



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1193212
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: _____

1193212

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> _____ <i>(Submit ACO-4)</i> | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

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

1154

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT:

1154-15 - 1154-15

| | | | | | | | |
|-------------------------|------------------|---------------|-----------------|------------|-------------------------|----------------------------|-----------------------------|
| DATE <i>11-14-13</i> | SEC. <i>13</i> | TWP. <i>5</i> | RANGE <i>23</i> | CALLED OUT | ON LOCATION | JOB START <i>8:00pm</i> | JOB FINISH <i>8:30pm</i> |
| LEASE <i>Schuck</i> | WELL # <i>B1</i> | LOCATION | | | COUNTY <i>Norton</i> | STATE <i>KS</i> | |
| OLD OR NEW (CIRCLE ONE) | | | | | | | |

CONTRACTOR _____ OWNER _____

TYPE OF JOB *Surface*

HOLE SIZE *2 7/8* T.D. *215*

CASING SIZE *8 5/8* DEPTH *2'*

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. *20ft*

PERFS _____

DISPLACEMENT _____

CEMENT AMOUNT ORDERED *1655xcom 3% cc 2% gel*

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

EQUIPMENT

PUMP TRUCK CEMENTER *1 each*

1 HELPER *1 each*

BULK TRUCK _____

1 DRIVER *1 each*

BULK TRUCK _____

_____ DRIVER _____

REMARKS:
*Ran 5 ft of 8 5/8 casing and landing it
est circulation with mud pump
Hook up and mix 1655x and disp 60% of 1655 - shut off 300ps*

Cement did circulate to surface

CHARGE TO: *Anderson Exploration*

STREET *7485 4th ave*

CITY *Hillcity* STATE *KS* ZIP _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

TOTAL _____

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

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

PRINTED NAME _____

SIGNATURE *Daniel*

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

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

1159

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: Russell, KS

| | | | | | | | |
|-------------------------|-----------------|---------------|-----------------|------------|----------------------|-------------------------|--------------------------|
| DATE <u>11-28-13</u> | SEC. <u>13</u> | TWP. <u>5</u> | RANGE <u>23</u> | CALLED OUT | ON LOCATION | JOB START <u>8:00am</u> | JOB FINISH <u>8:30pm</u> |
| LEASE <u>Schuck</u> | WELL# <u>B1</u> | LOCATION | | | COUNTY <u>Norton</u> | STATE <u>KS</u> | |
| OLD OR NEW (CIRCLE ONE) | | | | | | | |

CONTRACTOR AAA Drilling

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8 T.D. _____

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS _____

DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK CEMENTER Heath

11 HELPER Coody

BULK TRUCK

B3 DRIVER Mark

BULK TRUCK

_____ DRIVER _____

OWNER _____

CEMENT AMOUNT ORDERED 255.5x 60/40 490.901

4# 110

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

REMARKS:

1st plug @ 3650 00.5x

2nd plug @ 1770 - 2554

3rd plug @ 985 - 100.5x

TOP OF 8" with 51 @ 40ft

RH 300

4th 250 40.5x

CHARGE TO: Anderson Exploration

STREET 748 5th Ave

CITY Hill City STATE KS ZIP 67642

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

PRINTED NAME _____

SIGNATURE David Anderson

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

wood plug @ 111

_____ @ _____

_____ @ _____

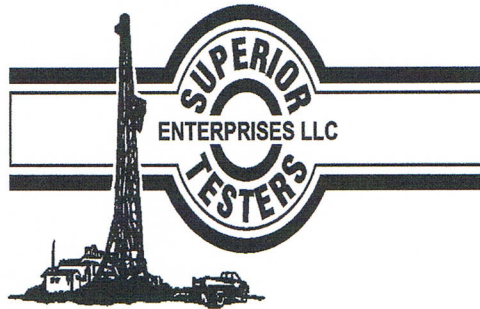
_____ @ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS



DRILL STEM TEST REPORT

Prepared For: **Anderson Exploration**

748 South 4th Ave.
Hillcity Kansas 67642

ATTN: Darrell Anderson

Schuck B-1

13-5s-23w-Norton

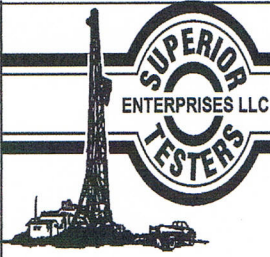
Start Date: 2013.11.20 @ 07:15:00

End Date: 2013.11.20 @ 13:01:00

Job Ticket #: 18462 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.11.21 @ 01:15:52



DRILL STEM TEST REPORT

Anderson Exploration

13-5s-23w-Norton

748 South 4th Ave.
Hillcity Kansas 67642

Schuck B-1

Job Ticket: 18462

DST#: 1

ATTN: Darrell Anderson

Test Start: 2013.11.20 @ 07:15:00

GENERAL INFORMATION:

Formation: **Lansing I J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:19:00

Time Test Ended: 13:01:00

Interval: 3464.00 ft (KB) To 3501.00 ft (KB) (TVD)

Total Depth: 3501.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-

Reference Elevations: 2133.00 ft (KB)

2126.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6731

Inside

Press@RunDepth: 78.88 psia @ 3497.00 ft (KB)

Start Date: 2013.11.20

End Date: 2013.11.20

Start Time: 07:15:00

End Time: 13:01:00

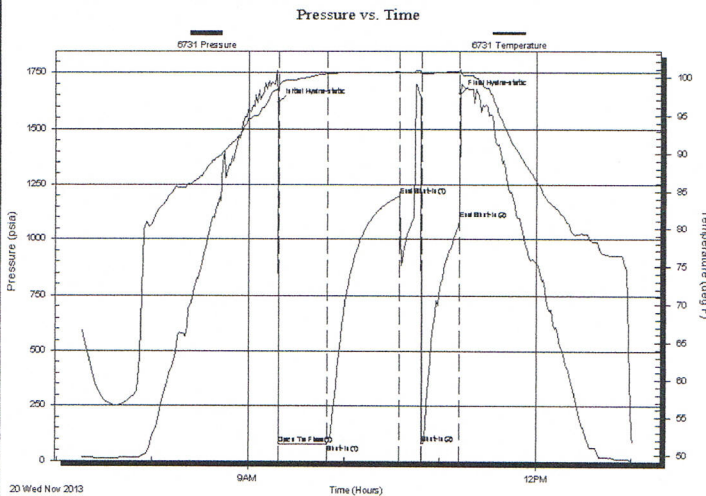
Capacity: 5000.00 psia

Last Calib.: 2013.11.21

Time On Btm: 2013.11.20 @ 09:18:30

Time Off Btm: 2013.11.20 @ 11:12:30

TEST COMMENT: 1st Open 30 minutes Fair built to 6 inches stayed steady through out.
1st Shut in 45 minutes No blow back
2nd Open 17 minutes Dead flushed no help.
2nd Shut in 20 minutes No blow back



PRESSURE SUMMARY

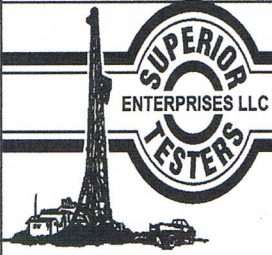
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1616.40 | 98.53 | Initial Hydro-static |
| 1 | 78.47 | 98.80 | Open To Flow (1) |
| 31 | 78.88 | 100.47 | Shut-In(1) |
| 76 | 1199.83 | 100.69 | End Shut-In(1) |
| 90 | 81.34 | 100.51 | Shut-In(2) |
| 114 | 1092.22 | 100.83 | End Shut-In(2) |
| 114 | 1655.35 | 101.03 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 71.00 | Mud 100% | 1.00 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

Anderson Exploration

13-5s-23w-Norton

748 South 4th Ave.
Hillcity Kansas 67642

Schuck B-1

Job Ticket: 18462

DST#: 1

ATTN: Darrell Anderson

Test Start: 2013.11.20 @ 07:15:00

GENERAL INFORMATION:

Formation: **Lansing I J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:19:00

Time Test Ended: 13:01:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-

Interval: **3464.00 ft (KB) To 3501.00 ft (KB) (TVD)**

Total Depth: 3501.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2133.00 ft (KB)

2126.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: **8159** Outside

Press@RunDepth: 1061.45 psia @ 3498.00 ft (KB)

Start Date: 2013.11.20

End Date: 2013.11.20

Start Time: 07:15:00

End Time: 13:00:30

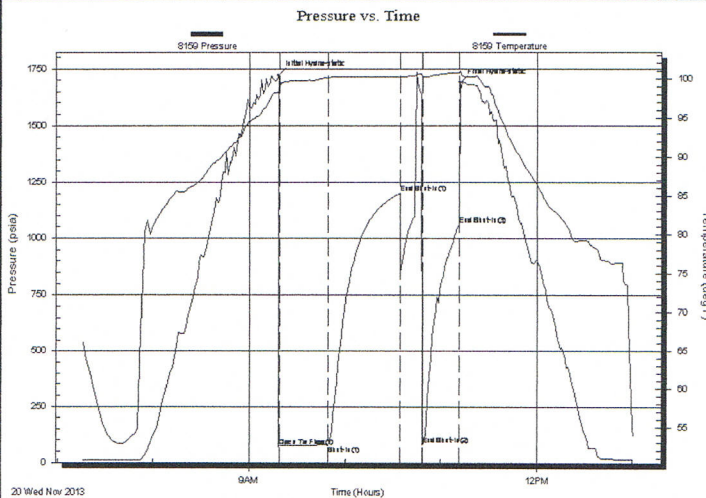
Capacity: 5000.00 psia

Last Calib.: 2013.11.21

Time On Btm: 2013.11.20 @ 09:18:00

Time Off Btm: 2013.11.20 @ 11:12:00

TEST COMMENT: 1st Open 30 minutes Fair built to 6 inches stayed steady through out.
1st Shut in 45 minutes No blow back
2nd Open 17 minutes Dead flushed no help.
2nd Shut in 20 minutes No blow back



PRESSURE SUMMARY

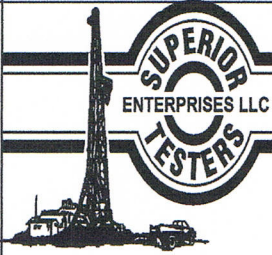
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1721.98 | 98.50 | Initial Hydro-static |
| 1 | 72.73 | 98.13 | Open To Flow (1) |
| 32 | 77.76 | 100.19 | Shut-In(1) |
| 76 | 1200.73 | 100.33 | End Shut-In(1) |
| 91 | 79.53 | 100.23 | End Shut-In(2) |
| 114 | 1061.45 | 100.82 | End Shut-In(3) |
| 114 | 1689.63 | 101.05 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 71.00 | Mud 100% | 1.00 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Anderson Exploration

