



KANSAS CORPORATION COMMISSION 1077065  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34579  
Name: Cobalt Energy LLC  
Address 1: 115 S. BELMONT #12  
Address 2: PO BOX 8037  
City: WICHITA State: KS Zip: 67208 +  
Contact Person: Nicholas D. Hess  
Phone: ( 316 ) 201-4101  
CONTRACTOR: License # 5822  
Name: Val Energy, Inc.  
Wellsite Geologist: Corey Baker  
Purchaser: NCRA

Designate Type of Completion:

- New Well     Re-Entry     Workover
- Oil     WSW     SWD     SLOW  
 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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

<u>01/06/2012</u>	<u>01/14/2012</u>	<u>02/08/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-065-23798-00-00  
Spot Description: \_\_\_\_\_  
S2 NW NE Sec. 18 Twp. 10 S. R. 24  East  West  
990 Feet from  North /  South Line of Section  
1980 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Graham  
Lease Name: Hobbs 'A' Well #: 1-18  
Field Name: \_\_\_\_\_  
Producing Formation: LKC  
Elevation: Ground: 2457 Kelly Bushing: 2462  
Total Depth: 4049 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 226 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 2063 Feet  
If Alternate II completion, cement circulated from: 4042  
feet depth to: 2868 w/ 150 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 1200 ppm Fluid volume: 900 bbls  
Dewatering method used: Evaporated  
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

- Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: NAOMI JAMES Date: 04/05/2012



1077065

Operator Name: Cobalt Energy LLC Lease Name: Hobbs 'A' Well #: 1-18  
 Sec. 18 Twp. 10 S. R. 24  East  West County: Graham

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, lime 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	anhydrite	2094	+368
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	base anhydrite	2126	+336
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	heebner	3734	-1272
List All E. Logs Run:		landing	3772	-1310
<b>Attached</b>		stark	3957	-1495
		BKC	3999	-1537
		LTD	4049	-1587

CASING RECORD <input checked="" 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
surface	12.25	8.625	23	226	common	150	3%CC, 2% gel
production	7.75	5.5	15.50	4042	common	150	10%salt

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
— Perforate				
— Protect Casing				
— Plug Back TD	-			
— Plug Off Zone	-			

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
4	3772-3776 LKC A	250gal 15%MCA, 500gal 15%HCL	
4	3800-3804 LKC C	250gal 15%MCA	
4	3857-3859 LKC F	250gal 15%MCA	
4	3947-3950 LKC J	250gal 15%MCA	
4	3963-3965 LKC K	no acid	

TUBING RECORD:	Size: <u>2.3750</u>	Set At: <u>3992</u>	Packer At: <u>3902</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>02/27/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>50</u>	Gas Mcf <u>00</u>	Water Bbls. <u>120</u>	Gas-Oil Ratio _____ Gravity <u>38</u>

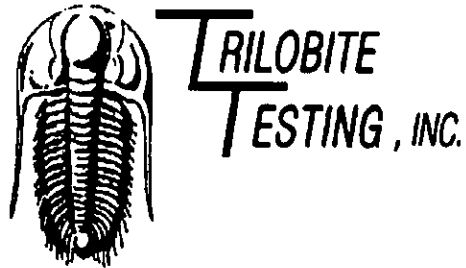
DISPOSITION OF GAS: <input checked="" type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3772</u> <u>3965</u>
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Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	Hobbs 'A' 1-18
Doc ID	1077065

All Electric Logs Run

Dual-Induction
Neutron-Density
Microlog
Cement bond log

GENERAL INFORMATION	
FORM NO. 101 (REV. 11-83)	U.S. DEPARTMENT OF COMMERCE
OFFICE OF FOREIGN DISBURSEMENTS	
INTERNATIONAL TRADE ADMINISTRATION	
WASHINGTON, D.C. 20540	
1. NAME OF EXPORTER	
2. NAME OF IMPORTER	
3. NAME OF CONSIGNEE	
4. NAME OF BUYER	
5. NAME OF SELLER	
6. NAME OF MANUFACTURER	
7. NAME OF PRODUCER	
8. NAME OF PROCESSOR	
9. NAME OF PACKER	
10. NAME OF SHIPPER	
11. NAME OF FREIGHT FORWARDER	
12. NAME OF CARRIER	
13. NAME OF DESTINATION	
14. NAME OF PORT OF ORIGIN	
15. NAME OF PORT OF DESTINATION	
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100. NAME OF AIR CARRIER	



## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita, KS 67208

ATTN: Corey

**Hobbs 'A' #1-18**

**18-10s-24w Graham,KS**

Start Date: 2012.01.10 @ 21:00:40

End Date: 2012.01.11 @ 08:33:40

Job Ticket #: 46222                      DST #: 1

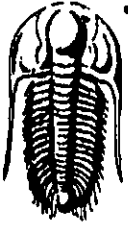
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.01.17 @ 09:05:25

Cobalt Energy LLC  
18-10s-24w Graham,KS  
Hobbs 'A' #1-18  
DST # 1  
KC "A-D"  
2012.01.10



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

18-10s-24w Graham,KS

PO Box 8037  
Wichita, KS 67208

Hobbs 'A' #1-18

Job Ticket: 46222

DST#: 1

ATTN: Corey

Test Start: 2012.01.10 @ 21:00:40

## GENERAL INFORMATION:

Formation: **KC "A-D"**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 01:44:40

Time Test Ended: 08:33:40

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Brett Dickinson**

Unit No: **59**

Interval: **3766.00 ft (KB) To 3830.00 ft (KB) (TVD)**

Total Depth: **3830.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2462.00 ft (KB)**

**2452.00 ft (CF)**

KB to GR/CF: **10.00 ft**

Serial #: **8319** Outside

Press@RunDepth: **362.49 psig @ 3767.00 ft (KB)**

Start Date: **2012.01.10**

End Date: **2012.01.11**

Capacity: **8000.00 psig**

Last Calib.: **2012.01.11**

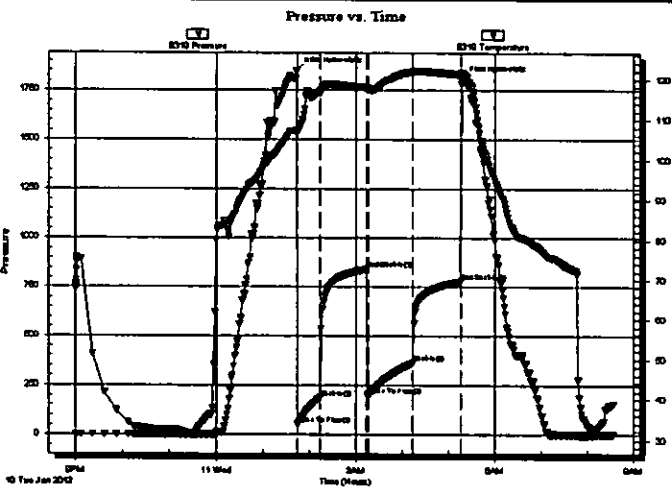
Start Time: **21:00:45**

End Time: **08:33:40**

Time On Btm: **2012.01.11 @ 01:43:40**

Time Off Btm: **2012.01.11 @ 05:17:40**

TEST COMMENT: IF-BOB in 2 min  
ISI-BOB in 24 min  
FF-BOB in 4.5 min  
FSI-BOB in 15 min



## PRESSURE SUMMARY

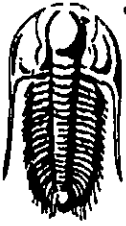
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1848.26	107.54	Initial Hydro-static
1	52.23	107.20	Open To Flow (1)
30	188.42	117.18	Shut-In(1)
91	842.18	118.03	End Shut-In(1)
92	199.53	117.65	Open To Flow (2)
150	362.49	121.91	Shut-In(2)
212	779.16	121.23	End Shut-In(2)
214	1803.80	121.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
500.00	GO 25%G 75%O	7.01
120.00	GOOM 30%G 25%O 45%M	1.68
120.00	GWMCO 15%G 50%O 10%W 25%M	1.68
120.00	MOW 60%W 40%M	1.68
0.00	1860 GP	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Cobalt Energy LLC  
 PO Box 8037  
 Wichita, KS 67208  
 ATTN: Corey

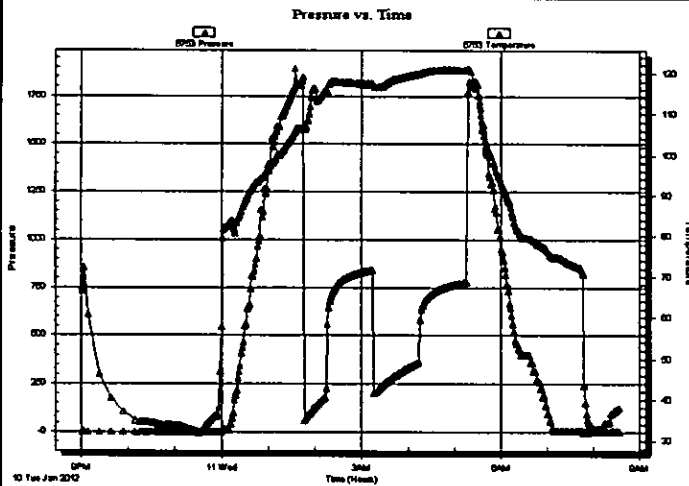
**18-10s-24w Graham, KS**  
**Hobbs 'A' #1-18**  
 Job Ticket: 46222      **DST#: 1**  
 Test Start: 2012.01.10 @ 21:00:40

### GENERAL INFORMATION:

Formation: **KC "A-D"**  
 Deviated: No Whipstock:                    ft (KB)  
 Time Tool Opened: 01:44:40  
 Time Test Ended: 08:33:40  
 Interval: **3766.00 ft (KB) To 3830.00 ft (KB) (TVD)**  
 Total Depth: **3830.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: **2462.00 ft (KB)**  
                                   **2452.00 ft (CF)**  
                                   KB to GR/CF: **10.00 ft**

Serial #: **6753**      Inside  
 Press@RunDepth:      psig @      3767.00 ft (KB)  
 Start Date: 2012.01.10      End Date: 2012.01.11      Capacity: 8000.00 psig  
 Start Time: 21:01:15      End Time: 08:33:40      Last Calib.: 2012.01.11  
    Time On Btmr  
    Time Off Btmr

**TEST COMMENT:** IF-BOB in 2 min  
 IS-BOB in 24 min  
 FF-BOB in 4.5 min  
 FSI-BOB in 15 min



### PRESSURE SUMMARY

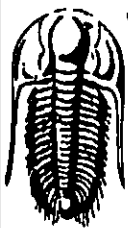
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
500.00	GO 25%G 75%O	7.01
120.00	GOCM 30%G 25%O 45%M	1.68
120.00	GVMCO 15%G 50%O 10%W 25%M	1.68
120.00	MCW 60%W 40%M	1.68
0.00	1860 GP	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy LLC

**18-10s-24w Graham,KS**

PO Box 8037  
Wichita, KS 67208

**Hobbs 'A' #1-18**

Job Ticket: 46222

**DST#: 1**

ATTN: Corey

Test Start: 2012.01.10 @ 21:00:40

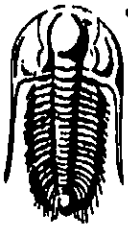
### Tool Information

Drill Pipe:	Length: 3758.00 ft	Diameter: 3.80 inches	Volume: 52.71 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3766.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3744.00	
Shut In Tool	5.00			3749.00	
Hydraulic tool	5.00			3754.00	
Safety Joint	2.00			3756.00	
Packer	5.00			3761.00	23.00 Bottom Of Top Packer
Packer	5.00			3766.00	
Stubb	1.00			3767.00	
Recorder	0.00	6753	Inside	3767.00	
Recorder	0.00	8319	Outside	3767.00	
Perforations	4.00			3771.00	
Change Over Sub	1.00			3772.00	
Drill Pipe	32.00			3804.00	
Change Over Sub	1.00			3805.00	
Perforations	22.00			3827.00	
Bullnose	3.00			3830.00	64.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>87.00</b>				





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Cobalt Energy LLC  
PO Box 8037  
Wichita, KS 67208  
ATTN: Corey

18-10s-24w Graham,KS  
Hobbs 'A' #1-18  
Job Ticket: 46222      DST#: 1  
Test Start: 2012.01.10 @ 21:00:40

### Mud and Cushion Information

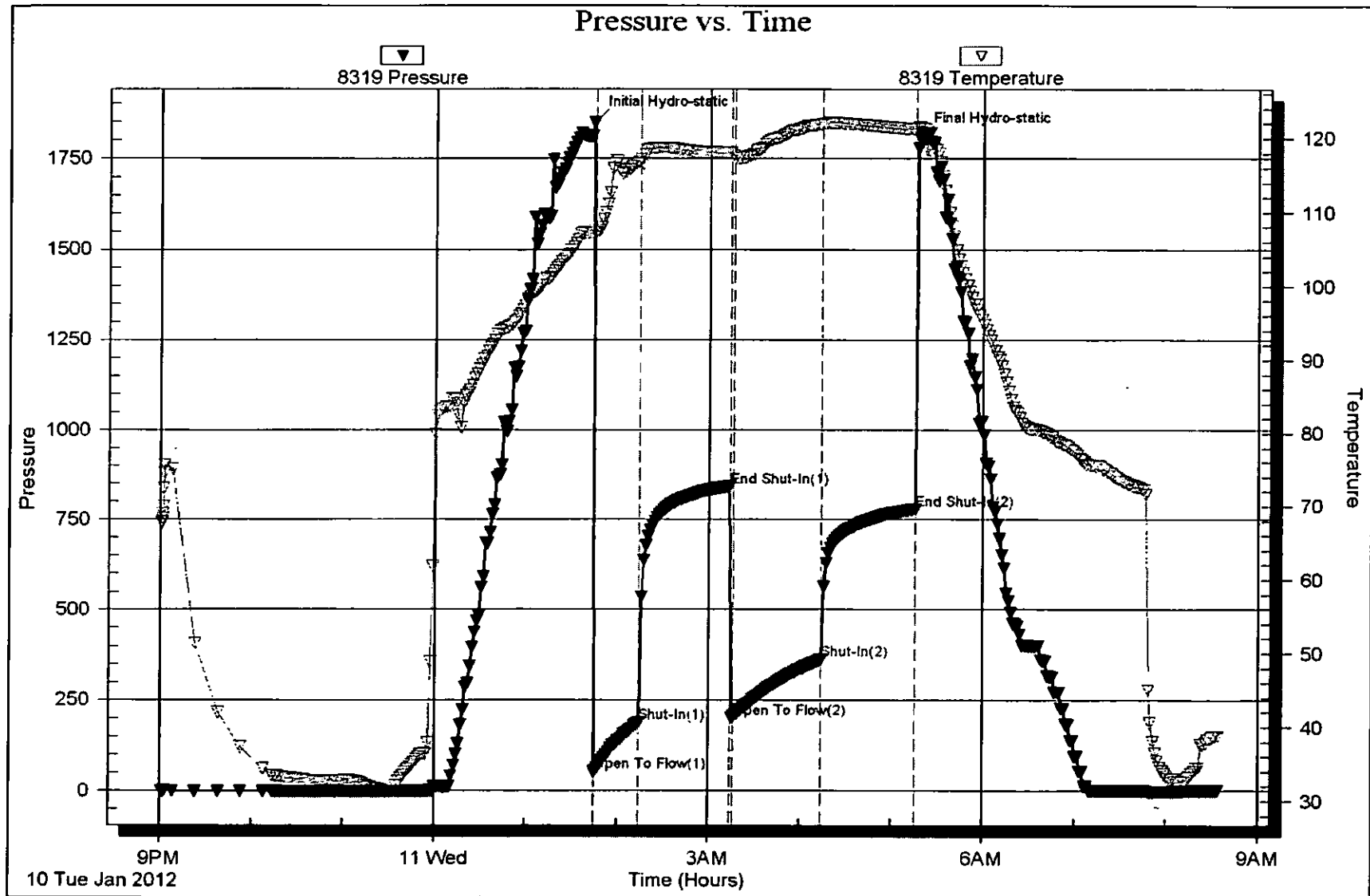
Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 150000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.59 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 800.00 ppm		
Filter Cake: inches		

