



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1209675
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 |
|-----------------------------------|-----------------|---|

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: _____



1209675

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 <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 List All E. Logs Run: _____ | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum |
|--|---|

| 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: <input type="checkbox"/> Yes <input type="checkbox"/> No |
|----------------|--|---|

| | |
|---|--|
| Date of First, Resumed Production, SWD or ENHR. _____ | 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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

GLOBAL CEMENTING, L.L.C.

1340

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: Russell, KS

| | | | | | | | |
|----------------------------------|------------------|----------|-------|------------|------------------------|----------------------------|-----------------------------|
| DATE <u>5-22-14</u> | SEC. | TWP. | RANGE | CALLED OUT | ON LOCATION | JOB START <u>2:30am</u> | JOB FINISH <u>3:00am</u> |
| LEASE <u>Hudley</u> | WELL #. <u>1</u> | LOCATION | | | COUNTY <u>ETLIS</u> | STATE <u>KS</u> | |
| OLD OR <u>(NEW)</u> (CIRCLE ONE) | | | | | | | |

CONTRACTOR Skytop Drilling

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 223

CASING SIZE 8 5/8 DEPTH 21860

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 20 ft

PERFS

DISPLACEMENT

EQUIPMENT

PUMP TRUCK CEMENTER Heath

P1 HELPER Cody

BULK TRUCK

B4 DRIVER Brad - Eric

BULK TRUCK

DRIVER

OWNER

CEMENT AMOUNT ORDERED 150sx com 3% CC

2% gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

Run 5 JTS of 8 5/8 casing and landing it

Est Circulation with mud pump

Hook up and mix 150sx cement and disp

12 3/4 bbl H2O - Shul in @ 200 psi

Cement Ad Circulate

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 Thomas Engel

SIGNATURE Thomas Engel

Thank you good job

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE 12 x 2 @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

GLOBAL CEMENTING, L.L.C.

1353

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: Russell, KS

| | | | | | | | |
|--|----------------|----------|-------|------------|------------------------|----------------------------|-----------------------------|
| DATE <u>6-7-14</u> | SEC. | TWP. | RANGE | CALLED OUT | ON LOCATION | JOB START <u>8:30am</u> | JOB FINISH <u>9:30am</u> |
| LEASE <u>Hadley</u> | WELL# <u>1</u> | LOCATION | | | COUNTY <u>Ellis</u> | STATE <u>KS</u> | |
| <input checked="" type="radio"/> OLD OR NEW (CIRCLE ONE) | | | | | | | |

CONTRACTOR CO TOOLS
 TYPE OF JOB Port Collar
 HOLE SIZE _____ T.D. _____
 CASING SIZE 5 1/2 DEPTH _____
 TUBING SIZE 2 3/8 DEPTH 1344
 DRILL PIPE _____ DEPTH _____
 TOOL Port Collar DEPTH 1344
 PRES. MAX 800psi MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS _____
 DISPLACEMENT 3 bbl

EQUIPMENT
 PUMP TRUCK CEMENTER Heath
 # P1 HELPER Cody - Brad
 BULK TRUCK
 # B3 DRIVER Eric
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

Run tubing down to 1344' and found Port Collar - tested to 800psi - Held - opened and est circulation - mixed 275sx and also 3 bbl - Closed Port Collar tested to 800psi - Held - Run 5 JTS and wash clean come out of hole

Cement did circulate to surface about 50sx to Pit

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. Thank You!

PRINTED NAME _____
 SIGNATURE [Signature]

OWNER
 CEMENT AMOUNT ORDERED 275sx 60/40 6%gel
 COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 ASC _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING _____ @ _____
 MILEAGE _____ @ _____
 TOTAL _____

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 12x2 @ _____
 MANIFOLD _____ @ _____
 _____ @ _____
 TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL _____

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

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Fax 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 134

| | | | | | | | |
|---------|------|------|-------|--------|--------|-------------|---------|
| Date | Sec. | Twp. | Range | County | State | On Location | Finish |
| 5-29-14 | 32 | 11 | 12 | ELLIS | KANSAS | | 4:00 PM |

Location I-70 - Toulon EXIT No TO OPEN

| | | | |
|---------------------------------------|------------------|--|--|
| Lease | Well No. | Owner | |
| <u>HADLEY</u> | <u>#1</u> | <u>RANGE WEST @ GATE & 1/2 NE 1/4</u> | |
| Contractor | DAIG. Rig # | To Quality Oilwell Cementing, Inc. | |
| <u>SKY TOP</u> | <u>#1</u> | You are hereby requested to rent cementing equipment and furnish | |
| Type Job | | cement and helper to assist owner or contractor to do work as listed. | |
| <u>PRODUCTION STRING w/ P.C. Tool</u> | | | |
| Hole Size | T.D. | Charge To | |
| <u>7 7/8</u> | <u>3685'</u> | <u>CASTLE RESOURCES INC.</u> | |
| Csg. | Depth | Street | |
| <u>5 1/2 New</u> | <u>3683'</u> | | |
| Tbg. Size | Depth | City | |
| <u>14 # CSG.</u> | | State | |
| Tool | Depth | The above was done to satisfaction and supervision of owner agent or contractor. | |
| <u>LATCH DOWN PLUG ASSY</u> | <u>3667'</u> | | |
| Cement Left in Csg. | Shoe Joint | Cement Amount Ordered | |
| <u>16" 10'</u> | <u>16 FT</u> | <u>180 SX Q-PRO-C</u> | |
| Meas Line | Displace | <u>10% salt 5% gilsonite</u> | |
| | <u>89.48 BBL</u> | Common <u>180 pro-c</u> | |

EQUIPMENT

| | | | | |
|---------|-----|----------|----------------|----------|
| Pumptrk | No. | Cementer | | Poz. Mix |
| | | Helper | <u>Glen G.</u> | |
| Bulktrk | No. | Driver | <u>COY B.</u> | Gel. |
| | | Driver | <u>DOUG H.</u> | Calcium |
| Bulktrk | No. | Driver | | |
| | | Driver | | |

JOB SERVICES & REMARKS

| | |
|-------------------------------------|-----------------------------|
| Remarks: | Hulls |
| | Salt <u>16</u> |
| Rat Hole | Flowseal |
| <u>RAT</u> Hole <u>30 SX</u> | Kol-Seal <u>900#</u> |
| Centralizers <u>1, 3, 5, 5'</u> | Mud CLR 48 <u>X 500 Gal</u> |
| Baskets <u>56</u> | CFL-117 or CD110 CAF 38 |
| D/V of Port Collar <u>56 @ 1344</u> | Sand |
| | Handling <u>205</u> |
| | Mileage |

Run 88 New JOINTS OF 14" CSG.
Set @ 3683, Received Circ-
ulation, DROP AFW Ball,
Circulate 3/4 HR, oil Bottom.

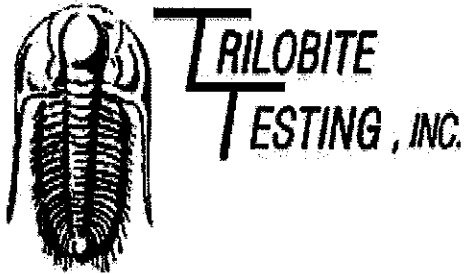
FLOAT EQUIPMENT

| | |
|--------------------------------------|-----------------------------------|
| Pump 500 GAL Mud-Flush, | Guide Shoe X <u>1</u> Port Collar |
| Mixed 150 SX Q-PRO-C. | Centralizer X <u>(4)</u> TURBO |
| Clear Line, Release LATCH | Baskets X <u>(1)</u> |
| DN. Plug. + Displace 89.2 BBL | AFU Inserts |
| H ₂ O, LAND Plug @ 1400 # | Float Shoe X <u>(1)</u> |
| Release Pressure & FLOAT-Plug- | Latch Down X <u>(1)</u> |
| HebD. | Pumptrk Charge <u>prod string</u> |
| | Mileage <u>15</u> |

THANK'S

X Signature [Signature]

| |
|--------------|
| Tax |
| Discount |
| Total Charge |



DRILL STEM TEST REPORT

Prepared For: **Castle Resources Inc**

PO Box 87
Schoenchen KS 67667-0087

ATTN: Jerry Green

Hadley #1

32-11s-17w Ellis,KS

Start Date: 2014.05.28 @ 04:58:00

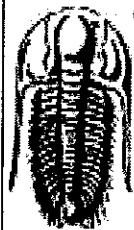
End Date: 2014.05.28 @ 10:48:00

Job Ticket #: 58872 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.05.29 @ 14:19:43

Castle Resources Inc 32-11s-17w Ellis,KS Hadley #1 DST # 1 Arbuckle 2014.05.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

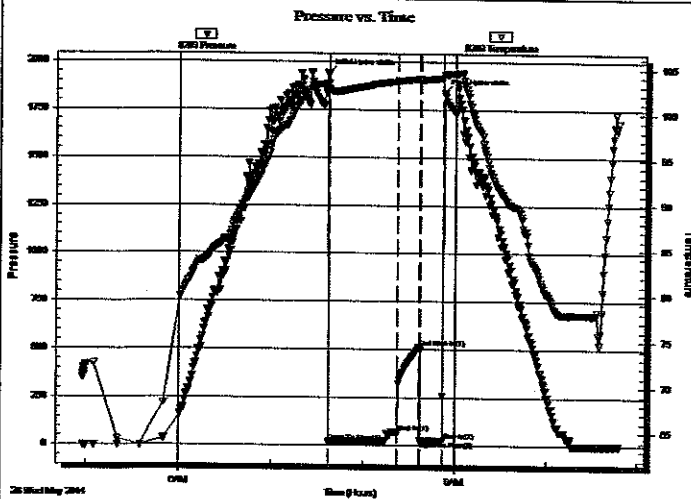
32-11s-17w Ellis,KS
Hadley #1
Job Ticket: 58872 **DST#: 1**
Test Start: 2014.05.28 @ 04:58:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:37:00
Time Test Ended: 10:48:00
Interval: **3578.00 ft (KB) To 3620.00 ft (KB) (TVD)**
Total Depth: 3685.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Straddle (Initial)
Tester: Jim Svaty
Unit No: 76
Reference Elevations: 2107.00 ft (KB)
2102.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8289 Outside
Press@RunDepth: 69.50 psig @ 3583.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.05.28 End Date: 2014.05.28 Last Calib.: 2014.05.28
Start Time: 04:58:02 End Time: 10:48:00 Time On Btm: 2014.05.28 @ 07:36:45
Time Off Btm: 2014.05.28 @ 08:52:45

