



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1089022
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1089022

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 03, 2012

Nicholas D. Hess
Cobalt Energy LLC
115 S. BELMONT #12
PO BOX 8037
WICHITA, KS 67208

Re: ACO1
API 15-065-23841-00-00
Herman-Dreiling Unit 'A' 1-8
NE/4 Sec.08-10S-24W
Graham County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Nicholas D. Hess



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:

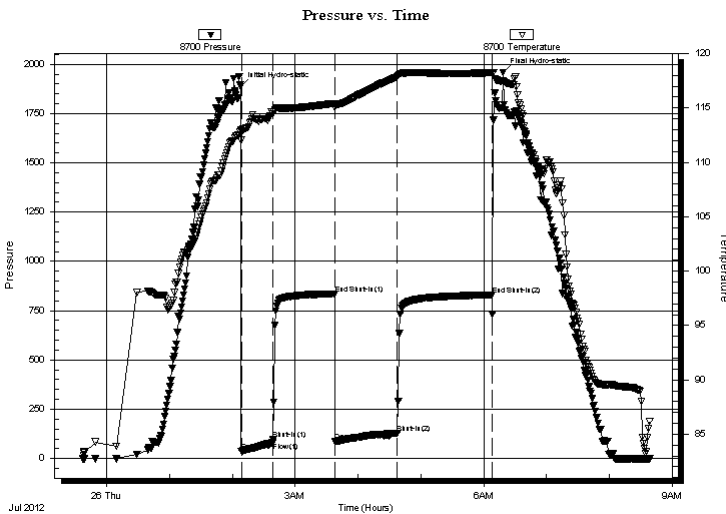
08:38:30

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

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

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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

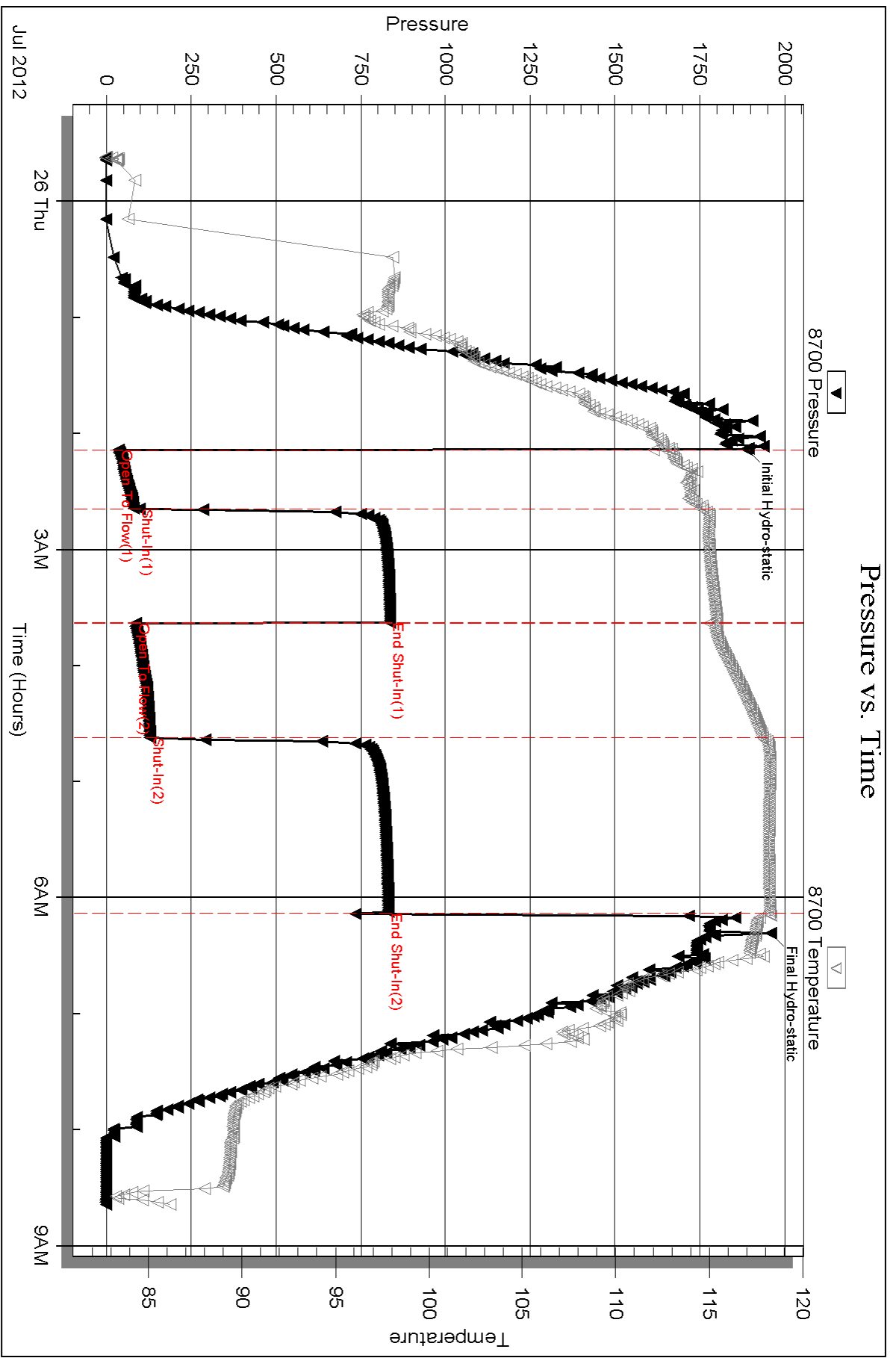
Length ft	Description	Volume bbl
186.00	muddy w ater 85% w ater, 15% mud	0.915
14.00	mud 100%	0.196

