End Date: 2014.06.26 @ 08:40:30

Job Ticket #: 59074      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.30 @ 09:25:38

Castle Resources Inc

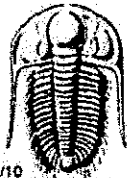
13-9s-34w Thomas,KS

GSK Unit #1

DST # 1

Myric Station

2014.06.26



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59075

Well Name & No. CSR Unit #1 Test No. #2 Date 4/26/14  
 Company Calle Resources Inc Elevation 3201 KB 3196 GL  
 Address Box 87, Schoenchen, KS 67167-0087  
 Co. Rep / Geo. Jerry Green Rig White Knight  
 Location: Sec. 13 Twp. 9 Rge. 34 Co. Thomas State KS

Interval Tested 4555 4611 Zone Tested Mine Station  
 Anchor Length 66' Drill Pipe Run 4554 Mud Wt. 9.8  
 Top Packer Depth 4530 4555 Shale Drill Collars Run          Vis 53  
 Bottom Packer Depth 4611 Shale 4616 Wt. Pipe Run          WL 24.0  
 Total Depth 4790 Chlorides 18,000 ppm System LCM #1 1/2  
 Blow Description Packers Sealed @ open / Reset failed again, Full tool

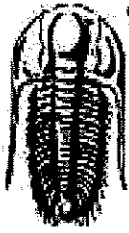
Rec	Feet of	%gas	%oil	%water	%mud
<u>195'</u>	<u>Mud</u>			<u>100%</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 195' BHT 124° Gravity          API RW          @          F Chlorides          ppm  
 (A) Initial Hydrostatic 2550  Test 1050 T-On Location Top of Packer  
 (B) First Initial Flow           Jars T-Started 10:00  
 (C) First Final Flow           Safety Joint T-Open 12:26  
 (D) Initial Shut-In           Circ Sub N/A T-Pulled 12:28  
 (E) Second Initial Flow           Hourly Standby T-Out 13:00  
 (F) Second Final Flow           Mileage 18.5 186 Comments 8:45 to 10:00  
 (G) Final Shut-In           Sampler          W.O.C. / Change tail packer  
 (H) Final Hydrostatic 2490  Straddle 600  Ruined Shale Packer           
 Shale Packer XR 500  Ruined Packer           
 Extra Packer 250  Extra Copies           
 Extra Recorder          Sub Total 0  
 Day Standby          Total 2586  
 Accessibility          MP/DST Disc't           
 Sub Total 2586

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

Trilobite Testing Inc. shall not be liable for damaged or 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.**

# DRILL STEM TEST REPORT

Castle Resources Inc  
PO Box 87  
Schoenchen, KS 67667-0087  
  
ATTN: Jerry Green

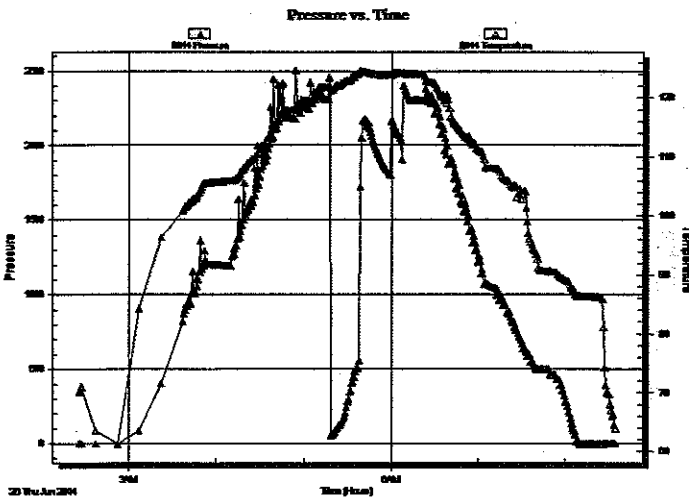
**13-9s-34w Thomas,KS**  
  
**GSK Unit #1**  
Job Ticket: 59074      **DST#: 1**  
Test Start: 2014.06.26 @ 02:25:30

## GENERAL INFORMATION:

Formation: **Myric Station**  
Deviated: No Whipstock:                      ft (KB)      Test Type: Conventional Straddle (Initial)  
Time Tool Opened: 05:19:00      Tester: Shane McBride  
Time Test Ended: 08:40:30      Unit No: 55  
  
Interval: **4550.00 ft (KB) To 4620.00 ft (KB) (TVD)**      Reference Elevations: 3201.00 ft (KB)  
Total Depth: 4790.00 ft (KB) (TVD)      3196.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8844      Outside**  
Press@RunDepth:                      psig @ 4555.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.06.26      End Date: 2014.06.26      Last Calib.: 2014.06.26  
Start Time: 02:25:27      End Time: 08:35:27      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** mud was dropping slowly throughout open B.O.B. in 7 min. going around packers  
Shut tool in after 20 min. mud did not drop pull tool



