



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1214204
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: _____

1214204

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

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

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

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

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

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|---|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate | | | | |
| <input type="checkbox"/> Protect Casing | | | | |
| <input type="checkbox"/> Plug Back TD | | | | |
| <input type="checkbox"/> Plug Off Zone | | | | |

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

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

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

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

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

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

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

| | | |
|--|---|---|
| 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"/> Commingled <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

| | |
|-----------|--------------------------|
| Form | ACO1 - Well Completion |
| Operator | Landmark Resources, Inc. |
| Well Name | Rose 1-31 |
| Doc ID | 1214204 |

All Electric Logs Run

| |
|--------------------------------|
| |
| Dual Compensated Porosity Log |
| Microresistivity Log |
| Dual Induction Log |
| Borehole Compensated Sonic Log |

| | |
|-----------|--------------------------|
| Form | ACO1 - Well Completion |
| Operator | Landmark Resources, Inc. |
| Well Name | Rose 1-31 |
| Doc ID | 1214204 |

Tops

| Name | Top | Datum |
|----------------|------|-------|
| Anhydrite | 2430 | 670 |
| B/Anhydrite | 2449 | 651 |
| Topeka | 3752 | -652 |
| Heebner | 3988 | -888 |
| Toronto | 4007 | -907 |
| Lansing | 4032 | -932 |
| C | 4072 | -972 |
| D | 4086 | -986 |
| E | 4123 | -1023 |
| F | 4136 | -1036 |
| Muncie Creek | 4218 | -1118 |
| H | 4230 | -1130 |
| I | 4259 | -1159 |
| J | 4292 | -1192 |
| Stark Shale | 4320 | -1220 |
| K | 4328 | -1228 |
| L | 4377 | -1277 |
| BKC | 4408 | -1308 |
| Marmaton | 4462 | -1362 |
| Altamont | 4495 | -1395 |
| Pawnee | 4540 | -1440 |
| Myrick Station | 4578 | -1478 |
| Fort Scott | 4591 | -1491 |
| Cherokee | 4620 | -1520 |

| | |
|-----------|--------------------------|
| Form | ACO1 - Well Completion |
| Operator | Landmark Resources, Inc. |
| Well Name | Rose 1-31 |
| Doc ID | 1214204 |

Tops

| Name | Top | Datum |
|--------------|------|-------|
| Johnson Zone | 4664 | -1564 |
| Up Morrow Sd | 4808 | -1708 |
| Missippian | 4815 | -1715 |



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd. Suite 600
Houston, TX 77057

ATTN: Terry McLeod

Rose #1-31

S31-16s-33w Scott,KS

Start Date: 2014.05.23 @ 06:06:00

End Date: 2014.05.23 @ 11:41:30

Job Ticket #: 57691 DST #: 1

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

Printed: 2014.05.28 @ 08:41:50

Landmark Resources Inc.

S31-16s-33w Scott,KS

Rose #1-31

DST # 1

Marmaton, Altamont

2014.05.23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources Inc.

S31-16s-33w Scott,KS

1616 S. Voss Rd. Suite 600
Houston, TX 77057

Rose #1-31

Job Ticket: 57691

DST#: 1

ATTN: Terry McLeod

Test Start: 2014.05.23 @ 06:06:00

GENERAL INFORMATION:

Formation: **Marmaton, Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:02:20

Time Test Ended: 11:41:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 62

Interval: 4433.00 ft (KB) To 4545.00 ft (KB) (TVD)

Reference Elevations: 3100.00 ft (KB)

Total Depth: 4545.00 ft (KB) (TVD)

3095.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8357 Inside

Press@RunDepth: psig @ 4435.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.23

End Date:

2014.05.23

Last Calib.: 1899.12.30

Start Time: 06:06:02

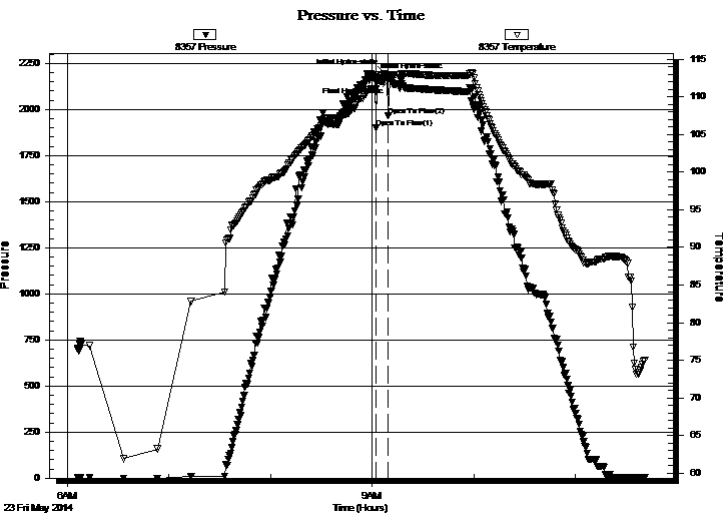
End Time:

11:41:30

Time On Btm: 2014.05.23 @ 09:00:50

Time Off Btm: 2014.05.23 @ 09:10:20

TEST COMMENT: Packer seat failed twice, pulled tool.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2173.49 | 111.03 | Initial Hydro-static |
| 2 | 1898.93 | 111.01 | Open To Flow (1) |
| 7 | 2195.48 | 112.72 | Initial Hydro-static |
| 9 | 1967.48 | 112.54 | Open To Flow (2) |
| 10 | 2161.78 | 112.98 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 220.00 | M 100m | 3.09 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

S31-16s-33w Scott,KS

1616 S. Voss Rd. Suite 600
Houston, TX 77057

Rose #1-31

Job Ticket: 57691

DST#: 1

ATTN: Terry McLeod

Test Start: 2014.05.23 @ 06:06:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 4438.00 ft | Diameter: 3.80 inches | Volume: 62.25 bbl | Tool Weight: | 2300.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 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: | 75000.00 lb |
| | | | <u>Total Volume: 62.25 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 32.50 ft | | | String Weight: Initial | 66000.00 lb |
| Depth to Top Packer: | 4433.00 ft | | | Final | 67000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 112.00 ft | | | | |
| Tool Length: | 139.50 ft | | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|---------------|------------|----------|------------|--------------------------------|
| Change Over Sub | 1.00 | | | 4406.50 | |
| Shut In Tool | 5.00 | | | 4411.50 | |
| Hydraulic tool | 5.00 | | | 4416.50 | |
| Jars | 5.00 | | | 4421.50 | |
| Safety Joint | 2.50 | | | 4424.00 | |
| Packer | 5.00 | | | 4429.00 | 27.50 Bottom Of Top Packer |
| Packer | 4.00 | | | 4433.00 | |
| Stubb | 1.00 | | | 4434.00 | |
| Perforations | 1.00 | | | 4435.00 | |
| Recorder | 0.00 | 8357 | Inside | 4435.00 | |
| Recorder | 0.00 | 8645 | Outside | 4435.00 | |
| Perforations | 11.00 | | | 4446.00 | |
| Change Over Sub | 1.00 | | | 4447.00 | |
| Drill Pipe | 94.00 | | | 4541.00 | |
| Change Over Sub | 1.00 | | | 4542.00 | |
| Bullnose | 3.00 | | | 4545.00 | 112.00 Bottom Packers & Anchor |
| Total Tool Length: | 139.50 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

S31-16s-33w Scott,KS

1616 S. Voss Rd. Suite 600
Houston, TX 77057

Rose #1-31

Job Ticket: 57691

DST#: 1

ATTN: Terry McLeod

Test Start: 2014.05.23 @ 06:06:00

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:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 220.00 | M 100m | 3.086 |

Total Length: 220.00 ft Total Volume: 3.086 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

