



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12
PO Box 8037
Wichita KS 67208

ATTN: Corey Baker

8-10s-24w Graham,KS

Herman-Dreiling Unit 'A' #1-8

Start Date: 2012.07.25 @ 23:37:00

End Date: 2012.07.26 @ 08:38:30

Job Ticket #: 49376 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.07.31 @ 13:40:21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

115 S. Belmont #12
PO Box 8037
Wichita KS 67208
ATTN: Corey Baker

Herman-Dreiling Unit 'A' #1-8

8-10s-24w Graham,KS

Job Ticket: 49376

DST#: 1

Test Start: 2012.07.25 @ 23:37:00

GENERAL INFORMATION:

Formation: **Lansing A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:08:30

Time Test Ended: 08:38:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Troy Leiker

Unit No: 42

Interval: 3772.00 ft (KB) To 3820.00 ft (KB) (TVD)

Reference Elevations: 2448.00 ft (KB)

Total Depth: 3820.00 ft (KB) (TVD)

2443.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press @ Run Depth: 128.22 psig @ 3773.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.25

End Date:

2012.07.26

Last Calib.: 2012.07.25

Start Time: 23:37:05

End Time:

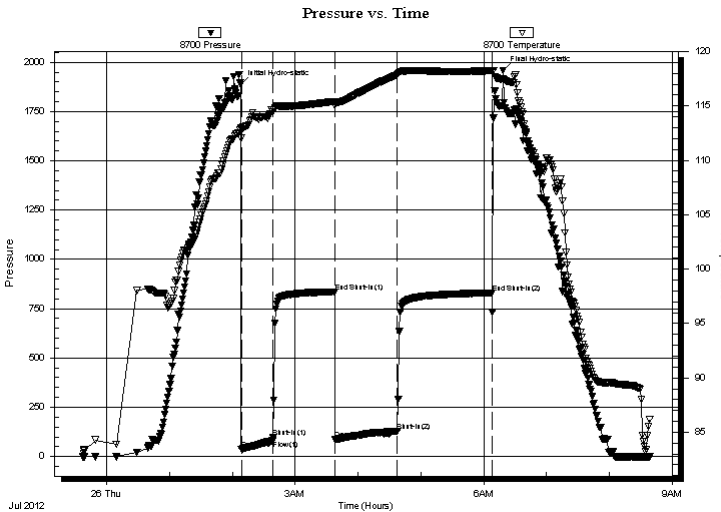
08:38:30

Time On Btm: 2012.07.26 @ 02:08:00

Time Off Btm: 2012.07.26 @ 06:18:30

TEST COMMENT: IF 30- Slow Building Blow to 2 1/2" in Bkt.
IS 60- No Blow Back
FF 60- Slow Building Blow to 2" in Bkt.
FS 90-No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1886.58	112.99	Initial Hydro-static
1	35.79	112.04	Open To Flow (1)
31	96.76	114.51	Shut-In(1)
90	835.81	115.43	End Shut-In(1)
90	86.79	115.01	Open To Flow (2)
150	128.22	117.86	Shut-In(2)
240	830.67	118.24	End Shut-In(2)
251	1958.57	117.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	muddy w ater 85% w ater, 15% mud	0.91
14.00	mud 100%	0.20

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

Herman-Dreiling Unit 'A' #1-8

115 S. Belmont #12
PO Box 8037
Wichita KS 67208
ATTN: Corey Baker

8-10s-24w Graham,KS

Job Ticket: 49376 **DST#: 1**

Test Start: 2012.07.25 @ 23:37:00

Tool Information

Drill Pipe:	Length: 3569.00 ft	Diameter: 3.80 inches	Volume: 50.06 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 50.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3772.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3749.00	
Shut In Tool	5.00			3754.00	
Hydraulic tool	5.00			3759.00	
Safety Joint	3.00			3762.00	
Packer	5.00			3767.00	24.00 Bottom Of Top Packer
Packer	5.00			3772.00	
Stubb	1.00			3773.00	
Recorder	0.00	6625	Inside	3773.00	
Recorder	0.00	8700	Outside	3773.00	
Perforations	1.00			3774.00	
change Over Sub	1.00			3775.00	
drill Pipe	32.00			3807.00	
Change Over Sub	1.00			3808.00	
perforations	9.00			3817.00	
Bullnose	3.00			3820.00	48.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

Herman-Dreiling Unit 'A' #1-8

115 S. Belmont #12
PO Box 8037
Wichita KS 67208
ATTN: Corey Baker

8-10s-24w Graham,KS

Job Ticket: 49376 **DST#: 1**

Test Start: 2012.07.25 @ 23:37:00

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:	55000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.36 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