13-5s-23w-Norton

748 South 4th Ave.
Hillcity Kansas 67642

Schuck B-1

Job Ticket: 18462

DST#: 1

ATTN: Darrell Anderson

Test Start: 2013.11.20 @ 07:15:00

Tool Information

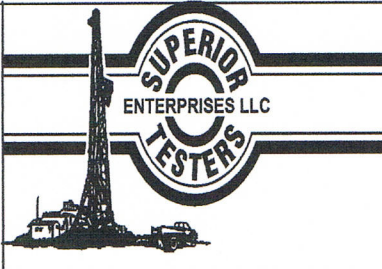
| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3455.00 ft | Diameter: 3.80 inches | Volume: 48.46 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 34000.00 lb |
| | | | <u>Total Volume: 48.46 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 11.00 ft | | | String Weight: Initial 31000.00 lb |
| Depth to Top Packer: | 3464.00 ft | | | Final 31000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 37.00 ft | | | |
| Tool Length: | 57.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Shut-In Tool | 5.00 | | | 3449.00 | |
| Hydraulic Tool | 5.00 | | | 3454.00 | |
| Packer | 5.00 | | | 3459.00 | 20.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3464.00 | |
| Anchor | 32.00 | | | 3496.00 | |
| Recorder | 1.00 | 6731 | Inside | 3497.00 | |
| Recorder | 1.00 | 8159 | Outside | 3498.00 | |
| Bullnose | 3.00 | | | 3501.00 | 37.00 Bottom Packers & Anchor |

Total Tool Length: 57.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Anderson Exploration
 748 South 4th Ave.
 Hillcity Kansas 67642
 ATTN: Darrell Anderson

13-5s-23w-Norton
Schuck B-1
 Job Ticket: 18462 **DST#: 1**
 Test Start: 2013.11.20 @ 07:15:00

Mud and Cushion Information

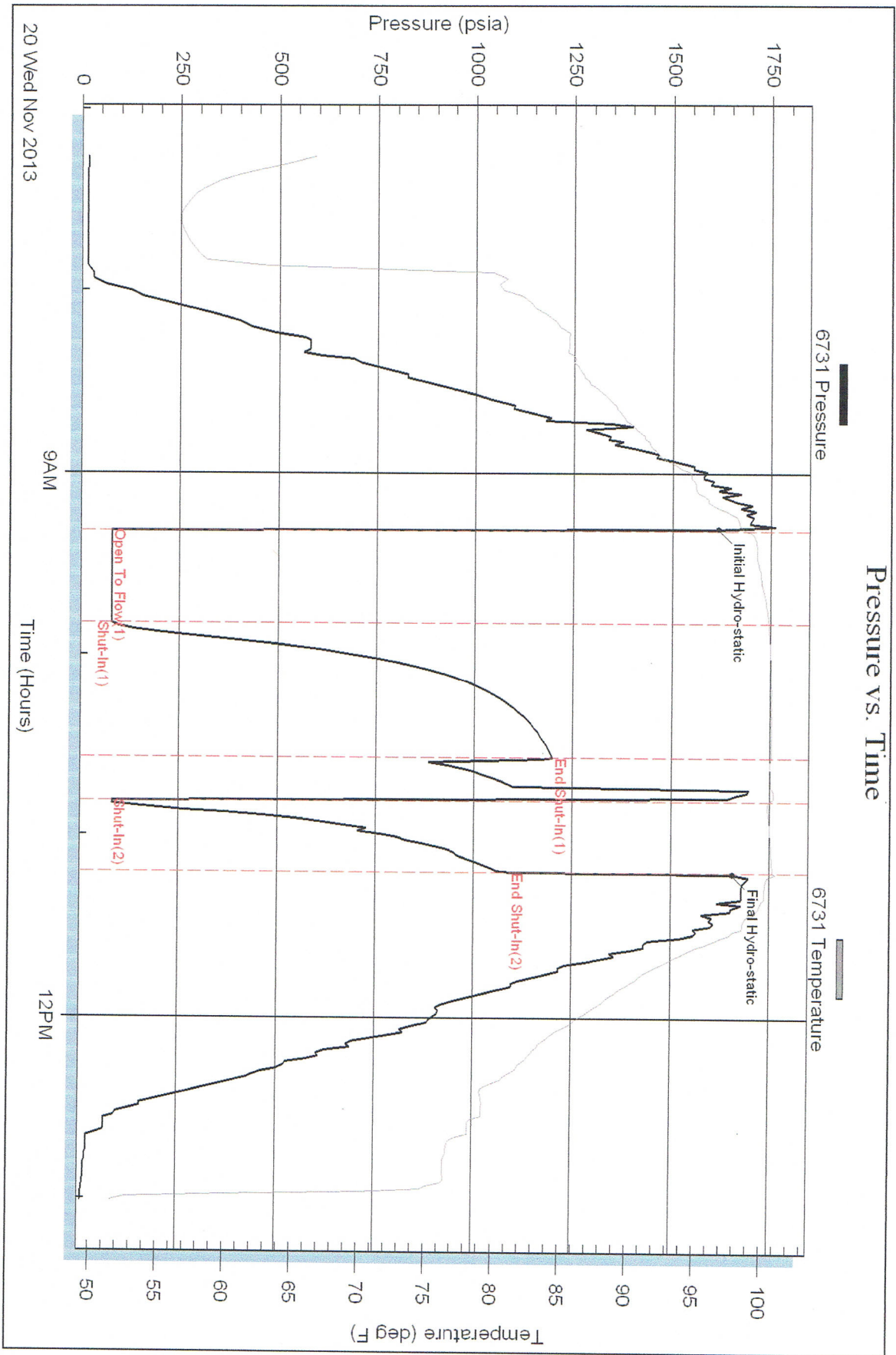
| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 58.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 8.80 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psia | | |
| Salinity: 750.00 ppm | | | |
| Filter Cake: 1.00 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 71.00 | Mud 100% | 0.996 |

Total Length: 71.00 ft Total Volume: 0.996 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

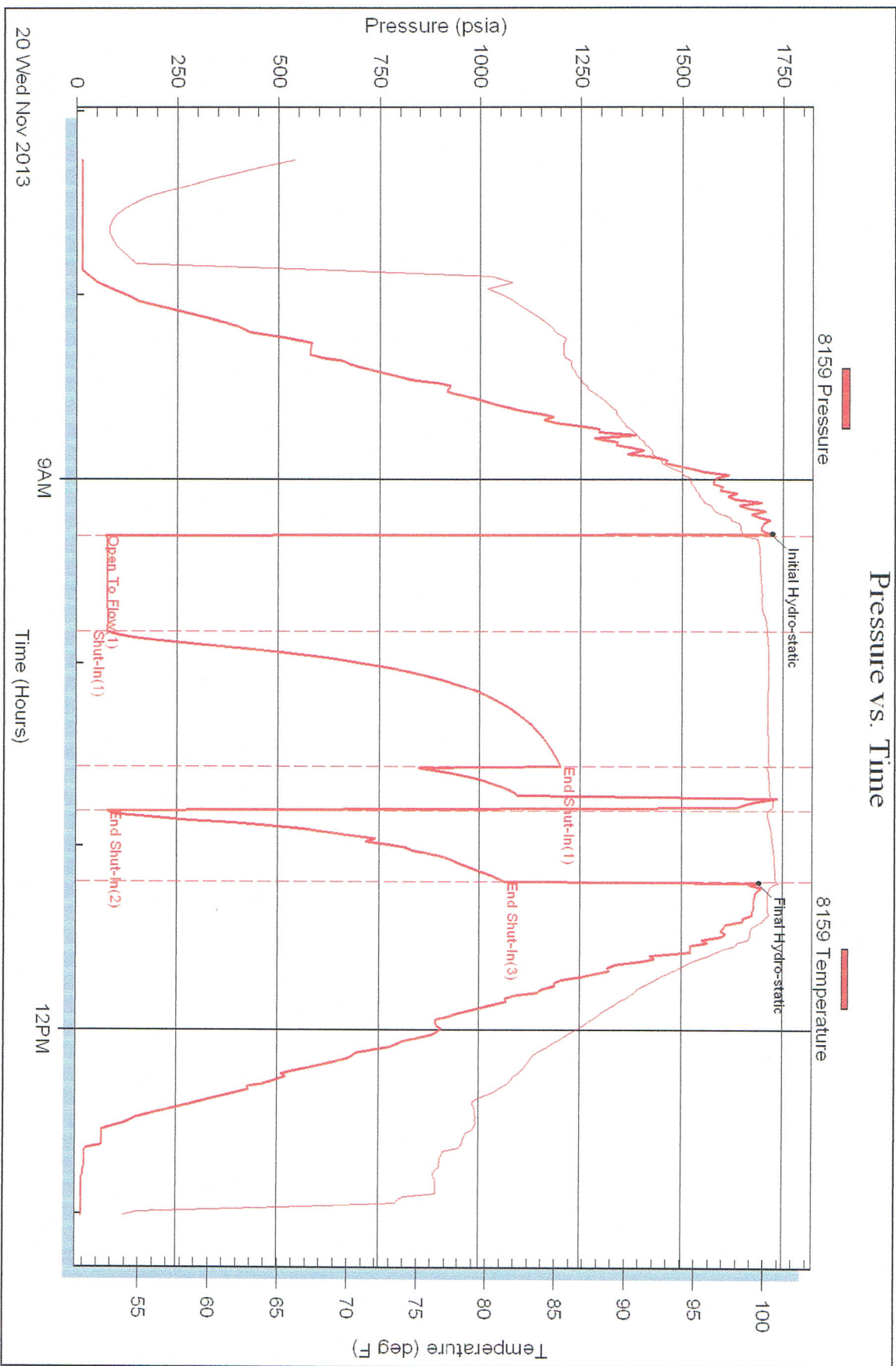


Serial #: 8159

Outside Anderson Exploration

Schuck B-1

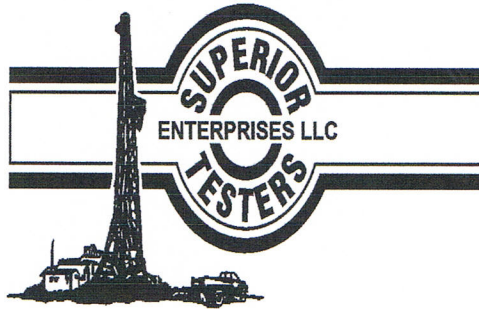
DST Test Number: 1



Superior Testers Enterprises LLC

Ref. No: 18462

Printed: 2013.11.21 @ 01:15:53



DRILL STEM TEST REPORT

Prepared For: **Anderson Exploration**

748 South 4th Ave.
Hillcity Kansas 67642

ATTN: Darrell Anderson

Schuck B-1

13-5s-23w-Norton

Start Date: 2013.11.22 @ 07:55:00

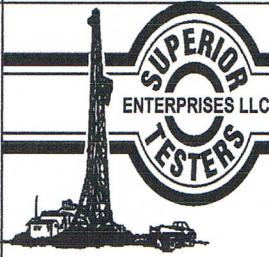
End Date: 2013.11.22 @ 13:55:30

Job Ticket #: 18463 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.11.22 @ 14:12:17