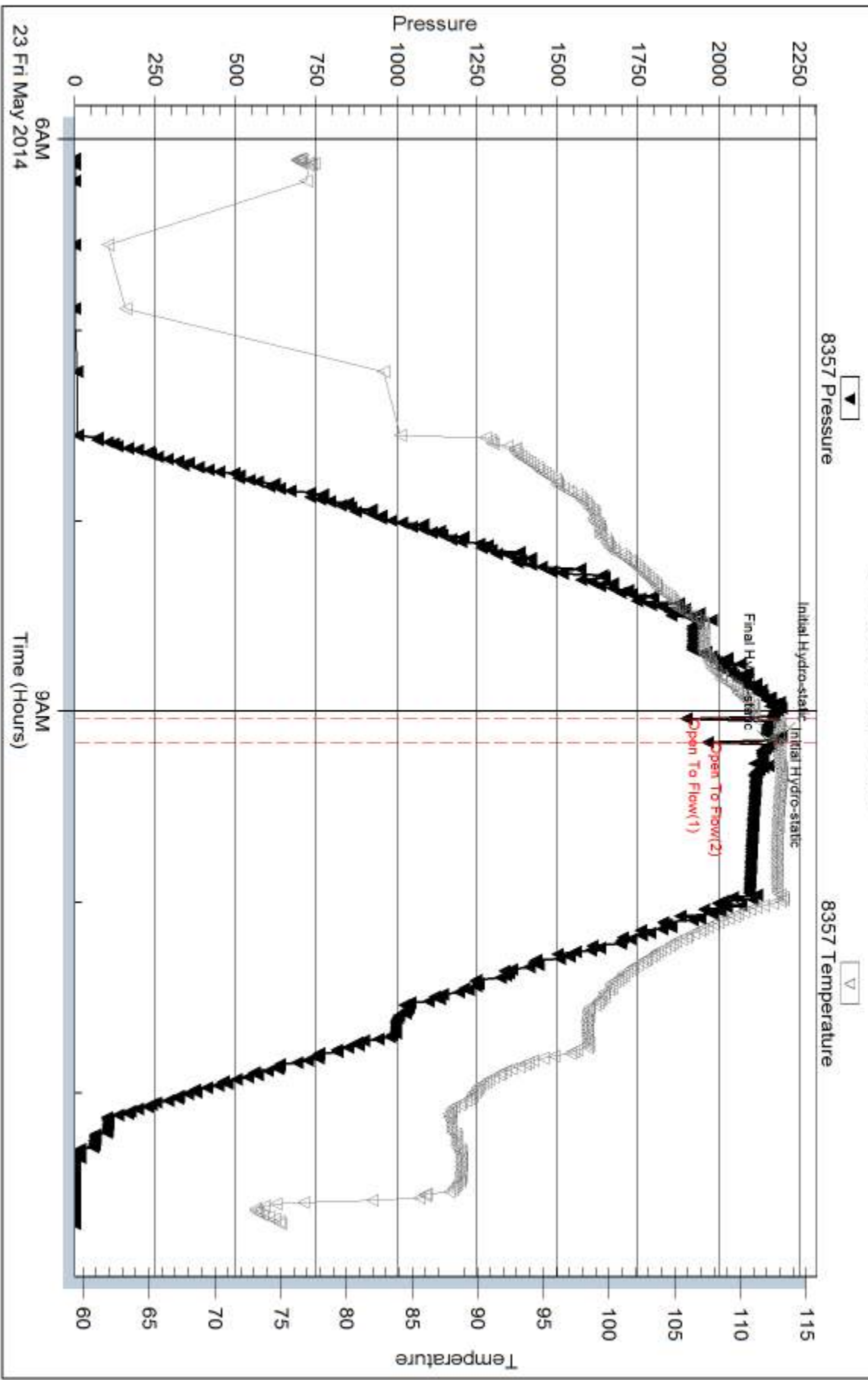
Serial #:

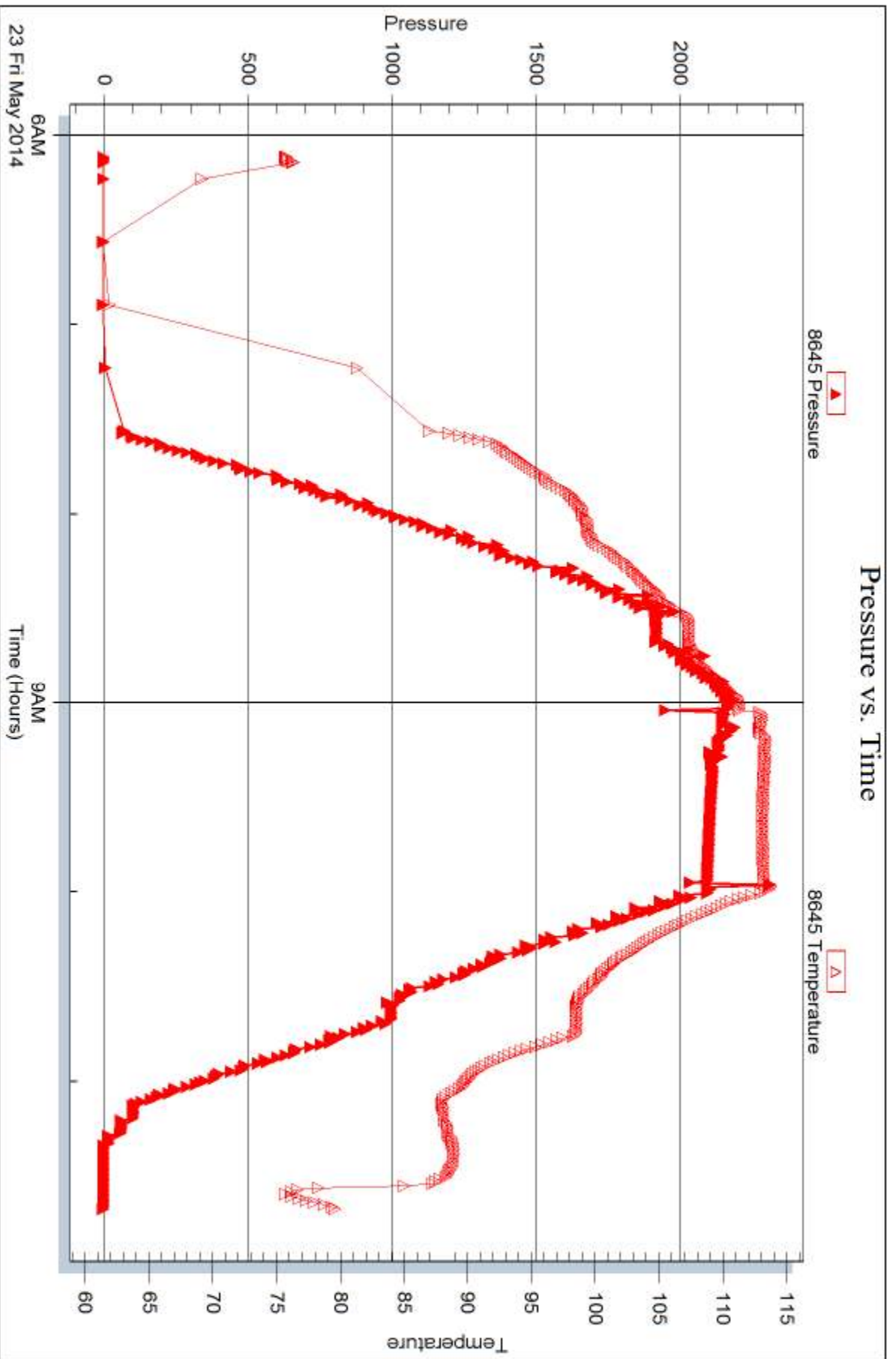
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd. Suite 600
Houston, TX 77057

ATTN: Terry McLeod

Rose #1-31

S31-16s-33w Scott,KS

Start Date: 2014.05.23 @ 12:02:00

End Date: 2014.05.23 @ 18:53:20

Job Ticket #: 57692 DST #: 2

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

Printed: 2014.05.28 @ 08:41:28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

S31-16s-33w Scott,KS

1616 S. Voss Rd. Suite 600
Houston, TX 77057

Rose #1-31

Job Ticket: 57692

DST#: 2

ATTN: Terry McLeod

Test Start: 2014.05.23 @ 12:02:00

GENERAL INFORMATION:

Formation: **Marmaton, Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:42:40

Time Test Ended: 18:53:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4469.00 ft (KB) To 4545.00 ft (KB) (TVD)

Reference Elevations: 3100.00 ft (KB)

Total Depth: 4545.00 ft (KB) (TVD)

3095.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8357 Inside

Press@RunDepth: 28.01 psig @ 4471.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.23

End Date:

2014.05.23

Last Calib.: 2014.05.23

Start Time: 12:02:02

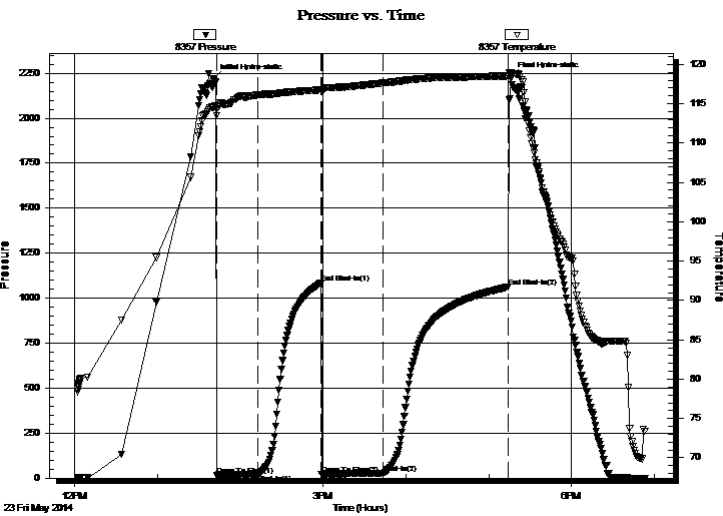
End Time:

18:53:19

Time On Btm: 2014.05.23 @ 13:40:20

Time Off Btm: 2014.05.23 @ 17:16:00

TEST COMMENT: 30- 1 1/2" Blow .
45- No return.
45- 4" Blow .
90- No return.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2218.00 | 114.59 | Initial Hydro-static |
| 3 | 16.08 | 113.45 | Open To Flow (1) |
| 33 | 21.64 | 116.12 | Shut-In(1) |
| 78 | 1083.49 | 116.76 | End Shut-In(1) |
| 79 | 19.51 | 116.58 | Open To Flow (2) |
| 124 | 28.01 | 117.63 | Shut-In(2) |
| 214 | 1062.18 | 118.54 | End Shut-In(2) |
| 216 | 2230.81 | 118.98 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 35.00 | gocm 15G 25O 60M | 0.49 |
| 0.00 | 30' GIP | 0.00 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

