

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs 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 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](mailto: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 <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 Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Castle Resources, Inc.
Well Name	STEINSHOUER 3
Doc ID	1369114

Tops

Name	Top	Datum
Anhydrite	2433-246	+393
Howard	3580	-757
Topeka	3666	-843
Heebner	3877	-1054
Toronto	3900	-1077
LKC	3914	-1091
BKC	4155	-1332
Ft. Scott	4350	-1527
Mississippi	4468	-1645
RTD	4523	1700



# GLOBAL OIL FIELD SERVICES, LLC

3100

REMIT TO 24 S. Lincoln  
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>9-23-17</u>	SEC. <u>3k</u>	TWP. <u>4</u>	RANGE <u>29 W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>SACASHOUR</u>	WELL# <u>3</u>	LOCATION <u>S. west of Hoxie KS 3 1/2 S</u>		COUNTY <u>Shelby</u>	STATE <u>KS</u>		
OLD OR NEW (CIRCLE ONE) <u>8</u>		WISCONSIN					

CONTRACTOR White Knight Drilling Rig #1 OWNER Castle Res

TYPE OF JOB Surface

HOLE SIZE 12 1/8 T.D. 275'

CASING SIZE 8 5/8 DEPTH

TUBING SIZE 5 1/2 DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX. MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS

DISPLACEMENT

EQUIPMENT

PUMP TRUCK CEMENTER

# 417 HELPER Cody

BULK TRUCK

# 410 DRIVER Tom

BULK TRUCK

# DRIVER

CEMENT AMOUNT ORDERED 200 SLS, 3% GEL

2% GEL

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

Ran 7 hrs of 8 5/8 casing hooked up  
pumped and circulated hooked to tank  
pumped 200 SLS of cement circulated to surface  
Adjusted height of H2O and start in

CHARGE TO: Castle Res

STREET

CITY STATE ZIP

Global Oil Field 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 Terry Austin

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

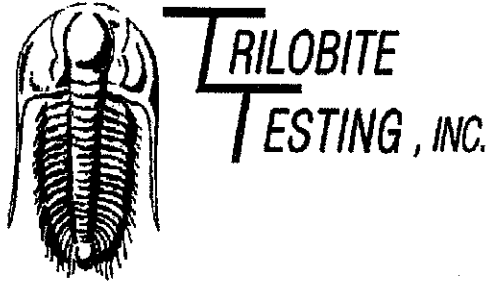
TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS





## DRILL STEM TEST REPORT

Prepared For: **Castle Resources Inc**

PO Box 583  
Russell, KS 67665

ATTN: Jerry Green

### **Steinshouer #3**

#### **34-8s-29w Sheridan KS**

Start Date: 2017.09.28 @ 02:57:00

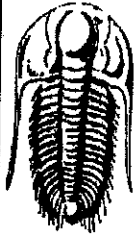
End Date: 2017.09.28 @ 10:59:45

Job Ticket #: 63310                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Castle Resources Inc

**34-8s-29w Sheridan KS**

PO Box 583  
Russell, KS 67665

**Steinshouer #3**

Job Ticket: 63310

**DST#: 1**

ATTN: Jerry Green

Test Start: 2017.09.28 @ 02:57:00

**GENERAL INFORMATION:**

Formation: **Howard**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 05:06:15  
Time Test Ended: 10:59:45

Test Type: Conventional Bottom Hole (Initial)  
Tester: James Winder  
Unit No: 83

Interval: **3568.00 ft (KB) To 3663.00 ft (KB) (TVD)**  
Total Depth: 3663.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2822.00 ft (KB)  
2817.00 ft (CF)  
KB to GR/CF: 5.00 ft