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

Recovery		
Length (ft)	Description	Volume (bbl)
900.00	mud 100% m	12.62

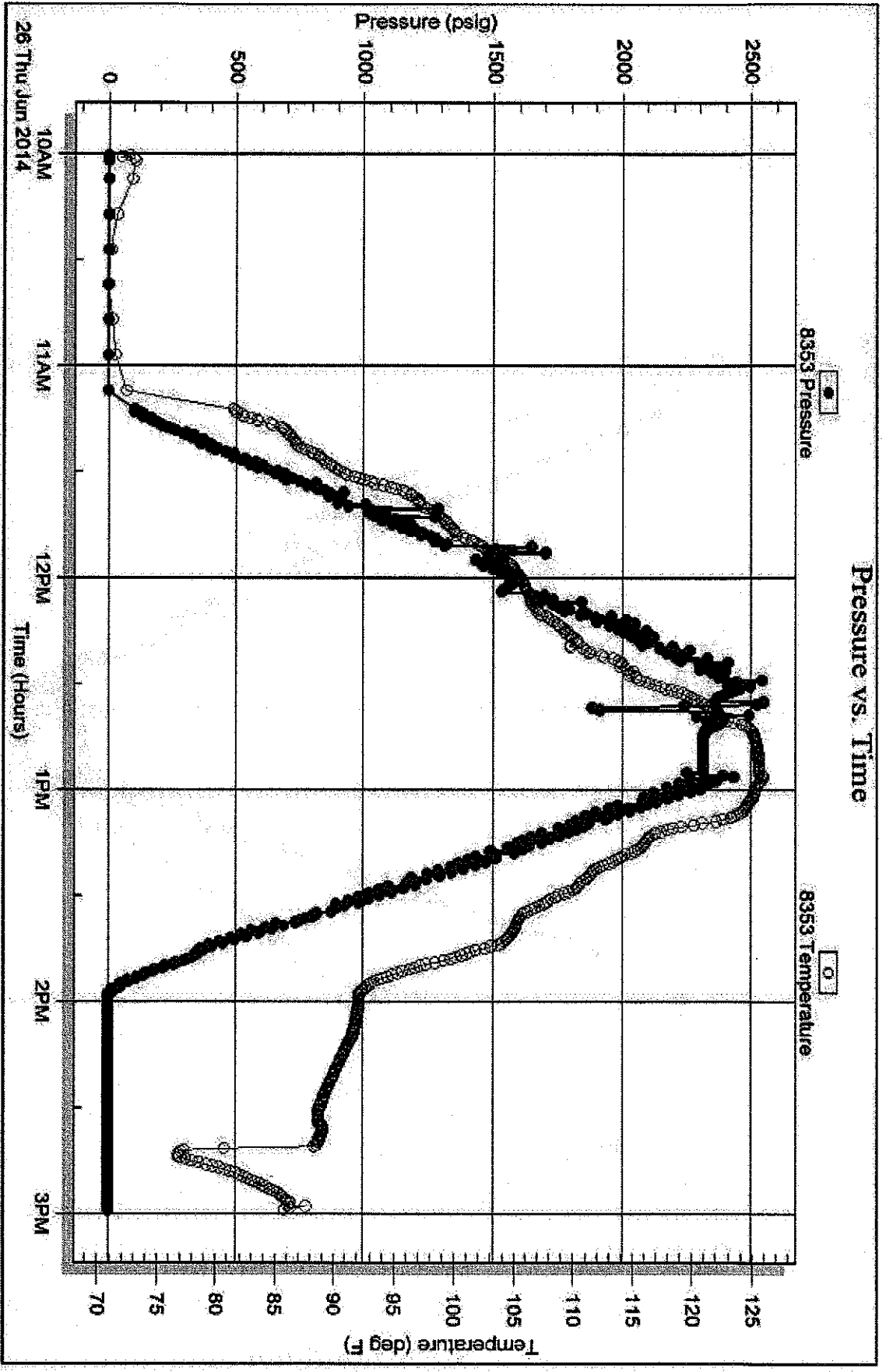
Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

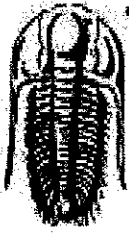
Serial #: 8353

Below (Straddle) Resources Inc

GSK Unit #1

DST Test Number: 2





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Castle Resources Inc  
 PO Box 87  
 Schoenchen, KS 67667-0087  
 ATTN: Jerry Green

**13-9s-34w Thomas,KS**  
**GSK Unit #1**  
 Job Ticket: 59074      **DST#: 1**  
 Test Start: 2014.06.26 @ 02:25:30

**Tool Information**

Drill Pipe:	Length: 4552.00 ft	Diameter: 3.80 inches	Volume: 63.85 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 33000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 63.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4550.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	4794.00 ft			
Interval between Packers:	244.00 ft			
Tool Length:	260.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4535.00	
Shut In Tool	5.00			4540.00	
Hydraulic tool	5.00			4545.00	
Packer	5.00			4550.00	16.00      Bottom Of Top Packer
Packer - Shale	4.00			4554.00	
Stubb	1.00			4555.00	
Recorder	0.00	6771	Inside	4555.00	
Recorder	0.00	8844	Outside	4555.00	
Perforations	7.00			4562.00	
Change Over Sub	1.00			4563.00	
Drill Pipe	32.00			4595.00	
Change Over Sub	1.00			4596.00	
Perforations	24.00			4620.00	
Blank Off Sub	1.00			4621.00	
top of s packer	3.00			4624.00	
Stubb	1.00			4625.00	
Anchor	4.00			4629.00	
Change Over Sub	1.00			4630.00	
Recorder	0.00	8353	Below	4630.00	
Drill Pipe	158.00			4788.00	
Change Over Sub	1.00			4789.00	
Bullnose	5.00			4794.00	244.00      Anchor Tool

