



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Ritchie Exploration Inc
 8100 E 22d St n 700
 Wichita, Ks 67278
 ATTN: John Goldsmith

32-19s-30w Lane, Ks
Anderson 32B #1
 Job Ticket: 65499 **DST#: 2**
 Test Start: 2016.08.09 @ 01:42:43

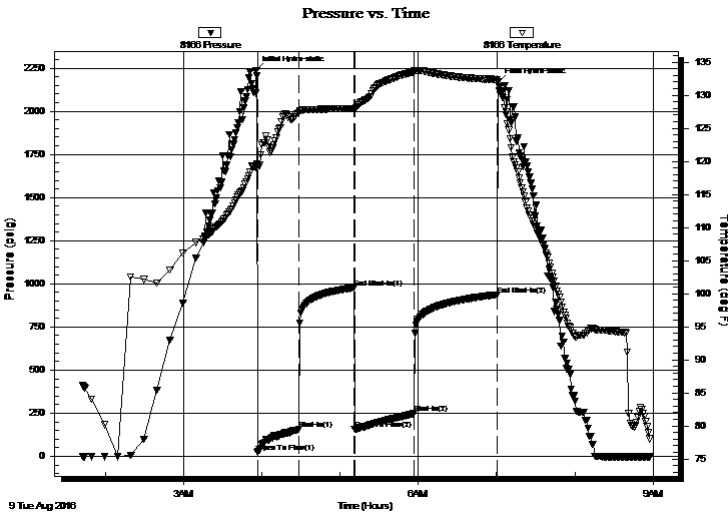
GENERAL INFORMATION:

Formation: **Altamont A**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 03:56:43 Tester: Brandon Turley
 Time Test Ended: 08:57:13 Unit No: 79
 Interval: **4385.00 ft (KB) To 4440.00 ft (KB) (TVD)** Reference Elevations: 2934.00 ft (KB)
 Total Depth: 4440.00 ft (KB) (TVD) 2929.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
 Press@RunDepth: 251.73 psig @ 4386.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.08.09 End Date: 2016.08.09 Last Calib.: 2016.08.09
 Start Time: 01:42:48 End Time: 08:57:12 Time On Btm: 2016.08.09 @ 03:55:43
 Time Off Btm: 2016.08.09 @ 07:01:13

TEST COMMENT: IF: BOB in 17 min.
 IS: No return.
 FF: BOB in 22 min.
 FS: No return.

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2236.66 | 119.28 | Initial Hydro-static |
| 1 | 24.24 | 119.09 | Open To Flow (1) |
| 33 | 155.33 | 127.32 | Shut-In(1) |
| 75 | 977.41 | 128.01 | End Shut-In(1) |
| 76 | 157.57 | 127.78 | Open To Flow (2) |
| 121 | 251.73 | 133.51 | Shut-In(2) |
| 185 | 936.72 | 132.35 | End Shut-In(2) |
| 186 | 2167.88 | 132.08 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------------|--------------|
| 189.00 | ocmw 10%o 60%w 30%m | 1.56 |
| 126.00 | gocw m 10%g 10%o 20%w 60%m | 1.77 |
| 217.00 | ocm 10%o 90%m | 3.04 |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



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ATTN: John Goldsmith

Job Ticket: 65499

DST#: 2

Test Start: 2016.08.09 @ 01:42:43

GENERAL INFORMATION:

Formation: **Altamont A**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 03:56:43

Tester: Brandon Turley

Time Test Ended: 08:57:13

Unit No: 79

Interval: 4385.00 ft (KB) To 4440.00 ft (KB) (TVD)

Reference Elevations: 2934.00 ft (KB)

Total Depth: 4440.00 ft (KB) (TVD)

2929.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8875 Inside

Press@RunDepth: psig @ 4386.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.09

End Date:

2016.08.09

Last Calib.:

2016.08.09

Start Time: 01:42:29

End Time:

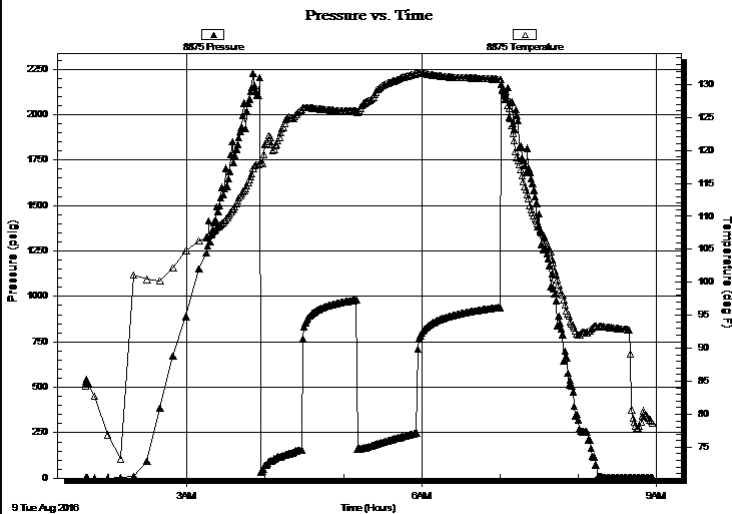
08:56:53

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 17 min.
IS: No return.
FF: BOB in 22 min.
FS: No return.

PRESSURE SUMMARY



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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------------|--------------|
| 189.00 | ocmw 10%o 60%w 30%m | 1.56 |
| 126.00 | gocw m 10%g 10%o 20%w 60%m | 1.77 |
| 217.00 | ocm 10%o 90%m | 3.04 |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

Ritchie Exploration Inc

32-19s-30w Lane, Ks

8100 E 22d St n 700
Wichita, Ks 67278

Anderson 32B #1

Job Ticket: 65499

DST#: 2

ATTN: John Goldsmith

Test Start: 2016.08.09 @ 01:42:43

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------------|---------------|
| 189.00 | ocmw 10%o 60%w 30%m | 1.558 |
| 126.00 | gocw m 10%g 10%o 20%w 60%m | 1.767 |
| 217.00 | ocm 10%o 90%m | 3.044 |

Total Length: 532.00 ft Total Volume: 6.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .25@78=25000