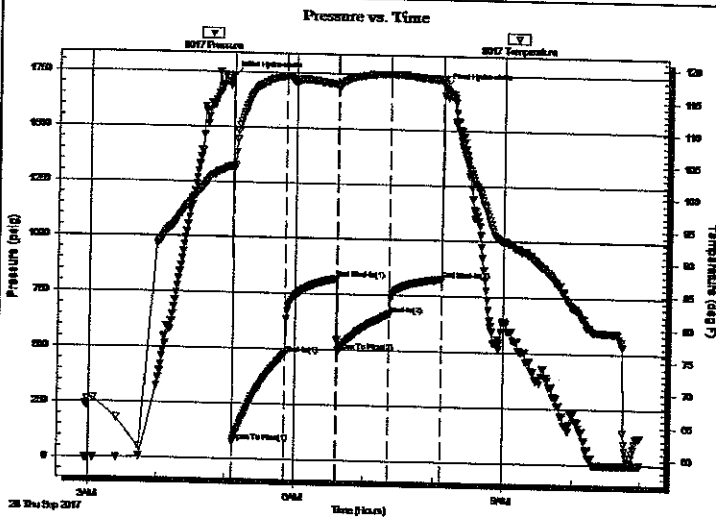
**Serial #: 8017**

**Outside**

Press@RunDepth: 666.40 psig @ 3569.00 ft (KB)  
Start Date: 2017.09.28 End Date: 2017.09.28  
Start Time: 02:57:05 End Time: 10:59:44

Capacity: 8000.00 psig  
Last Calib.: 2017.09.28  
Time On Btm: 2017.09.28 @ 05:05:30  
Time Off Btm: 2017.09.28 @ 08:08:00

**TEST COMMENT:** 45 - IF: Blow built to BOB (11") at 1 1/2 min.  
45 - IS: Very weak intermittent surface blow back  
45 - FF: Blow built to BOB at 3 3/4 min.  
45 - FS: Weak surface blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1735.21	104.08	Initial Hydro-static
1	78.36	103.75	Open To Flow (1)
46	480.11	118.27	Shut-In(1)
91	820.17	117.15	End Shut-In(1)
92	496.21	116.98	Open To Flow (2)
136	666.40	118.81	Shut-In(2)
181	825.37	117.97	End Shut-In(2)
183	1696.85	117.51	Final Hydro-static

**Recovery**

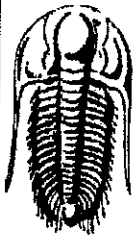
Length (ft)	Description	Volume (bbl)
541.00	Water w/Oil spots 94%w, 5%m, 1%o	7.59
63.00	OMCW 68%w, 20%m, 8%o, 5%g	0.88
756.00	GOMCW 38%w, 13%FO, 13%oil mx, 2%10.60%g	
33.00	MWCGO 71%o, 12%g, 11%w, 6%m	0.46
37.00	CO 94%o, 6%g	0.52

**Gas Rates**

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Castle Resources Inc

**34-8s-29w Sheridan KS**

PO Box 583  
Russell, KS 67665

**Steinshouer #3**

Job Ticket: 63310

**DST#: 1**

ATTN: Jerry Green

Test Start: 2017.09.28 @ 02:57:00

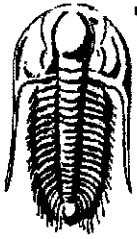
## Tool Information

Drill Pipe:	Length: 3551.00 ft	Diameter: 3.80 inches	Volume: 49.81 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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: 55000.00 lb
			<u>Total Volume: 49.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3568.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	95.00 ft			
Tool Length:	116.00 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			3548.00	
Shut In Tool	5.00			3553.00	
Hydraulic tool	5.00			3558.00	
Packer - Shale	0.00			3558.00	
Packer	5.00			3563.00	21.00 Bottom Of Top Packer
Packer	5.00			3568.00	
Packer - Shale	0.00			3568.00	
Stubb	1.00			3569.00	
Recorder	0.00	6625	Inside	3569.00	
Recorder	0.00	8017	Outside	3569.00	
Perforations	25.00			3594.00	
Blank Spacing	65.00			3659.00	
Perforations	1.00			3660.00	
Bullnose	3.00			3663.00	95.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>116.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Castle Resources Inc

