



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1105025
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: _____



1105025

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No 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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy, LLC.

1/11S/25W-Trego

115 S. Belmont #12
Wichita, KS 67208

Terry "A" #2-1

Job Ticket: 48619

DST#: 1

ATTN: Corey Baker

Test Start: 2012.11.16 @ 07:59:15

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:22:25

Time Test Ended: 13:15:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3776.00 ft (KB) To 3794.00 ft (KB) (TVD)

Reference Elevations: 2143.00 ft (KB)

Total Depth: 3794.00 ft (KB) (TVD)

2138.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 24.87 psig @ 3779.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.16

End Date:

2012.11.16

Last Calib.:

2012.11.16

Start Time:

07:59:15

End Time:

13:15:15

Time On Btm:

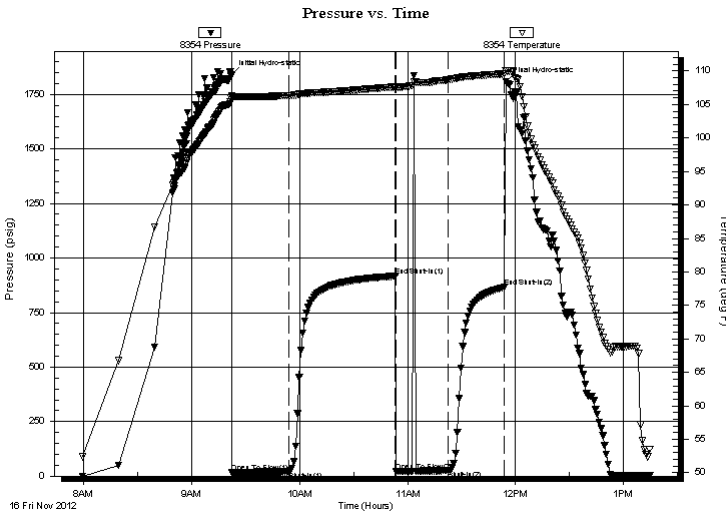
2012.11.16 @ 09:22:05

Time Off Btm:

2012.11.16 @ 11:54:45

TEST COMMENT: IF-Weak surface blow . Died @ 30 seconds.
ISI-No Return.
FF-No Blow . Flushed Tool. No Blow .
FSI-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1839.37	106.28	Initial Hydro-static
1	16.67	106.09	Open To Flow (1)
32	20.03	106.34	Shut-In(1)
92	916.76	107.64	End Shut-In(1)
92	20.93	107.51	Open To Flow (2)
121	24.87	108.70	Shut-In(2)
152	865.43	109.57	End Shut-In(2)
153	1807.84	110.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%Mud	0.05
0.00		0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC.

1/11S/25W-Trego

115 S. Belmont #12
Wichita, KS 67208

Terry "A" #2-1

Job Ticket: 48619

DST#: 1

ATTN: Corey Baker

Test Start: 2012.11.16 @ 07:59:15

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	100%Mud	0.049
0.00		0.000

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: Oil specs betw een shut-in and hydraulic tool.