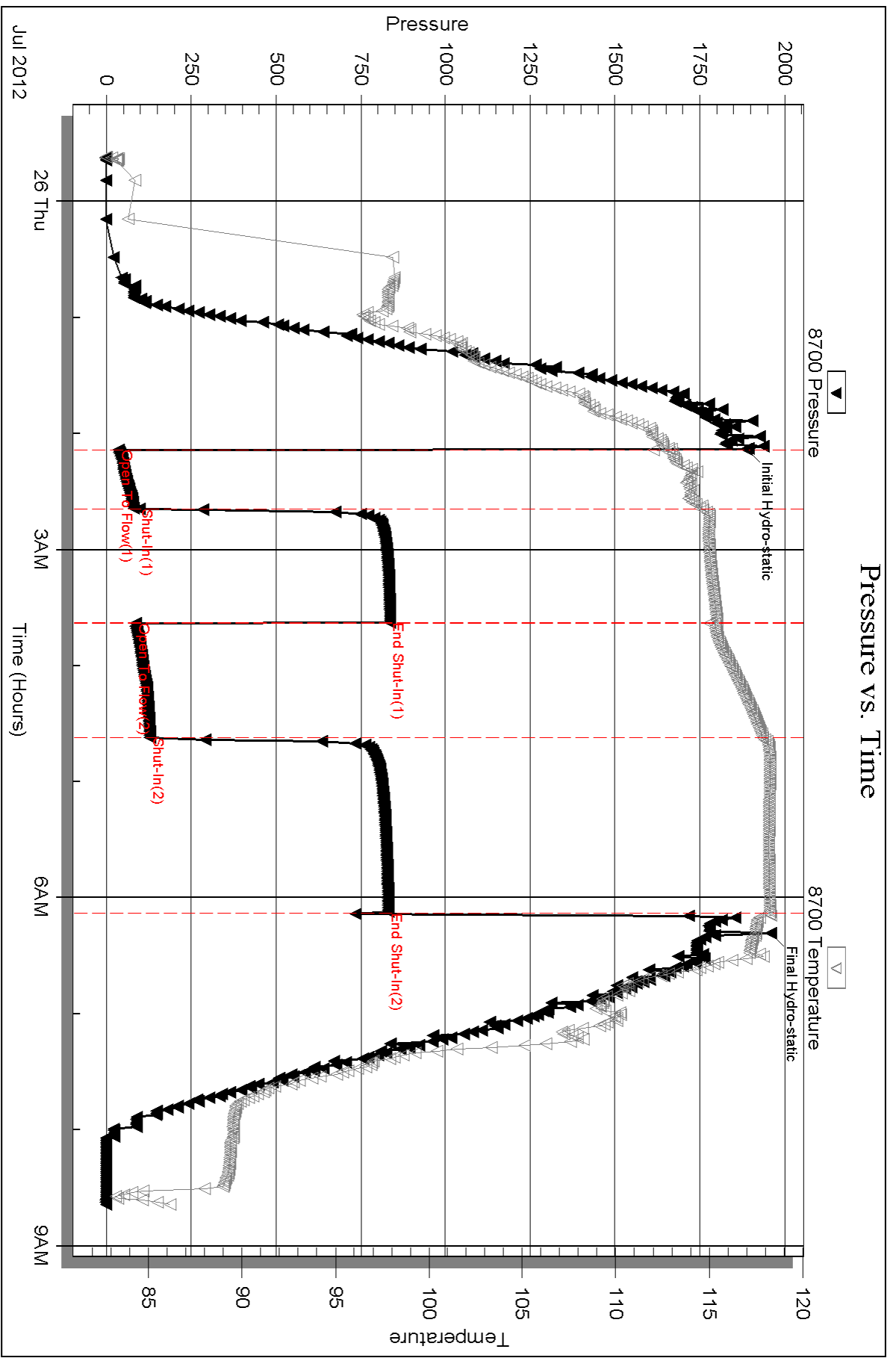
Length ft	Description	Volume bbl
186.00	muddy w ater 85% w ater, 15% mud	0.915
14.00	mud 100%	0.196

Total Length: 200.00 ft Total Volume: 1.111 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Rw .083 @90 =55000



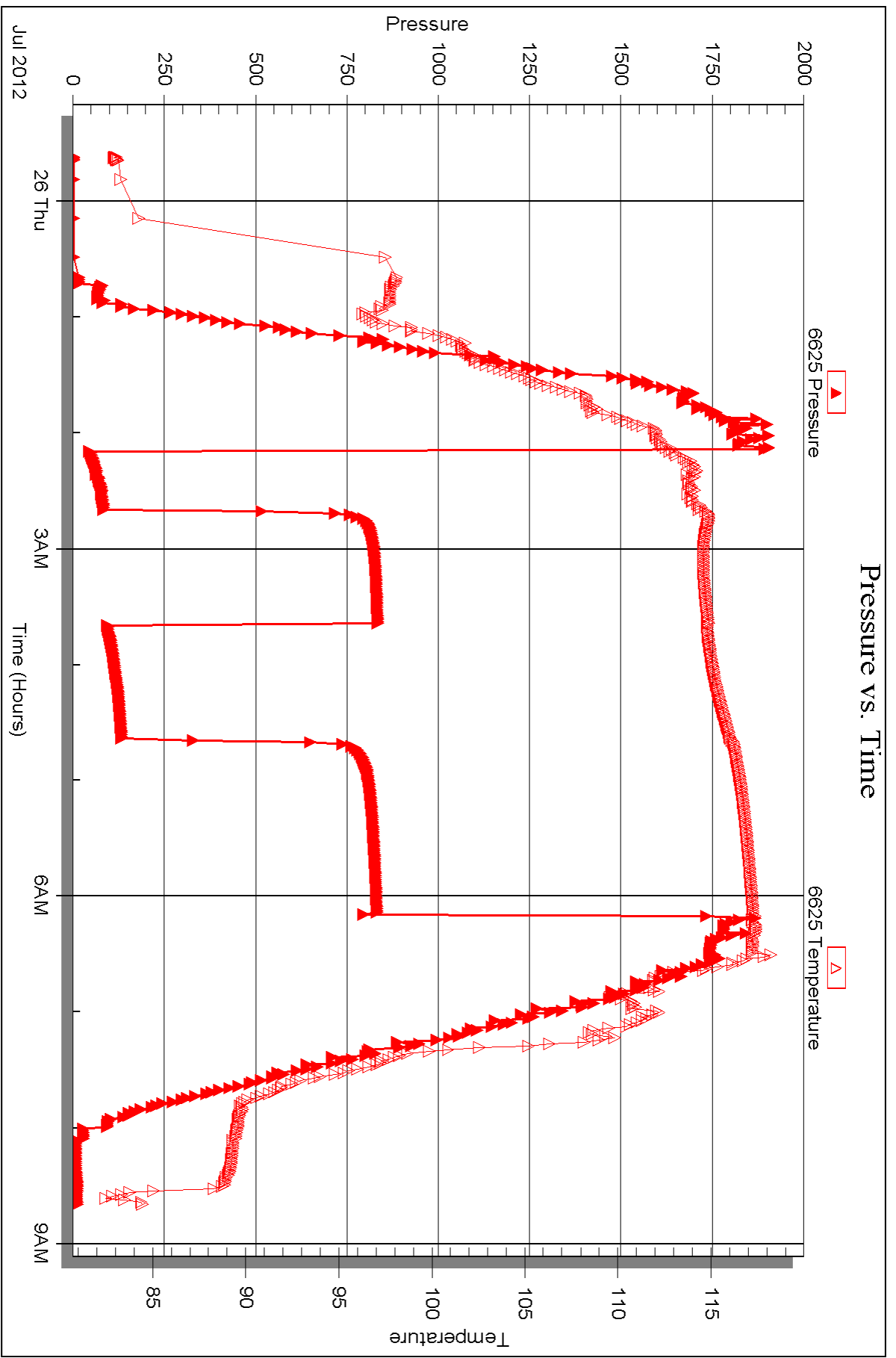
Serial #: 6625

Inside

Cobalt Energy LLC

8-10s-24w Graham,KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12
PO Box 8037
Wichita KS 67208

ATTN: Corey Baker

8-10s-24w Graham,KS

Herman-Dreiling Unit 'A' #1-8

Start Date: 2012.07.26 @ 16:55:00

End Date: 2012.07.26 @ 23:20:00

Job Ticket #: 49377 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.07.31 @ 13:39:09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

115 S. Belmont #12
PO Box 8037
Wichita KS 67208
ATTN: Corey Baker

Herman-Dreiling Unit 'A' #1-8

8-10s-24w Graham,KS

Job Ticket: 49377

DST#: 2

Test Start: 2012.07.26 @ 16:55:00

GENERAL INFORMATION:

Formation: **Lansing D-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:58:00

Time Test Ended: 23:20:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: 42

Interval: 3820.00 ft (KB) To 3870.00 ft (KB) (TVD)

Reference Elevations: 2448.00 ft (KB)

Total Depth: 3870.00 ft (KB) (TVD)

2443.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6625 Inside

Press @ Run Depth: 155.72 psig @ 3821.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.26

End Date:

2012.07.26

Last Calib.:

2012.07.27

Start Time: 16:55:05

End Time:

23:19:59

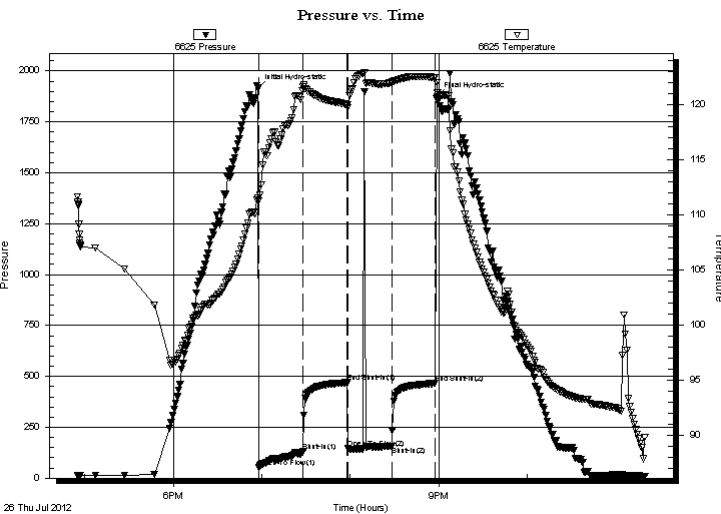
Time On Btm:

2012.07.26 @ 18:57:30

Time Off Btm:

2012.07.26 @ 20:59:00

TEST COMMENT: IF:30- No Blow
IS: 30 No Return
FF: 30 No Blow , Flushed Tool no blow
FS: 30 No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.26	111.51	Initial Hydro-static
1	54.40	111.28	Open To Flow (1)
31	133.21	121.62	Shut-In(1)
61	468.99	119.93	End Shut-In(1)
61	144.33	119.68	Open To Flow (2)
91	155.72	121.97	Shut-In(2)
120	465.08	122.42	End Shut-In(2)
122	1872.72	121.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	Slightly Muddy Water 85%w 15% m	0.91
62.00	Muddy Water 75%w 25%m	0.87
2.00	Watery Mud 30%w 70%m	0.03

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

Herman-Dreiling Unit 'A' #1-8

115 S. Belmont #12
PO Box 8037
Wichita KS 67208
ATTN: Corey Baker

8-10s-24w Graham,KS

Job Ticket: 49377 **DST#: 2**

Test Start: 2012.07.26 @ 16:55:00

Tool Information

Drill Pipe:	Length: 3633.00 ft	Diameter: 3.80 inches	Volume: 50.96 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 51.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3820.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: had loose connection on hose

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3797.00	
Shut In Tool	5.00			3802.00	
Hydraulic tool	5.00			3807.00	
Safety Joint	3.00			3810.00	
Packer	5.00			3815.00	24.00 Bottom Of Top Packer
Packer	5.00			3820.00	
Stubb	1.00			3821.00	
Recorder	0.00	6625	Inside	3821.00	
Recorder	0.00	8700	Outside	3821.00	
Perforations	2.00			3823.00	
change Over Sub	1.00			3824.00	
drill Pipe	32.00			3856.00	
Change Over Sub	1.00			3857.00	
perforations	10.00			3867.00	
Bullnose	3.00			3870.00	50.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

Herman-Dreiling Unit 'A' #1-8

115 S. Belmont #12
PO Box 8037
Wichita KS 67208
ATTN: Corey Baker

8-10s-24w Graham,KS

Job Ticket: 49377 **DST#: 2**

Test Start: 2012.07.26 @ 16:55:00

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:

98000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	Slightly Muddy Water 85%w 15% m	0.915
62.00	Muddy Water 75%w 25% m	0.870
2.00	Watery Mud 30%w 70% m	0.028

Total Length: 250.00 ft Total Volume: 1.813 bbl

Num Fluid Samples: 0

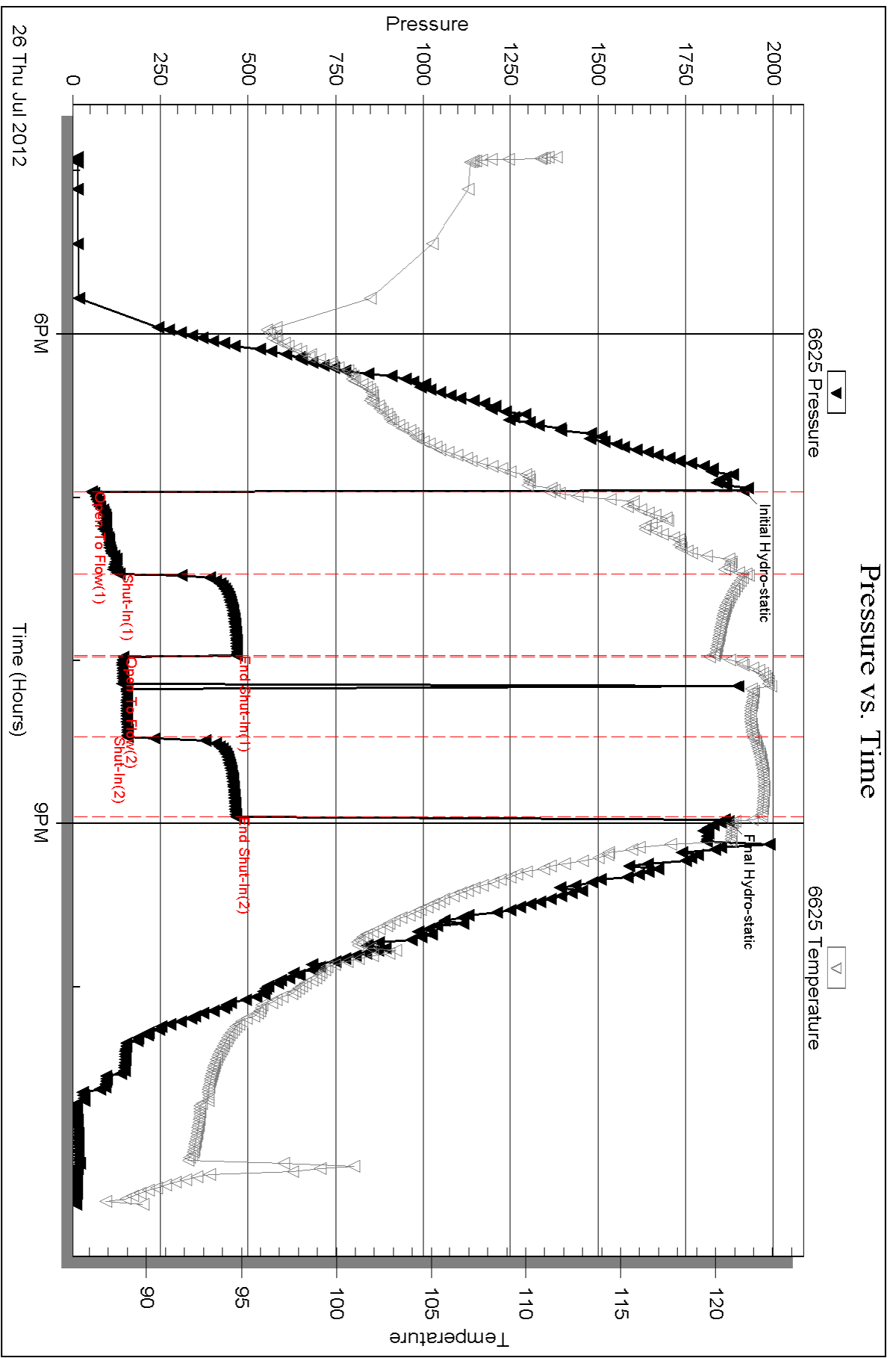
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .086 @ 67 =98000

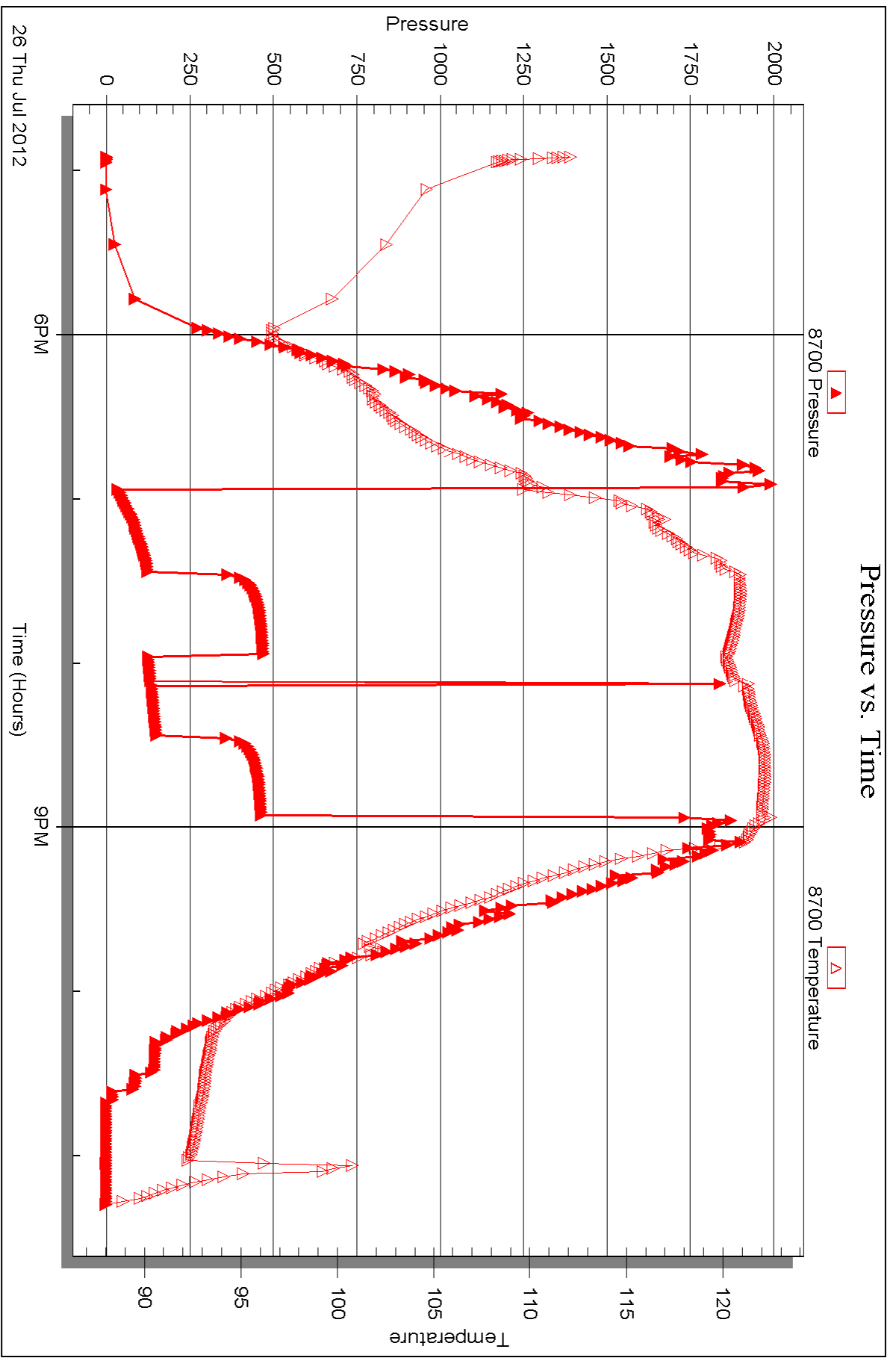


Serial #: 8700

Outside Cobalt Energy LLC

8-10s-24w Graham,KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12
PO Box 8037
Wichita KS 67208