**34-8s-29w Sheridan KS**

PO Box 583  
Russell, KS 67665

**Steinshouer #3**

Job Ticket: 63310

**DST#: 1**

ATTN: Jerry Green

Test Start: 2017.09.28 @ 02:57:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 8.00 lb/gal  
Viscosity: 68.00 sec/qt  
Water Loss: 6.39 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 21 deg API  
Water Salinity: 17000 ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
541.00	Water w/Oil spots 94%w, 5%m, 1%o	7.589
63.00	OMCW 68%w, 20%m, 8%o, 5%g	0.884
756.00	GOMCW 38%w, 13%FO, 13%oil mix, 21%g, 1%o	10.605
33.00	MVCGO 71%o, 12%g, 11%w, 6%m	0.463
37.00	CO 94%o, 6%g	0.519

Total Length: 1430.00 ft      Total Volume: 20.060 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

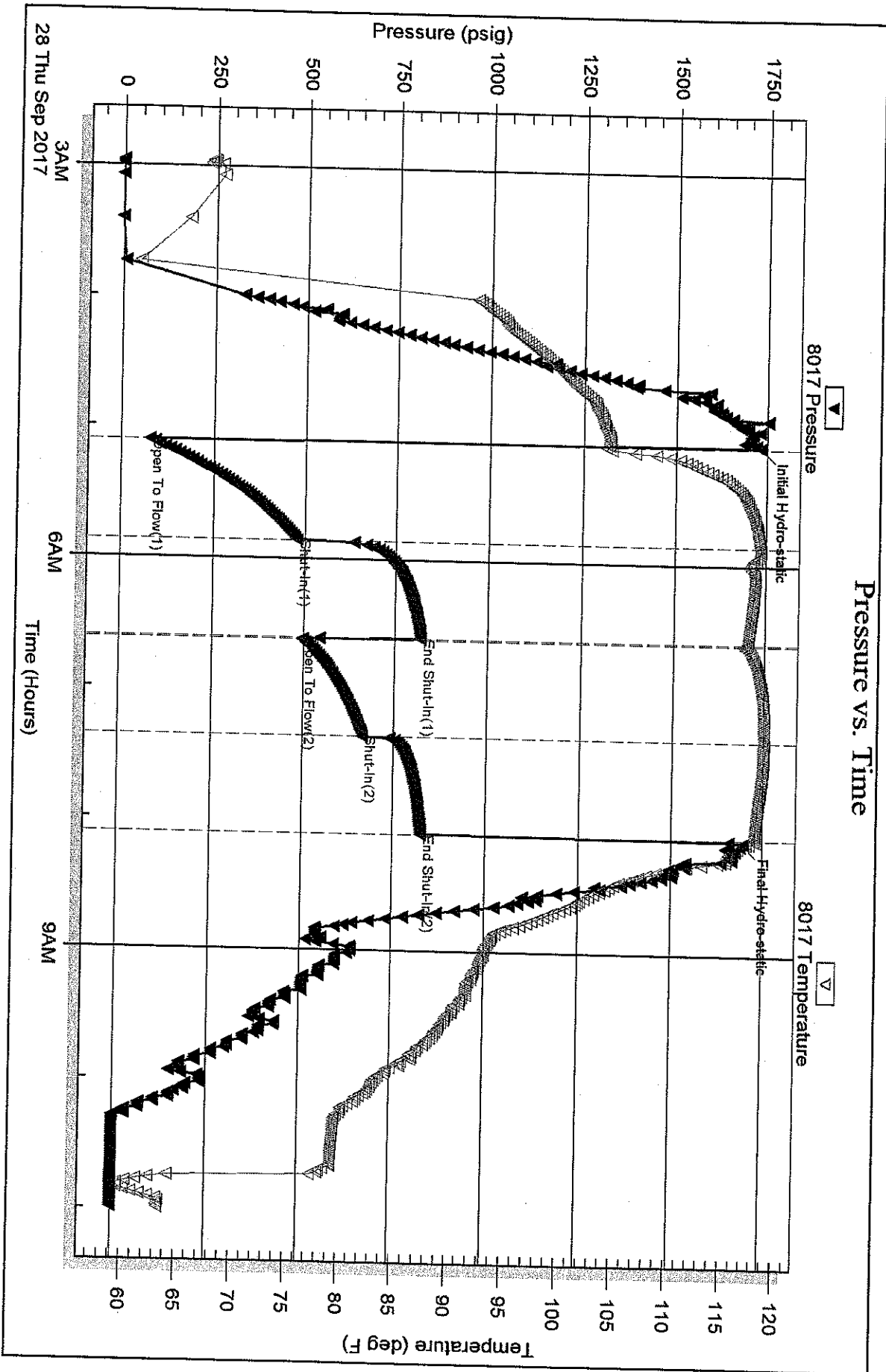
Recovery Comments: Gravity = 21.6 api @ 66 deg F Corrected Gravity = 21 api  
RW = .560 ohms @ 63.3 deg F Chlorides = 17,000 ppm

Serial #: 8017

Outside Castle Resources Inc

Steinsouer #3

DST Test Number: 1



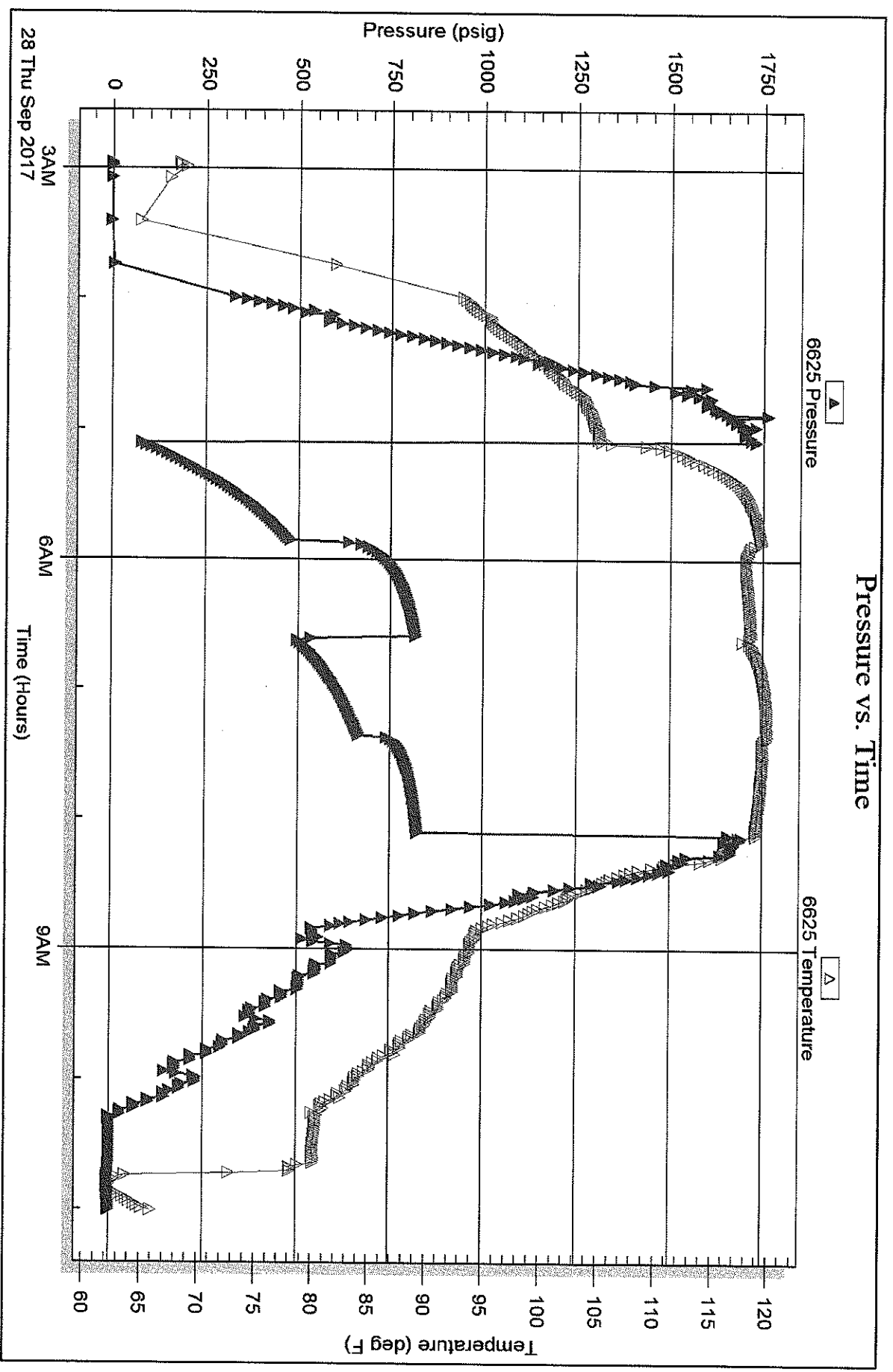
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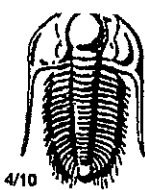
Inside