Serial #: 8354

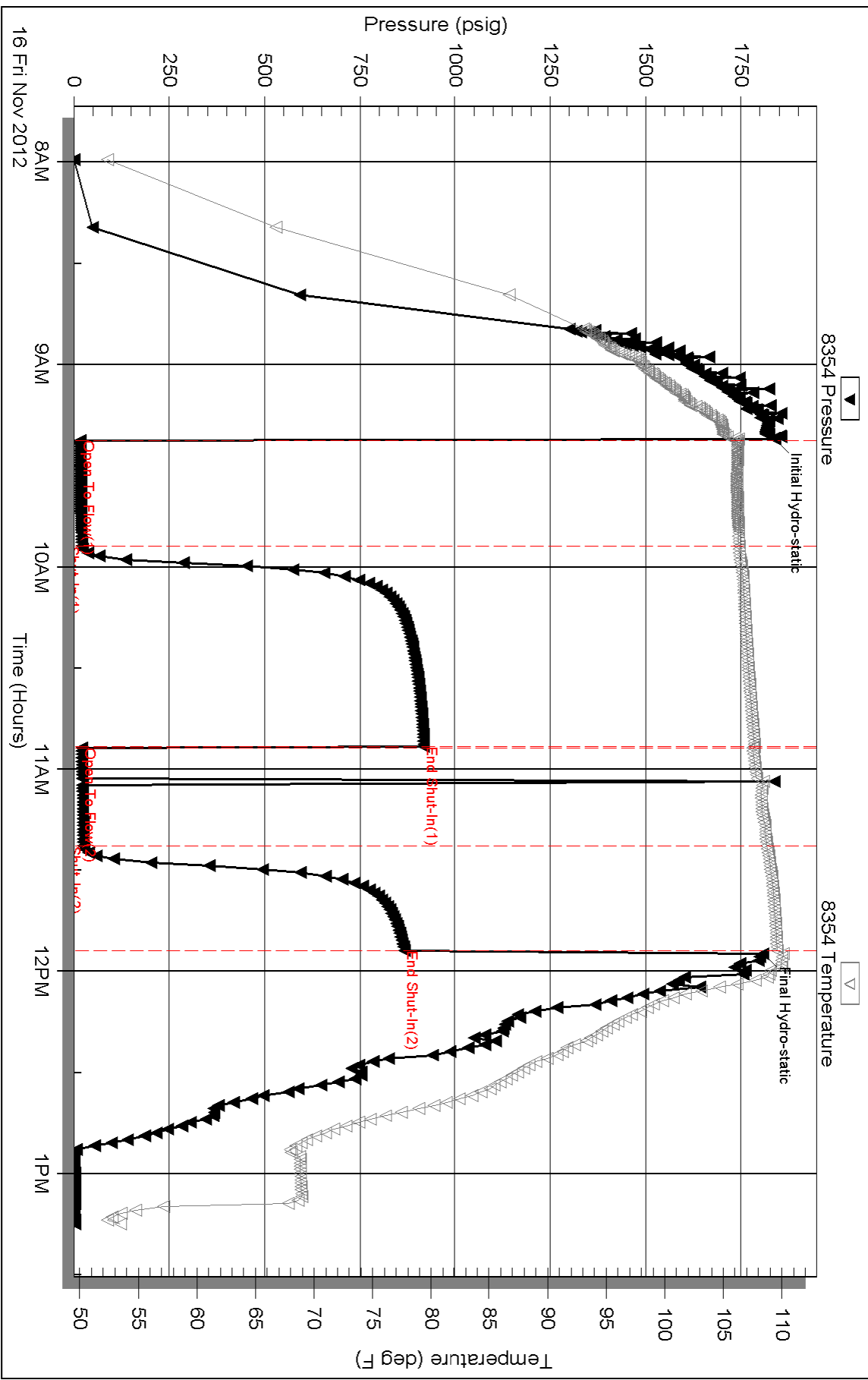
Inside

Cobalt Energy, LLC.

