



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1090624

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

| | |
|---|---|
| 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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 |
| _____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone | | | | |
| | | | | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other (Explain) _____

| | | | | | |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|

| | | |
|---|---|--|
| 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> <input type="checkbox"/> Other (Specify) _____ | PRODUCTION INTERVAL: _____ _____ |
|---|---|--|

| | |
|-----------|---------------------------|
| Form | ACO1 - Well Completion |
| Operator | Liberty Oper & Compl, Inc |
| Well Name | Ganoung 1 |
| Doc ID | 1090624 |

All Electric Logs Run

| |
|---------|
| |
| CDL/DNL |
| Micro |
| DIL |
| Sonic |

| | |
|-----------|---------------------------|
| Form | ACO1 - Well Completion |
| Operator | Liberty Oper & Compl, Inc |
| Well Name | Ganoung 1 |
| Doc ID | 1090624 |

Tops

| Name | Top | Datum |
|--------------|------|-------|
| Anhydrite | 1638 | +744 |
| Topeka | 3079 | -967 |
| Heebner | 3304 | -1192 |
| Toronto | 3323 | -1211 |
| L/KC A | 3345 | -1233 |
| Stark Shale | 3539 | -1427 |
| b/KC | 3597 | -1485 |
| Conglonerate | 3605 | -1493 |
| Arbuckle | 3722 | -1610 |

| | |
|-----------|---------------------------|
| Form | ACO1 - Well Completion |
| Operator | Liberty Oper & Compl, Inc |
| Well Name | Ganoung 1 |
| Doc ID | 1090624 |

Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | Type Of Cement | Number of Sacks Used | Type and Percent Additives |
|--------------------|-------------------|-----------------|--------|---------------|----------------|----------------------|--|
| Surface | 12.2500 | 8.6250 | 20 | 226 | Common | 150 | 3 % CC 2 % Gel |
| Production | 7.8750 | 5.5000 | 15.50 | 1870 | Common | 425 | 10% salt 2 % Gel |
| Production | 7.8750 | 5.5000 | 15.50 | 3798 | Common | 150 | 60/40 poz 6 % Gel 1/4 lb flow seal |
| Cement Cirrculated | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

ALLIED CEMENTING CO., LLC. 038273

Federal Tax I.D.# 20-5975804

REMIT TO: P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Russell

| | | | | | | | |
|-------------------------|-----------------|----------------------------------|-------------------|----------------------|-------------|-----------------------|-----------------------|
| DATE <u>9/21/11</u> | SEC. <u>28</u> | TWP. <u>10</u> | RANGE <u>17 W</u> | CALLED OUT | ON LOCATION | JOB START 4-28-11 | JOB FINISH 5-29-11 |
| LEASE <u>Common</u> | WELL # <u>1</u> | LOCATION <u>Private 540 Road</u> | | | | COUNTY <u>LeFlore</u> | STATE <u>Ks</u> |
| OLD OR NEW (Circle one) | | | | <u>3125 Road 540</u> | | | |

CONTRACTOR Tornad Drilling OWNER _____
 TYPE OF JOB Ordinary Well
 HOLE SIZE 8 1/2" T.D. _____
 CASING SIZE 6 1/2" DEPTH 226.00
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 13.47

EQUIPMENT

PUMP TRUCK CEMENTER Steve
 # 406 HELPER Tony
 BULK TRUCK DRIVER Mark
 BULK TRUCK # _____ DRIVER _____

REMARKS:

Per S. Anderson
Call for
Call for
Call for
Call for
Call for
Call for

CHARGE TO: Chalky Operation
 STREET _____
 CITY _____ STATE _____ ZIP _____

Mark

To Allied Cementing Co., 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 Robert Brown

CEMENT AMOUNT ORDERED 29.61

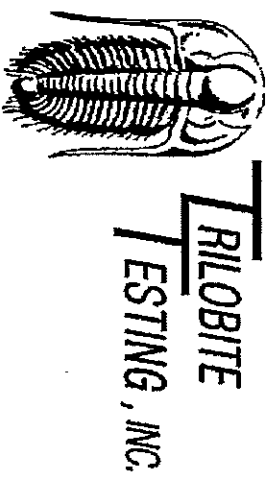
COMMON @ _____
 POZMIX @ _____
 GEL @ _____
 CHLORIDE @ _____
 ASC @ _____

