



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

16-10s-26w-Sheridan

1515 WYNKoop STE 700
Denver Co. 80202

Robert 1-16

Job Ticket: 62893

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2015.06.13 @ 07:47:00

GENERAL INFORMATION:

Formation: **Lansing F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:21:00

Time Test Ended: 15:03:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 59-Great Bend-250

Interval: **3868.00 ft (KB) To 3892.00 ft (KB) (TVD)**

Reference Elevations: 2546.00 ft (KB)

Total Depth: 3892.00 ft (KB) (TVD)

2538.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8525 Inside

Press @ Run Depth: 106.45 psig @ 3887.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2015.06.13

End Date: 2015.06.13

Last Calib.: 2015.06.14

Start Time: 07:48:00

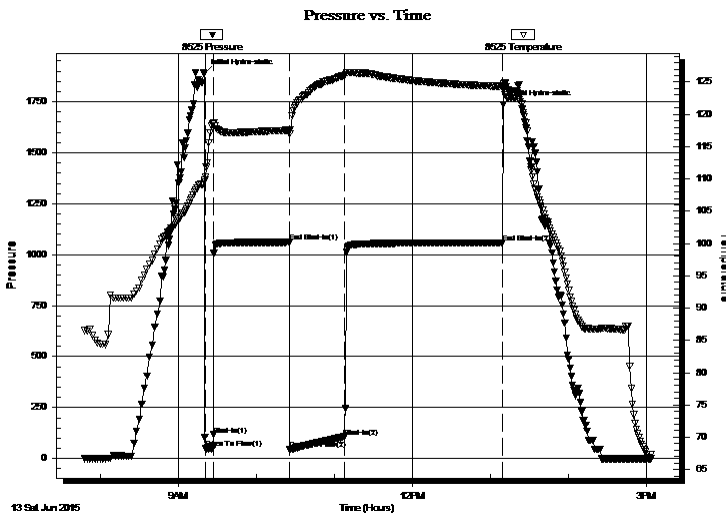
End Time: 15:03:30

Time On Btm: 2015.06.13 @ 09:20:00

Time Off Btm: 2015.06.13 @ 13:10:00

TEST COMMENT: 1st Open 5 min. Good blow built to 3.5 inches.
1st Shut in 60 min. No blow back.
2nd Open 45 min Good blow built to BOB in 38 min.
2nd Shut in 120 min No blow back.

PRESSURE SUMMARY



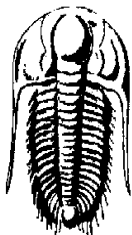
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1886.85 | 109.55 | Initial Hydro-static |
| 1 | 49.47 | 110.25 | Open To Flow (1) |
| 7 | 116.89 | 118.58 | Shut-In(1) |
| 66 | 1060.87 | 117.56 | End Shut-In(1) |
| 66 | 45.60 | 117.01 | Open To Flow (2) |
| 108 | 106.45 | 125.98 | Shut-In(2) |
| 230 | 1058.93 | 124.32 | End Shut-In(2) |
| 230 | 1735.83 | 124.68 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------|--------------|
| 10.00 | Clean oil 100% | 0.05 |
| 182.00 | Oil cut muddy w water | 2.37 |
| 0.00 | Mud 83% Water 15% Oil 2% | 0.00 |
| | | |
| | | |

Gas Rates

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



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Total Depth: 3892.00 ft (KB) (TVD)

2538.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8875 Outside

Press @ Run Depth: psig @ 3887.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2015.06.13

End Date:

2015.06.13

Last Calib.:

2015.06.14

Start Time: 07:47:05

End Time:

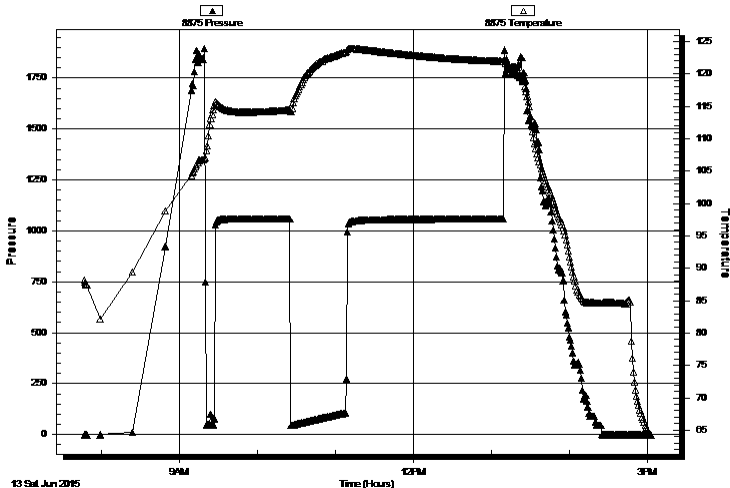
15:02:59

Time On Btm:

Time Off Btm:

TEST COMMENT: 1st Open 5 min. Good blow built to 3.5 inches.
1st Shut in 60 min. No blow back.
2nd Open 45 min Good blow built to BOB in 38 min.
2nd Shut in 120 min No blow back.

Pressure vs. Time



PRESSURE SUMMARY

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

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------|--------------|
| 10.00 | Clean oil 100% | 0.05 |
| 182.00 | Oil cut muddy water | 2.37 |
| 0.00 | Mud 83% Water 15% Oil 2% | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |
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Tester: Dustin Ellis

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Total Depth: 3892.00 ft (KB) (TVD)

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Reference Elevations: 2546.00 ft (KB)

2538.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6839

Press @ Run Depth: psig @ ft (KB)

Start Date: 2015.06.13

End Date: 2015.06.13

Start Time: 07:48:00

End Time: 15:03:30

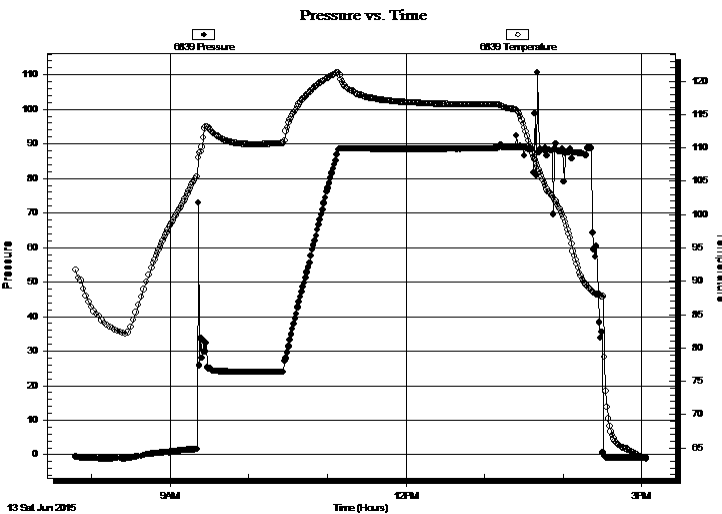
Capacity: 5000.00 psig

Last Calib.: 2015.06.14

Time On Btm:

Time Off Btm:

TEST COMMENT: 1st Open 5 min. Good blow built to 3.5 inches.
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2nd Open 45 min Good blow built to BOB in 38 min.
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PRESSURE SUMMARY

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

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------|--------------|
| 10.00 | Clean oil 100% | 0.05 |
| 182.00 | Oil cut muddy water | 2.37 |
| 0.00 | Mud 83% Water 15% Oil 2% | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

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



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FLUID SUMMARY

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ATTN: Clayton Camozzi

Test Start: 2015.06.13 @ 07:47:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 3.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|------------------------|----------------|
| 10.00 | Clean oil 100% | 0.049 |
| 182.00 | Oil cut muddy w ater | 2.368 |
| 0.00 | Mud 83% Water15%Oil 2% | 0.000 |

Total Length: 192.00 ft Total Volume: 2.417 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