Terry "A" #2-1

DST Test Number: 1

Pressure vs. Time

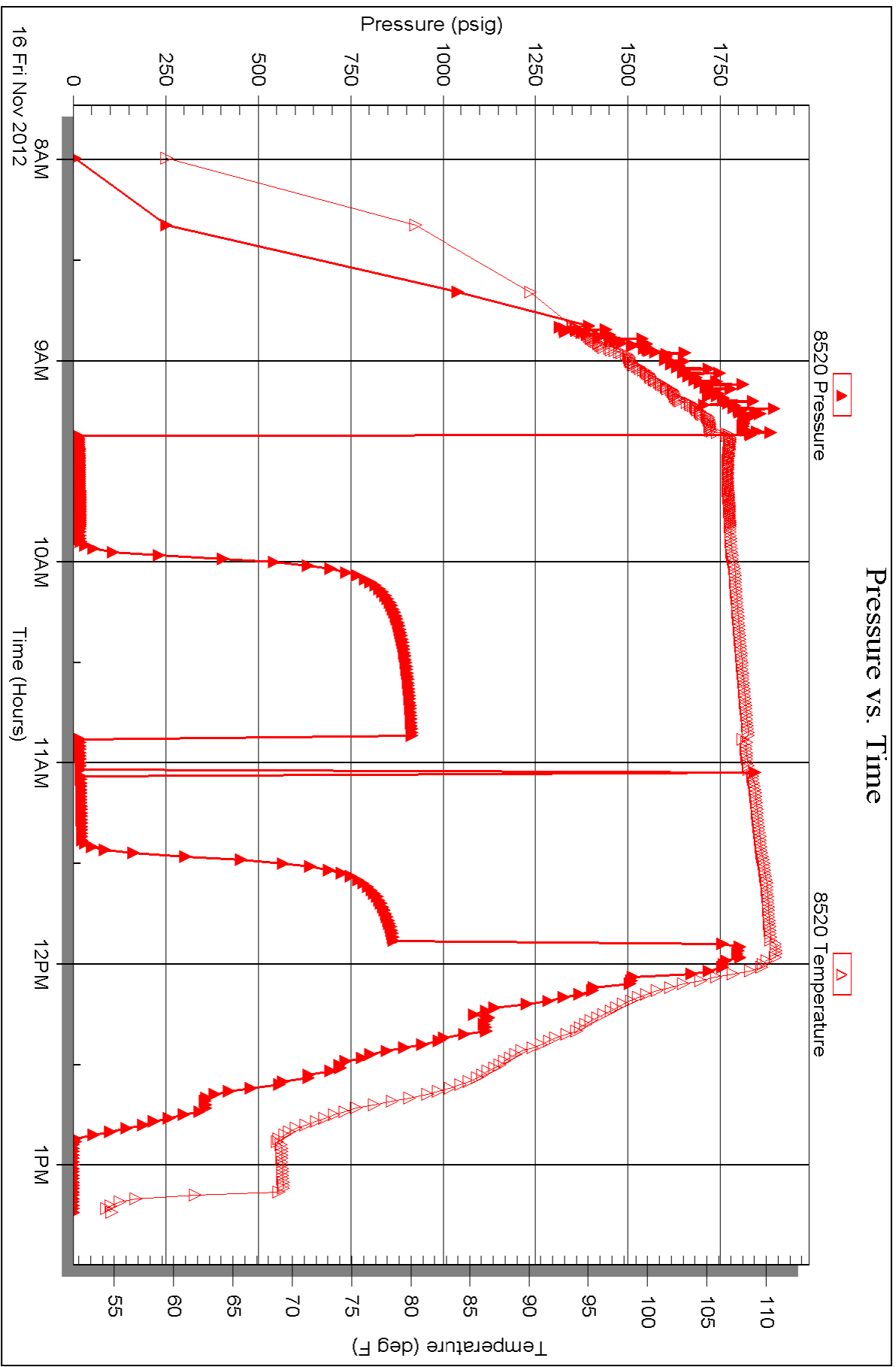


Serial #: 8520

Outside Cobalt Energy, LLC.

Terry "A" #2-1

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC.

1/11S/25W-Trego

115 S. Belmont #12
Wichita, KS 67208

Terry "A" #2-1

Job Ticket: 48620

DST#: 2

ATTN: Corey Baker

Test Start: 2012.11.16 @ 20:13:30

GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:41:50

Time Test Ended: 03:45:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3776.00 ft (KB) To 3835.00 ft (KB) (TVD)

Reference Elevations: 2418.00 ft (KB)

Total Depth: 3835.00 ft (KB) (TVD)

2413.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 50.52 psig @ 3815.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.16

End Date:

2012.11.17

Last Calib.:

2012.11.17

Start Time: 20:23:30

End Time:

03:45:30

Time On Btm:

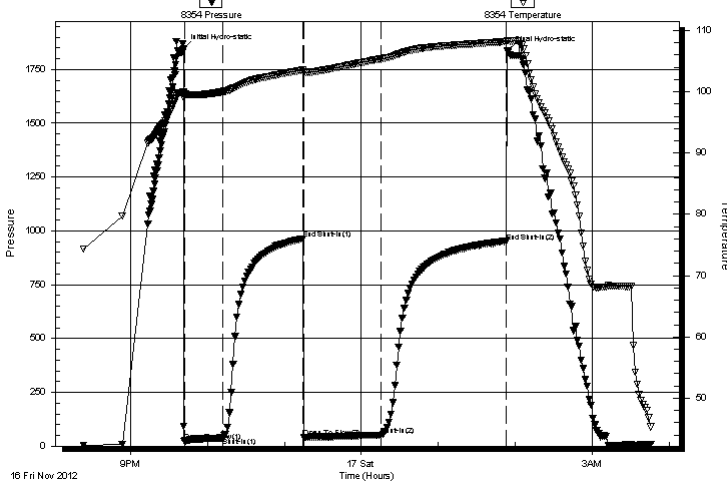
2012.11.16 @ 21:41:30

Time Off Btm:

2012.11.17 @ 01:54:00

TEST COMMENT: IF-Weak building blow . Built to 4 inches.
ISI-No Return.
FF-Weak building blow . Built to 5&1/2 inches.
FSI-No Return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1845.72	99.96	Initial Hydro-static
1	21.95	99.45	Open To Flow (1)
31	38.50	100.03	Shut-In(1)
93	963.49	103.55	End Shut-In(1)
94	39.18	103.33	Open To Flow (2)
154	50.52	105.38	Shut-In(2)
252	950.27	108.18	End Shut-In(2)
253	1838.80	108.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	5%Oil/95%Mud	0.71

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC.