ATTN: Corey Baker

8-10s-24w Graham,KS

Herman-Dreiling Unit 'A' #1-8

Start Date: 2012.07.27 @ 22:05:05

End Date: 2012.07.28 @ 04:23:29

Job Ticket #: 49378 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.07.31 @ 13:38:11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

115 S. Belmont #12
PO Box 8037
Wichita KS 67208
ATTN: Corey Baker

Herman-Dreiling Unit 'A' #1-8

8-10s-24w Graham,KS

Job Ticket: 49378 **DST#: 3**

Test Start: 2012.07.27 @ 22:05:05

GENERAL INFORMATION:

Formation: **Lansing I-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:19:00

Time Test Ended: 04:23:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: 42

Interval: 3929.00 ft (KB) To 4001.00 ft (KB) (TVD)

Reference Elevations: 2448.00 ft (KB)

Total Depth: 4001.00 ft (KB) (TVD)

2443.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press @ Run Depth: 53.09 psig @ 3930.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.27 End Date: 2012.07.28

Last Calib.: 2012.07.29

Start Time: 22:05:05 End Time: 04:23:29

Time On Btm: 2012.07.28 @ 00:18:30

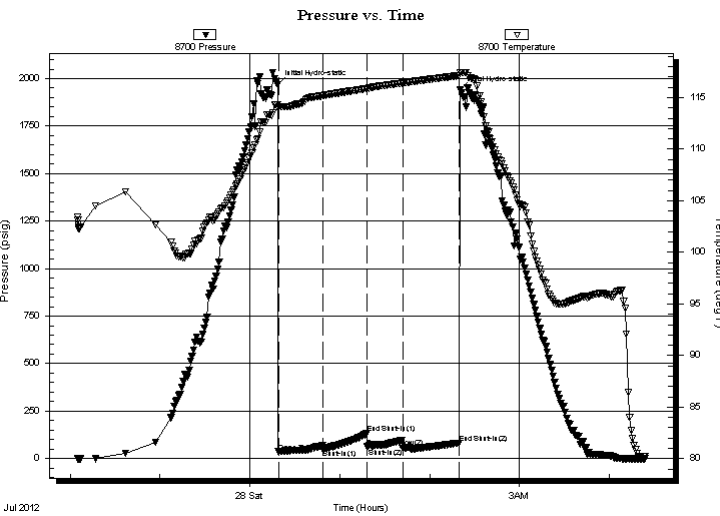
Time Off Btm: 2012.07.28 @ 02:20:30

TEST COMMENT: IF: 30 Weak Blow , Died in 25 min.

IS: 30 No Blow

FF: 30 No Blow Back

FS: 30 No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.49	114.31	Initial Hydro-static
1	35.65	113.98	Open To Flow (1)
31	49.24	115.17	Shut-In(1)
60	132.23	115.88	End Shut-In(1)
60	61.61	115.86	Open To Flow (2)
84	53.09	116.40	Shut-In(2)
121	80.27	117.13	End Shut-In(2)
122	1939.29	117.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	VSOCM 5%O 95%M	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

Herman-Dreiling Unit 'A' #1-8

115 S. Belmont #12
PO Box 8037
Wichita KS 67208
ATTN: Corey Baker

8-10s-24w Graham,KS

Job Ticket: 49378 **DST#: 3**

Test Start: 2012.07.27 @ 22:05:05

Tool Information

Drill Pipe:	Length: 3727.00 ft	Diameter: 3.80 inches	Volume: 52.28 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 53.19 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3929.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	72.00 ft				
Tool Length:	96.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3906.00	
Shut In Tool	5.00			3911.00	
Hydraulic tool	5.00			3916.00	
Safety Joint	3.00			3919.00	
Packer	5.00			3924.00	24.00 Bottom Of Top Packer
Packer	5.00			3929.00	
Stubb	1.00			3930.00	
Recorder	0.00	6625	Inside	3930.00	
Recorder	0.00	8700	Outside	3930.00	
Perforations	5.00			3935.00	
change Over Sub	1.00			3936.00	
drill Pipe	32.00			3968.00	
Change Over Sub	1.00			3969.00	
perforations	29.00			3998.00	
Bullnose	3.00			4001.00	72.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