S31-16s-33w Scott,KS

1616 S. Voss Rd. Suite 600
Houston, TX 77057

Rose #1-31

Job Ticket: 57692

DST#: 2

ATTN: Terry McLeod

Test Start: 2014.05.23 @ 12:02:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4476.00 ft | Diameter: 3.80 inches | Volume: 62.79 bbl | Tool Weight: 2300.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: inches | Volume: 0.00 bbl | Weight set on Packer: 30000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 90000.00 lb |
| | | | <u>Total Volume: 62.79 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 29.50 ft | | | String Weight: Initial 68000.00 lb |
| Depth to Top Packer: | 4469.00 ft | | | Final 69000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 76.00 ft | | | |
| Tool Length: | 98.50 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 | | | 4447.50 | |
| Shut In Tool | 5.00 | | | 4452.50 | |
| Hydraulic tool | 5.00 | | | 4457.50 | |
| Safety Joint | 2.50 | | | 4460.00 | |
| Packer | 5.00 | | | 4465.00 | 22.50 Bottom Of Top Packer |
| Packer | 4.00 | | | 4469.00 | |
| Stubb | 1.00 | | | 4470.00 | |
| Perforations | 1.00 | | | 4471.00 | |
| Recorder | 0.00 | 8357 | Inside | 4471.00 | |
| Recorder | 0.00 | 6751 | Outside | 4471.00 | |
| Perforations | 6.00 | | | 4477.00 | |
| Change Over Sub | 1.00 | | | 4478.00 | |
| Drill Pipe | 63.00 | | | 4541.00 | |
| Change Over Sub | 1.00 | | | 4542.00 | |
| Bullnose | 3.00 | | | 4545.00 | 76.00 Bottom Packers & Anchor |

Total Tool Length: 98.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

S31-16s-33w Scott,KS

1616 S. Voss Rd. Suite 600
Houston, TX 77057

Rose #1-31

Job Ticket: 57692

DST#: 2

ATTN: Terry McLeod

Test Start: 2014.05.23 @ 12:02:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------|---------------|
| 35.00 | gocm 15G 25O 60M | 0.491 |
| 0.00 | 30' GIP | 0.000 |

Total Length: 35.00 ft Total Volume: 0.491 bbl

Num Fluid Samples: 0

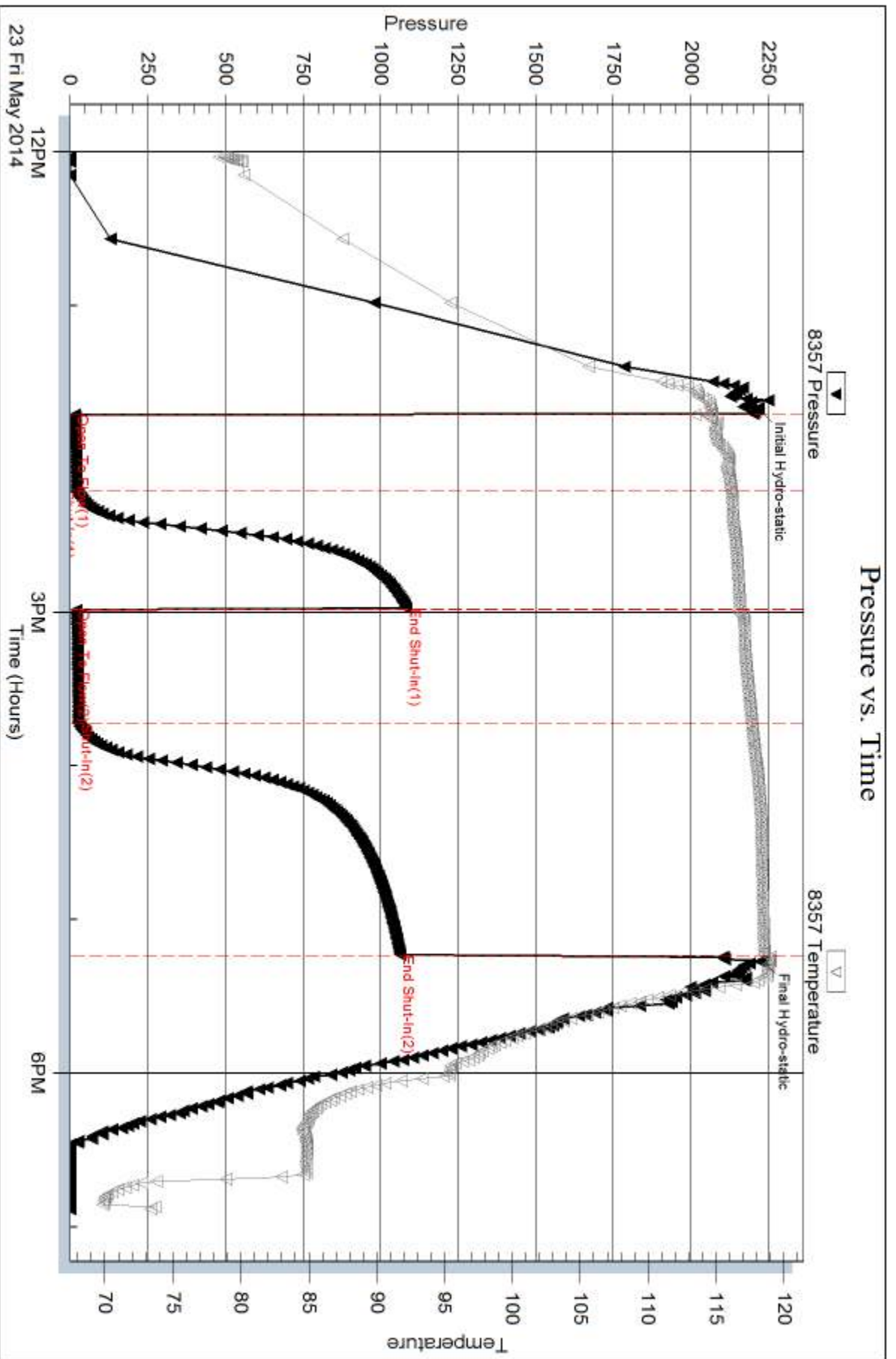
Num Gas Bombs: 0

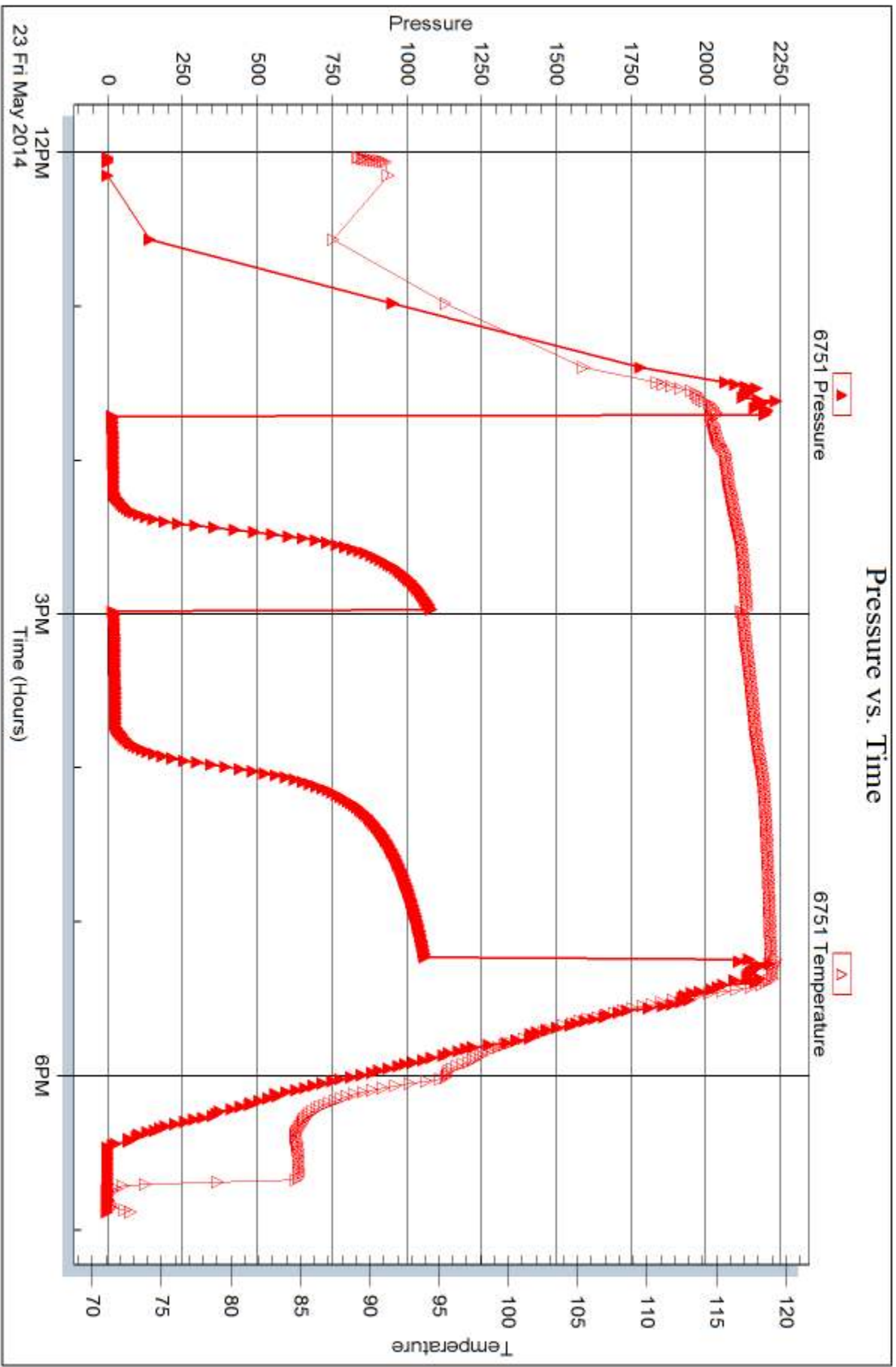
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 35 @ 80 Degrees F = 33







DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd. Suite 600
Houston, TX 77057

ATTN: Terry McLeod

Rose #1-31

S31-16s-33w Scott,KS

Start Date: 2014.05.24 @ 08:00:00

End Date: 2014.05.24 @ 16:10:39

Job Ticket #: 57693 DST #: 3

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

Printed: 2014.05.28 @ 08:41:05

Landmark Resources Inc.

