



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

S.Gary Jr.& Assoc. inc.

DLT 1-7

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

7-16s-16w Rush

Job Ticket: 041553

DST#: 3

Test Start: 2011.02.21 @ 05:40:05

GENERAL INFORMATION:

Formation: **LKC"mid & lower G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:05:00

Time Test Ended: 14:30:30

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: 3314.00 ft (KB) To 3356.00 ft (KB) (TVD)

Total Depth: 3356.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1940.00 ft (KB)

1930.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8352 Outside

Press @RunDepth: 263.62 psig @ 3315.00 ft (KB)

Start Date: 2011.02.21

End Date: 2011.02.21

Start Time: 05:40:05

End Time: 14:30:30

Capacity: 8000.00 psig

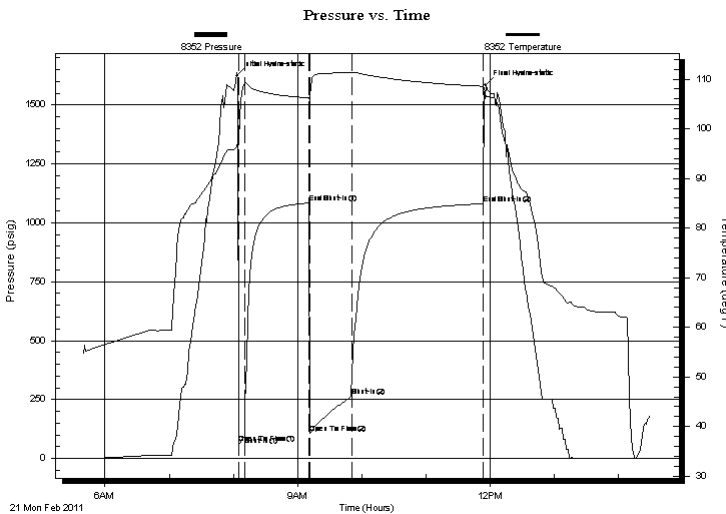
Last Calib.: 2011.02.21

Time On Btm: 2011.02.21 @ 08:03:30

Time Off Btm: 2011.02.21 @ 11:56:09

TEST COMMENT: IF:5min. BOB,3 min.
IS:60min. Weak surface blow died in 30 min.
FF:40min. BOB,4 min.
FS:120min. Weak surface blow , Throughout.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1624.56	96.55	Initial Hydro-static
2	66.16	96.86	Open To Flow (1)
8	92.79	109.19	Shut-In(1)
68	1084.20	106.20	End Shut-In(1)
69	106.82	106.79	Open To Flow (2)
107	263.62	111.33	Shut-In(2)
230	1080.80	108.57	End Shut-In(2)
233	1585.52	106.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MW m=40% w =60%	0.87
372.00	MW m=10% w =90%	5.22
62.00	OCMW o=10% m=30% w =60%	0.87
5.00	Oil,Water & Mud m=15% w =40% o=45%	0.07

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



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DST#: 3

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Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: **3314.00 ft (KB) To 3356.00 ft (KB) (TVD)**

Total Depth: 3356.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1940.00 ft (KB)

1930.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8650

Fluid

Press @ Run Depth: psig @ 3280.00 ft (KB)

Start Date: 2011.02.21

End Date: 2011.02.21

Start Time: 05:40:05

End Time: 14:28:30

Capacity: 8000.00 psig

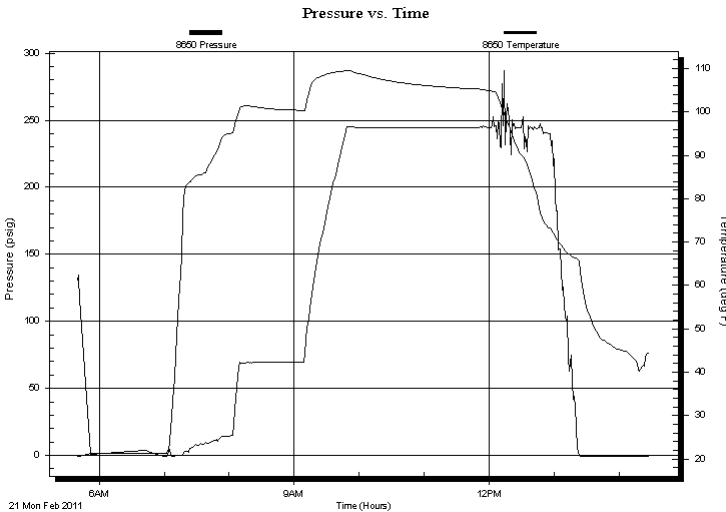
Last Calib.: 2011.02.21

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:5min. BOB,3 min.
IS:60min. Weak surface blow died in 30 min.
FF:40min. BOB,4 min.
FS:120min. Weak surface blow , Throughout.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MW m=40% w =60%	0.87
372.00	MW m=10% w =90%	5.22
62.00	OCMW o=10% m=30% w =60%	0.87
5.00	Oil, Water & Mud m=15% w =40% o=45%	0.07

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

S.Gary Jr.& Assoc. inc.

