



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

IA Operating, Inc

9915 W 21st Street North
Suite B
Wichita, KS 67205
ATTN: Randy Kilian

24/8s/27w Sheridan KS

Ruby #24-1

Job Ticket: 46154

DST#: 1

Test Start: 2012.04.30 @ 23:15:00

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:55:30

Time Test Ended: 06:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

Interval: 3738.00 ft (KB) To 3760.00 ft (KB) (TVD)

Total Depth: 3760.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2550.00 ft (KB)

2545.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 329.00 psig @ 3739.00 ft (KB)

Start Date: 2012.04.30

End Date:

2012.05.01

Start Time: 23:15:05

End Time:

06:02:59

Capacity: 8000.00 psig

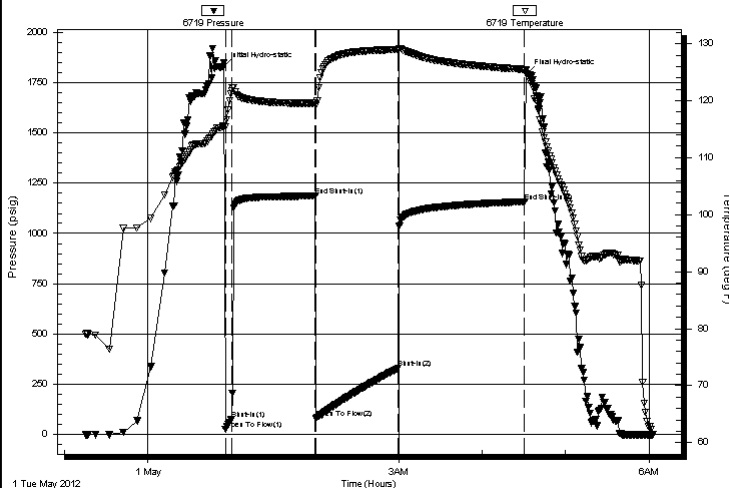
Last Calib.: 2012.05.01

Time On Btm: 2012.05.01 @ 00:54:00

Time Off Btm: 2012.05.01 @ 04:32:30

TEST COMMENT: 5 - IF: Blow built to 6"
60 - IS: Bled off, No blow back
60 - FF: Blow built to BOB (11") in 11 min.
90 - FS: Bled off, No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1830.90	115.58	Initial Hydro-static
2	27.38	115.37	Open To Flow (1)
6	75.99	121.73	Shut-In(1)
66	1186.15	119.58	End Shut-In(1)
67	80.71	119.23	Open To Flow (2)
126	329.00	128.95	Shut-In(2)
217	1157.65	125.48	End Shut-In(2)
219	1793.45	124.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
556.00	Water 96%w, 4%m	6.70
62.00	MCW 88%w, 12%m	0.87
62.00	WM 54%m, 46%w	0.87

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

I A Operating, Inc

24/8s/27w Sheridan KS

9915 W 21st Street North
Suite B
Wichita, KS 67205
ATTN: Randy Kilian

Ruby #24-1

Job Ticket: 46154

DST#: 1

Test Start: 2012.04.30 @ 23:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 6.40 in³

Resistivity: ohm.m

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity: 78000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
556.00	Water 96%w , 4%m	6.697
62.00	MCW 88%w , 12%m	0.870
62.00	WM 54%m, 46%w	0.870

Total Length: 680.00 ft Total Volume: 8.437 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .128 ohms @ 54.8 deg F

Chlorides = 78,000 ppm

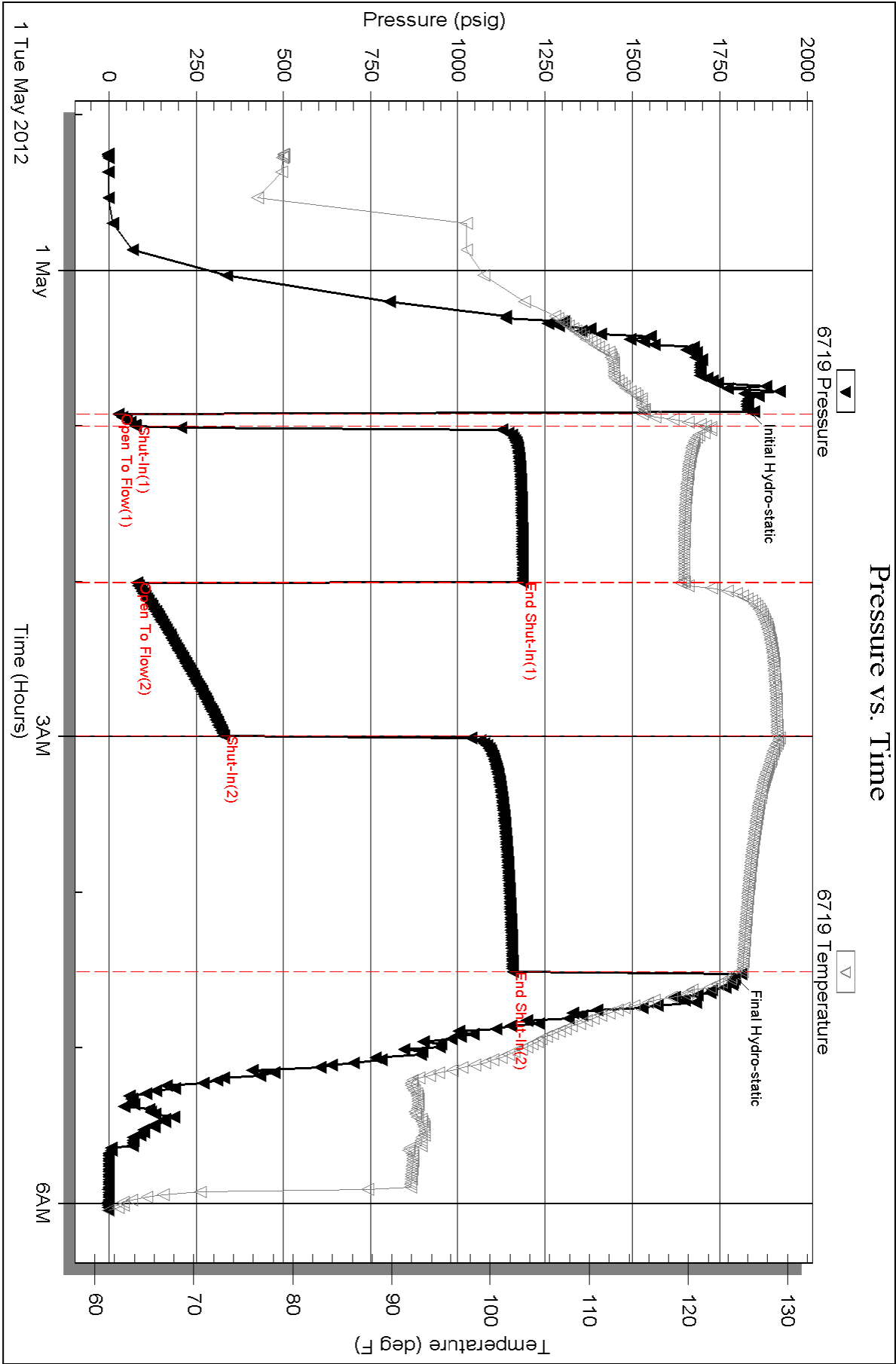
Serial #: 6719

Inside

IA Operating, Inc

Ruby #24-1

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

IA Operating, Inc

9915 W 21st Street North
Suite B
Wichita, KS 67205
ATTN: Randy Kilian

24/8s/27w Sheridan KS

Ruby #24-1

Job Ticket: 46155

DST#: 2

Test Start: 2012.05.01 @ 15:55:00

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:39:00

Time Test Ended: 21:04:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 3832.00 ft (KB) To 3860.00 ft (KB) (TVD)

Total Depth: 3860.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2550.00 ft (KB)

2545.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 54.43 psig @ 3833.00 ft (KB)

Start Date: 2012.05.01

End Date:

2012.05.01

Start Time: 15:55:05

End Time:

21:04:29

Capacity: 8000.00 psig

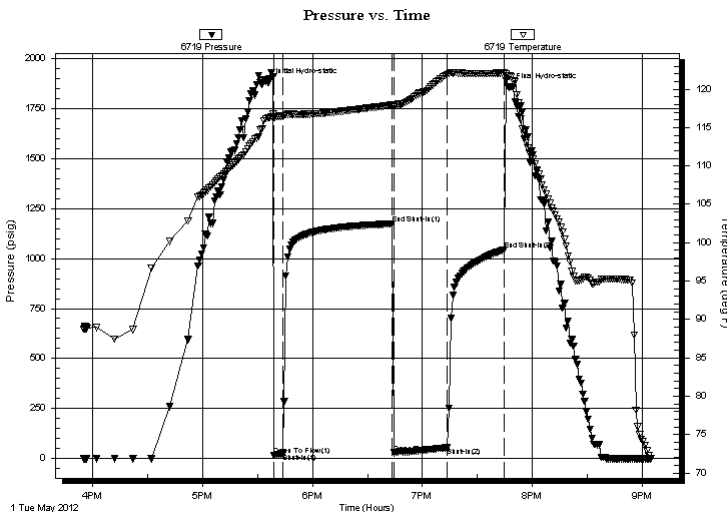
Last Calib.: 2012.05.01

Time On Btm: 2012.05.01 @ 17:36:00

Time Off Btm: 2012.05.01 @ 19:47:30

TEST COMMENT: 5 - IF: Blow built to 3/4"
60 - IS: Bled off, No blow back
30 - FF: Blow started at 18 min., built to 1/2"
30 - FS: Bled off, No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1881.56	116.30	Initial Hydro-static
3	16.72	116.38	Open To Flow (1)
8	24.74	116.52	Shut-In(1)
68	1173.93	117.93	End Shut-In(1)
69	28.55	117.66	Open To Flow (2)
98	54.43	121.89	Shut-In(2)
129	1043.47	122.12	End Shut-In(2)
132	1857.08	121.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	WCM 66% _m , 34% _w	0.39
0.00	Oil spots in tool	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

I A Operating, Inc

24/8s/27w Sheridan KS

9915 W 21st Street North
Suite B
Wichita, KS 67205
ATTN: Randy Kilian

Ruby #24-1

Job Ticket: 46155

DST#: 2

Test Start: 2012.05.01 @ 15:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 6.38 in³

Resistivity: ohm.m

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 31000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	WCM 66%m, 34%w	0.393
0.00	Oil spots in tool	0.000

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .215 ohms @ 76 deg F

Chlorides = 31,000 ppm

Serial #: 6719

Inside

IA Operating, Inc

Ruby #24-1

DST Test Number: 2

Pressure vs. Time