HANDLING @ _____
 MILEAGE @ _____
 TOTAL _____

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: **Liberty Operation & Completion**

100 SW 9th Street
Plainville, KS 67663

ATTN: Tony Richardson

Ganoung #1

28-10s-17w Rooks,KS

Start Date: 2011.09.27 @ 12:50:03

End Date: 2011.09.27 @ 21:44:33

Job Ticket #: 44619 DST #: 1

TriLOBITE Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.10.06 @ 13:42:23



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Liberty Operation & Completion

28-10s-17w Rooks,KS

100 SW 9th Street
Fairville, KS 67663

Ganoung #1

Job Ticket 44619

DST#:1

ATTN: Tony Richardson

Test Start: 2011.09.27 @ 12:50:03

GENERAL INFORMATION:

Formation: KC^{EE}"
Deviated: No Whipstock ft (KB)
Time Tool Opened: 15:47:33
Time Test Ended: 21:44:33
Interval: 3406.00 ft (KB) To 3517.00 ft (KB) (TVD)
Total Depth: 3517.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches/Hole Condition: Fair

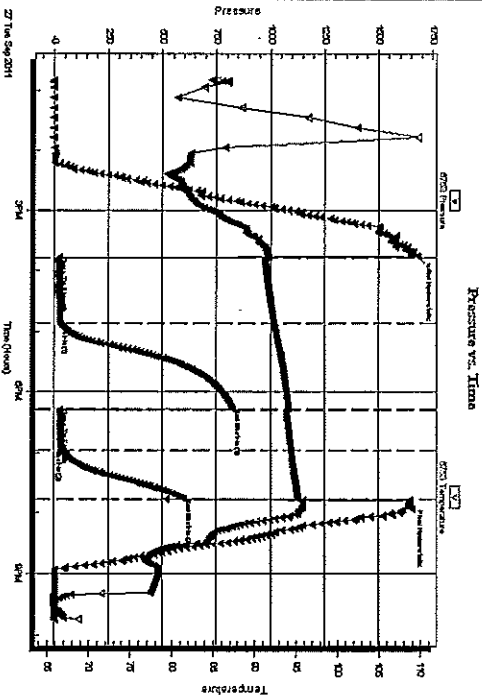
Test Type: Conventional Bottom Hole (Initial)
Tester: Brett Dickinson
Unit No: 47
Reference Elevations: 2112.00 ft (KB)
2104.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6753 Inside
Press@RunDepth: 38.97 psig @ 3407.00 ft (KB)
Start Date: 2011.09.27 End Date:
Start Time: 12:50:08 End Time:

Capacity: 8000.00 psig
Last Calib.: 2011.09.27
Time On Bit: 2011.09.27 @ 15:45:33
Time Off Bit: 2011.09.27 @ 19:50:03

TEST COMMENT:

IF-1/2 in blow died in 50 min
ISL-No blow
FF-No blow
FSL-No blow



PRESSURE SUMMARY

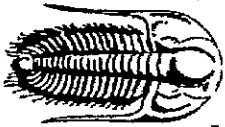
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1678.73 | 91.62 | Initial Hydro-static |
| 2 | 23.49 | 91.28 | Open To Flow (1) |
| 67 | 28.23 | 92.37 | Shut-In(1) |
| 151 | 825.95 | 94.10 | End Shut-In(1) |
| 152 | 28.34 | 93.87 | Open To Flow (2) |
| 192 | 38.97 | 94.38 | Shut-In(2) |
| 241 | 600.63 | 95.23 | End Shut-In(2) |
| 245 | 1639.56 | 95.79 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------|--------------|
| 15.00 | VSOOM 5%O 95%MI | 0.21 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Liberty Operation & Completion