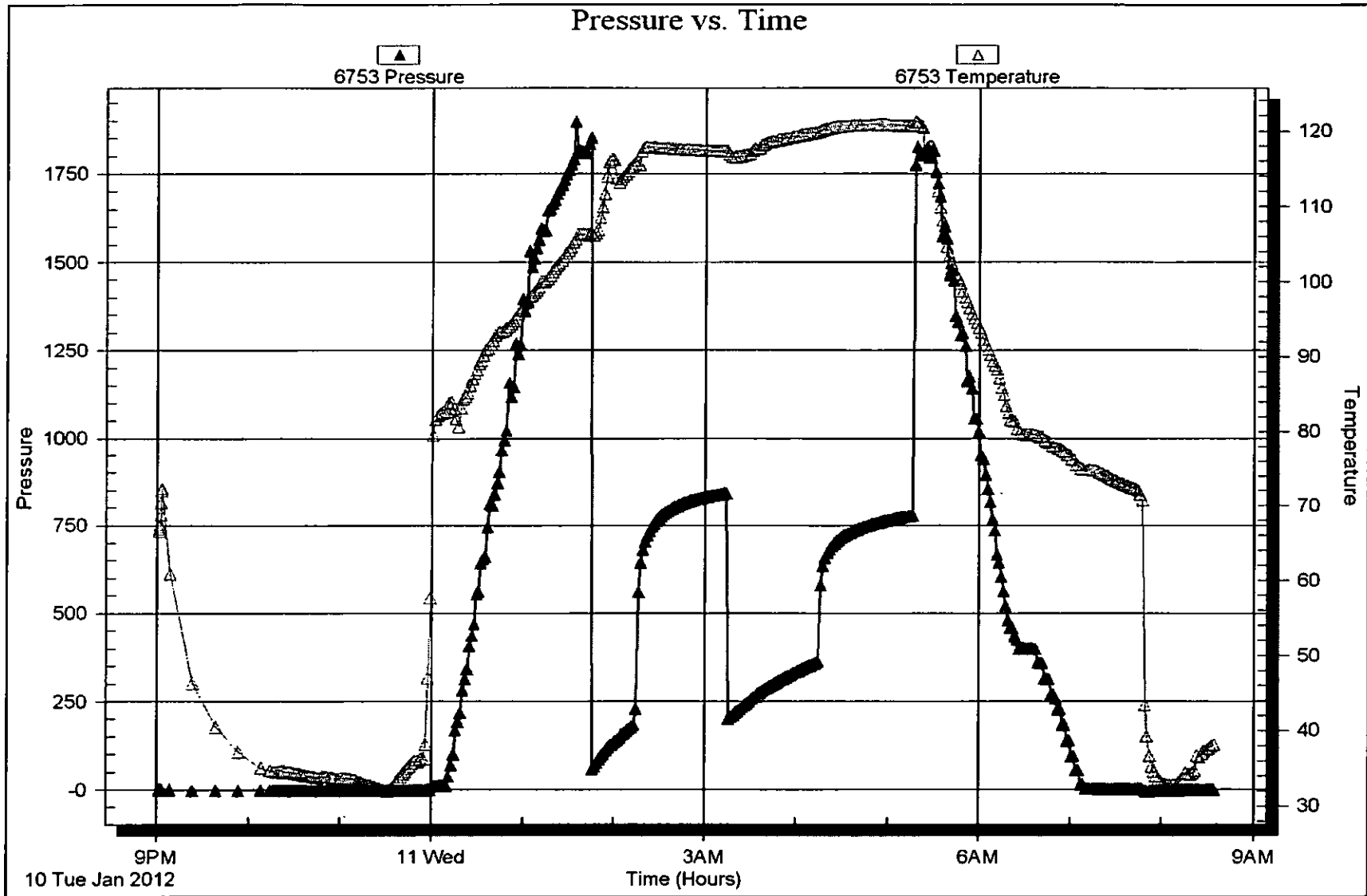
### Recovery Information

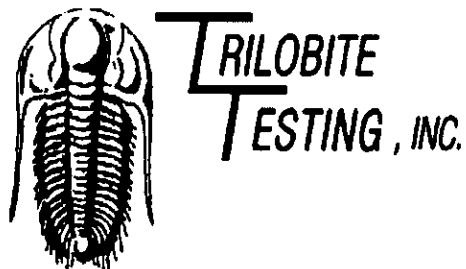
Recovery Table

Length ft	Description	Volume bbl
500.00	GO 25%G 75%O	7.014
120.00	GOCM 30%G 25%O 45%M	1.683
120.00	GVMCO 15%G 50%O 10%W 25%M	1.683
120.00	MCW 60%W 40%M	1.683
0.00	1860 GP	0.000

Total Length: 860.00 ft      Total Volume: 12.063 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW .12 @ 35







## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita, KS 67208

ATTN: Corey

**Hobbs 'A' #1-18**

**18-10s-24w Graham,KS**

Start Date: 2012.01.12 @ 00:10:10

End Date: 2012.01.12 @ 10:18:40

Job Ticket #: 46223                      DST #: 2

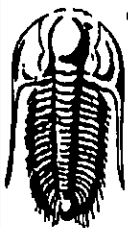
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.01.17 @ 09:04:02

Cobalt Energy LLC 18-10s-24w Graham,KS Hobbs 'A' #1-18 DST # 2 KC "H-J" 2012.01.12



**TRIBOLITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Cobalt Energy LLC

18-10s-24w Graham, KS

PO Box 8037  
Wichita, KS 67208

Hobbs 'A' #1-18

Job Ticket: 46223

DST#: 2

ATTN: Corey

Test Start: 2012.01.12 @ 00:10:10

### GENERAL INFORMATION:

Formation: **KC "H-J"**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 03:48:40

Time Test Ended: 10:18:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3892.00 ft (KB) To 3960.00 ft (KB) (TVD)

Total Depth: 3960.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2462.00 ft (KB)

2452.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6753

Inside

Press@RunDepth: 65.33 psig @ 3893.00 ft (KB)

Start Date: 2012.01.12

End Date:

2012.01.12

Capacity: 8000.00 psig

Last Calib.: 2012.01.12

Start Time: 00:10:15

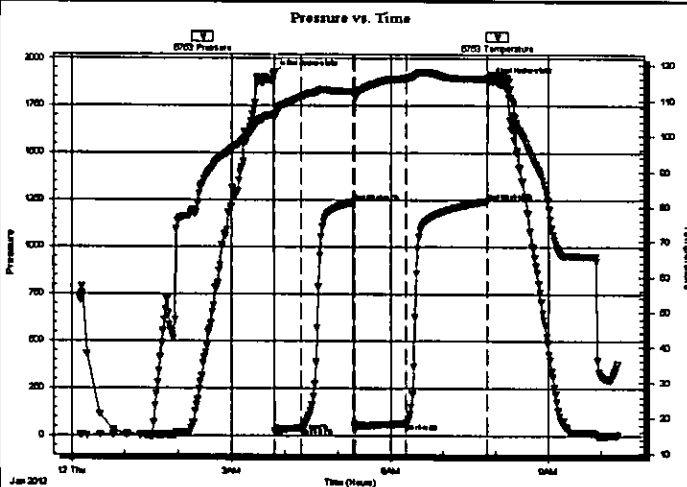
End Time:

10:18:40

Time On Btmr 2012.01.12 @ 03:46:40

Time Off Btmr 2012.01.12 @ 07:51:40

TEST COMMENT: IF-BOB in 21 min  
ISI-Weak surface blow died in 24 min  
FF-BOB in 1 min  
FSI-2" blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1914.83	105.90	Initial Hydro-static
2	21.27	105.32	Open To Flow (1)
32	38.56	110.95	Shut-In(1)
91	1242.66	112.56	End Shut-In(1)
93	41.14	111.42	Open To Flow (2)
152	65.33	116.35	Shut-In(2)
244	1246.56	116.19	End Shut-In(2)
245	1881.40	116.44	Final Hydro-static

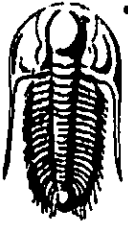
### Recovery

Length (ft)	Description	Volume (bbl)
60.00	GO 15%G 85%O	0.84
60.00	SGMDO 5%G 25%M 70%O	0.84
0.00	360' GIP	0.00

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Cobalt Energy LLC  
 PO Box 8037  
 Wichita, KS 67208  
 ATTN: Corey