DLT 1-7

1515 Wynkoop
Suite 700
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ATTN: Neil Sharp

7-16s-16w Rush

Job Ticket: 041553

DST#: 3

Test Start: 2011.02.21 @ 05:40:05

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: 9.60 in³
Resistivity: ohm.m
Salinity: 6800.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 9500 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MW m=40% w =60%	0.870
372.00	MW m=10% w =90%	5.218
62.00	OCMW o=10% m=30% w =60%	0.870
5.00	Oil,Water & Mud m=15% w =40% o=45%	0.070

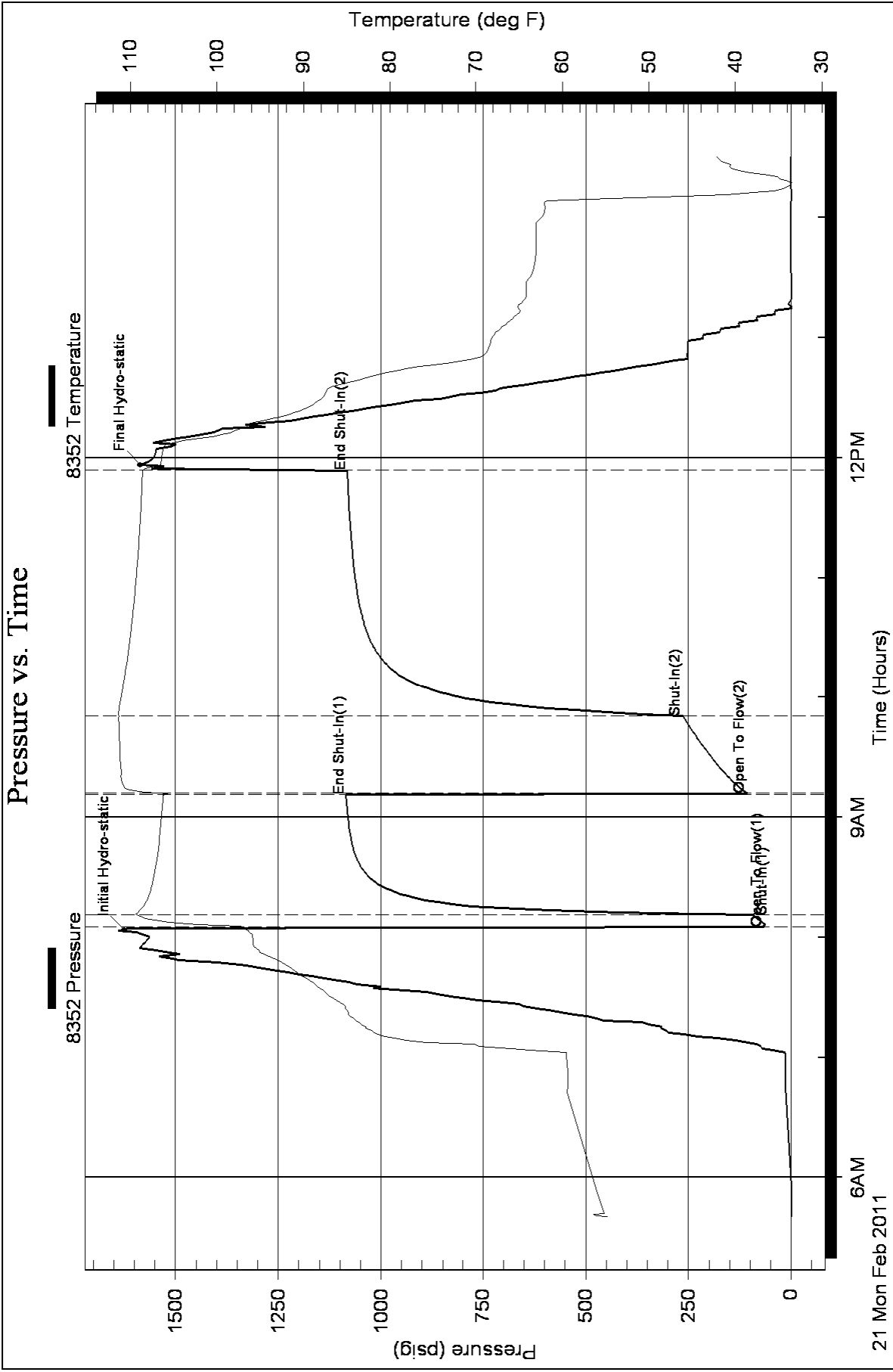
Total Length: 501.00 ft Total Volume: 7.028 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler Data= 200ml-mud 800ml-water

Pressure vs. Time



Serial #: 8650

Fluid

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DST Test Number: 3