28-10S-17W Rooks,KS

100 SW 9th Street
Painville, KS 67663

Ganoung #1

Job Ticket: 44619

DST#: 1

ATTN: Tony Richardson

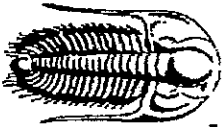
Test Start: 2011.09.27 @ 12:50:03

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|-------------------|-----------------------------------|
| Drill Pipe: | Length: 3390.00 ft | Diameter: 3.80 inches | Volume: 47.55 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.70 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: 35000.00 lb |
| | | <u>Total Volume:</u> | <u>47.55 bbl</u> | <u>Tool Crased</u> |
| Drill Pipe Above KB: | 5.00 ft | | | String Weight Initial 35000.00 lb |
| Depth to Top Packer: | 3406.00 ft | | | Final 35000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 111.00 ft | | | |
| Tool Length: | 132.00 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 | | | 3386.00 | |
| Shut In Tool | 5.00 | | | 3391.00 | |
| Hydraulic tool | 5.00 | | | 3396.00 | |
| Packer | 5.00 | | | 3401.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3406.00 | |
| Stub | 1.00 | | | 3407.00 | |
| Recorder | 0.00 | 6753 | Inside | 3407.00 | |
| Recorder | 0.00 | 8319 | Outside | 3407.00 | |
| Perforations | 5.00 | | | 3412.00 | |
| Change Over Sub | 1.00 | | | 3413.00 | |
| Drill Pipe | 92.00 | | | 3505.00 | |
| Change Over Sub | 1.00 | | | 3506.00 | |
| Perforations | 8.00 | | | 3514.00 | |
| Bullnose | 3.00 | | | 3517.00 | 111.00 Bottom Packers & Anchor |
| Total Tool Length: | | | | 132.00 | |



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Liberty Operation & Completion
100 SW 9th Street
Plainville, KS 67663
ATTN: Tony Richardson

28-10s-17w Rooks,KS
Ganoung #1
Job Ticket: 44619 DST#:1
Test Start: 2011.09.27 @ 12:50:03

Mud and Cushion Information

| | | | |
|----------------------------------|------------------------|-----------------|---------|
| Mud Type: Gel Chem | Question Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Question Length: | Water Salinity: | ppm |
| Viscosity: 60.00 sec/qt | Question Volume: | | |
| Water Loss: 7.97 in ³ | Gas Question Type: | | |
| Resistivity: ohm m | Gas Question Pressure: | | psig |
| Salinity: 1000.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------|---------------|
| 15.00 | VSOQM 5%O 95%M | 0.210 |

Total Length: 15.00 ft Total Volume: 0.210 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