S31-16s-33w Scott,KS

Rose #1-31

DST # 3

Mythic St. - Ft. Scot

2014.05.24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources Inc.

S31-16s-33w Scott,KS

1616 S. Voss Rd. Suite 600
Houston, TX 77057

Rose #1-31

Job Ticket: 57693

DST#: 3

ATTN: Terry McLeod

Test Start: 2014.05.24 @ 08:00:00

GENERAL INFORMATION:

Formation: **Myric St. - Ft. Scot**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:54:40

Time Test Ended: 16:10:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: **4568.00 ft (KB) To 4626.00 ft (KB) (TVD)**

Total Depth: 4626.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3100.00 ft (KB)

3095.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8357 Inside

Press@RunDepth: 21.53 psig @ 4570.00 ft (KB)

Start Date: 2014.05.24

End Date: 2014.05.24

Start Time: 08:00:02

End Time: 16:10:40

Capacity: 8000.00 psig

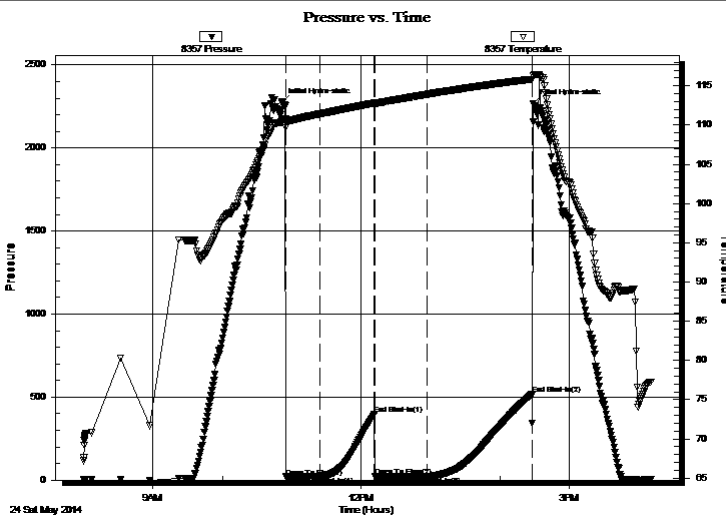
Last Calib.: 2014.05.24

Time On Btm: 2014.05.24 @ 10:51:30

Time Off Btm: 2014.05.24 @ 14:28:39

TEST COMMENT: 30- 1 1/4" Blow .
45- No return.
45- No blow .
90- No return.

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2274.39 | 110.54 | Initial Hydro-static |
| 4 | 19.96 | 109.63 | Open To Flow (1) |
| 33 | 22.10 | 111.42 | Shut-In(1) |
| 80 | 395.92 | 112.80 | End Shut-In(1) |
| 81 | 21.66 | 112.73 | Open To Flow (2) |
| 125 | 21.53 | 113.91 | Shut-In(2) |
| 216 | 515.38 | 115.85 | End Shut-In(2) |
| 218 | 2269.39 | 116.32 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 10.00 | OSM 100 M | 0.14 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

S31-16s-33w Scott,KS

1616 S. Voss Rd. Suite 600
Houston, TX 77057

Rose #1-31

Job Ticket: 57693

DST#: 3

ATTN: Terry McLeod

Test Start: 2014.05.24 @ 08:00:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 4576.00 ft | Diameter: 3.80 inches | Volume: 64.19 bbl | Tool Weight: | 2300.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 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: | 75000.00 lb |
| | | | <u>Total Volume: 64.19 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 35.50 ft | | | String Weight: Initial | 68000.00 lb |
| Depth to Top Packer: | 4568.00 ft | | | Final | 68000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 58.00 ft | | | | |
| Tool Length: | 85.50 ft | | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 4541.50 | |
| Shut In Tool | 5.00 | | | 4546.50 | |
| Hydraulic tool | 5.00 | | | 4551.50 | |
| Jars | 5.00 | | | 4556.50 | |
| Safety Joint | 2.50 | | | 4559.00 | |
| Packer | 5.00 | | | 4564.00 | 27.50 Bottom Of Top Packer |
| Packer | 4.00 | | | 4568.00 | |
| Stubb | 1.00 | | | 4569.00 | |
| Perforations | 1.00 | | | 4570.00 | |
| Recorder | 0.00 | 8357 | Inside | 4570.00 | |
| Recorder | 0.00 | 6751 | Outside | 4570.00 | |
| Perforations | 19.00 | | | 4589.00 | |
| Change Over Sub | 1.00 | | | 4590.00 | |
| Drill Pipe | 32.00 | | | 4622.00 | |
| Change Over Sub | 1.00 | | | 4623.00 | |
| Bullnose | 3.00 | | | 4626.00 | 58.00 Bottom Packers & Anchor |
| Total Tool Length: | 85.50 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

S31-16s-33w Scott,KS

1616 S. Voss Rd. Suite 600
Houston, TX 77057

Rose #1-31

Job Ticket: 57693

DST#: 3

ATTN: Terry McLeod

Test Start: 2014.05.24 @ 08:00:00

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: 57.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 10.00 | OSM 100 M | 0.140 |

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

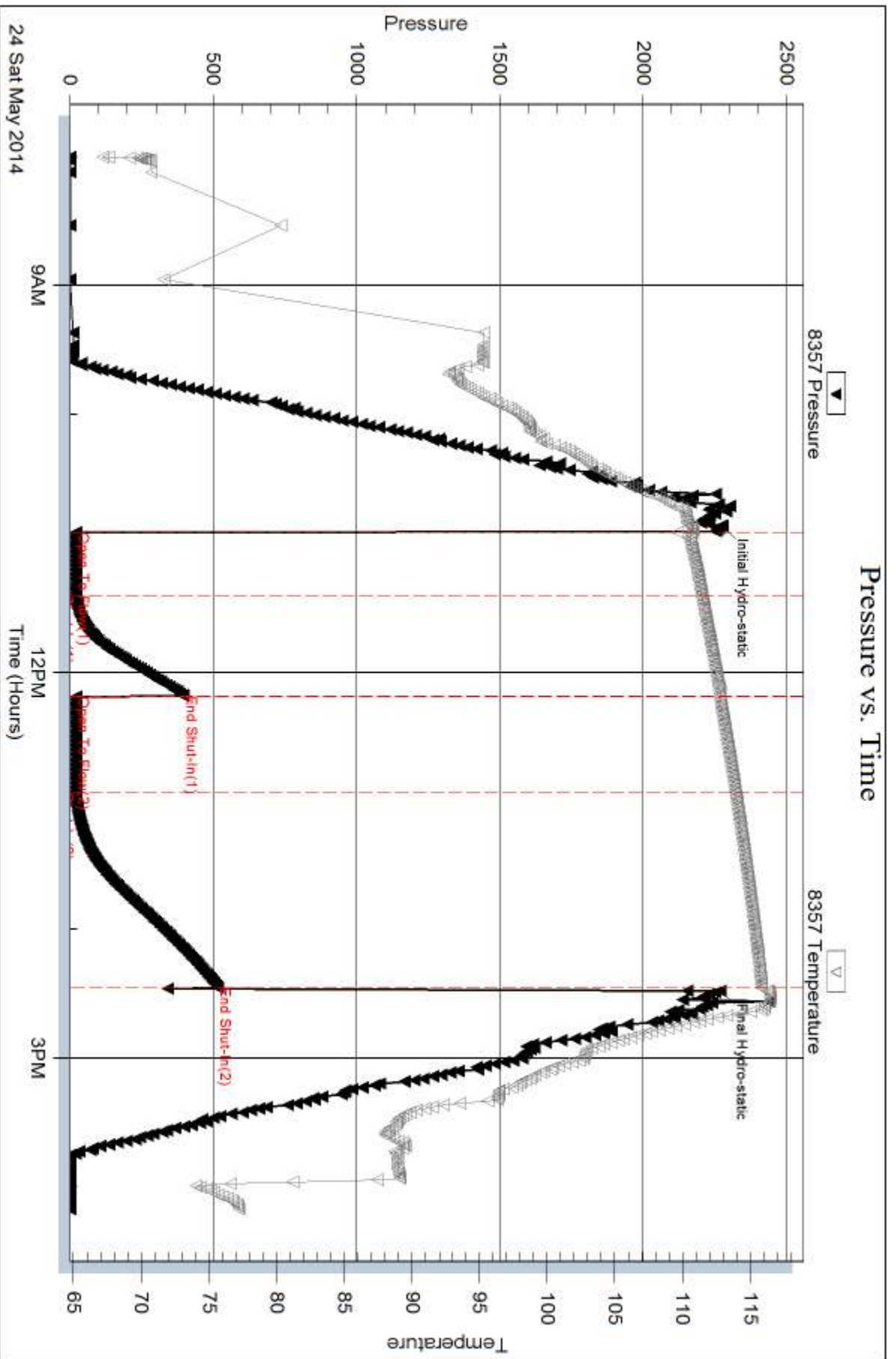
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: @ Degrees F =