TEST COMMENT: 30-IFP- 1/4in. Blow Died in 13 min.
30-ISIP- No Blow
15-FFP- Good Surge on Open No Blow
Pulled



PRESSURE SUMMARY

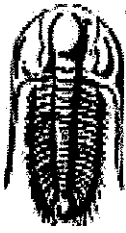
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1937.46 | 103.41 | Initial Hydro-static |
| 1 | 17.47 | 102.73 | Open To Flow (1) |
| 46 | 69.50 | 103.52 | Shut-In(1) |
| 60 | 513.56 | 103.85 | End Shut-In(1) |
| 61 | 25.98 | 103.68 | Open To Flow (2) |
| 75 | 27.51 | 103.91 | Shut-In(2) |
| 76 | 1838.78 | 104.30 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00 | Mud 100% | 0.02 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

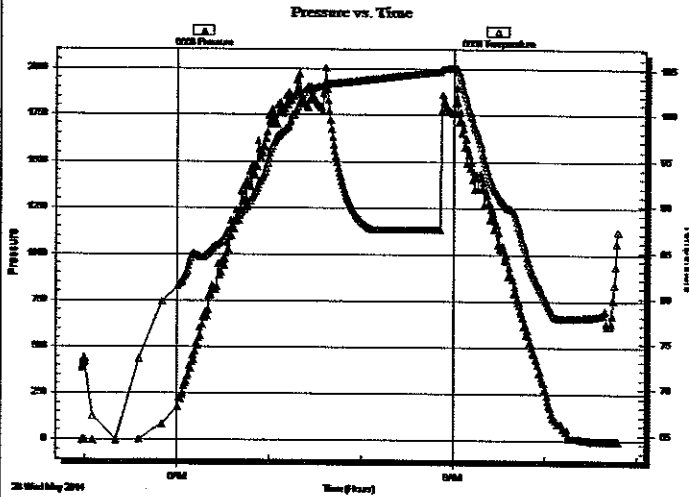
32-11s-17w Ellis,KS
Hadley #1
 Job Ticket: 58872 **DST#: 1**
 Test Start: 2014.05.28 @ 04:58:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:37:00
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 Tester: Jim Svaty
 Unit No: 76
 Interval: **3578.00 ft (KB) To 3620.00 ft (KB) (TVD)**
 Total Depth: 3685.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 2107.00 ft (KB)
 2102.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6668 Below (Straddle)
 Press@RunDepth: psig @ 3623.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.28 End Date: 2014.05.28 Last Calib.: 2014.05.28
 Start Time: 04:58:02 End Time: 10:47:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP- 1/4in. Blow Died in 13 min.
 30-ISIP- No Blow
 15-FFP- Good Surge on Open No Blow
 Pulled



PRESSURE SUMMARY

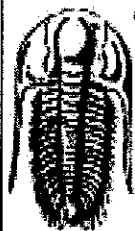
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
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Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00 | Mud 100% | 0.02 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

32-11s-17w Ellis,KS
Hadley #1
 Job Ticket: 58872 **DST#: 1**
 Test Start: 2014.05.28 @ 04:58:00

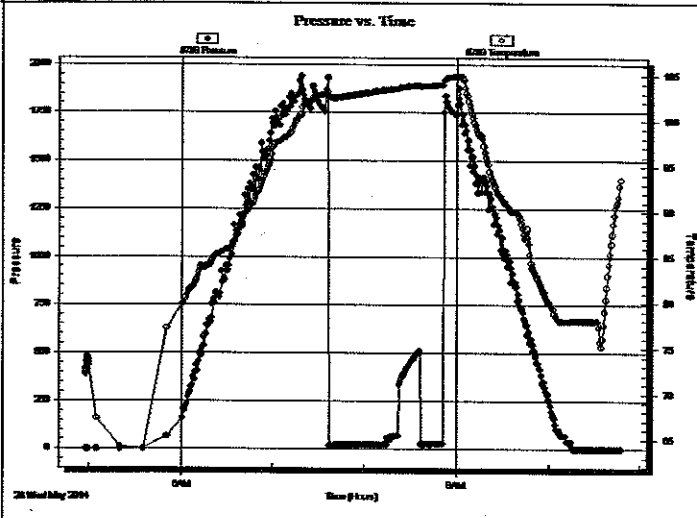
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 Reference Elevations: 2107.00 ft (KB)
 Total Depth: 3685.00 ft (KB) (TVD) 2102.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8789 Inside

Press@RunDepth: psig @ 3583.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.28 End Date: 2014.05.28 Last Calib.: 2014.05.28
 Start Time: 04:58:02 End Time: 10:47:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP- 1/4in. Blow Died in 13 min.
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 Pulled



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00 | Mud 100% | 0.02 |
| | | |
| | | |
| | | |
| | | |

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 67667-0087
 ATTN: Jerry Green

32-11s-17w Ellis,KS
Hadley #1
 Job Ticket: 58872 **DST#: 1**
 Test Start: 2014.05.28 @ 04:58:00

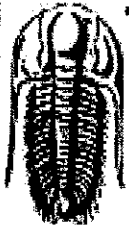
Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3435.00 ft | Diameter: 3.80 inches | Volume: 48.18 bbl | Tool Weight: 2500.00 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: 145.00 ft | Diameter: 2.25 inches | Volume: 0.71 bbl | Weight to Pull Loose: 57000.00 lb |
| | | | Total Volume: 48.89 bbl | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 23.00 ft | | | String Weight: Initial 54000.00 lb |
| Depth to Top Packer: | 3578.00 ft | | | Final 54000.00 lb |
| Depth to Bottom Packer: | 3620.00 ft | | | |
| Interval between Packers: | 42.00 ft | | | |
| Tool Length: | 128.00 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 | | | 3558.00 | |
| Shut In Tool | 5.00 | | | 3563.00 | |
| Hydraulic tool | 5.00 | | | 3568.00 | |
| Packer | 5.00 | | | 3573.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3578.00 | |
| Stubb | 1.00 | | | 3579.00 | |
| Perforations | 3.00 | | | 3582.00 | |
| Change Over Sub | 1.00 | | | 3583.00 | |
| Recorder | 0.00 | 8789 | Inside | 3583.00 | |
| Recorder | 0.00 | 8289 | Outside | 3583.00 | |
| Blank Spacing | 31.00 | | | 3614.00 | |
| Change Over Sub | 1.00 | | | 3615.00 | |
| Perforations | 1.00 | | | 3616.00 | |
| Blank Off Sub | 1.00 | | | 3617.00 | |
| Blank Spacing | 3.00 | | | 3620.00 | 42.00 Tool Interval |
| Packer | 1.00 | | | 3621.00 | |
| Perforations | 1.00 | | | 3622.00 | |
| Change Over Sub | 1.00 | | | 3623.00 | |
| Recorder | 0.00 | 6668 | Below | 3623.00 | |
| Blank Spacing | 62.00 | | | 3685.00 | 65.00 Bottom Packers & Anchor |

Total Tool Length: 128.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

32-11s-17w Ellis,KS
Hadley #1
Job Ticket: 58872 **DST#: 1**
Test Start: 2014.05.28 @ 04:58:00

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: 60.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 11.12 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 8000.00 ppm | | | |
| Filter Cake: 2.50 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 5.00 | Mud 100% | 0.025 |

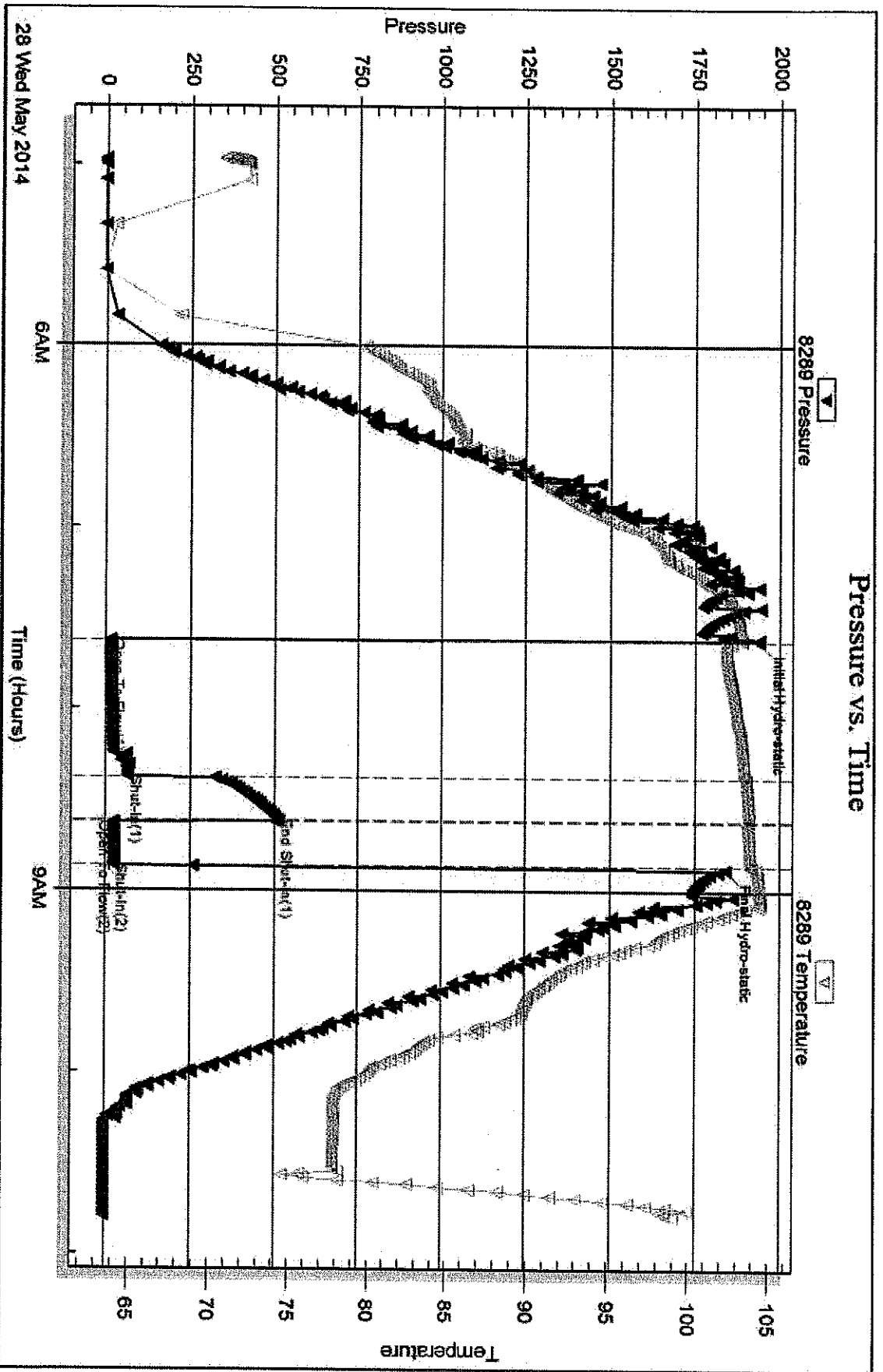
Total Length: 5.00 ft Total Volume: 0.025 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8289