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



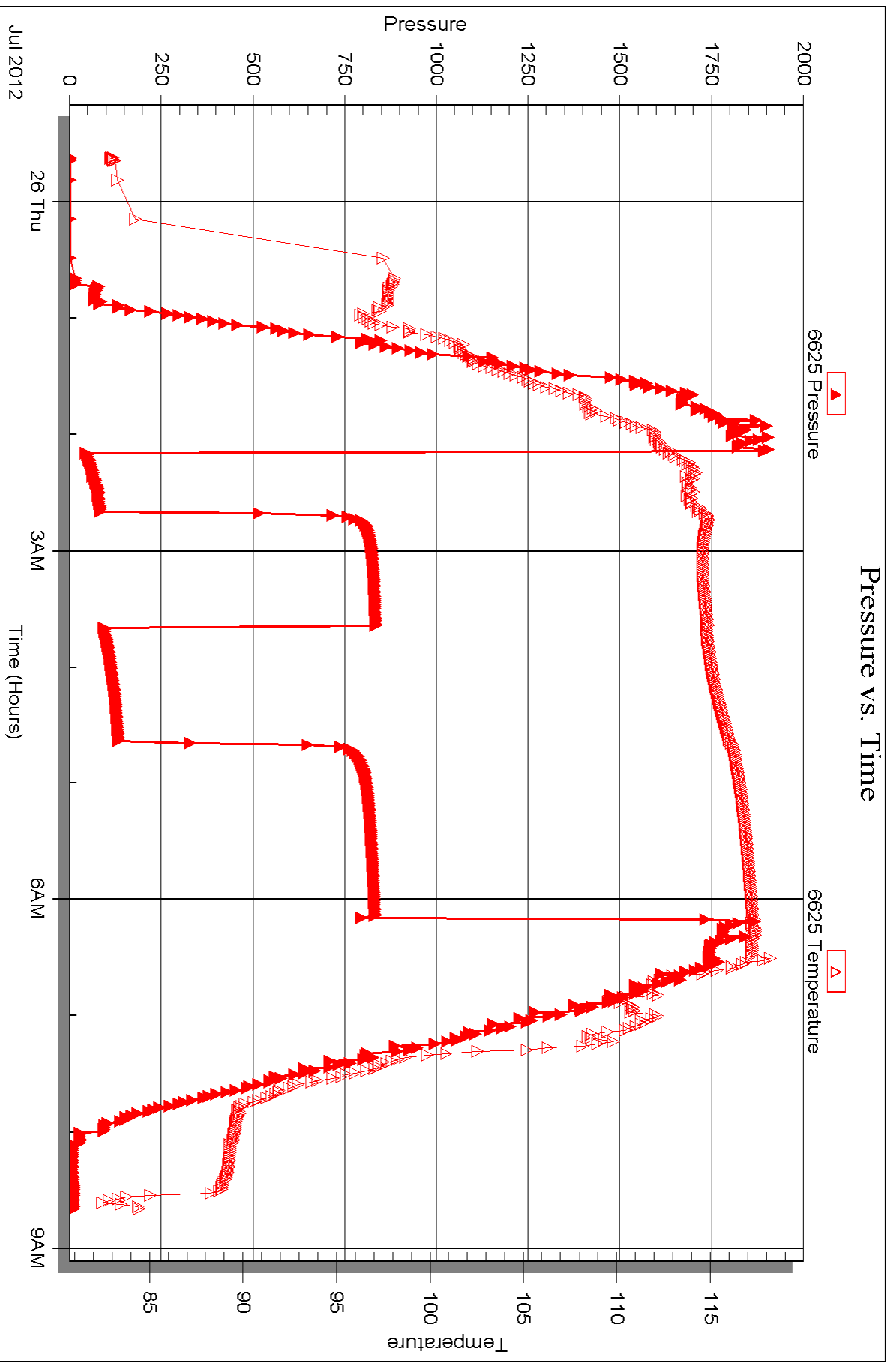
Serial #: 6625

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:

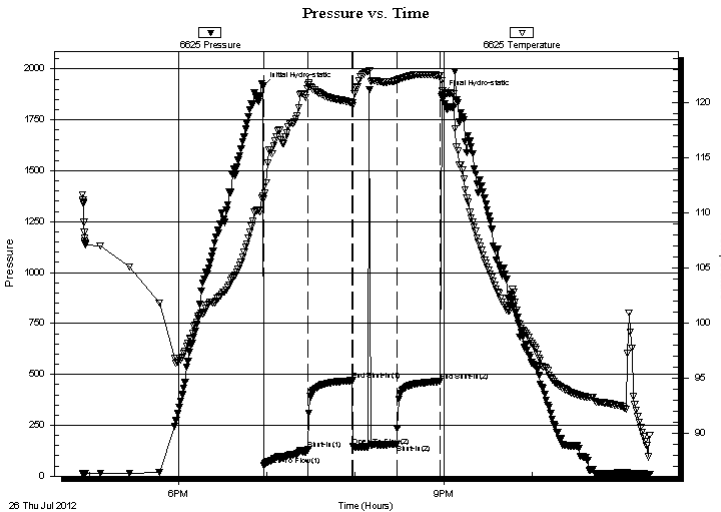
2012.07.26 @ 18:57:30

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

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

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

8-10s-24w Graham,KS

PO Box 8037

Job Ticket: 49377

DST#: 2

Wichita KS 67208

Test Start: 2012.07.26 @ 16:55:00

ATTN: Corey Baker

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 bbl
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