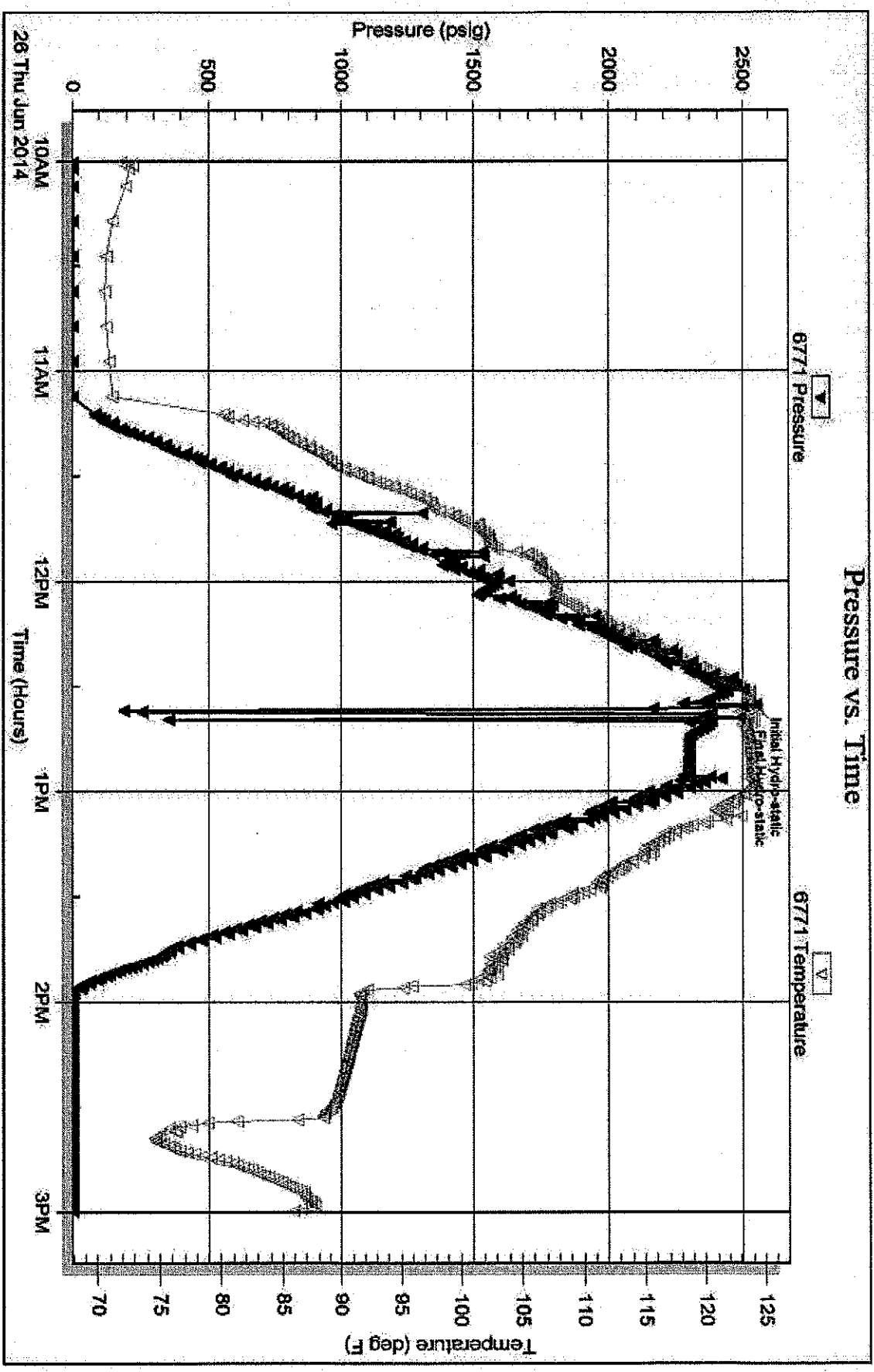
**Total Tool Length: 260.00**

Serial #: 6771

Inside Castle Resources Inc

GSK Unit #1

DST Test Number 2



Triacelle Testing, Inc

Ref. No: 59074

Printed: 2014.06.30 @ 09:24:48

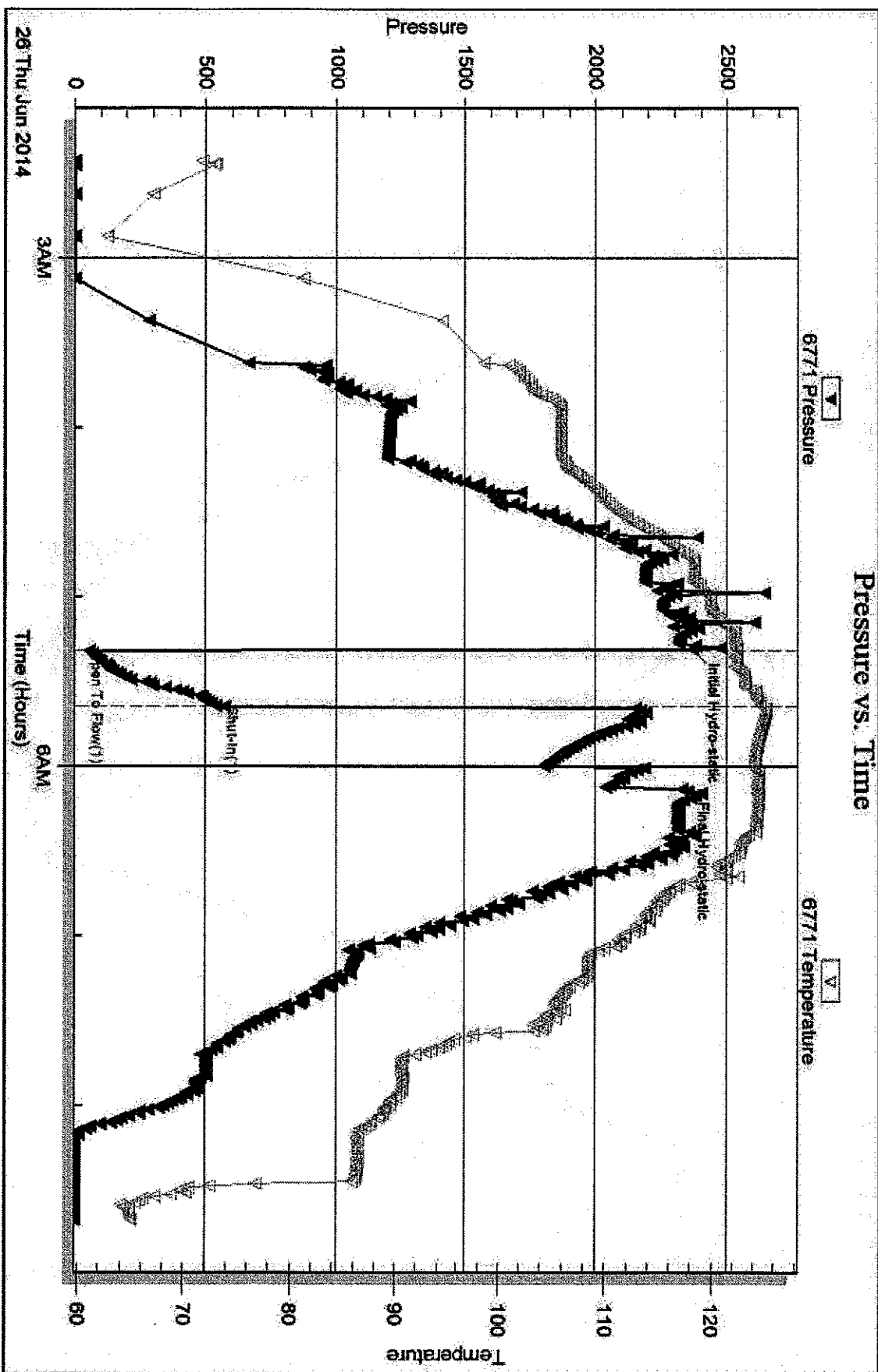
Serial #: 6771

Inside

Castle Resources Inc

GSK Unit #1

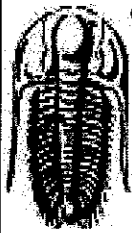
DST Test Number: 1



Triadble Testing, Inc

Ref. No: 59074

Printed: 2014.06.30 @ 09:25:39



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Castle Resources Inc  
 PO Box 87  
 Schoenchen, KS 67667-0087  
 ATTN: Jerry Green

**13-9s-34w Thomas,KS**  
**GSK Unit #1**  
 Job Ticket: 59074      **DST#: 2**  
 Test Start: 2014.06.26 @ 10:00:26

**Tool Information**

Drill Pipe:	Length: 4554.00 ft	Diameter: 3.80 inches	Volume: 63.88 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 34000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<b>Total Volume: 63.88 bbl</b>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	4555.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	4616.00 ft			
Interval between Packers:	61.00 ft			
Tool Length:	255.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

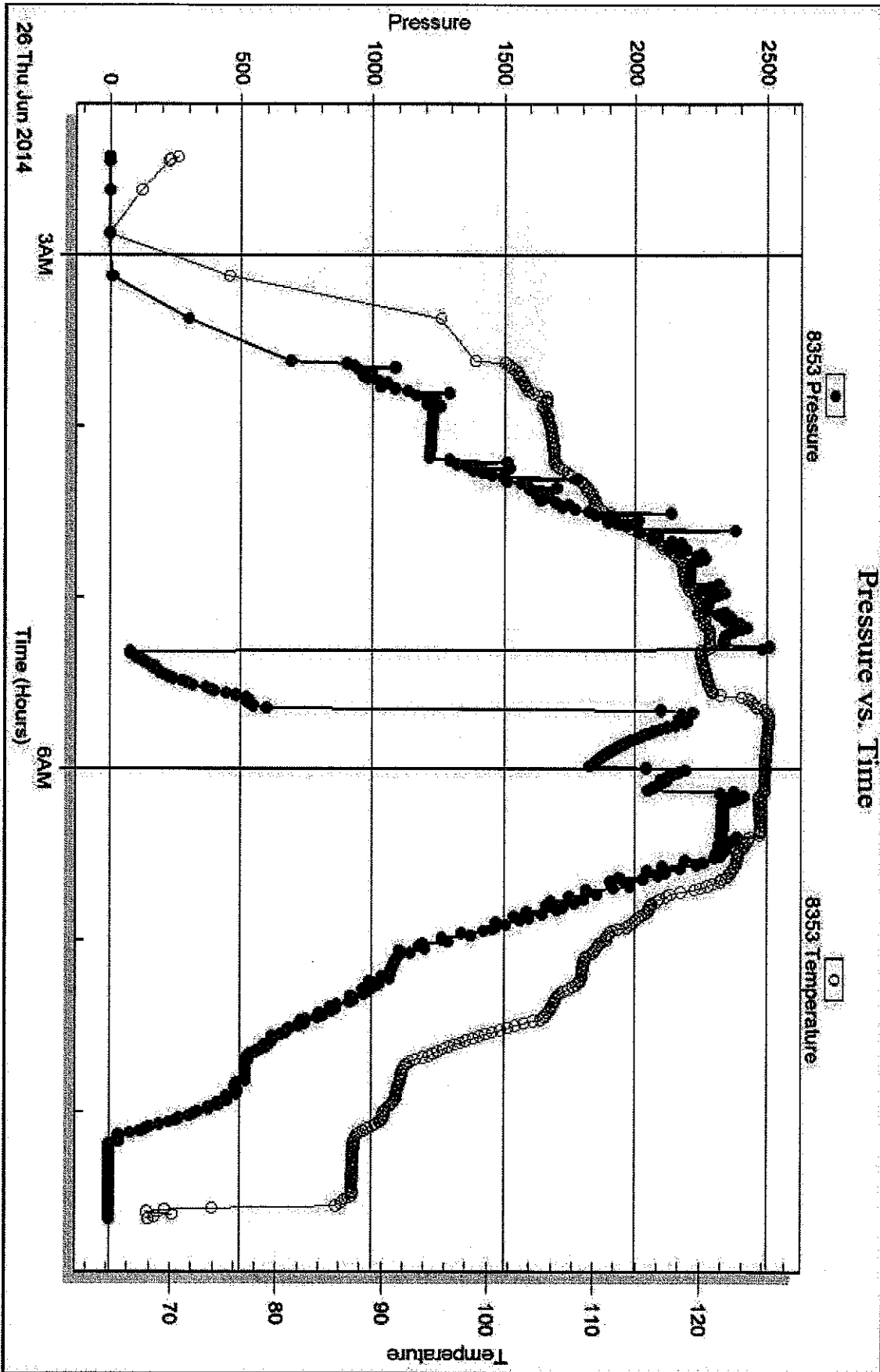
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4540.00		
Shut In Tool	5.00			4545.00		
Hydraulic tool	5.00			4550.00		
Packer	5.00			4555.00	16.00	Bottom Of Top Packer
Packer - Shale	4.00			4559.00		
Stubb	1.00			4560.00		
Recorder	0.00	6771	Inside	4560.00		
Recorder	0.00	8844	Outside	4560.00		
Perforations	7.00			4567.00		
Change Over Sub	1.00			4568.00		
Drill Pipe	32.00			4600.00		
Change Over Sub	1.00			4601.00		
Perforations	10.00			4611.00		
Blank Off Sub	1.00			4612.00		
top of s packer	3.00			4615.00		
Stubb	1.00			4616.00	61.00	Tool Interval
Packer	4.00			4620.00		
Stubb	1.00			4621.00		
Anchor	8.00			4629.00		
Change Over Sub	1.00			4630.00		
Recorder	0.00	8353	Below	4630.00		
Drill Pipe	158.00			4788.00		
Change Over Sub	1.00			4789.00		
Bullnose	5.00			4794.00	178.00	Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>255.00</b>					