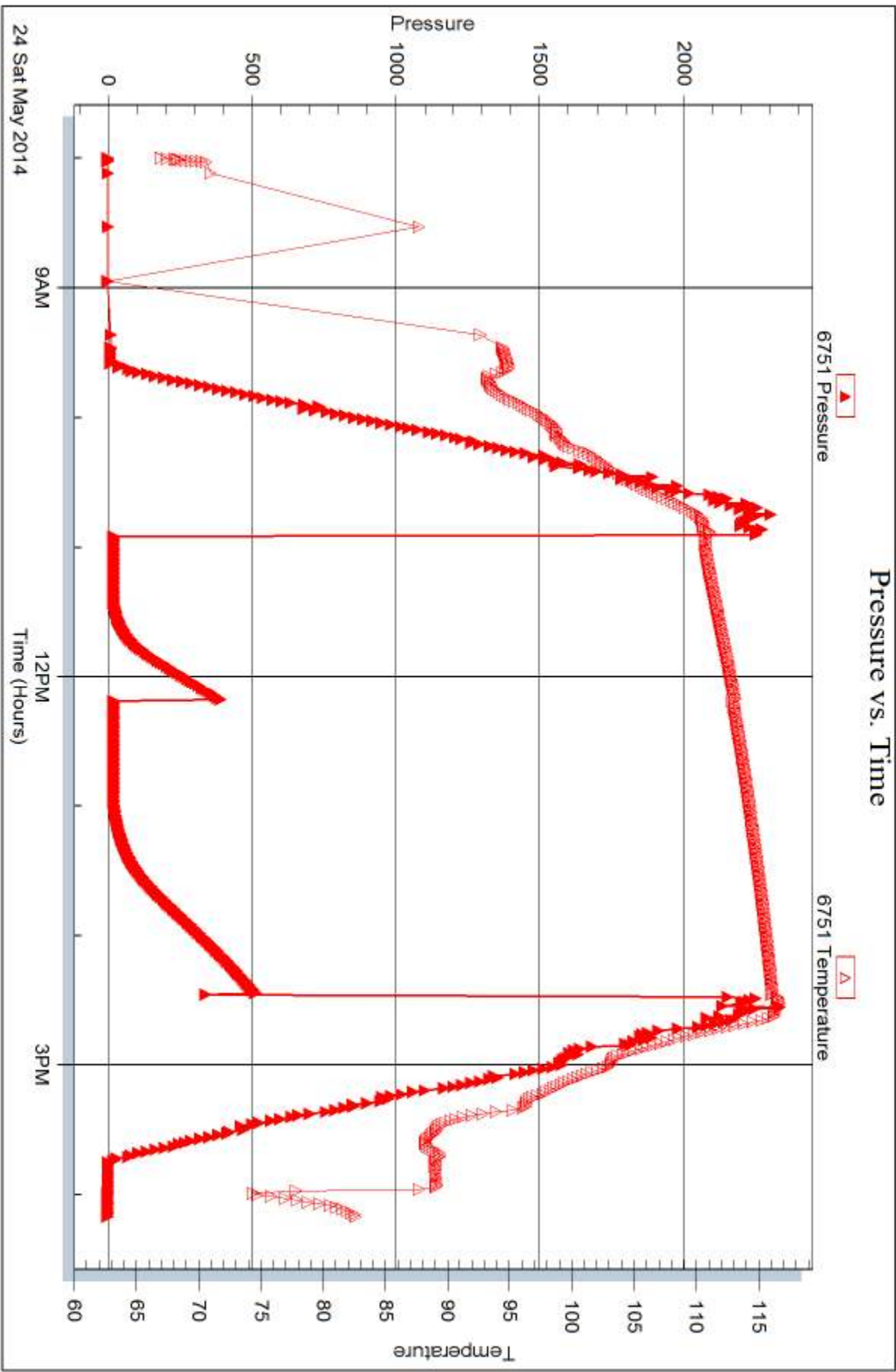
Serial #: 6751

Outside

Landmark Resources Inc.

Rose #1-31

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 57693

Printed: 2014.05.28 @ 08:41:06



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd. Suite 600
Houston, TX 77057

ATTN: Terry McLeod

Rose #1-31

S31-16s-33w Scott,KS

Start Date: 2014.05.25 @ 08:00:02

End Date: 2014.05.25 @ 14:54:50

Job Ticket #: 57694 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.28 @ 08:40:08



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources Inc.

S31-16s-33w Scott,KS

1616 S. Voss Rd. Suite 600
Houston, TX 77057

Rose #1-31

Job Ticket: 57694

DST#: 4

ATTN: Terry McLeod

Test Start: 2014.05.25 @ 08:00:02

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:15:10

Time Test Ended: 14:54:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4642.00 ft (KB) To 4745.00 ft (KB) (TVD)

Reference Elevations: 3100.00 ft (KB)

Total Depth: 4745.00 ft (KB) (TVD)

3095.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8357

Inside

Press@RunDepth: 21.40 psig @ 4644.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.25 End Date: 2014.05.25

Last Calib.: 2014.05.25

Start Time: 08:00:02 End Time: 14:54:49

Time On Btm: 2014.05.25 @ 10:11:30

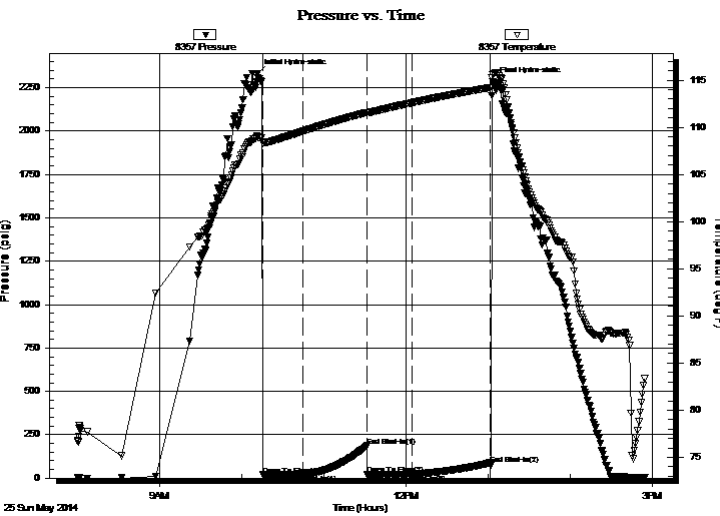
Time Off Btm: 2014.05.25 @ 13:03:20

TEST COMMENT: 30- 1/2" Blow died @ 28 min.

45- No return.

30- No blow .

60- No return.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2332.87 | 108.96 | Initial Hydro-static |
| 4 | 18.37 | 108.31 | Open To Flow (1) |
| 34 | 19.60 | 109.58 | Shut-In(1) |
| 80 | 185.81 | 111.57 | End Shut-In(1) |
| 81 | 19.85 | 111.53 | Open To Flow (2) |
| 113 | 21.40 | 112.60 | Shut-In(2) |
| 171 | 82.20 | 114.21 | End Shut-In(2) |
| 172 | 2284.51 | 115.62 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00 | OSM 100m | 0.07 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

S31-16s-33w Scott,KS

1616 S. Voss Rd. Suite 600
Houston, TX 77057

Rose #1-31

Job Ticket: 57694

DST#: 4

ATTN: Terry McLeod

Test Start: 2014.05.25 @ 08:00:02

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4635.00 ft | Diameter: 3.80 inches | Volume: 65.02 bbl | Tool Weight: 2300.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 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: 80000.00 lb |
| | | | <u>Total Volume: 65.02 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 20.50 ft | | | String Weight: Initial 69000.00 lb |
| Depth to Top Packer: | 4642.00 ft | | | Final 69000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 103.00 ft | | | |
| Tool Length: | 130.50 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|---------------|------------|----------|------------|--------------------------------|
| Change Over Sub | 1.00 | | | 4615.50 | |
| Shut In Tool | 5.00 | | | 4620.50 | |
| Hydraulic tool | 5.00 | | | 4625.50 | |
| Jars | 5.00 | | | 4630.50 | |
| Safety Joint | 2.50 | | | 4633.00 | |
| Packer | 5.00 | | | 4638.00 | 27.50 Bottom Of Top Packer |
| Packer | 4.00 | | | 4642.00 | |
| Stubb | 1.00 | | | 4643.00 | |
| Perforations | 1.00 | | | 4644.00 | |
| Recorder | 0.00 | 8357 | Inside | 4644.00 | |
| Recorder | 0.00 | 6751 | Outside | 4644.00 | |
| Perforations | 2.00 | | | 4646.00 | |
| Change Over Sub | 1.00 | | | 4647.00 | |
| Drill Pipe | 94.00 | | | 4741.00 | |
| Change Over Sub | 1.00 | | | 4742.00 | |
| Bullnose | 3.00 | | | 4745.00 | 103.00 Bottom Packers & Anchor |
| Total Tool Length: | 130.50 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