Outside Castle Resources Inc

Headley #1

DST Test Number: 1



Treoble Testing, Inc

Ref. No: 58872

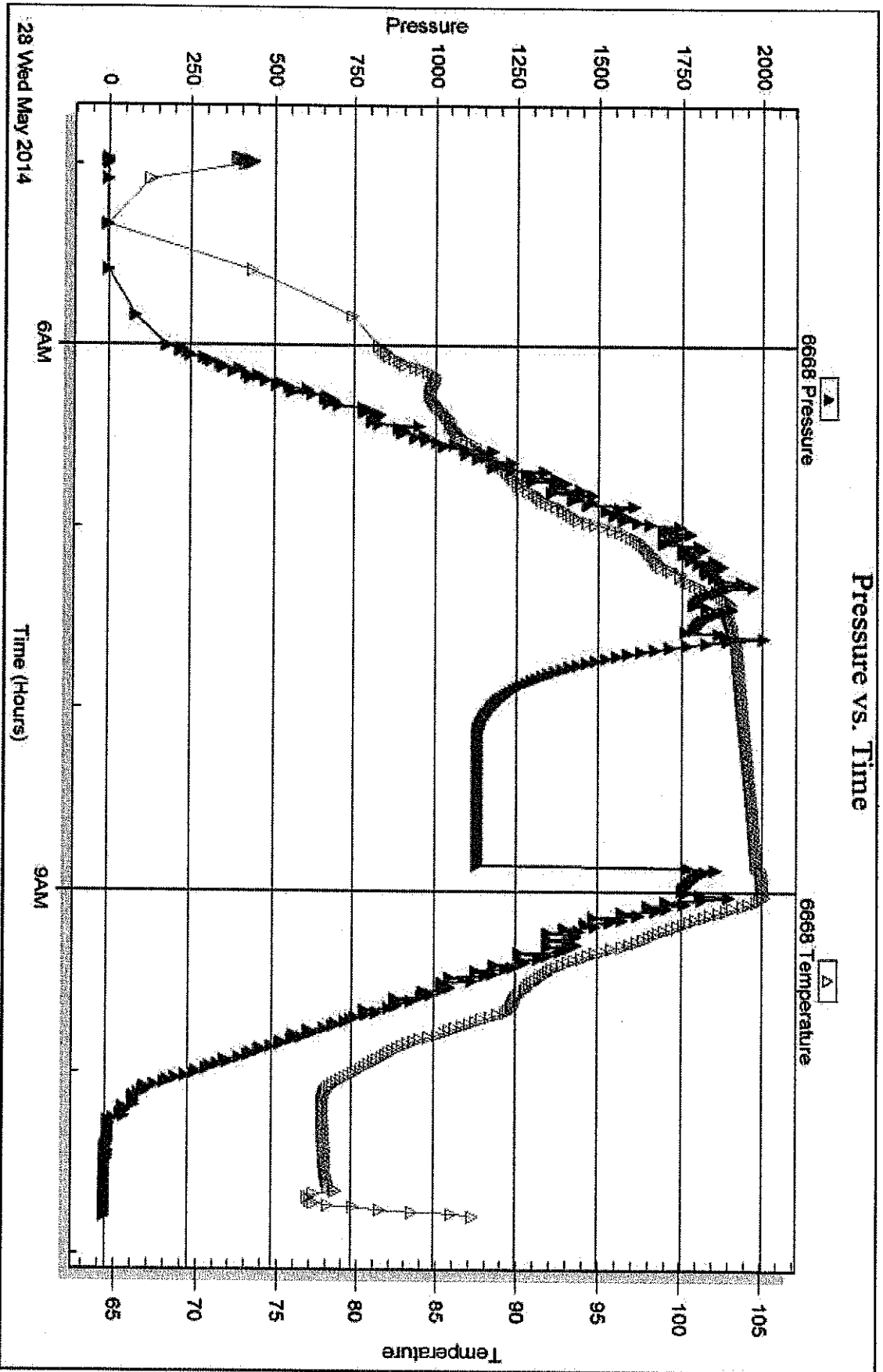
Printed: 2014.05.29 @ 14:19:44

Serial #: 6668

Below (Stratified) Resources Inc

Hadley #1

DST Test Number: 1



Throttle Testing, Inc

Ref. No: 58872

Printed: 2014.05.29 @ 14:15:44

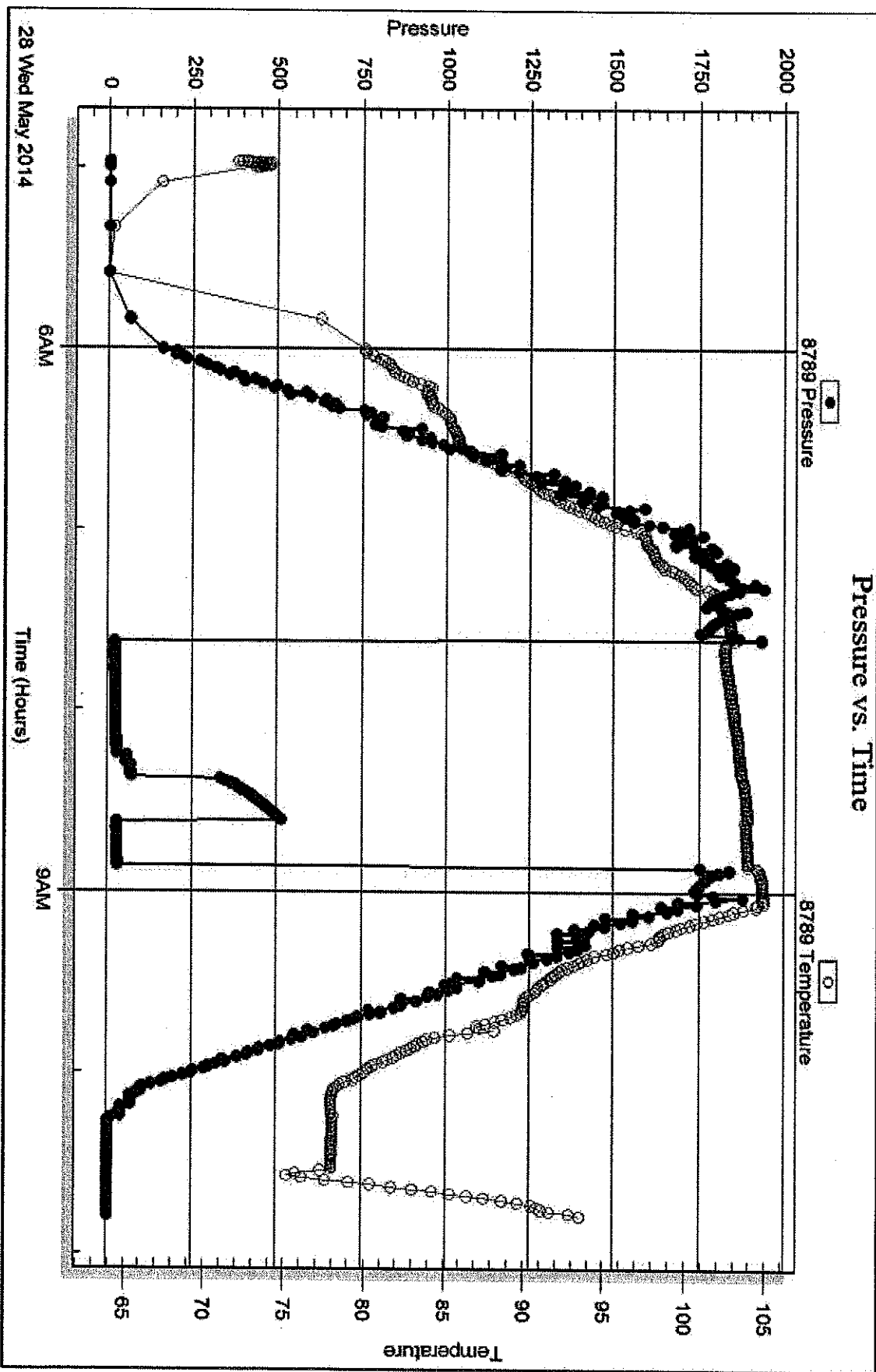
Serial #: 8789

Inside

Castle Resources Inc.

Hadley #1

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 58872

Printed: 2014.05.29 @ 14:19:45



DRILL STEM TEST REPORT

Prepared For: **Castle Resources Inc**

PO Box 87
Schoenchen KS 67667-0087

ATTN: Jerry Green

Hadley #1

32-11s-17w Ellis,KS

Start Date: 2014.05.28 @ 11:36:00

End Date: 2014.05.28 @ 18:24:00

Job Ticket #: 58873 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.29 @ 14:19:17

Castle Resources Inc 32-11s-17w Ellis,KS Hadley #1 DST #2 Arbuckle 2014.05.28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

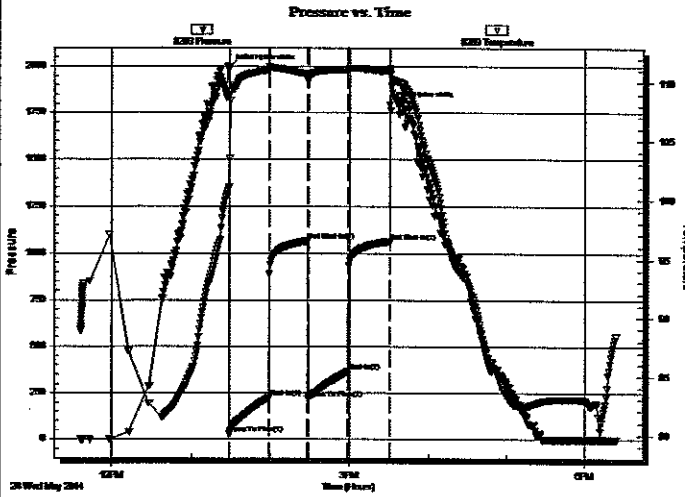
32-11s-17w Ellis, KS
Hadley #1
Job Ticket: 58873 **DST#: 2**
Test Start: 2014.05.28 @ 11:36:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:29:00
Time Test Ended: 18:24:00
Interval: **3640.00 ft (KB) To 3648.00 ft (KB) (TVD)**
Total Depth: 3685.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Straddle (Reset)
Tester: Jim Svaty
Unit No: 76
Reference Elevations: 2107.00 ft (KB)
2102.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8289 Outside
Press@RunDepth: 364.25 psig @ 3641.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.05.28 End Date: 2014.05.28 Last Calib.: 2014.05.28
Start Time: 11:36:02 End Time: 18:24:00 Time On Btm: 2014.05.28 @ 13:28:45
Time Off Btm: 2014.05.28 @ 15:30:15

TEST COMMENT: 30-IFP- BOB in 6 min.
30-ISIP- No Blow
30-FFP- BOB in 7 min.
30-FSIP- No Blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1992.18 | 101.03 | Initial Hydro-static |
| 1 | 26.65 | 101.04 | Open To Flow (1) |
| 31 | 224.35 | 111.08 | Shut-In(1) |
| 60 | 1064.70 | 110.69 | End Shut-In(1) |
| 60 | 221.34 | 110.15 | Open To Flow (2) |
| 90 | 364.25 | 111.02 | Shut-In(2) |
| 121 | 1061.50 | 110.91 | End Shut-In(2) |
| 122 | 1793.40 | 111.06 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---|--------------|
| 145.00 | MCW 5% _m 95% _w Show of Oil | 0.71 |
| 594.00 | OMCW 1% _o 5% _m 94% _w | 8.33 |
| 44.00 | OSWCM 1% _o 10% _w 89% _m | 0.62 |
| 1.00 | MWCO 10% _w 10% _m 80% _o | 0.01 |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mc/d) |
|----------------|-----------------|-----------------|
| | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

32-11s-17w Ellis,KS
Hadley #1
Job Ticket: 58873 **DST#: 2**
Test Start: 2014.05.28 @ 11:36:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:29:00
Time Test Ended: 18:24:00
Interval: **3640.00 ft (KB) To 3648.00 ft (KB) (TVD)**
Total Depth: 3685.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

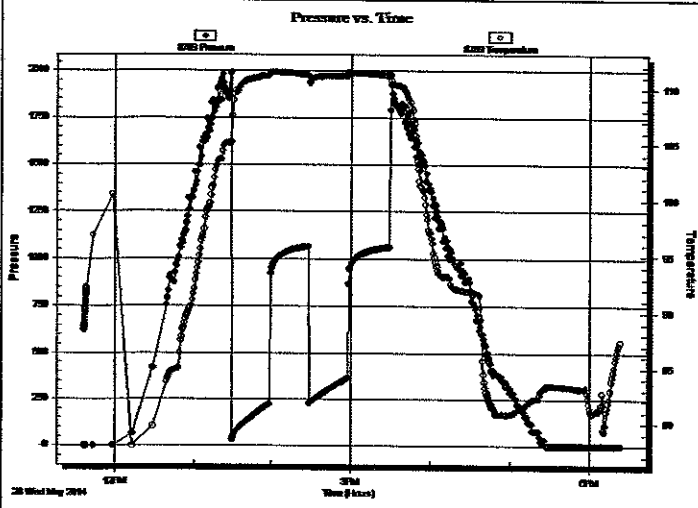
Test Type: Conventional Straddle (Reset)
Tester: Jim Svaty
Unit No: 76
Reference Elevations: 2107.00 ft (KB)
2102.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8789

Inside

Press@RunDepth: psig @ 3641.00 ft (KB)
Start Date: 2014.05.28 End Date: 2014.05.28
Start Time: 11:36:02 End Time: 18:23:45
Capacity: 8000.00 psig
Last Calib.: 2014.05.28
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP- BOB in 6 min.
30-ISIP- No Blow
30-FFP- BOB in 7 min.
30-FSIP- No Blow



PRESSURE SUMMARY

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

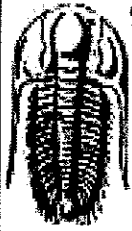
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---|--------------|
| 145.00 | MCW 5% <i>m</i> 95% <i>w</i> Show of Oil | 0.71 |
| 594.00 | OMCW 1% <i>o</i> 5% <i>m</i> 94% <i>w</i> | 8.33 |
| 44.00 | OSWCM 1% <i>o</i> 10% <i>w</i> 89% <i>m</i> | 0.62 |
| 1.00 | MWCO 10% <i>w</i> 10% <i>m</i> 80% <i>o</i> | 0.01 |
| | | |

* 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 67667-0087
 ATTN: Jerry Green

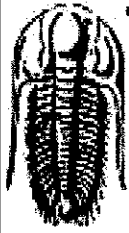
32-11s-17w Ellis,KS
Hadley #1
 Job Ticket: 58873 **DST#: 2**
 Test Start: 2014.05.28 @ 11:36:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3495.00 ft | Diameter: 3.80 inches | Volume: 49.03 bbl | Tool Weight: 2500.00 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: 145.00 ft | Diameter: 2.25 inches | Volume: 0.71 bbl | Weight to Pull Loose: 62000.00 lb |
| | | | <u>Total Volume: 49.74 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 21.00 ft | | | String Weight: Initial 56000.00 lb |
| Depth to Top Packer: | 3640.00 ft | | | Final 59000.00 lb |
| Depth to Bottom Packer: | 3648.00 ft | | | |
| Interval between Packers: | 8.00 ft | | | |
| Tool Length: | 65.00 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 | | | 3620.00 | |
| Shut In Tool | 5.00 | | | 3625.00 | |
| Hydraulic tool | 5.00 | | | 3630.00 | |
| Packer | 5.00 | | | 3635.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3640.00 | |
| Stubb | 1.00 | | | 3641.00 | |
| Recorder | 0.00 | 8789 | Inside | 3641.00 | |
| Recorder | 0.00 | 8289 | Outside | 3641.00 | |
| Perforations | 3.00 | | | 3644.00 | |
| Blank Off Sub | 1.00 | | | 3645.00 | |
| Blank Spacing | 3.00 | | | 3648.00 | 8.00 Tool Interval |
| Packer | 1.00 | | | 3649.00 | |
| Perforations | 3.00 | | | 3652.00 | |
| Change Over Sub | 1.00 | | | 3653.00 | |
| Recorder | 0.00 | 6668 | Below | 3653.00 | |
| Blank Spacing | 31.00 | | | 3684.00 | 36.00 Bottom Packers & Anchor |
| Total Tool Length: | 65.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

32-11s-17w Ellis,KS
Hadley #1
Job Ticket: 58873 **DST#: 2**
Test Start: 2014.05.28 @ 11:36:00

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: | 20000 ppm |
| Viscosity: 60.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 11.16 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 8000.00 ppm | | | |
| Filter Cake: 2.50 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---|---------------|
| 145.00 | MCW 5% _m 95% _w Show of Oil | 0.713 |
| 594.00 | OMCW 1% _o 5% _m 94% _w | 8.332 |
| 44.00 | OSWCM 1% _o 10% _w 89% _m | 0.617 |
| 1.00 | MWCO 10% _w 10% _m 80% _o | 0.014 |

Total Length: 784.00 ft Total Volume: 9.676 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: .240 @ 95