1/11S/25W-Trego

115 S. Belmont #12
Wichita, KS 67208

Terry "A" #2-1

Job Ticket: 48620

DST#: 2

ATTN: Corey Baker

Test Start: 2012.11.16 @ 20:13:30

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	5%Oil/95%Mud	0.709

Total Length: 70.00 ft Total Volume: 0.709 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8354

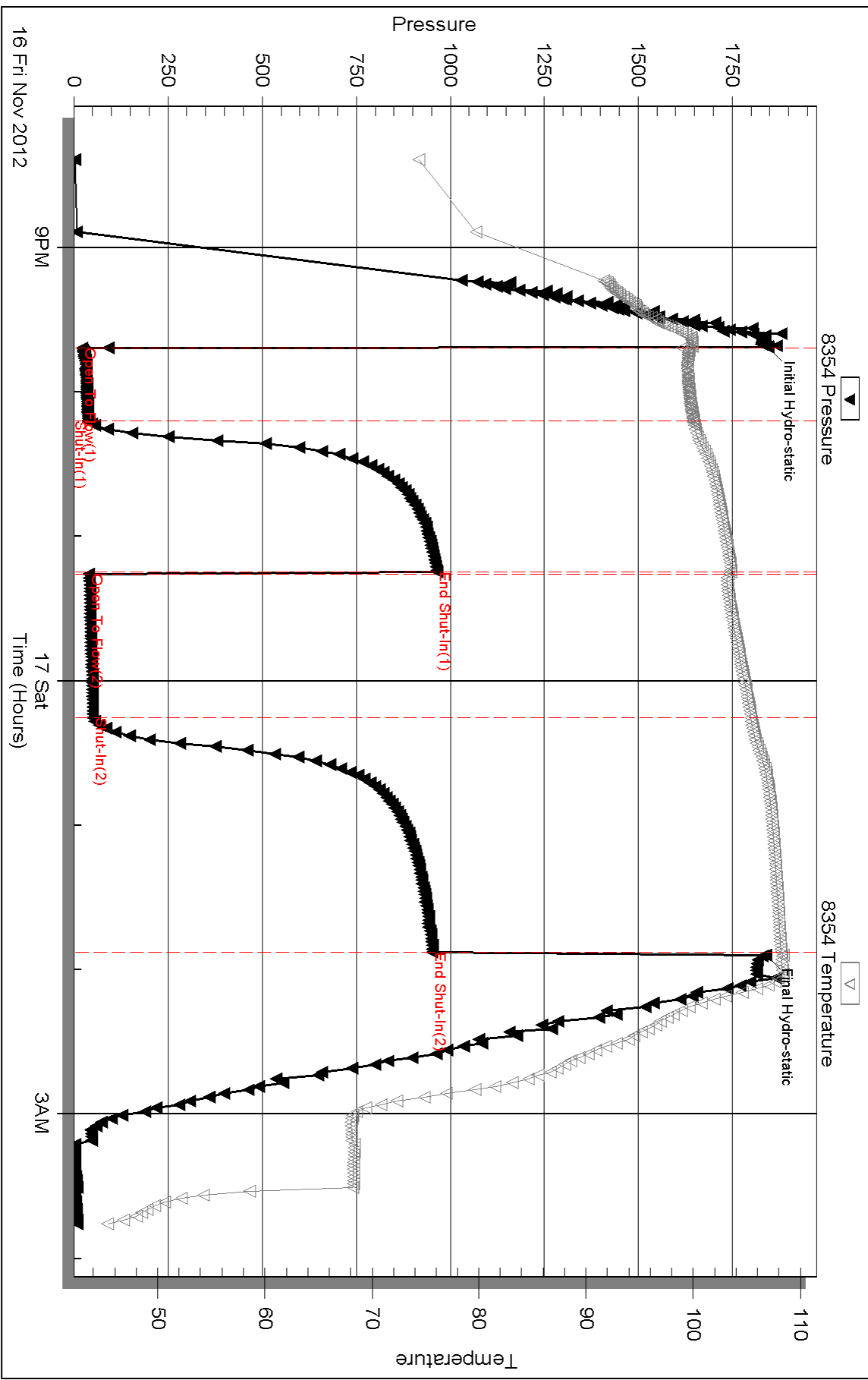
Inside

Cobalt Energy, LLC.

Terry "A" #2-1

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48620

Printed: 2012.11.17 @ 06:04:17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC.

1/11S/25W-Trego

115 S. Belmont #12
Wichita, KS 67208

Terry "A" #2-1

Job Ticket: 48621

DST#: 3

ATTN: Corey Baker

Test Start: 2012.11.17 @ 12:56:30

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:17:40

Time Test Ended: 19:46:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 66

Interval: 3880.00 ft (KB) To 3914.00 ft (KB) (TVD)

Reference Elevations: 2418.00 ft (KB)

Total Depth: 3914.00 ft (KB) (TVD)

2413.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 43.21 psig @ 3883.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.17

End Date:

2012.11.17

Last Calib.: 2012.11.17

Start Time: 13:06:30

End Time:

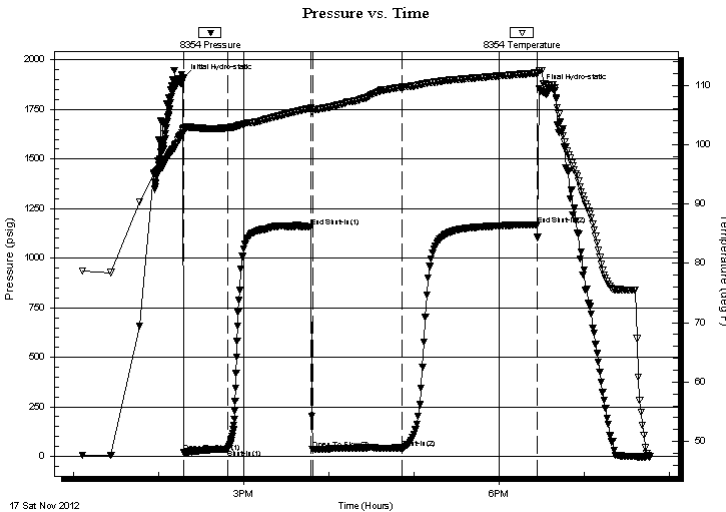
19:46:00

Time On Btm: 2012.11.17 @ 14:17:30

Time Off Btm: 2012.11.17 @ 18:28:00

TEST COMMENT: IF-Weak building blow . Built to 3&1/2 inches.
ISI-No Return.
FF-Weak building blow . Built to 2&1/2 inches.
FSI-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.32	102.78	Initial Hydro-static
1	19.17	101.98	Open To Flow (1)
32	37.67	102.84	Shut-In(1)
90	1156.66	106.14	End Shut-In(1)
91	36.86	105.92	Open To Flow (2)
154	43.21	109.65	Shut-In(2)
249	1169.45	112.05	End Shut-In(2)
251	1856.42	112.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	5%Oil/10%Water/85%Mud	0.12
30.00	5%Oil/95%Mud	0.38

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC.

1/11S/25W-Trego

115 S. Belmont #12
Wichita, KS 67208

Terry "A" #2-1

Job Ticket: 48621

DST#: 3

ATTN: Corey Baker

Test Start: 2012.11.17 @ 12:56:30

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:

6800 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: 1.19 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
25.00	5%Oil/10%Water/85%Mud	0.123
30.00	5%Oil/95%Mud	0.375

