

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Kaus "A" #1-19

19-6s-25w Graham,KS

Start Date: 2017.03.11 @ 04:05:44

End Date: 2017.03.11 @ 12:20:08

Job Ticket #: 64098 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.03.13 @ 16:42:23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

19-6s-25w Graham,KS

PO Box 8037
Wichita KS 67208

Kaus "A" #1-19

Job Ticket: 64098

DST#: 1

ATTN: Larry Nicholson

Test Start: 2017.03.11 @ 04:05:44

GENERAL INFORMATION:

Formation: **LKC B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:28:09

Time Test Ended: 12:20:08

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 77

Interval: 3695.00 ft (KB) To 3732.00 ft (KB) (TVD)

Reference Elevations: 2596.00 ft (KB)

Total Depth: 3732.00 ft (KB) (TVD)

2591.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8360

Inside

Press@RunDepth: 186.63 psig @ 3701.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.11

End Date:

2017.03.11

Last Calib.: 2017.03.11

Start Time: 04:05:44

End Time:

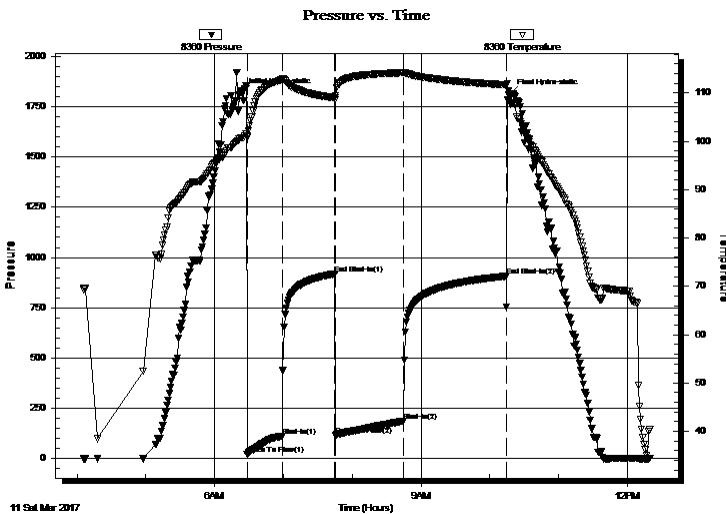
12:20:08

Time On Btm: 2017.03.11 @ 06:24:09

Time Off Btm: 2017.03.11 @ 10:17:38

TEST COMMENT: 30-IFP-w k to a gd bl 1/2" to 9" bl
45-ISIP-no bl bk
60-FFP-w k to a gd bl surface to 7" bl
90-FSIP-no bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1820.62	100.76	Initial Hydro-static
4	23.03	100.83	Open To Flow (1)
35	112.20	112.73	Shut-In(1)
81	918.77	108.99	End Shut-In(1)
81	117.39	108.63	Open To Flow (2)
141	186.63	114.16	Shut-In(2)
230	906.91	111.66	End Shut-In(2)
234	1814.84	109.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	Water	0.97
180.00	MW 20%M80%W w/show of oil	2.52
1.00	CO	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

19-6s-25w Graham,KS

PO Box 8037
Wichita KS 67208

Kaus "A" #1-19

Job Ticket: 64098

DST#: 1

ATTN: Larry Nicholson

Test Start: 2017.03.11 @ 04:05:44

Tool Information

Drill Pipe:	Length: 3491.00 ft	Diameter: 3.80 inches	Volume: 48.97 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 49.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3695.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	66.00 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			3667.00	
Shut In Tool	5.00			3672.00	
Hydraulic tool	5.00			3677.00	
Jars	5.00			3682.00	
Safety Joint	3.00			3685.00	
Packer	5.00			3690.00	29.00 Bottom Of Top Packer
Packer	5.00			3695.00	
Stubb	1.00			3696.00	
Perforations	5.00			3701.00	
Recorder	0.00	8360	Inside	3701.00	
Recorder	0.00	6751	Outside	3701.00	
Perforations	28.00			3729.00	
Bullnose	3.00			3732.00	37.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

19-6s-25w Graham,KS

PO Box 8037
Wichita KS 67208

Kaus "A" #1-19

Job Ticket: 64098

DST#: 1

ATTN: Larry Nicholson

Test Start: 2017.03.11 @ 04:05:44

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:

63000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	Water	0.969
180.00	MW 20%M80%W w/show of oil	2.525
1.00	CO	0.014

Total Length: 367.00 ft Total Volume: 3.508 bbl

Num Fluid Samples: 0

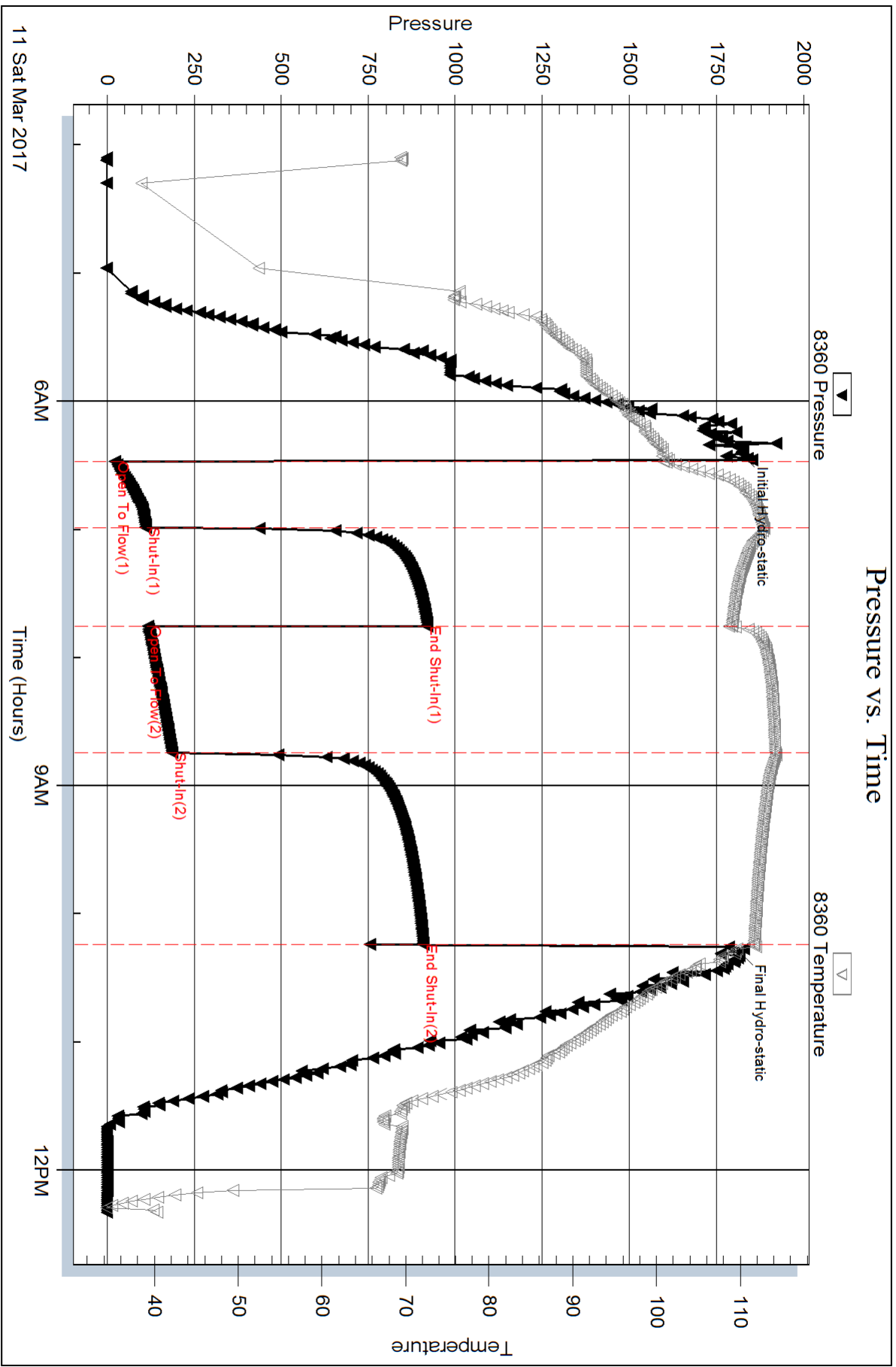
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .13@65F