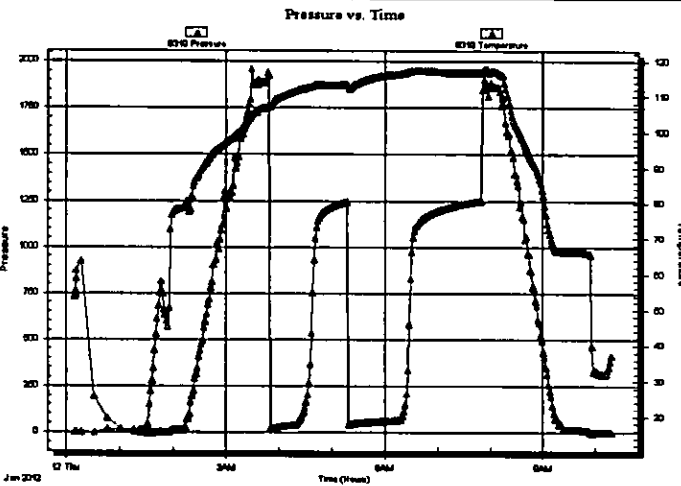
**18-10s-24w Graham, KS**  
**Hobbs 'A' #1-18**  
 Job Ticket: 46223      **DST#: 2**  
 Test Start: 2012.01.12 @ 00:10:10

**GENERAL INFORMATION:**

Formation: <b>KC "H-J"</b>	Deviated: No Whipstock:      ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 03:48:40	Time Test Ended: 10:18:40	Tester: Brett Dickinson
Interval: <b>3892.00 ft (KB) To 3960.00 ft (KB) (TVD)</b>	Total Depth: <b>3960.00 ft (KB) (TVD)</b>	Unit No: 59
Hole Diameter: 7.88 inches Hole Condition: Fair	Reference Elevations: 2462.00 ft (KB) 2452.00 ft (CF)	KB to GR/CF: 10.00 ft

Serial #: <b>8319</b>	<b>Outside</b>	Press@RunDepth:      psig @      3893.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.01.12	End Date: 2012.01.12	Start Time: 00:09:45	Last Calib.: 2012.01.12
	End Time: 10:18:10		Time On Btmr
			Time Off Btmr

**TEST COMMENT:**  
 IF-BOB in 21 min  
 ISI-Weak surface blow died in 24 min  
 FF-BOB in 1 min  
 FSI-2" blowback



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

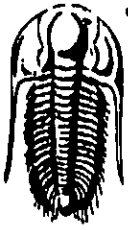
**Recovery**

Length (ft)	Description	Volume (bbl)
60.00	GO 15%G 85%O	0.84
60.00	SGMCO 5%G 25%M 70%O	0.84
0.00	360' GIP	0.00

**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  
PO Box 8037  
Wichita, KS 67208  
ATTN: Corey

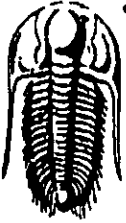
**18-10s-24w Graham, KS**  
**Hobbs 'A' #1-18**  
Job Ticket: 46223      **DST#: 2**  
Test Start: 2012.01.12 @ 00:10:10

**Tool Information**

Drill Pipe:	Length: 3885.00 ft	Diameter: 3.80 inches	Volume: 54.50 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length:            ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3892.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3870.00	
Shut In Tool	5.00			3875.00	
Hydraulic tool	5.00			3880.00	
Safety Joint	2.00			3882.00	
Packer	5.00			3887.00	23.00      Bottom Of Top Packer
Packer	5.00			3892.00	
Stubb	1.00			3893.00	
Recorder	0.00	6753	Inside	3893.00	
Recorder	0.00	8319	Outside	3893.00	
Perforations	4.00			3897.00	
Change Over Sub	1.00			3898.00	
Drill Pipe	32.00			3930.00	
Change Over Sub	1.00			3931.00	
Perforations	26.00			3957.00	
Bullnose	3.00			3960.00	68.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>91.00</b>				



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Cobalt Energy LLC  
PO Box 8037  
Wichita, KS 67208  
ATTN: Corey

**18-10s-24w Graham,KS**  
**Hobbs 'A' #1-18**  
Job Ticket: 46223      **DST#: 2**  
Test Start: 2012.01.12 @ 00:10:10

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm	
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in <sup>2</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1600.00 ppm			
Filter Cake: inches			