S31-16s-33w Scott,KS

1616 S. Voss Rd. Suite 600
Houston, TX 77057

Rose #1-31

Job Ticket: 57694

DST#: 4

ATTN: Terry McLeod

Test Start: 2014.05.25 @ 08:00:02

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 5.00 | OSM 100m | 0.070 |

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

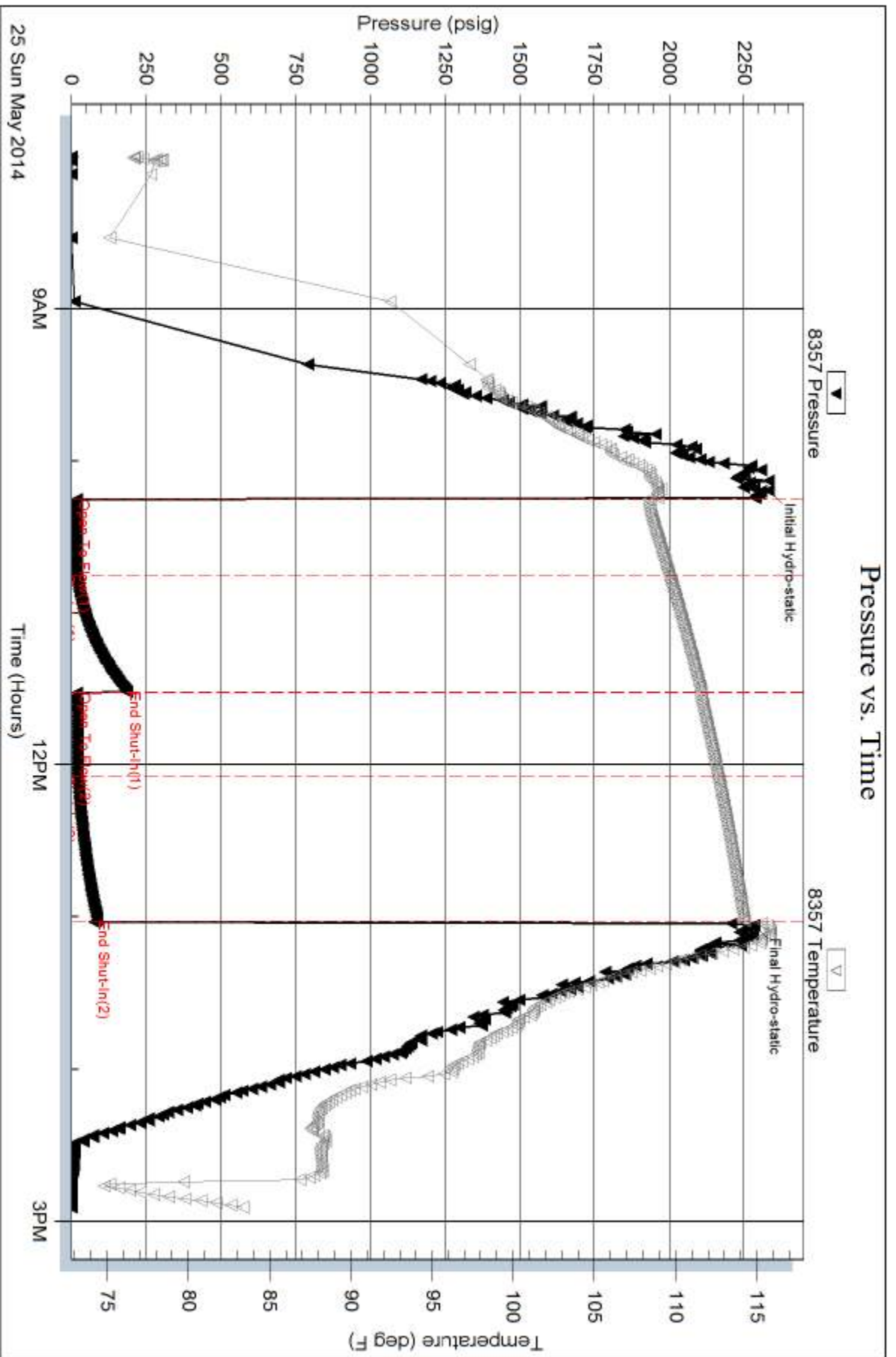
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: @ Degrees F =

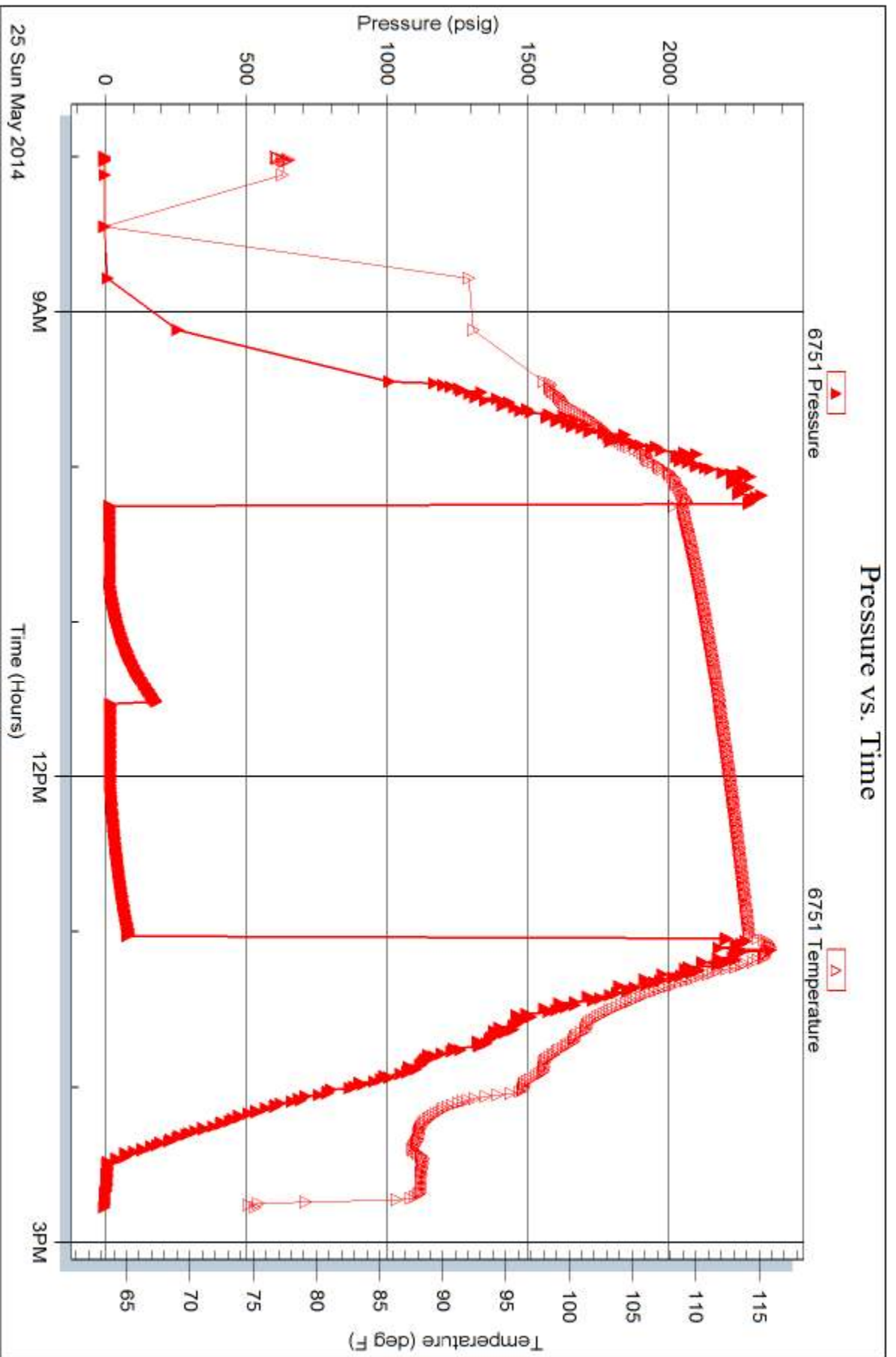


Serial #: 6751

Outside Landmark Resources Inc.

Rose #1-31

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 57694

Printed: 2014.05.28 @ 08:40:10



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57691

Well Name & No. Rose #1-31 Test No. 1 Date 5-23-14
 Company Landmark Resources, Inc. Elevation 3100 KB 3095 GL
 Address 1616 E Voss Rd. Ste 600 Houston, TX 77057
 Co. Rep / Geo. Terry McLeard Rig LD#1
 Location: Sec. 31 Twp. 16s Rge. 33W Co. Scott State KS

Interval Tested 4433-4545 Zone Tested Marmaton, Altamont
 Anchor Length 112 Drill Pipe Run 4438 Mud Wt. 9.1
 Top Packer Depth 4429 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 4433 Wt. Pipe Run 0 WL 8.0
 Total Depth 4545 Chlorides 4000 ppm System LCM 1st
 Blow Description Packer sent failed twice, pulled tool.