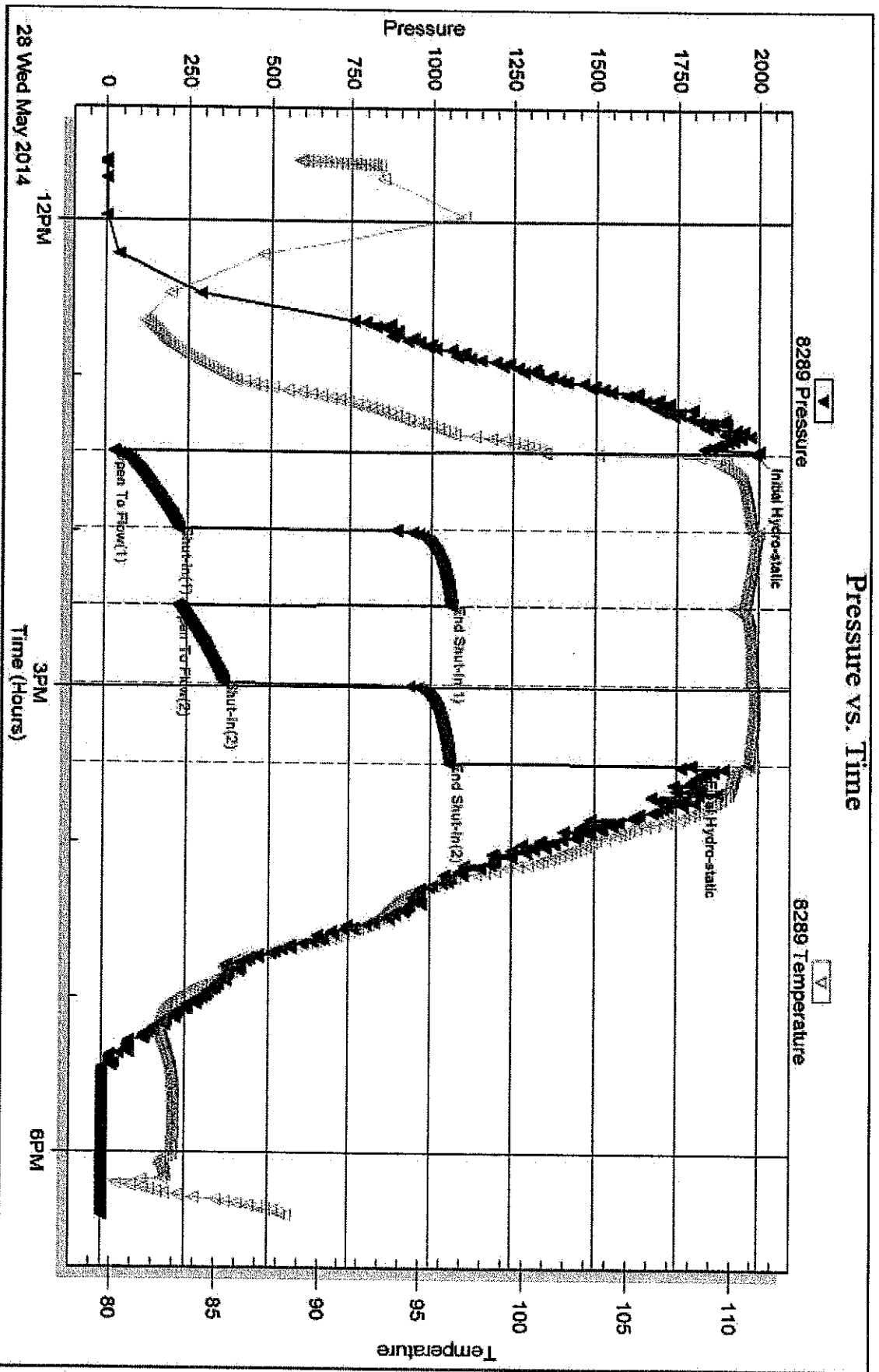
Serial #: 8289

Outside Casite Resources Inc

Headley #1

DST Test Number: 2

Pressure vs. Time



TriMobile Testing, Inc

Ref. No: 56873

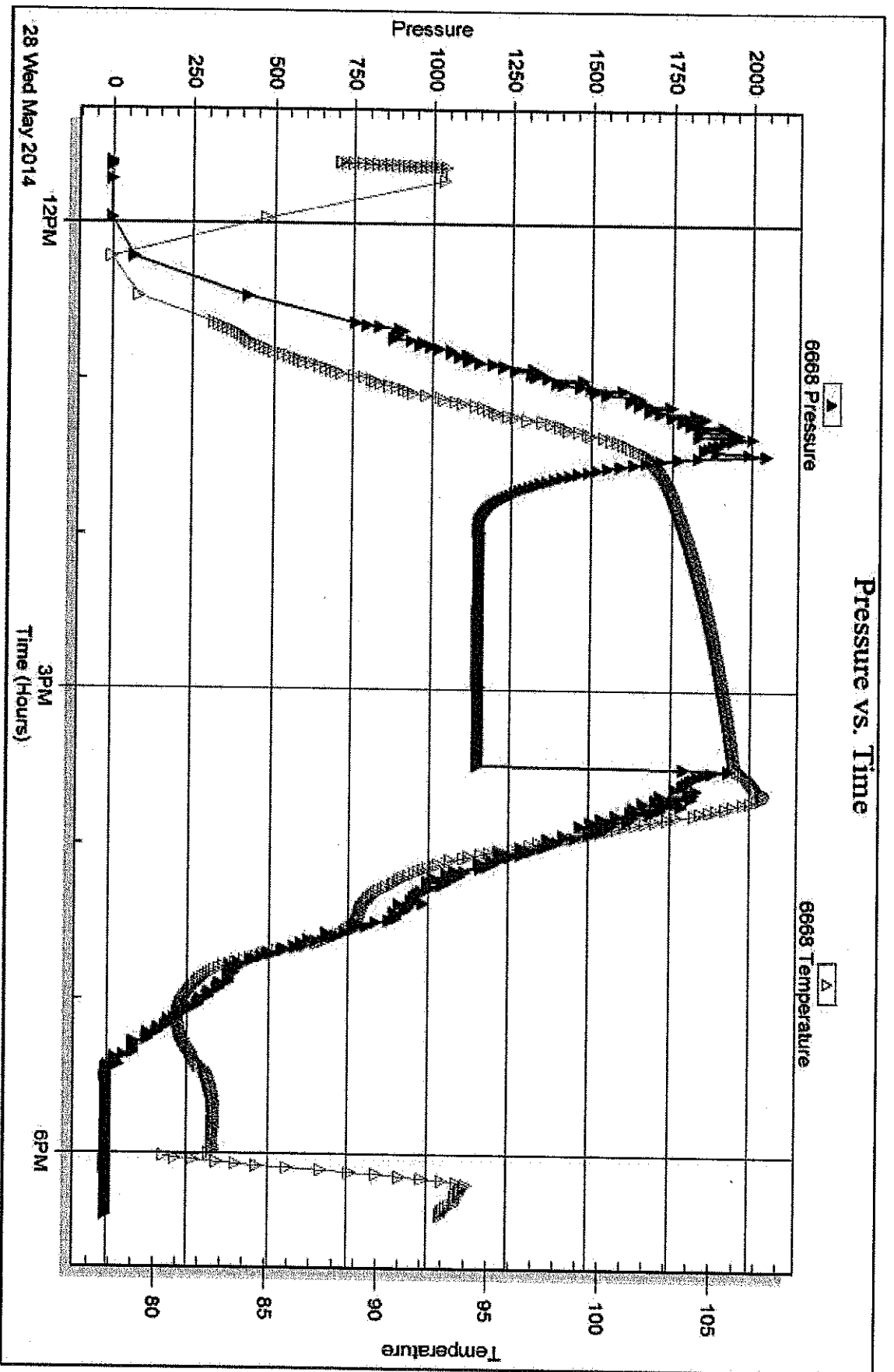
Printed: 2014.05.29 @ 14:19:18

Serial #: 6668

Below (Straddle) Resources Inc

Hadley #1

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 58873

Printed: 2014.05.29 @ 14:18:19

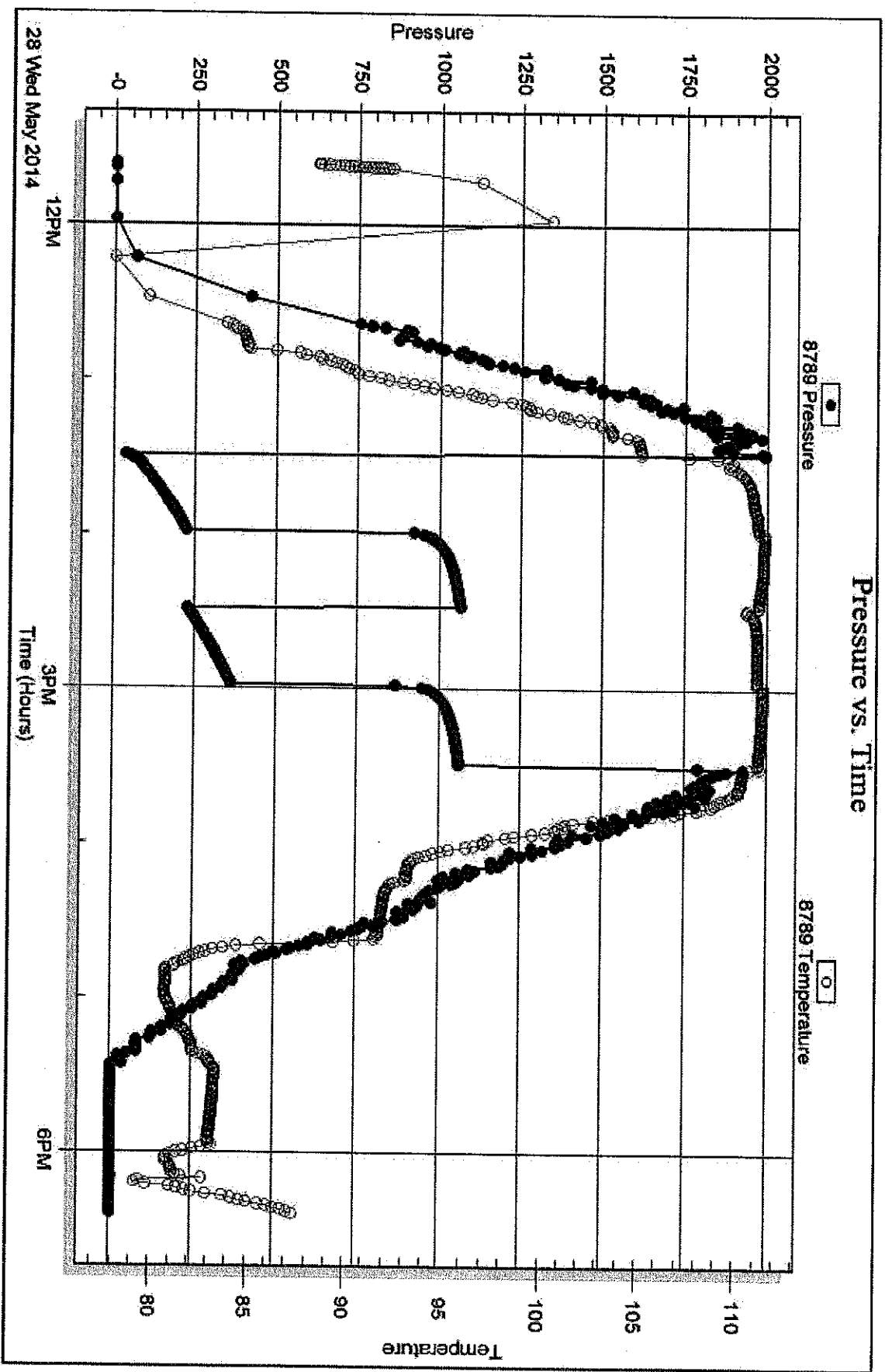
Serial #: 8789

Inside

Castle Resources Inc

Hedley #1

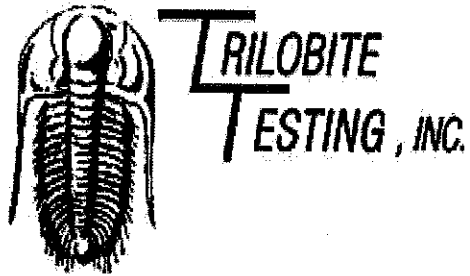
DST Test Number: 2



TriMobile Testing, Inc

Ref. No: 58873

Printed: 2014.05.29 @ 14:19:19



DRILL STEM TEST REPORT

Prepared For: **Castle Resources Inc**
PO Box 87
Schoenchen KS 67667-0087

ATTN: Jerry Green

Hadley #1

32-11s-17w Ellis,KS

Start Date: 2014.05.28 @ 19:28:00
End Date: 2014.05.29 @ 01:51:00
Job Ticket #: 58874 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.05.29 @ 14:04:17

Castle Resources Inc 32-11s-17w Ellis,KS Hadley #1 DST # 3 Arbuckle 2014.05.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

32-11s-17w Ellis,KS
Hadley #1
Job Ticket: 58874 **DST#: 3**
Test Start: 2014.05.28 @ 19:28:00

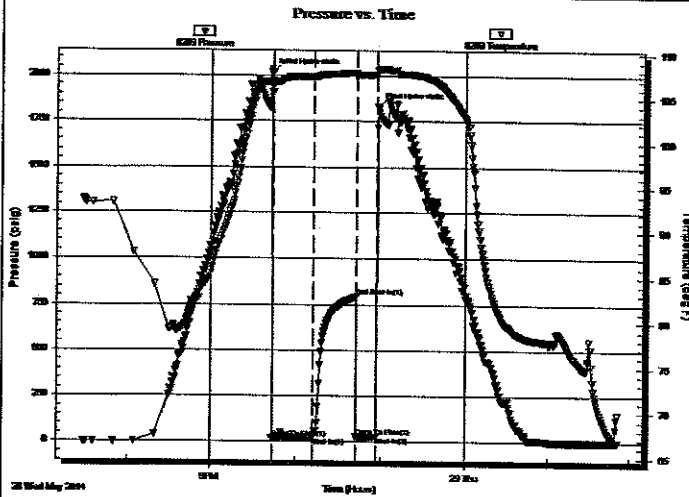
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:43:30
Time Test Ended: 01:51:00
Interval: **3620.00 ft (KB) To 3635.00 ft (KB) (TVD)**
Total Depth: 3685.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle (Reset)
Tester: Cody Bloedorn
Unit No: 76
Reference Elevations: 2107.00 ft (KB)
2102.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8289 Outside
Press@RunDepth: 24.28 psig @ 3631.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.05.28 End Date: 2014.05.29 Last Calib.: 2014.05.29
Start Time: 19:28:02 End Time: 01:51:00 Time On Btm: 2014.05.28 @ 21:43:15
Time Off Btm: 2014.05.28 @ 22:57:45

TEST COMMENT: 30 - IF- 1/4" blow
30 - IS- No return
15 - FF- No blow - ***PULLED TOOL***



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2016.11 | 106.98 | Initial Hydro-static |
| 1 | 19.50 | 105.68 | Open To Flow (1) |
| 29 | 24.28 | 107.35 | Shut-in(1) |
| 60 | 794.39 | 107.82 | End Shut-in(1) |
| 60 | 27.13 | 107.37 | Open To Flow (2) |
| 74 | 28.34 | 107.63 | Shut-in(2) |
| 75 | 1829.31 | 108.15 | Final Hydro-static |

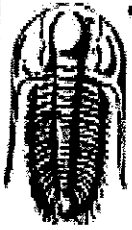
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------|--------------|
| 15.00 | 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

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

32-11s-17w Ellis, KS

Hadley #1

Job Ticket: 58874

DST#: 3

Test Start: 2014.05.28 @ 19:28:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 21:43:30
 Time Test Ended: 01:51:00

Test Type: **Conventional Straddle (Reset)**
 Tester: **Cody Bloedorn**
 Unit No: **76**

Interval: **3620.00 ft (KB) To 3635.00 ft (KB) (TVD)**
 Total Depth: **3685.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

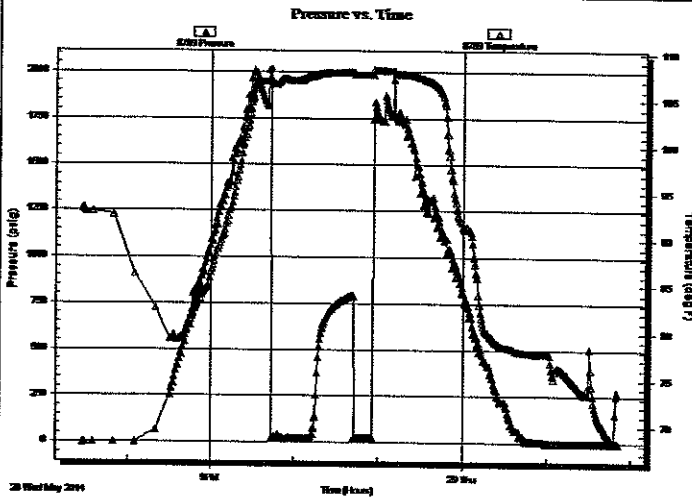
Reference Elevations: **2107.00 ft (KB)**
2102.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8789 **Inside**

Press@RunDepth: **psig @ 3631.00 ft (KB)**