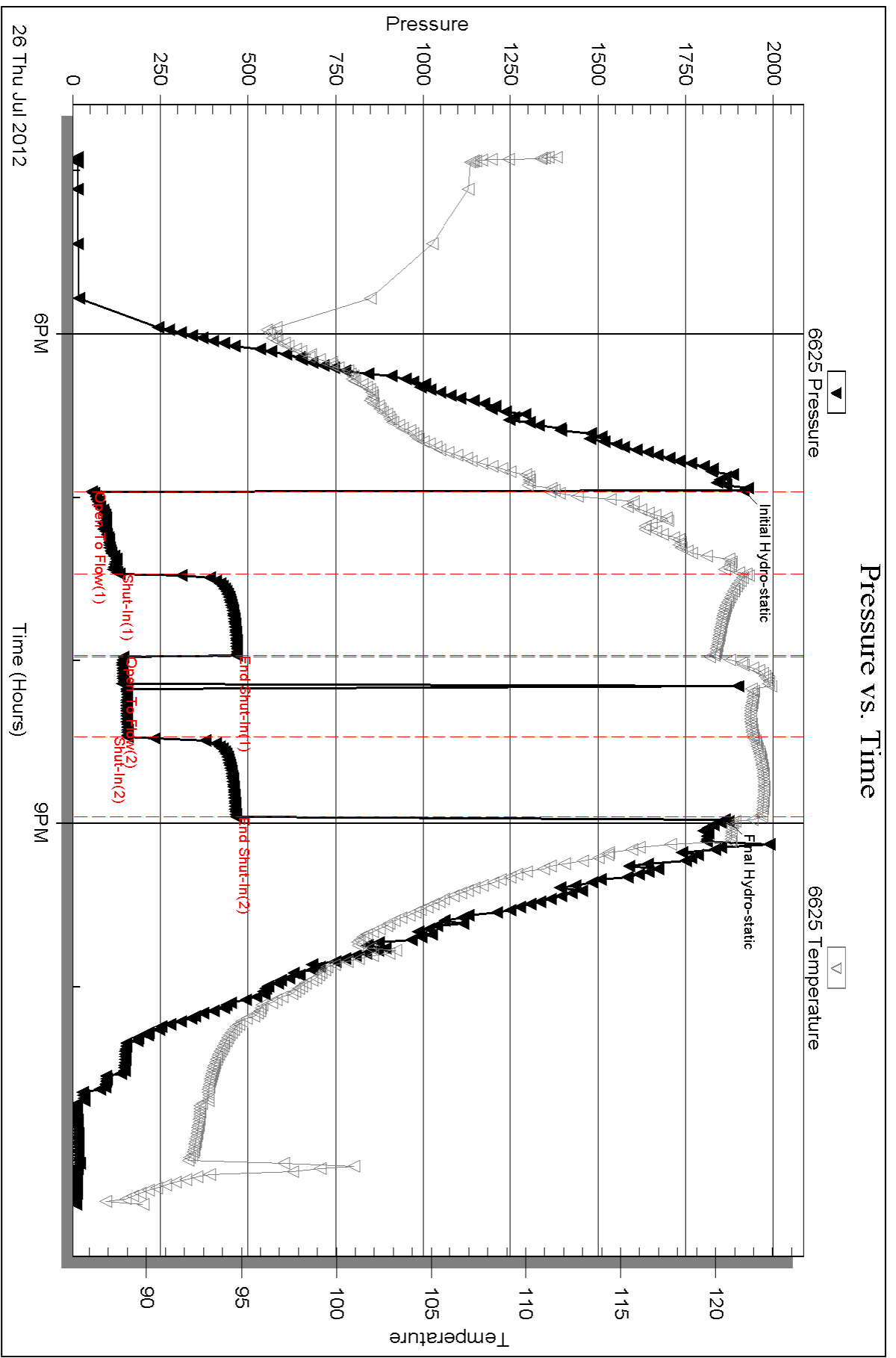
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .086 @ 67 =98000

