

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Caerus Kansas LLC

PO Box 1378
Hays Ks 67601

ATTN: Jeff Lawler

23-17-13, Barton, Ks

Hoffman Ranch #23-23

Job Ticket: 46213

DST#: 1

Test Start: 2011.12.10 @ 07:59:43

GENERAL INFORMATION:

Formation: **KC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:41:13

Time Test Ended: 12:20:13

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 47

Interval: 3112.00 ft (KB) To 3144.00 ft (KB) (TVD)

Reference Elevations: 1865.00 ft (KB)

Total Depth: 3144.00 ft (KB) (TVD)

1856.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 9.00 ft

Serial #: 6753 Inside

Press@RunDepth: psig @ 3113.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.10

End Date:

2011.12.10

Last Calib.: 2011.12.10

Start Time: 07:59:48

End Time:

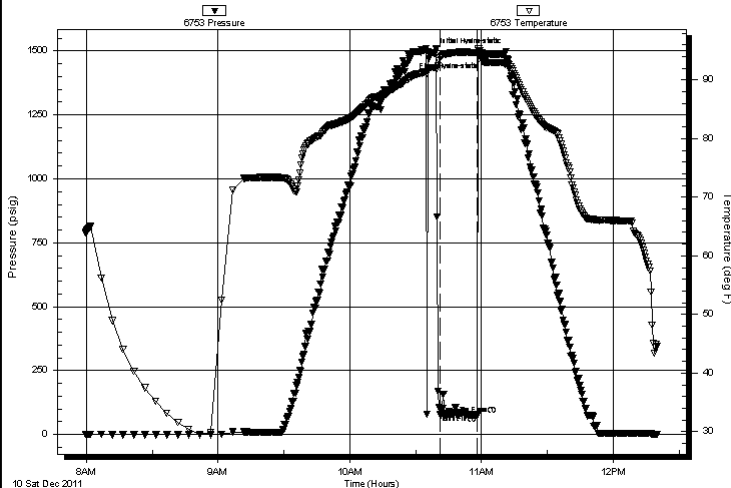
12:20:12

Time On Btm: 2011.12.10 @ 10:37:43

Time Off Btm: 2011.12.10 @ 11:02:13

TEST COMMENT: IF-Very weak surface blow tool slid 25ft

Pressure vs. Time



PRESSURE SUMMARY

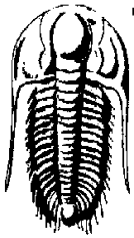
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1493.01	92.11	Initial Hydro-static
4	78.36	93.75	Open To Flow (1)
21	77.64	94.65	Shut-In(1)
25	1487.83	93.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	Mud	1.54

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Hoffman Ranch #23-23

Job Ticket: 46213

DST#: 1

ATTN: Jeff Lawler

Test Start: 2011.12.10 @ 07:59:43

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	Mud	1.543

Total Length: 110.00 ft

Total Volume: 1.543 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

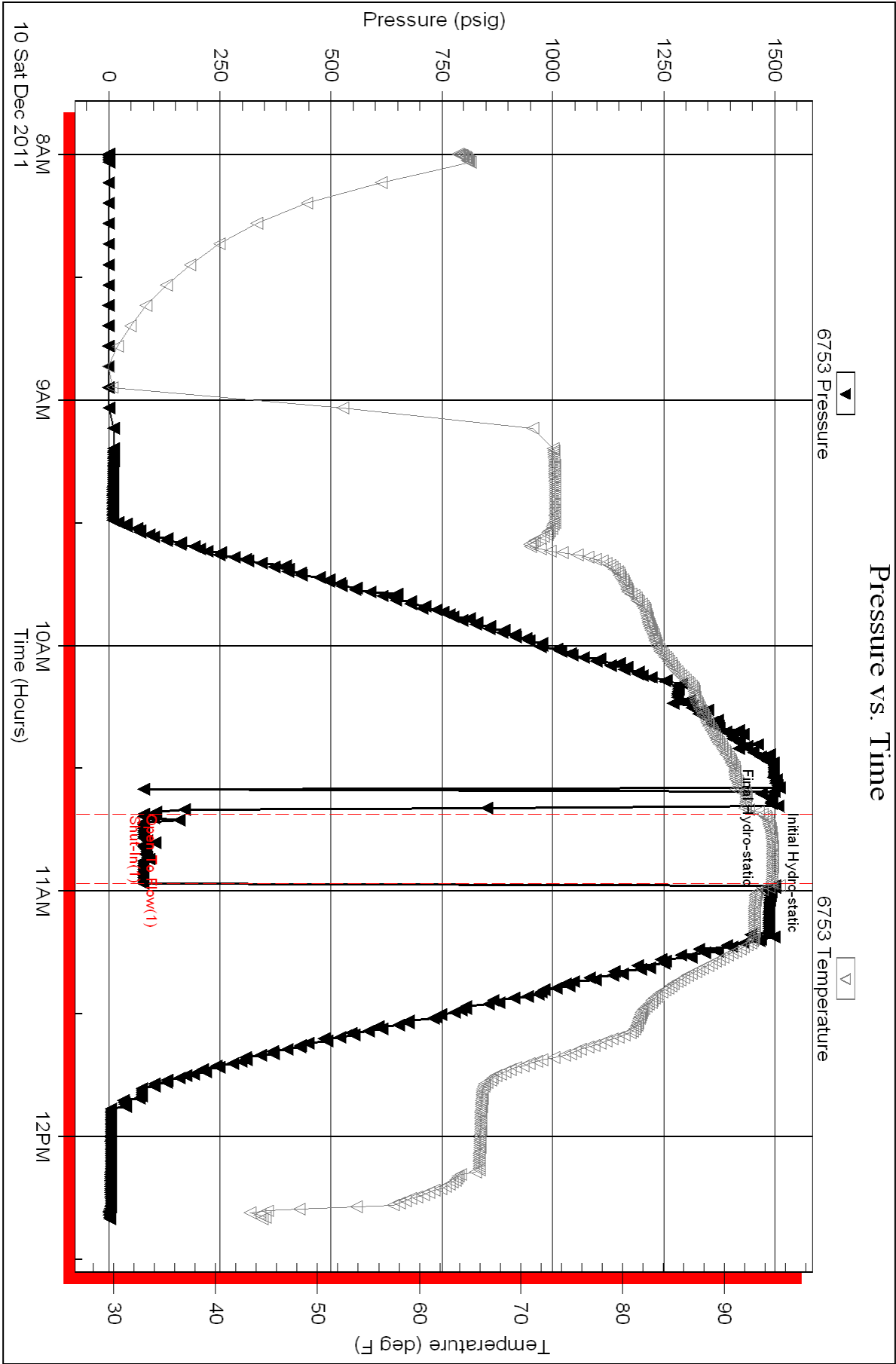
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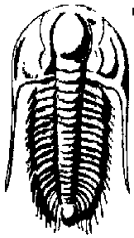
Inside