Total Length: 55.00 ft

Total Volume: 0.498 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

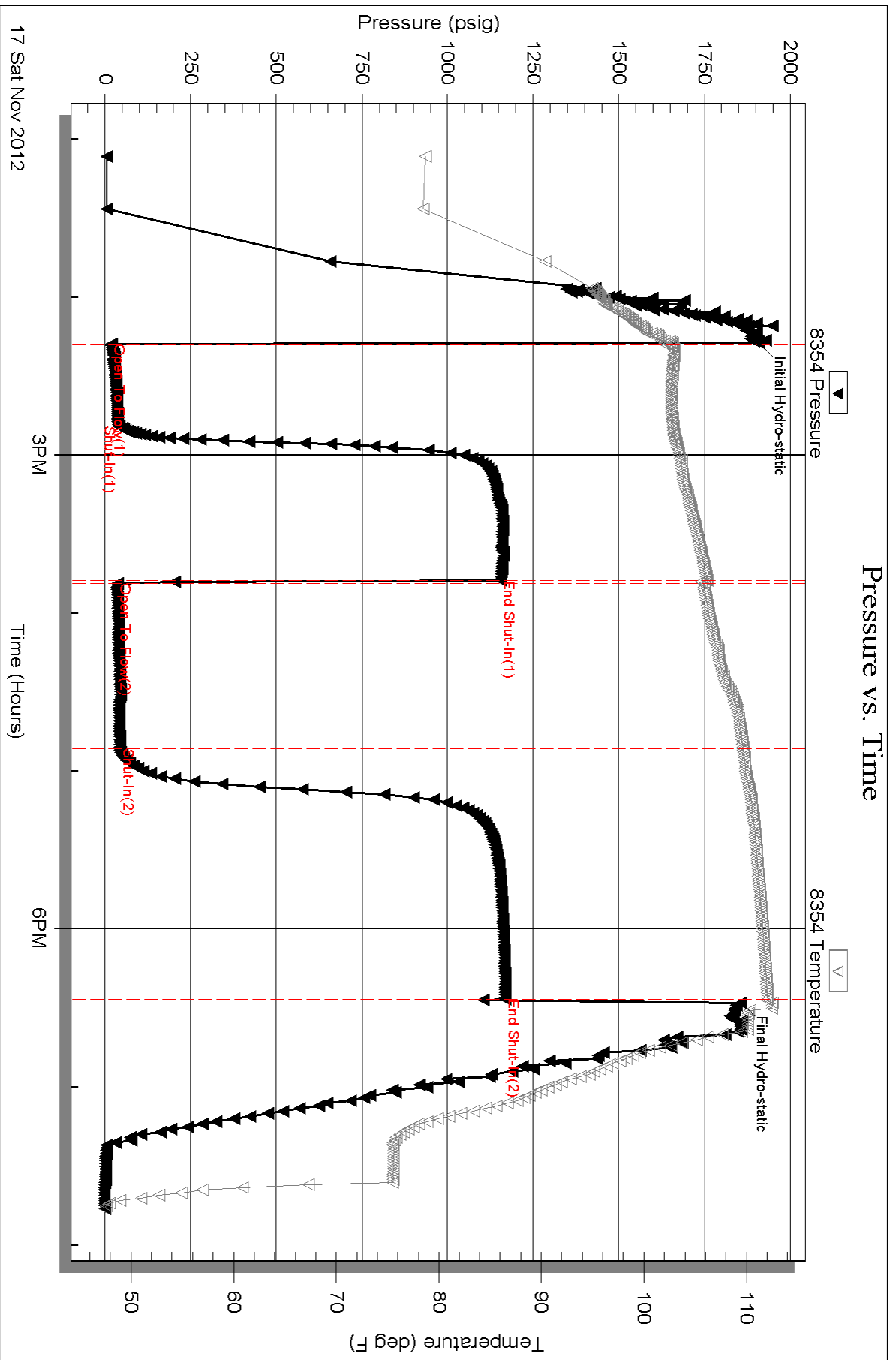
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





COBALT ENERGY LLC
COBALT ENERGY
 OIL & NATURAL GAS

GEOLOGIST'S REPORT
DRILL TIME & SAMPLE LOG

COMPANY: **COBALT ENERGY LLC**
 LEASE: **Terry 'A' #2-1**
 FIELD: **Struss West**
 LOCATION: **2302' FNL & 986' FWL**
 SEC: **1** TWP: **11S** RGE: **25W**
 COUNTY: **Trego** STATE: **KS**
 CONTRACTOR: **Martin Drilling - Rig #16**
 SPUD: **11/12/12** COMP: **11/18/12**
 RTD: **4050'** TYPE LTD: **4050'**
 MUD UP: **3310'** TYPE MUD: **Chemical**
 SAMPLES SAVED FROM: **3600'** TO: **RTD**
 DRILLING TIME KEPT FROM: **3600'** TO: **RTD**
 SAMPLES EXAMINED FROM: **3600'** TO: **RTD**
 GEOLOGICAL SUPERVISION FROM: **3600'** TO: **RTD**
 GEOLOGIST ON WELL: **Corey N. Baker**