Anderson Exploration
13-5s-23w-Norton
Schuck B-1
DST # 2
Reagan Sand
2013.11.22



DRILL STEM TEST REPORT

Anderson Exploration

13-5s-23w-Norton

748 South 4th Ave.
Hillcity Kansas 67642

Schuck B-1

Job Ticket: 18463

DST#: 2

ATTN: Darrell Anderson

Test Start: 2013.11.22 @ 07:55:00

GENERAL INFORMATION:

Formation: **Reagan Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:12:30

Time Test Ended: 13:55:30

Interval: 3772.00 ft (KB) To 3780.00 ft (KB) (TVD)

Total Depth: 3780.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Hays-92

Reference Elevations: 2133.00 ft (KB)

2126.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8159 Outside

Press@RunDepth: 572.06 psia @ 3777.00 ft (KB)

Start Date: 2013.11.22

End Date: 2013.11.22

Start Time: 07:55:00

End Time: 13:55:30

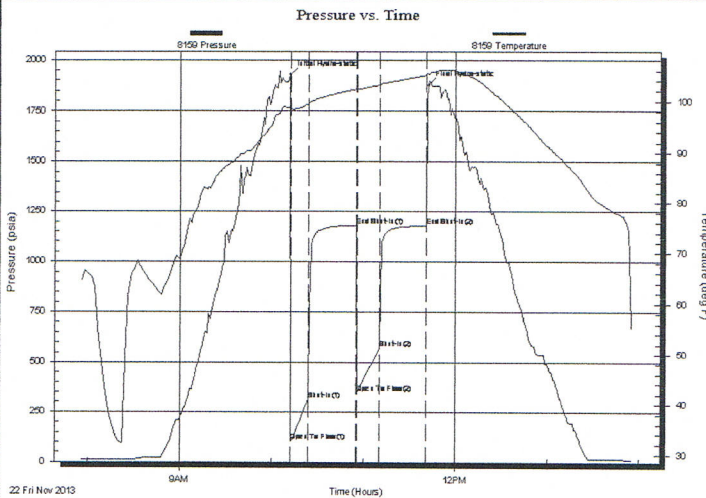
Capacity: 5000.00 psia

Last Calib.: 2013.11.22

Time On Btm: 2013.11.22 @ 10:12:00

Time Off Btm: 2013.11.22 @ 11:42:00

TEST COMMENT: 1st Open 15 minutes Strong blow blew off bottom bucket 1 minute.
1st Shut in 30 minutes Yes 1.5 inch blow back
2nd Open 15 minutes Strong blow blew off bottom bucket 55 seconds.
2nd Shut in 30 minutes Yes blow back surface blow



PRESSURE SUMMARY

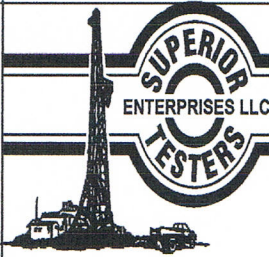
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1926.18 | 98.98 | Initial Hydro-static |
| 1 | 103.61 | 98.57 | Open To Flow (1) |
| 12 | 312.55 | 99.51 | Shut-In(1) |
| 43 | 1181.26 | 102.41 | End Shut-In(1) |
| 44 | 345.56 | 102.23 | Open To Flow (2) |
| 59 | 572.06 | 103.24 | Shut-In(2) |
| 89 | 1180.23 | 105.12 | End Shut-In(2) |
| 90 | 1877.05 | 105.36 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 1140.00 | Water 100% | 15.99 |
| 0.00 | Chlorides 22,000 | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

Anderson Exploration

13-5s-23w-Norton

748 South 4th Ave.
Hillcity Kansas 67642

Schuck B-1

Job Ticket: 18463

DST#: 2

ATTN: Darrell Anderson

Test Start: 2013.11.22 @ 07:55:00

GENERAL INFORMATION:

Formation: **Reagan Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:12:30

Time Test Ended: 13:55:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Hays-92

Interval: 3772.00 ft (KB) To 3780.00 ft (KB) (TVD)

Reference Elevations: 2133.00 ft (KB)

Total Depth: 3780.00 ft (KB) (TVD)

2126.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6731

Inside

Press@RunDepth: 1180.58 psia @ 3776.00 ft (KB)

Capacity: psia

Start Date: 2013.11.22

End Date: 2013.11.22

Last Calib.: 1899.12.30

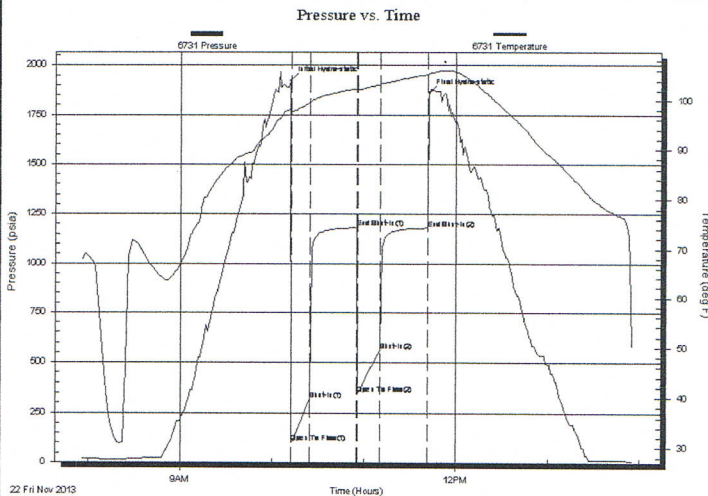
Start Time: 07:55:00

End Time: 13:56:00

Time On Btm: 2013.11.22 @ 10:12:00

Time Off Btm: 2013.11.22 @ 11:42:00

TEST COMMENT: 1st Open 15 minutes Strong blow blew off bottom bucket 1 minute.
1st Shut in 30 minutes Yes 1.5 inch blow back
2nd Open 15 minutes Strong blow blew off bottom bucket 55 seconds.
2nd Shut in 30 minutes Yes blow back surface blow