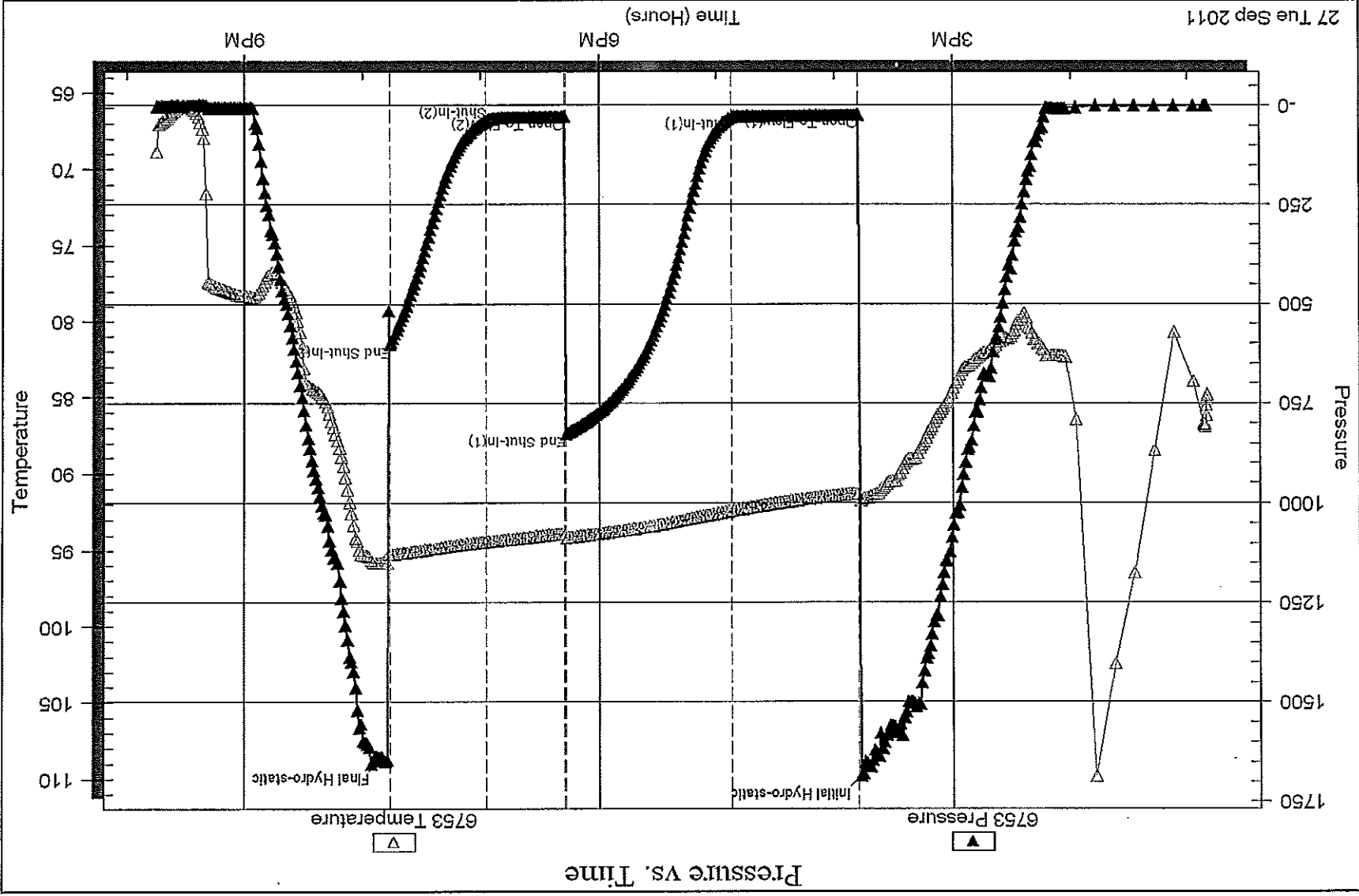
Serial #: 6753

Inside

Liberty Operation & Completion

Gunong #1

DST Test Number: 1



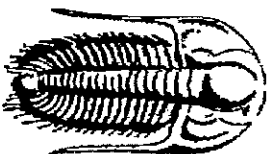
27 Tue Sep 2011

3PM

6PM

9PM

Pressure vs. Time



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Liberty Operation & Completion**

100 SW 9th Street
Plainville, KS 67663

ATTN: Tony Richardson

Ganoung #1

28-10s-17w Rooks,KS

Start Date: 2011.09.28 @ 11:30:28

End Date: 2011.09.28 @ 21:13:28

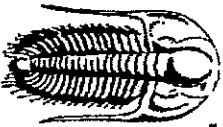
Job Ticket #: 44620 DST #: 2

Trilobite Testing, Inc

P O Box 362 Hays, KS 67601

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

Printed: 2011.10.06 @ 13:42:44



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Liberty Operation & Completion
100 SW 9th Street
Rainville, KS 67663
ATTN: Tony Richardson

28-10s-17w Rooks, KS
Ganoung #1
Job Ticket: 44620
DST#: 2
Test Start: 2011.09.28 @ 11:30:28

GENERAL INFORMATION:

Formation: KC "J,K,L Cong."
Deviated: No Whipstock
Time Tool Opened: 14:14:28
Time Test Ended: 21:13:28
Interval: 3508.00 ft (KB) To 3622.00 ft (KB) (TVD)
Total Depth: 3622.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches/Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)
Tester: Brett Dickinson
Unit No: 47

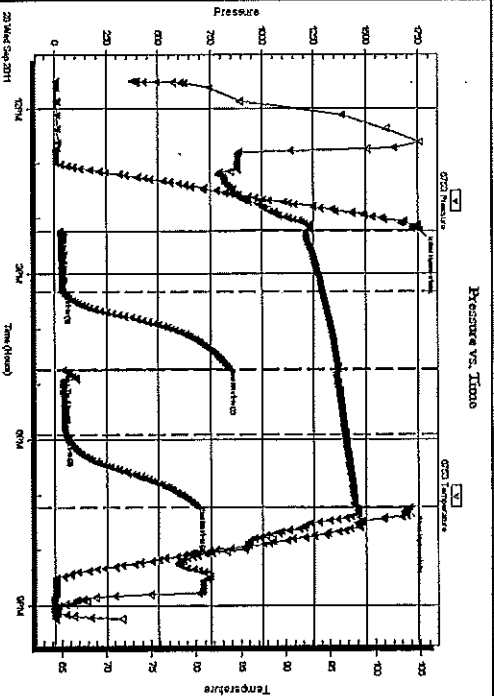
Reference Elevations: 2112.00 ft (KB)
2104.00 ft (CF)
KB to GRQC: 8.00 ft

Serial #: 6753 Inside
Press@RunDepth: 53.13 psig @ 3509.00 ft (KB)
Start Date: 2011.09.28 End Date: 2011.09.28
Start Time: 11:30:33 End Time: 21:13:28

Capacity: 8000.00 psig
Last Calib.: 2011.09.28
Time On Btm: 2011.09.28 @ 14:12:58
Time Off Btm: 2011.09.28 @ 19:16:28

TEST COMMENT:

IF-2.25 in blow
ISL-1/2 in blow died in 65 min
FF-1/2 in blow died back to 1/4 in
FSI-No blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1760.27 | 92.76 | Initial Hydro-static |
| 2 | 29.29 | 92.31 | Open To Flow (1) |
| 67 | 40.06 | 94.10 | Shut-In(1) |
| 151 | 838.54 | 95.89 | End Shut-In(1) |
| 152 | 41.94 | 95.71 | Open To Flow(2) |
| 222 | 53.13 | 96.64 | Shut-In(2) |
| 301 | 685.96 | 97.70 | End Shut-In(2) |
| 304 | 1698.81 | 98.05 | Final Hydro-static |

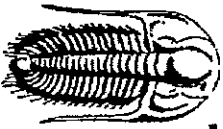
Recovery

| Length (ft) | Description | Volume (bb) |
|-------------|------------------|-------------|
| 50.00 | SOOM 10%O 90%A/M | 0.70 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



TRIBOLITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Liberty Operation & Completion