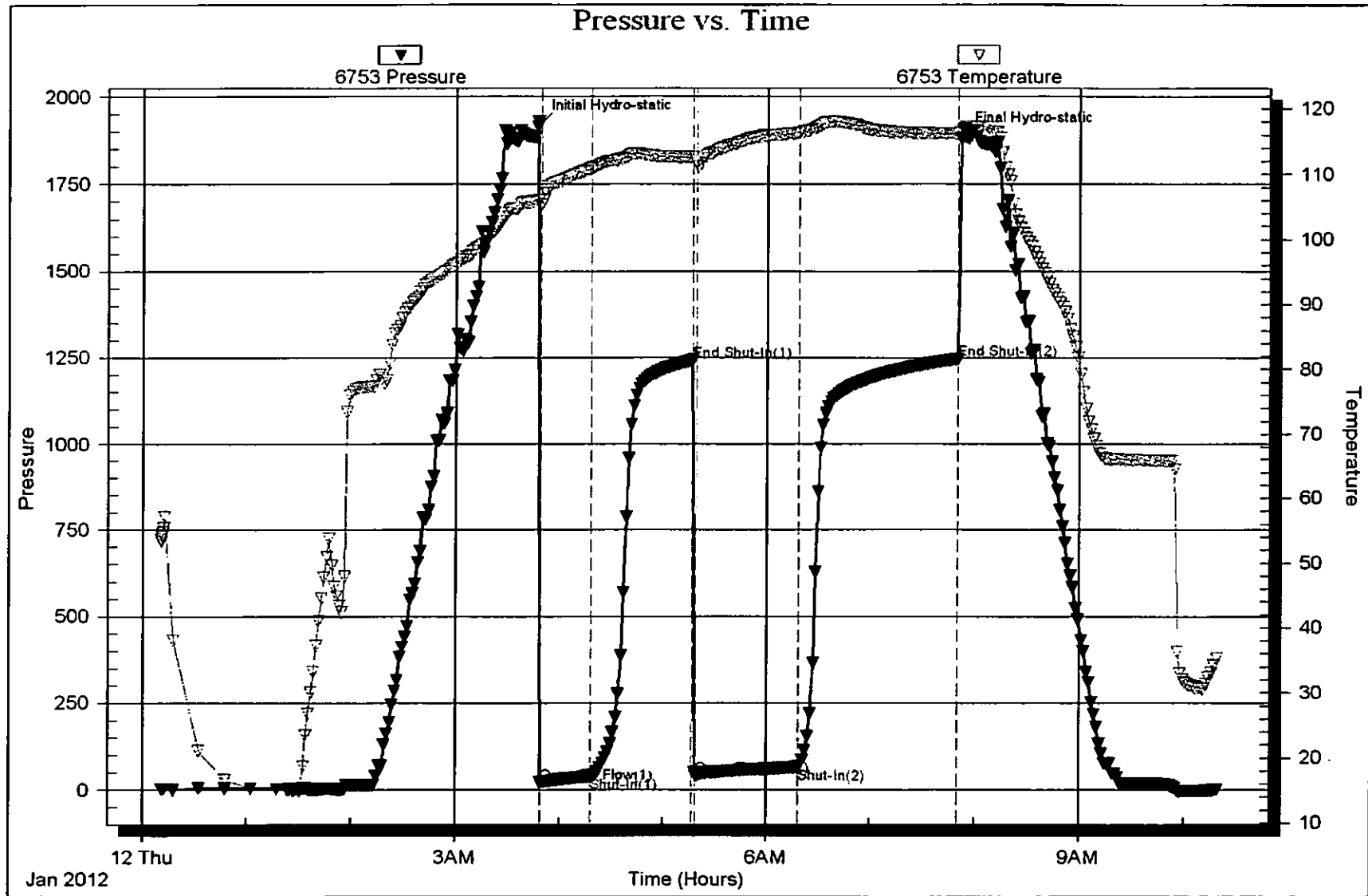
**Recovery Information**

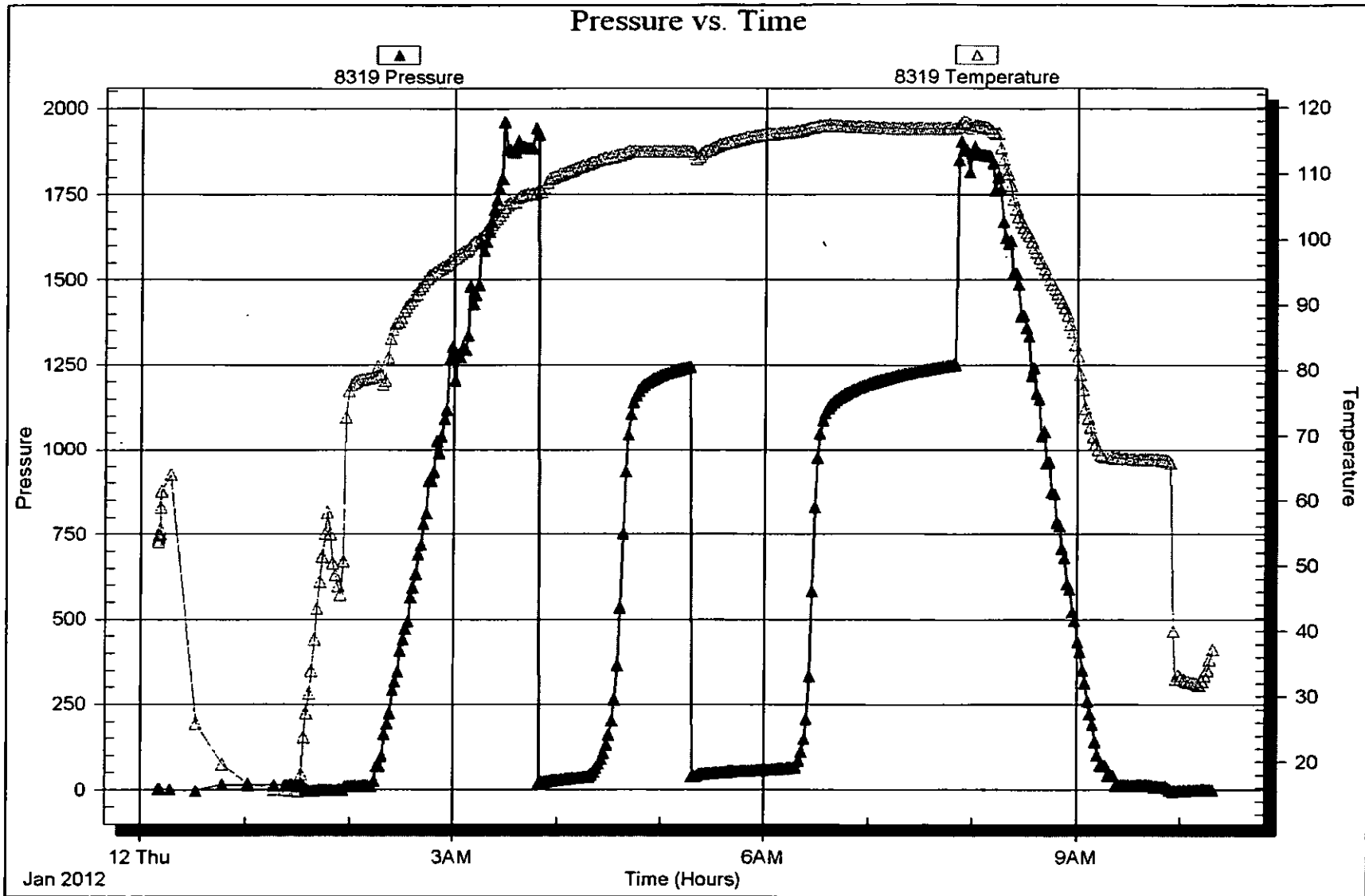
Recovery Table

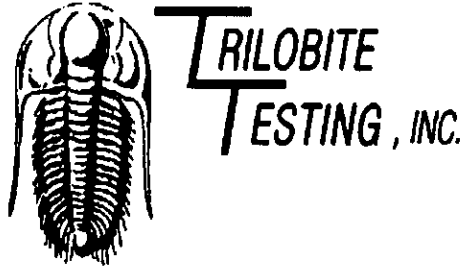
Length ft	Description	Volume bbl
60.00	GO 15%G 85%O	0.842
60.00	SGMOO 5%G 25%M 70%O	0.842
0.00	360' GIP	0.000

Total Length: 120.00 ft      Total Volume: 1.684 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita, KS 67208

ATTN: Corey

### **Hobbs 'A' #1-18**

#### **18-10s-24w Graham,KS**

Start Date: 2012.01.12 @ 17:10:01

End Date: 2012.01.13 @ 03:01:31

Job Ticket #: 46224                      DST #: 3

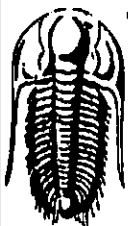
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.01.17 @ 09:03:23

Cobalt Energy LLC  
18-10s-24w Graham,KS  
Hobbs 'A' #1-18  
DST # 3  
KC "K"  
2012.01.12



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Cobalt Energy LLC

18-10s-24w Graham,KS

PO Box 8037  
Wichita, KS 67208

Hobbs 'A' #1-18

Job Ticket: 46224

DST#: 3

ATTN: Corey

Test Start: 2012.01.12 @ 17:10:01

### GENERAL INFORMATION:

Formation: **KC "K"**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 19:49:01

Time Test Ended: 03:01:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3964.00 ft (KB) To 3980.00 ft (KB) (TVD)

Reference Elevations: 2462.00 ft (KB)

Total Depth: 3980.00 ft (KB) (TVD)

2452.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6753

Inside

Press@RunDepth: 761.81 psig @ 3965.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.12

End Date:

2012.01.13

Last Calib.: 2012.01.13

Start Time: 17:10:06

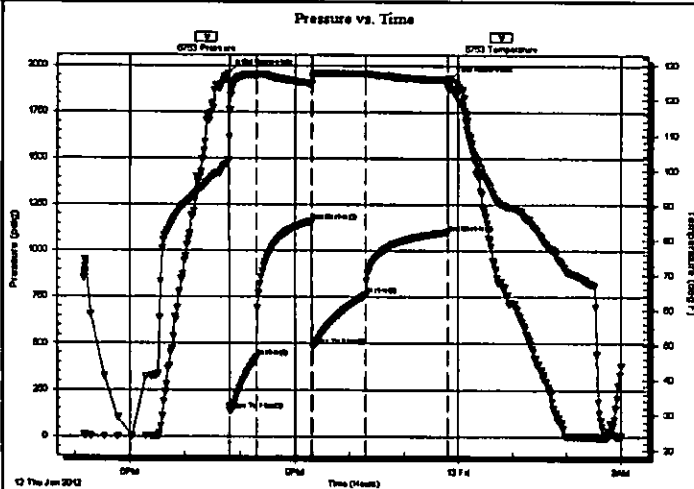
End Time:

03:01:31

Time On Btm: 2012.01.12 @ 19:47:01

Time Off Btm: 2012.01.12 @ 23:50:31

TEST COMMENT: IF-BOB in 1/2 min  
ISI-5.5" blow  
FF-BOB in 1 min  
FSI-9" blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.14	102.72	Initial Hydro-static
2	139.37	117.12	Open To Flow (1)
31	424.58	127.32	Shut-In(1)
92	1159.77	124.75	End Shut-In(1)
93	487.76	126.61	Open To Flow (2)
151	761.81	127.68	Shut-In(2)
241	1100.31	125.81	End Shut-In(2)
244	1923.24	123.24	Final Hydro-static

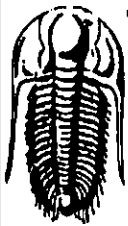
### Recovery

Length (ft)	Description	Volume (bbl)
65.00	GO 15%G 85%O	0.91
60.00	GSWO 10%G 80%O 10%W	0.84
120.00	GOCW 10%G 20%O 70%W	1.68
60.00	SOCW 5%O 95%W	0.84
1335.00	water	18.73
0.00	240ft GIP	0.00

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

Cobalt Energy LLC

18-10s-24w Graham, KS

PO Box 8037  
Wichita, KS 67208

Hobbs 'A' #1-18

Job Ticket: 46224

DST#: 3

ATTN: Corey

Test Start: 2012.01.12 @ 17:10:01

### GENERAL INFORMATION:

Formation: **KC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:49:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Time Test Ended: 03:01:31

Unit No: 59

Interval: **3964.00 ft (KB) To 3980.00 ft (KB) (TVD)**

Reference Elevations: 2462.00 ft (KB)

Total Depth: 3980.00 ft (KB) (TVD)

2452.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: **8319** Outside

Press@RunDepth: psig @ 3965.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.12

End Date:

2012.01.13

Last Calib.:

2012.01.13

Start Time: 17:09:37

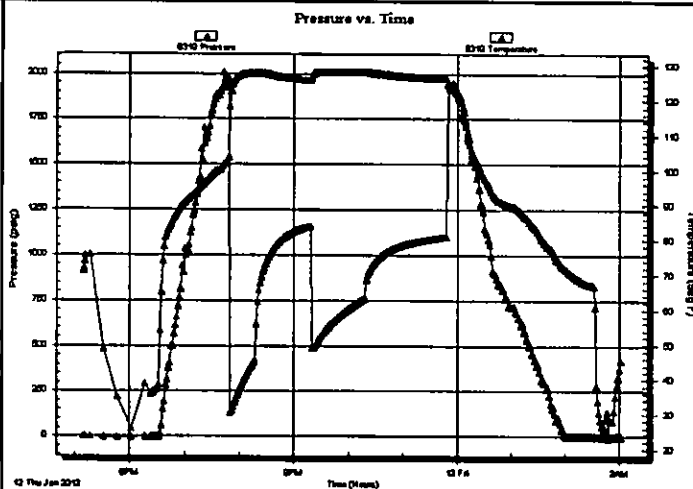
End Time:

03:01:32

Time On Btm

Time Off Btm

**TEST COMMENT:** IF-BOB in 1/2 min  
ISI-5.5" blow  
FF-BOB in 1 min  
FSI-9" blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

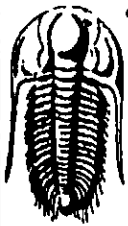
### Recovery

Length (ft)	Description	Volume (bbl)
65.00	GO 15%G 85%O	0.91
60.00	GSWO 10%G 80%O 10%W	0.84
120.00	GOCW 10%G 20%O 70%W	1.68
60.00	SOCW 5%O 95%W	0.84
1335.00	water	18.73
0.00	240ft GIP	0.00

\* 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

**18-10s-24w Graham, KS**

PO Box 8037  
Wichita, KS 67208

**Hobbs 'A' #1-18**

Job Ticket: 46224

**DST#: 3**

ATTN: Corey

Test Start: 2012.01.12 @ 17:10:01

### Tool Information

Drill Pipe:	Length: 3949.00 ft	Diameter: 3.80 inches	Volume: 55.39 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3964.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3942.00	
Shut In Tool	5.00			3947.00	
Hydraulic tool	5.00			3952.00	
Safety Joint	2.00			3954.00	
Packer	5.00			3959.00	23.00 Bottom Of Top Packer
Packer	5.00			3964.00	
Stubb	1.00			3965.00	
Recorder	0.00	6753	Inside	3965.00	
Recorder	0.00	8319	Outside	3965.00	
Perforations	12.00			3977.00	
Bullnose	3.00			3980.00	16.00 Bottom Packers & Anchor

**Total Tool Length: 39.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

18-10s-24w Graham,KS

PO Box 8037  
Wichita, KS 67208

Hobbs 'A' #1-18

Job Ticket: 46224

DST#: 3

ATTN: Corey

Test Start: 2012.01.12 @ 17:10:01

### 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:

135000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	GO 15%G 85%O	0.912
60.00	GSWCO 10%G 80%O 10%W	0.842
120.00	GOCW 10%G 20%O 70%W	1.683
60.00	SOCW 5%O 95%W	0.842
1335.00	water	18.727
0.00	240ft GP	0.000

Total Length: 1640.00 ft      Total Volume: 23.006 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .14 @ 32

Serial #: 6753

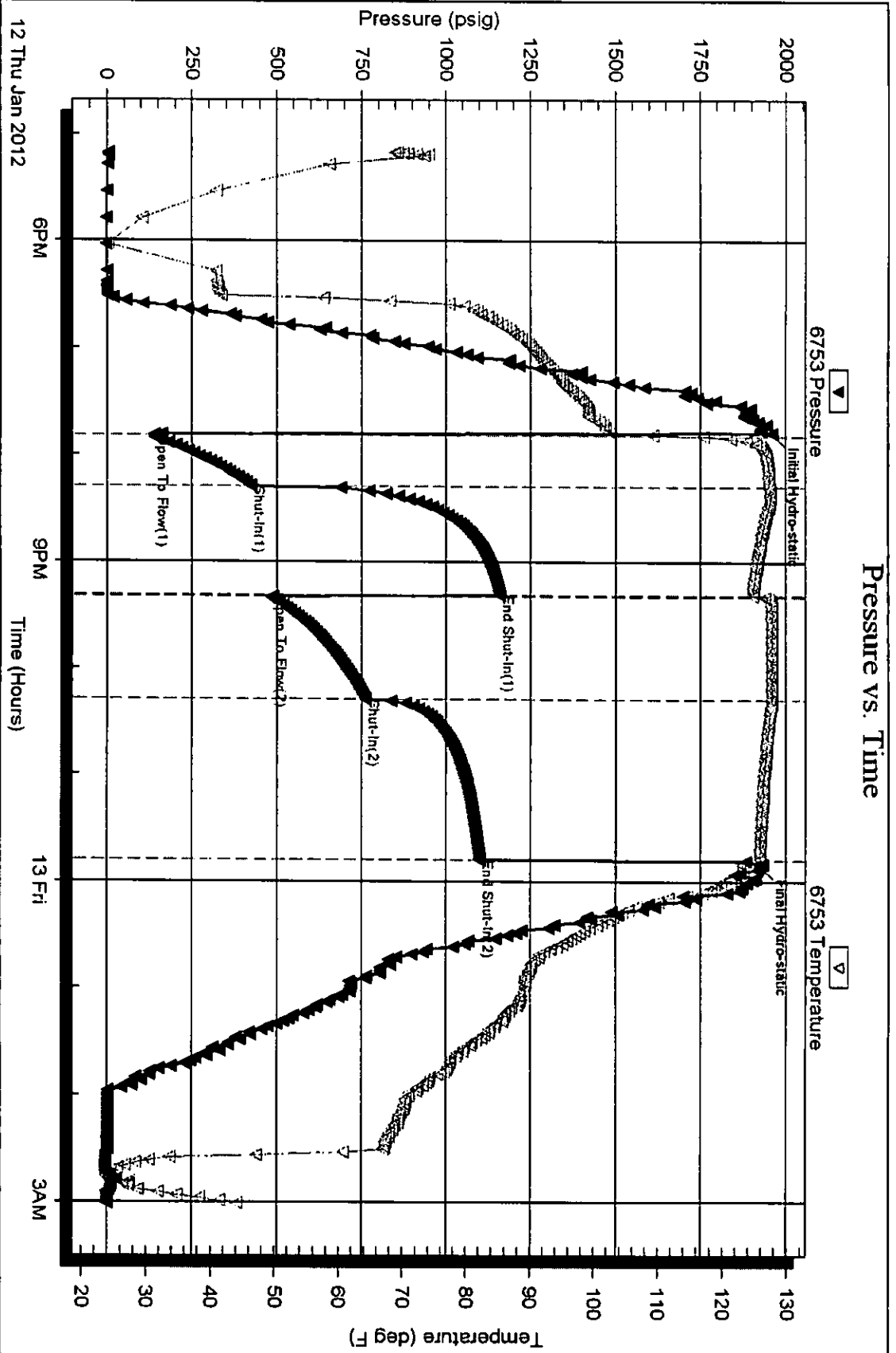
Inside

Cobalt Energy LLC

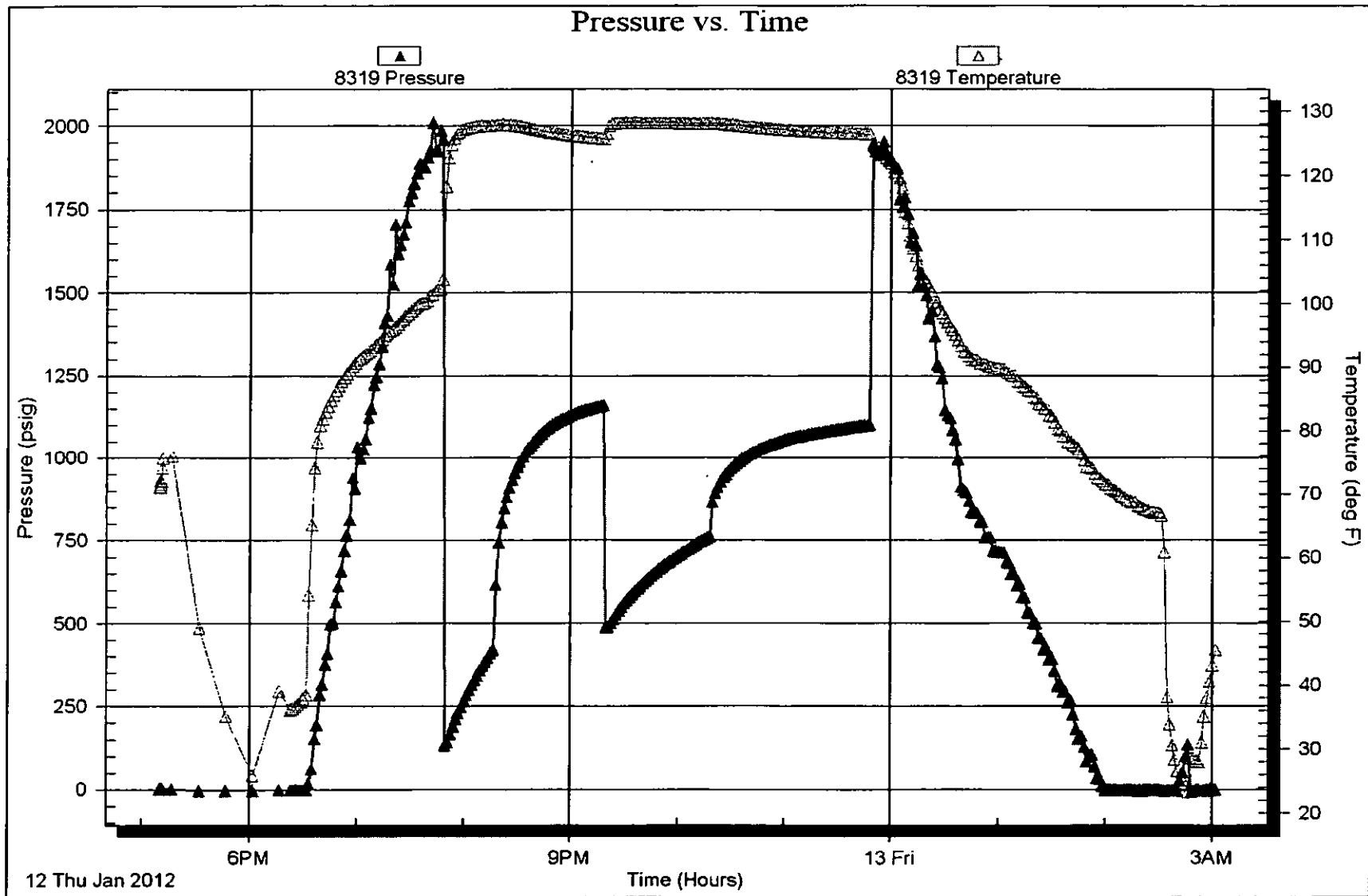
Hobbs 'A' #1-18

DST Test Number: 3

### Pressure vs. Time









# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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JAN 16 2012

## Test Ticket

NO. 46222

Well Name & No. Hebb's 'A' #1-18 BY: \_\_\_\_\_ Test No. 1 Date 1/10/12  
 Company Cobalt Energy LLC Elevation 2462 KB 2452 GL \_\_\_\_\_  
 Address PO Box 8037 Wichita, KS 67208  
 Co. Rep / Geo. \_\_\_\_\_ Rig Va1 #6  
 Location: Sec. 18 Twp. 10S Rgo. 24W Co. Graham State KS

Interval Tested 3766-3830 Zone Tested AC "A-D"  
 Anchor Length 64 Drill Pipe Run 3758 Mud Wt. 8.9  
 Top Packer Depth 3761 Drill Collars Run \_\_\_\_\_ Vis 51  
 Bottom Packer Depth 3766 Wt. Pipe Run \_\_\_\_\_ WL 5.6  
 Total Depth 3830 Chlorides 800 ppm System LCM #2

Blow Description IF - BOB in 2 min  
ISF - BOB in 24 min  
IF - BOB in 4 1/2 min  
ISF - BOB in 15 min

Rec	Feet of	%gas	%oil	%water	%mud
500	60	25	75		
120	60 CM	30	25		45
120	6 WMC0	15	50	10	25
120	M CW			60	40
	1860 61P				

Rec Total 860 BHT 121 Gravity 36 API RW .12 @ 35 °F Chlorides 15000 ppm  
 (A) Initial Hydrostatic 1,848  Test 1125' T-On Location 20:20  
 (B) First Initial Flow 52  Jars \_\_\_\_\_ T-Started 21:00  
 (C) First Final Flow 188  Safety Joint 75' T-Open 1:43  
 (D) Initial Shut-In 842  Circ Sub \_\_\_\_\_ T-Pulled 5:13  
 (E) Second Initial Flow 200  Hourly Standby 3 1/4 hrs 825' T-Out 8:30  
 (F) Second Final Flow 362  Mileage 6.6 x 2 132 RT 184.80 Comments \_\_\_\_\_  
 (G) Final Shut-In 779  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,804  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 60  
 Sub Total 1709.80  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Butt D...

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  
JAN 16 2012

## Test Ticket

NO. 46223

BY: \_\_\_\_\_

Well Name & No. Hobbs 'A' #1-18 Test No. 2 Date 1/11/12  
 Company Cobalt Energy LLC Elevation 2462 KB 2452 GL  
 Address PO Box 8037 Wichita, KS 67208  
 Co. Rep / Geo. \_\_\_\_\_ Rig Val #6  
 Location: Sec. 18 Twp. 10S Rge. 24w Co. Graham State KS

Interval Tested 3892-3960 Zone Tested KC "H-J"  
 Anchor Length 68 Drill Pipe Run 3885 Mud Wt. 9.3  
 Top Packer Depth 3887 Drill Collars Run — Vis 47  
 Bottom Packer Depth 3892 Wt. Pipe Run — WL 6.0  
 Total Depth 3960 Chlorides 1,600 ppm System LCM 1

Blow Description IF-BOB in 2 min  
FSI - west surface blow died in 24 min  
FF-BOB in 1 min  
FSI - 2 in blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>60</u>	<u>13</u>	<u>85</u>		
<u>60</u>	<u>SEMCO</u>	<u>5</u>	<u>70</u>		<u>25</u>
Rec	Feet of <u>360 FT ETP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 120 BHT 116 Gravity 33 API RW @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1,915</u>	<input checked="" type="checkbox"/> Test <u>1125</u>	T-On Location <u>23:50</u>
(B) First Initial Flow <u>21</u>	<input type="checkbox"/> Jars _____	T-Started <u>00:10</u>
(C) First Final Flow <u>39</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>3:45</u>
(D) Initial Shut-In <u>1,243</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>7:45</u>
(E) Second Initial Flow <u>41</u>	<input checked="" type="checkbox"/> Hourly Standby <u>1.5 hrs 150</u>	T-Out <u>10:15</u>
(F) Second Final Flow <u>65</u>	<input checked="" type="checkbox"/> Mileage <u>66x2 132 RT 184.80</u>	Comments _____
(G) Final Shut-In <u>1,247</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>4,881</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90

Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

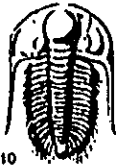
Sub Total 1534.80

Sub Total 1534.80

MP/DST Disc't \_\_\_\_\_

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

RECEIVED  
JAN 16 2012

## Test Ticket

NO. 46224

Well Name & No. Hobbs 'A' #178 Test No. 3 Date 1/12/12  
 Company Cobalt Energy LLC Elevation 2462 KB 2452 GL  
 Address PO Box 8037, Wichita, KS 67208  
 Co. Rep / Geo. \_\_\_\_\_ Rig Val #6  
 Location: Sec. 18 Twp. 10S Rge. 24w Co. Graham State KS