ELEVATIONS
 KB: **2413'**
 DF: _____
 GL: **2413'**
 Measurements Avg All From: **KB**
CASING
 Conductor: **NA**
 Surface: **8 5/8" @ 219'**
 Production: **5 7/8" @ 2142'**

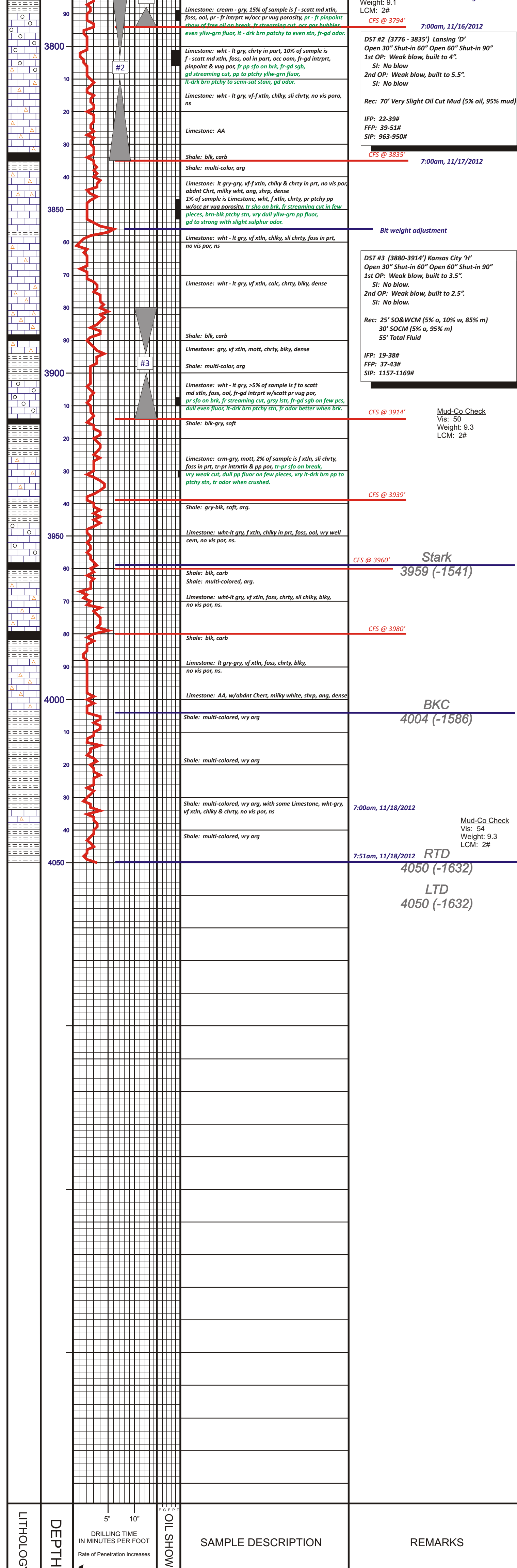
FORMATION TOPS: **ELECTRIC LOG**
 Anhydrite: **2040 (-378)** Sample: **2643 (-375)**
 Base of Anhydrite: **2078 (-340)** Sample: **2083 (-335)**
 Heebner: **3725 (-1307)** Sample: **3726 (-1308)**
 Lansing: **3760 (-1342)** Sample: **3761 (-1343)**
 Stark: **3958 (-1540)** Sample: **3959 (-1541)**
 BKC: **4004 (-1586)** Sample: **4004 (-1586)**
 LTD: **4050 (-1632)** Sample: **4050 (-1632)**

REMARKS: **The Terry 'A' #2-1 ran slightly lower than the offset but never developed commercial reservoir in the Lansing/ Kansas City zones. Shows were tested with negative results, and after reviewing all information it was decided to convert this well into a saltwater disposal for the Terry 'A' #1-1.**

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

API #15-195-22821-00-00

LEGEND
 Anhydrite, Sandstone, Limestone, Shale, Carb Sh, Cherty LS, Chert, Dolomite



Company: **COBALT ENERGY LLC** Elevation: **2418' KB**
 Lease: **Terry 'A' #2-1**
 Location: **2302' FNL & 986' FWL** SEC: **1** TWP: **11S** RGE: **25W**
 County: **Trego** State: **Kansas**