Serial #: 8353

Below (Straddling) Resources, Inc

GSK Unit #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 59074

Printed: 2014.06.30 @ 09:25:39



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Castle Resources Inc

13-9s-34w Thomas,KS

PO Box 87  
Schoenchen, KS 67667-0087

**GSK Unit #1**

Job Ticket: 59074

**DST#: 2**

ATTN: Jerry Green

Test Start: 2014.06.26 @ 10:00:26

## GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:26:00

Time Test Ended: 14:59:26

Test Type: Conventional Straddle (Reset)

Tester: Shane McBride

Unit No: 55

Interval: **4555.00 ft (KB) To 4611.00 ft (KB) (TVD)**

Total Depth: 4790.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3201.00 ft (KB)

3196.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8844** Outside

Press@RunDepth: psig @ 4560.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.26

End Date:

2014.06.26

Last Calib.:

2014.06.26

Start Time: 10:01:05

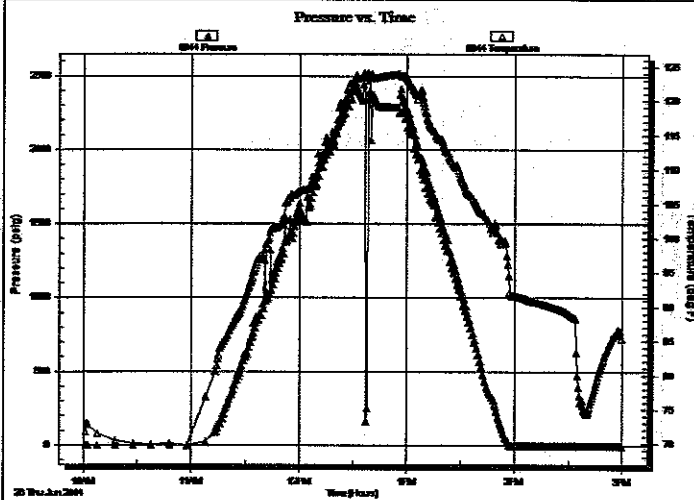
End Time:

14:59:35

Time On Btm:

Time Off Btm:

TEST COMMENT: Packers Failed @ open , reset failed again , pull tool



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
195.00	mud 100% m	2.74

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Castle Resources Inc  
 PO Box 87  
 Schoenchen, KS 67667-0087  
 ATTN: Jerry Green

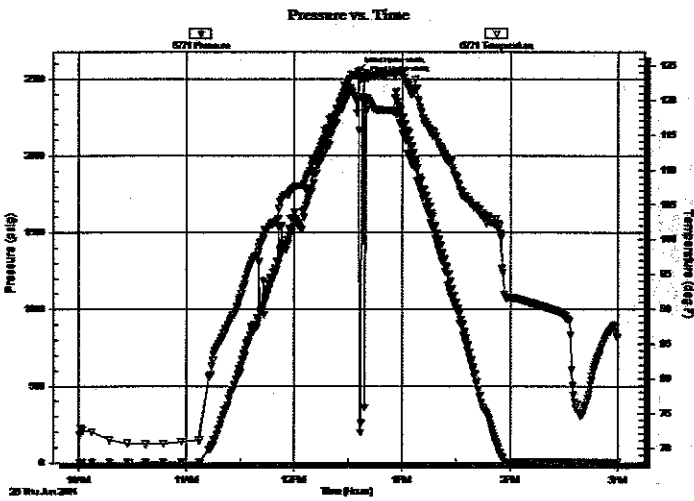
**13-9s-34w Thomas,KS**  
**GSK Unit #1**  
 Job Ticket: 59074      **DST#: 2**  
 Test Start: 2014.06.26 @ 10:00:26

### GENERAL INFORMATION:

Formation: **Myric Station**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:26:00  
 Time Test Ended: 14:59:26  
 Interval: **4555.00 ft (KB) To 4611.00 ft (KB) (TVD)**  
 Total Depth: 4790.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Reset)  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 3201.00 ft (KB)  
 3196.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6771** Inside  
 Press@RunDepth: psig @ 4560.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.06.26 End Date: 2014.06.26 Last Calib.: 2014.06.26  
 Start Time: 10:00:26 End Time: 14:59:26 Time On Btm: 2014.06.26 @ 12:35:26  
 Time Off Btm: 2014.06.26 @ 12:38:56

TEST COMMENT: Packers Failed @ open , reset failed again , pull tool



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2550.13	123.65	Initial Hydro-static
4	2490.56	123.86	Final Hydro-static