Herman-Dreiling Unit 'A' #1-8

115 S. Belmont #12
PO Box 8037
Wichita KS 67208
ATTN: Corey Baker

8-10s-24w Graham,KS

Job Ticket: 49378 **DST#: 3**

Test Start: 2012.07.27 @ 22:05:05

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	VSOCM 5%O 95%M	0.049

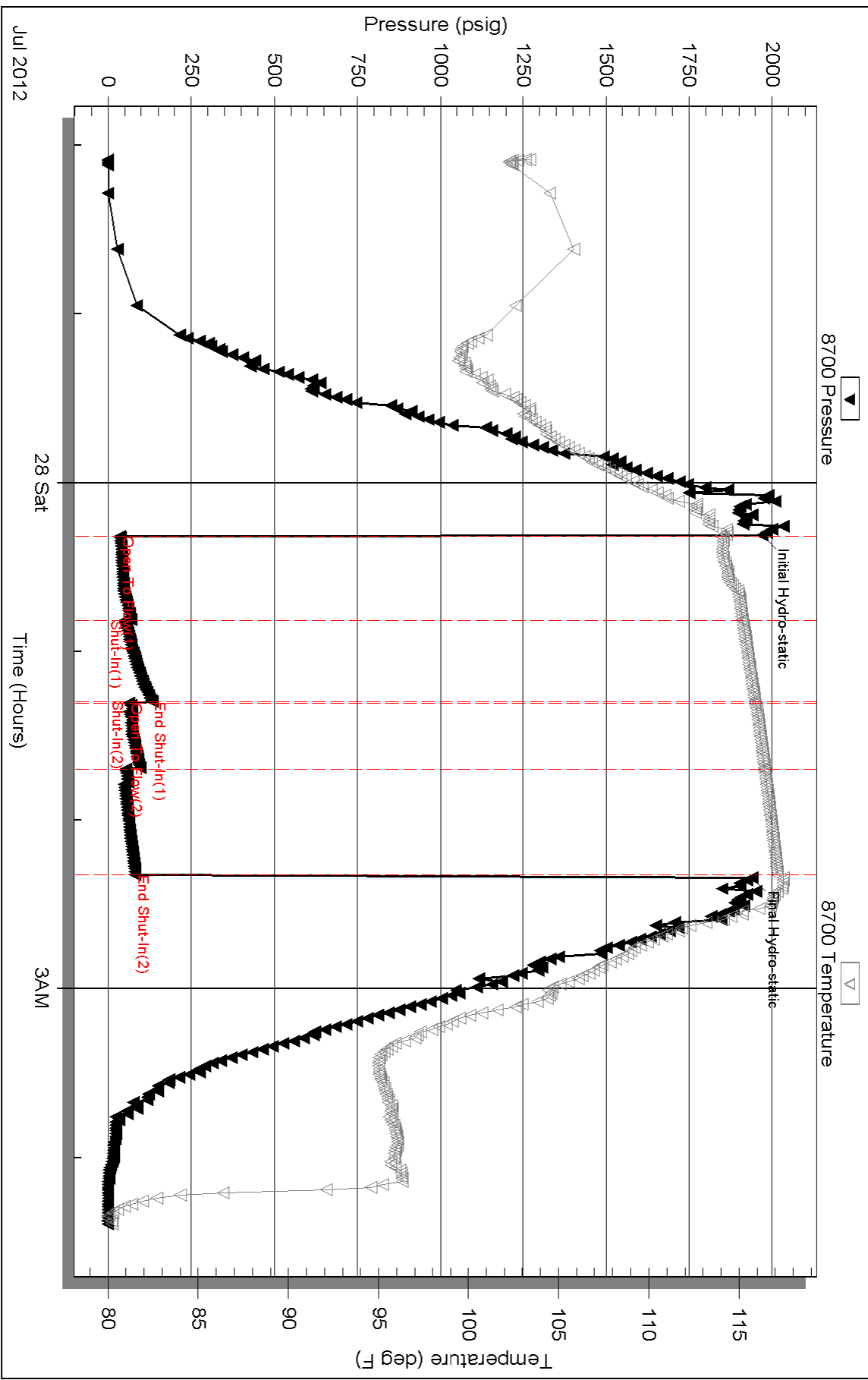
Total Length: 10.00 ft Total Volume: 0.049 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49376

4/10

Well Name & No. Herman-Drilling Unit A #1-8 Test No. 1 Date 7-25-12
 Company Cobalt Energy LLC Elevation 2448 KB 2443 GL
 Address 115 S. Belmont #12 P.O. Box 8037 Wichita, KS. 67208
 Co. Rep / Geo. Nicholas D. Hess, Corey Baker Rig Murfin Drilg. #8
 Location: Sec. 8 Twp. 10 S Rge. 24 W Co. Graham State KS.

Interval Tested 3772 - 3820 Zone Tested Lancing KC A-C
 Anchor Length 48' Drill Pipe Run 3569 Mud Wt. 8.9
 Top Packer Depth 3767 Drill Collars Run ~~3569~~ 186 Vis 50
 Bottom Packer Depth 3772 Wt. Pipe Run 0 WL 6.4
 Total Depth 3820 Chlorides 1,000 ppm System LCM 0
 Blow Description 1st Flow - Slow building blow to 2 1/2" IN BKT.
Final Flow - Slow building blow to 2" IN BKT.