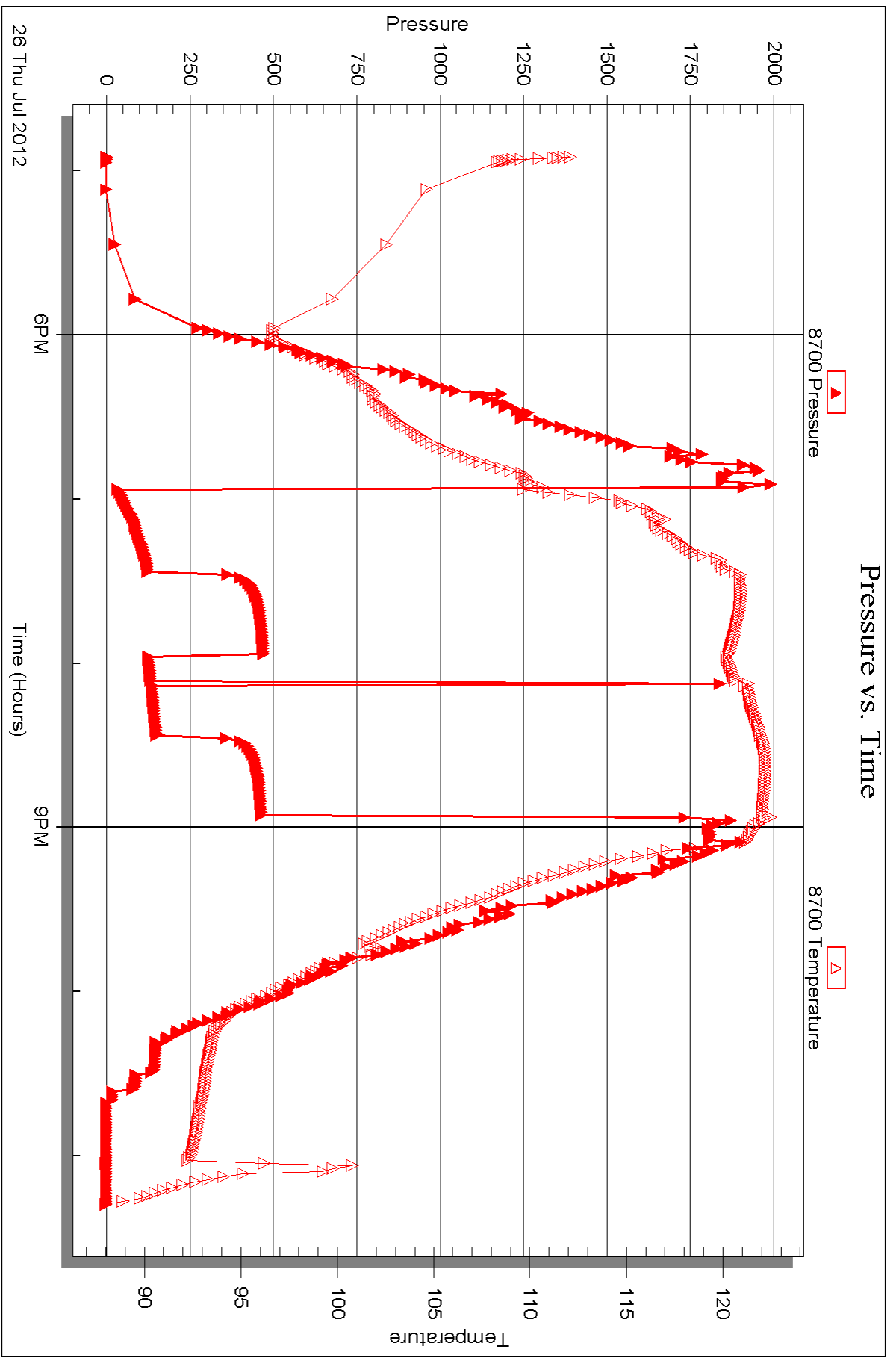


Serial #: 8700

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)

Total Depth: 4001.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2448.00 ft (KB)

2443.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

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

Start Date: 2012.07.27

End Date:

2012.07.28

Start Time: 22:05:05

End Time:

04:23:29

Capacity: 8000.00 psig

Last Calib.: 2012.07.29

Time On Btm: 2012.07.28 @ 00:18:30

Time Off Btm: 2012.07.28 @ 02:20:30

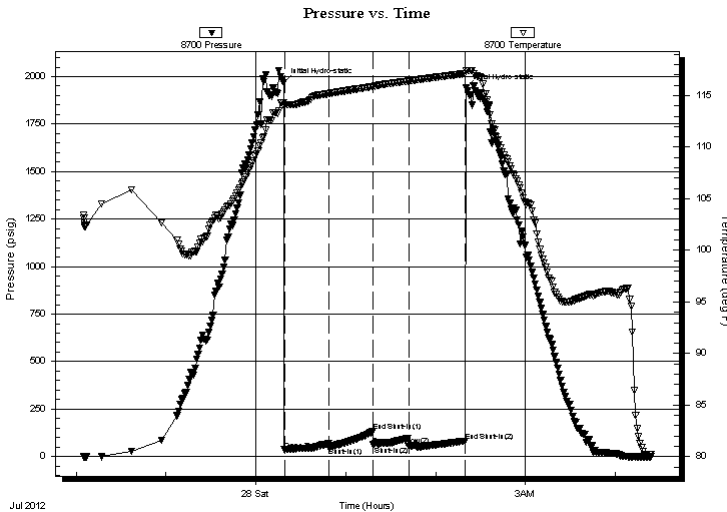
TEST COMMENT: IF: 30 Weak Blow , Died in 25 min.

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

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

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

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

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

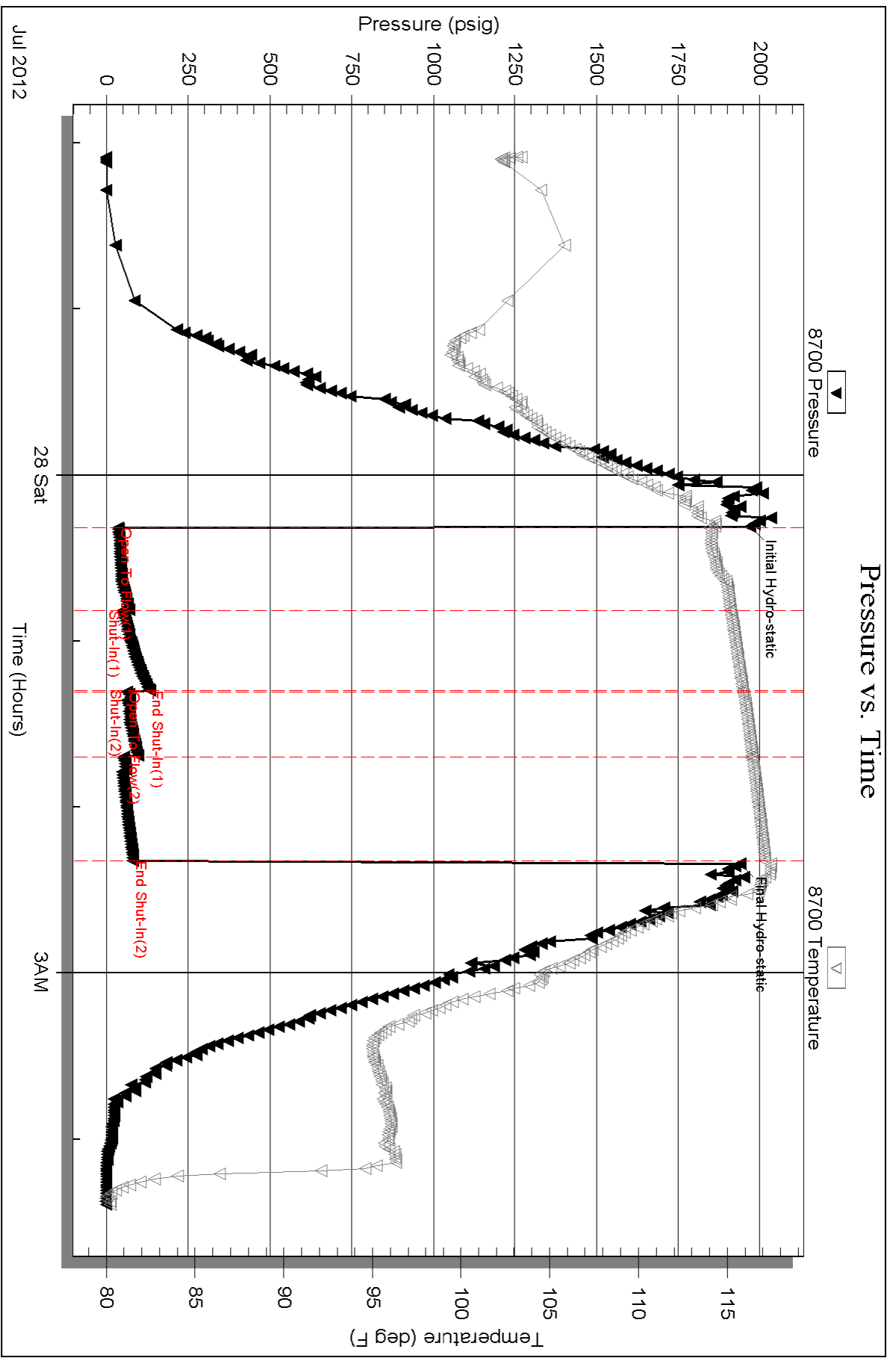
Length ft	Description	Volume bbl
10.00	VSOCM 5%O 95%M	0.049