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|----------|------|------|------------|------|
| <u>220</u> | <u>M</u> | | | <u>100</u> | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Rec Total 220 BHT N/A Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2174 Test 1050 T-On Location 6:10
 (B) First Initial Flow 1899 Jars _____ T-Started 6:15
 (C) First Final Flow N/A Safety Joint 75 T-Open 9:02
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 9:10
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 11:42
 (F) Second Final Flow _____ Mileage 35RT 54.25 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 2162 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1179.25
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1179.25

Approved By Terry McLeard Our Representative Chuck Smith

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. 57692

Well Name & No. Rose #1-31 Test No. 2 Date 5-23-14
 Company Landmark Resources, Inc. Elevation 3100 KB 3095 GL
 Address _____
 Co. Rep / Geo. Terry McLeod Rig LD#1
 Location: Sec. 31 Twp. 16s Rge. 33W Co. Scott State KS

Interval Tested 4469-4545 Zone Tested Altamont
 Anchor Length 76 Drill Pipe Run 4476 Mud Wt. 9.2
 Top Packer Depth 4465 Drill Collars Run 0 Vis 55
 Bottom Packer Depth 4469 Wt. Pipe Run 0 WL 7.2
 Total Depth 4545 Chlorides 5000 ppm System LCM 1st
 Blow Description 1 1/2" Blow
No return.
4" Blow.
No return.

| Rec | Feet of | %gas | %oil | %water | %mud |
|---------------|------------------------|----------------|----------------|--------|----------------|
| Rec <u>35</u> | Feet of <u>60CM</u> | <u>15</u> %gas | <u>25</u> %oil | %water | <u>60</u> %mud |
| Rec _____ | Feet of <u>30' GIP</u> | %gas | %oil | %water | %mud |
| Rec _____ | Feet of _____ | %gas | %oil | %water | %mud |
| Rec _____ | Feet of _____ | %gas | %oil | %water | %mud |

Rec Total 35 BHT 119 Gravity 33 API RW - @ _____ ° F Chlorides - ppm

| | | |
|-------------------------------------|---|--|
| (A) Initial Hydrostatic <u>2218</u> | <input checked="" type="checkbox"/> Test <u>1250</u> | T-On Location <u>11:45</u> |
| (B) First Initial Flow <u>16</u> | <input type="checkbox"/> Jars _____ | T-Started <u>12:02</u> |
| (C) First Final Flow <u>22</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>13:43</u> |
| (D) Initial Shut-In <u>1083</u> | <input checked="" type="checkbox"/> Circ Sub <u>NIC</u> | T-Pulled <u>17:14</u> |
| (E) Second Initial Flow <u>20</u> | <input type="checkbox"/> Hourly Standby _____ | T-Out <u>18:53</u> |
| (F) Second Final Flow <u>28</u> | <input checked="" type="checkbox"/> Mileage <u>35RT</u> 54.25 | Comments _____ |
| (G) Final Shut-In <u>1062</u> | <input type="checkbox"/> Sampler _____ | _____ |
| (H) Final Hydrostatic <u>2231</u> | <input type="checkbox"/> Straddle _____ | <input type="checkbox"/> Ruined Shale Packer _____ |
| Initial Open <u>30</u> | <input checked="" type="checkbox"/> Shale Packer <u>250</u> | <input type="checkbox"/> Ruined Packer _____ |
| Initial Shut-In <u>45</u> | <input type="checkbox"/> Extra Packer _____ | <input type="checkbox"/> Extra Copies _____ |
| Final Flow <u>45</u> | <input type="checkbox"/> Extra Recorder _____ | Sub Total <u>0</u> |
| Final Shut-In <u>90</u> | <input type="checkbox"/> Day Standby _____ | Total <u>1629.25</u> |
| | <input type="checkbox"/> Accessibility _____ | MP/DST Disc't _____ |
| | Sub Total <u>1629.25</u> | |

Approved By Terry McLeod

Our Representative Chuck Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57693

Well Name & No. Rose #1-31 Test No. 3 Date 5-24-14
 Company Landmark Resources, Inc. Elevation 3100 KB 3095 GL
 Address 1616 E. Voss Rd. Ste 600 Houston, TX 77057
 Co. Rep / Geo. Terry McLead Rig LD#1
 Location: Sec. 31 Twp. 16s Rge. 33w Co. Scott State KS

Interval Tested 4568-4626 Zone Tested Myric St. - Ft. Scott
 Anchor Length 58 Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 4564 Drill Collars Run 0 Vis 57
 Bottom Packer Depth 4568 Wt. Pipe Run 0 WL 8.0
 Total Depth 4626 Chlorides 5500 ppm System LCM 2"
 Blow Description 1 1/4" Blow.
No return
No blow.
No return.

| Rec | Feet of | %gas | %oil | %water | %mud |
|---------------|------------------|------|------|--------|------------|
| Rec <u>10</u> | Feet of <u>n</u> | | | | <u>100</u> |
| Rec _____ | Feet of _____ | | | | |
| Rec _____ | Feet of _____ | | | | |
| Rec _____ | Feet of _____ | | | | |

Rec Total 10 BHT 116 Gravity — API RW _____ @ _____ °F Chlorides — ppm

| | | |
|-------------------------------------|---|--|
| (A) Initial Hydrostatic <u>2274</u> | <input checked="" type="checkbox"/> Test <u>1250</u> | T-On Location <u>8:00</u> |
| (B) First Initial Flow <u>20</u> | <input type="checkbox"/> Jars _____ | T-Started <u>8:00</u> |
| (C) First Final Flow <u>22</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>10:55</u> |
| (D) Initial Shut-In <u>396</u> | <input checked="" type="checkbox"/> Circ Sub <u>NIC</u> | T-Pulled <u>14:27</u> |
| (E) Second Initial Flow <u>22</u> | <input type="checkbox"/> Hourly Standby _____ | T-Out <u>16:11</u> |
| (F) Second Final Flow <u>22</u> | <input checked="" type="checkbox"/> Mileage <u>35RT</u> 54.25 | Comments _____ |
| (G) Final Shut-In <u>515</u> | <input type="checkbox"/> Sampler _____ | |
| (H) Final Hydrostatic <u>2269</u> | <input type="checkbox"/> Straddle _____ | <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>45</u> | <input type="checkbox"/> Extra Recorder _____ | Sub Total <u>0</u> |
| Final Flow <u>45</u> | <input type="checkbox"/> Day Standby _____ | Total <u>1629.25</u> |
| Final Shut-In <u>90</u> | <input type="checkbox"/> Accessibility _____ | MP/DST Disc't _____ |
| | Sub Total <u>1629.25</u> | |

Approved By Terry McLead Our Representative Chuck Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57694

Well Name & No. Rose #1:31 Test No. 4 Date 5-25-14
 Company Landmark Resources, Inc. Elevation 3100 KB 3095 GL
 Address 1616 S. Voss Rd. Ste. 600 Houston, TX 77057
 Co. Rep / Geo. Terry McLeod Rig LD#1
 Location: Sec. 31 Twp. 16s Rge. 33w Co. Scott State KS

Interval Tested 4642-4745 Zone Tested Johnson
 Anchor Length 103 Drill Pipe Run 4635 Mud Wt. 9.2
 Top Packer Depth 4638 Drill Collars Run 0 Vis 54
 Bottom Packer Depth 4642 Wt. Pipe Run 0 WL 7.2
 Total Depth 4745 Chlorides 4500 ppm System LCM 2nd
 Blow Description 1/2" Blow died @ 28 min.
No return.
No blow.
No return.

| Rec | Feet of | %gas | %oil | %water | %mud |
|--------------|--------------------|------|------|-------------------|------|
| Rec <u>5</u> | Feet of <u>OSM</u> | %gas | %oil | %water <u>100</u> | %mud |
| 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 114 Gravity — API RW @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2333 Test 1250 T-On Location 7:57
 (B) First Initial Flow 18 Jars T-Started 8:00
 (C) First Final Flow 20 Safety Joint 75 T-Open 10:15
 (D) Initial Shut-In 186 Circ Sub NIC T-Pulled 13:02
 (E) Second Initial Flow 20 Hourly Standby T-Out 14:55
 (F) Second Final Flow 21 Mileage 35 RT x 2 108.50
 (G) Final Shut-In 82 Sampler
 (H) Final Hydrostatic 2285 Straddle
 Ruined Shale Packer 350

Initial Open 30 Shale Packer 250 Ruined Packer
 Initial Shut-In 45 Extra Packer Extra Copies
 Final Flow 30 Extra Recorder Sub Total 0
 Final Shut-In 60 Day Standby Total 2033.50
 Accessibility MP/DST Disc't
 Sub Total 1683.50

Approved By Terry L. McLeod Our Representative Chuck Smith

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.



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 143511
Invoice Date: May 26, 2014
Page: 1

| |
|---|
| Bill To: |
| Landmark Resources, Inc. 1616 S. Voss Suite 600 Houston, TX 77057-1264 |

21890

APPROVED JUN 10 2014

| Customer ID | Field Ticket # | Payment Terms | |
|--------------|----------------|---------------|----------|
| Land | 63304 | Net 30 Days | |
| Job Location | Camp Location | Service Date | Due Date |
| KS1-03 | Oakley | May 26, 2014 | 6/25/14 |

| Quantity | Item | Description | Unit Price | Amount |
|----------|--------------------|-----------------------|------------|----------|
| 1.00 | WELL NAME | Rose #1-31 | | |
| 162.00 | CEMENT MATERIALS | Class A Common | 17.90 | 2,899.80 |
| 108.00 | CEMENT MATERIALS | Pozmix | 9.35 | 1,009.80 |
| 9.00 | CEMENT MATERIALS | Gel | 23.40 | 210.60 |
| 67.50 | CEMENT MATERIALS | Flo Seal | 2.97 | 200.48 |
| 289.98 | CEMENT SERVICE | Cubic Feet Charge | 2.48 | 719.15 |
| 544.95 | CEMENT SERVICE | Ton Mileage Charge | 2.60 | 1,416.87 |
| 1.00 | CEMENT SERVICE | Plug to Abandon | 2,765.75 | 2,765.75 |
| 45.00 | CEMENT SERVICE | Pump Truck Mileage | 7.70 | 346.50 |
| 45.00 | CEMENT SERVICE | Light Vehicle Mileage | 4.40 | 198.00 |
| 1.00 | CEMENT SUPERVISOR | Talon Jones | | |
| 1.00 | CEMENT SUPERVISOR | LaRene Wentz | | |
| 1.00 | EQUIPMENT OPERATOR | Wayne McGhghy | | |

PD.