Castle Resources Inc

Steinshouer #3

DST Test Number: 1





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63310

Well Name & No. Steinshouer #3 Test No. 1 Date 9-28-17  
 Company Castle Resources Inc Elevation 2822 KB 2817 GL  
 Address PO Box #583 Russell, KS 67665  
 Co. Rep / Geo. Jerry Green Rig White Knight  
 Location: Sec. 34 Twp. 8s Rge. 29w Co. Sheridan State KS

Interval Tested 3568 - 3663 Zone Tested Howard  
 Anchor Length 95 Drill Pipe Run 3551 Mud Wt. 7.9  
 Top Packer Depth 3563 (shale) Drill Collars Run - Vis 68  
 Bottom Packer Depth 3568 (shale) Wt. Pipe Run - WL 6.4  
 Total Depth 3663 Chlorides 2000 ppm System LCM 1 1/2  
 Blow Description IF: Blow built to BOB (11") at 1 1/2 min.  
ISI: Very weak intermittent surface blowback  
FF: Blow built to BOB at 3 3/4 min.  
FST: weak surface blowback

Rec	Feet of	%gas	%oil	%water	%mud
37	CO	6	94	-	-
33	MWC60	12	71	11	6
756	GOMCW	21	13 <sup>free oil</sup>	38	15
63	OMCW	5	8 <sup>mixture</sup>	68	20
541	Water w/oil spots	-	1	94	5

Rec Total 1430 BHT 118 Gravity 21 API RW 560 @ 63.3 °F Chlorides 17,000 ppm  
 (A) Initial Hydrostatic 1735  Test 1050 T-On Location 1:10  
 (B) First Initial Flow 78  Jars \_\_\_\_\_ T-Started 2:57  
 (C) First Final Flow 480  Safety Joint \_\_\_\_\_ T-Open 5:06  
 (D) Initial Shut-In 820  Circ Sub \_\_\_\_\_ T-Pulled 8:06  
 (E) Second Initial Flow 496  Hourly Standby \_\_\_\_\_ T-Out 10:55  
 (F) Second Final Flow 666  Mileage 98RT 73.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 825  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1697  Straddle \_\_\_\_\_  
 Shale Packer X2 500  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1623.50  
 Sub Total 1623.50 MP/DST Disc't \_\_\_\_\_

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

Approved By [Signature]

Our Representative James Winder

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.

**GEOLOGIST'S REPORT** DRILLING TIME AND SAMPLE LOG  
COMPANY **CASTLE RESOURCES INC.** ELEVATIONS  
LEASE **STEINSHOUSER #3** KB 2823

FIELD **HOXIE WEST** DE  
LOCATION **C-SE-NE** GL 2817

SEC **34** TWP **8S** RGE **29W**  
COUNTY **SHELDON** STATE **KS.** Measurements Are All From KB.