 Start Date: **2014.05.28** End Date: **2014.05.29**
 Start Time: **19:28:02** End Time: **01:50:45**

Capacity: **8000.00 psig**
 Last Calib.: **2014.05.29**
 Time On Btrn:
 Time Off Btrn:

TEST COMMENT: 30 - IF- 1/4" blow
 30 - IS- No return
 15 - FF- No blow - ***PULLED TOOL***



PRESSURE SUMMARY

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

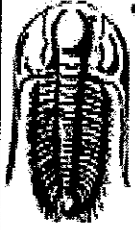
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------|--------------|
| 15.00 | 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

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

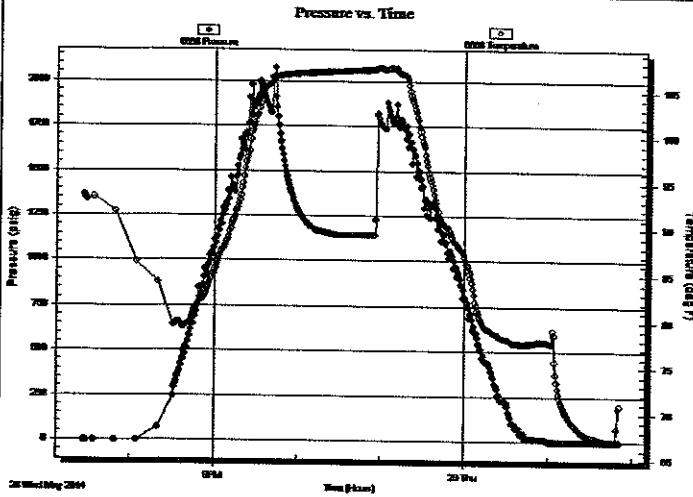
32-11s-17w Ellis,KS
Hadley #1
 Job Ticket: 58874 **DST#: 3**
 Test Start: 2014.05.28 @ 19:28:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:43:30
 Time Test Ended: 01:51:00
 Interval: **3620.00 ft (KB) To 3635.00 ft (KB) (TVD)**
 Total Depth: 3685.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Cody Bloedorn
 Unit No: 76
 Reference Elevations: 2107.00 ft (KB)
 2102.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6668 Below (Straddle)
 Press@RunDepth: psig @ 3649.00 ft (KB)
 Start Date: 2014.05.28 End Date: 2014.05.29
 Start Time: 19:28:02 End Time: 01:50:45
 Capacity: 8000.00 psig
 Last Calib.: 2014.05.29
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF- 1/4" blow
 30 - IS- No return
 15 - FF- No blow - ***PULLED TOOL***



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------|--------------|
| 15.00 | Mud - Oil spots, 100%M | 0.07 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

32-11s-17w Ellis,KS
Hadley #1
 Job Ticket: 58874 **DST#: 3**
 Test Start: 2014.05.28 @ 19:28:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe: | Length: 3460.00 ft | Diameter: 3.80 inches | Volume: 48.53 bbl | Tool Weight: 2500.00 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: 145.00 ft | Diameter: 2.25 inches | Volume: 0.71 bbl | Weight to Pull Loose: 60000.00 lb |
| | | Total Volume: | 49.24 bbl | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 6.00 ft | | | String Weight: Initial 55000.00 lb |
| Depth to Top Packer: | 3620.00 ft | | | Final 55000.00 lb |
| Depth to Bottom Packer: | 3635.00 ft | | | |
| Interval between Packers: | 15.00 ft | | | |
| Tool Length: | 85.00 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 | | | 3600.00 | |
| Shut In Tool | 5.00 | | | 3605.00 | |
| Hydraulic tool | 5.00 | | | 3610.00 | |
| Packer | 5.00 | | | 3615.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3620.00 | |
| Stubb | 1.00 | | | 3621.00 | |
| Perforations | 10.00 | | | 3631.00 | |
| Recorder | 0.00 | 8789 | Inside | 3631.00 | |
| Recorder | 0.00 | 8289 | Outside | 3631.00 | |
| Blank Off Sub | 1.00 | | | 3632.00 | |
| Blank Spacing | 3.00 | | | 3635.00 | 15.00 Tool Interval |
| Packer | 1.00 | | | 3636.00 | |
| Perforations | 12.00 | | | 3648.00 | |
| Change Over Sub | 1.00 | | | 3649.00 | |
| Recorder | 0.00 | 6668 | Below | 3649.00 | |
| Blank Spacing | 31.00 | | | 3680.00 | |
| Change Over Sub | 1.00 | | | 3681.00 | |
| Bullnose | 3.00 | | | 3684.00 | 49.00 Bottom Packers & Anchor |

