

**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

Showalter-Vandenburg Unit 1-17

PO Box 1019
Hays, Ks
67601
ATTN: Marc Downing

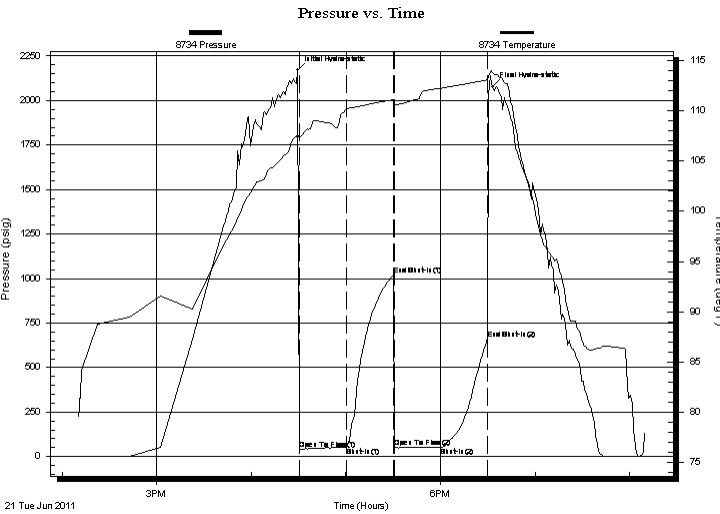
17-20-20 Pawnee, Ks
Job Ticket: 43411 **DST#: 1**
Test Start: 2011.06.21 @ 14:10:31

GENERAL INFORMATION:

Formation: **miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:30:31
 Time Test Ended: 20:10:01
 Interval: **4295.00 ft (KB) To 4352.00 ft (KB) (TVD)**
 Total Depth: 4352.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Brian Fairbank
 Unit No: 41
 Reference Elevations: 2228.00 ft (KB)
 2221.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8734 Outside
 Press @ Run Depth: 52.25 psig @ 4302.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.06.21 End Date: 2011.06.21 Last Calib.: 2011.06.21
 Start Time: 14:10:32 End Time: 20:10:01 Time On Btm: 2011.06.21 @ 16:29:31
 Time Off Btm: 2011.06.21 @ 18:33:01

TEST COMMENT: IFP - 1/2" dying blow throughout
 ISI - no blow back
 FFP - no blow 4 min - sur blow throughout
 FSI - no blow back



PRESSURE SUMMARY

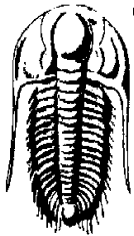
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.39	107.61	Initial Hydro-static
1	39.59	107.24	Open To Flow (1)
31	50.53	110.19	Shut-In(1)
61	1021.55	111.07	End Shut-In(1)
62	49.67	110.62	Open To Flow (2)
91	52.25	112.20	Shut-In(2)
121	657.83	113.05	End Shut-In(2)
124	2077.87	113.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
43.00	SOCM 5%O, 95%M	0.32
2.00	HOCM 45%O, 55%M	0.03

Gas Rates

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



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FLUID SUMMARY

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Showalter-Vandenburg Unit 1-17

PO Box 1019

17-20-20 Pawnee, Ks

Hays, Ks

Job Ticket: 43411

DST#: 1

67601

ATTN: Marc Downing

Test Start: 2011.06.21 @ 14:10:31

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
43.00	SOCM 5%O, 95%M	0.321
2.00	HOCM 45%O, 55%M	0.028

Total Length: 45.00 ft Total Volume: 0.349 bbl

Num Fluid Samples: 0

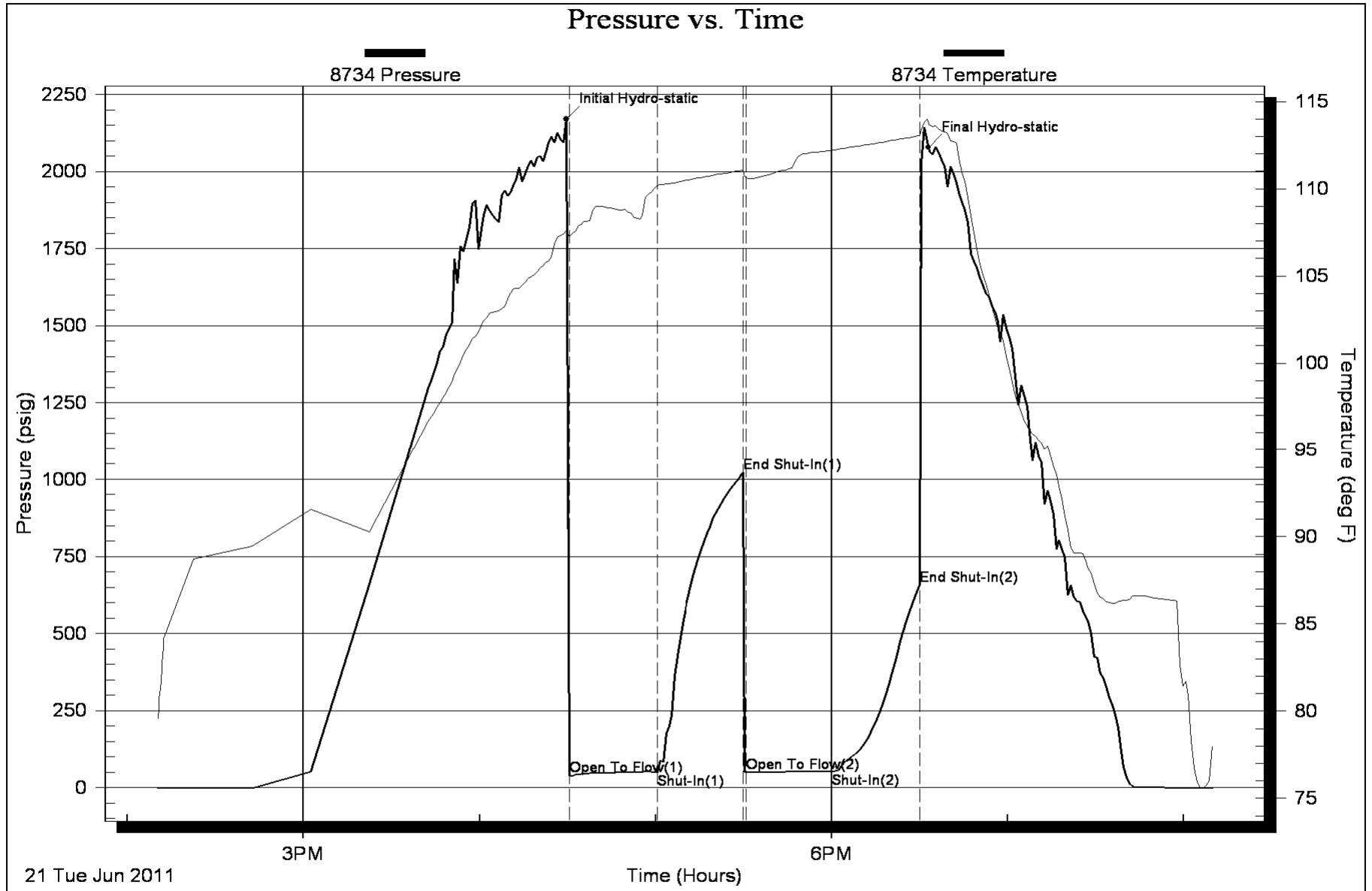
Num Gas Bombs: 0

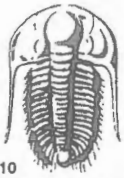
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 43411 15907

JUN 23 2011

Well Name & No. Shawalter-Vandenberg Unit 1-17 Test No. 1 Date 6-21-11
 Company DNOC Elevation 2228 KB 2221 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery 4
 Location: Sec. 17 Twp. 20 Rge. 20 Co. Powder State Ks

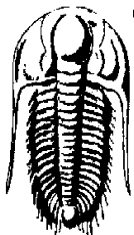
Interval Tested 4295 - 4352 Zone Tested M.S.W
 Anchor Length 57 Drill Pipe Run 4260 Mud Wt. 9.4
 Top Packer Depth 4280 Drill Collars Run 31 Vis 61
 Bottom Packer Depth 4295 Wt. Pipe Run --- WL 10.4
 Total Depth 4352 Chlorides 5000 ppm System LCM
 Blow Description IFF - 1/2" drying blow throughout
ISI - no blow back
FFP - no blow 4 min - ser blow throughout
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>HOCM</u>	<u>45</u>		<u>55</u>	
<u>43</u>	<u>SOCM</u>	<u>5</u>		<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45 BHT 113 Gravity API RW @ ° F Chlorides ppm
 (A) Initial Hydrostatic 2169 Test 1225' T-On Location 1310
 (B) First Initial Flow 40 Jars 255' T-Started 1410
 (C) First Final Flow 51 Safety Joint 75' T-Open 1630
 (D) Initial Shut-In 1022 Circ Sub _____ T-Pulled 1830
 (E) Second Initial Flow 50 Hourly Standby _____ T-Out 2010
 (F) Second Final Flow 52 Mileage 107 RT 149.80 Comments _____
 (G) Final Shut-In 658 Sampler _____
 (H) Final Hydrostatic 2078 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 11699.80 MP/DST Disc't _____

Approved By _____ Our Representative Brian Fairbank

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.



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DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

PO Box 1019
Hays, Ks
67601
ATTN: Marc Downing

Showalter-Vandenburg Unit 1-17

17-20-20 Pawnee, Ks

Job Ticket: 43412 **DST#: 2**
Test Start: 2011.06.22 @ 02:26:03

GENERAL INFORMATION:

Formation: **Osage**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:18:33

Time Test Ended: 08:36:03

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: 4349.00 ft (KB) To 4365.00 ft (KB) (TVD)

Reference Elevations: 2228.00 ft (KB)

Total Depth: 4365.00 ft (KB) (TVD)

2221.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 129.14 psig @ 4352.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.22 End Date: 2011.06.22

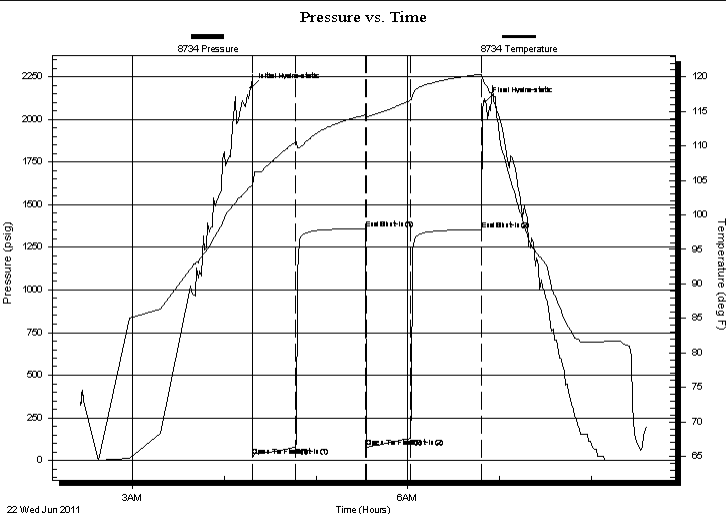
Last Calib.: 2011.06.22

Start Time: 02:26:04 End Time: 08:36:03

Time On Btm: 2011.06.22 @ 04:17:33

Time Off Btm: 2011.06.22 @ 06:50:33

TEST COMMENT: IFP - BOB 10 1/2 min
ISI - 1" blow back - died 12 min
FFP - BOB 11 min
FSI - 3 1/2" blow back- died 29 min



PRESSURE SUMMARY

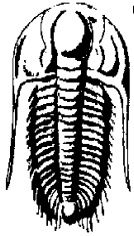
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.67	104.25	Initial Hydro-static
1	25.52	104.42	Open To Flow (1)
29	76.94	110.52	Shut-In(1)
75	1360.16	114.47	End Shut-In(1)
76	79.32	114.11	Open To Flow (2)
104	129.14	116.64	Shut-In(2)
151	1355.08	120.37	End Shut-In(2)
153	2105.50	118.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	OCM 15%O, 85%M	0.84
235.00	FREE OIL 95%O, 5%M	3.30
0.00	280' GIP	0.00

Gas Rates

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



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Showalter-Vandenburg Unit 1-17

PO Box 1019
Hays, Ks
67601

17-20-20 Pawnee, Ks

Job Ticket: 43412

DST#: 2

ATTN: Marc Downing

Test Start: 2011.06.22 @ 02:26:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
80.00	OCM 15%O, 85%M	0.840
235.00	FREE OIL 95%O, 5%M	3.296
0.00	280' GIP	0.000

Total Length: 315.00 ft

Total Volume: 4.136 bbl

Num Fluid Samples: 0

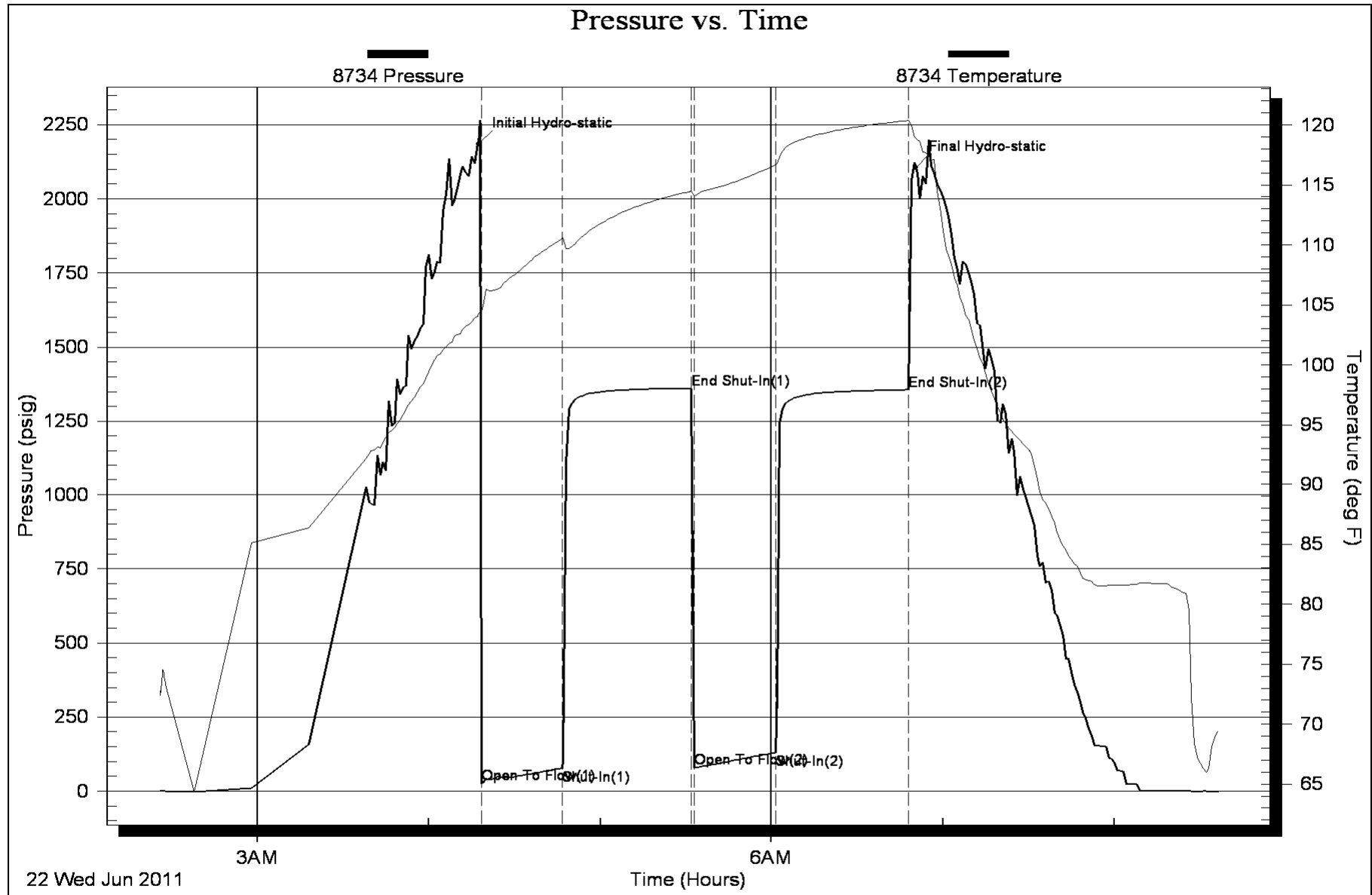
Num Gas Bombs: 0

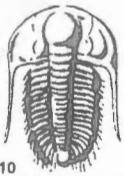
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

JUN 23 2011

NO. 43412

Well Name & No. Stouffer-Vanderburg Unit H-7 Test No. 2 Date 6-21-11
 Company DNOB Elevation 2228 KB 2221 GL
 Address _____
 Co. Rep / Geo. Marc Downing Rig DIXIE 4
 Location: Sec. 17 Twp. 20 Rge. 20 Co. Prima State K

Interval Tested 4349-4365 Zone Tested Osgo
 Anchor Length 16 Drill Pipe Run 4321 Mud Wt. 9.4
 Top Packer Depth 4344 Drill Collars Run 31 Vis 61
 Bottom Packer Depth 4349 Wt. Pipe Run — WL 10.4
 Total Depth 4365 Chlorides 5000 ppm System LCM _____

Blow Description IFP-BOB 10 1/2 min
ISI-1" blow back-died 12 min
FFP-BOB 11 min
FST-3 1/2" blow back-died 29 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>280</u>	<u>CaIP</u>				
<u>235</u>	<u>Free oil</u>		<u>95</u>		<u>5</u>
<u>80</u>	<u>OCM</u>		<u>15</u>		<u>85</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 315 BHT 120 Gravity 39 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic	<u>2185</u>	<input checked="" type="checkbox"/> Test	<u>1225'</u>	T-On Location	<u>2130</u>
(B) First Initial Flow	<u>26</u>	<input checked="" type="checkbox"/> Jars	<u>280'</u>	T-Started	<u>0226</u>
(C) First Final Flow	<u>77</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75'</u>	T-Open	<u>0419</u>
(D) Initial Shut-In	<u>1360</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>0649</u>
(E) Second Initial Flow	<u>79</u>	<input type="checkbox"/> Hourly Standby	<u>1hr 100'</u>	T-Out	<u>0836</u>
(F) Second Final Flow	<u>129</u>	<input checked="" type="checkbox"/> Mileage	<u>107RT 149.80</u>	Comments	
(G) Final Shut-In	<u>1355</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2106</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open	<u>30</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>45</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>8</u>
Final Shut-In	<u>45</u>	<input type="checkbox"/> Day Standby		Total	<u>1799.80</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1799.80</u>		

Approved By _____ Our Representative Brian Farbach

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