



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. and Assoc. inc

Leon Brack et al 1-23

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

23-16s-16w Rush

Job Ticket: 042631

DST#: 4

Test Start: 2011.05.26 @ 15:24:05

GENERAL INFORMATION:

Formation: **LKC"I,J,K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:40:20

Time Test Ended: 23:14:39

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: 3417.00 ft (KB) To 3463.00 ft (KB) (TVD)

Reference Elevations: 1975.00 ft (KB)

Total Depth: 3463.00 ft (KB) (TVD)

1965.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 43.27 psig @ 3423.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.26 End Date: 2011.05.26

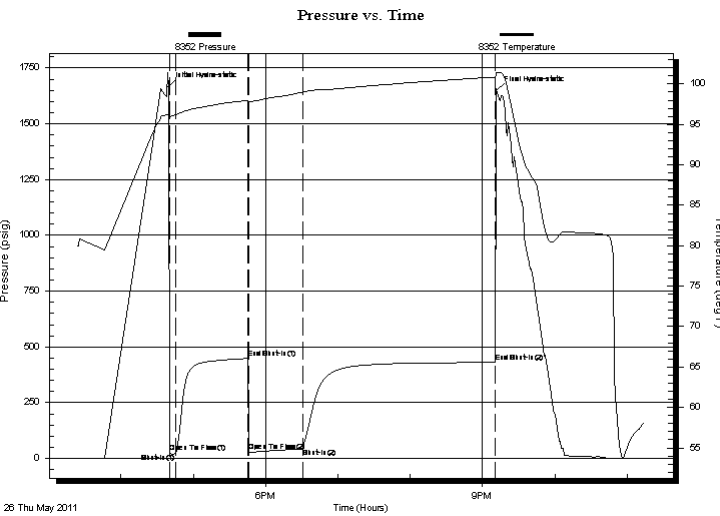
Last Calib.: 2011.05.26

Start Time: 15:24:05 End Time: 23:14:40

Time On Btm: 2011.05.26 @ 16:39:40

Time Off Btm: 2011.05.26 @ 21:11:39

TEST COMMENT: IF:(5min) BOB, 4 min.
IS:(60min) No Return
FF:(45min) BOB, 4 min
FS:(160min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1666.27	96.28	Initial Hydro-static
1	26.34	95.70	Open To Flow (1)
6	21.63	96.20	Shut-In(1)
66	447.75	97.97	End Shut-In(1)
67	31.67	97.81	Open To Flow (2)
112	43.27	98.99	Shut-In(2)
271	430.56	100.86	End Shut-In(2)
272	1649.92	101.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMWO g=35% w=10% m=20% o=35%	0.84
10.00	GMCO g=10% m=20% o=70%	0.14
0.00	GIP=760ft	0.00

Gas Rates

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



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Tester: Andy Carreira

Unit No: 39

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Reference Elevations: 1975.00 ft (KB)

Total Depth: 3463.00 ft (KB) (TVD)

1965.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8650

Fluid

Press@RunDepth: psig @ 3384.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.26

End Date: 2011.05.26

Last Calib.: 2011.05.26

Start Time: 15:24:05

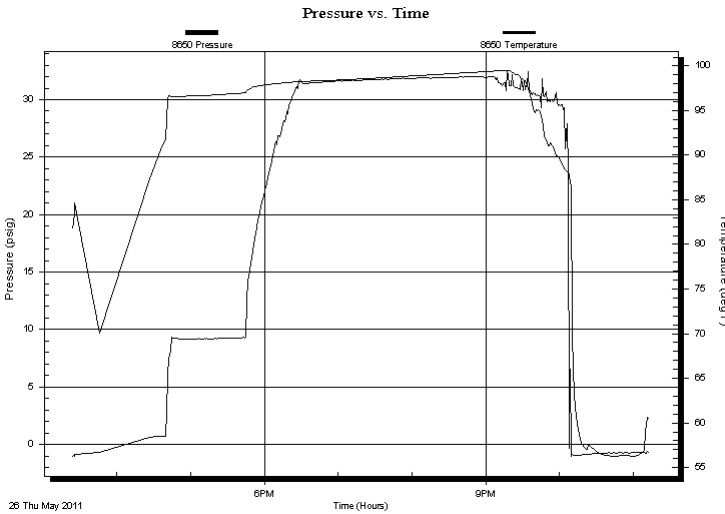
End Time: 23:12:50

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:(5min) BOB, 4 min.
IS:(60min) No Return
FF:(45min) BOB, 4 min
FS:(160min) No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMWO g=35% w=10% m=20% o=35%	0.84
10.00	GMCO g=10% m=20% o=70%	0.14
0.00	GIP=760ft	0.00

