



**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: 042628

DST#: 1

Test Start: 2011.05.24 @ 12:33:05

GENERAL INFORMATION:

Formation: **LKC"A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:35:50

Time Test Ended: 21:35:30

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: 3235.00 ft (KB) To 3294.00 ft (KB) (TVD)

Reference Elevations: 1975.00 ft (KB)

Total Depth: 3294.00 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: 382.82 psig @ 3239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.24

End Date:

2011.05.24

Last Calib.:

2011.05.24

Start Time: 00:33:05

End Time:

09:35:30

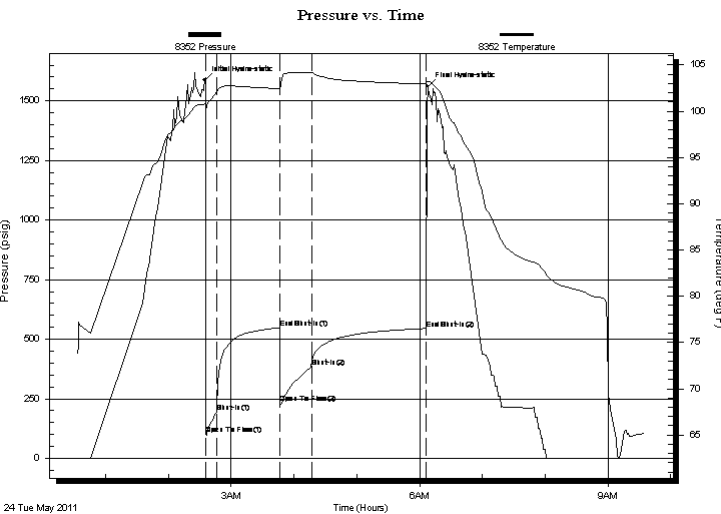
Time On Btm:

2011.05.24 @ 02:34:30

Time Off Btm:

2011.05.24 @ 06:07:50

TEST COMMENT: IF:(10min) BOB, 2 min.
IS:(60min) Return Surface Blow
FF:(30min) BOB, 2 min.
FS:(110min) Return Blow, BOB, 23 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1585.79	100.79	Initial Hydro-static
2	102.90	100.16	Open To Flow (1)
12	194.96	102.06	Shut-In(1)
72	547.32	102.44	End Shut-In(1)
72	231.89	102.37	Open To Flow (2)
102	382.82	104.15	Shut-In(2)
212	545.00	102.94	End Shut-In(2)
214	1560.13	103.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
535.00	GW g=5% w=95%	7.50
120.00	GOCMW g=40% o=20% m=10% w=30%	1.68
120.00	GOCMW g=30% o=20% m=20% w=30%	1.68
0.00	GIP=1265ft	0.00

Gas Rates

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



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FLUID SUMMARY

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Test Start: 2011.05.24 @ 12:33:05

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 10.80 in³
Resistivity: ohm.m
Salinity: 5700.00 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: 200000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
535.00	GW g=5% w=95%	7.505
120.00	GOCMW g=40% o=20% m=10% w=30%	1.683
120.00	GOCMW g=30% o=20% m=20% w=30%	1.683
0.00	GIP=1265ft	0.000

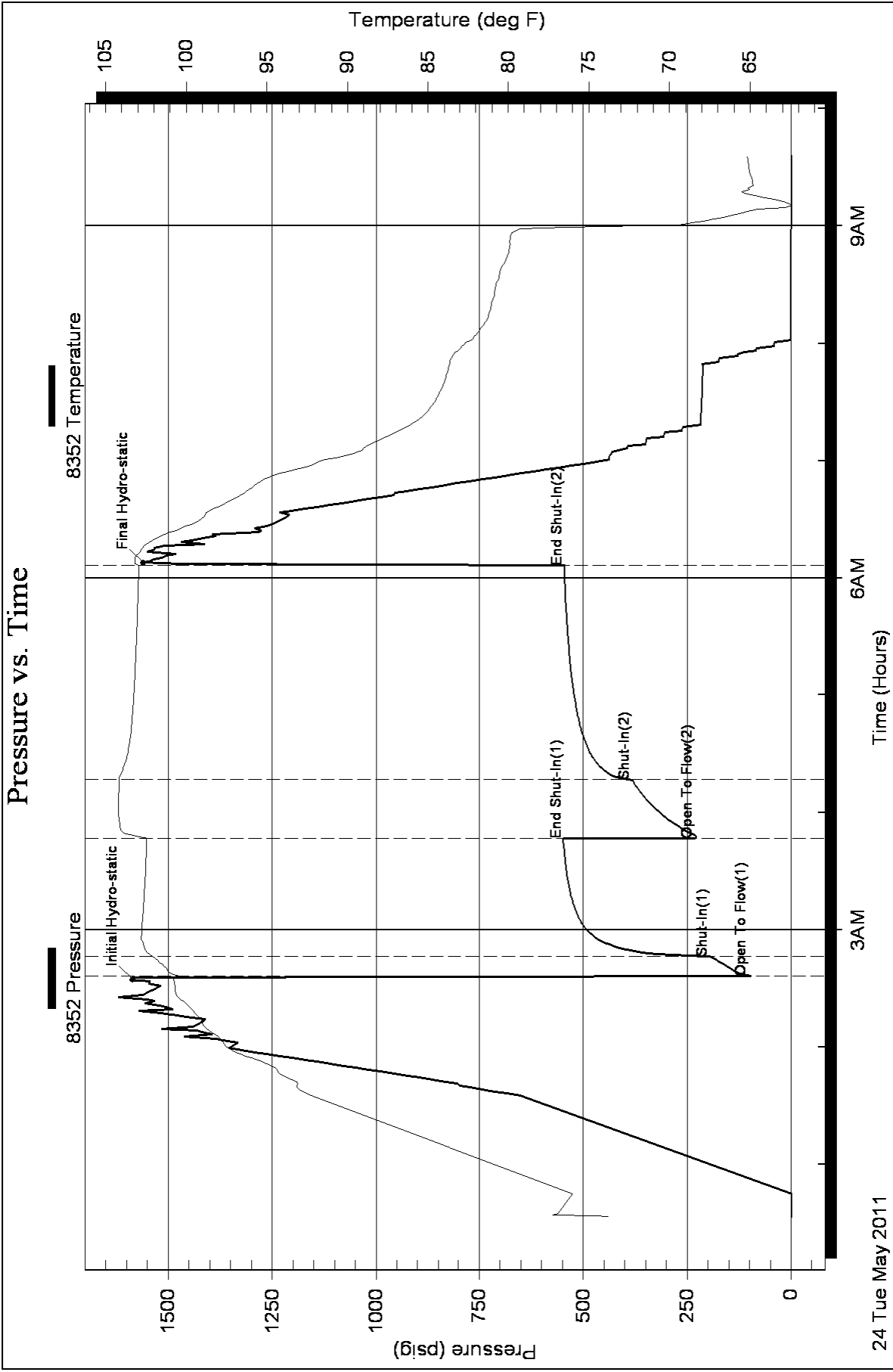
Total Length: 775.00 ft Total Volume: 10.871 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Resistivity= .05@65=200000

Samp. Data= g=1/8cf o=400ml m=600ml w=1000ml press=65lbs



Serial #: 8650

Fluid

Samuel Gary Jr. and Assoc. inc

23-16s-16w Rush

DST Test Number: 1