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Kaus "A" #1-19

19-6s-25w Graham,KS

Start Date: 2017.03.11 @ 19:41:03

End Date: 2017.03.12 @ 05:08:12

Job Ticket #: 64099 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.03.13 @ 16:41:51



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

19-6s-25w Graham,KS

PO Box 8037
Wichita KS 67208

Kaus "A" #1-19

Job Ticket: 64099

DST#: 2

ATTN: Larry Nicholson

Test Start: 2017.03.11 @ 19:41:03

GENERAL INFORMATION:

Formation: **LKC E-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:51:58

Time Test Ended: 05:08:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 77

Interval: 3731.00 ft (KB) To 3762.00 ft (KB) (TVD)

Reference Elevations: 2596.00 ft (KB)

Total Depth: 3762.00 ft (KB) (TVD)

2591.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8360

Inside

Press@RunDepth: 148.44 psig @ 3736.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.11

End Date:

2017.03.12

Last Calib.:

2017.03.12

Start Time:

19:41:03

End Time:

04:08:12

Time On Btm:

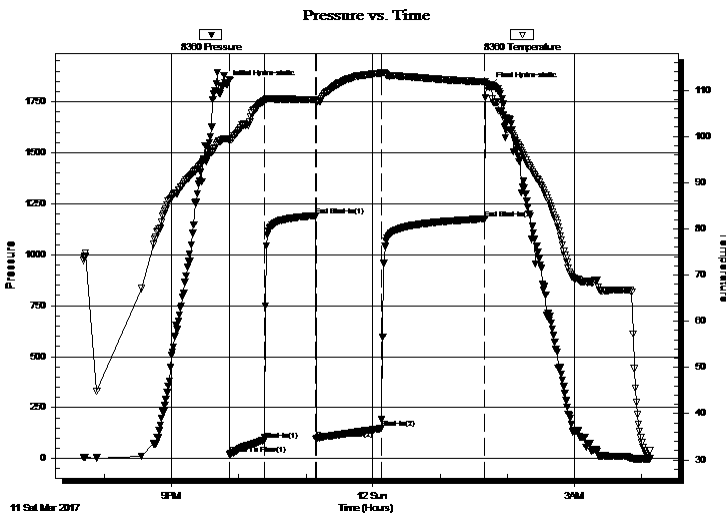
2017.03.11 @ 21:49:13

Time Off Btm:

2017.03.12 @ 01:44:27

TEST COMMENT: 30-IFP-w k to a fr bl 1/2" to 6" bl
45-ISIP-no bl bk
60-FFP-w k to a fr bl 1/4" to 5" bl
90-FSIP-no bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1836.41	99.49	Initial Hydro-static
3	20.98	99.03	Open To Flow (1)
34	89.89	107.71	Shut-In(1)
80	1191.48	107.92	End Shut-In(1)
80	94.32	107.29	Open To Flow (2)
139	148.44	113.68	Shut-In(2)
231	1176.08	111.84	End Shut-In(2)
236	1822.42	111.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	Water	0.97
90.00	SOCMW 5%O25%M70%W	1.26
20.00	CO	0.28
0.00	70' 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

19-6s-25w Graham,KS

PO Box 8037
Wichita KS 67208

Kaus "A" #1-19

Job Ticket: 64099

DST#: 2

ATTN: Larry Nicholson

Test Start: 2017.03.11 @ 19:41:03

Tool Information

Drill Pipe:	Length: 3552.00 ft	Diameter: 3.80 inches	Volume: 49.83 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 50.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3731.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	60.00 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			3703.00	
Shut In Tool	5.00			3708.00	
Hydraulic tool	5.00			3713.00	
Jars	5.00			3718.00	
Safety Joint	3.00			3721.00	
Packer	5.00			3726.00	29.00 Bottom Of Top Packer
Packer	5.00			3731.00	
Stubb	1.00			3732.00	
Perforations	4.00			3736.00	
Recorder	0.00	8360	Inside	3736.00	
Recorder	0.00	6751	Outside	3736.00	
Perforations	23.00			3759.00	
Bullnose	3.00			3762.00	31.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

19-6s-25w Graham,KS

PO Box 8037
Wichita KS 67208

Kaus "A" #1-19

Job Ticket: 64099

DST#: 2

ATTN: Larry Nicholson

Test Start: 2017.03.11 @ 19:41:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.75 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	Water	0.969
90.00	SOCMW 5%O25%M70%W	1.262
20.00	CO	0.281
0.00	70' GIP	0.000

Total Length: 296.00 ft

Total Volume: 2.512 bbl

Num Fluid Samples: 0

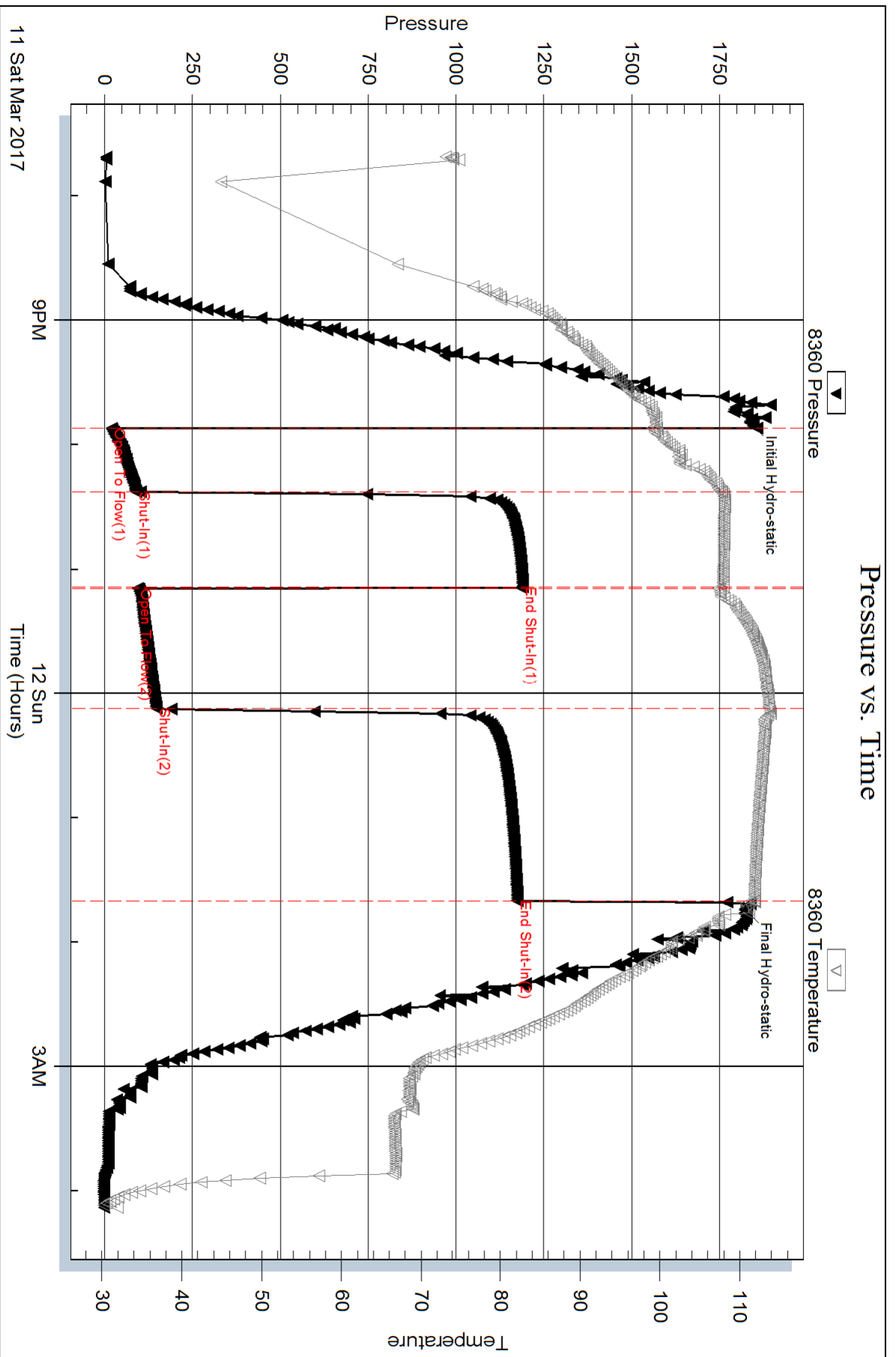
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .21@60F

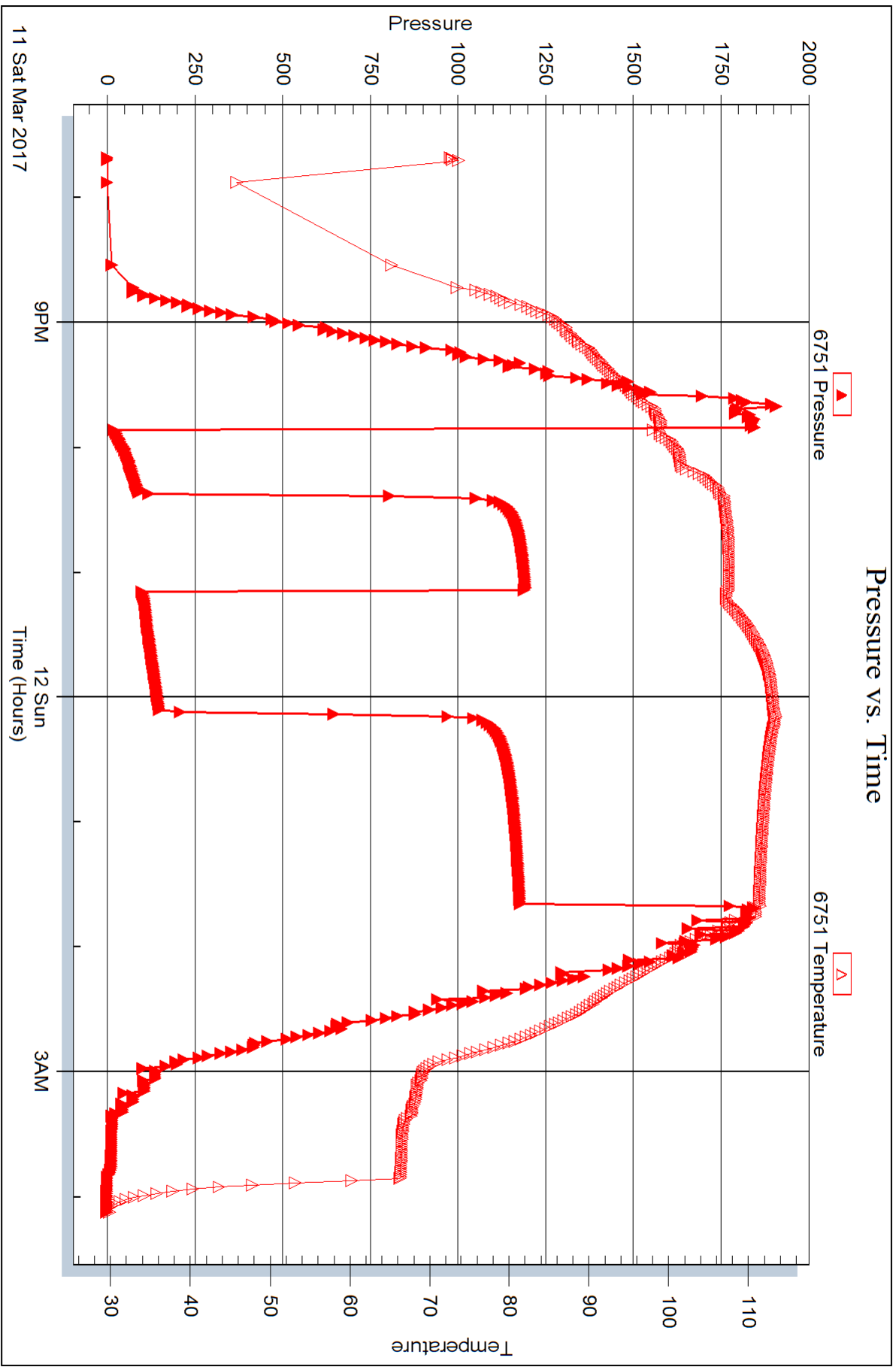


Serial #: 6751

Outside Cobalt Energy LLC

Kaus "A" #1-19

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64099

Printed: 2017.03.13 @ 16:41:52



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Kaus "A" #1-19

19-6s-25w Graham,KS

Start Date: 2017.03.12 @ 14:35:38

End Date: 2017.03.12 @ 22:32:32

Job Ticket #: 64100 DST #: 3

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

Printed: 2017.03.13 @ 16:41:20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

19-6s-25w Graham,KS

PO Box 8037
Wichita KS 67208

Kaus "A" #1-19

Job Ticket: 64100

DST#: 3

ATTN: Larry Nicholson

Test Start: 2017.03.12 @ 14:35:38

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:39:33

Time Test Ended: 22:32:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 77

Interval: 3779.00 ft (KB) To 3834.00 ft (KB) (TVD)

Reference Elevations: 2596.00 ft (KB)

Total Depth: 3834.00 ft (KB) (TVD)

2591.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8360

Inside

Press@RunDepth: 245.45 psig @ 3783.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.12

End Date:

2017.03.12

Last Calib.:

2017.03.12

Start Time: 14:35:38

End Time:

22:32:32

Time On Btm:

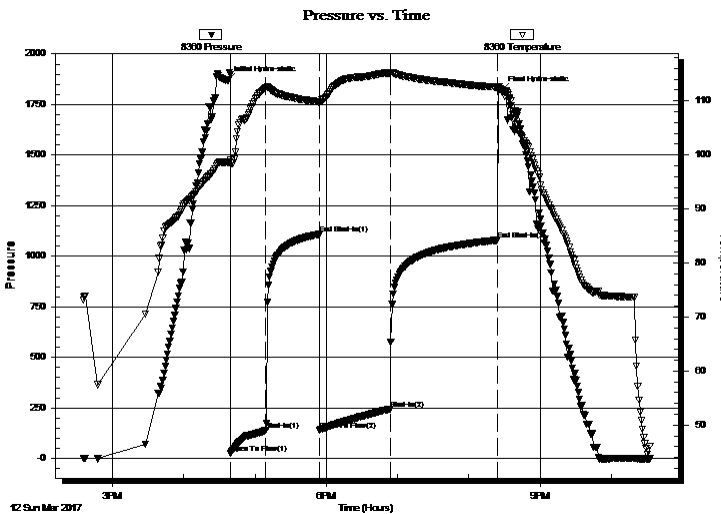
2017.03.12 @ 16:36:33

Time Off Btm:

2017.03.12 @ 20:27:47

TEST COMMENT: 30-IFP-w k to BOB in 25 min
45-ISIP-no bl
60-FFP-w k to BOB in 50 min
90-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1870.02	98.62	Initial Hydro-static
3	25.70	98.44	Open To Flow (1)
33	138.06	112.45	Shut-In(1)
78	1108.17	109.81	End Shut-In(1)
78	140.79	109.47	Open To Flow (2)
138	245.45	115.16	Shut-In(2)
228	1079.31	112.52	End Shut-In(2)
232	1816.64	112.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	Water	3.41
60.00	SOCMW 1%O14%M85%W	0.84
50.00	OCMW6%O19%M75%W	0.70
0.00	70' 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

19-6s-25w Graham,KS

PO Box 8037
Wichita KS 67208

Kaus "A" #1-19

Job Ticket: 64100

DST#: 3

ATTN: Larry Nicholson

Test Start: 2017.03.12 @ 14:35:38

Tool Information

Drill Pipe:	Length: 3585.00 ft	Diameter: 3.80 inches	Volume: 50.29 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3779.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	84.00 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			3751.00	
Shut In Tool	5.00			3756.00	
Hydraulic tool	5.00			3761.00	
Jars	5.00			3766.00	
Safety Joint	3.00			3769.00	
Packer	5.00			3774.00	29.00 Bottom Of Top Packer
Packer	5.00			3779.00	
Stubb	1.00			3780.00	
Perforations	3.00			3783.00	
Recorder	0.00	8360	Inside	3783.00	
Recorder	0.00	6751	Outside	3783.00	
Blank Spacing	33.00			3816.00	
Perforations	15.00			3831.00	
Bullnose	3.00			3834.00	55.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

19-6s-25w Graham,KS

PO Box 8037
Wichita KS 67208

Kaus "A" #1-19

Job Ticket: 64100

DST#: 3

ATTN: Larry Nicholson

Test Start: 2017.03.12 @ 14:35:38

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:

53000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	Water	3.410
60.00	SOCMW 1%O14%M85%W	0.842
50.00	OCMW6%O19%M75%W	0.701
0.00	70' GIP	0.000

Total Length: 470.00 ft Total Volume: 4.953 bbl

Num Fluid Samples: 0

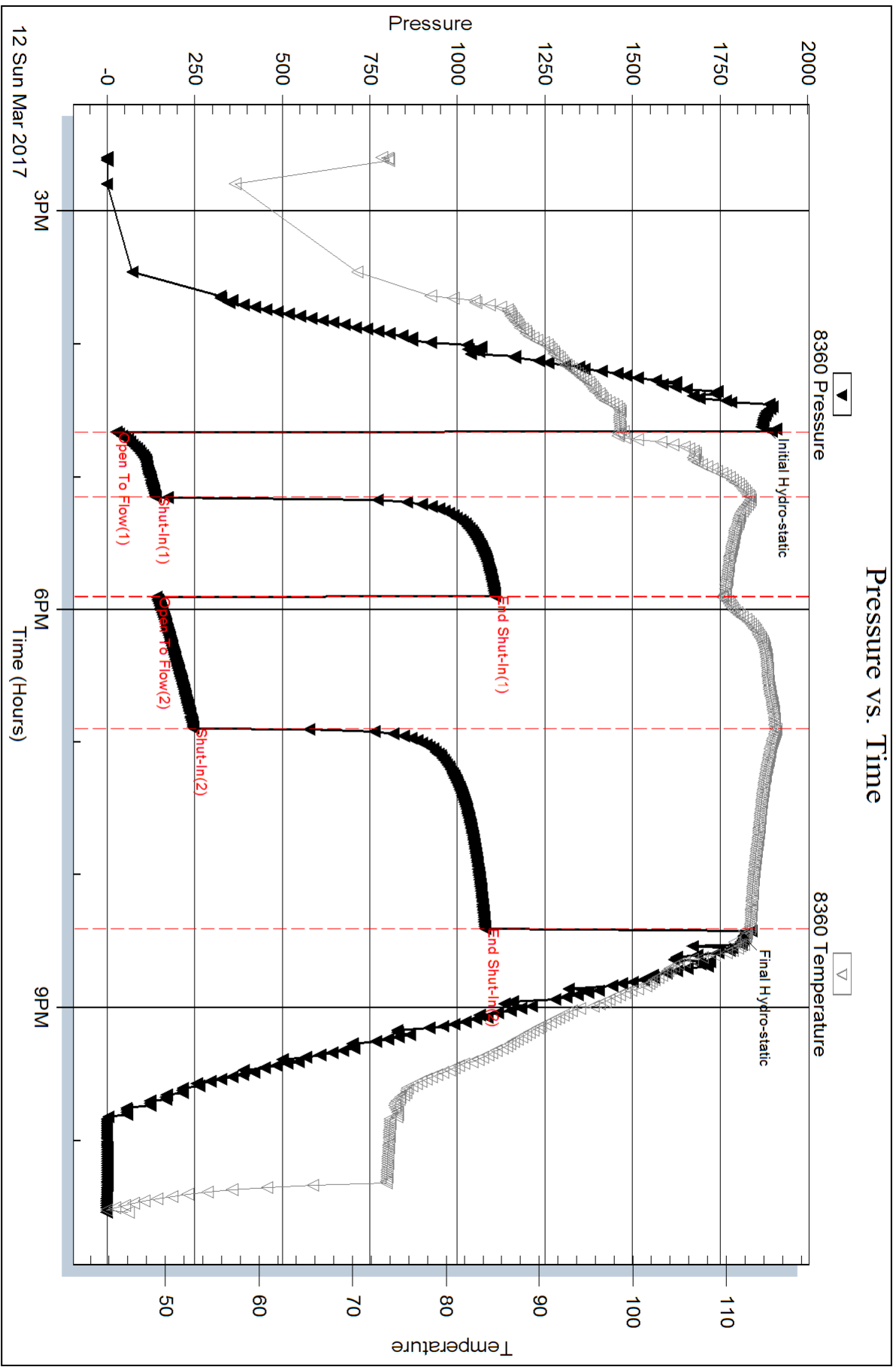
Num Gas Bombs: 0

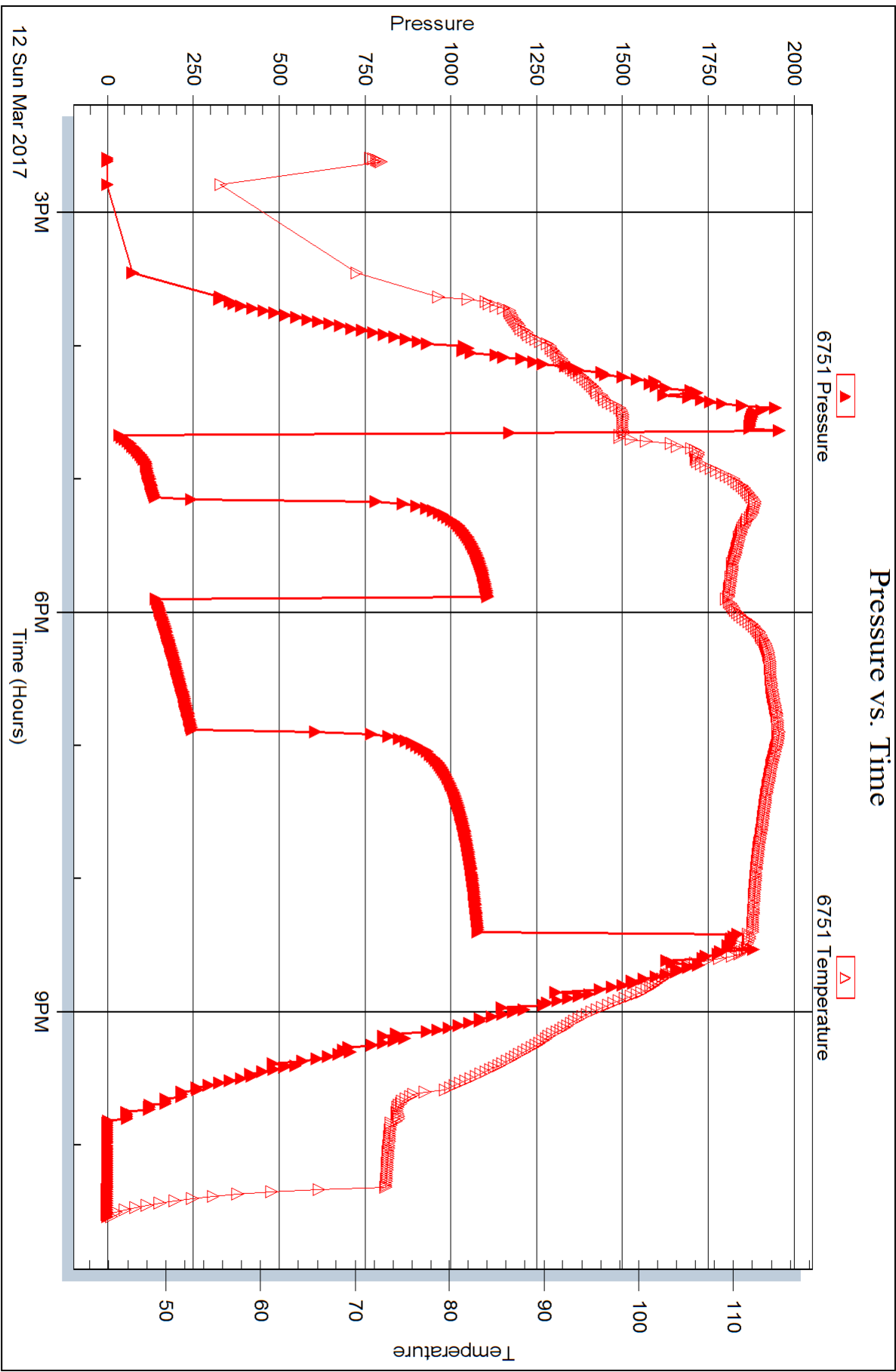
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .16@60F







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Kaus "A" #1-19

19-6s-25w Graham,KS

Start Date: 2017.03.13 @ 06:05:44

End Date: 2017.03.13 @ 12:11:38

Job Ticket #: 64127 DST #: 4

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

Printed: 2017.03.13 @ 16:40:38



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

19-6s-25w Graham,KS

PO Box 8037
Wichita KS 67208

Kaus "A" #1-19

Job Ticket: 64127

DST#: 4

ATTN: Larry Nicholson

Test Start: 2017.03.13 @ 06:05:44

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:15:54

Time Test Ended: 12:11:38

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 77

Interval: 3831.00 ft (KB) To 3850.00 ft (KB) (TVD)

Reference Elevations: 2596.00 ft (KB)

Total Depth: 3850.00 ft (KB) (TVD)

2591.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8360

Inside

Press@RunDepth: 16.39 psig @ 3832.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.13

End Date:

2017.03.13

Last Calib.: 2017.03.13

Start Time: 06:05:44

End Time:

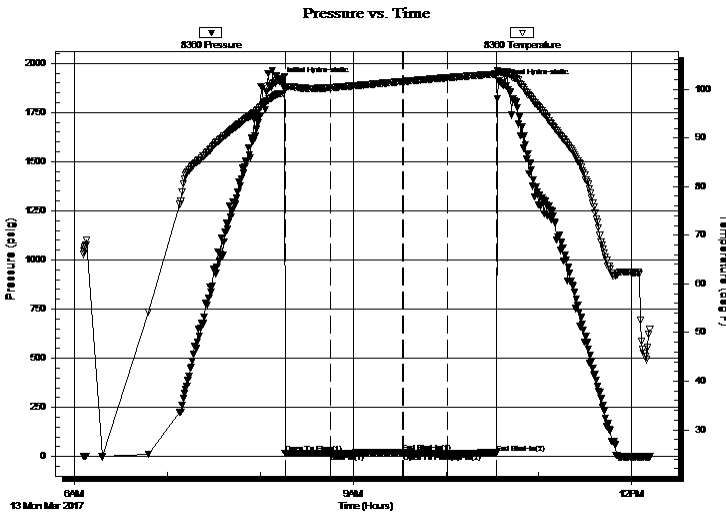
12:11:38

Time On Btm: 2017.03.13 @ 08:12:54

Time Off Btm: 2017.03.13 @ 10:35:53

TEST COMMENT: 30-IFP w k bl thru-out 1/4" to surface bl
45-ISIP-no bl
30-FFP-no bl
30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1906.62	99.10	Initial Hydro-static
3	16.25	100.03	Open To Flow (1)
33	16.98	100.34	Shut-In(1)
79	23.03	101.59	End Shut-In(1)
80	16.66	101.60	Open To Flow (2)
109	16.39	102.39	Shut-In(2)
140	19.21	103.15	End Shut-In(2)
143	1894.43	103.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

19-6s-25w Graham,KS

PO Box 8037
Wichita KS 67208

Kaus "A" #1-19

Job Ticket: 64127

DST#: 4

ATTN: Larry Nicholson

Test Start: 2017.03.13 @ 06:05:44

Tool Information

Drill Pipe:	Length: 3648.00 ft	Diameter: 3.80 inches	Volume: 51.17 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 52.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3831.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	48.00 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			3803.00	
Shut In Tool	5.00			3808.00	
Hydraulic tool	5.00			3813.00	
Jars	5.00			3818.00	
Safety Joint	3.00			3821.00	
Packer	5.00			3826.00	29.00 Bottom Of Top Packer
Packer	5.00			3831.00	
Stubb	1.00			3832.00	
Recorder	0.00	8360	Inside	3832.00	
Recorder	0.00	6751	Outside	3832.00	
Perforations	15.00			3847.00	
Bullnose	3.00			3850.00	19.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

19-6s-25w Graham,KS

PO Box 8037
Wichita KS 67208

Kaus "A" #1-19

Job Ticket: 64127

DST#: 4

ATTN: Larry Nicholson

Test Start: 2017.03.13 @ 06:05:44

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

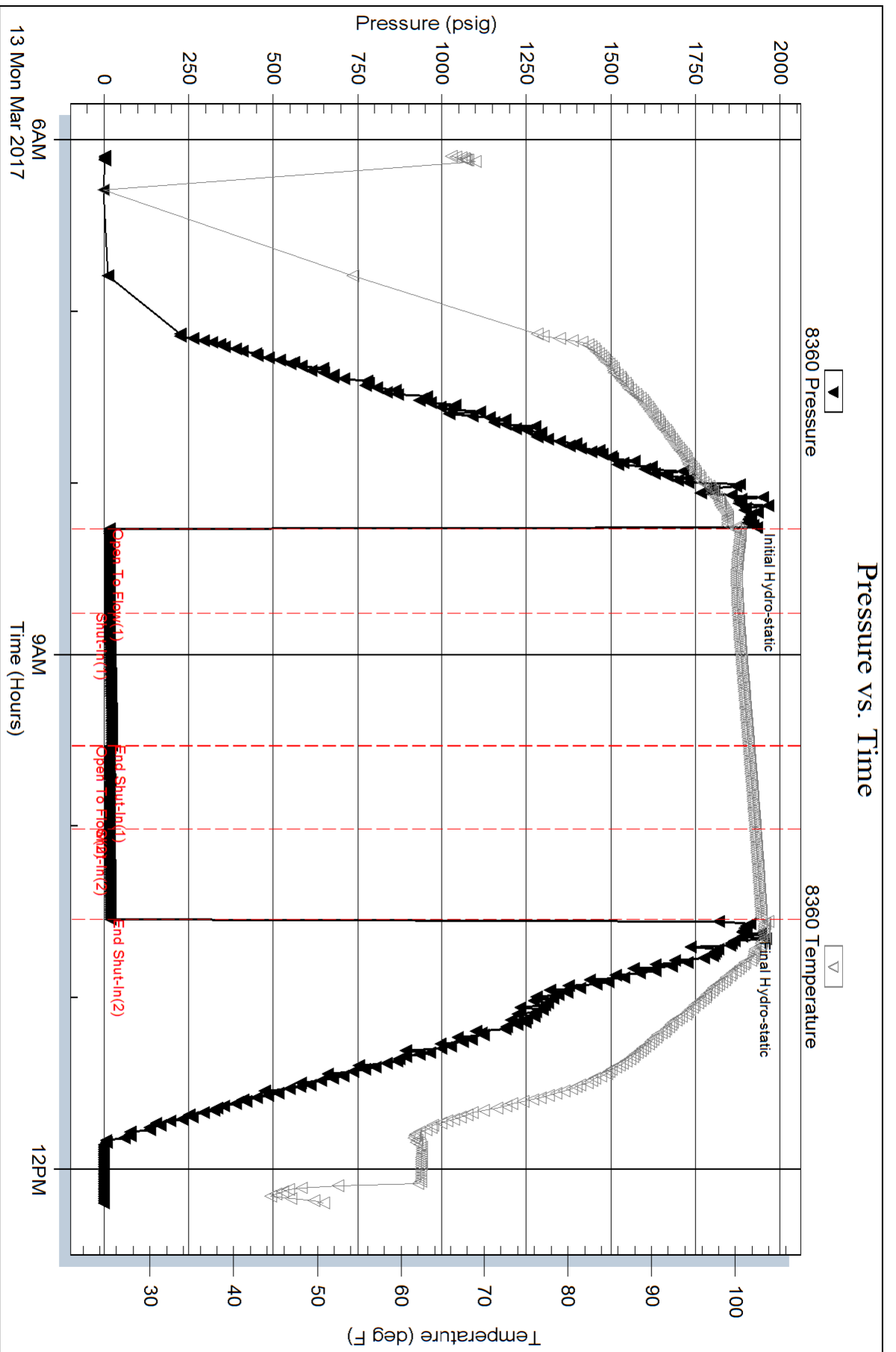
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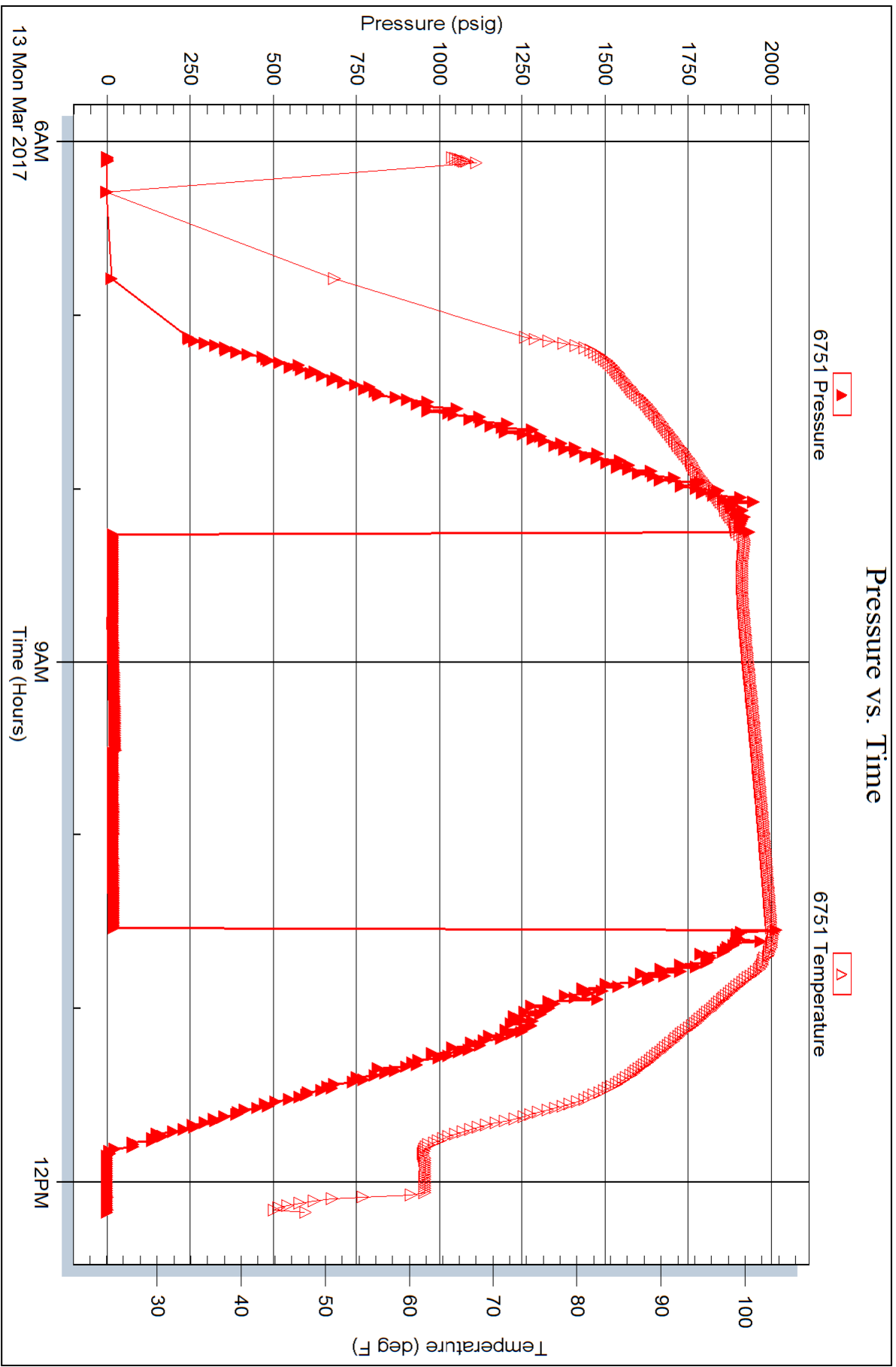
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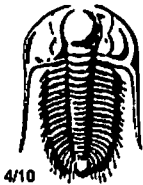
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64098

Well Name & No. KAUS 'A' #1-19 Test No. 1 Date 3-11-17
 Company Cobalt Energy LLC Elevation 2596 KB 2591 GL
 Address 115 S. Belmont #12 PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. LARRY NICHOLSON Rig MURFIN RIG 7
 Location: Sec. 19 Twp. 6^s Rge. 25^w Co. GRAHAM State K

Interval Tested 3695-3732 Zone Tested LKG B-C
 Anchor Length 37 Drill Pipe Run 3491 Mud Wt. 9
 Top Packer Depth 3690 Drill Collars Run 180 Vis 57
 Bottom Packer Depth 3695 Wt. Pipe Run - WL 6.8
 Total Depth 3732 Chlorides 900 ppm System LCM 2[#]
 Blow Description IFP - WEAK TO A GOOD BLOW 1/2" TO 9" BLOW
ESTP - NO BLOW
FFP - WEAK TO A GOOD BLOW SURFACE TO 7" BLOW
FSTP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>CO</u>				
<u>180</u>	<u>MW w/show foil</u>			<u>80</u>	<u>20</u>
<u>186</u>	<u>WATER</u>				
<u>367</u>	<u>BHT 111</u>				

Gravity - API RW .13 @ 65 ° F Chlorides 63000 ppm
 (A) Initial Hydrostatic 1820
 (B) First Initial Flow 23
 (C) First Final Flow 112
 (D) Initial Shut-In 918
 (E) Second Initial Flow 117
 (F) Second Final Flow 186
 (G) Final Shut-In 906
 (H) Final Hydrostatic 1814

Test 1050
 Jars 250
 Safety Joint 75
 Circ Sub
 Hourly Standby
 Mileage 175 RT 124rt 93
 Sampler
 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1468

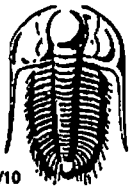
T-On Location 0045
 T-Started 0405
 T-Open 0625
 T-Pulled 1010
 T-Out 1220
 Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1468
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90

Approved By _____

Our Representative Ray Schwager Thank 904

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. 64099

Well Name & No. Kaus "A" #1-19 Test No. 2 Date 3-11-17
 Company Cobalt Energy LLC Elevation 2596 KB 2591 GL
 Address 115 S. Belmont #12 PO Box 8037 Wichita, KS 67228
 Co. Rep / Geo. LARRY NICHOLSON Rig MURFIN 1197
 Location: Sec. 19 Twp. 6^s Rge. 25^w Co. GRAHAM State Ks

Interval Tested 3731-3762 Zone Tested LKC E-G
 Anchor Length 31 Drill Pipe Run 3552 Mud Wt. 9.1
 Top Packer Depth 3726 Drill Collars Run 180 Vis 57
 Bottom Packer Depth 3731 Wt. Pipe Run - WL 6.8
 Total Depth 3762 Chlorides 1000 ppm System LCM 2#
 Blow Description IFP - WEAK TO A FAIR BLOW 1/2" TO 6" BLOW
ISIP - NO BLOW
FFP - WEAK TO A FAIR BLOW 1/4" TO 5" BLOW
FSTIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>GIP</u>				
<u>20</u>	<u>CO</u>				
<u>90</u>	<u>SOCMW</u>		<u>5</u>	<u>70</u>	<u>25</u>
<u>186</u>	<u>WATER</u>				

Rec Total 296 BHT 111 Gravity 29 API RW .21 @ 60 °F Chlorides 42000 ppm

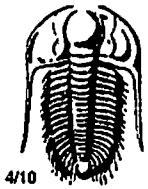
(A) Initial Hydrostatic <u>1836</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1900</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1940</u>
(C) First Final Flow <u>89</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2150</u>
(D) Initial Shut-In <u>1191</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0135</u>
(E) Second Initial Flow <u>94</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0508</u>
(F) Second Final Flow <u>148</u>	<input checked="" type="checkbox"/> Mileage <u>93</u>	Comments <u>Time change</u>
(G) Final Shut-In <u>1176</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1822</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1468</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1468</u>	

Approved By _____

Our Representative RAY SCHWAGN

THANK YOU

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. 64100

Well Name & No. KAUS "A" #1-19 Test No. 3 Date 3-12-17
 Company Cobalt Energy LLC Elevation 2596 KB 2591 GL
 Address 115 S. BELMONT #12 PO Box 8037 WICHITA, KS 67208
 Co. Rep / Geo. LARRY NICHOLSON Rig MURFIN 197
 Location: Sec. 19 Twp. 6 Rge. 25 Co. GRAHAM State Ks

Interval Tested 3779-3834 Zone Tested LKC H-J
 Anchor Length 55 Drill Pipe Run 3585 Mud Wt. 9.2
 Top Packer Depth 3774 Drill Collars Run 180 Vis 57
 Bottom Packer Depth 3779 Wt. Pipe Run - WL 7.6
 Total Depth 3834 Chlorides 2100 ppm System LCM 2#

Blow Description IFF - WEAK TO BOB IN 25 MIN
ISIP - NO BLOW
FFP - WEAK TO BOB IN 50 MIN
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>GIP</u>				
<u>50</u>	<u>OCWM</u>		<u>6</u>	<u>75</u>	<u>19</u>
<u>60</u>	<u>SOCM</u>		<u>1</u>	<u>85</u>	<u>14</u>
<u>360</u>	<u>WATER</u>				
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 470 BHT 112 Gravity - API RW .16 @ 60 °F Chlorides 53000 ppm

(A) Initial Hydrostatic 1870
 (B) First Initial Flow 25
 (C) First Final Flow 138
 (D) Initial Shut-In 1108
 (E) Second Initial Flow 140
 (F) Second Final Flow 245
 (G) Final Shut-In 1079
 (H) Final Hydrostatic 1816

Test 1050
 Jars 250
 Safety Joint 75
 Circ Sub
 Hourly Standby
 Mileage 93
 Sampler
 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1468

T-On Location 1340
 T-Started 1435
 T-Open 1640
 T-Pulled 2025
 T-Out 2232

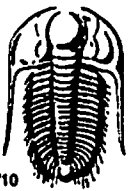
Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1468
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90

Approved By _____

Our Representative RAY SCHWARTZ THANK YOU

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64127

Well Name & No. Kaus "A" 1-19 Test No. 4 Date 3-13-17
 Company Cobalt Energy LLC Elevation 2596 KB 2591 GL
 Address 115 S. Belmont #12 PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin rig 7
 Location: Sec. 19 Twp. 6^s Rge. 25^w Co. Graham State K

Interval Tested 3831-3850 Zone Tested LKC K
 Anchor Length 19 Drill Pipe Run 3648 Mud Wt. 9.2
 Top Packer Depth 3826 Drill Collars Run 180 Vis 59
 Bottom Packer Depth 3831 Wt. Pipe Run - WL 7.6
 Total Depth 3850 Chlorides 2100 ppm System LCM 2#
 Blow Description IFP - Weak Blow thru-out 1/4" to surface blow
ISIP - NO Blow
FFP - NO Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud</u>				

Rec Total 1 BHT 103 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1906</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0530</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0605</u>
(C) First Final Flow <u>16</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0815</u>
(D) Initial Shut-In <u>23</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1030</u>
(E) Second Initial Flow <u>16</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1211</u>
(F) Second Final Flow <u>16</u>	<input checked="" type="checkbox"/> Mileage <u>93</u>	Comments
(G) Final Shut-In <u>19</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1894</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1468</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't

Sub Total 1468

Approved By _____ Our Representative Ray Schwager Thank you

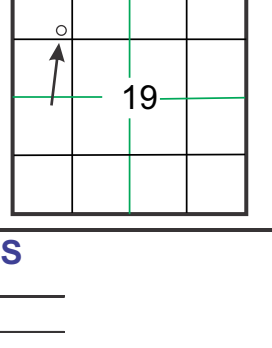
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GEOLOGICAL REPORT

Larry A. Nicholson

NAD 83
39 51987004
-100.157561

COMPANY Cobalt Energy, LLC
 API # 15-065-24128 FIELD Wildcat
 LEASE Kaus WELL # "A" #1-19
 LOCATION SE SE NW NW
 SURVEY 1281 FNL 1314 FWL
 SECTION 19 TWP 6S RGE 25W
 COUNTY Graham STATE Kansas



CONTRACTOR Murfin Drilling Company, Inc. Rig # Z
 SPUD 6:30 pm 3-7-17 COMP. _____
 RTD 3:28 5:22 pm 03-13-17 LTD. 3:28
 MUD UP AT 3135 700bbbl
 MUD TYPE Chemical MudCo Schmidtberger

ELEVATIONS
 K.B. 2596
 D.F. _____
 G.L. 2591
 All measurements from K.B. 2596

SAMPLES SAVED FROM 3400 TO RTD
 DRILLING TIME FROM 3400 TO RTD
 SAMPLES EXAMINED FROM 3400 TO RTD
 GEOLOGICAL SUPERVISION FROM 3400 TO RTD
 WELLSITE GEOLOGIST LARRY A. NICHOLSON

CASING RECORD
 Conductor _____ of _____ sx
 Surface 340 of 8.5/8 23# w/ 210 _____ sx
 Production _____ of _____ w/ _____ sx

ELECTRICAL SURVEYS Pioneer, Den, Neu, Dual, Micro

FORMATION TOPS & STRUCTURAL POSITION

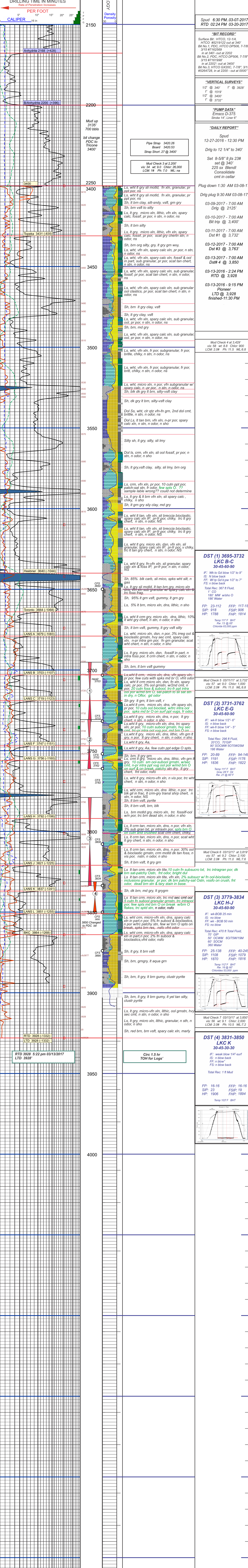
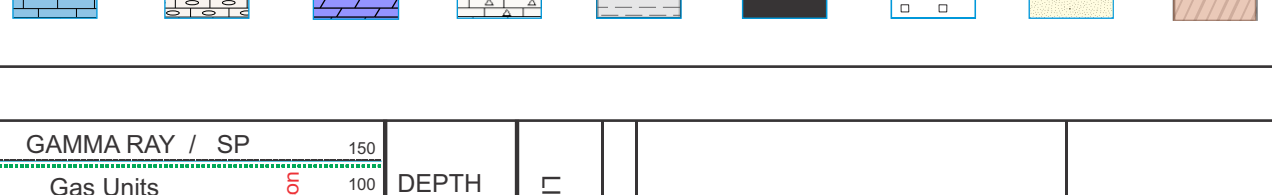
FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELEC LOG TOPS	SUBSEA DATUM	REFERENCE WELL	
					A	B
Anhydrite			2168	+428	2186	+431 -4
B/Anhydrite			2200	+396	2218	+399 -3
Topeka			3431	-835	3456	-839 +3
Heebner			3640	-1044	3658	-1041 -6
LANS A			3679	-1083	3698	-1081 -3
LANS G			3756	-1160	3772	-1155 -5
LANS H			3792	-1196	3808	-1191 -5
LANS J			3821	-1225	3838	-1221 -4
LANS K			3837	-1241	3852	-1235 -6
LANS L			3851	-1255	3868	-1251 -4
BKC			3864	-1268	3882	-1265 -3
RTD			3928	-1332	3970	-1353
LTD			3928	-1332	3970	-1353

REFERENCE WELLS
 A: Cobalt Energy, LLC Caroline "A" #1-19 Sec 19 T6S R25W 570' FNL 743 FEL KB 2617
 B: _____

REMARKS & RECOMMENDATIONS:
Based on sample shows, dst recovery & pressures, the well was P&A

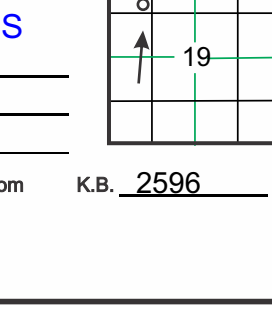
LAN 7/92, Modified 5/05, 11/11, 4/12 Hanover, KS 66945 1inch = 25.4mm 8.5 x 9.75 216 mm x 2460 mm

LEGEND



COMPANY Cobalt Energy, LLC
 LEASE Kaus "A" #1-19 SE SE NW NW
 LOCATION 1281 FNL 1314 FWL SEC. 19 TWP 6S RGE 25W
 COUNTY Graham STATE Ks

ELEVATIONS
 K.B. 2596
 D.F. _____
 G.L. 2591
 All measurements from K.B. 2596





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

7702
7406

TICKET NUMBER 51709
LOCATION Oakley KS
FOREMAN Jerry V

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 809776 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-7-17	2180	Kaus A" 1-19	19	6S	25W	Graham
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Cobalt Energy			731	Cory D		
Mailing Address			566	Steve O		
P.O. Box 887			639			
CITY	STATE	ZIP CODE				
Michita	KS	67208				

Studley
N to BB
turn at
tasks
not on BB
EOS, etc

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 340 CASING SIZE & WEIGHT 8 5/8 25#
 CASING DEPTH 340 DRILL PIPE TUBING OTHER
 SLURRY WEIGHT 14.8 SLURRY VOL 1.24 WATER gal/sk CEMENT LEFT in CASING 20'
 DISPLACEMENT 20 bbl DISPLACEMENT PSI MIX PSI RATE

REMARKS: Safety meeting & rig upon Mu. Sin 7 break circulation with right tree mix 210 sks surface blend II wash up & displace with 20 bbl fresh 110 and shut in.

found cement in the Celler

Thank you
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150.00	1150.00
CE0002	35	MILEAGE	7.12	250.25
CE0711	9.87	ton mileage delivery min	66.00	660.00
CC5871	210 sks	surface blend FF	23.00	4830.00
CP8556	2	8 5/8 centralizers	110.00	220.00
CC5326	100#	Salt	NA	NA
			Subtotal	7110.25
			-40%	2844.10
			Subtotal	4266.15
			SALES TAX	227.25
			ESTIMATED TOTAL	4493.40

Ravin 3737

AUTHORIZATION Kelly Wilson TITLE Pusher DATE 3-8-17

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



68288

Remit to:
BJ Services LLC
P.O. Box 733585
Dallas, TX 75373-3585

TAX ID 81-1373543

SERVICE POINT:

Oakley

DATE: <u>3-14-17</u>	SEC. <u>19</u>	TWP. <u>6S</u>	RANGE <u>25W</u>	CALLED OUT	ON LOCATION <u>4:30 Am</u>	JOB START <u>7:00 Am</u>	JOB FINISH <u>8:00 Am</u>
LEASE <u>KaUSA</u>	WELL # <u>1-19</u>	LOCATION <u>study 12N SE into</u>			COUNTY <u>Graham</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR <u>murfin 7</u>	OWNER <u>same</u>
TYPE OF JOB <u>PTA</u>	
HOLE SIZE <u>2 7/8</u>	T.D. <u>3930'</u>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE <u>2 1/2</u>	DEPTH <u>2180'</u>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT	

CEMENT	
AMOUNT ORDERED <u>255 sks 60/40 4999 eL</u>	
<u>1/4 Flo-seal</u>	

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
<u>60/40 4999 eL 255 sks</u>	@	<u>18.92</u>	<u>4824.60</u>
<u>Flo-seal 1/4"</u>	@	<u>2.97</u>	<u>190.08</u>
	@		
	@		
	@		
	@		
	@		

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Andrew</u>
# <u>566-281</u>	HELPER <u>Kevin</u>
BULK TRUCK	
# <u>890</u>	DRIVER <u>Jade</u>
BULK TRUCK	
#	DRIVER

TOTAL

REMARKS:

DISCOUNT %

<u>50 sks @ 2180'</u>
<u>100 sks @ 1420'</u>
<u>50 sks @ 400'</u>
<u>40 sks @ 40'</u>
<u>15 mouse hole</u>
<u>30 Rat hole</u>

Thank you

CHARGE TO: Colbalt Energy

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

585 LING <u>274 cu/ft</u>	@ <u>2.48</u>	<u>679.52</u>
MILEAGE <u>2.75 ton/mile 12 ton</u>		<u>2145.00</u>
DEPTH OF JOB <u>2180'</u>		
PUMP TRUCK CHARGE		<u>2483.59</u>
EXTRA FOOTAGE	@	
HV MILEAGE <u>65 miles</u>	@ <u>7.70</u>	<u>500.50</u>
LV MILEAGE <u>65 miles</u>	@ <u>4.40</u>	<u>286.00</u>
	@	
	@	

TOTAL

DISCOUNT %

PLUG & FLOAT EQUIPMENT

<u>8 5/8</u>		
<u>1 Dry hole plug</u>	@	<u>110.00</u>
	@	
	@	
	@	