Rec	Feet of	%gas	%oil	%water	%mud
<u>186</u>	<u>muddy water</u>			<u>85</u>	<u>35</u>
<u>14</u>	<u>mud</u>			<u>100</u>	<u>100</u>

Rec Total 200 BHT 118° Gravity API RW .083 @ 90° F Chlorides ppm

(A) Initial Hydrostatic <u>1886</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>8:30 PM</u>
(B) First Initial Flow <u>35</u>	<input type="checkbox"/> Jars	T-Started <u>11:37 PM</u>
(C) First Final Flow <u>96</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2:10 AM</u>
(D) Initial Shut-In <u>835</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>6:10 AM</u>
(E) Second Initial Flow <u>86</u>	<input type="checkbox"/> Hourly Standby	T-Out
(F) Second Final Flow <u>128</u>	<input checked="" type="checkbox"/> Mileage <u>124</u> <u>192 R20 - Hays</u>	Comments
(G) Final Shut-In <u>830</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1958</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>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1417.20</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1417.20</u>	

Approved By _____ Our Representative _____

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

Test Ticket

NO. 49377

4/10

Well Name & No. Herman - Drilling Unit A #1-8 Test No. 2 Date 7-25-12
 Company Cobalt Energy LLC Elevation 2448 KB 2443 GL
 Address 115 S. Belmont #12 P.O. Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Nicholas D. Hess, Corey Baker Rig Murfin Rig #8
 Location: Sec. 8 Twp. 10 S Rge. 24 W Co. Graham State KS.

Interval Tested 3820 - 3870 Zone Tested Lansing D, E, F
 Anchor Length 50' Drill Pipe Run 3633 Mud Wt. 9.1
 Top Packer Depth 3815 Drill Collars Run 186 Vis 59
 Bottom Packer Depth 3820 Wt. Pipe Run 0 WL 6.0
 Total Depth 3870 Chlorides 1100 ppm System LCM 0
 Blow Description 1st Flow - NO Blow
2nd Flow - NO Blow, waited 10 min, flush tool, got surge, no help.

Rec	Feet of	%gas	%oil	%water	%mud
<u>186</u>	<u>Slightly muddy water</u>		<u>35</u>	<u>85</u>	
<u>62</u>	<u>muddy water</u>		<u>75</u>	<u>25</u>	
<u>2</u>	<u>Watery mud 70% m 30% w</u>		<u>30</u>	<u>70</u>	

Rec Total 250' BHT _____ Gravity _____ API RW .086 @ 67 °F Chlorides 98000 ppm

(A) Initial Hydrostatic 1915 Test 1150 T-On Location 4:40 pm
 (B) First Initial Flow 54 Jars _____ T-Started 4:55 pm
 (C) First Final Flow 133 Safety Joint 75 T-Open 7:00 pm
 (D) Initial Shut-In 468 Circ Sub _____ T-Pulled 9:00 pm
 (E) Second Initial Flow 144 Hourly Standby _____ T-Out 11:23 pm
 (F) Second Final Flow 155 Mileage 124 192720 Hays Comments _____
 (G) Final Shut-In 465 Sampler _____
 (H) Final Hydrostatic 1872 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1417.20
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1417.20

Approved By _____ Our Representative Troy Leiker

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

Test Ticket

NO. 49378

4/10

Well Name & No. Herman - Drilling unit A #1-8 Test No. 3 Date 7-27-12
 Company Cobalt Energy LLC Elevation 2448 KB 2443 GL
 Address 115 S. Belmont #12 P.O. Box 8037
 Co. Rep / Geo. Nicholas D. Hess, Corey Baker Rig Murfin Drly #8
 Location: Sec. 8 Twp. 10 S Rge. 24 W Co. Graham State KS.

Interval Tested 3929 - 4001 Zone Tested Lansing I J K
 Anchor Length 72' Drill Pipe Run 3727 Mud Wt. 9.0
 Top Packer Depth 3924 Drill Collars Run 186 Vis 56
 Bottom Packer Depth 3929 Wt. Pipe Run 0 WL 6.2
 Total Depth ~~3929~~ 4001 Chlorides 1200 ppm System LCM 1
 Blow Description 1st Flow - very weak Blow on top of BKT, died in 25 min.
2nd Flow - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>V50cm</u>	<u>5</u>		<u>95</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 10 BHT 103° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1969 Test 1250 T-On Location 2:40 pm
 (B) First Initial Flow 35 Jars _____ T-Started 3:45 pm
 (C) First Final Flow 49 Safety Joint 75 T-Open 6:00 pm
 (D) Initial Shut-In 132 Circ Sub _____ T-Pulled 8:00 pm
 (E) Second Initial Flow 61 Hourly Standby _____ T-Out 10:05 pm
 (F) Second Final Flow 53 Mileage 124 192.20 - Hays Comments _____
 (G) Final Shut-In 80 Sampler _____
 (H) Final Hydrostatic 1939 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total _____
 Day Standby _____ Total 1517.20
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1517.20

Approved By _____ Our Representative Troy Leiker

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