DEPTH: 5, 10
 OIL SHOWS: Rate of Penetration (minutes per foot) graph

SAMPLE DESCRIPTION
 REMARKS

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
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

January 15, 2013

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

Re: ACO1
API 15-195-22821-00-00
Terry 'A' 2-1
NW/4 Sec.01-11S-25W
Trego 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



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 39111
LOCATION Oakley, Ks
FOREMAN Walt Dinkel

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-12-12	2180	Terry A-21	1	11S	25W	Trego
CUSTOMER <u>Cobalt Energy</u>		Collar exit 1E 6N to B 16E 16N-ES	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			399	Damon Miller		
CITY		STATE	ZIP CODE	528-7127	Jordan Lawler	

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 220' CASING SIZE & WEIGHT 8 5/8
 CASING DEPTH 219' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 15'-20'
 DISPLACEMENT 12 3/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 BPM

REMARKS: Safety Meeting, rig up on Martin 16 #
mix 150 sks com, 3% cc = 20 gal, Displace 12 3/4 BBL H2O, shot in

*Thank You
Walt & crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401S	1	PUMP CHARGE	1,085.00	1,085.00
5406	40	MILEAGE	5.00	200.00
11043	150 sks	Class A Cement	17.65	2,647.50
1102	423 #	Calcium Chloride	.89	376.47
1118B	282 #	Gel	1.25	352.50
5407A	7.05	Ten Mileage Delivery	1.67	47.12
				4,850.62
		Less 10% Disc		- 485.07
				4,365.60
			SALES TAX	189.38
			ESTIMATED TOTAL	4554.98

completed

Ravin 3737

AUTHORIZATION Az Dinkel TITLE T.P. DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

254532



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 39151
LOCATION Oakley HS
FOREMAN Miles Shaw
Watt Dinked

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-18-12	2180	Terry A-2-1	1	11S	2SW	Trego
CUSTOMER <u>Colbalt Energy</u>			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS			463	Cory D		
CITY STATE ZIP CODE			693	M. Ho M		
			5287127	J. ramy		

JOB TYPE long string HOLE SIZE 7 7/8 HOLE DEPTH 4050' CASING SIZE & WEIGHT 5 1/2 15.5 #
 CASING DEPTH 2150 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 11.2 # 14.2 # SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 42'
 DISPLACEMENT 5 1/2 DISPLACEMENT PSI 500 MIX PSI 1000 psi RATE _____

REMARKS: Safety Meeting and rigup on martin drilling #16 set 505sk plus
@ 3.75' lay down pipe. Run casing float equipment centralizers @ 9.52
Baskets on 1st 15' Circulate casing 1/2 hr mix 305sk RT 205sk 14.2 # mix 225
SKs Multigrade cement @ 11.2 # and 505sk @ 14.2 # shut down Cleared pump lines
Released plug displaced 51.6 bbls water with 500psi lift plug landed @ 1000 psi
plug held cemented circulate 50 bbls to pit

Thanks Miles & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3020. ⁰⁰	3020. ⁰⁰
5406	40	MILEAGE	5. ⁰⁰	200. ⁰⁰
5407A	15.27 tons	Ton mileage delivery	1.67	1020.00
11045	325 SKS	Common Class A	17.65	5736.25
1101	611 #	Plaster	.49	299.39
1102	611 #	Calcium chloride	.89	543.79
1111A	611 #	Metasilicate	2.40	1466.40
1118B	783 #	Bentonite gel	.25	195.75
1107	81 #	Flo-sol	2.82	228.42
4104	2	5 1/2" Baskets W	276. ⁰⁰	552. ⁰⁰
4130	2	5 1/2" Centralizers	58. ⁰⁰	116. ⁰⁰
4454	1	5 1/2" Latch down asshly	303	303. ⁰⁰
4159	1	5 1/2" Float shoe W	413	413. ⁰⁰
1131	505h	60/40 poz	15.10	755. ⁰⁰
		Subtotal		14,899. ⁰⁰
		less 10% discount		13,409. ¹⁰
		Subtotal		13,364. ¹⁰
		SALES TAX		649. ²⁸
		ESTIMATED TOTAL		14013. ³⁸

Ravin 3737

AUTHORIZATION Jeff Crawford

TITLE _____

DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

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