Interval Tested 3964-3980 Zone Tested KC"K"  
 Anchor Length 16 Drill Pipe Run 3949 Mud Wt. 9.3  
 Top Packer Depth 3959 Drill Collars Run \_\_\_\_\_ Vis 47  
 Bottom Packer Depth 3964 Wt. Pipe Run \_\_\_\_\_ WL 6.0  
 Total Depth 3980 Chlorides 1,600 ppm System LCM 1

Blow Description FF-BOB in 1/2 min  
ISF - 5 1/2 in blow  
FF-BOB in 1 min  
FSL - 9 in blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>6.0</u>	<u>15</u>	<u>85</u>		
<u>60</u>	<u>6SWC0</u>	<u>10</u>	<u>80</u>	<u>10</u>	
<u>120</u>	<u>6OCW</u>	<u>10</u>	<u>20</u>	<u>70</u>	
<u>60</u>	<u>5OCW</u>		<u>5</u>	<u>95</u>	
<u>1335</u>	<u>water</u>	<u>2400/62P</u>			

Rec Total 1640 BHT 125 Gravity 35 API RW .14 @ 32 °F Chlorides 135,000 ppm

(A) Initial Hydrostatic 6959  Test 1125 T-On Location 16:50  
 (B) First Initial Flow 139  Jars \_\_\_\_\_ T-Started 17:10  
 (C) First Final Flow 425  Safety Joint 75 T-Open 19:45  
 (D) Initial Shut-In 6160  Circ Sub \_\_\_\_\_ T-Pulled 23:45  
 (E) Second Initial Flow 488  Hourly Standby 14-100 T-Out 3:00  
 (F) Second Final Flow 762  Mileage 66x2 132 or 184.80 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,100  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 6923  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60 90  
 Final Shut-In \_\_\_\_\_

Sub Total 1484.80 MP/DST Disc't \_\_\_\_\_

Approved By Greg Baker Our Representative [Signature]

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.

ALLIED CEMENTING CO., LLC. 035203

REMIT TO PO BOX 31 RUSSELL, KANSAS 67663

VICE POINT: RUSSELL KS

DATE 1-7-12 SEC 18 TWP 10 S RANGE 24 W CALLED OUT ON LOCATION JOB START 2:15 PM JOB FINISH 2:10 PM

CONTRACTOR VAL #16 OWNER TYPE OF JOB 5 1/2" FRAC CEMENT AMOUNT ORDERED 150 ST 32 CC 28 GR

PUMP TRUCK CEMENTER Bob SMITH # 409 HELPER Todd BULK TRUCK # 401 DRIVER CODY BULK TRUCK # DRIVER

Table with 3 columns: COMMON, POZ MIX, GEL, CHLORIDE, ASC, CC, HANDLING, MILEAGE. Includes handwritten values like 150 @ 16.25 = 2437.50.

REMARKS: CMT CIRCULATED TO SURFACE

Table with 3 columns: DEPTH OF JOB, PUMP TRUCK CHARGE, EXTRA FOOTAGE, MILEAGE, MANIFOLD, L&V mileage. Includes handwritten values like 226.37 FT, 1125.00.

CHARGE TO: COBALT ENERGY STREET CITY STATE ZIP

Table with 3 columns: PLUG & FLOAT EQUIPMENT. Includes handwritten TOTAL 0.

To Allied Cementing Co., 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.

PRINTED NAME Randy D Martin SIGNATURE Randy D Martin

Table with 3 columns: SALES TAX (If Any) 210.81, TOTAL CHARGES 6543.15, DISCOUNT 20/50 IF PAID IN 30 DAYS 1989.75

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 Randy D Martin SIGNATURE Randy D Martin

Table with 3 columns: TOTAL 0, SALES TAX (If Any), TOTAL CHARGES 6543.15, DISCOUNT IF PAID IN 30 DAYS

# ALLIED CEMENTING CO., LLC. 034541

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

SERVICE POINT:

Russell, KS

DATE <u>1-14-2012</u>	SEC <u>18</u>	TWP <u>10 S</u>	RANGE <u>24 W</u>	CALLED OUT	ON LOCATION	<u>Bottom</u>	<u>TOP</u>
LEASE # <u>11888 "A"</u>	WELL # <u>1-18</u>	LOCATION <u>St. Peter, KS. 1 1/2 E 4 S 10 N</u>		COUNTY <u>Graham</u>	STATE <u>KANSAS</u>	JOB START <u>8:30 AM</u>	JOB FINISH <u>12:30 PM</u>
OLD OR NEW (Circle one)							

CONTRACTOR Val. Dalg. Rig # 6  
 TYPE OF JOB Production string (D.V)  
 HOLE SIZE 7 7/8 T.D. 4050  
 CASING SIZE 5 1/2 NEW DEPTH 4042  
 TUBING SIZE 15.50" CSO DEPTH  
WELL PIP LATCH Down Plug DEPTH 155' @ 4021  
 TOOL DV Tool @ DEPTH 2063  
 PRES. MAX MINIMUM  
 MBAS. LINE SHOR JOINT 21'  
 CEMENT LEFT IN CSO 21'  
 PERFS. Top  
 DISPLACEMENT 19 / 100L 95 / 100L  
 EQUIPMENT

OWNER  
 CEMENT  
 AMOUNT ORDERED 150 SX Comm. 10% Belt  
228 gal 5# Gilsomite 338 SX  
400 SX Allied lite / wt. VAFED-500  
500 GAL WFR-2 100 PWSH Per SX  
 COMMON 150 SX @ 16.25 2437.50  
 POZMIX  
 GEL 3 SX @ 21.25 63.75  
 CHLORIDE  
 ASC  
400 SX Lite / wt @ 15.00 6000.00  
FLO-Seal 100 LBS @ 2.70 270.00  
Gilsomite 205 LBS @ .89 182.55  
500 GAL WFR-2 @ 1.27 635.00  
SALT 15 SX @ 23.25 348.75  
 HANDLING 568 @ 2.25 1278.00  
 MILEAGE 65 / 568 / 11 @ 4061.30  
 TOTAL 15,304.95

PUMP TRUCK CEMENTER Glenn  
 # 417 HELPER Woody  
 BULK TRUCK  
 # 378 DRIVER Ron  
 BULK TRUCK  
 # 481 DRIVER Tony

TOTAL 15,304.95

REMARKS:  
 Ran a total of 97 hrs / 5 days (15.50" drop after start ball.)  
 Set @ 4042 Circulate 1 hr mix and flush.  
 Cement w/ 150 SX Comm. 10% belt + 228 gal 5# Gilsomite / SX  
 Clear line, Release, Latch DV Plug, & Displace  
 47 gal @ 45 / 100 min + 974 gal @ 45  
 Land Plug @ 2000 ft, Release Pressure + Plug (Hand)  
 Drop DV Tool (part) + ORN @ 1000 ft.  
 Circulate 3 hrs. + Cement w/ 350 SX Lite / wt  
 Release TOP DV TOOL Plug + Displace  
 H2O, Land Plug @ 2000 ft TO CLOSE DV TOOL

SERVICE  
 DEPTH OF JOB 4042  
 PUMP TRUCK CHARGE 2405.00  
 EXTRA FOOTAGE  
 MILEAGE 65 KM @ 7.00 455.00  
 MANIFOLD  
 Bal 65 LV WT @ 4.00 260.00  
 TOTAL 3120.00

CHARGE TO: COBALT ENERGY LTD.  
 STREET

CITY STATE ZIP  
 \*Cement DID CIRCULATE TO SURFACE.

PLUG & FLOAT EQUIPMENT  
 W FIAT Shoe 245.00 245.00  
 IR LATCH Down Plug Assy @ 194.00 194.00  
 W 4-Turn Centralizers @ 60.00 240.00  
 W 8-Ring Centralizers @ 34.00 272.00  
 W 3-Basket's @ 136.00 708.00  
 IR 1-D-V 2-Stage Tool @ 283.00  
 TOTAL 4491.00

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SALES TAX (if Any)  
 TOTAL CHARGES 22915.95  
 DISCOUNT 30/50 IF PAID IN 30 DAYS

PRINTED NAME Pat Gerslender  
 SIGNATURE Pat Gerslender