Caerus Kansas LLC

Hoffman Ranch #23-23

DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Caerus Kansas LLC

23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

ATTN: Jeff Lawler

Job Ticket: 46214

DST#: 2

Test Start: 2011.12.10 @ 16:10:15

GENERAL INFORMATION:

Formation: **KC"A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:21:45

Time Test Ended: 22:05:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 47

Interval: 3109.00 ft (KB) To 3144.00 ft (KB) (TVD)

Total Depth: 3144.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1865.00 ft (KB)

1856.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6753 Inside

Press@RunDepth: 27.48 psig @ 3110.00 ft (KB)

Start Date: 2011.12.10

End Date:

2011.12.10

Start Time: 16:10:20

End Time:

22:05:14

Capacity: 8000.00 psig

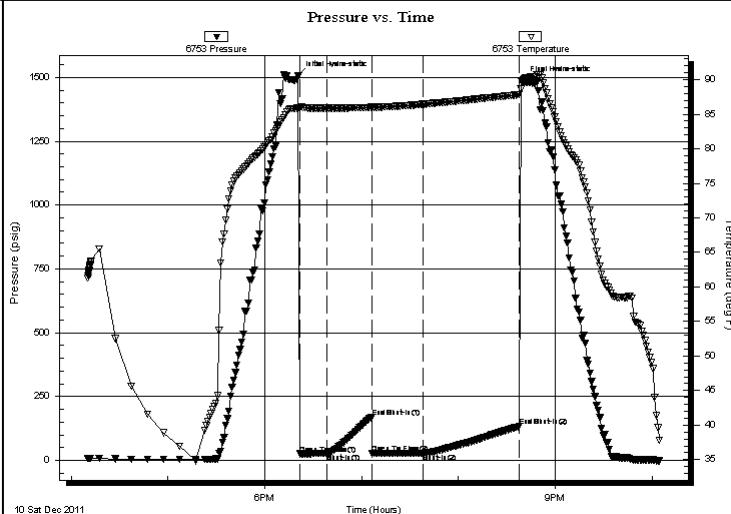
Last Calib.: 2011.12.10

Time On Btm: 2011.12.10 @ 18:20:45

Time Off Btm: 2011.12.10 @ 20:40:15

TEST COMMENT: IF-1/4in blow
ISI-No blow
FF-Very weak surface blow
FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1506.00	85.90	Initial Hydro-static
1	25.13	85.85	Open To Flow (1)
18	27.31	85.86	Shut-In(1)
46	167.57	86.02	End Shut-In(1)
46	26.70	85.98	Open To Flow (2)
78	27.48	86.45	Shut-In(2)
137	132.27	87.84	End Shut-In(2)
140	1486.99	90.02	Final Hydro-static

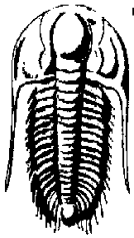
Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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FLUID SUMMARY

Caerus Kansas LLC

23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

Job Ticket: 46214

DST#: 2

ATTN: Jeff Lawler

Test Start: 2011.12.10 @ 16:10:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud	0.210

Total Length: 15.00 ft

Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

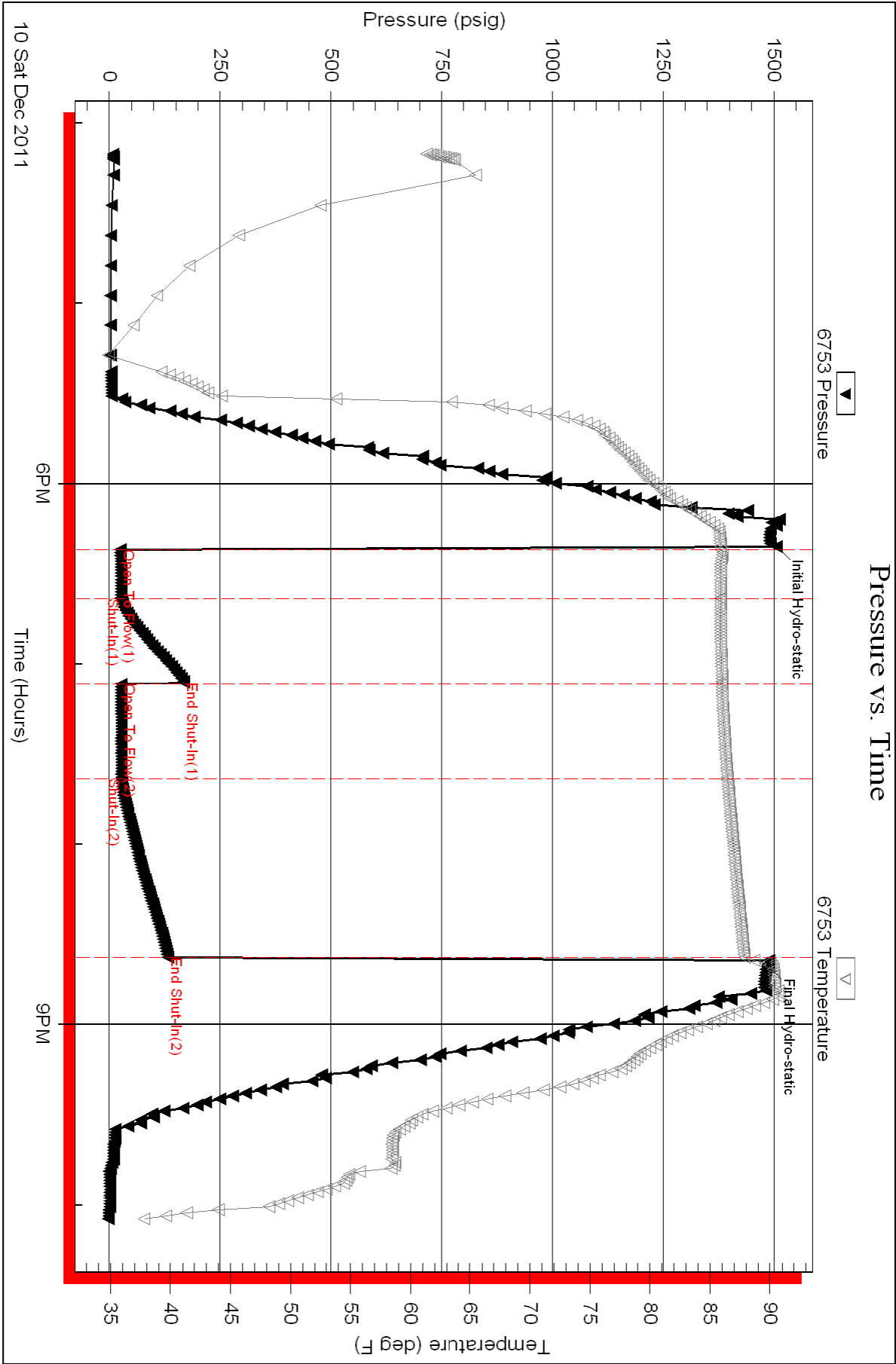
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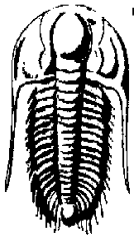
Inside

Caerus Kansas LLC

Hoffman Ranch #23-23

DST Test Number: 2





TRILOBITE
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DRILL STEM TEST REPORT

Caerus Kansas LLC

23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

ATTN: Jeff Lawler

Job Ticket: 46331

DST#: 3

Test Start: 2011.12.11 @ 08:26:00

GENERAL INFORMATION:

Formation: **LKC "C-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:43:30

Time Test Ended: 15:47:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 47

Interval: 3153.00 ft (KB) To 3196.00 ft (KB) (TVD)

Total Depth: 3196.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1865.00 ft (KB)

1856.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6753 Inside

Press@RunDepth: 42.88 psig @ 3191.00 ft (KB)

Start Date: 2011.12.11

End Date:

2011.12.11

Start Time: 08:26:05

End Time:

15:46:59

Capacity: 8000.00 psig

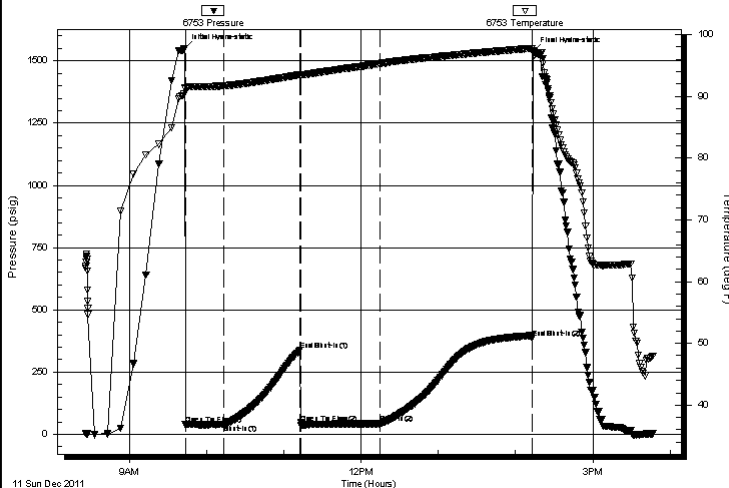
Last Calib.: 2011.12.11

Time On Btm: 2011.12.11 @ 09:43:00

Time Off Btm: 2011.12.11 @ 14:13:30

TEST COMMENT: 30 - IF- 4" Blow
60 - IS- Weak surface blow, died in 15 Min.
60 - FF- B.O.B. in 31 Min.
120 - FS- No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1550.14	91.33	Initial Hydro-static
1	38.75	91.18	Open To Flow (1)
31	40.00	91.72	Shut-In(1)
90	337.04	93.50	End Shut-In(1)
90	45.79	93.41	Open To Flow (2)
152	42.88	95.25	Shut-In(2)
270	387.66	97.78	End Shut-In(2)
271	1536.53	97.33	Final Hydro-static

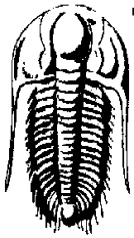
Recovery

Length (ft)	Description	Volume (bbl)
20.00	5%G, 25%O, 70%M	0.28
0.00	124' of G.I.P.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

Job Ticket: 46331

DST#: 3

ATTN: Jeff Lawler

Test Start: 2011.12.11 @ 08:26:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	5%G, 25%O, 70%M	0.281
0.00	124' of G.I.P.	0.000

Total Length: 20.00 ft

Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

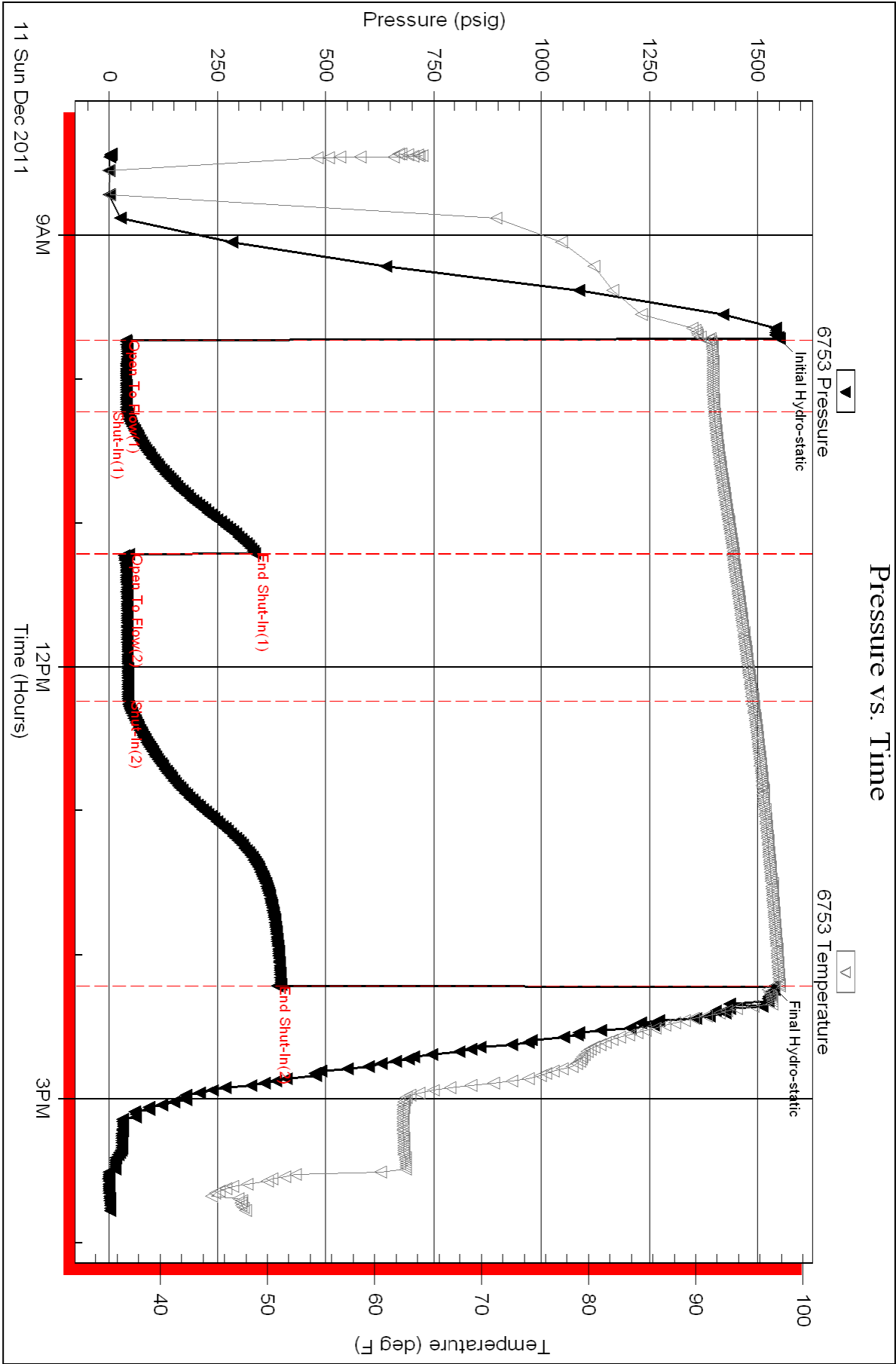
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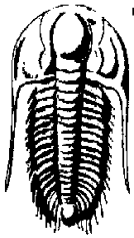
Inside

Caerus Kansas LLC

Hoffman Ranch #23-23

DST Test Number: 3





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Caerus Kansas LLC

23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

ATTN: Jeff Lawler

Job Ticket: 46332

DST#: 4

Test Start: 2011.12.11 @ 23:23:00

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:57:30

Time Test Ended: 05:12:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 47

Interval: 3193.00 ft (KB) To 3210.00 ft (KB) (TVD)

Reference Elevations: 1865.00 ft (KB)

Total Depth: 3210.00 ft (KB) (TVD)

1856.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6753 Inside

Press@RunDepth: 22.23 psig @ 3194.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.11

End Date:

2011.12.12

Last Calib.: 1899.12.30

Start Time: 23:23:05

End Time:

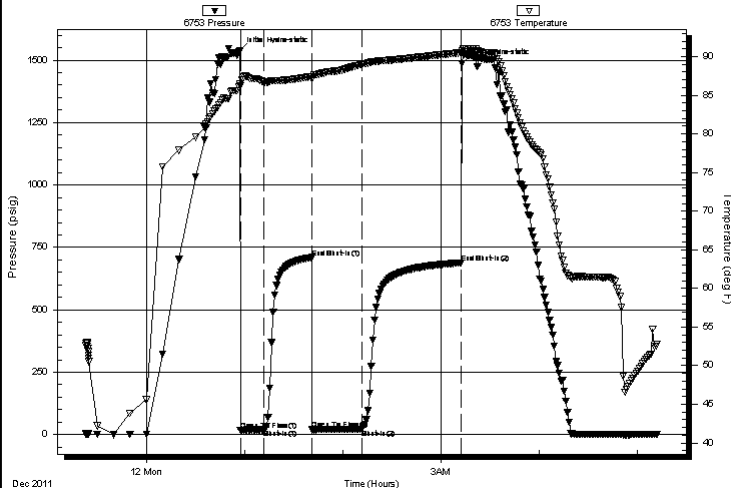
05:12:29

Time On Btm: 2011.12.12 @ 00:57:00

Time Off Btm: 2011.12.12 @ 03:13:00

TEST COMMENT: 15 - IF- 3/4" blow
30 - IS- No blow back
30 - FF- 1/4" blow
60 - FS- No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1536.50	86.49	Initial Hydro-static
1	17.24	86.29	Open To Flow (1)
15	19.73	86.73	Shut-In(1)
44	709.33	87.42	End Shut-In(1)
45	19.60	87.17	Open To Flow (2)
75	22.23	89.02	Shut-In(2)
136	688.44	90.52	End Shut-In(2)
136	1487.11	90.83	Final Hydro-static

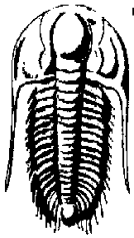
Recovery

Length (ft)	Description	Volume (bbl)
10.00	VSOCM, 5%O, 95%M	0.14

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Kansas LLC

23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

Job Ticket: 46332

DST#: 4

ATTN: Jeff Lawler

Test Start: 2011.12.11 @ 23:23:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	VSOCM, 5%O, 95%M	0.140

Total Length: 10.00 ft

Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

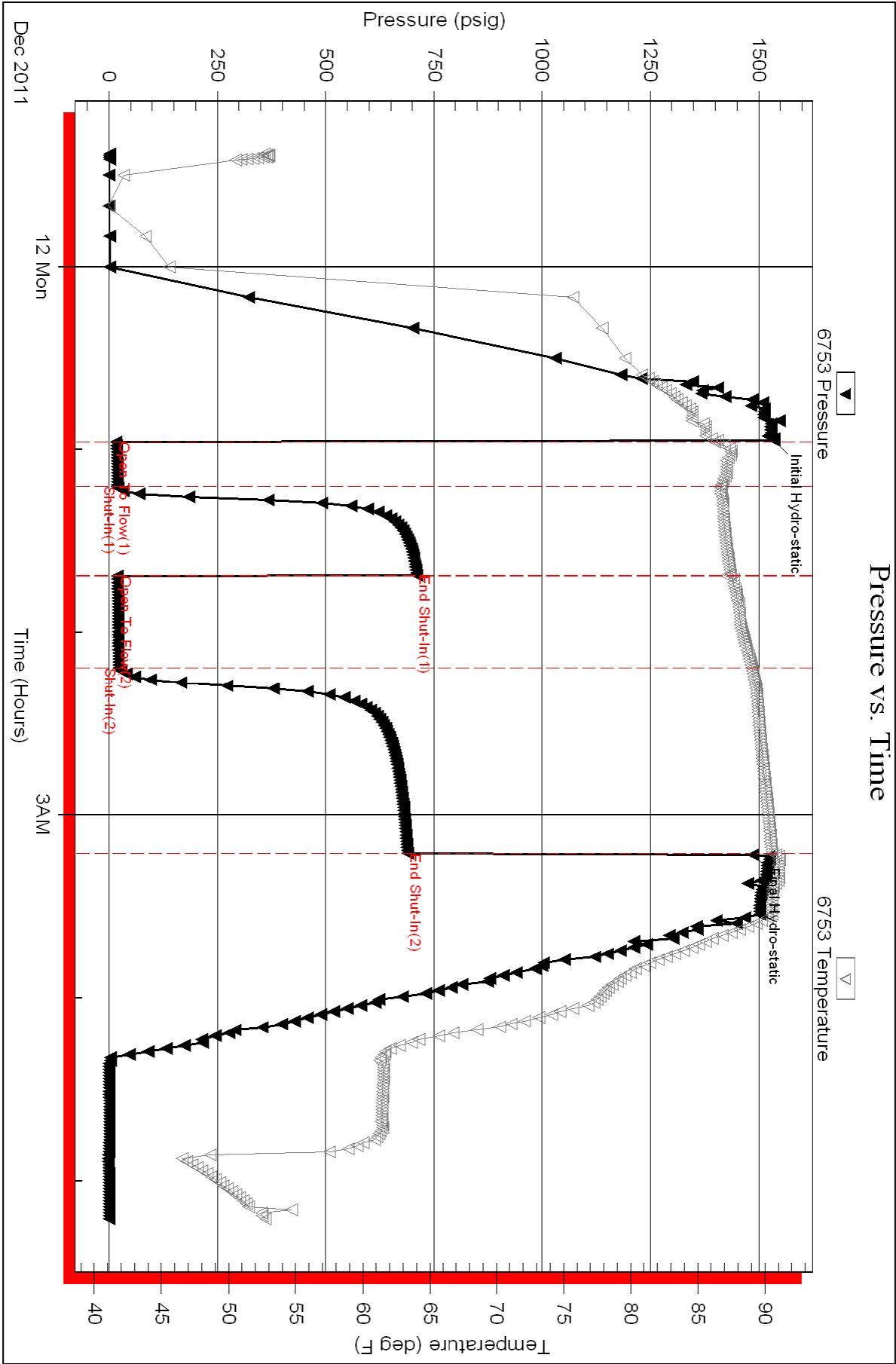
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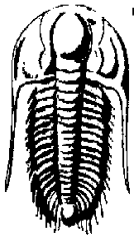
Inside

Caerus Kansas LLC

Hoffman Ranch #23-23

DST Test Number: 4





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Caerus Kansas LLC

PO Box 1378
Hays Ks 67601

ATTN: Jeff Lawler

23-17-13, Barton, Ks

Hoffman Ranch #23-23

Job Ticket: 46333

DST#: 5

Test Start: 2011.12.12 @ 21:49:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:18:30

Time Test Ended: 06:05:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 47

Interval: 3330.00 ft (KB) To 3369.00 ft (KB) (TVD)

Total Depth: 3369.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1865.00 ft (KB)

1856.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6753 Inside

Press@RunDepth: 324.77 psig @ 3366.00 ft (KB)

Start Date: 2011.12.12

End Date:

2011.12.13

Start Time: 21:49:05

End Time:

06:04:59

Capacity: 8000.00 psig

Last Calib.: 2011.12.13

Time On Btm: 2011.12.12 @ 23:17:30

Time Off Btm: 2011.12.13 @ 03:51:00

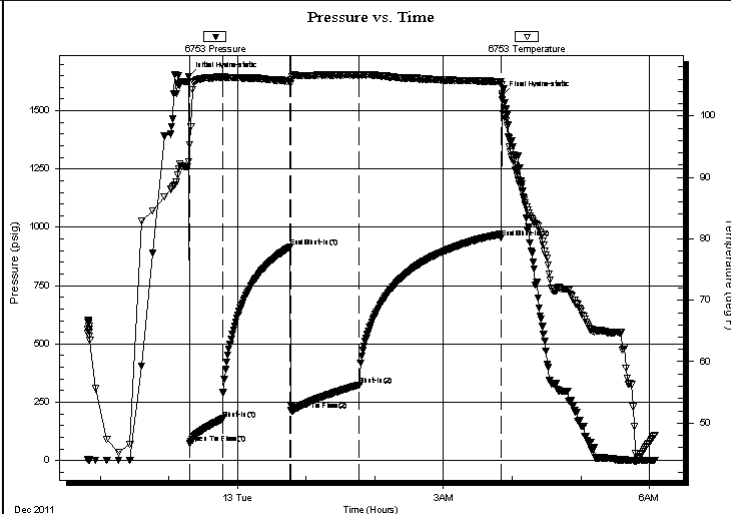
TEST COMMENT: 30 - IF- B.O.B. in 1 1/2 Min.

60 - IS- No blow back

60 - FF- B.O.B. in 5 Min.

120 - FS- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1646.68	92.50	Initial Hydro-static
1	75.49	95.28	Open To Flow (1)
30	179.32	106.33	Shut-In(1)
89	915.13	105.61	End Shut-In(1)
90	216.11	105.98	Open To Flow (2)
149	324.77	106.65	Shut-In(2)
273	954.24	105.61	End Shut-In(2)
274	1564.84	105.10	Final Hydro-static

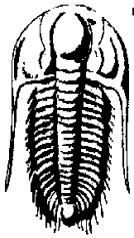
Recovery

Length (ft)	Description	Volume (bbl)
62.00	VSOCM, 5%O, 95%M	0.87
372.00	VSOCMW, 5%O, 30%M, 65%W	5.22
228.00	GVSOCM, 5%G, 5%O, 90%M	3.20
20.00	GO, 5%G, 95%O	0.28

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Kansas LLC

23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

Job Ticket: 46333

DST#: 5

ATTN: Jeff Lawler

Test Start: 2011.12.12 @ 21:49:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	VSOCM, 5%O, 95%M	0.870
372.00	VSOCMW, 5%O, 30%M, 65%W	5.218
228.00	GVSOCM, 5%G, 5%O, 90%M	3.198
20.00	GO, 5%G, 95%O	0.281

Total Length: 682.00 ft

Total Volume: 9.567 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Salinity: .28 @ 38 Degrees = 50,000

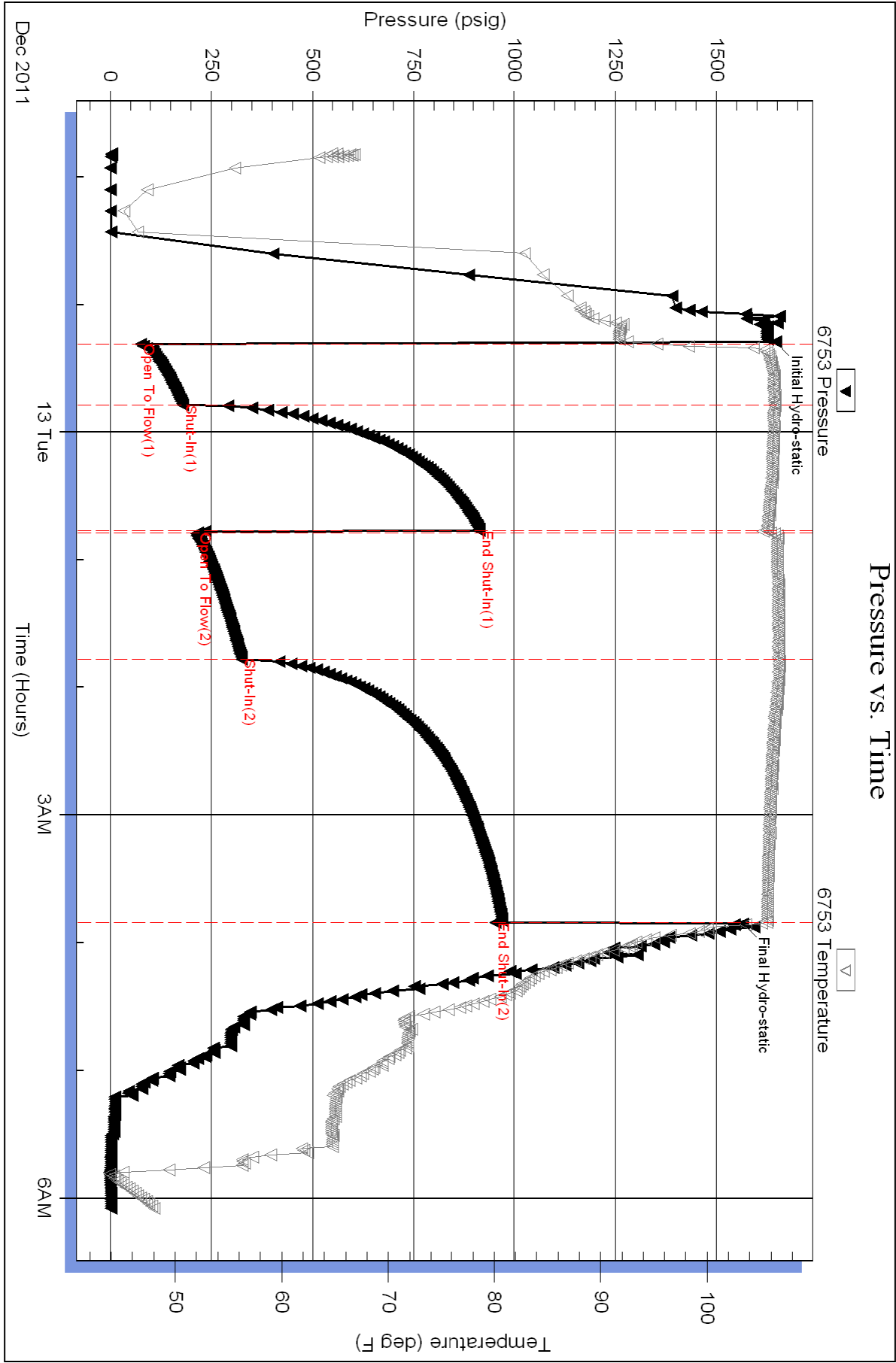
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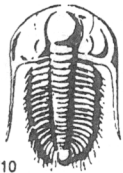
Inside

Caerus Kansas LLC

Hoffman Ranch #23-23

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
DEC 15 2011

Test Ticket

16740

NO. 46213

BY: _____

Well Name & No. Hoffman Ranch 23-23 Test No. 1 Date 12/10/11

Company Caerus Kansas LLC Elevation 1865 KB 1856 GL _____

Address PO Box 1378 Hays KS 67601

Co. Rep / Geo. Jeff Lawler Rig Maverick 108

Location: Sec. 23 Twp. 17 Rge. 13 Co. Barton State KS

Interval Tested 3112 - 3144 Zone Tested KC "A"

Anchor Length 32 Drill Pipe Run 3088 Mud Wt. 9.2

Top Packer Depth 3107 Drill Collars Run — Vis 49

Bottom Packer Depth 3112 Wt. Pipe Run — WL 8.0

Total Depth 3144 Chlorides 3,000 ppm System LCM 1 1/2 #

Blow Description IF - Very wet surface blow Tool slid 25ft
ISI -

Rec <u>110</u>	Feet of <u>Mud</u>	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 110 BHT 94 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1493 ☒ Test 1125' T-On Location 7:00

(B) First Initial Flow 78 ☒ Jars 250' T-Started 8:00

(C) First Final Flow 78 ☒ Safety Joint 75' T-Open 10:40

(D) Initial Shut-In _____ ☐ Circ Sub _____ T-Pulled 11:00

(E) Second Initial Flow _____ ☐ Hourly Standby _____ T-Out 12:20

(F) Second Final Flow _____ ☒ Mileage 59x2 118RT 160.20 Comments _____

(G) Final Shut-In _____ ☐ Sampler _____

(H) Final Hydrostatic 1488 ☐ Straddle _____ ☐ Ruined Shale Packer _____

Initial Open 20 ☐ Shale Packer _____ ☐ Ruined Packer _____

Initial Shut-In _____ ☐ Extra Packer _____ ☐ Extra Copies _____

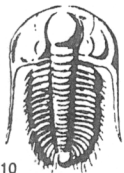
Final Flow _____ ☐ Extra Recorder _____ Sub Total 0

Final Shut-In _____ ☐ Day Standby _____ Total 1615.20

Sub Total 1615.20 ☐ Accessibility _____ MP/DST Disc't _____

Approved By _____ Our Representative Brett Dickinson

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**TRILOBITE
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
DEC 15 2011

Test Ticket

NO. 46214

4/10

BY: _____

Well Name & No. Hoffman Ranch #23-23 Test No. 2 Date 12/10/11
 Company Caurus Kansas LLC Elevation 1865 KB 1856 GL
 Address PO Box 1378 Hays KS 67601
 Co. Rep / Geo. Jeff Lawler Rig Maverick #108
 Location: Sec. 23 Twp. 17 Rge. 13 Co. Barton State KS

Interval Tested 3109 - 3144 Zone Tested KC "A"
 Anchor Length 35 Drill Pipe Run 3088' Mud Wt. 9.2
 Top Packer Depth 3104 Drill Collars Run — Vis 49
 Bottom Packer Depth 3109 Wt. Pipe Run — WL 8.0
 Total Depth 3144 Chlorides 3,000 ppm System LCM 1 1/2

Blow Description 7F - 1/4 in blow
FSI - No blow
FF - very weak surface blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1,506</u>	☒ Test <u>1125</u>	T-On Location _____
(B) First Initial Flow <u>25</u>	☒ Jars <u>250</u>	T-Started <u>16:10</u>
(C) First Final Flow <u>27</u>	☒ Safety Joint <u>75'</u>	T-Open <u>18:20</u>
(D) Initial Shut-In <u>168</u>	☐ Circ Sub _____	T-Pulled <u>20:35</u>
(E) Second Initial Flow <u>27</u>	☐ Hourly Standby _____	T-Out <u>22:05</u>
(F) Second Final Flow <u>27</u>	☒ Mileage <u>59x2 118RT 14520</u>	Comments _____
(G) Final Shut-In <u>132</u>	☐ Sampler _____	
(H) Final Hydrostatic <u>1,487</u>	☐ Straddle _____	☐ Ruined Shale Packer _____
	☐ Shale Packer _____	☐ Ruined Packer _____
	☐ Extra Packer _____	☐ Extra Copies _____
	☐ Extra Recorder _____	Sub Total <u>8</u>
	☐ Day Standby _____	Total <u>1415.20</u>
	☐ Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1415.20</u>	

Initial Open 15
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 60

Approved By _____

Our Representative Butt Dickinson

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
DEC 13 2011

Test Ticket

NO. 46331

BY: _____

Well Name & No. Hoffman Ranch #23-23 Test No. 3 Date 12-11-11

Company Caerus Kansas LLC Elevation 1865 KB 1856 GL _____

Address P.O. Box 1378, Hays KS, 67601

Co. Rep / Geo. Jeff Lawler Rig Maverick # 108

Location: Sec. 23 Twp. 17 Rge. 13 Co. Barton State KS

Interval Tested 3153-3196 Zone Tested LKC "C-F"

Anchor Length 43 Drill Pipe Run 3143 Mud Wt. 9.2

Top Packer Depth 3148 Drill Collars Run — Vis 49

Bottom Packer Depth 3153 Wt. Pipe Run — WL 7.9

Total Depth 3196 Chlorides 3000 ppm System LCM —

Blow Description IF-4" blow

ISI - Weak surface blow, died in 15 Min.

FF-B.O.B in 31 Min.

FSI - No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20'</u>	<u>60CM</u>	<u>5</u>	<u>25</u>	<u>70</u>	
<u>⊙</u>	<u>124' of G.I.P.</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20' BHT 97° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>1550</u>	☒ Test	<u>1125-</u>	T-On Location	<u>7:59 am</u>
(B) First Initial Flow	<u>38</u>	☒ Jars	<u>250-</u>	T-Started	<u>8:26 am</u>
(C) First Final Flow	<u>40</u>	☒ Safety Joint	<u>75'</u>	T-Open	<u>9:43 am</u>
(D) Initial Shut-In	<u>337</u>	☐ Circ Sub		T-Pulled	<u>2:13 pm</u>
(E) Second Initial Flow	<u>45</u>	☐ Hourly Standby		T-Out	<u>3:47 pm</u>
(F) Second Final Flow	<u>42</u>	☒ Mileage	<u>59x2 118RT 165.20</u>	Comments	
(G) Final Shut-In	<u>387</u>	☐ Sampler			
(H) Final Hydrostatic	<u>1536</u>	☐ Straddle		☐ Ruined Shale Packer	

Initial Open 30

Initial Shut-In 60

Final Flow 60

Final Shut-In 120

☐ Shale Packer

☐ Extra Packer

☐ Extra Recorder

☐ Day Standby

☐ Accessibility

☐ Ruined Packer

☐ Extra Copies

Sub Total ⊙

Total 11615.20

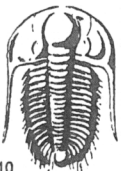
MP/DST Disc't _____

Sub Total 11615.20

Approved By _____

Our Representative Cody Bloedorn

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
DEC 13 2011

Test Ticket

NO. 46332

BY: _____

Well Name & No. Hoffman Ranch #23-23 Test No. 4 Date 12-11-11

Company Caerus Kansas LLC Elevation 1865 KB 1856 GL _____

Address P.O. Box 1378, Hays KS, 67601

Co. Rep / Geo. Jeff Lawler Rig Maverick #108

Location: Sec. 23 Twp. 17 Rge. 13 Co. Barton State KS

Interval Tested 3193-3210 Zone Tested LKC "G"

Anchor Length 17' Drill Pipe Run 3179 Mud Wt. 9.2

Top Packer Depth 3188 Drill Collars Run — Vis 49

Bottom Packer Depth 3193 Wt. Pipe Run — WL 7.9

Total Depth 3210 Chlorides 3,000 ppm System LCM —

Blow Description IF - 3/4" blow

ISI - No blow back

FF - " blow

FSI -

Rec <u>10'</u>	Feet of <u>VSOCM</u>	%gas <u>5</u>	%oil	%water <u>95</u>	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 10 BHT 90° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1536 ☒ Test 1125 T-On Location 10:30 pm

(B) First Initial Flow 17 ☒ Jars 250 T-Started 11:23 pm

(C) First Final Flow 19 ☒ Safety Joint 75 T-Open 12:57 am

(D) Initial Shut-In 709 ☐ Circ Sub _____ T-Pulled 3:12 am

(E) Second Initial Flow 19 ☐ Hourly Standby _____ T-Out 5:13 am

(F) Second Final Flow 22 ☒ Mileage 59X2 118RT 145.20 Comments _____

(G) Final Shut-In 688 ☐ Sampler _____

(H) Final Hydrostatic 1487 ☐ Straddle _____

Initial Open 15 ☐ Ruined Shale Packer _____

Initial Shut-In 30 ☐ Ruined Packer _____

Final Flow 30 ☐ Extra Packer _____

Final Shut-In 60 ☐ Extra Recorder _____

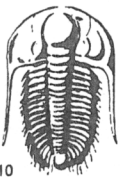
Sub Total 11615.20 ☐ Day Standby _____

☐ Accessibility _____

Total 11615.20 ☐ MP/DST Disc't _____

Approved By _____ Our Representative Cody Bloodorn

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TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
DEC 13 2011

Test Ticket

NO. 46333

Well Name & No. Hoffman Ranch #23-23 Test No. 5 Date 12-12-11
Company Caerus Kansas LLC Elevation 1865 KB 1856 GL
Address Po Box 1378, Hays KS, 67601
Co. Rep / Geo. Jeff Lawler Rig Maverick 108
Location: Sec. 23 Twp. 17 Rge. 13 Co. Barton State KS

Interval Tested 3330-3369 Zone Tested Arbuckle
Anchor Length 39' Drill Pipe Run 3332 Mud Wt. 9.2
Top Packer Depth 3325 Drill Collars Run — Vis 46
Bottom Packer Depth 3330 Wt. Pipe Run — WL 8.8
Total Depth 3369 Chlorides 3600 ppm System LCM —

Blow Description IF-B.O.B in 1 1/2 Min.

*SI- No blow back

FF-B.O.B in 5 Min.

FSI- No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>VSOCM</u>	<u>5</u>	<u>5</u>	<u>95</u>	<u>—</u>
<u>372</u>	<u>VSOCMW</u>	<u>5</u>	<u>65</u>	<u>30</u>	<u>—</u>
<u>228</u>	<u>GVSOCM</u>	<u>5</u>	<u>5</u>	<u>90</u>	<u>—</u>
<u>20</u>	<u>60</u>	<u>5</u>	<u>95</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 682' BHT 105° Gravity 35 API RW .28 @ 38° F Chlorides 50,000 ppm

(A) Initial Hydrostatic <u>1646</u>	☒ Test <u>1125'</u>	T-On Location <u>8:05 pm</u>
(B) First Initial Flow <u>75</u>	☒ Jars <u>250'</u>	T-Started <u>9:49 pm</u>
(C) First Final Flow <u>179</u>	☒ Safety Joint <u>75'</u>	T-Open <u>11:18 pm</u>
(D) Initial Shut-In <u>915</u>	☐ Circ Sub <u>—</u>	T-Pulled <u>3:48 am</u>
(E) Second Initial Flow <u>216</u>	☐ Hourly Standby <u>1hr</u>	T-Out <u>6:06 am</u>
(F) Second Final Flow <u>324</u>	☒ Mileage <u>59 X 2 118rt 165.20</u>	Comments <u>—</u>
(G) Final Shut-In <u>954</u>	☐ Sampler <u>—</u>	☐ Ruined Shale Packer <u>—</u>
(H) Final Hydrostatic <u>1564</u>	☐ Straddle <u>—</u>	☐ Ruined Packer <u>—</u>

Initial Open 30
Initial Shut-In 60
Final Flow 60
Final Shut-In 120

☐ Extra Packer —
☐ Extra Recorder —
☐ Day Standby —
☐ Accessibility —
Sub Total 1715.20

Sub Total 1715.20
MP/DST Disc't —

Approved By —

Our Representative Cody Bloodorn

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