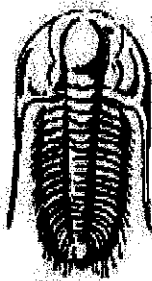
### Recovery

Length (ft)	Description	Volume (bbl)
195.00	mud 100% m	2.74

\* 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 67667-0087

ATTN: Jerry Green

**GSK Unit #1**

**13-9s-34w Thomas,KS**

Start Date: 2014.06.26 @ 10:00:26

End Date: 2014.06.26 @ 14:59:26

Job Ticket #: 59074          DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.30 @ 09:24:47

Castle Resources Inc

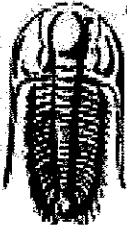
13-9s-34w Thomas,KS

GSK Unit #1

DST # 2

MYRIC Station

2014.06.26



# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

Castle Resources Inc  
PO Box 87  
Schoenchen, KS 67667-0087  
ATTN: Jerry Green

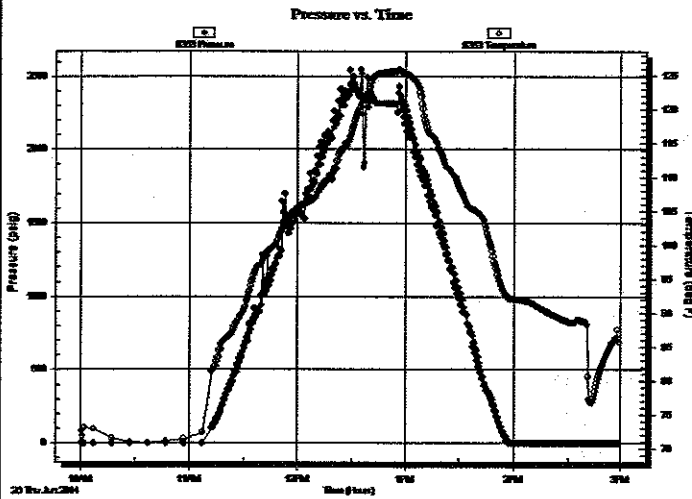
13-9s-34w Thomas,KS  
GSK Unit #1  
Job Ticket: 59074      DST#: 2  
Test Start: 2014.06.26 @ 10:00:26

### GENERAL INFORMATION:

Formation: **Myric Station**  
Deviated: No Whipstock:                  ft (KB)  
Time Tool Opened: 12:26:00  
Time Test Ended: 14:59:26  
Interval: **4555.00 ft (KB) To 4611.00 ft (KB) (TVD)**  
Total Depth: 4790.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Straddle (Reset)  
Tester: Shane McBride  
Unit No: 55  
Reference Elevations: 3201.00 ft (KB)  
3196.00 ft (CF)  
KB to GR/CF: 5.00 ft

Serial #: **8353** Below (Straddle)  
Press@RunDepth:                  psig @ 4630.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.06.26      End Date: 2014.06.26      Last Calib.: 2014.06.26  
Start Time: 10:00:23      End Time: 14:59:08      Time On Btm:  
Time Off Btm:

TEST COMMENT: Packers Failed @ open , reset failed again , pull tool



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

Recovery		
Length (ft)	Description	Volume (bbl)
195.00	mud 100% m	2.74

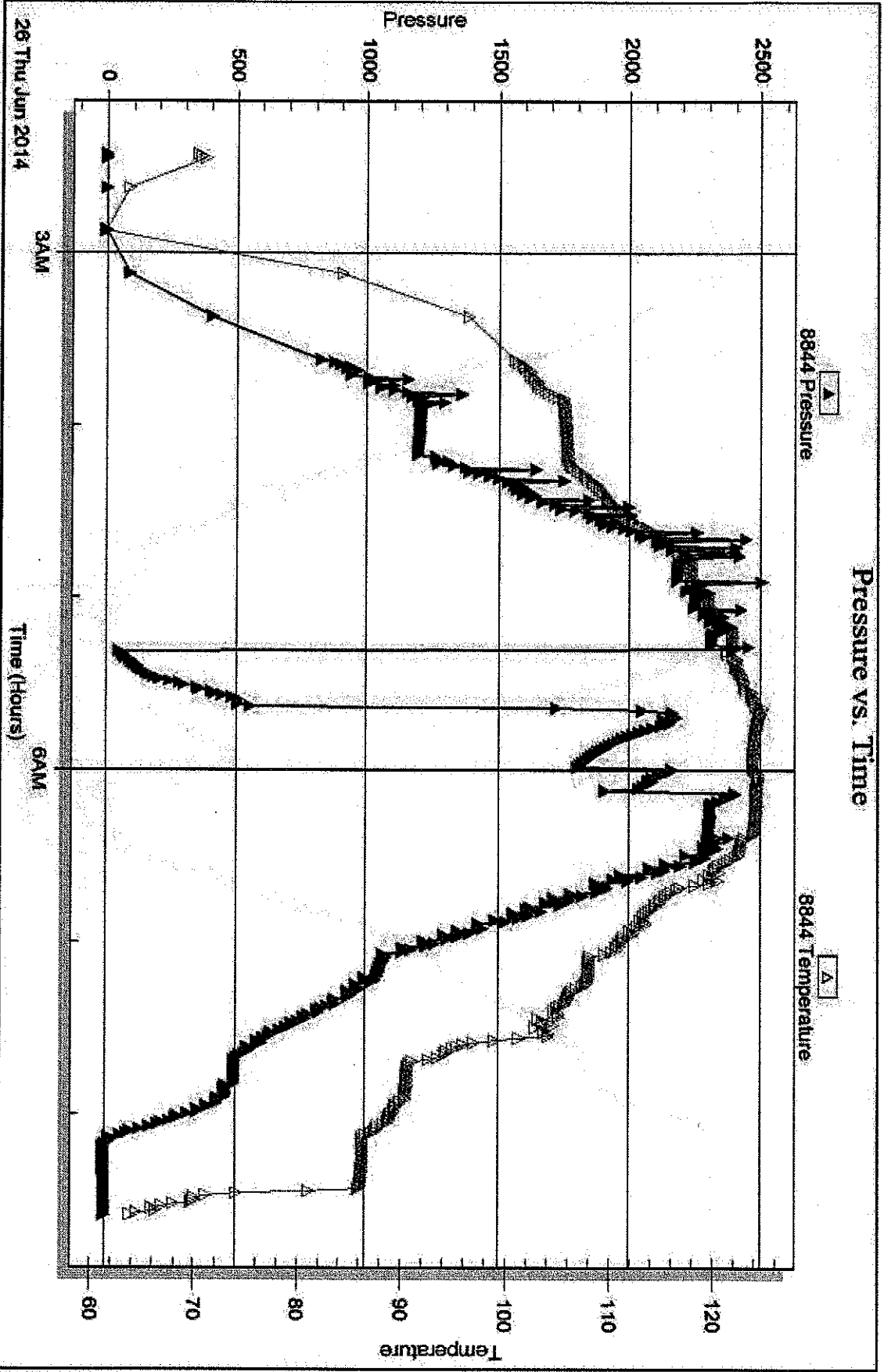
Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)