Gas Rates

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



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FLUID SUMMARY

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DST#: 4

Test Start: 2011.05.26 @ 15:24:05

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 59.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 58000.00 ppm
Filter Cake: inches

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

Oil API: 42 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GMWO g=35% w =10% m=20% o=35%	0.842
10.00	GMCO g=10% m=20% o=70%	0.140
0.00	GIP=760ft	0.000

Total Length: 70.00 ft Total Volume: 0.982 bbl

Num Fluid Samples: 0

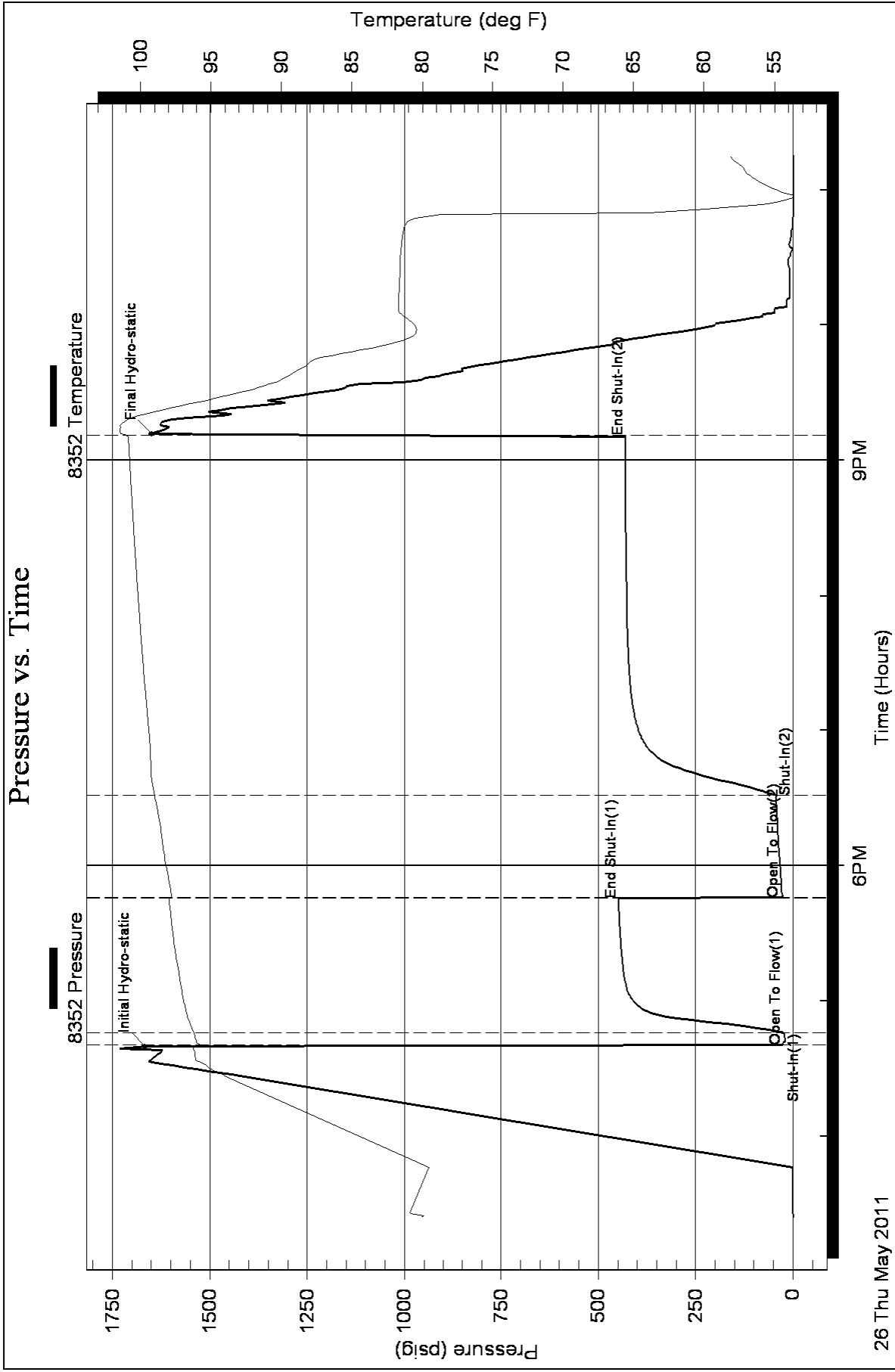
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data= Oil=1200ml Pressure=185lbs



Serial #: 8650

Fluid

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DST Test Number: 4