JUN 11 2014

46145
41,884.99

0 * *

| | | |
|------------------------|-------------|------------------|
| Subtotal | 10,562.96 + | 9,766.95 |
| Sales Tax | 2,734.74 - | 796.01 |
| Total Invoice Amount | 7,828.22 + | 10,562.96 |
| Payment/Credit Applied | | |
| TOTAL | | 10,562.96 |

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 2,734.74

ONLY IF PAID ON OR BEFORE
Jun 25, 2014

ALLIED OIL & GAS SERVICES, LLC 063304

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Calhoun

| | | | | | | | |
|--------------------------------|----------------|--------------------|-----------------|----------------------------------|------------------------|------------------------|-----------------------|
| DATE <u>5-26-14</u> | SEC. <u>31</u> | TWP. <u>16</u> | RANGE <u>33</u> | CALLED OUT | ON LOCATION <u>9pm</u> | JOB START <u>130am</u> | JOB FINISH <u>2am</u> |
| LEASE <u>Rose</u> | | WELL # <u>1-31</u> | | LOCATION <u>Pencets 3E, 2345</u> | | COUNTY <u>Stott</u> | STATE <u>KS</u> |
| OLD OR <u>NEW</u> (Circle one) | | | | <u>E into</u> | | | |

| | |
|------------------------|-------------------|
| CONTRACTOR <u>L.D</u> | |
| TYPE OF JOB <u>PTA</u> | |
| HOLE SIZE <u>7 7/8</u> | T.D. <u>4890</u> |
| CASING SIZE | DEPTH |
| TUBING SIZE | DEPTH |
| DRILL PIPE | DEPTH <u>2566</u> |
| TOOL | DEPTH |
| PRES. MAX | MINIMUM |
| MEAS. LINE | SHOE JOINT |
| CEMENT LEFT IN CSG. | |
| PERFS. | |
| DISPLACEMENT | |

| | |
|--|--|
| OWNER <u>Sumc</u> | |
| CEMENT | |
| AMOUNT ORDERED <u>270 stks 60/40 100-2</u> | |
| <u>4 1/2 Gcl 1/4 2 Flo-seal</u> | |

| EQUIPMENT | |
|----------------------|------------------------------|
| PUMP TRUCK | CEMENTER <u>Taylor Jones</u> |
| # <u>518</u> | HELPER <u>LaRone Monte</u> |
| BULK TRUCK | |
| # <u>891</u> | DRIVER <u>Enrique (102)</u> |
| BULK TRUCK | |
| # <u>422 back up</u> | DRIVER <u>Wayne McElshy</u> |

| | | | |
|----------|--------------------------|----------------|----------------|
| COMMON | <u>162 stks</u> | @ <u>17.90</u> | <u>2899.80</u> |
| POZMIX | <u>108 stks</u> | @ <u>9.35</u> | <u>1009.80</u> |
| GEL | <u>9 stks</u> | @ <u>23.40</u> | <u>210.60</u> |
| CHLORIDE | | @ | |
| ASC | | @ | |
| | <u>67.5 lbs Flo-seal</u> | @ <u>2.97</u> | <u>200.48</u> |
| | <u>Material total</u> | @ | <u>4320.68</u> |
| | <u>(1,809.79/200)</u> | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| HANDLING | <u>269.98 cuft</u> | @ <u>2.48</u> | <u>719.15</u> |
| MILEAGE | <u>12.11 tank 45 mi</u> | @ <u>2.60</u> | <u>1416.87</u> |
| TOTAL | | | |

REMARKS:
mix 50stks @ 24608
mix 80stks @ 16008
mix 50stks @ 8008
mix 40stks @ 3008
set plug @ 60 ft
mix 30stks R, H
wash up set

| SERVICE | |
|---|-----------------------------|
| DEPTH OF JOB | <u>4890 ft</u> |
| PUMP TRUCK CHARGE | <u>2765.25</u> |
| EXTRA FOOTAGE | @ |
| MILEAGE <u>H-V 45 mi</u> | @ <u>7.70</u> <u>346.50</u> |
| MANIFOLD | @ |
| <u>L-V 45 mi</u> | @ <u>4.40</u> <u>198.00</u> |
| | @ |
| TOTAL <u>(1,524.95/200)</u> <u>5,446.27</u> | |

CHARGE TO: Landmark Resources
 STREET _____
 CITY _____ STATE _____ ZIP _____

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

| PLUG & FLOAT EQUIPMENT | |
|------------------------------|-----------------|
| <u>8 1/2 wooden plug N/A</u> | @ <u>110.00</u> |
| | @ |
| | @ |
| | @ |
| | @ |
| TOTAL <u>0</u> | |

PRINTED NAME _____
 SIGNATURE Neil Wilson

SALES TAX (If Any) _____
 TOTAL CHARGES 9,766.95
 DISCOUNT 2,734.74/200 IF PAID IN 30 DAYS
7,032.21 Net



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 143276
Invoice Date: May 16, 2014
Page: 1

Voice: (817) 546-7282
Fax: (817) 246-3361

| |
|---|
| Bill To: |
| Landmark Resources, Inc. 1616 S. Voss Suite 600 Houston, TX 77057-1264 |

APPROVED MAY 29 2014

71730

APPROVED MAY 29 2014

| Customer ID | Field Ticket # | Payment Terms | |
|--------------|----------------|---------------|----------|
| Land | 63434 | Net 30 Days | |
| Job Location | Camp Location | Service Date | Due Date |
| KS1-01 | Oakley | May 16, 2014 | 6/15/14 |

| Quantity | Item | Description | Unit Price | Amount |
|----------|--------------------|-----------------------|------------|----------|
| 1.00 | WELL NAME | Rose #1-31 | | |
| 200.00 | CEMENT MATERIALS | Class A Common | 17.90 | 3,580.00 |
| 3.00 | CEMENT MATERIALS | Gel | 23.40 | 70.20 |
| 7.00 | CEMENT MATERIALS | Chloride | 64.00 | 448.00 |
| 216.27 | CEMENT SERVICE | Cubic Feet Charge | 2.48 | 536.35 |
| 423.00 | CEMENT SERVICE | Ton Mileage Charge | 2.60 | 1,099.80 |
| 1.00 | CEMENT SERVICE | Surface | 1,512.25 | 1,512.25 |
| 45.00 | CEMENT SERVICE | Pump Truck Mileage | 7.70 | 346.50 |
| 45.00 | CEMENT SERVICE | Light Vehicle Mileage | 4.40 | 198.00 |
| 1.00 | CEMENT SUPERVISOR | Kelly Gabel | | |
| 1.00 | CEMENT SUPERVISOR | LaRene Wentz | | |
| 1.00 | OPERATOR ASSISTANT | Trevor Reed | | |

PD.
JUN 02 2014
#
46059
34,870.74

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 2,181.50

ONLY IF PAID ON OR BEFORE
Jun 10, 2014

| | |
|------------------------|---------------------------------------|
| Subtotal | 7,791.10 |
| Sales Tax | 0 * 334.00 |
| Total Invoice Amount | 8,125.10 |
| Payment/Credit Applied | 8,125.10 + |
| TOTAL | 2,181.50 - 8,125.10 = 8,125.10 |

000

5,943.60 * +

ALLIED OIL & GAS SERVICES, LLC 063434

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Oakley KS

| | | | | | | | |
|--------------------------------|-------------------|-------------------------------------|-----------------|-----------------------|----------------------------|---------------------------|----------------------------|
| DATE <u>5-16-14</u> | SEC. <u>3i</u> | TWP. <u>1b</u> | RANGE <u>33</u> | CALLED OUT | ON LOCATION <u>9:00 PM</u> | JOB START <u>10:30 PM</u> | JOB FINISH <u>11:00 PM</u> |
| LEASE <u>Rose</u> | WELL# <u>1-31</u> | LOCATION <u>Pence E totalcon Rd</u> | | | COUNTY <u>Scott</u> | STATE <u>KS</u> | |
| OLD OR <u>NEW</u> (Circle one) | | | | <u>2 1/2 S E into</u> | | | |

CONTRACTOR LD
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 264
 CASING SIZE 8 5/8 DEPTH 261
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 15 1/2

OWNER Jame
 CEMENT AMOUNT ORDERED 200 Com 390cc
200 gel

EQUIPMENT
 PUMP TRUCK CEMENTER Kelly Gabel
 # 431 HELPER Latene L. Lentz
 BULK TRUCK # 373 & 308 DRIVER Juan M, Trevor Reed
 BULK TRUCK # _____ DRIVER (TWS)
 # _____ DRIVER _____

COMMON 3000 @ 17.90 = 3580.00
 POZMIX @ _____
 GEL 35KS @ 23.70 = 70.20
 CHLORIDE 25KS @ 64.00 = 448.00
 ASC @ _____
 _____ @ _____
Material Total @ _____ = 4098.20
(1148.30 / 28%)
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING 216.2700H @ 2.45 = 536.35
 MILEAGE 9.4400x 45 x 2.00 = 1099.80
 TOTAL _____

REMARKS:

Rigged up
mixed cement
displaced with water
shut in
Cement did circulate
Thank You
Kelly & Crew

CHARGE TO: Landmark
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____ 264'
 PUMP TRUCK CHARGE _____ 1512.25
 EXTRA FOOTAGE @ _____
 MILEAGE M: HV 45 @ 7.20 = 346.50
 MANIFOLD @ _____
M: LV 45 @ 4.40 = 198.00
 _____ @ _____
(985.39 / 28%) TOTAL 2,593.10

PLUG & FLOAT EQUIPMENT

 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
(0) TOTAL _____

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

SALES TAX (If Any) _____
 TOTAL CHARGES 3,691.30
 DISCOUNT 1,873.56 (28%) IF PAID IN 30 DAYS
4,817.73 Net

PRINTED NAME _____
 SIGNATURE Michael Brown