28-10s-17w Rooks,KS

100 SW 9th Street
Rainville, KS 67663

Ganoung #1

Job Ticket: 44620

DST#: 2

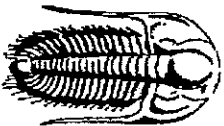
ATTN: Tony Richardson

Test Start: 2011.09.28 @ 11:30:28

Tool Information

| | | | | | | | |
|---------------------------|--------------------|-----------|-------------|---------------|-----------|------------------------|-------------|
| Drill Pipe: | Length: 3514.00 ft | Diameter: | 3.80 inches | Volume: | 49.29 bbl | Tool Weight: | 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: | 2.70 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: | 35000.00 lb |
| | | | | Total Volume: | 49.29 bbl | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 27.00 ft | | | | | String Weight: Initial | 35000.00 lb |
| Depth to Top Packer: | 3508.00 ft | | | | | Final | 35000.00 lb |
| Depth to Bottom Packer: | ft | | | | | | |
| Interval between Packers: | 114.00 ft | | | | | | |
| Tool Length: | 135.00 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 | | | 3488.00 | |
| Shut In Tool | 5.00 | | | 3493.00 | |
| Hydraulic tool | 5.00 | | | 3498.00 | |
| Packer | 5.00 | | | 3503.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3508.00 | |
| Stub | 1.00 | | | 3509.00 | |
| Recorder | 0.00 | 6753 | Inside | 3509.00 | |
| Recorder | 0.00 | 8319 | Outside | 3509.00 | |
| Perforations | 7.00 | | | 3516.00 | |
| Change Over Sub | 1.00 | | | 3517.00 | |
| Drill Pipe | 93.00 | | | 3610.00 | |
| Change Over Sub | 1.00 | | | 3611.00 | |
| Perforations | 8.00 | | | 3619.00 | |
| Bullnose | 3.00 | | | 3622.00 | 114.00 Bottom Packers & Anchor |
| Total Tool Length: | | | | 135.00 | |



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Liberty Operation & Completion
100 SW 9th Street
Painville, KS 67663
ATTN: Tony Richardson

28-10s-17w Rooks, KS
Ganoung #1
Job Ticket: 44620 **DST#: 2**
Test Start: 2011.09.28 @ 11:30:28

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/cst
Water Loss: 8.77 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: ppm