PRESSURE SUMMARY

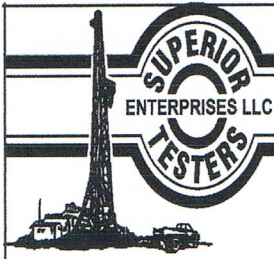
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1922.72 | 98.22 | Initial Hydro-static |
| 1 | 101.72 | 97.81 | Open To Flow (1) |
| 13 | 317.57 | 99.57 | Shut-In(1) |
| 44 | 1181.68 | 102.45 | End Shut-In(1) |
| 44 | 346.20 | 102.25 | Open To Flow (2) |
| 58 | 558.11 | 103.23 | Shut-In(2) |
| 90 | 1180.58 | 105.26 | End Shut-In(2) |
| 90 | 1861.47 | 105.46 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 1140.00 | Water 100% | 15.99 |
| 0.00 | Chlorides 22,000 | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Anderson Exploration

13-5s-23w-Norton

748 South 4th Ave.
Hillcity Kansas 67642

Schuck B-1

Job Ticket: 18463

DST#: 2

ATTN: Darrell Anderson

Test Start: 2013.11.22 @ 07:55:00

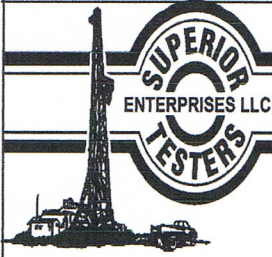
Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3763.00 ft | Diameter: 3.80 inches | Volume: 52.78 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 38000.00 lb |
| | | | <u>Total Volume: 52.78 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 11.00 ft | | | String Weight: Initial 31000.00 lb |
| Depth to Top Packer: | 3772.00 ft | | | Final 34000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 8.00 ft | | | |
| Tool Length: | 28.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|------------------------------|
| Shut-In Tool | 5.00 | | | 3757.00 | |
| Hydraulic Tool | 5.00 | | | 3762.00 | |
| Packer | 5.00 | | | 3767.00 | 20.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3772.00 | |
| Anchor | 3.00 | | | 3775.00 | |
| Recorder | 1.00 | 6731 | Inside | 3776.00 | |
| Recorder | 1.00 | 8159 | Outside | 3777.00 | |
| Bullnose | 3.00 | | | 3780.00 | 8.00 Bottom Packers & Anchor |

Total Tool Length: 28.00



DRILL STEM TEST REPORT

GAS RATES

Anderson Exploration

13-5s-23w-Norton

748 South 4th Ave.
Hillcity Kansas 67642

Schuck B-1

Job Ticket: 18463

DST#: 2

ATTN: Darrell Anderson

Test Start: 2013.11.22 @ 07:55:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

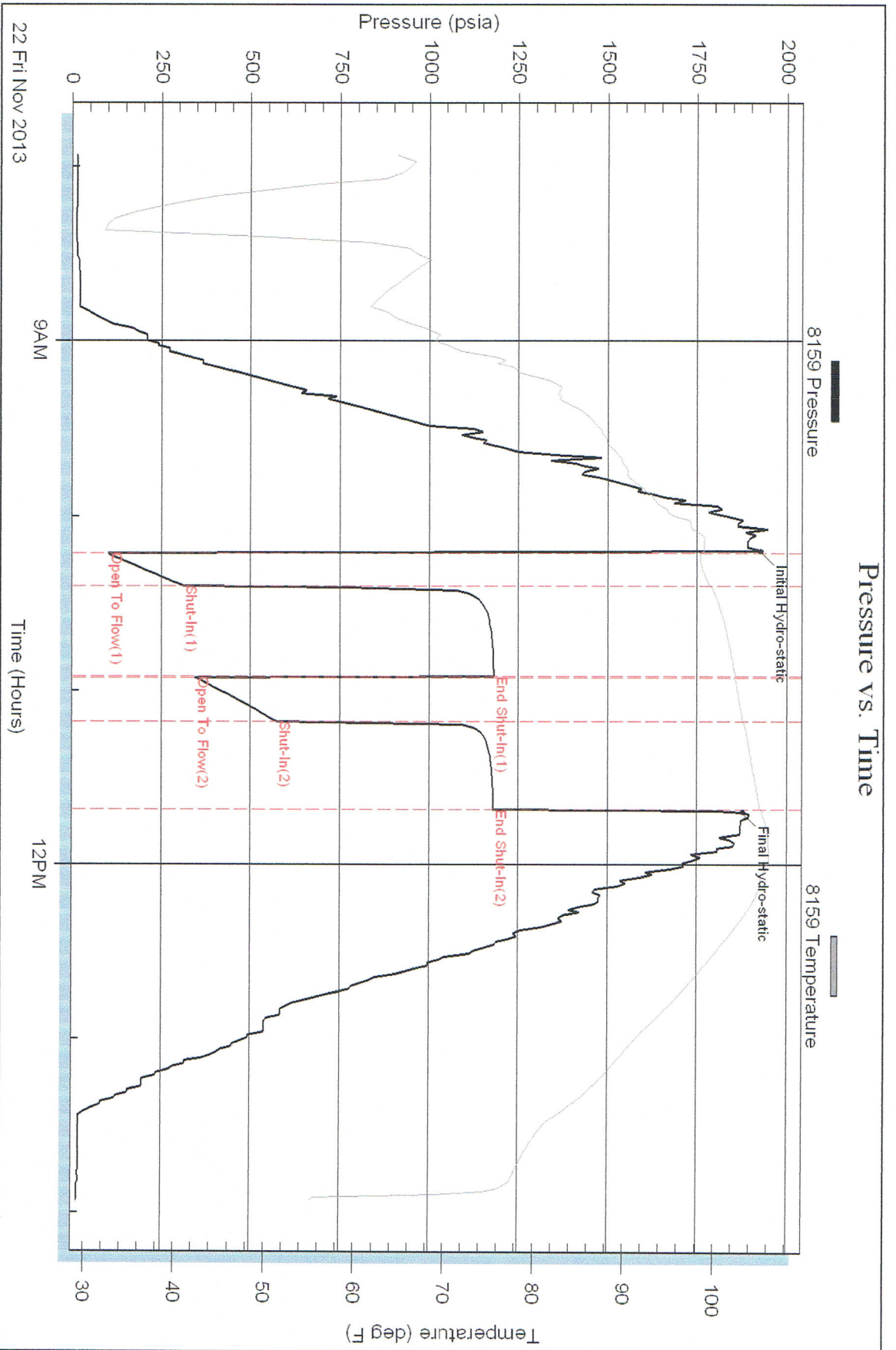
| Flow Period | Elapsed Time | Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
| | | 0.00 | 0.00 | 0.00 |