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:





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 Drig. #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 ~~186~~ 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>192R207 - 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

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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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ALLIED OIL & GAS SERVICES, LLC 056248

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT

Oakley

DATE <u>7-21-12</u>	SEC. <u>8</u>	TWP. <u>10</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>8:30 PM</u>	JOB FINISH <u>9:00 PM</u>
LEASE <u>Harmon Drilling</u>	WELL # <u>with 1-8</u>	LOCATION <u>St Peter N To RD H-E4-</u>		COUNTY <u>Graham</u>	STATE <u>Ks.</u>		
OLD OR <u>NEW</u> (Circle one)		<u>25-31wstW into</u>				2-01 7.55	

CONTRACTOR <u>Murfin #8</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>220</u>
CASING SIZE <u>8 7/8</u>	DEPTH <u>219</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>13.25</u>	

CEMENT
AMOUNT ORDERED 165 SKS Com 3% CC
2% Gel

COMMON	<u>165 SKS @ \$16.25</u>	<u>\$2681.25</u>
POZMIX		
GEL	<u>3 SKS @ \$21.25</u>	<u>\$63.75</u>
CHLORIDE	<u>6 SKS @ \$58.20</u>	<u>\$349.20</u>
ASC		

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Darren Racette 1</u>
# <u>428-281</u>	HELPER <u>Tyler Flipse 2</u>
BULK TRUCK	
# <u>396-306</u>	DRIVER <u>Chris Helpingstone 3</u>
BULK TRUCK	
#	DRIVER

HANDLING	<u>178.23 x</u>	<u>\$2.10</u>	<u>\$376.38</u>
MILEAGE	<u>8.17 x 65 x</u>	<u>\$2.35</u>	<u>\$1247.75</u>
		TOTAL	<u>\$4718.54</u>

REMARKS:

mix SKs Cement
Displace with water
Cement Dig Circulate

Thank You.

CHARGE TO: Colbalt Energy

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	<u>\$1125.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>65</u>	<u>\$7.00</u> <u>\$455.00</u>
MANIFOLD <u>Swedge</u>	<u>\$4.00</u> <u>\$200.00</u>
<u>20 Mileage</u>	<u>\$4.00</u> <u>\$200.00</u>
TOTAL <u>\$2040.00</u>	

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Rodney T. Arr

SIGNATURE Rodney T. Arr

SALES TAX (If Any)	<u>233.61</u>
TOTAL CHARGES	<u>6,758.54</u>
DISCOUNT <u>20</u>	<u>1351.70</u> IF PAID IN 30 DAYS