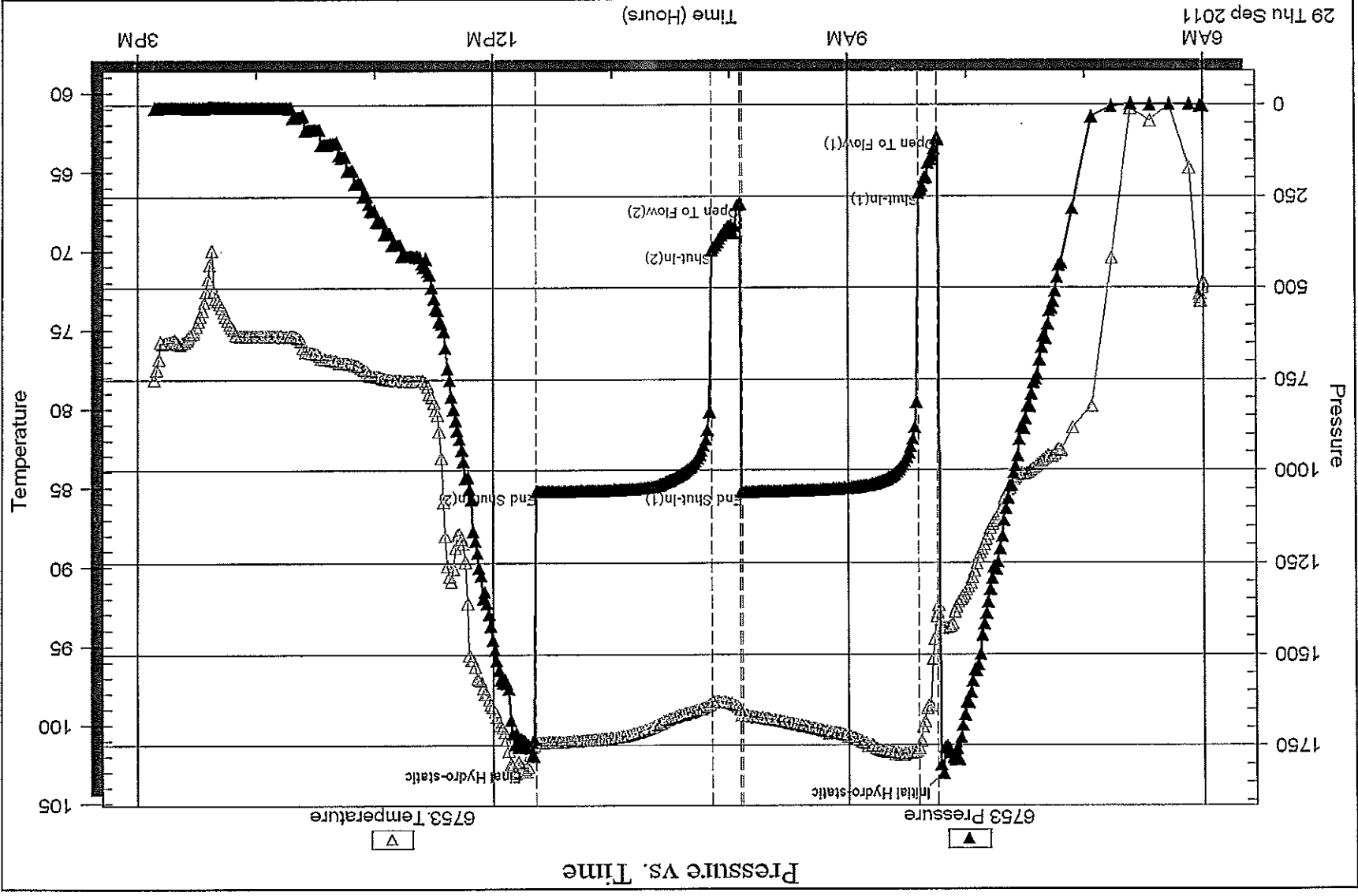
Recovery Information

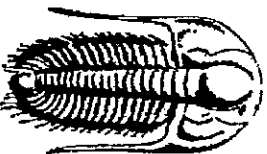
Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------|---------------|
| 50.00 | SOCM 10%O 90%M | 0.704 |

Total Length: 50.00 ft Total Volume: 0.704 bbl

Nun Fluid Samples: 0 Nun Gas Borbs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Liberty Operation & Completion**

100 SW 9th Street
Plainville, KS 67663

ATTN: Tony Richardson

Ganoung #1

28-10s-17w Rooks,KS

Start Date: 2011.09.29 @ 05:59:42

End Date: 2011.09.29 @ 14:51:12

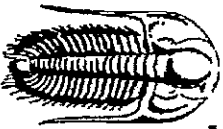
Job Ticket #: 44621 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.10.06 @ 13:43:03



TRIBOLITE
TESTING, INC

DRILL STEM TEST REPORT

Liberty Operation & Completion

28-10s-17w Rooks,KS

100 SW 9th Street
Painville, KS 67663

Ganoung #1

Job Ticket: 44621

DST#:3

ATTN: Tony Richardson

Test Start: 2011.09.29 @ 05:59:42

GENERAL INFORMATION:

Formation: Conglomerate
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 08:14:42
 Time Test Ended: 14:51:12
 Interval: 3556.00 ft (KB) To 3682.00 ft (KB) (TVD)
 Total Depth: 3682.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches-Hole Condition: Fair

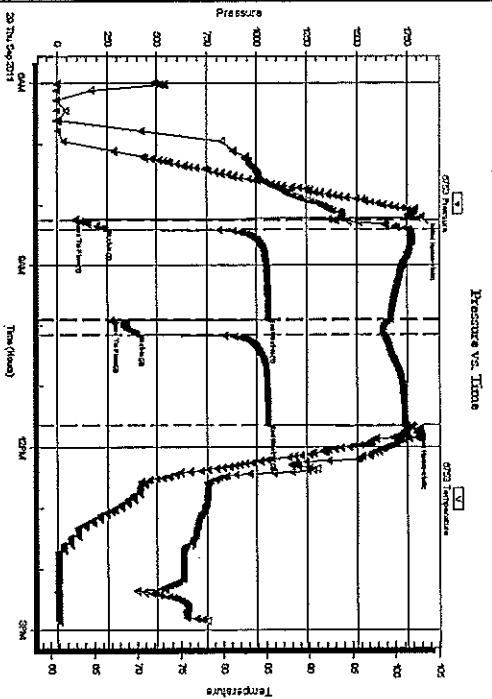
Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 47
 Reference Elevations: 2112.00 ft (KB)
 2104.00 ft (CF)
 KB to GRCE: 8.00 ft

Serial #: 6753 Inside
 Press@RunDepth: 398.72 psig @ 3557.00 ft (KB)
 Start Date: 2011.09.29 End Date:
 Start Time: 05:59:47 End Time:

Capacity: 8000.00 psig
 Last Callb.: 2011.09.29
 Time On Btm: 2011.09.29 @ 08:12:12
 Time Off Btm: 2011.09.29 @ 11:39:42

TEST COMMENT:

IF-BOB in 2 min
 ISL-No blow
 FF-BOB in 2 min
 FSL-No blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1824.13 | 93.87 | Initial Hydro-static |
| 3 | 87.88 | 92.83 | Open To Flow (1) |
| 12 | 239.97 | 101.47 | Shut-In (1) |
| 102 | 1057.78 | 99.35 | End Shut-In (1) |
| 103 | 271.18 | 99.02 | Open To Flow (2) |
| 117 | 398.72 | 98.49 | Shut-In (2) |
| 206 | 1055.49 | 101.09 | End Shut-In (2) |
| 208 | 1777.19 | 101.32 | Final Hydro-static |

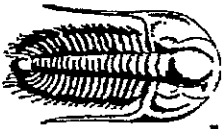
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------|--------------|
| 45.00 | SOCM 10%O 90%AM | 0.63 |
| 60.00 | OCM 30%O 70%AM | 0.84 |
| 120.00 | MCO 80%O 20%AM | 1.88 |
| 625.00 | GO 20%G 80%O | 8.77 |

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Liberty Operation & Completion
100 SW 9th Street
Fairville, KS 67663
ATTN: Tony Richardson

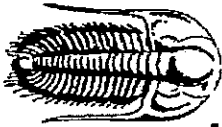
28-10s-17w Rooks, KS
Ganoung #1
Job Ticket: 44621
DST#: 3
Test Start: 2011.09.29 @ 05:59:42

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|-------------------------|------------------------------------|
| Drill Pipe: | Length: 3546.00 ft | Diameter: 3.80 inches | Volume: 49.74 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.70 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: 40000.00 lb |
| | | | Total Volume: 49.74 bbl | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 11.00 ft | | | String Weight: Initial 35000.00 lb |
| Depth to Top Packer: | 3556.00 ft | | | Final 38000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 126.00 ft | | | |
| Tool Length: | 147.00 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 | | | 3536.00 | |
| Shut In Tool | 5.00 | | | 3541.00 | |
| Hydraulic tool | 5.00 | | | 3546.00 | |
| Packer | 5.00 | | | 3551.00 | 21.00 |
| | | | | | Bottom Of Top Packer |
| Packer | 5.00 | | | 3556.00 | |
| Slubb | 1.00 | | | 3557.00 | |
| Recorder | 0.00 | 6753 | Inside | 3557.00 | |
| Recorder | 0.00 | 8319 | Outside | 3557.00 | |
| Perforations | 7.00 | | | 3564.00 | |
| Change Over Sub | 1.00 | | | 3565.00 | |
| Drill Pipe | 93.00 | | | 3658.00 | |
| Change Over Sub | 1.00 | | | 3659.00 | |
| Perforations | 20.00 | | | 3679.00 | |
| Bitnose | 3.00 | | | 3682.00 | 126.00 |
| | | | | | Bottom Packers & Anchor |
| Total Tool Length: | | | | 147.00 | |



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Liberty Operation & Completion
100 SW 9th Street
Rainville, KS 67663
ATTN: Tony Richardson

28-10s-17w Rooks, KS
Ganoung #1
Job Ticket: 44621
DST#: 3
Test Start: 2011.09.29 @ 05:59:42

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/cf
Water Loss: 8.79 in³
Resistivity: ohmcm
Salinity: 1000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig
Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------|---------------|
| 45.00 | SOQM 10%O 90%M | 0.631 |
| 60.00 | OQM 30%O 70%M | 0.842 |
| 120.00 | MCO 80%O 20%M | 1.683 |
| 625.00 | GO 20%G 80%O | 8.767 |

Total Length: 850.00 ft Total Volume: 11.923 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #
Laboratory Name: Laboratory Location:
Recovery Comments:

