



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1140538
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: _____



1140538

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
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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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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

May 20, 2013

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

Re: ACO1
API 15-039-21168-00-00
LMB 'A' 1-1
SE/4 Sec.01-02S-28W
Decatur 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
Wichita KS 67208

ATTN: Terry McLeod

LMB "A" #1-1

1-2s-28w Decatur,KS

Start Date: 2013.04.15 @ 18:54:00

End Date: 2013.04.16 @ 02:33:00

Job Ticket #: 52174 DST #: 1

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

Printed: 2013.04.23 @ 09:59:11



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52174

DST#: 1

ATTN: Terry McLeod

Test Start: 2013.04.15 @ 18:54:00

GENERAL INFORMATION:

Formation: **Tor - D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:41:00

Time Test Ended: 02:33:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 66

Interval: 3367.00 ft (KB) To 3460.00 ft (KB) (TVD)

Reference Elevations: 2556.00 ft (KB)

Total Depth: 3460.00 ft (KB) (TVD)

2553.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 3.00 ft

Serial #: 8520 Outside

Press @ Run Depth: 151.53 psig @ 3437.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.15

End Date:

2013.04.16

Last Calib.:

2013.04.16

Start Time: 19:04:00

End Time:

02:33:00

Time On Btm:

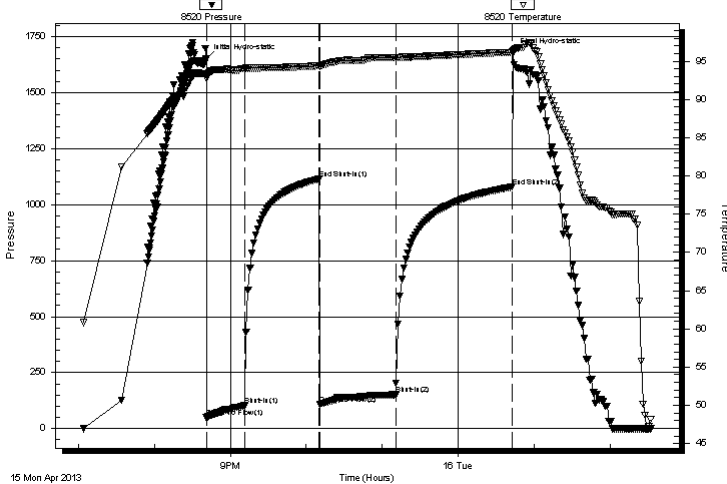
2013.04.15 @ 20:40:50

Time Off Btm:

2013.04.16 @ 00:43:30

TEST COMMENT: 30 - IF- 4" blow
60 - IS- No return
60 - FF- 1" blow
90 - FS- No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1652.16	93.36	Initial Hydro-static
1	48.46	92.77	Open To Flow (1)
31	102.53	94.05	Shut-In(1)
90	1114.61	94.39	End Shut-In(1)
90	108.44	94.27	Open To Flow (2)
150	151.53	95.49	Shut-In(2)
242	1078.66	96.18	End Shut-In(2)
243	1676.86	96.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
226.00	Mud, show of oil, 100%M	1.48

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52174

DST#: 1

ATTN: Terry McLeod

Test Start: 2013.04.15 @ 18:54:00

Tool Information

Drill Pipe:	Length: 3180.00 ft	Diameter: 3.80 inches	Volume: 44.61 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 45.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3367.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	93.00 ft			
Tool Length:	116.00 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			3345.00	
Shut In Tool	5.00			3350.00	
Hydraulic tool	5.00			3355.00	
Safety Joint	3.00			3358.00	
Packer	5.00			3363.00	23.00 Bottom Of Top Packer
Packer	4.00			3367.00	
Stubb	1.00			3368.00	
Perforations	5.00			3373.00	
Change Over Sub	1.00			3374.00	
Drill Pipe	62.00			3436.00	
Change Over Sub	1.00			3437.00	
Recorder	0.00	8354	Inside	3437.00	
Recorder	0.00	8520	Outside	3437.00	
Perforations	20.00			3457.00	
Bullnose	3.00			3460.00	93.00 Bottom Packers & Anchor

Total Tool Length: 116.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52174

DST#: 1

ATTN: Terry McLeod

Test Start: 2013.04.15 @ 18:54:00

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:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
226.00	Mud, show of oil, 100%M	1.476

Total Length: 226.00 ft Total Volume: 1.476 bbl

Num Fluid Samples: 0

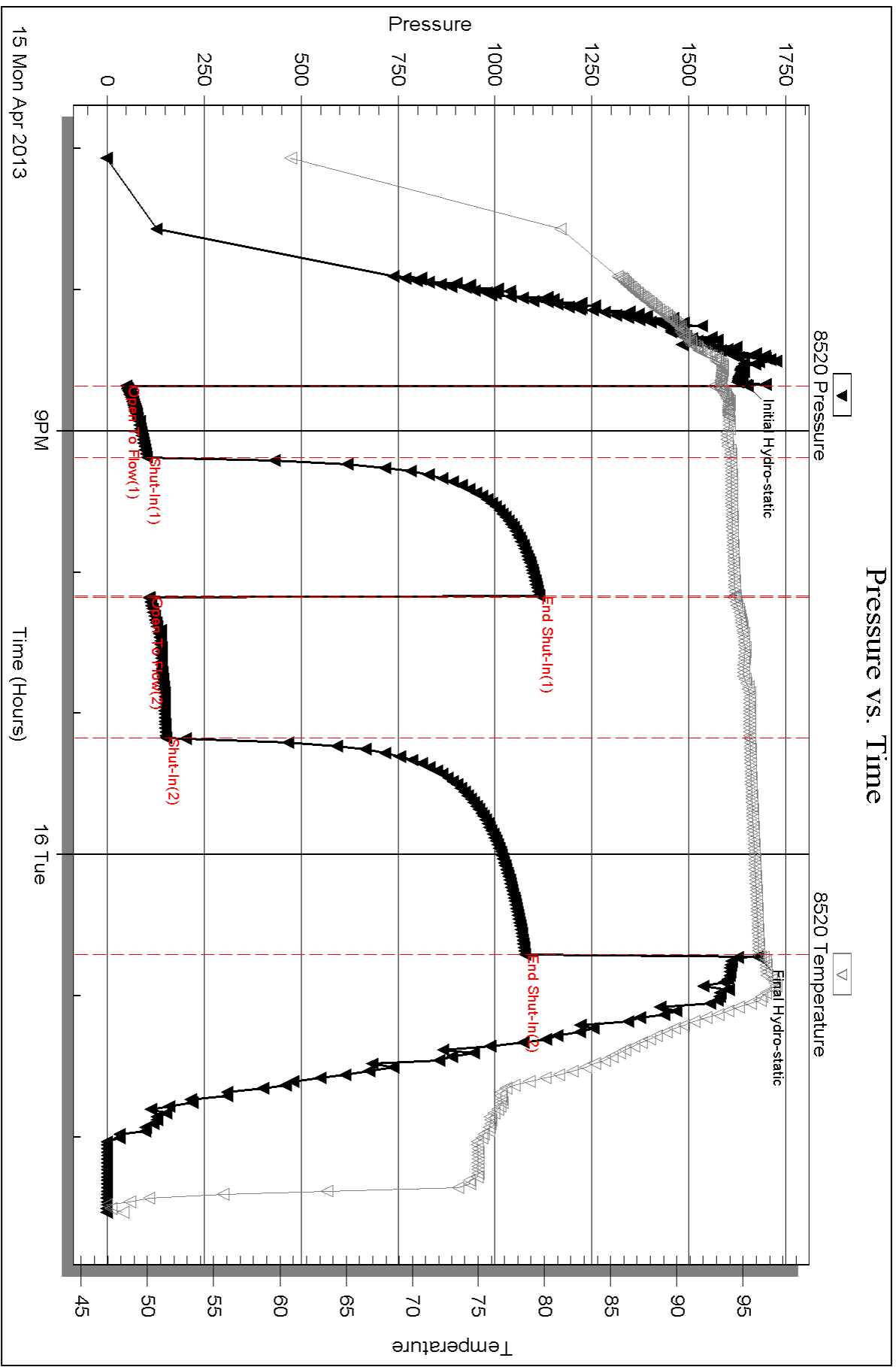
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



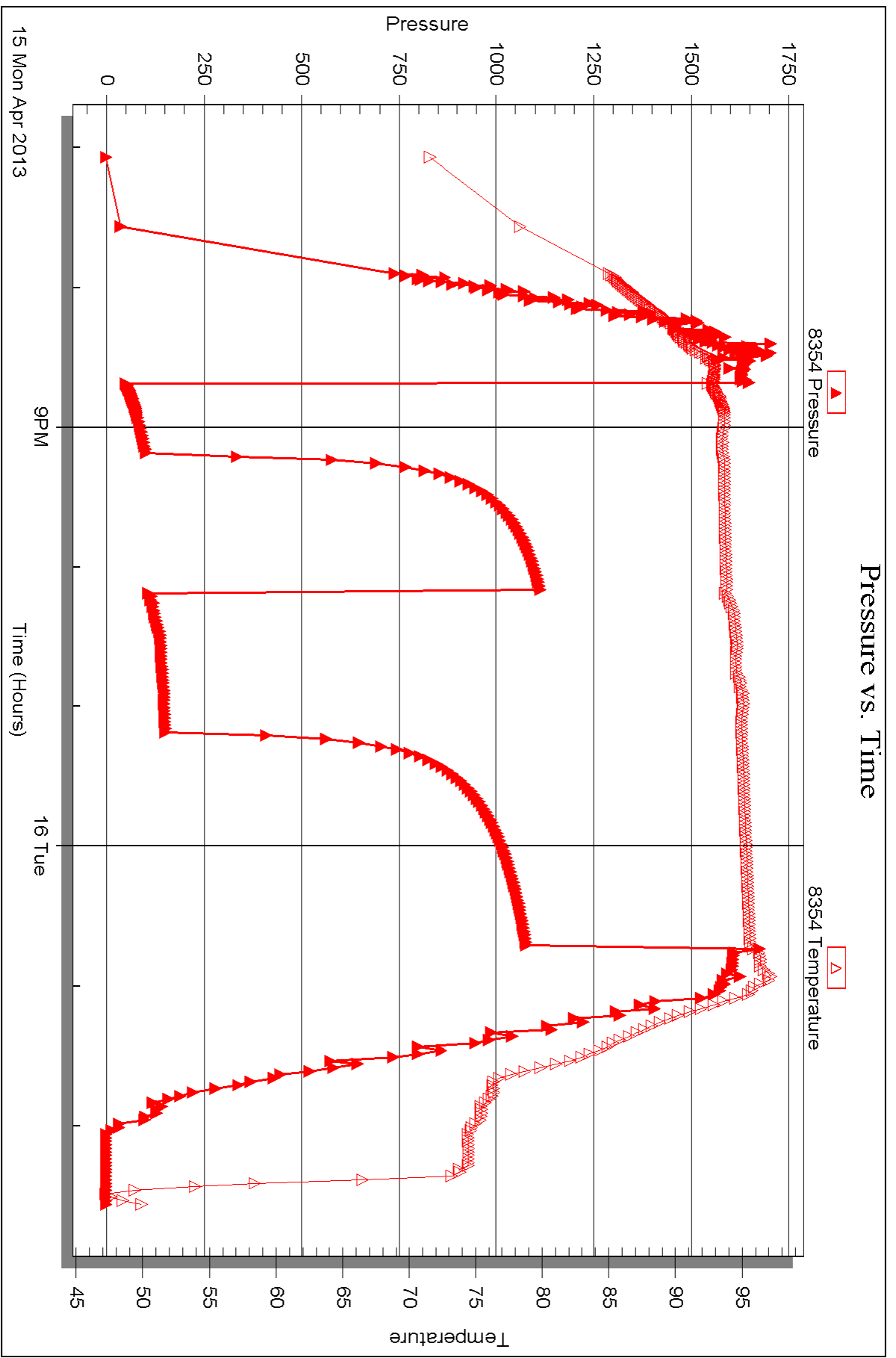
Serial #: 8354

Inside

Cobalt Energy LLC

LMB "A" #1-1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12
Wichita KS 67208

ATTN: Terry McLeod

LMB "A" #1-1

1-2s-28w Decatur,KS

Start Date: 2013.04.16 @ 08:31:00

End Date: 2013.04.16 @ 16:56:00

Job Ticket #: 52175 DST #: 2

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

Printed: 2013.04.23 @ 09:58:28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52175

DST#: 2

ATTN: Terry McLeod

Test Start: 2013.04.16 @ 08:31:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:57:30

Time Test Ended: 16:56:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 66

Interval: 3462.00 ft (KB) To 3507.00 ft (KB) (TVD)

Reference Elevations: 2556.00 ft (KB)

Total Depth: 3507.00 ft (KB) (TVD)

2553.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 3.00 ft

Serial #: 8520 Outside

Press @ Run Depth: 61.68 psig @ 3504.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.16

End Date:

2013.04.16

Last Calib.:

2013.04.16

Start Time: 08:41:00

End Time:

16:56:00

Time On Btm:

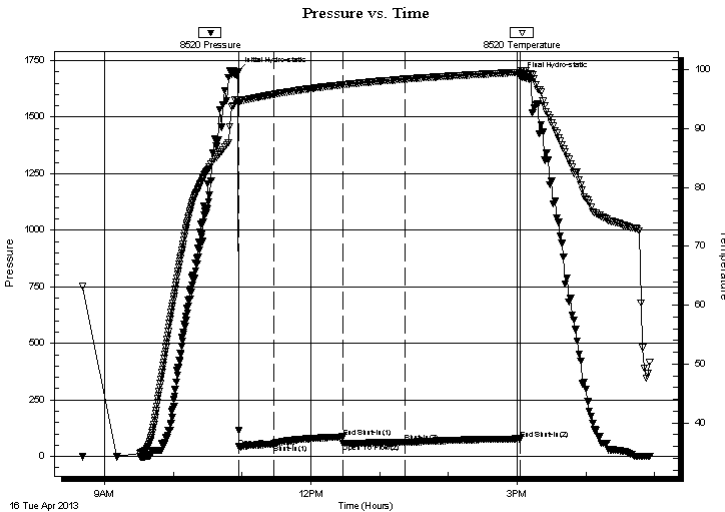
2013.04.16 @ 10:56:30

Time Off Btm:

2013.04.16 @ 15:03:00

TEST COMMENT: 30 - IF- 2 1/4" blow
60 - IS- No return
60 - FF- 1/4" blow
90 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1700.86	94.89	Initial Hydro-static
1	42.38	94.84	Open To Flow (1)
31	54.68	95.80	Shut-In(1)
91	86.76	97.42	End Shut-In(1)
92	57.35	97.43	Open To Flow (2)
146	61.68	98.38	Shut-In(2)
246	77.80	99.54	End Shut-In(2)
247	1679.33	99.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	HOCM, 40%O, 60%M	0.30
4.00	Free Oil	0.02

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

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52175

DST#: 2

ATTN: Terry McLeod

Test Start: 2013.04.16 @ 08:31:00

Tool Information

Drill Pipe:	Length: 3264.00 ft	Diameter: 3.80 inches	Volume: 45.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 46.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3462.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	68.00 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			3440.00	
Shut In Tool	5.00			3445.00	
Hydraulic tool	5.00			3450.00	
Safety Joint	3.00			3453.00	
Packer	5.00			3458.00	23.00 Bottom Of Top Packer
Packer	4.00			3462.00	
Stubb	1.00			3463.00	
Perforations	5.00			3468.00	
Change Over Sub	1.00			3469.00	
Drill Pipe	31.00			3500.00	
Change Over Sub	1.00			3501.00	
Perforations	3.00			3504.00	
Recorder	0.00	8354	Inside	3504.00	
Recorder	0.00	8520	Outside	3504.00	
Bullnose	3.00			3507.00	45.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52175

DST#: 2

ATTN: Terry McLeod

Test Start: 2013.04.16 @ 08:31:00

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:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	HOCM, 40%O, 60%M	0.295
4.00	Free Oil	0.020

Total Length: 64.00 ft Total Volume: 0.315 bbl

Num Fluid Samples: 0

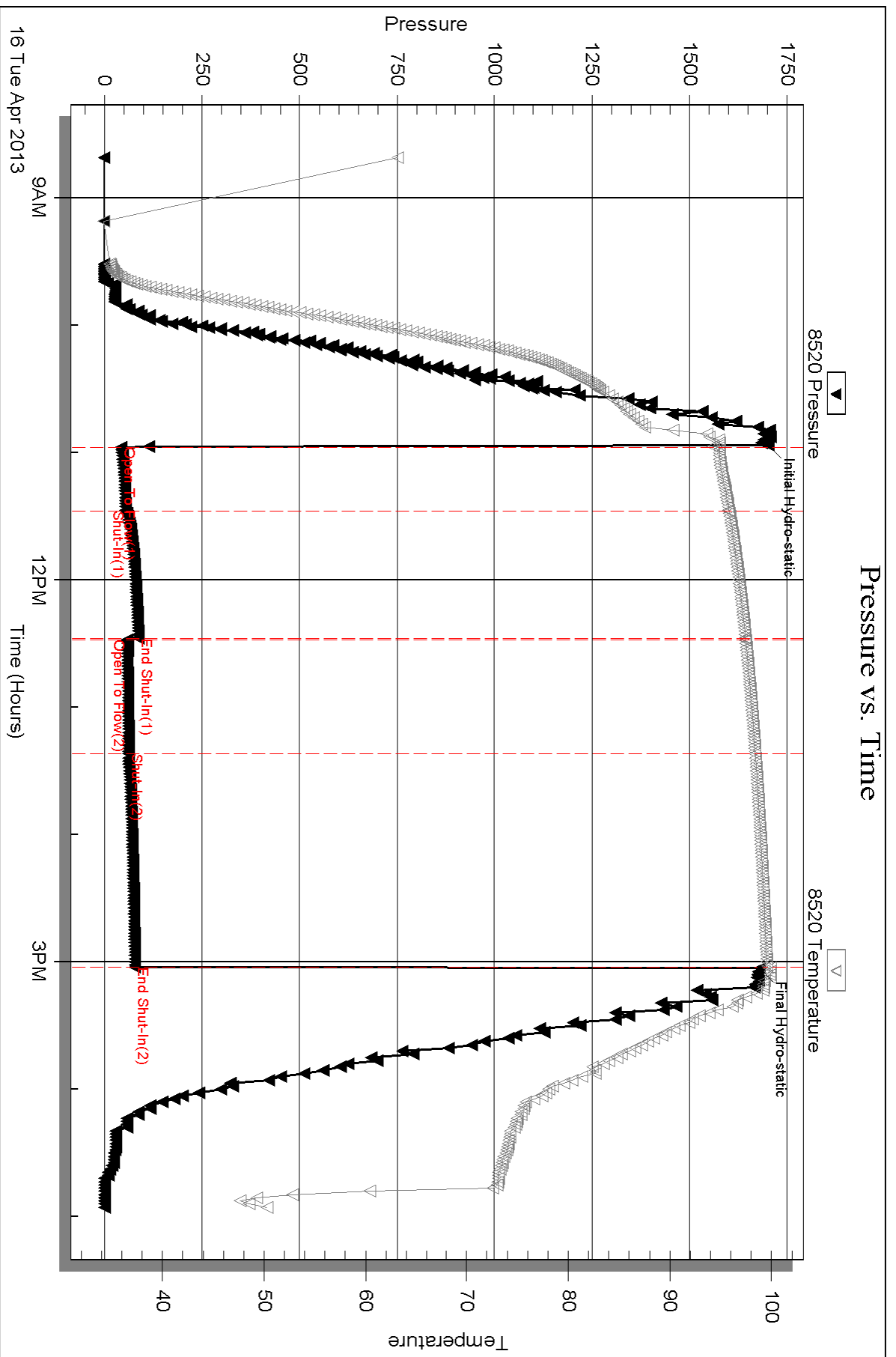
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



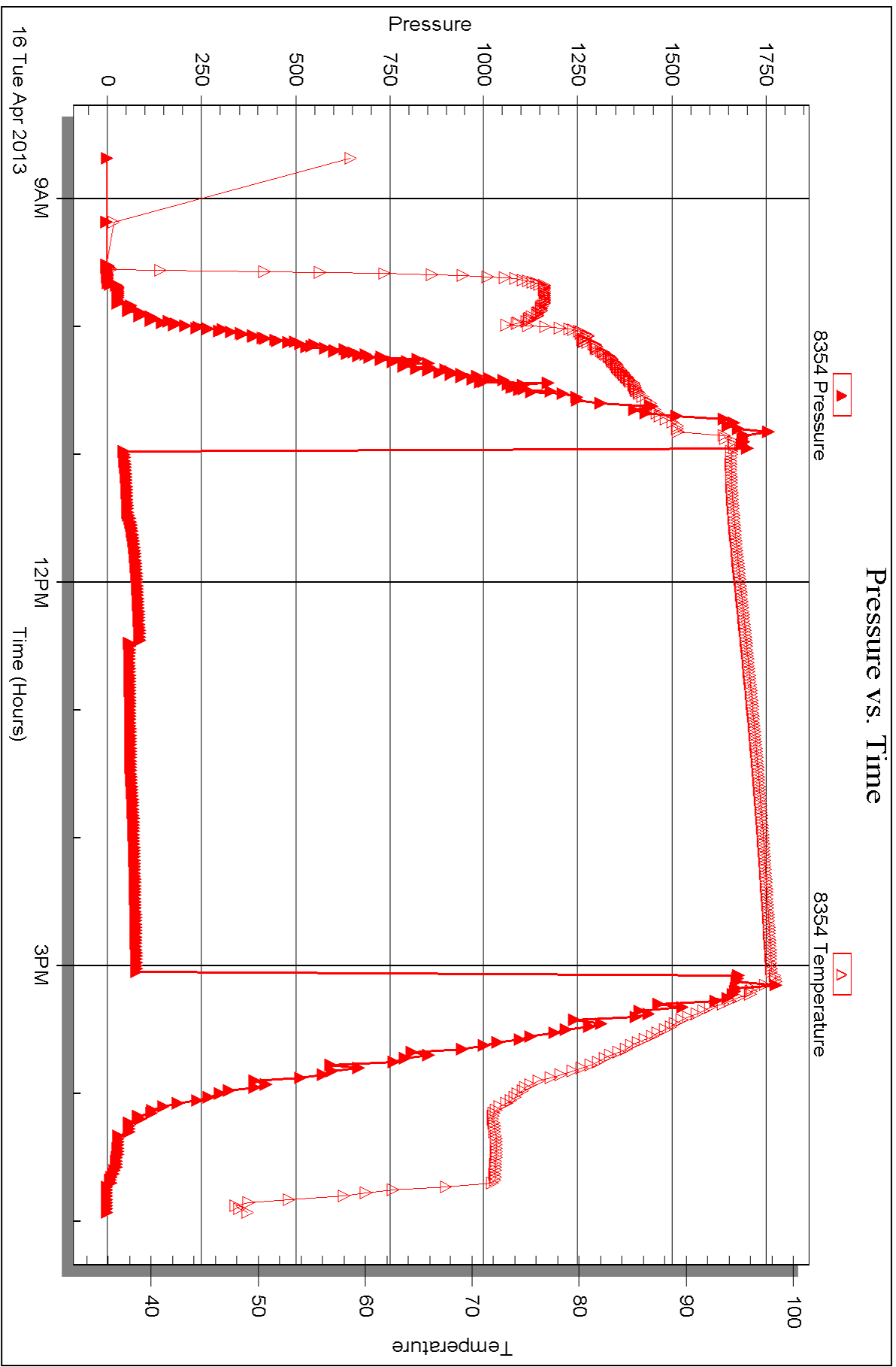
Serial #: 8354

Inside

Cobalt Energy LLC

LMB "A" #1-1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12
Wichita KS 67208

ATTN: Terry McLeod

LMB "A" #1-1

1-2s-28w Decatur,KS

Start Date: 2013.04.17 @ 00:58:00

End Date: 2013.04.17 @ 07:39:30

Job Ticket #: 52176 DST #: 3

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

Printed: 2013.04.23 @ 09:57:51



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52176

DST#: 3

ATTN: Terry McLeod

Test Start: 2013.04.17 @ 00:58:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:29:30

Time Test Ended: 07:39:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 66

Interval: 3506.00 ft (KB) To 3575.00 ft (KB) (TVD)

Reference Elevations: 2556.00 ft (KB)

Total Depth: 3575.00 ft (KB) (TVD)

2553.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 3.00 ft

Serial #: 8520 Outside

Press @ Run Depth: 73.93 psig @ 3572.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.17

End Date:

2013.04.17

Last Calib.:

2013.04.17

Start Time: 01:08:00

End Time:

07:39:30

Time On Btm:

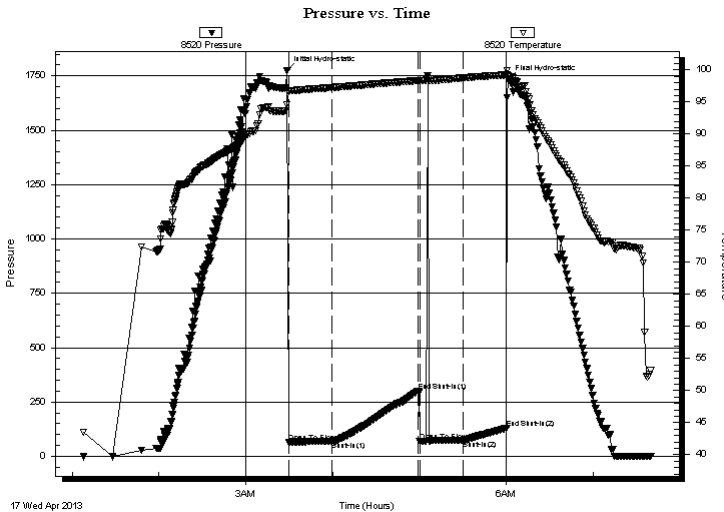
2013.04.17 @ 03:28:30

Time Off Btm:

2013.04.17 @ 06:01:00

TEST COMMENT: 30 - IF- 1/4" blow , died in 8 Minutes
60 - IS- No return
30 - FF- Surged and died. Waited for 5 Min. flushed tool, surged and died
30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1775.43	94.62	Initial Hydro-static
1	64.49	96.62	Open To Flow (1)
31	68.45	97.26	Shut-In(1)
91	300.65	98.34	End Shut-In(1)
92	70.13	98.34	Open To Flow (2)
122	73.93	98.77	Shut-In(2)
152	129.78	99.24	End Shut-In(2)
153	1731.95	99.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud, with little show of oil, 100%M	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

115 S. Belmont #12
Wichita KS 67208

ATTN: Terry McLeod

1-2s-28w Decatur, KS

LMB "A" #1-1

Job Ticket: 52176

DST#: 3

Test Start: 2013.04.17 @ 00:58:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:29:30

Time Test Ended: 07:39:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 66

Interval: 3506.00 ft (KB) To 3575.00 ft (KB) (TVD)

Total Depth: 3575.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2556.00 ft (KB)

2553.00 ft (CF)

KB to GR/CF: 3.00 ft

Serial #: 8354

Inside

Press @ Run Depth: psig @ 3572.00 ft (KB)

Start Date: 2013.04.17

End Date: 2013.04.17

Start Time: 01:08:00

End Time: 07:40:00

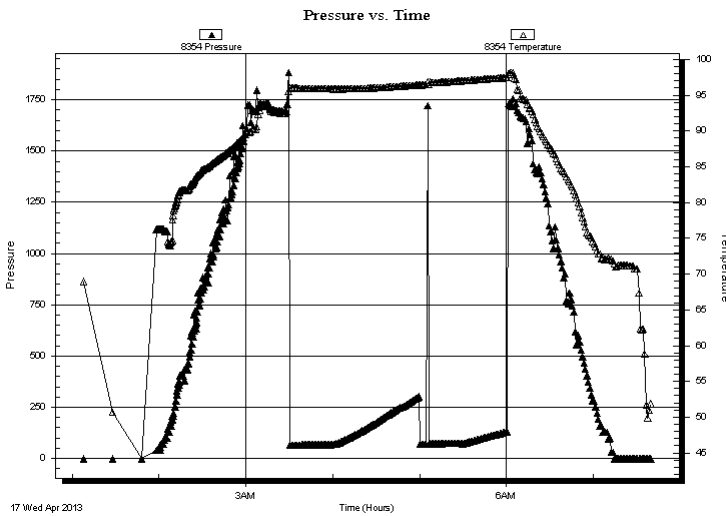
Capacity: 8000.00 psig

Last Calib.: 2013.04.17

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- 1/4" blow , died in 8 Minutes
60 - IS- No return
30 - FF- Surged and died. Waited for 5 Min. flushed tool, surged and died
30 - FS- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud, with little show of oil, 100%M	0.07

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

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52176

DST#: 3

ATTN: Terry McLeod

Test Start: 2013.04.17 @ 00:58:00

Tool Information

Drill Pipe:	Length: 3316.00 ft	Diameter: 3.80 inches	Volume: 46.51 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 47.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3506.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3484.00	
Shut In Tool	5.00			3489.00	
Hydraulic tool	5.00			3494.00	
Safety Joint	3.00			3497.00	
Packer	5.00			3502.00	23.00 Bottom Of Top Packer
Packer	4.00			3506.00	
Stubb	1.00			3507.00	
Perforations	1.00			3508.00	
Change Over Sub	1.00			3509.00	
Drill Pipe	62.00			3571.00	
Change Over Sub	1.00			3572.00	
Recorder	0.00	8354	Inside	3572.00	
Recorder	0.00	8520	Outside	3572.00	
Bullnose	3.00			3575.00	69.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52176

DST#: 3

ATTN: Terry McLeod

Test Start: 2013.04.17 @ 00:58:00

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:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	Mud, with little show of oil, 100%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

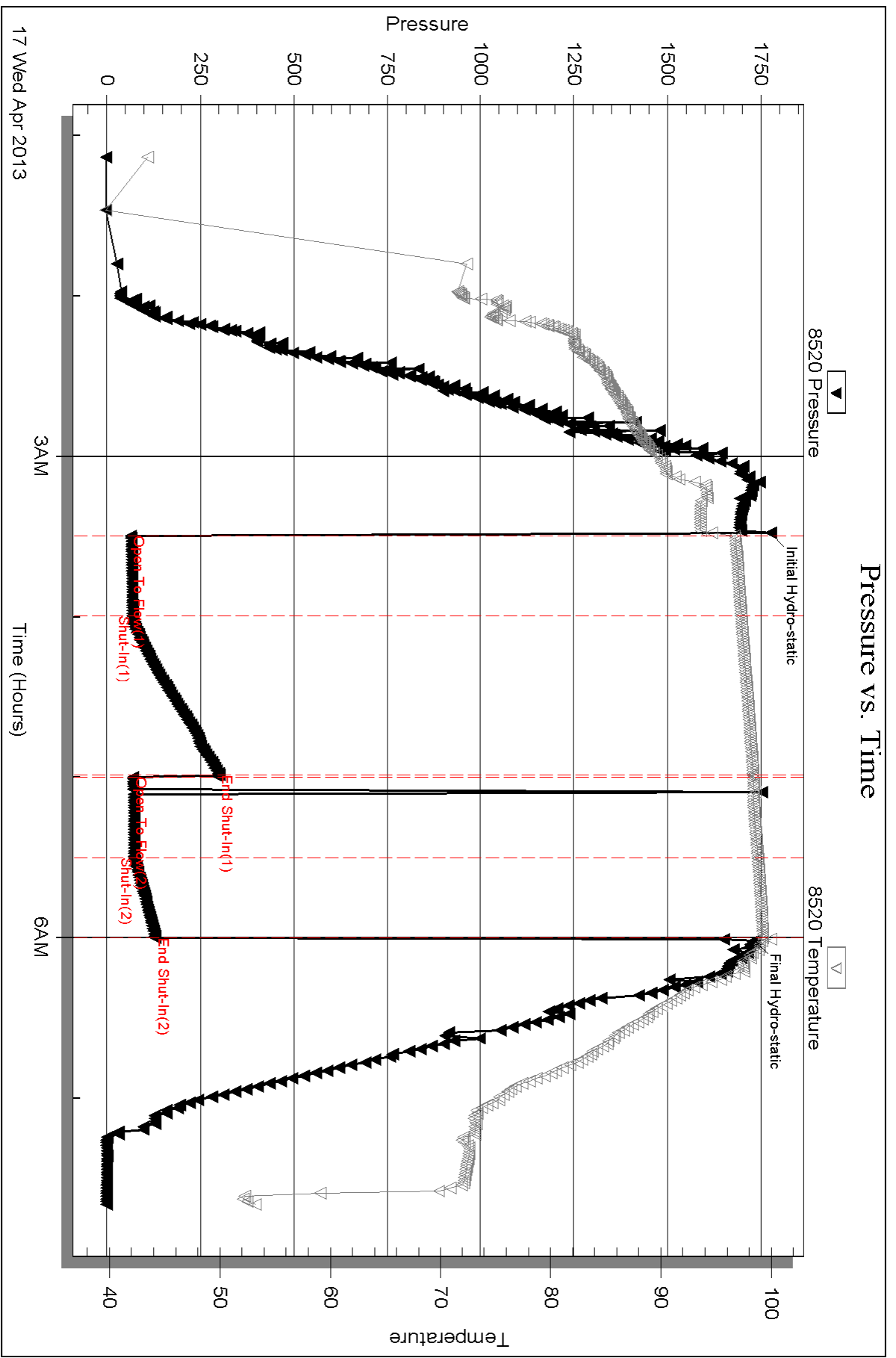
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



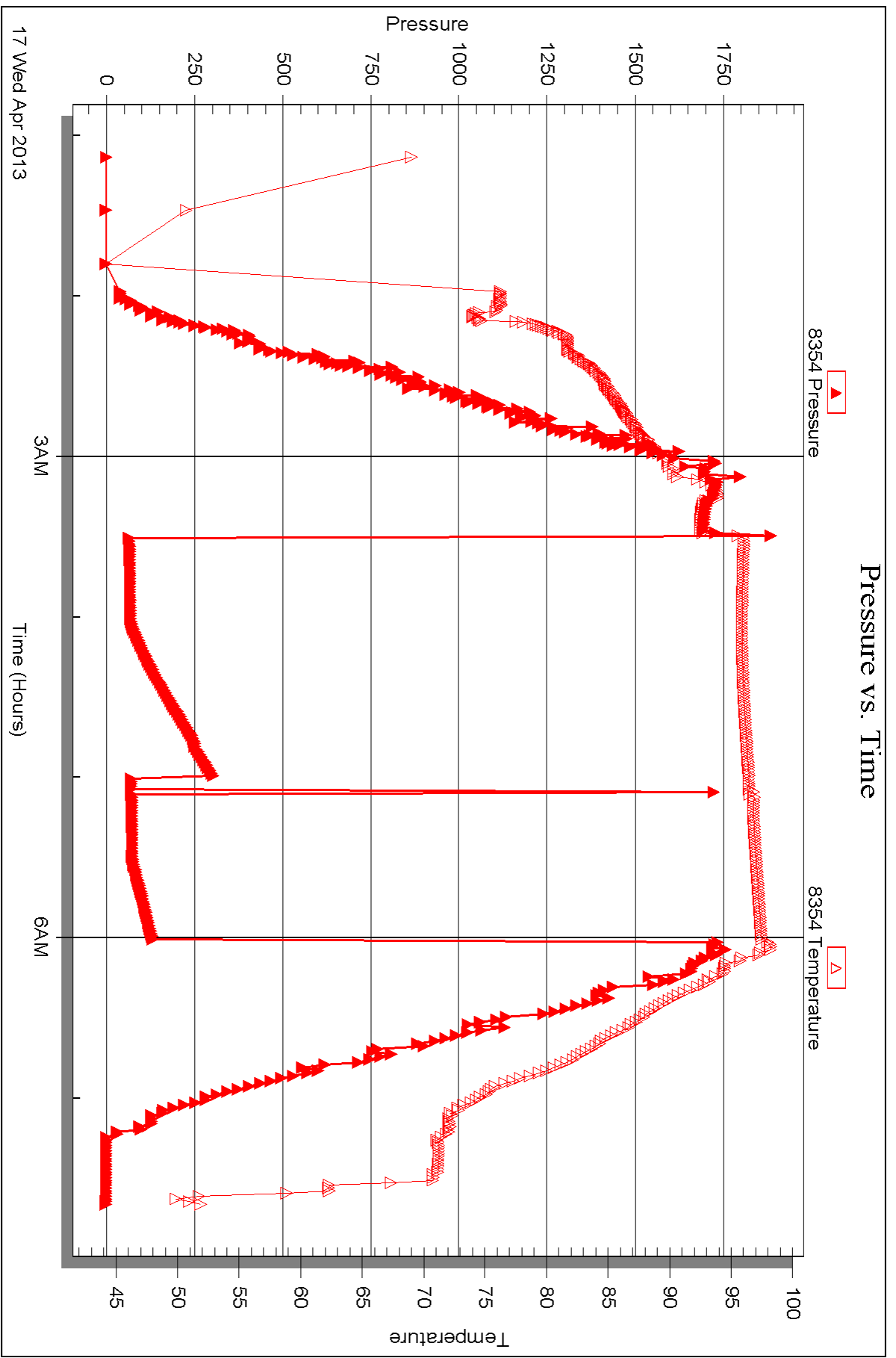
Serial #: 8354

Inside

Cobalt Energy LLC

LMB "A" #1-1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12
Wichita KS 67208

ATTN: Terry McLeod

LMB "A" #1-1

1-2s-28w Decatur,KS

Start Date: 2013.04.17 @ 13:54:00

End Date: 2013.04.17 @ 20:23:00

Job Ticket #: 52177 DST #: 4

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

Printed: 2013.04.23 @ 09:57:06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52177

DST#: 4

ATTN: Terry McLeod

Test Start: 2013.04.17 @ 13:54:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:08:30

Time Test Ended: 20:23:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 66

Interval: 3572.00 ft (KB) To 3610.00 ft (KB) (TVD)

Reference Elevations: 2556.00 ft (KB)

Total Depth: 3610.00 ft (KB) (TVD)

2553.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 3.00 ft

Serial #: 8520 Outside

Press @ Run Depth: 95.03 psig @ 3607.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.17

End Date:

2013.04.17

Last Calib.:

2013.04.17

Start Time: 14:04:00

End Time:

20:23:00

Time On Btm:

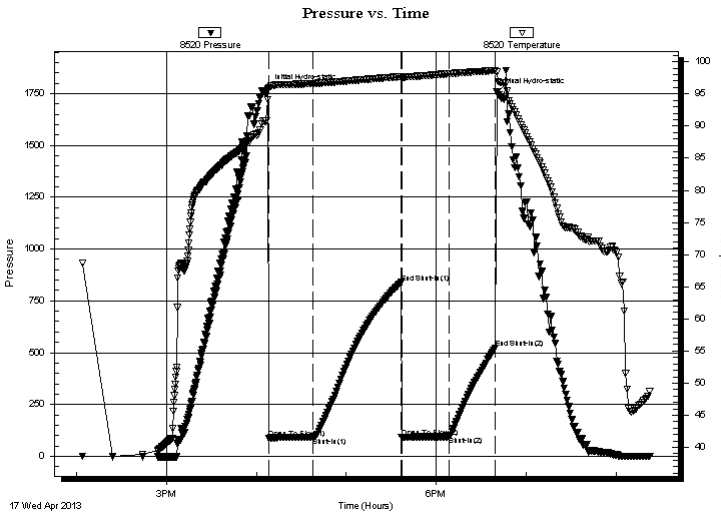
2013.04.17 @ 16:07:30

Time Off Btm:

2013.04.17 @ 18:40:30

TEST COMMENT: 30 - IF- 4.5" blow in 13 Min. died back to 3"
60 - IS- No return
30 - FF- Surged and died
30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1772.40	94.07	Initial Hydro-static
1	88.96	95.97	Open To Flow (1)
31	92.47	96.61	Shut-In(1)
89	837.97	97.68	End Shut-In(1)
90	92.48	97.29	Open To Flow (2)
121	95.03	98.14	Shut-In(2)
152	521.64	98.65	End Shut-In(2)
153	1756.15	98.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud, with show of oil, 100%M	0.59

* 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

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52177

DST#: 4

ATTN: Terry McLeod

Test Start: 2013.04.17 @ 13:54:00

Tool Information

Drill Pipe:	Length: 3380.00 ft	Diameter: 3.80 inches	Volume: 47.41 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 48.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3572.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3550.00	
Shut In Tool	5.00			3555.00	
Hydraulic tool	5.00			3560.00	
Safety Joint	3.00			3563.00	
Packer	5.00			3568.00	23.00 Bottom Of Top Packer
Packer	4.00			3572.00	
Stubb	1.00			3573.00	
Perforations	1.00			3574.00	
Change Over Sub	1.00			3575.00	
Drill Pipe	31.00			3606.00	
Change Over Sub	1.00			3607.00	
Recorder	0.00	8354	Inside	3607.00	
Recorder	0.00	8520	Outside	3607.00	
Bullnose	3.00			3610.00	38.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

1-2s-28w Decatur, KS

115 S. Belmont #12
Wichita KS 67208

LMB "A" #1-1

Job Ticket: 52177

DST#: 4

ATTN: Terry McLeod

Test Start: 2013.04.17 @ 13:54:00

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:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Mud, w ith show of oil, 100%M	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

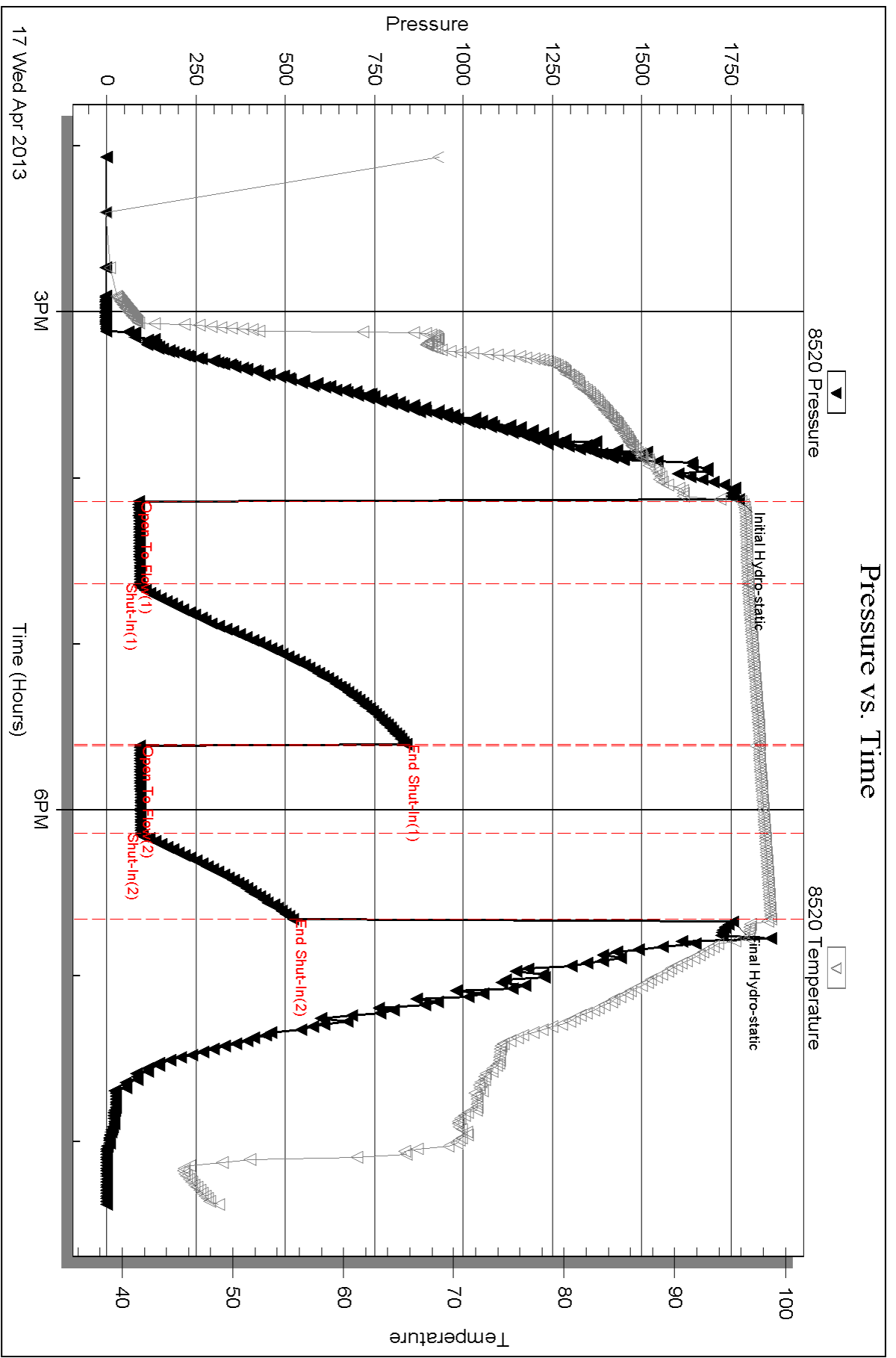
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



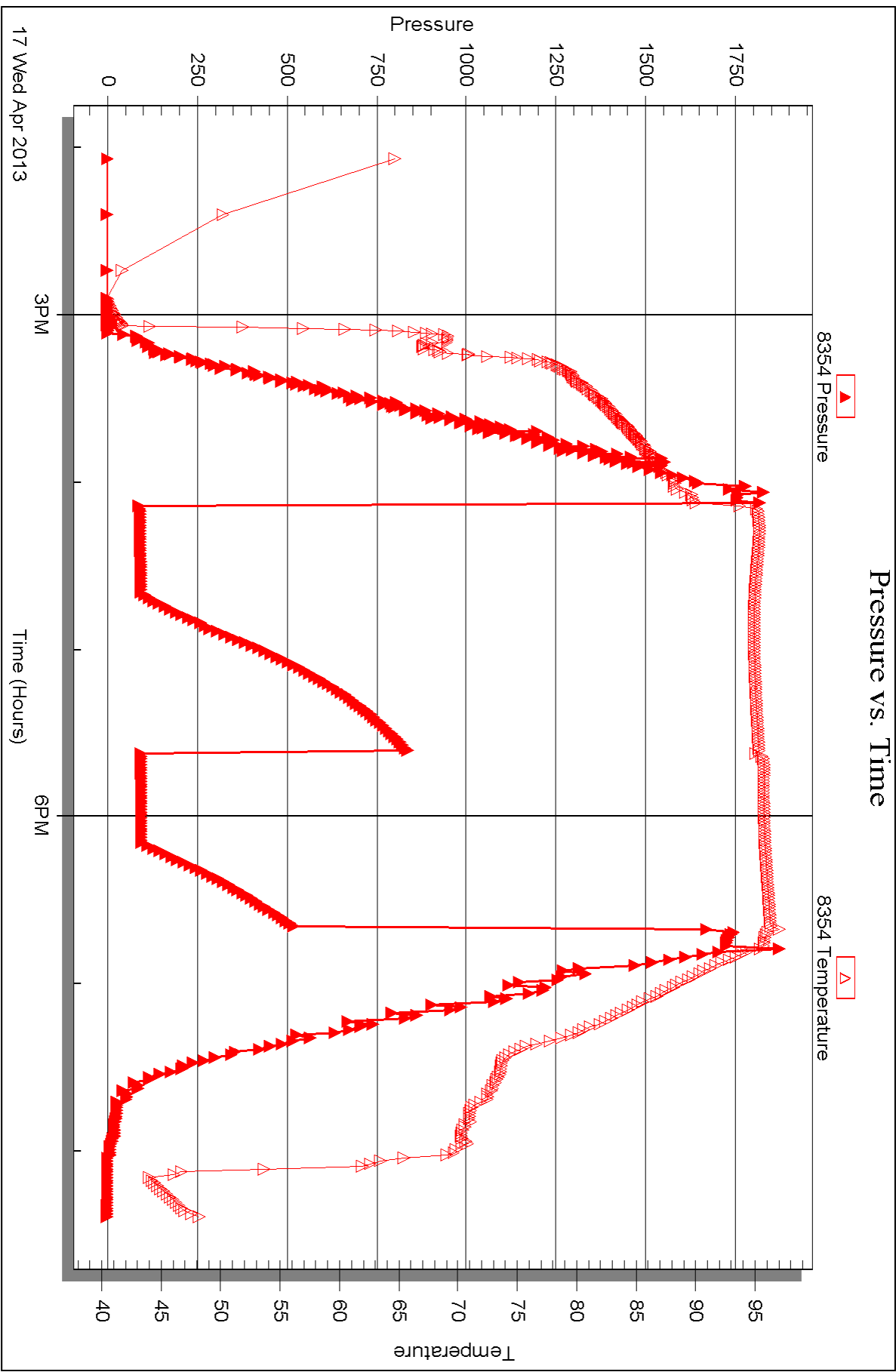
Serial #: 8354

Inside

Cobalt Energy LLC

LMB "A" #1-1

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52174

Well Name & No. LMB "A" 1-1 Test No. 1 Date 4-15-13
 Company Cobalt Energy LLC Elevation 2556 KB 2553 GL
 Address 115 S. Belmont #12, Wichita KS, 67208
 Co. Rep / Geo. Terry Rig Murfin 8
 Location: Sec. 1 Twp. 2 S Rge. 28 W Co. Decatur State KS

Interval Tested 3367 - 3460 Zone Tested Top - D
 Anchor Length 93' Drill Pipe Run 3180' Mud Wt. 8.9
 Top Packer Depth 3362 Drill Collars Run 186 Vis 55
 Bottom Packer Depth 3367 Wt. Pipe Run — WL 6.4
 Total Depth 3460 Chlorides 400 ppm System LCM —

Blow Description IF - 4" blow
ISI - No return
FF - 1" blow
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>226</u>	<u>Mud with show of oil</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

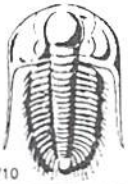
Rec Total 226 BHT 96° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1652 Test 1150 T-On Location 5:13pm
 (B) First Initial Flow 48 Jars _____ T-Started 6:54pm
 (C) First Final Flow 102 Safety Joint 75 T-Open 8:40pm
 (D) Initial Shut-In 1114 Circ Sub _____ T-Pulled 12:40 am
 (E) Second Initial Flow 108 Hourly Standby _____ T-Out 2:31 am
 (F) Second Final Flow 151 Mileage 138 ~~261~~ ~~40.30~~ 276RT Comments _____
 (G) Final Shut-In 1078 Sampler _____
 (H) Final Hydrostatic 1676 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 90
 Sub Total 1265.30
 Sub Total 1265.30

Approved By _____ Our Representative Cody Bledsoe

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52175

Well Name & No. LMB "A" 1-1 Test No. 2 Date 4-16-13
 Company Cobalt Energy LLC Elevation 2556 KB 2553 GL
 Address 115 S. Belmont #12, Wichita KS, 67208
 Co. Rep / Geo. Terry McLeod Rig Murfin #8
 Location: Sec. 1 Twp. 2s Rge. 28W Co. Decatur State KS

Interval Tested 3462 - 3507 Zone Tested _____
 Anchor Length 45' Drill Pipe Run 3264' Mud Wt. 8.9
 Top Packer Depth 3457 Drill Collars Run 186' Vis 55
 Bottom Packer Depth 3462 Wt. Pipe Run - WL 6.4
 Total Depth 3507 Chlorides 400 ppm System LCM _____
 Blow Description IF - 2 1/4" blow
ISI - No return
FF - 1/4" blow
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>HOCM</u>	<u>40</u>		<u>60</u>	
<u>4</u>	<u>Free oil</u>				
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 64' BHT 99° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1700</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>8:09am</u>
(B) First Initial Flow <u>42</u>	<input type="checkbox"/> Jars _____	T-Started <u>8:31am</u>
(C) First Final Flow <u>54</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:57am</u>
(D) Initial Shut-In <u>86</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>3:00 pm</u>
(E) Second Initial Flow <u>57</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>4:55 pm</u>
(F) Second Final Flow <u>61</u>	<input checked="" type="checkbox"/> Mileage <u>276 RT</u> 40.30	Comments _____
(G) Final Shut-In <u>77</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1679</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>1265.30</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1265.30</u>	

Approved By _____ Our Representative Cody Block

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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52176

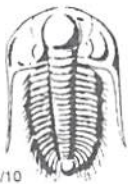
Well Name & No. LMB "A" 1-1 Test No. 3 Date 4-17-13
 Company Cobalt Energy LLC Elevation 2556 KB 2553 GL
 Address _____
 Co. Rep / Geo. Terry Rig Murfin 8
 Location: Sec. 1 Twp. 25 Rge. 28w Co. Decatur State KS

Interval Tested 3506 - 3575 Zone Tested _____
 Anchor Length 69' Drill Pipe Run 3316' Mud Wt. 8.9
 Top Packer Depth 3501 Drill Collars Run 186 Vis 55
 Bottom Packer Depth 3506 Wt. Pipe Run — WL 6.4
 Total Depth 3575 Chlorides 400 ppm System LCM —
 Blow Description IF - 1/4" blow, died in 8 Min.
ISI - No return
FF - surged, died, flushed tool after 5 min. Surged & died
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud, with little oil show</u>			<u>100</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 15' BHT 990 Gravity — API RW — @ — ° F Chlorides — ppm
 (A) Initial Hydrostatic 1775 Test 1150 T-On Location 12:30am
 (B) First Initial Flow 64 Jars _____ T-Started 12:58am
 (C) First Final Flow 68 Safety Joint 75 T-Open 3:30am
 (D) Initial Shut-In 300 Circ Sub _____ T-Pulled 6:00am
 (E) Second Initial Flow 70 Hourly Standby _____ T-Out 7:40am
 (F) Second Final Flow 73 Mileage 276 RT 40.30 Comments _____
 (G) Final Shut-In 129 Sampler _____
 (H) Final Hydrostatic 1731 Straddle _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 60 Shale Packer _____
 Final Flow 30 Extra Packer _____
 Final Shut-In 30 Extra Recorder _____
 Sub Total 1265.30 Day Standby _____
 Total 1265.30 Accessibility _____
 MP/DST Disc't _____
 Sub Total 1265.30

Approved By _____ Our Representative Cody Black
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52177

Well Name & No. LMB "A" 1-1 Test No. 4 Date 4-17-13
 Company Cobalt Energy LLC Elevation 2556 KB 2553 GL
 Address 115 S. Belmont #12, Wichita KS, 67208
 Co. Rep / Geo. Terry Rig Murfin 8
 Location: Sec. 1 Twp. 2s Rge. 28w Co. Decatur State KS

Interval Tested 3572 - 3610 Zone Tested _____
 Anchor Length 38' Drill Pipe Run 3380' Mud Wt. 9.1
 Top Packer Depth 3577 Drill Collars Run 186' Vis 57
 Bottom Packer Depth 3572 Wt. Pipe Run — WL 7.2
 Total Depth 3610 Chlorides 900 ppm System LCM —

Blow Description IF - 4.5" blow in 13 Min. Died back to 3" blow
ISI - No return
FF - Surged & died
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>Mud, with oil show</u>			<u>100</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 120 BHT 98° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1772 Test 1150 T-On Location 1:38pm
 (B) First Initial Flow 88 Jars _____ T-Started 1:54pm
 (C) First Final Flow 92 Safety Joint 75 T-Open 4:10pm
 (D) Initial Shut-In 837 Circ Sub _____ T-Pulled 6:40pm
 (E) Second Initial Flow 92 Hourly Standby _____ T-Out 8:24pm
 (F) Second Final Flow 95 Mileage 276 RT 40.30 Comments _____
 (G) Final Shut-In 521 Sampler _____
 (H) Final Hydrostatic 1756 Straddle _____

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 30
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1265.30
 Sub Total 1265.30
 Sub Total 0
 Total 1265.30
 MP/DST Disc't _____

Approved By _____ Our Representative Cody Bloodorn

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TERRY M. L. GOOD
 Consulting Geologist
 P.O. Box 503
 Wichita, Kansas 67201
 316-265-6431

GEOLOGIST'S REPORT
 DRILLING TIME AND SAMPLE LOG

OPERATOR Cobalt Energy L.L.C.

LEASE LMB "A" WELL NO. J-1

FIELD _____

LOCATION 1650' ESL & 660' FEL

SEC. 1 TWP. 2S RGE. 28 W

COUNTY Decatur STATE Kansas

CONTRACTOR Murfin drly. Co. Rig 8

CCOM. 4-12-2013 COMP. 4-18-2013

RTD 3650' LOG TO 3647'

SAMPLES SAVED FROM 3100' TO RTD

DRILLING TIME KEPT FROM 3100' TO RTD

SAMPLES EXAMINED FROM 3100' TO RTD

GEOLOGICAL SUPERVISION FROM 2900' TO RTD

MUD UP 2900' TYPE MUD CHEMICAL

FORMATION	TOP	LOGS	DATA	TRP	SAMPLE	RTD	STRUCT.
Anhydrite	2092	+464	2094	+462	+11		
Base Anhydrite	2124	+432	2125	+431	+10		
Topoka	3246	-690	3248	-692	+2		
Heebner	3369	-813	3373	-817	+3		
Lansing	3409	-853	3414	-858	+3		
Stark	3570	-1014	3575	-1019	+4		
Base Kans. Crv	3616	-1060	3619	-1063	+6		

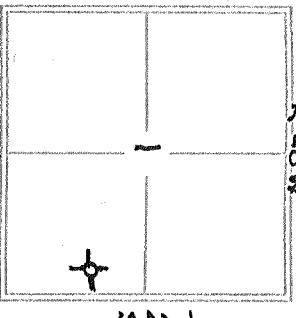
ELEVATION
 KB 2556'
 DF _____
 GL 2551'
 Measurements Are All
 From K.B.

CASING RECORD

SURFACE 8 5/8" @ 220'
 w/ 175 SX
 PRODUCTION NONE

ELECTRICAL SURVEYS

Pioneer Logging
 Radiation - Guard
 R 28W



T 2 S

REFERENCE WELL FOR STRUCTURAL COMPARISON Resources Investment No 1
 Bryan t se se 1-2S-28 W, 2S12 KB

DATE	DEPTH	NO	SIZE	TYPE	DEPTH COR
4-12-13	meter surf Cor.	A	1 1/4	5m	FDS RE 220
4-13-13	660' drly				
4-14-13	2290' drly	1	7/8	HTC	6X 70C 3650
4-15-13	3300' dr-1	2			
4-16-13	3507' dr-2	3			
4-17-13	3575' dr-3+4	4			
4-18-13	3650' E-log	5			

Surveys 220' = 1/2°
 3460' = 3/4°

Board 3463.99
 Strip 3463.33

DESCRIPTION OF LOG

TORONTO	3400-3408	Limestone, tan, micro-coalitic, w/ 4-5 pieces w/ med drk brown stn + SFO in fair-poor ool of. No odor.
Lansing "A"	3418-3421	Limestone, light tan & cream, fn-xln - fass w/ 7-8 pct's w/ med drk brn sat stn + SFO in fr-poor fass of faint odor
Lansing "d"	3451-3456	Limestone, Cream, fine-xln v. sil-fass w/ 2-3 pct's w/ drk brn stain in poor fass-ppt. No free oil, v. faint odor
Lansing "e"	3498-3503	Limestone, tan, fn-xln, fass, w/ 5-6 pct's w/ med. brown spt'd sat stn + SFO in fr. pinpoint fass of v. faint odor
Lansing "h"	3525-3532	Limestone, Cream to Gray, fine-xln - v. sil-fass, 2-3 pct's w/ trace poor brn stn in poor fass of, NEO - No odor
Lansing "j"	3563-3566	Limestone fine-xln, fass, w 3-4-5 pct's w/ drk brn spt'd stn + SFO in poor fass of v. faint odor (Copper-parasitic ls. tan. fn-xln. sil fass w/ 2-3 pct's w/ spt'd greasy stain in poor fass of
Lansing "k"	3591-3598	No free oil + No odor

FEET	INCHES
220	2
34 30	N/A
* SNOOWING +	
SLECTING pm	
4-17 TO 4-18 4-18	
2013 " 4" *	
" WOV "	
JOS 4-18-13 3 4	
DST-1-	
DST-1-	
DST-1-	
DST-2-	
DST-3-	
DST-3-	
DST-4-	

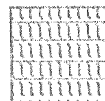

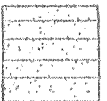

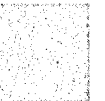

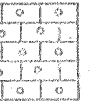
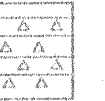
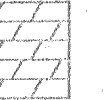
DRILL STEM TESTS

No.	Interval	PT/Time	ISF/Time	FR/Time	RES/Time	GR-GR	REMARKS
1	3367-3460 TOR-A±D	48-102 30"	1114 60"	108-151 60'	1078 90'	1652 1676 #	226' mud w/oil spots
2	3462-3507 " G "	42-54 30'	86 60'	57-61 60'	77 90'	1700 1679 #	4' FREE OIL 60' HOCM 40% oil
3	3506-3575 " N-J "	64-68 30"	300 60'	70-73 30"	129 30"	1775 1731 #	15' mud w/oil spots
4	3572-3610 " K "	88-92 30"	837 60"	92-95 30'	521 30"	1772 1756 #	120' mud w/oil spots

Due to negative DST's of all potential pay zones the LMB "A" 1-1 was declared dry and abandoned on 4-18-2013.

Respectively
 Jerry K Smy Lead
 Petroleum geologist

LEGEND

								
Anhydrite	Salt	Sandstone	Shale	Carb sh	Limestone	Ool.Lime	Chert	Dolomite

SCALE " = 100'

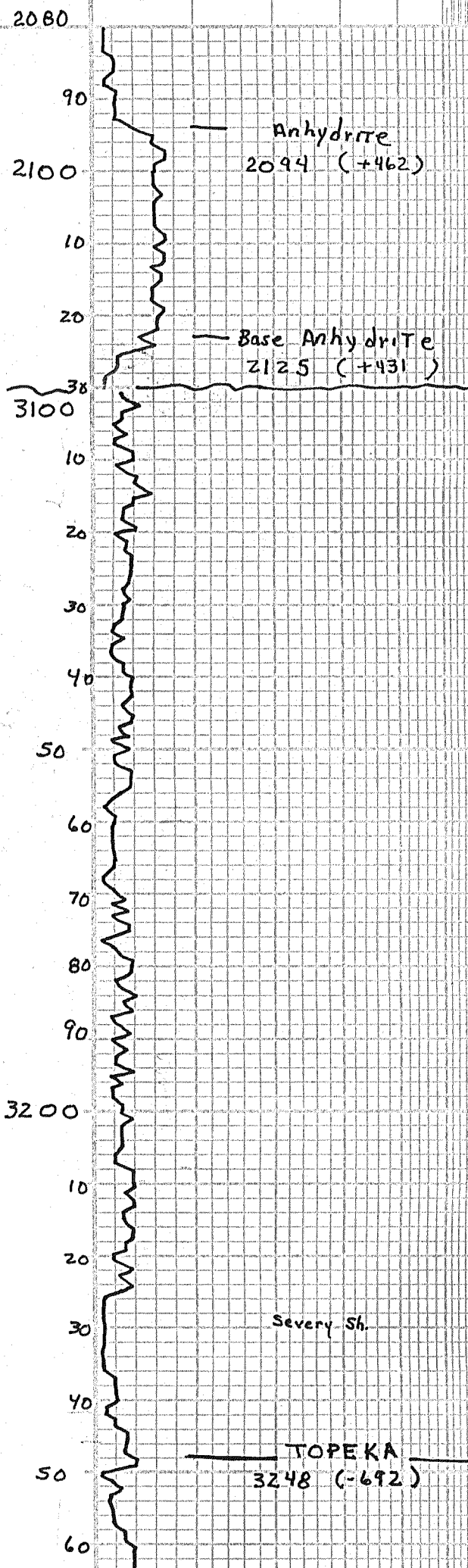
DRILLING TIME IN MINUTES
 PER FOOT
 Rate of Penetration Increases

LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS

DEPTH



Anhydrite
2094 (+462)

Base Anhydrite
2125 (+431)

Samples start 3100'

sh. gry's to mar

Ls. tan. fn-xln, sl. foss
some matt. pr of N.S.

Ls. tan. gry, sl. foss,
tight fx, shly Gry -
mar - N.S.

Ls. ala. chky. shly

sh. Gry - mar.

Ls. tan & brn + gry. fn-xln
& v. sl. foss to dse, pr.
N.V.P. N.S.

Ls. tan. Crm. sl. foss -
xln-dse, PR - N.V.P. v. chky
N.S.

sh. mar → Gry.

Ls. tan, fn-xln + sl. foss
to dse + tight, PR - N.V.P.

Ls. tan → Gry. fn-xln +
sl. foss, PR - N.V.P. N.S.
Chky.

sh. gry-mar

Ls. lt-tan to Gry. fn-xln.
mostly tight φ. N.S.

Ls. lt tan. - lt Gry. fn-xln
sl. foss. N.S.

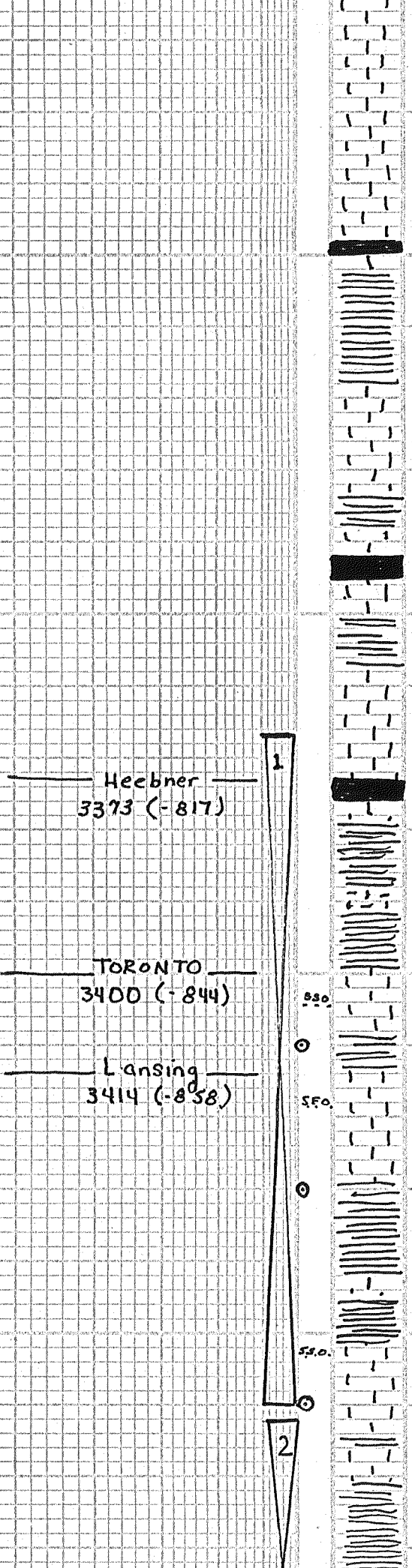
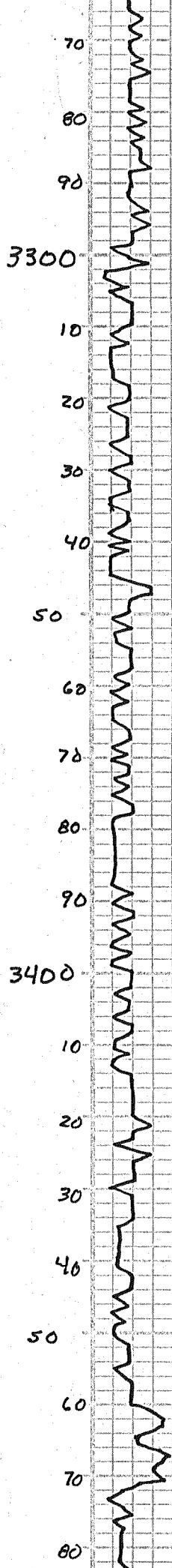
sh - mar - Gry

3

Severy Sh.

TOPEKA
3248 (-692)

Ls. TAN. FN-XLN + FOSS to
ool. scatt poor φ N.S.
v. Chky



Ls. wh. Crm. fn-xln. sli
 foss. CHKY - N.S.

Ls. wh. Crm. sli foss
 CHKY - N.S.

sh. black carb

sh. gry-mar

Ls. Crm. fn-xln. v. sli
 foss. tight rx. N.S.

Ls. q/a shly - N.S.

Ls. Crm. fn-xln. sli foss, N.S.

sh. blk carb

Ls. tan-gry - fn-xln. sli
 foss. N.S.

sh. GRY-MAR

Ls. Crm. H. tan. fn-xln. ool
 w/ scab ool. N.S.

sh. blk carb.

tr tan ls. N.S.

sh. GRN-GRY-MAR

sh. Gry-GRY. MAR tr ls

Ls. H. tan. micro. ool. w/ 4-5
 pcs w/ drk. med brn stn +
 SFO in fr. pr. ool. No odor

sh. GRYS

Ls. H. tan - Crm. fn-xln. foss
 w/ 7-8 pcs w/ drk brn sp'd
 stn + sat. SFO, faint odor
 fr. pr. foss. p.

Ls. Crm. fn-xln + sli foss.
 2 pcs w/ stn. NFO, No odor

sh. gry-mar

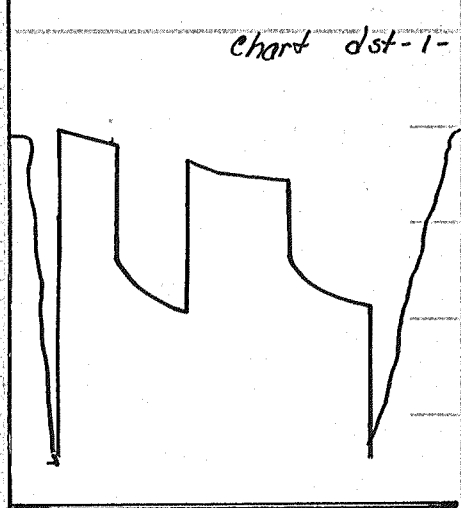
sh. gry-mar

Ls. Crm. fn-xln. v. sli foss
 2-3 pcs w/ drk sp'd stn in
 poor pp. foss. NFO, V. PAINT
 odor

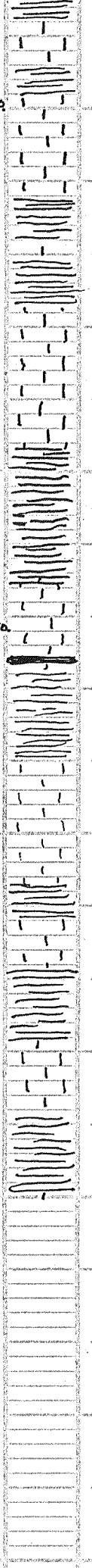
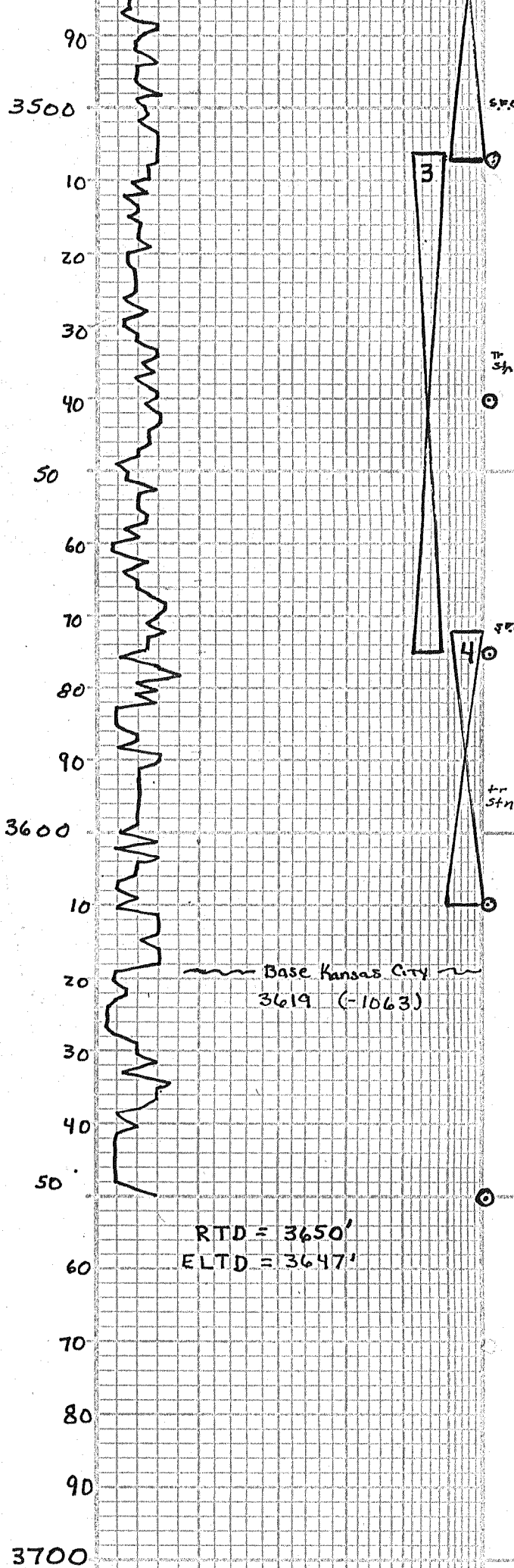
Ls. Crm. Gry. fn-xln. dse
 tight rx. N.S.

sh. Gry-mar

DST NO 1 3367' - 3460'
 wk inc. blow 4" 1st open
 wk blow 1" 2nd open (No BB)
 30" 60" 60" 90"
 Rec: 226' mud w/ oil spots
 SIP: 1114# → 1078#
 FP: 48#-102# + 108#-151#
 HP: 1652# → 1676#
 T = 96°



DST-2 3462' - 3507'
 wk blow 2" 1st open +
 v wk blow 1/4" 2nd open
 30" 60" 60" 90"
 Rec: 4' Free Oil
 60' Hocm 40% oil
 SIP: 81# 77#



sh. mar. Gry

ls. tan, fn. xln. foss w/ 5-6 pcs w/ med. drk. brn. sptd sat in fr. pp. foss. sfo faint odor

ls. Crm. fn. xln. foss, less s.o. inc in xln. dse rx w/ N.S.

sh. mar - GRN.

ls. Crm. fn. xln. sli. foss, 2-3 pcs w/ drk. oil stn in poor foss. p. NFO, No odor.

ls. Crm. Gry, fn. xln. v. sli. foss 2 pcs w/ pr. stn. in poor foss. p. mostly tight w/ N.V.P. N.S.

sh. MAR + GRN.

sh. MAR + GRN.

ls. tan, fn. xln. sli. foss w/ 3-4 pcs w/ med. brn sptd stn + sfo in sct. foss p. v. faint odor SH-BIK Carb

sh. mar - GRN

sh. mar - GRN

ls. tan, fn. xln. sli. foss w/ 2-3 pcs w/ med. brn. grsy stn in poor foss p. - NFO - NO odor.

ls. tan - Crm. fn. xln. - tight rx., N.V.P. N.S. sli. CHKY

sh. GRN - MAR.

ls. tan - GRN, fn. xln. + tight rx., PR - N.V.P. N.S. sli. CHKY

sh. grn - grn. mar. - org. a -

ls. lt. tan + GRN, fn. xln. dse tight rx., CHKY. N.S.

sh. - Gry's + mar.

SIP: 106 - 111

FP: 42-54# + 57-61#

HP: 1700# - 1679#

DST-2

"tight" chart

DST NO. 3 3506 - 3575'

Tool slid 5' + opened early NK blow 1/4" died in 8", surge 2nd open. flushed tool surge + no blow

30" 60" 30" 30"

Rec: 15' mud w/oil spots

SIP: 300# - 129#

FP: 64# - 68# + 70# - 73#

HP: 1775# - 1731# T = 99°

DST No. 3

"Flushed Tool"

DST NO. 4 3572' - 3610'

Tool slid 8' - opened 1st open 4 1/2" → 3", 2nd open. surge → NO blow 30" 60" 30" 30"

Rec: 120 mud w/oil spots

SIP: 837# - 521#

FP: 88# - 92# + 92# - 95#

HP: 1772# - 1756#

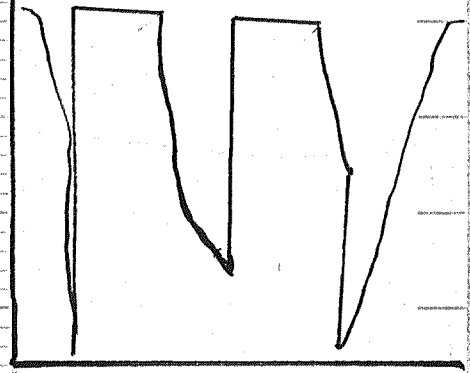
T = 98°

DEPTH DRILLING TIME Minutes/Foot
 5" 10" 15" 20" 25"
 Rate of Penetration Increases

LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS



COMPANY Cobalt Energy LLC.
 LEASE LMB "A" 1-1
 LOCATION 1650' FSL & 660' FEL SEC 1 TWP 2S RNG 28W.
 COUNTY Decatur STATE Kansas

ELEVATION: 2556 K.B.

ALLIED OIL & GAS SERVICES, LLC 060153

Federal Tax I.D. # 20-8651476

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Carbide, TX

DATE <u>4/12/13</u>	SEC. <u>1</u>	TWP. <u>2</u>	RANGE <u>28</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00p</u>	JOB FINISH <u>6:30p</u>
LEASE <u>LMB A</u>	WELL # <u>1-1</u>	LOCATION <u>Obstin 8E 5/6 N/W</u>			COUNTY <u>DeWitt</u>	STATE <u>KY</u>	
OLD OR NEW (Circle one)		<u>45 write</u>					

CONTRACTOR Martin B
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 220
CASING SIZE 8 5/8 DEPTH 220
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 13.0585
EQUIPMENT

OWNER Gene
CEMENT
AMOUNT ORDERED 17520m 3070CC
2070m
COMMON 175 @ 17⁹⁰ 3132²⁵
POZMIX @
GEL @
CHLORIDE E @ 384⁰⁰
ASC @
HANDLING @ 2⁴² 455⁷⁰
MILEAGE 2⁰⁰ 183.2565 @ 2⁰⁰ 1696⁰⁹
TOTAL 5668⁰⁴

PUMP TRUCK CEMENTER Alta
0122 HELPER Wing
BULK TRUCK
347 DRIVER Kevin
BULK TRUCK
DRIVER

REMARKS:

Quality Circulate, Mix Cement, Displace
Cement Aid Circulate
Thank You Alan, Wayne, the crew

CHARGE TO: Cobalt
STREET
CITY STATE ZIP

SERVICE

DEPTH OF JOB 220
PUMP TRUCK CHARGE 1512²⁵
EXTRA FOOTAGE @
MILEAGE 77 @ 7⁷⁰ 592⁰⁰
MANIFOLD @ 225⁰⁰
City vehicle 77 @ 4⁴⁰ 338⁰⁰
TOTAL 2718⁹⁵

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 Farr
SIGNATURE Rodney Farr

SALES TAX (If Any)
TOTAL CHARGES 8,386.99
DISCOUNT 1,845.13 IF PAID IN 30 DAYS
6,541.85 Net.

ALLIED OIL & GAS SERVICES, LLC 058990

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Oakley

DATE <u>4-18-13</u>	SEC. <u>1</u>	TWP. <u>2</u>	RANGE <u>28</u>	CALLED OUT	ON LOCATION	JOB START <u>12:00pm</u>	JOB FINISH <u>1:00pm</u>
LEASE <u>LMB A</u>	WELL# <u>1-1</u>	LOCATION <u>Oberlin 8E 5/8N 1W</u>	COUNTY <u>Deer</u>	STATE <u>KS</u>			
OLD OR <u>NEW</u> (Circle one)		<u>45 wint</u>					

CONTRACTOR <u>Murfin &</u>	OWNER <u>Same</u>	
TYPE OF JOB <u>PTA</u>		
HOLE SIZE <u>7 7/8</u>	T.D. <u>3650'</u>	CEMENT
CASING SIZE	DEPTH	AMOUNT ORDERED <u>220 sks 6940 4/8 gel</u>
TUBING SIZE	DEPTH	<u>4 flo seal</u>
DRILL PIPE <u>4 1/2</u>	DEPTH <u>2120'</u>	
TOOL	DEPTH	
PRES. MAX	MINIMUM	COMMON <u>132 sks @ 17.90</u> <u>2362.80</u>
MEAS. LINE	SHOE JOINT	POZMIX <u>88 sks @ 9.35</u> <u>822.80</u>
CEMENT LEFT IN CSG.		GEL <u>7 sks @ 23.40</u> <u>163.80</u>
PERFS.		CHLORIDE @
DISPLACEMENT		ASC @

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Andrew Forstlund</u>		
# <u>431</u>	HELPER <u>Dane Ketzloff</u>		
BULK TRUCK			
<u>1,396</u>	DRIVER <u>Brandon Wilkinson</u>		
BULK TRUCK			
#	DRIVER		
HANDLING <u>2.36, 27 cu/ft @ 2.48</u>			<u>585.94</u>
MILEAGE <u>2.60 Trip/mile 9.86 ton</u>			<u>1973.97</u>
			TOTAL <u>4072.66</u>

REMARKS:

25 sks @ 2120'
60 sks @ 1456'
40 sks @ 270'
10 sks @ 40'
15 sks mouse hole
30 sks Ret hole

Thank you

CHARGE TO: Cobalt
STREET _____
CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>2120'</u>		
PUMP TRUCK CHARGE		<u>2483.59</u>
EXTRA FOOTAGE @		
MILEAGE <u>77 miles @ 2.20</u>		<u>592.90</u>
MANIFOLD @		
<u>Light vehicle @ 4.40</u>		<u>338.80</u>
TOTAL <u>3415.29</u>		

PLUG & FLOAT EQUIPMENT

<u>8 7/8</u>		
<u>1 Dry hole Plug @</u>		<u>102.64</u>
@		
@		
@		
@		
TOTAL <u>102.64</u>		

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 Robert Forstlund
SIGNATURE Robert Forstlund

SALES TAX (If Any) _____
TOTAL CHARGES 9,595.59
DISCOUNT 2,111.02 IF PAID IN 30 DAYS
7,484.56 Net.