COBALT ENERGY LLC
GEOLOGIST'S REPORT
DRILL TIME & SAMPLE LOG

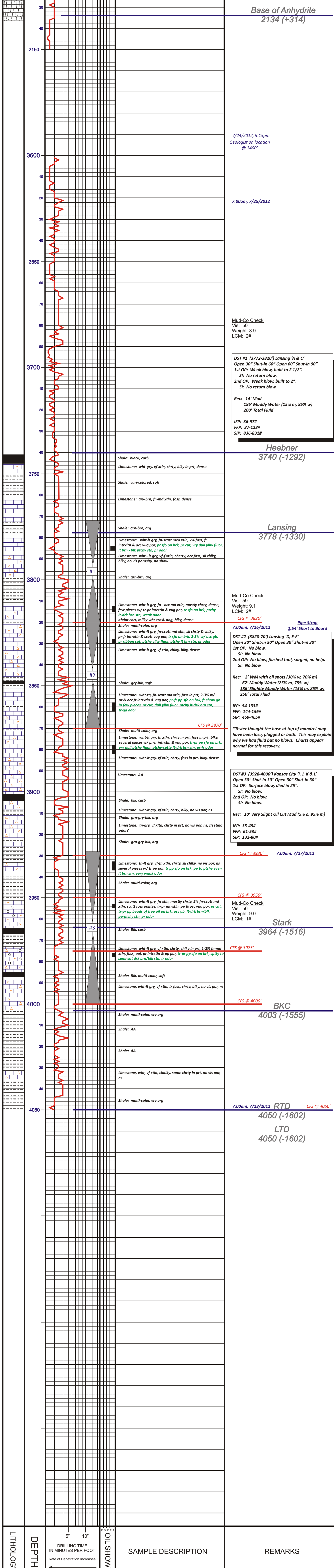
COMPANY	COBALT ENERGY LLC	ELEVATIONS	KB 2448'
LEASE	Herman-Drilling Unit 'A' #1-8	FIELD	DF
LOCATION	1650' FNL & 1662' FEL	SEC.	8 TWPSP 10S RGE 24W
COUNTY	Graham STATE KS	CONTRACTOR	Martin Drilling, Rig #8
SPUD	7/21/12 COMP 07/28/12	RTD	4050' TYPE MUD Chemical
MUD UP	3400'	SAMPLES SAVED FROM	3600' TO RTD
DRILLING TIME KEPT FROM	3600' TO RTD	SAMPLES EXAMINED FROM	3600' TO RTD
GEOLOGICAL SUPERVISION FROM 3400' to RTD GEOLOGIST ON WELL: Corey N. Baker Pioneer Wellbore			
FORMATION TOPS		ELECTRIC LOG	SAMPLE
Anhydrite	2101 (+347)		2100 (+348)
Base of Anhydrite	2134 (+314)		2135 (+313)
Heebner	3740 (-1292)		3741 (-1293)
Lansing	3778 (-1330)		3780 (-1332)
Stark	3964 (-1516)		3971 (-1523)
BKC	4003 (-1555)		4017 (-1569)
RTD	4050 (-1602)		4050 (-1602)
LTD			

REMARKS *Based on negative drill stem test results, structure and log review, it was decided by all parties that the Herman-Drilling Unit 'A' #1-8 be plugged and abandoned as a dry hole.*

Drill Stem testing done by Troy Leiker of Trilobite Testing. Respectfully Submitted,
Corey Baker
 Petroleum Geologist

API #15-065-23841-00-00

LEGEND	
	Anhydrite
	Sandstone
	Limestone
	Shale
	Carb Sh
	Cherty LS
	Chert
	Dolomite



Company	COBALT ENERGY, LLC	Elevation	2448' KB
Lease	Herman-Drilling Unit 'A' #1-8		
Location	1650' FNL & 1662' FEL	SEC.	8 TWPSP 10S RGE 24W
County	Graham	State	Kansas