Serial #: 8944

Outside: Castle Resources Inc

GSK Unit #1

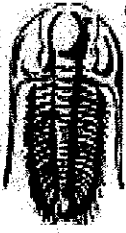
DST Test Number: 1



Tribble Testing, Inc

Ref. No: 59074

Printed: 2014.06.30 @ 09:25:39



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Castle Resources Inc  
PO Box 87  
Schoenchen, KS 67667-0087  
ATTN: Jerry Green

13-9s-34w Thomas,KS  
GSK Unit #1  
Job Ticket: 59074      **DST#: 2**  
Test Start: 2014.06.26 @ 10:00:26

## Mud and Cushion Information

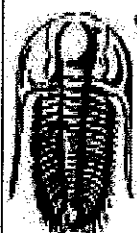
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 23.86 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 18000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
195.00	mud 100% m	2.735

Total Length: 195.00 ft      Total Volume: 2.735 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT** **FLUID SUMMARY**

Castle Resources Inc PO Box 87 Schoenchen, KS 67667-0087 ATTN: Jerry Green	<b>13-9s-34w Thomas,KS</b> <b>GSK Unit #1</b> Job Ticket: 59074 <b>DST#: 1</b> Test Start: 2014.06.26 @ 02:25:30
-------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------

**Mud and Cushion Information**

Mud Type: Gel Chem Mud Weight: 10.00 lb/gal Viscosity: 53.00 sec/qt Water Loss: 23.89 in <sup>3</sup> Resistivity: 0.00 ohm.m Salinity: 18000.00 ppm Filter Cake: 1.00 inches	Cushion Type: Cushion Length: ft Cushion Volume: bbl Gas Cushion Type: Gas Cushion Pressure: psig	Oil API: 0 deg API Water Salinity: 0 ppm
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------	---------------------------------------------

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
900.00	mud 100% m	12.625

Total Length: 900.00 ft      Total Volume: 12.625 bbl

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

Laboratory Name:      Laboratory Location:

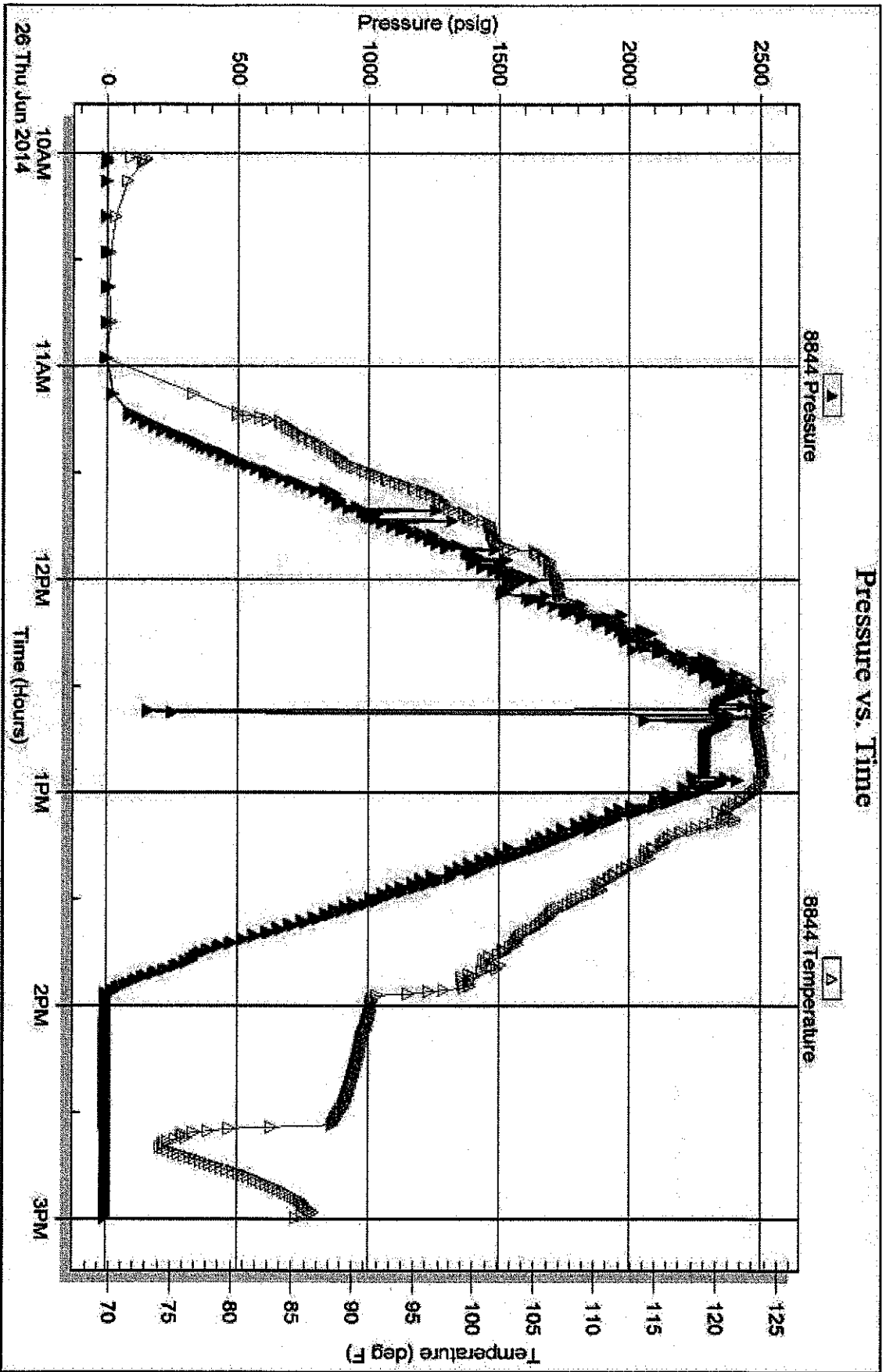
Recovery Comments:

Serial #: 8844

Outside: Castle Resources Inc

GSK Unit #1

DST Test Number: 2



Tribofile Testing, Inc

Ref. No: 59074

Printed: 2014.06.30 @ 09:24:48



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Castle Resources Inc  
 PO Box 87  
 Schoenchen, KS 67667-0087  
 ATTN: Jerry Green

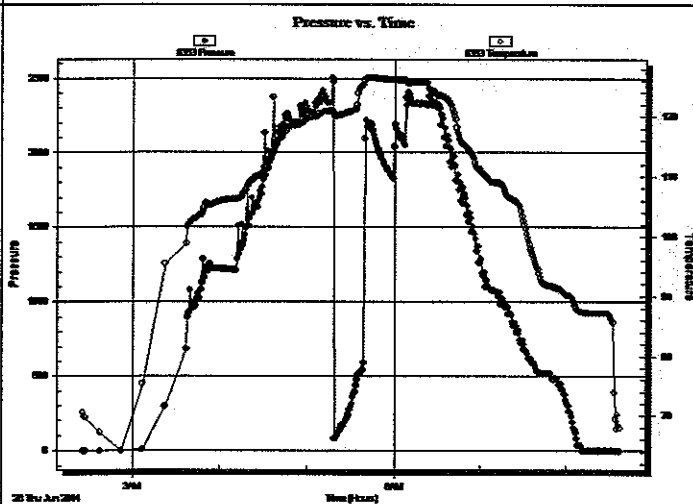
13-9s-34w Thomas, KS  
**GSK Unit #1**  
 Job Ticket: 59074      **DST#: 1**  
 Test Start: 2014.06.26 @ 02:25:30

**GENERAL INFORMATION:**

Formation: **Myric Station**  
 Deviated: No Whipstock:      ft (KB)  
 Test Type: Conventional Straddle (Initial)  
 Time Tool Opened: 05:19:00      Tester: Shane McBride  
 Time Test Ended: 08:40:30      Unit No: 55  
 Interval: 4550.00 ft (KB) To 4620.00 ft (KB) (TVD)      Reference Elevations: 3201.00 ft (KB)  
 Total Depth: 4790.00 ft (KB) (TVD)      3196.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8353      Below (Straddle)**  
 Press@RunDepth:      psig @ 4630.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.06.26      End Date: 2014.06.26      Last Calib.: 2014.06.26  
 Start Time: 02:25:34      End Time: 08:37:34      Time On Btm:  
                                                                                                                          Time Off Btm:

**TEST COMMENT:** mud was dropping slowly throughout open B.O.B. in 7 min. going around packers  
 Shut tool in after 20 min. mud did not drop pull tool

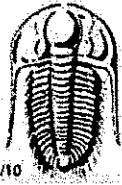


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
900.00	mud 100% m	12.62

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





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59074

Well Name & No. GSK Unit #1 Test No. #1 Date 6/24/14  
 Company Castle Resources, Inc. Elevation 3207 KB 3196 GL  
 Address Box 87, Schoerchen, KS 67607-0087  
 Co. Rep / Geo. Jerry Green Rig White Knight  
 Location: Sec. 13 Twp. 9 Rge. 34 Co. Thomas State KS

Interval Tested 4550 4120 Zone Tested Myers Station  
 Anchor Length 70 Drill Pipe Run 4552 Mud Wt. 9.8  
 Top Packer Depth 4545 4350 Side Drill Collars Run — Vis 53  
 Bottom Packer Depth 4550 4120 Wt. Pipe Run — WL 24.0  
 Total Depth 170' Drill Pipe 4790 Chlorides 12,000 ppm System LCM #1 1/2  
 Blow Description Mud slowly dropped throughout open  
Shut deal in 4 mud did not drop (5 low packer) End we pull tool

Rec	Feet of	%gas	%oil	%water	%mud
900'	Mud				100%

Rec Total 900' BHT 125' Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic  Test 1050 T-On Location 01:30  
 (B) First Initial Flow  Jars — T-Started 02:25  
 (C) First Final Flow  Safety Joint — T-Open 05:18  
 (D) Initial Shut-In  Circ Sub 1500 T-Pulled 06:10  
 (E) Second Initial Flow  Hourly Standby — T-Out 08:45  
 (F) Second Final Flow  Mileage 13.5 120rt 186 Comments —  
 (G) Final Shut-In  Sampler —  
 (H) Final Hydrostatic  Straddle 600  Ruined Shale Packer —  
 Shale Packer X2 500  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Initial Open 20  Extra Recorder — Sub Total 0  
 Initial Shut-In —  Day Standby — Total 2386  
 Final Flow —  Accessibility — MP/DST Disc't —  
 Final Shut-In — Sub Total 2386

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.

