



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pioneer Resources Inc.

23-19s-31w Scott Co KS

80 Windmill Dr.
Phillipsburg KS
67661
ATTN: Jason Alm

Suppes #7

Job Ticket: 65133

DST#: 2

Test Start: 2019.04.09 @ 04:54:15

GENERAL INFORMATION:

Formation: **Miss Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:57:15

Time Test Ended: 12:30:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4566.00 ft (KB) To 4654.00 ft (KB) (TVD)

Reference Elevations: 2954.00 ft (KB)

Total Depth: 4654.00 ft (KB) (TVD)

2946.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8521 Inside

Press@RunDepth: 318.07 psig @ 4634.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.09

End Date:

2019.04.09

Last Calib.:

2019.04.09

Start Time:

04:54:15

End Time:

12:30:00

Time On Btm:

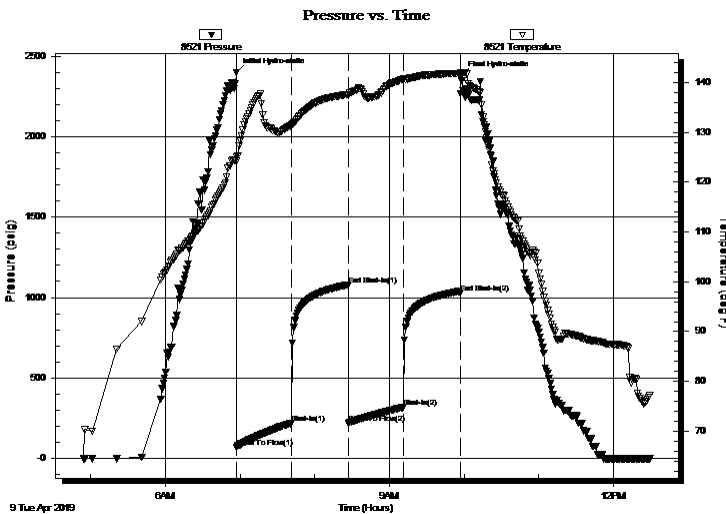
2019.04.09 @ 06:57:00

Time Off Btm:

2019.04.09 @ 09:58:00

TEST COMMENT: IF: Built to 30" blow BOB in 12 min.
IS: No return blow
FF: Built to 18" blow BOB in 17 min
FS: No return blow

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2399.25 | 125.16 | Initial Hydro-static |
| 1 | 68.35 | 124.22 | Open To Flow (1) |
| 45 | 219.27 | 131.42 | Shut-In(1) |
| 90 | 1078.55 | 137.63 | End Shut-In(1) |
| 91 | 219.64 | 137.37 | Open To Flow (2) |
| 135 | 318.07 | 140.74 | Shut-In(2) |
| 180 | 1027.31 | 141.80 | End Shut-In(2) |
| 181 | 2380.76 | 141.75 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------------|--------------|
| 32.00 | gcw m 5%g 45%w 50%m (collar) | 0.16 |
| 156.00 | vsocw m 2%o 3%w 5%g 90%m | 2.19 |
| 402.00 | gocm 5%g 10%o 85%m | 5.64 |
| 62.00 | free oil 100%o | 0.87 |
| 0.00 | GIP= 218 ft | 0.00 |

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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Suppes #7

Job Ticket: 65133

DST#: 2

ATTN: Jason Alm

Test Start: 2019.04.09 @ 04:54:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

14000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.59 in³

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 bbf |
|--------------|------------------------------|---------------|
| 32.00 | gcw m 5%g 45%w 50%m (collar) | 0.157 |
| 156.00 | vsocw m 2%o 3%w 5%g 90%m | 2.188 |
| 402.00 | gocm 5%g 10%o 85%m | 5.639 |
| 62.00 | free oil 100%o | 0.870 |
| 0.00 | GIP= 218 ft | 0.000 |

Total Length: 652.00 ft Total Volume: 8.854 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .589 @ 73.2= 14,000 ppm

API= 28 @ 70 corrected to 27@ 60