Serial #: 8159

Outside Anderson Exploration

Schuck B-1

DST Test Number: 2



Superior Testers Enterprises LLC

Ref. No: 18463

Printed: 2013.11.22 @ 14:12:18

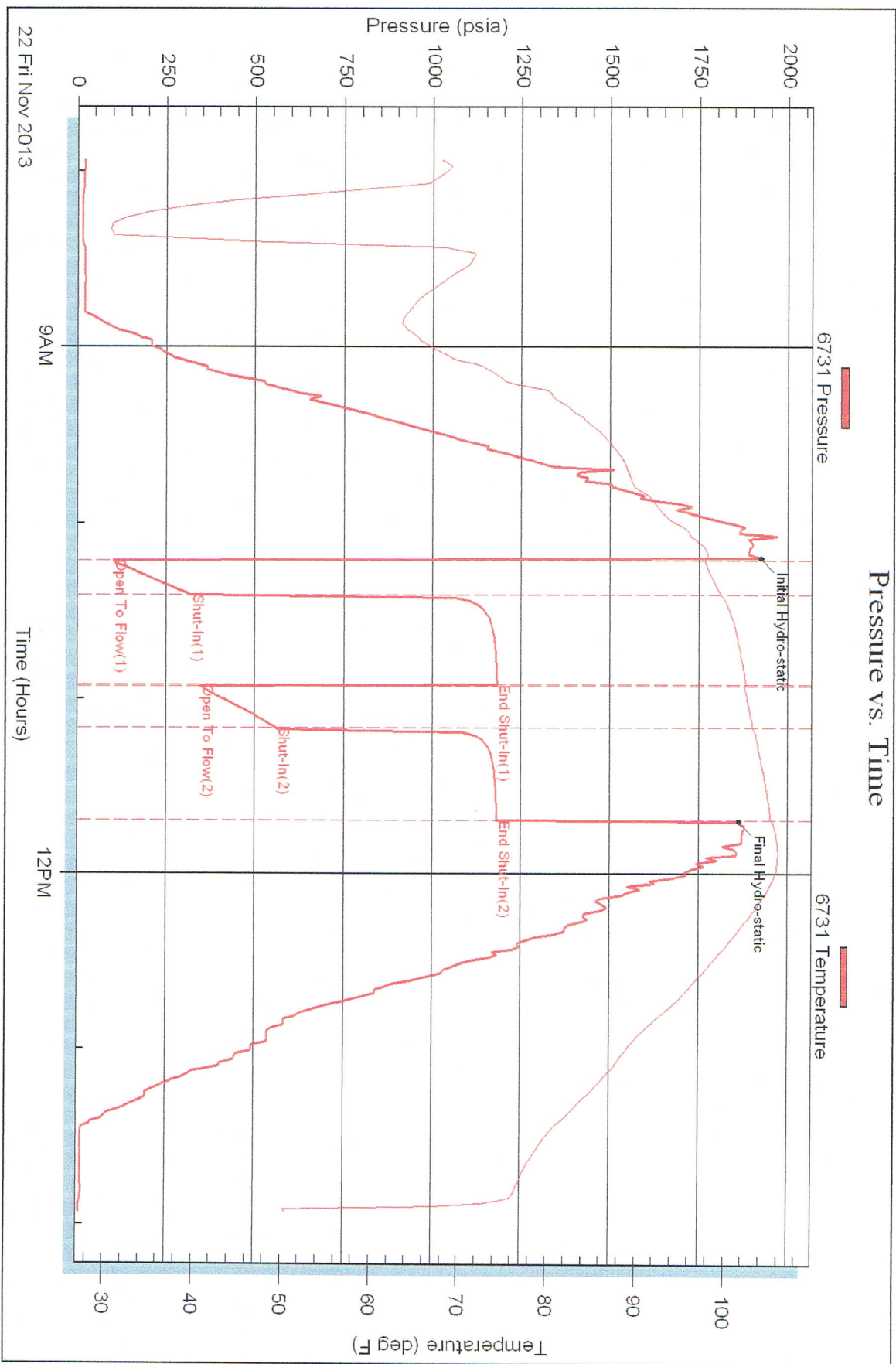
Serial #: 6731

Inside

Anderson Exploration

Schuck B-1

DST Test Number: 2



Superior Testers Enterprises LLC

Ref. No: 18463

Printed: 2013.11.22 @ 14:12:18

| LITHOLOGIC LOG | | | | | | | ROBERT HOPKINS-consulting geologist | | | | | | |
|--------------------------------------|---|---|--|---|-----------------|---|-------------------------------------|------------|------------|--|--|--|--|
| Operator <u>D & D PRODUCTION</u> | | | Location <u>SE SW NE</u> <u>SEC. 13-5s-23W</u> | | | | | | | | | | |
| Lease / Well <u>'Schuck B-1</u> | | | County <u>NORTON</u> | | State <u>KS</u> | | scale 1" = 20' | | | | | | |
| GL <u>KB 2140'</u> (measure from) | | | depth this sheet - from <u>3180</u> to <u>3360</u> | | | | page 2 of 5 | | | | | | |
| DRILLING TIME (min/ft) | | | | | | | DEPTH | tops shows | lith graph | DESCRIPTION (lithology, DSTs, mud properties) | | | |
| 0.5 | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | | |
| | | | | | | | 80 | | LA AI | wh. fine lst., n.s., cherty blk sh. | | | |
| | | | | | | | 3200 | | | wh fine lst., n.s., very cherty grn-gry sh. to sdy sh. | | | |
| | | | | | | | Lc | | | Lecompton 3219' MUD VIS 58; WT 8.8 grn sh. | | | |
| | | | | | | | | | | wh fine lst., n.s. ↓ a/a, sh. cherty, n.s. | | | |
| | | | | | | | 50 | | | blk sh., pyritic bf fine lst., very foss., tite, n.s. | | | |
| | | | | | | | | | | a/a, w/some sp, n.s.; sh. cherty | | | |
| | | | | | | | Hb | | | Heebster Sh. 3294(-1156) bf-gry tite lst., n.s., sh. foss. to granular blk carbonaceous sh., pyritic | | | |
| | | | | | | | 3300 | | | bf fine lst., n.s. grn sh - sdy sh, trc wh lst., n.s. | | | |
| | | | | | | | Ter | | | Toronto 3322' Lansing 3336(-1198) bf fine lst., cherty, tite, n.s. | | | |
| | | | | | | | LKC | | | dk grn sh. wh calcitic/foss. lst., tite, n.s. | | | |
| | | | | | | | A | | | MUD VIS 63; WT 8.9 | | | |
| | | | | | | | 50 | | | wh fine med. lst., tite, n.s. | | | |
| | | | | | | | B | | | | | | |
| | | | | | | | 60 | | | grn sh. | | | |

LITHOLOGIC LOG

ROBERT HOPKINS-consulting geologist

Operator D & D PRODUCTION

Location SE SW NE SEC. 13-5s-23w

Lease / Well Schuck B-1

County NORTON State KS

scale 1" = 20'

GL KB 2140' (measure from)

depth this sheet - from 3540' to 3720'

page 4 of 5

| DRILLING TIME (min/ft) | | | | | | | DEPTH | tops shows | lith graph | DESCRIPTION (lithology, DSTs, mud properties) |
|------------------------|---|---|---|---|---|---|-------|------------|------------|--|
| 0.5 | 1 | 2 | 3 | 4 | 5 | 6 | | | | |
| | | | | | | | 40 | | | red-gry sh. Ft. Scott 3555' |
| | | | | | | | 50 | | | dk. gry sh. |
| | | | | | | | FS | | | wh-red oolitic lst., tite, n.s. mud vis 55; wt 9.0 |
| | | | | | | | | | | wh-fan oolitic lst., n.s. sl. φ |
| | | | | | | | | | | red-gry sh. |
| | | | | | | | | | | wh sdy oolitic lst., tite, n.s. |
| | | | | | | | | | | wh. sdy lst., tite, n.s. |
| | | | | | | | 3600 | | | red-gry sh. |
| | | | | | | | | | | wh conglomerate, tite, n.s. |
| | | | | | | | | | | red-gry sh. (mud vis 55; wt 9.3) |
| | | | | | | | | | | red sst., shaley, sl. φ, n.s. |
| | | | | | | | | | | red sh. |
| | | | | | | | | | | ↓ |
| | | | | | | | | | | red arkosic sst., n.s. |
| | | | | | | | 50 | | | red sh. |
| | | | | | | | | | | red sh. sst., n.s. |
| | | | | | | | | | | red sh. |
| | | | | | | | | | | ↓ |
| | | | | | | | Arb. | | | Arbuckle 3678(-1538) |
| | | | | | | | CFS | | | white granular dolomite, fair φ, n.s. sl. cherty |
| | | | | | | | | | | red sh. |
| | | | | | | | 3700 | | | red limy sst., sl. φ, n.s.; argillaceous |
| | | | | | | | | | | wh granular to sacrosic dolomite; mc φ, n.s. |
| | | | | | | | 20 | | | |

brakes
not
working!