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources Inc

32-11s-17w Ellis,KS

PO Box 87
Schoenchen KS 67667-0087

Hadley #1

Job Ticket: 58874

DST#: 3

ATTN: Jerry Green

Test Start: 2014.05.28 @ 19:28:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.11 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 2.50 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------------|---------------|
| 15.00 | Mud - Oil spots, 100%M | 0.074 |

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

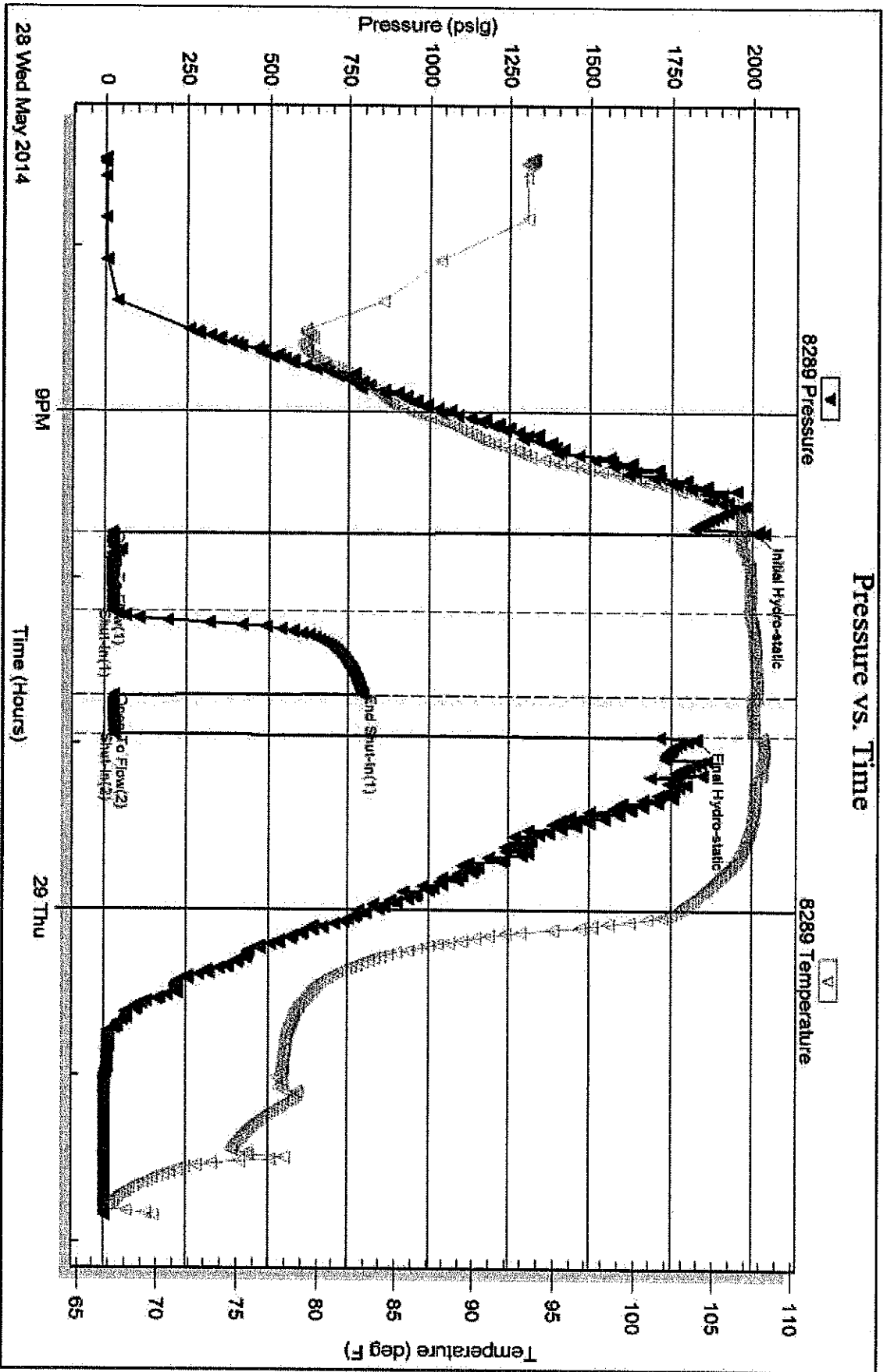
Recovery Comments:

Serial #: 8289

Outside Castle Resources Inc

Headley #1

DST Test Number: 3



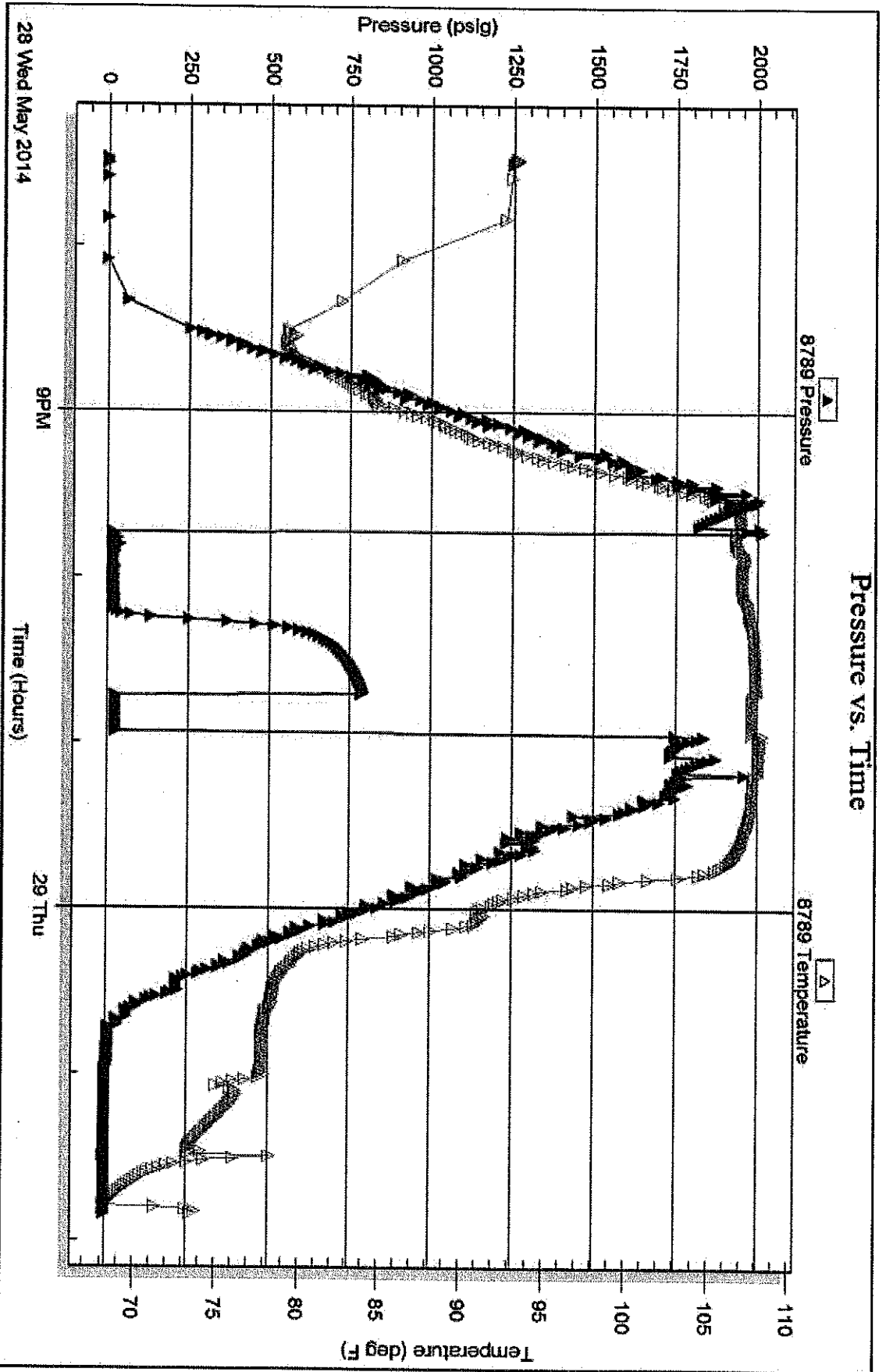
Serial #: 8789

Inside

Castle Resources Inc

Headley #1

DST Test Number: 3



TriChble Testing, Inc

Ref. No: 58874

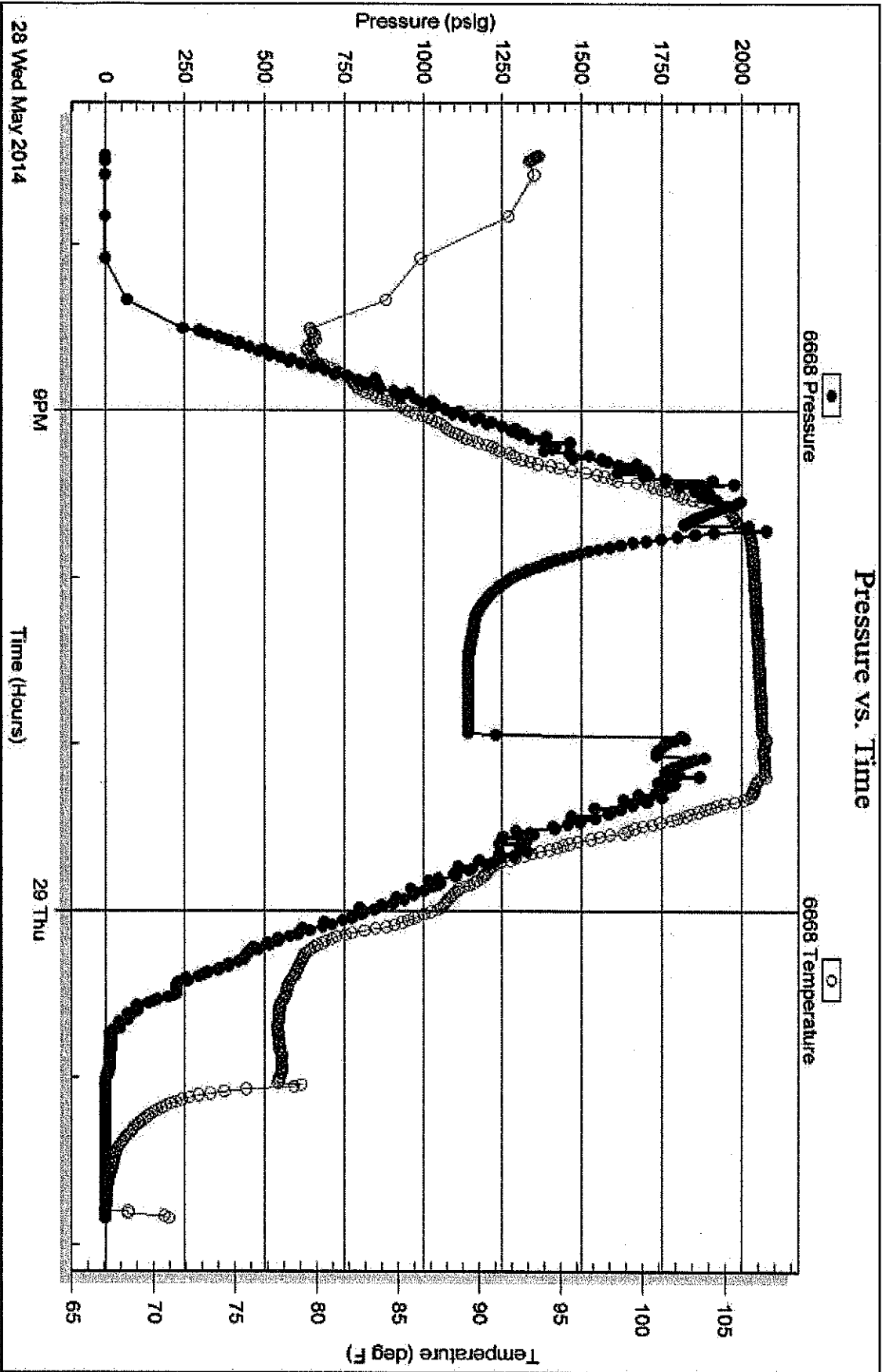
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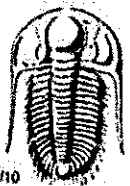
Serial #: 6668

Below (Straddle) Resources Inc

Hadley #1

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58872

Well Name & No. Hadley #1 Test No. 1 Date 5-27-14
 Company Castle Resources Inc. Elevation 2107 KB 2102 GL
 Address P.O. Box 87 Schoenchen KS 67667-0087
 Co. Rep / Geo. Jerry Green Rig Skytop Drilling #1
 Location: Sec. 32 Twp. 11^s Rge. 17^w Co. Ellis State KS

Interval Tested 3578-3620 Zone Tested Arbuckle
 Anchor Length 42 (65 TP) Drill Pipe Run 3435 Mud Wt. 9.1
 Top Packer Depth 3578 Drill Collars Run 145 Vis 60
 Bottom Packer Depth 3620 Wt. Pipe Run 8 WL 11.2
 Total Depth 3685 Chlorides 8000 ppm System LCM 2 1/2

Blow Description IFP - 1/4 Blow Ried in 13 min.
ISIP - No Blow
FFP - Good Surge on Open No Blow
FSIP - pulled.

| Rec | Feet of | %gas | %oil | %water | %mud |
|----------|------------|------|------|------------|------|
| <u>5</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 |

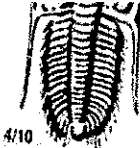
Rec Total 5 BHT 104 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1937 Test 1150 T-On Location 21:00
 (B) First Initial Flow 17 Jars _____ T-Started 04:58
 (C) First Final Flow 69 Safety Joint _____ T-Open 07:37
 (D) Initial Shut-In 513 Circ Sub _____ T-Pulled 08:52
 (E) Second Initial Flow 25 Hourly Standby .25h 25 T-Out 10:48
 (F) Second Final Flow 27 Mileage 38 RT 58.90 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1838 Straddle 600 Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 15 Day Standby _____ Total 2083.90
 Final Shut-In pulled Accessibility _____ MP/DST Disc't _____
 Sub Total 2083.90

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58873

Well Name & No. Hadley #1 Test No. 2 Date 5-28-14
 Company Castle Resources Inc. Elevation 2107 KB 2102 GL
 Address P.O. Box 87 Schoenchen K.S 67667-0087
 Co. Rep / Geo. Jerry Green Rig Skystop
 Location: Sec. 32 Twp. 11S Rge. 17W Co. Ellis State KS

Interval Tested 3640 - 3648 Zone Tested Arbuckle
 Anchor Length 8 (32TP) Drill Pipe Run 3495 Mud Wt. 9.1
 Top Packer Depth 3640 Drill Collars Run 145 Vis 60
 Bottom Packer Depth 3648 Wt. Pipe Run 8 WL 11.2
 Total Depth 3685 Chlorides 8000 ppm System LCM 2 1/2

Blow Description IFP - BOB in 6 min
ISIP - No Blow
FFP - BOB in 7 min
FSIP -

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|------------------------|-----------|-----------|-----------|------|
| <u>145</u> | <u>MCW show of Oil</u> | | <u>95</u> | <u>5</u> | |
| <u>594</u> | <u>OMCW</u> | <u>1</u> | <u>94</u> | <u>5</u> | |
| <u>44</u> | <u>OSWCM</u> | <u>1</u> | <u>10</u> | <u>89</u> | |
| <u>1</u> | <u>MWCO</u> | <u>80</u> | <u>10</u> | <u>10</u> | |

Rec Total 784 BHT 111 Gravity API RW 240 @ 95° F Chlorides 20000 ppm
 (A) Initial Hydrostatic 1992 Test 1150 T-On Location 2:00
 (B) First Initial Flow 26 Jars T-Started 11:36
 (C) First Final Flow 224 Safety Joint T-Open 13:29
 (D) Initial Shut-In 1064 Circ Sub T-Pulled 15:29
 (E) Second Initial Flow 221 Hourly Standby T-Out 18:24
 (F) Second Final Flow 364 Mileage Comments
 (G) Final Shut-In 1061 Sampler
 (H) Final Hydrostatic 1793 Straddle 600 Ruined Shale Packer
 Shale Packer 250 Ruined Packer
 Initial Open 30 Extra Packer Extra Copies
 Initial Shut-In 30 Extra Recorder Sub Total 0
 Final Flow 30 Day Standby Total 2000
 Final Shut-In 30 Accessibility MP/DST Disc't
 Sub Total 2000

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58874

Well Name & No. Hadley #1 Test No. 3 Date 5-28-14
 Company Castle Resources Inc Elevation 2107 KB 2102 GL
 Address P.O. Box 87 Schoenchen KS, 67667-0087
 Co. Rep / Geo. Jerry Green Rig SKYTOP
 Location: Sec. 32 Twp. 11S Rge. 17W Co. Ellis State KS

Interval Tested 3620-3635 Zone Tested Ar buckle
 Anchor Length 15 Drill Pipe Run 3460' Mud Wt. 9.1
 Top Packer Depth 3620 Drill Collars Run 145' Vis 60
 Bottom Packer Depth 3635 Wt. Pipe Run 0 WL 11.3
 Total Depth 3685 Chlorides 8,000 ppm System LCM 2.5

Blow Description IF - 1/4" blow
ISI - No return
FF - No blow - pulled tool
FST -

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|------------------------|------|------|------------|------|
| <u>15</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 15 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

| | | |
|-------------------------------------|---|--|
| (A) Initial Hydrostatic <u>2016</u> | <input checked="" type="checkbox"/> Test <u>1150</u> | T-On Location <u>1927</u> |
| (B) First Initial Flow <u>19</u> | <input type="checkbox"/> Jars _____ | T-Started <u>1928</u> |
| (C) First Final Flow <u>24</u> | <input type="checkbox"/> Safety Joint _____ | T-Open <u>2142</u> |
| (D) Initial Shut-In <u>794</u> | <input type="checkbox"/> Circ Sub _____ | T-Pulled <u>2257</u> |
| (E) Second Initial Flow <u>27</u> | <input type="checkbox"/> Hourly Standby _____ | T-Out <u>0150</u> |
| (F) Second Final Flow <u>28</u> | <input type="checkbox"/> Mileage _____ | Comments _____ |
| (G) Final Shut-In _____ | <input type="checkbox"/> Sampler _____ | |
| (H) Final Hydrostatic <u>1829</u> | <input checked="" type="checkbox"/> Straddle <u>600</u> | <input type="checkbox"/> Ruined Shale Packer _____ |
| | <input checked="" type="checkbox"/> Shale Packer <u>250</u> | <input type="checkbox"/> Ruined Packer _____ |
| Initial Open <u>30</u> | <input type="checkbox"/> Extra Packer _____ | <input type="checkbox"/> Extra Copies _____ |
| Initial Shut-In <u>30</u> | <input type="checkbox"/> Extra Recorder _____ | Sub Total <u>0</u> |
| Final Flow <u>15</u> | <input type="checkbox"/> Day Standby _____ | Total <u>2000</u> |
| Final Shut-In _____ | <input type="checkbox"/> Accessibility _____ | MP/DST Disc't _____ |
| | Sub Total <u>2000</u> | |

Approved By _____ Our Representative Cody Bly

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