CONTRACTOR **WHITE KNIGHT DRILG.** SURFACE **278**  
SPUD **9-23-17** COMP **10-1-17** PRODUCTION  
RTD **4525** LTD **4523** ELECTRICAL SURVEYS  
MUD **3400** TYPE **MUD CHEM.** DILIND MICRO

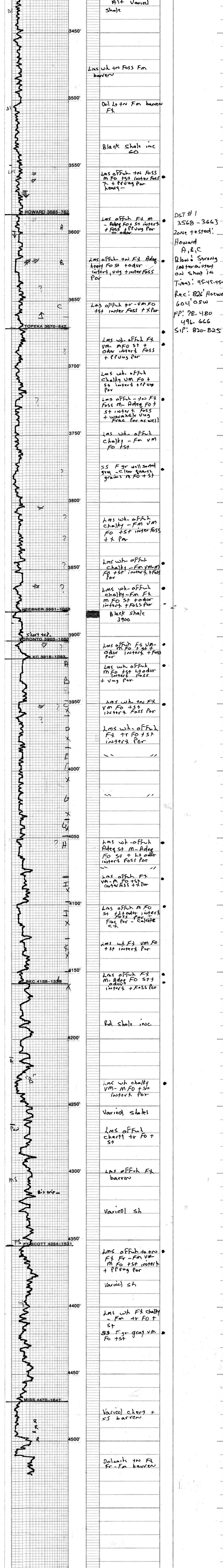
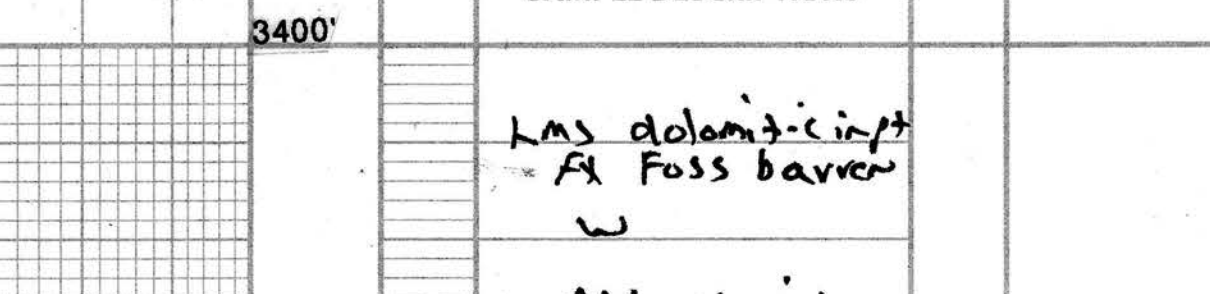
SAMPLES SAVED FROM **3400'** TO TD.  
DRILLING TIME KEPT FROM **3400'** TO TD.  
SAMPLES EXAMINED FROM **3400'** TO TD.

GEOLOGICAL SUPERVISION FROM **3400'** TO TD.  
GEOLOGIST ON WELL **9-27-17-10-1-17**

FORMATION TOPS	LOG	SAMPLES
ANHY.	2430-64-393	2433-68-390
HOWARD	3585-757	3585-762
TOPEKA	3870-847	3870-847
TOEBNER	3891-1081	3891-1083
LKC	3816-1083	3816-1083
BKC	4158-1332	4158-1335
FT. SCOTT	4354-1531	4354-1531
MISS.	4470-1647	4470-1647
RTD	4523-1700	4525-1702

REMARKS: All parties recommended that pipe be set and this well tested. Numerous pay zones are present. respectfully submitted

**LEGEND**



CONTRACTOR \_\_\_\_\_ LOCATION \_\_\_\_\_  
LEASE \_\_\_\_\_ IP \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_ RNG \_\_\_\_\_  
ELEVATION \_\_\_\_\_ RTD \_\_\_\_\_ COUNTY \_\_\_\_\_ STATE \_\_\_\_\_