

DRILL STEM TEST REPORT

Prepared For: **NAE Inc**

317 Sidney Baker S
Kerville, TX 78028

ATTN: Frank Taggart

RJ Sutton #1-13

13-17s-29w Lane,KS

Start Date: 2014.10.16 @ 05:26:01

End Date: 2014.10.16 @ 14:37:01

Job Ticket #: 59046 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2014.10.19 @ 14:45:24

NAE Inc

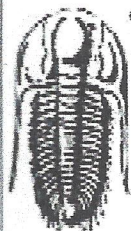
13-17s-29w Lane,KS

RJ Sutton #1-13

DST # 1

Johnson - Cong L

2014.10.16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

NAE Inc
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Kerrville, TX 78028

ATTN: Frank Taggart

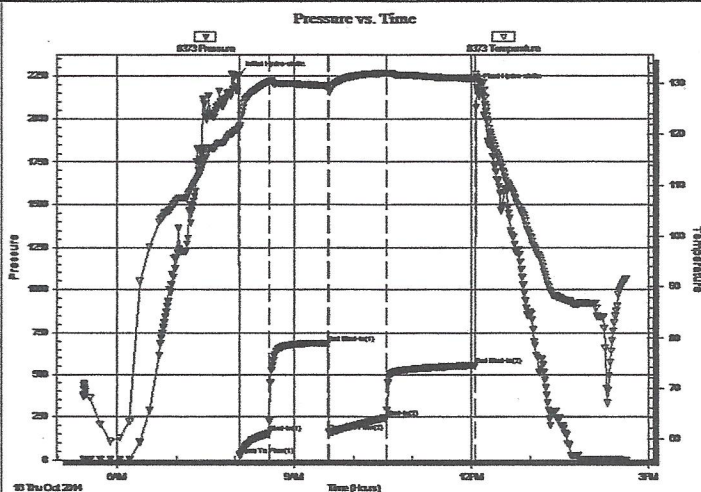
13-17s-29w Lane,KS
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Job Ticket: 59046 DST#: 1
Test Start: 2014.10.16 @ 05:26:01

GENERAL INFORMATION:

Formation: **Johnson - Cong L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:04:31
Time Test Ended: 14:37:01
Interval: **4493.00 ft (KB) To 4520.00 ft (KB) (TVD)**
Total Depth: 4520.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 60
Reference Elevations: 2754.00 ft (KB)
2743.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8373 Inside
Press@RunDepth: 245.00 psig @ 4494.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.10.16 End Date: 2014.10.16 Last Calib.: 2014.10.16
Start Time: 05:26:06 End Time: 14:37:01 Time On Btm: 2014.10.16 @ 08:04:01
Time Off Btm: 2014.10.16 @ 12:05:31

TEST COMMENT: IF: 1/4" blow BOB in 11 min.
IS: Surface blow built to 8" in 60 min.
FF: BOB in 12 min.
FS: BOB in 20 min.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2256.52 | 121.39 | Initial Hydro-static |
| 1 | 26.77 | 121.11 | Open To Flow (1) |
| 31 | 153.29 | 130.41 | Shut-In(1) |
| 90 | 689.68 | 129.46 | End Shut-In(1) |
| 91 | 161.93 | 128.66 | Open To Flow (2) |
| 150 | 245.00 | 132.05 | Shut-In(2) |
| 240 | 553.54 | 130.97 | End Shut-In(2) |
| 242 | 2182.57 | 131.35 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 186.00 | mcw 90%w 10%m | 0.91 |
| 124.00 | w cm 30%w 70%m | 1.15 |
| 124.00 | gocm 20%g 20%o 60%m | 1.74 |
| 134.00 | go 30%g 70%o | 1.88 |
| 0.00 | 672 GIP | 0.00 |

Gas Rates

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



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FLUID SUMMARY

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Kerrville, TX 78028
ATTN: Frank Taggart

13-17s-29w Lane,KS
RJ Sutton #1-13
Job Ticket: 59046 **DST#: 1**
Test Start: 2014.10.16 @ 05:26:01

Mud and Cushion Information

| | | |
|----------------------------------|----------------------------|---------------------------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: 36 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: 22000 ppm |
| Viscosity: 61.00 sec/qt | Cushion Volume: bbl | |
| Water Loss: 7.99 in ³ | Gas Cushion Type: | |
| Resistivity: 0.00 ohm.m | Gas Cushion Pressure: psig | |
| Salinity: 2000.00 ppm | | |
| Filter Cake: 1.00 inches | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|-----------|---------------------|------------|
| 186.00 | mcw 90%w 10%m | 0.915 |
| 124.00 | w cm 30%w 70%m | 1.147 |
| 124.00 | gocm 20%g 20%o 60%m | 1.739 |
| 134.00 | go 30%g 70%o | 1.880 |
| 0.00 | 672 GIP | 0.000 |

Total Length: 568.00 ft Total Volume: 5.681 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 39@90=36
 .27@81=22000



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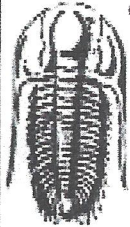
Start Date: 2014.10.17 @ 03:54:21

End Date: 2014.10.17 @ 11:19:21

Job Ticket #: 59047 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.19 @ 14:45:02



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FLUID SUMMARY

NAE Inc

13-17s-29w Lane, KS

317 Sidney Baker S
Kerrville, TX 78028

RJ Sutton #1-13

Job Ticket: 59047

DST#: 2

ATTN: Frank Taggart

Test Start: 2014.10.17 @ 03:54:21

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:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|---------------|----------------|
| 40.00 | ocm 10%o 90%m | 0.197 |
| 0.00 | 392 GIP | 0.000 |

Total Length: 40.00 ft

Total Volume: 0.197 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: