

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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ROBERT E. O'DELL

Petroleum Geologist

GEOLOGIST'S REPORT

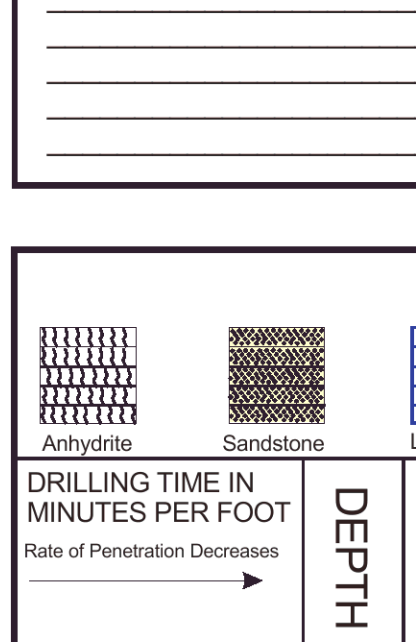
DRILLING TIME AND SAMPLE LOG

COMPANY: **Cobalt Energy LLC**
 LEASE: **Cheyenne 'A' #1**
 FIELD: **Frank North**
 LOCATION: **552' FSL & 338' FWL**
 SEC: **4** TWP: **19S** RGE: **12W**
 COUNTY: **Barton** STATE: **Kansas**

CONTRACTOR: **LD Drilling Rig #1**
 SPUD: **1-7-2019** COMP: **1-15-2019**
 RTD: **3460'** LTD: **3459'**
 MUD UP: **2700'** TYPE MUD: **Chemical**

SAMPLES SAVED FROM: **2700'** TO **RTD**
 DRILLING TIME KEPT FROM: **2800'** TO **RTD**
 SAMPLES EXAMINED FROM: **2700'** TO **RTD**
 GEOLOGICAL SUPERVISION FROM: **2840'** TO **RTD**
 GEOLOGIST ON WELL: **Bob O'Dell**

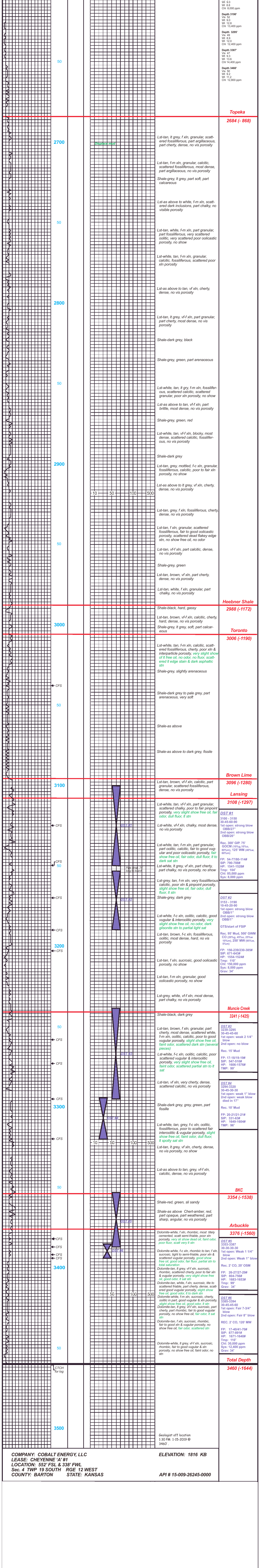
FORMATION TOPS	ELECTRIC LOG	SAMPLE
Topeka	2682' (- 866)	2684' (- 868)
Heebner	2987' (-1171)	2988' (-1172)
Brown Lime	3096' (-1280)	3096' (-1280)
Lansing	3108' (-1292)	3108' (-1292)
BKC	3354' (-1539)	3354' (-1539)
Arbuckle	3366' (-1550)	3376' (-1560)
Total Depth	3459' (-1643)	3460' (-1644)



REMARKS: *Due to the drillstem tests & electric log analysis, decision was made to plug and abandon this test on 1-15-2019.*

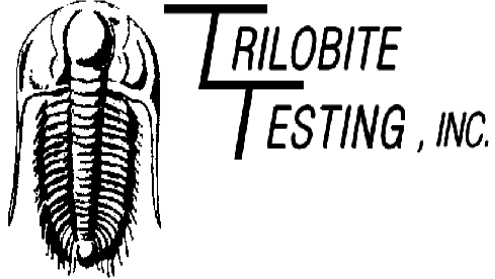
Respectfully Submitted,

Bob O'Dell



COMPANY: COBALT ENERGY, LLC
 LEASE: CHEYENNE 'A' #1
 LOCATION: 552' FSL & 338' FWL
 Sec. 4 TWP 19 SOUTH RGE 12 WEST
 COUNTY: BARTON STATE: KANSAS

ELEVATION: 1816 KB
 API # 15-009-26245-0000



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Bob O'Dell

Cheyenne "A" #1-4

4-19S-12W Barton,KS

Start Date: 2019.01.11 @ 07:10:53

End Date: 2019.01.11 @ 15:51:43

Job Ticket #: 65502 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.01.15 @ 16:26:37



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC
 PO Box 8037
 Wichita, KS 67208
 ATTN: Bob O'Dell

4-19S-12W Barton,KS

Cheyenne "A" #1-4

Job Ticket: 65502 **DST#: 1**
 Test Start: 2019.01.11 @ 07:10:53

GENERAL INFORMATION:

Formation: **Lansing "A - B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:20:59
 Time Test Ended: 15:51:43
 Interval: **3100.00 ft (KB) To 3150.00 ft (KB) (TVD)**
 Total Depth: 3150.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 1816.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 5.00 ft

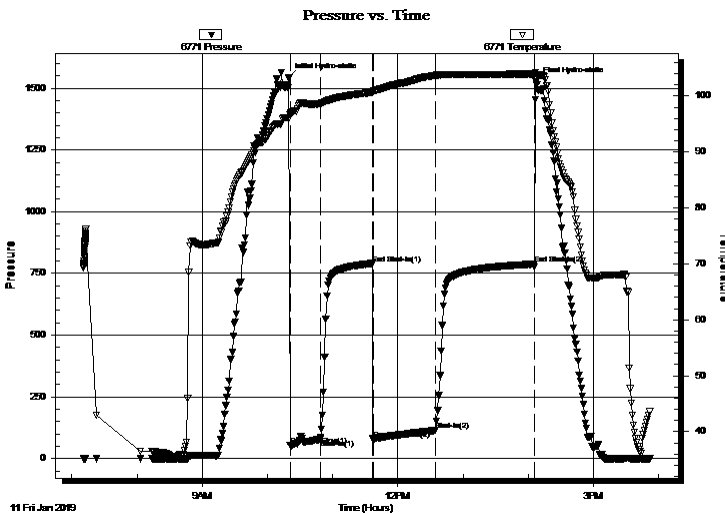
Serial #: 6771

Inside

Press@RunDepth: 113.81 psig @ 3101.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.01.11 End Date: 2019.01.11 Last Calib.: 2019.01.11
 Start Time: 07:10:54 End Time: 15:51:43 Time On Btm: 2019.01.11 @ 10:19:44
 Time Off Btm: 2019.01.11 @ 14:07:14

TEST COMMENT: 30- IF- BOB 27 mins. Slow ly built to 13.90"
 45- IS- Surface blow
 60- FF- BOB 20 mins. Slow ly built to 34.32"
 90- FSI- Built to 1.76"

PRESSURE SUMMARY



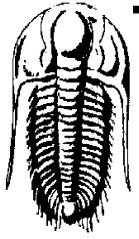
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1541.48	96.08	Initial Hydro-static
2	53.75	96.94	Open To Flow (1)
29	76.98	98.66	Shut-In(1)
77	790.08	100.65	End Shut-In(1)
78	79.56	100.94	Open To Flow (2)
135	113.81	103.69	Shut-In(2)
226	787.66	103.96	End Shut-In(2)
228	1527.95	103.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	WM, 40%W 60%M	1.77
75.00	GOCM, 10%G 10%O 80%M	1.06
0.00	300' GIP	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: Bob O'Dell

4-19S-12W Barton,KS
Cheyenne "A" #1-4
 Job Ticket: 65502 **DST#: 1**
 Test Start: 2019.01.11 @ 07:10:53

GENERAL INFORMATION:

Formation: **Lansing "A - B"**
 Deviased: No Whipstock: ft (KB)
 Time Tool Opened: 10:20:59
 Time Test Ended: 15:51:43
 Interval: **3100.00 ft (KB) To 3150.00 ft (KB) (TVD)**
 Total Depth: 3150.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:

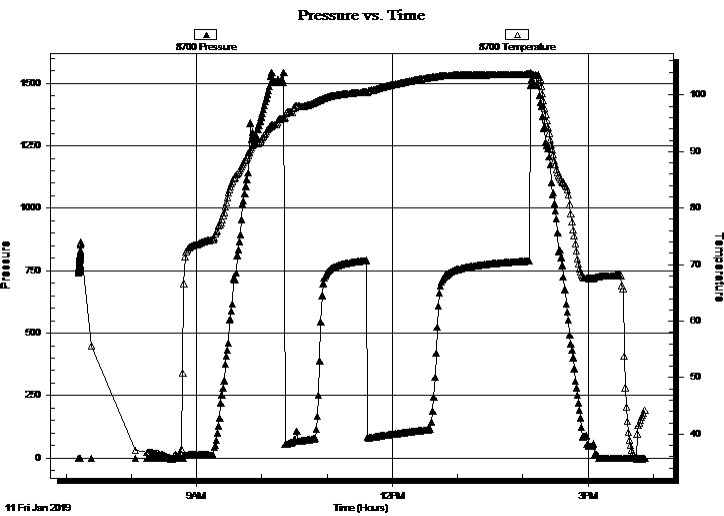
Test Type: Conventional Bottom Hole (Initial)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 1816.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press@RunDepth: psig @ 3101.00 ft (KB)
 Start Date: 2019.01.11 End Date: 2019.01.11
 Start Time: 07:11:22 End Time: 15:52:26

Capacity: 8000.00 psig
 Last Calib.: 2019.01.11
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30- IF- BOB 27 mins. Slow ly built to 13.90"
 45- IS- Surface blow
 60- FF- BOB 20 mins. Slow ly built to 34.32"
 90- FSI- Built to 1.76"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
125.00	WM, 40%W 60%M	1.77
75.00	GOCM, 10%G 10%O 80%M	1.06
0.00	300' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

4-19S-12W Barton,KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

Job Ticket: 65502

DST#: 1

ATTN: Bob O'Dell

Test Start: 2019.01.11 @ 07:10:53

Tool Information

Drill Pipe:	Length: 3091.00 ft	Diameter: 3.82 inches	Volume: 43.82 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 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:	69000.00 lb
			<u>Total Volume:</u>	Tool Chased	10.00 ft
			- bbl	String Weight: Initial	44000.00 lb
Drill Pipe Above KB:	19.00 ft			Final	45000.00 lb
Depth to Top Packer:	3100.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	78.00 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			3073.00	
Shut In Tool	5.00			3078.00	
Hydraulic tool	5.00			3083.00	
Jars	5.00			3088.00	
Safety Joint	3.00			3091.00	
Packer	5.00			3096.00	28.00 Bottom Of Top Packer
Packer	4.00			3100.00	
Stubb	1.00			3101.00	
Recorder	0.00	6771	Inside	3101.00	
Recorder	0.00	8700	Outside	3101.00	
Perforations	13.00			3114.00	
Change Over Sub	1.00			3115.00	
Drill Pipe	31.00			3146.00	
Change Over Sub	1.00			3147.00	
Bullnose	3.00			3150.00	50.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

4-19S-12W Barton,KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

Job Ticket: 65502

DST#: 1

ATTN: Bob O'Dell

Test Start: 2019.01.11 @ 07:10:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

85000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
125.00	WM, 40%W 60%M	1.772
75.00	GOCM, 10%G 10%O 80%M	1.063
0.00	300' GIP	0.000

Total Length: 200.00 ft Total Volume: 2.835 bbl

Num Fluid Samples: 0

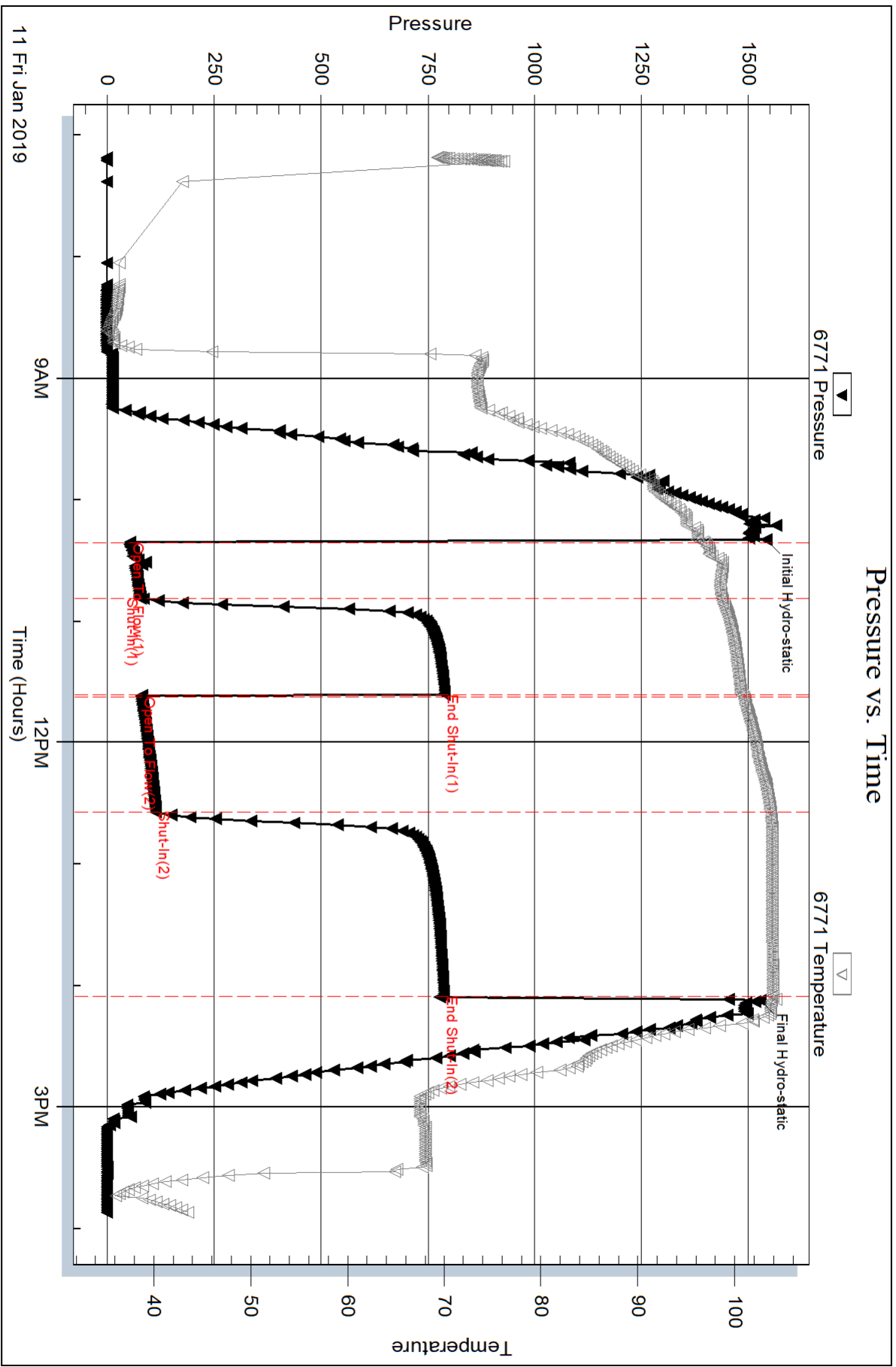
Num Gas Bombs: 0

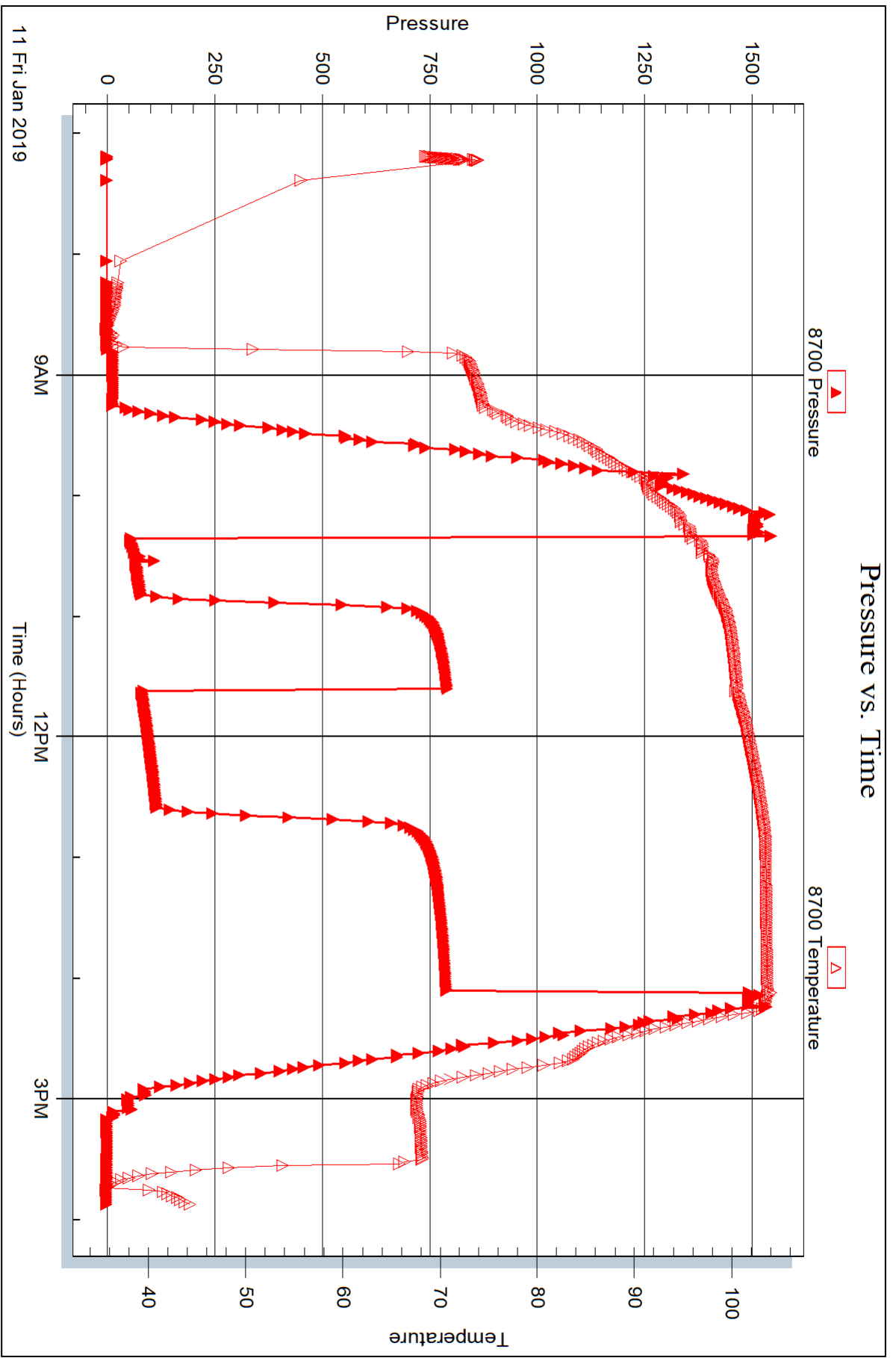
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .10@53deg







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Bob O'Dell

Cheyenne "A" #1-4

4-19S-12W Barton,KS

Start Date: 2019.01.12 @ 00:13:56

End Date: 2019.01.12 @ 07:48:17

Job Ticket #: 65503 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.01.15 @ 16:26:00

Cobalt Energy LLC
4-19S-12W Barton,KS
Cheyenne "A" #1-4
DST # 2
LKC "C - E"
2019.01.12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC
PO Box 8037
Wichita, KS 67208
ATTN: Bob O'Dell

4-19S-12W Barton,KS

Cheyenne "A" #1-4

Job Ticket: 65503

DST#: 2

Test Start: 2019.01.12 @ 00:13:56

GENERAL INFORMATION:

Formation: **LKC "C - E"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:29:02
 Time Test Ended: 07:48:17
 Interval: **3153.00 ft (KB) To 3190.00 ft (KB) (TVD)**
 Total Depth: 3190.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 1816.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 5.00 ft

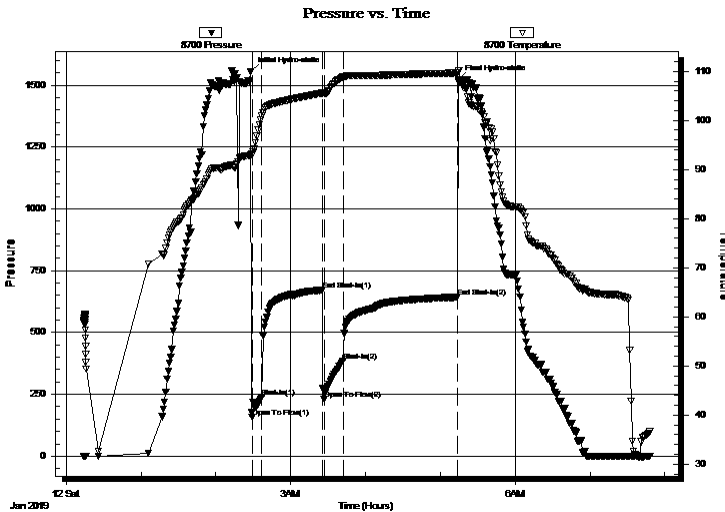
Serial #: 8700

Outside

Press@RunDepth: 385.29 psig @ 3154.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.01.12 End Date: 2019.01.12 Last Calib.: 2019.01.12
 Start Time: 00:13:57 End Time: 07:48:17 Time On Btm: 2019.01.12 @ 02:28:02
 Time Off Btm: 2019.01.12 @ 05:14:17

TEST COMMENT: 10- IF- BOB 1 min. Built to 179.41"
 45- IS- BOB 19 mins. Built to 31.06"
 20- FF- BOB 1 min. Built to 299.43"
 90- FSI- BOB 9 mins. Built to 253.46" GTS

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1553.64	92.95	Initial Hydro-static
1	156.38	93.13	Open To Flow (1)
9	238.54	100.91	Shut-In(1)
58	671.43	105.57	End Shut-In(1)
59	229.83	105.53	Open To Flow (2)
74	385.29	108.80	Shut-In(2)
166	643.13	109.65	End Shut-In(2)
167	1524.10	110.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	SMW, 5%M 95%W	3.54
500.00	GWMCO, 20%G 25%W 10%M 45%O	7.09
95.00	M	1.35
0.00	GTS	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

4-19S-12W Barton,KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

Job Ticket: 65503

DST#: 2

ATTN: Bob O'Dell

Test Start: 2019.01.12 @ 00:13:56

Tool Information

Drill Pipe:	Length: 3153.00 ft	Diameter: 3.82 inches	Volume: 44.70 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 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:</u>	Tool Chased	15.00 ft
			- bbl	String Weight: Initial	44000.00 lb
Drill Pipe Above KB:	28.00 ft			Final	47000.00 lb
Depth to Top Packer:	3153.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	37.00 ft				
Tool Length:	65.00 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			3126.00	
Shut In Tool	5.00			3131.00	
Hydraulic tool	5.00			3136.00	
Jars	5.00			3141.00	
Safety Joint	3.00			3144.00	
Packer	5.00			3149.00	28.00 Bottom Of Top Packer
Packer	4.00			3153.00	
Stubb	1.00			3154.00	
Recorder	0.00	6771	Inside	3154.00	
Recorder	0.00	8700	Outside	3154.00	
Perforations	1.00			3155.00	
Change Over Sub	1.00			3156.00	
Drill Pipe	30.00			3186.00	
Change Over Sub	1.00			3187.00	
Bullnose	3.00			3190.00	37.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

4-19S-12W Barton,KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

Job Ticket: 65503

DST#: 2

ATTN: Bob O'Dell

Test Start: 2019.01.12 @ 00:13:56

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

150000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
250.00	SMW, 5%M 95%W	3.544
500.00	GWMCO, 20%G 25%W 10%M 45%O	7.088
95.00	M	1.347
0.00	GTS	0.000

Total Length: 845.00 ft Total Volume: 11.979 bbl

Num Fluid Samples: 0

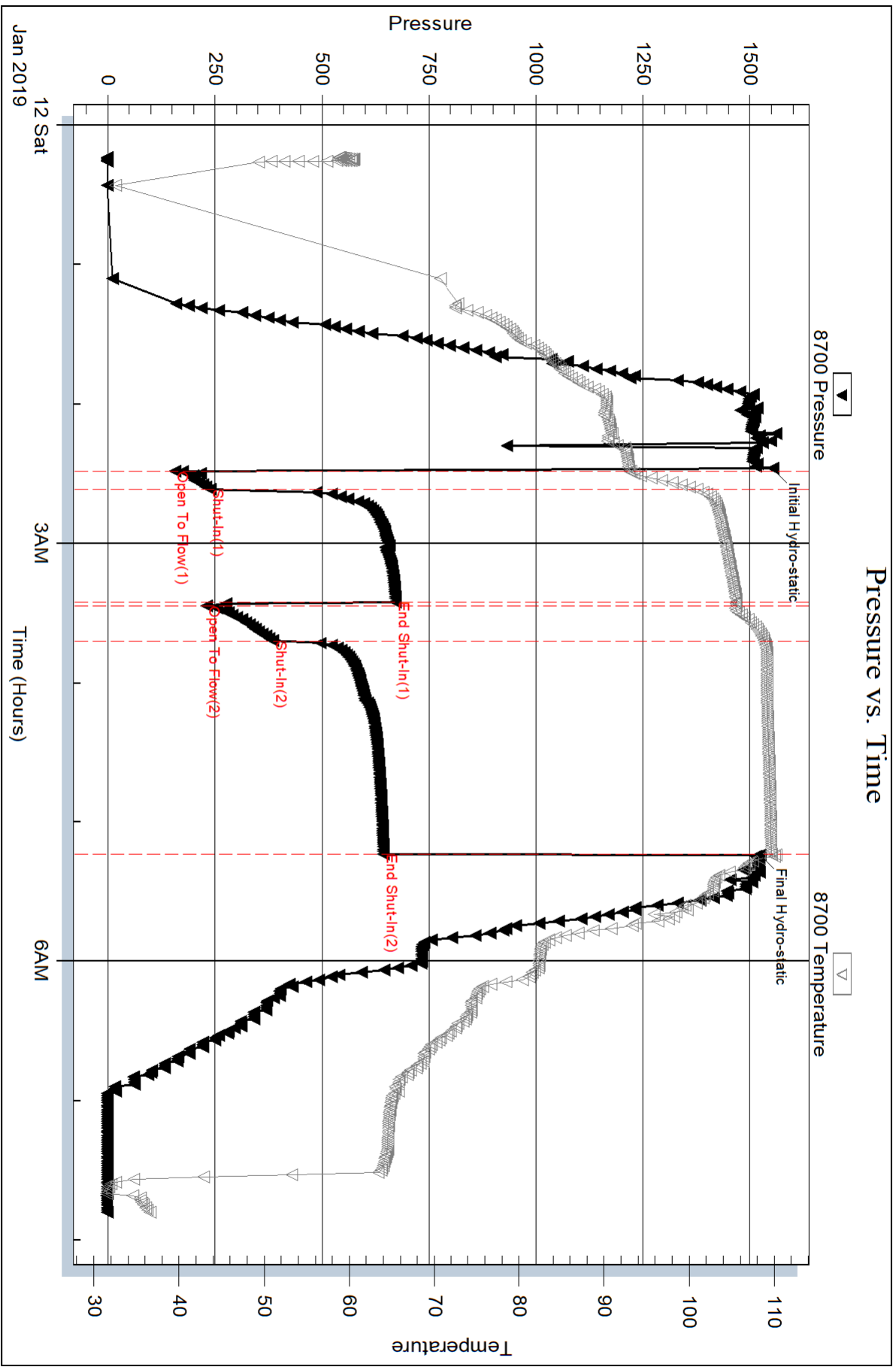
Num Gas Bombs: 0

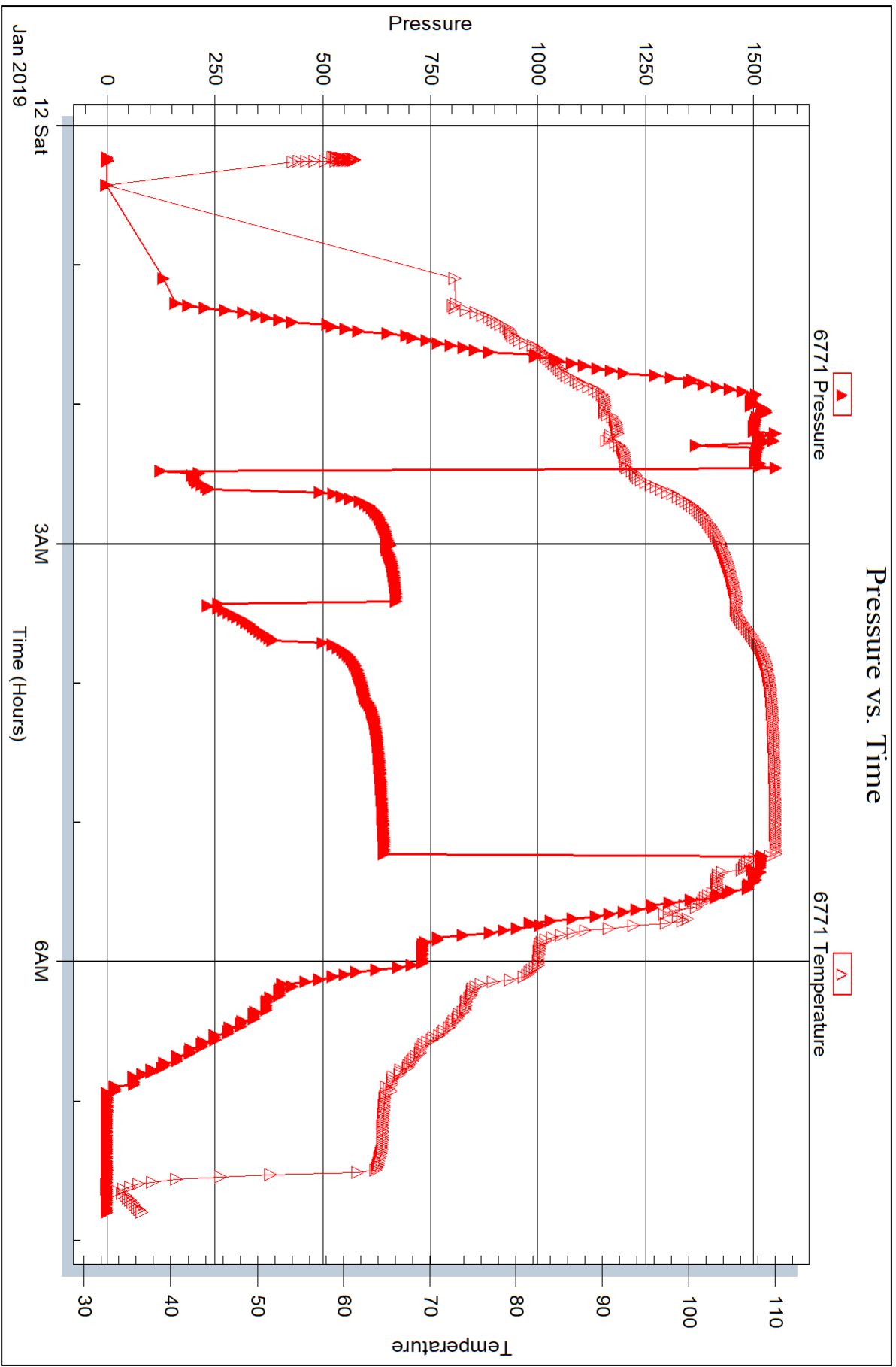
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .08@44deg







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Bob O'Dell

Cheyenne "A" #1-4

4-19S-12W Barton,KS

Start Date: 2019.01.12 @ 21:13:31

End Date: 2019.01.13 @ 04:53:37

Job Ticket #: 65504 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.01.15 @ 16:25:18



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC
PO Box 8037
Wichita, KS 67208
ATTN: Bob O'Dell

4-19S-12W Barton,KS

Cheyenne "A" #1-4

Job Ticket: 65504 **DST#: 3**
Test Start: 2019.01.12 @ 21:13:31

GENERAL INFORMATION:

Formation: **LKC "H - I"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 23:50:07 Tester: Brannan Lonsdale
Time Test Ended: 04:53:37 Unit No: 73
Interval: 3239.00 ft (KB) To 3295.00 ft (KB) (TVD) Reference Elevations: 1816.00 ft (KB)
Total Depth: 3295.00 ft (KB) (TVD) 1811.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

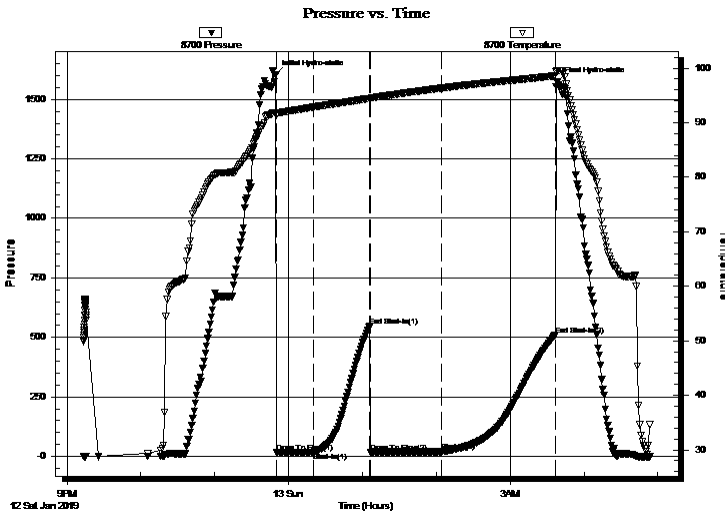
Serial #: 8700

Outside

Press@RunDepth: 19.37 psig @ 3240.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.01.12 End Date: 2019.01.13 Last Calib.: 2019.01.13
Start Time: 21:13:32 End Time: 04:53:37 Time On Btm: 2019.01.12 @ 23:49:37
Time Off Btm: 2019.01.13 @ 03:38:07

TEST COMMENT: 30- IF- Slowly built to 2.22"
45- IS- No blow
60- FF- No blow
90- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1604.91	91.75	Initial Hydro-static
1	16.75	91.34	Open To Flow (1)
31	18.27	92.85	Shut-In(1)
77	547.15	94.45	End Shut-In(1)
77	18.63	94.41	Open To Flow (2)
135	19.37	96.33	Shut-In(2)
227	510.38	98.59	End Shut-In(2)
229	1575.69	99.55	Final Hydro-static

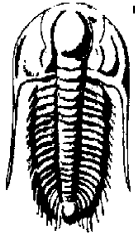
Recovery

Length (ft)	Description	Volume (bbl)
15.00	M	0.21

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

4-19S-12W Barton,KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

ATTN: Bob O'Dell

Job Ticket: 65504

DST#: 3

Test Start: 2019.01.12 @ 21:13:31

GENERAL INFORMATION:

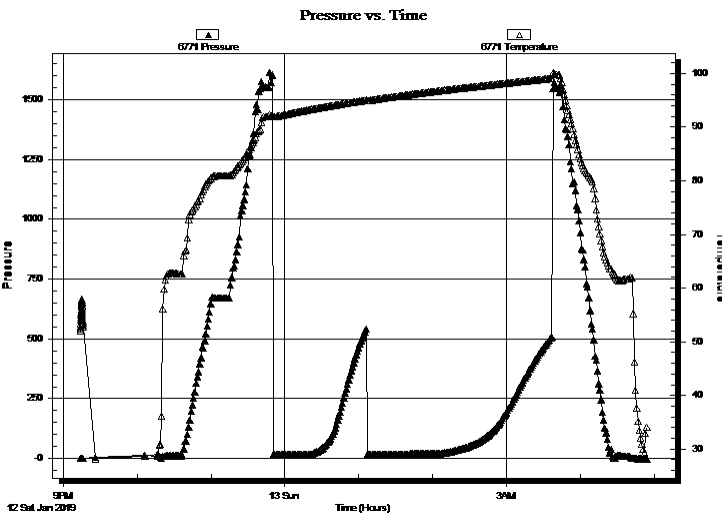
Formation: **LKC "H - I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:50:07
 Time Test Ended: 04:53:37
 Interval: **3239.00 ft (KB) To 3295.00 ft (KB) (TVD)**
 Total Depth: 3295.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 1816.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

Press@RunDepth: psig @ 3240.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.01.12 End Date: 2019.01.13 Last Calib.: 2019.01.13
 Start Time: 21:14:00 End Time: 04:54:05 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30- IF- Slowly built to 2.22"
 45- IS- No blow
 60- FF- No blow
 90- FS- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	M	0.21

* 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

4-19S-12W Barton,KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

Job Ticket: 65504

DST#: 3

ATTN: Bob O'Dell

Test Start: 2019.01.12 @ 21:13:31

Tool Information

Drill Pipe:	Length: 3216.00 ft	Diameter: 3.82 inches	Volume: 45.59 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 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:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3239.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	84.00 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			3212.00	
Shut In Tool	5.00			3217.00	
Hydraulic tool	5.00			3222.00	
Jars	5.00			3227.00	
Safety Joint	3.00			3230.00	
Packer	5.00			3235.00	28.00 Bottom Of Top Packer
Packer	4.00			3239.00	
Stubb	1.00			3240.00	
Recorder	0.00	6771	Inside	3240.00	
Recorder	0.00	8700	Outside	3240.00	
Perforations	19.00			3259.00	
Change Over Sub	1.00			3260.00	
Drill Pipe	31.00			3291.00	
Change Over Sub	1.00			3292.00	
Bullnose	3.00			3295.00	56.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

4-19S-12W Barton,KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

Job Ticket: 65504

DST#: 3

ATTN: Bob O'Dell

Test Start: 2019.01.12 @ 21:13:31

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 13400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	M	0.213

Total Length: 15.00 ft Total Volume: 0.213 bbl

Num Fluid Samples: 0

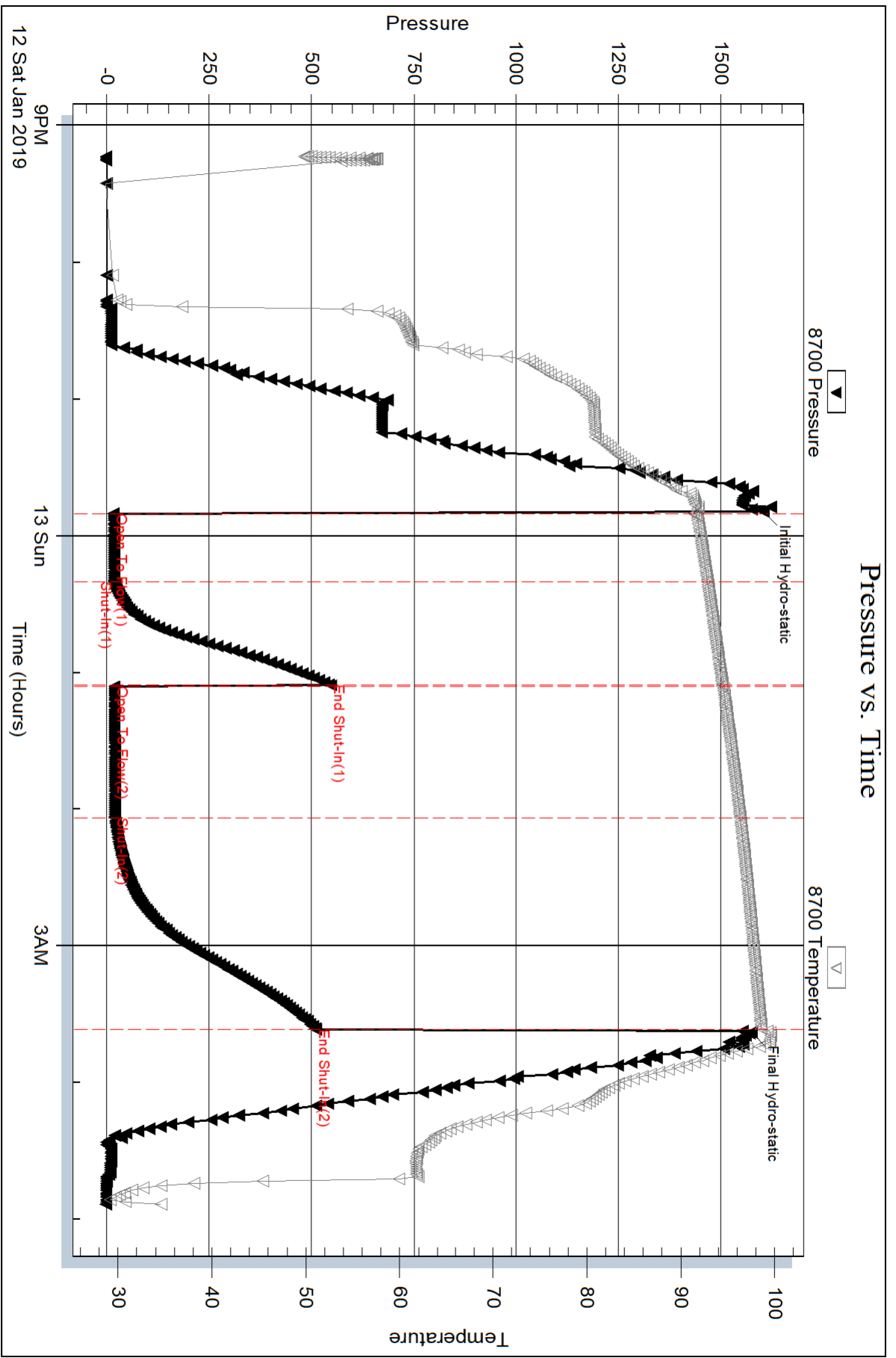
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



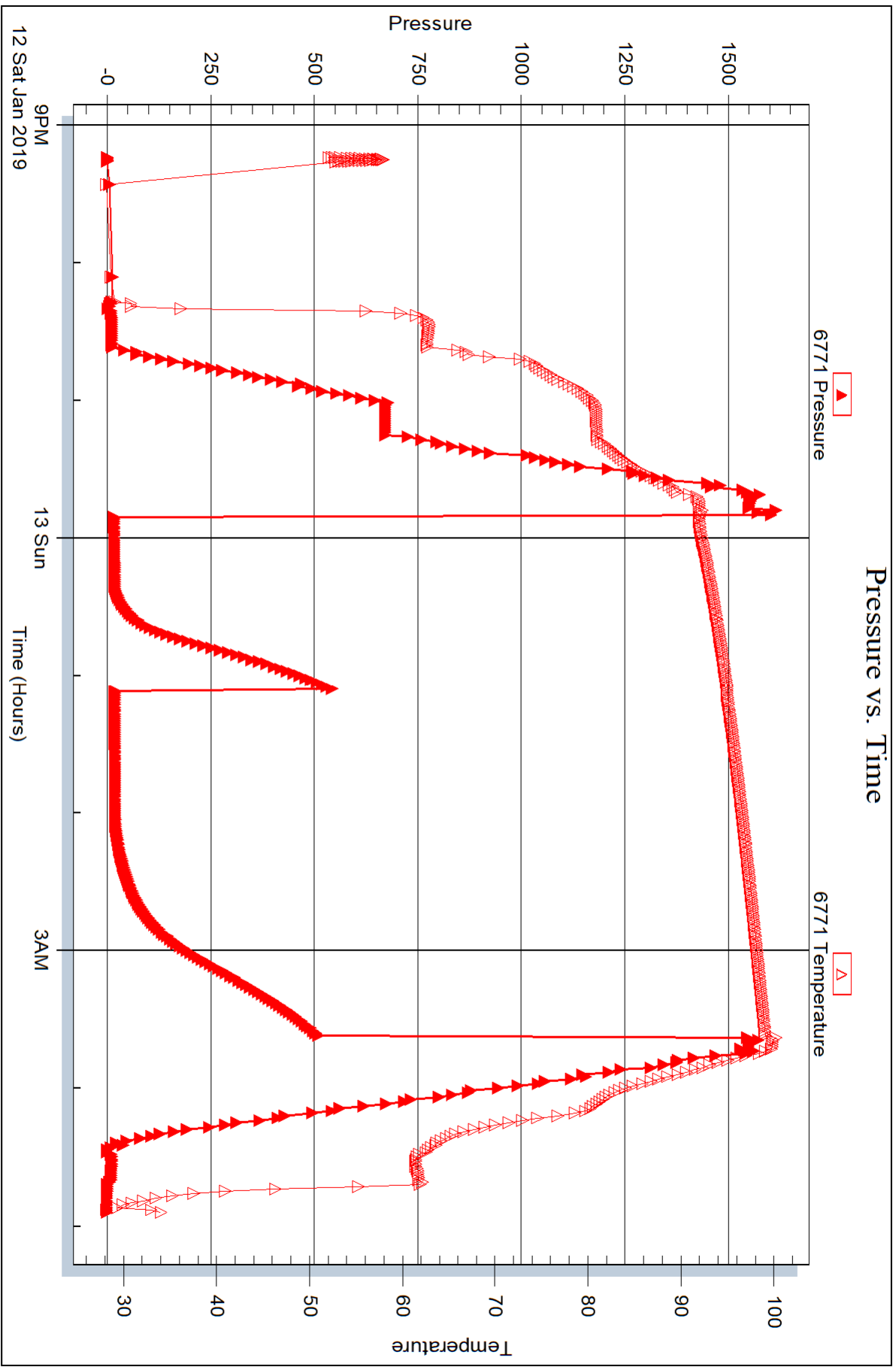
Serial #: 6771

Inside

Cobalt Energy LLC

Cheyenne "A" #1-4

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65504

Printed: 2019.01.15 @ 16:25:19



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Bob O'Dell

Cheyenne "A" #1-4

4-19S-12W Barton,KS

Start Date: 2019.01.13 @ 12:24:14

End Date: 2019.01.13 @ 18:04:20

Job Ticket #: 65505 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.01.15 @ 16:18:25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

4-19S-12W Barton,KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

ATTN: Bob O'Dell

Job Ticket: 65505

DST#: 4

Test Start: 2019.01.13 @ 12:24:14

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:18:20

Time Test Ended: 18:04:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3294.00 ft (KB) To 3320.00 ft (KB) (TVD)

Reference Elevations: 1816.00 ft (KB)

Total Depth: 3320.00 ft (KB) (TVD)

1811.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press@RunDepth: 21.03 psig @ 3295.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.01.13 End Date: 2019.01.13

Last Calib.: 2019.01.13

Start Time: 12:24:15 End Time: 18:04:20

Time On Btm: 2019.01.13 @ 14:17:35

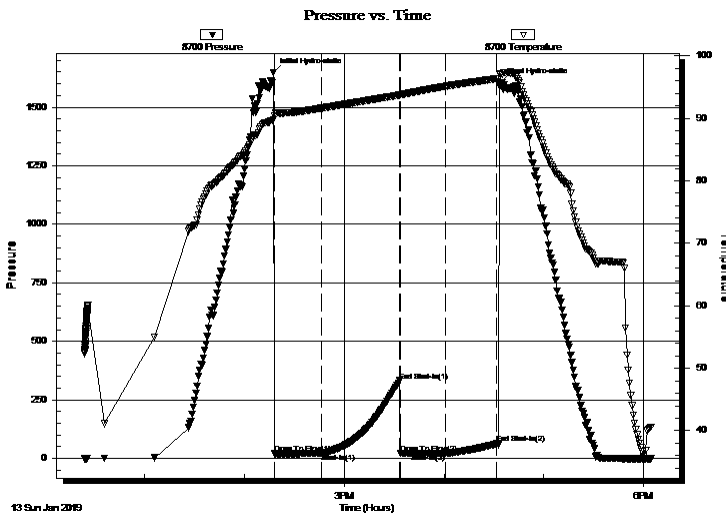
Time Off Btm: 2019.01.13 @ 16:33:50

TEST COMMENT: 30- IF- Slowly built to 0.88"

45- IS- No blow

30- FF- Surface blow died 17mins

30- FSI- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1648.66	89.75	Initial Hydro-static
1	19.69	90.45	Open To Flow (1)
29	20.62	91.62	Shut-In(1)
76	331.34	93.75	End Shut-In(1)
77	20.92	93.77	Open To Flow (2)
104	21.03	95.13	Shut-In(2)
134	62.62	96.36	End Shut-In(2)
137	1604.38	96.92	Final Hydro-static

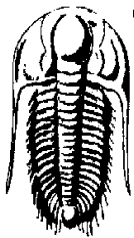
Recovery

Length (ft)	Description	Volume (bbl)
10.00	M	0.14

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

4-19S-12W Barton,KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

ATTN: Bob O'Dell

Job Ticket: 65505

DST#: 4

Test Start: 2019.01.13 @ 12:24:14

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:18:20

Time Test Ended: 18:04:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3294.00 ft (KB) To 3320.00 ft (KB) (TVD)

Total Depth: 3320.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1816.00 ft (KB)

1811.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

Press@RunDepth: psig @ 3295.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.01.13

End Date:

2019.01.13

Last Calib.:

2019.01.13

Start Time: 12:24:02

End Time:

18:03:52

Time On Btm:

Time Off Btm:

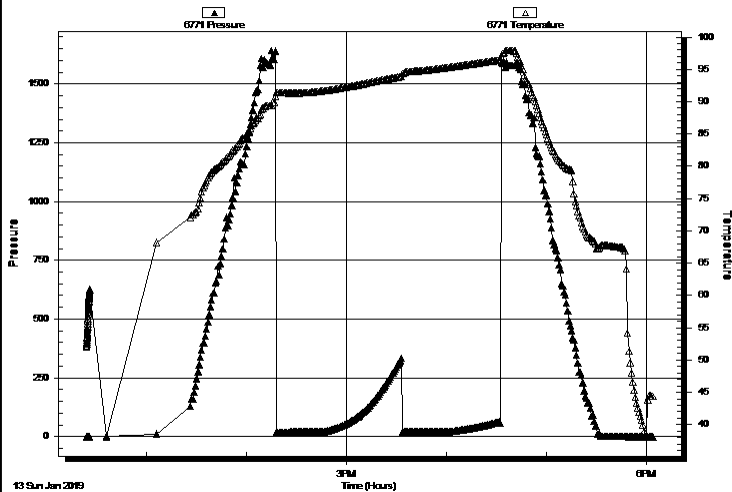
TEST COMMENT: 30- IF- Slowly built to 0.88"

45- IS- No blow

30- FF- Surface blow died 17mins

30- FSI- No blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M	0.14

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

4-19S-12W Barton,KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

Job Ticket: 65505

DST#: 4

ATTN: Bob O'Dell

Test Start: 2019.01.13 @ 12:24:14

Tool Information

Drill Pipe:	Length: 3279.00 ft	Diameter: 3.82 inches	Volume: 46.48 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 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:</u>	Tool Chased	3.00 ft
			- bbl	String Weight: Initial	45000.00 lb
Drill Pipe Above KB:	13.00 ft			Final	45000.00 lb
Depth to Top Packer:	3294.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	54.00 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			3267.00	
Shut In Tool	5.00			3272.00	
Hydraulic tool	5.00			3277.00	
Jars	5.00			3282.00	
Safety Joint	3.00			3285.00	
Packer	5.00			3290.00	28.00 Bottom Of Top Packer
Packer	4.00			3294.00	
Stubb	1.00			3295.00	
Recorder	0.00	6771	Inside	3295.00	
Recorder	0.00	8700	Outside	3295.00	
Perforations	22.00			3317.00	
Bullnose	3.00			3320.00	26.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

4-19S-12W Barton,KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

Job Ticket: 65505

DST#: 4

ATTN: Bob O'Dell

Test Start: 2019.01.13 @ 12:24:14

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 12400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M	0.142

Total Length: 10.00 ft

Total Volume: 0.142 bbl

Num Fluid Samples: 0

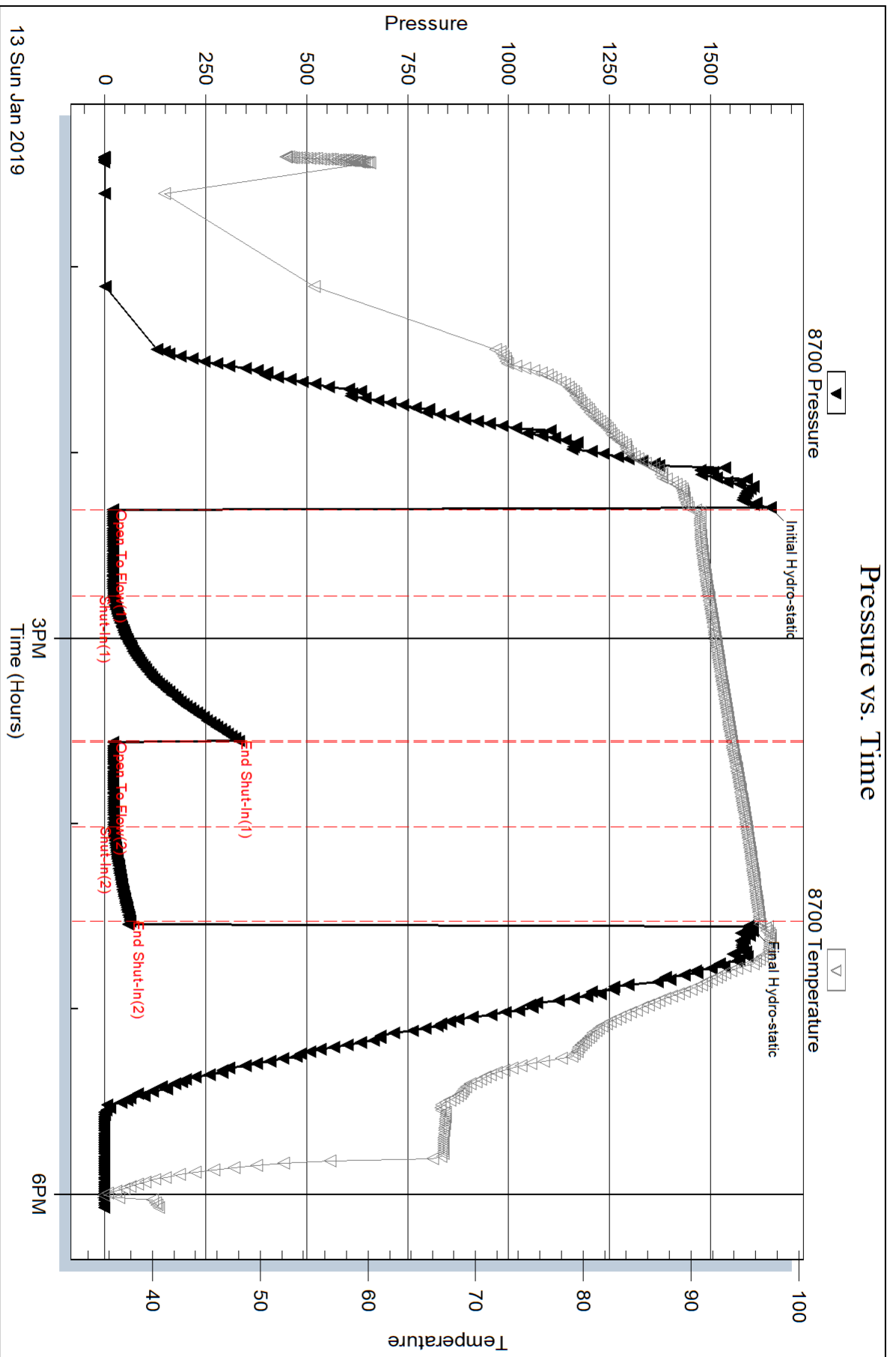
Num Gas Bombs: 0

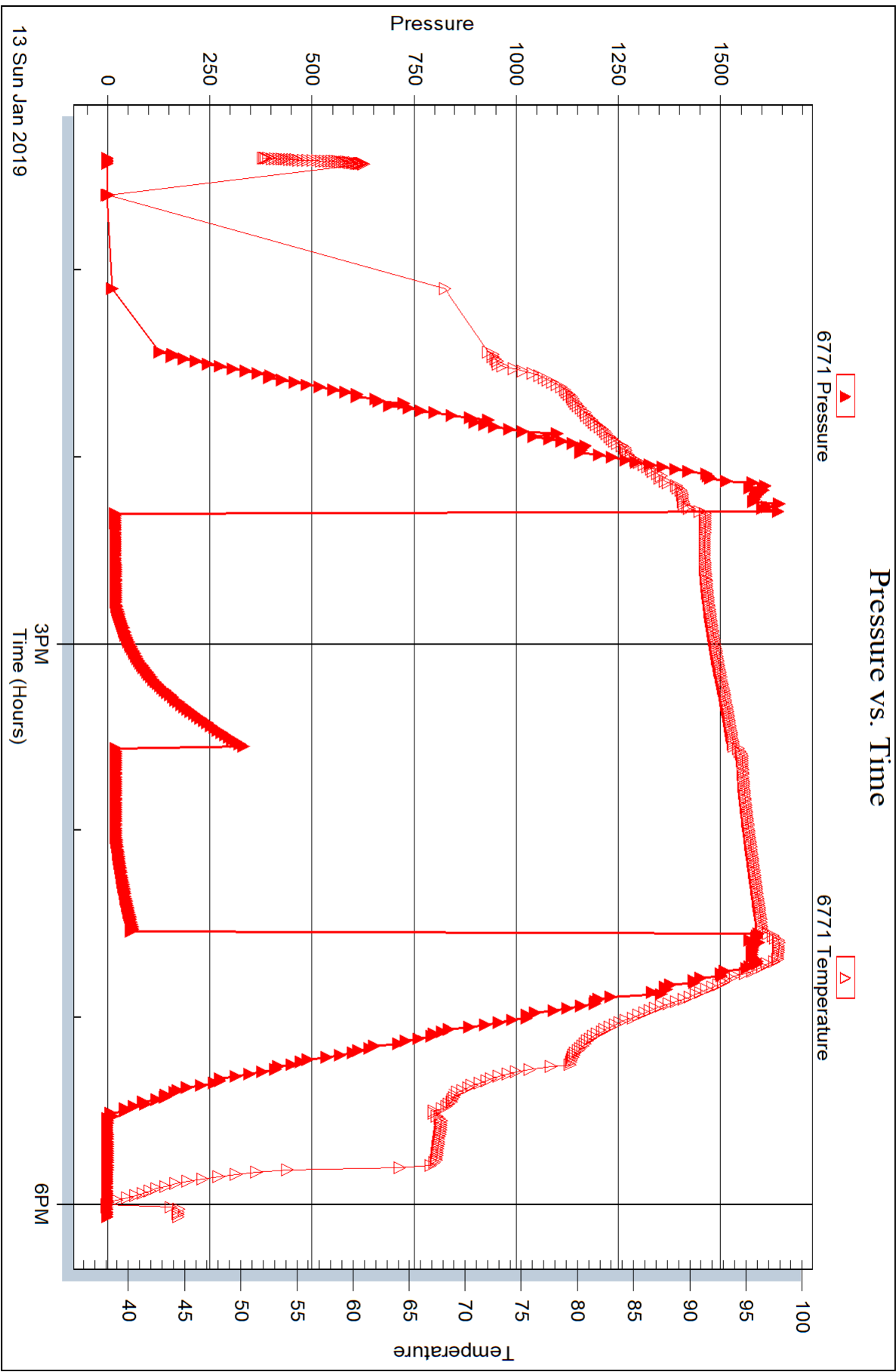
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Bob O'Dell

Cheyenne "A" #1-4

4-19S-12W Barton,KS

Start Date: 2019.01.14 @ 04:43:57

End Date: 2019.01.14 @ 09:53:33

Job Ticket #: 65506 DST #: 5

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.01.15 @ 16:17:52



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC
 PO Box 8037
 Wichita, KS 67208
 ATTN: Bob O'Dell

4-19S-12W Barton,KS

Cheyenne "A" #1-4

Job Ticket: 65506 **DST#: 5**
 Test Start: 2019.01.14 @ 04:43:57

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:31:18
 Time Test Ended: 09:53:33
 Interval: **3353.00 ft (KB) To 3387.00 ft (KB) (TVD)**
 Total Depth: 3387.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 1816.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 5.00 ft

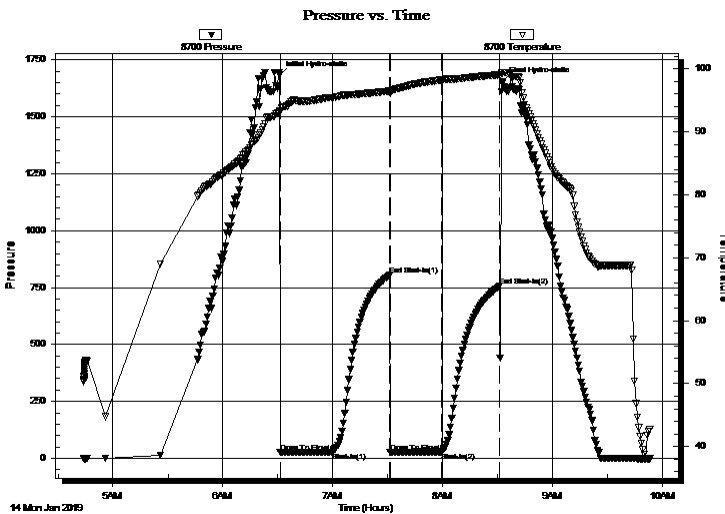
Serial #: 8700

Outside

Press@RunDepth: 28.69 psig @ 3354.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.01.14 End Date: 2019.01.14 Last Calib.: 2019.01.14
 Start Time: 04:43:58 End Time: 09:53:33 Time On Btm: 2019.01.14 @ 06:30:48
 Time Off Btm: 2019.01.14 @ 08:32:33

TEST COMMENT: 30- IF- Slow ly built to 1.15"
 30- IS- No blow
 30- FF- Slow ly built to 0.98"
 30- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.05	93.24	Initial Hydro-static
1	25.75	93.23	Open To Flow (1)
29	26.66	95.45	Shut-In(1)
61	803.85	96.45	End Shut-In(1)
61	26.84	96.05	Open To Flow (2)
89	28.69	98.23	Shut-In(2)
121	755.60	99.03	End Shut-In(2)
122	1653.29	99.30	Final Hydro-static

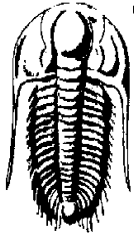
Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSM	0.28
2.00	CO	0.03

* 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: Bob O'Dell

4-19S-12W Barton,KS

Cheyenne "A" #1-4

Job Ticket: 65506

DST#: 5

Test Start: 2019.01.14 @ 04:43:57

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:31:18

Time Test Ended: 09:53:33

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3353.00 ft (KB) To 3387.00 ft (KB) (TVD)

Reference Elevations: 1816.00 ft (KB)

Total Depth: 3387.00 ft (KB) (TVD)

1811.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 6771 Inside

Press@RunDepth: psig @ 3354.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.01.14

End Date: 2019.01.14

Last Calib.: 2019.01.14

Start Time: 04:43:51

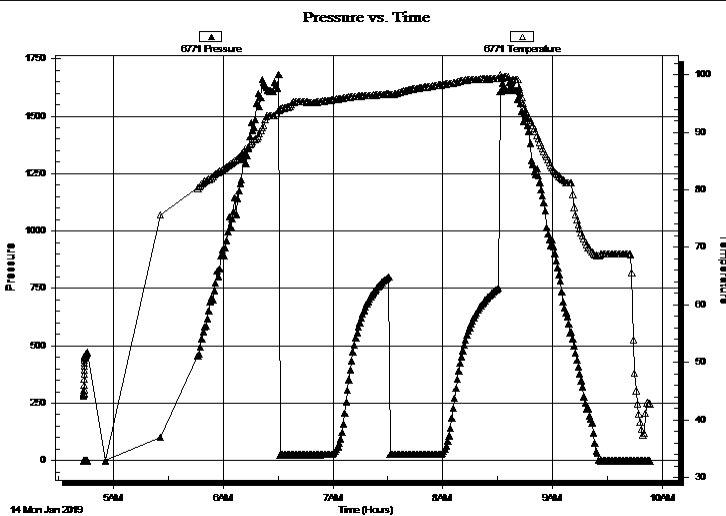
End Time: 09:53:11

Time On Btm:

Time Off Btm:

TEST COMMENT:
30- IF- Slow ly built to 1.15"
30- IS- No blow
30- FF- Slow ly built to 0.98"
30- FS- No blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSM	0.28
2.00	CO	0.03

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

4-19S-12W Barton,KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

Job Ticket: 65506

DST#: 5

ATTN: Bob O'Dell

Test Start: 2019.01.14 @ 04:43:57

Tool Information

Drill Pipe:	Length: 3341.00 ft	Diameter: 3.82 inches	Volume: 47.36 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 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 5.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3353.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	62.00 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			3326.00	
Shut In Tool	5.00			3331.00	
Hydraulic tool	5.00			3336.00	
Jars	5.00			3341.00	
Safety Joint	3.00			3344.00	
Packer	5.00			3349.00	28.00 Bottom Of Top Packer
Packer	4.00			3353.00	
Stubb	1.00			3354.00	
Recorder	0.00	6771	Inside	3354.00	
Recorder	0.00	8700	Outside	3354.00	
Perforations	30.00			3384.00	
Bullnose	3.00			3387.00	34.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

4-19S-12W Barton,KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

Job Ticket: 65506

DST#: 5

ATTN: Bob O'Dell

Test Start: 2019.01.14 @ 04:43:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 12400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OSM	0.284
2.00	CO	0.028

Total Length: 22.00 ft Total Volume: 0.312 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

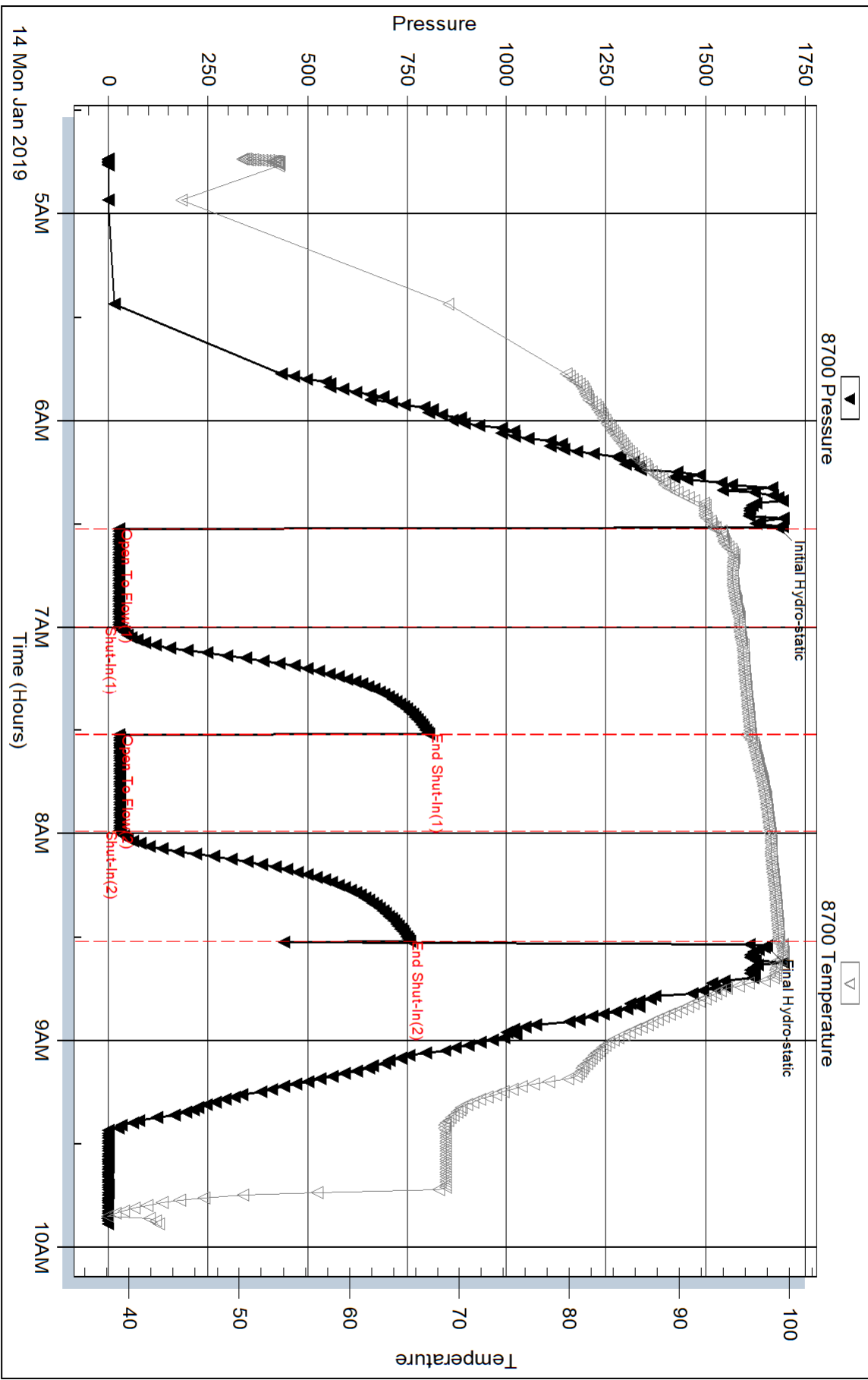
Serial #:

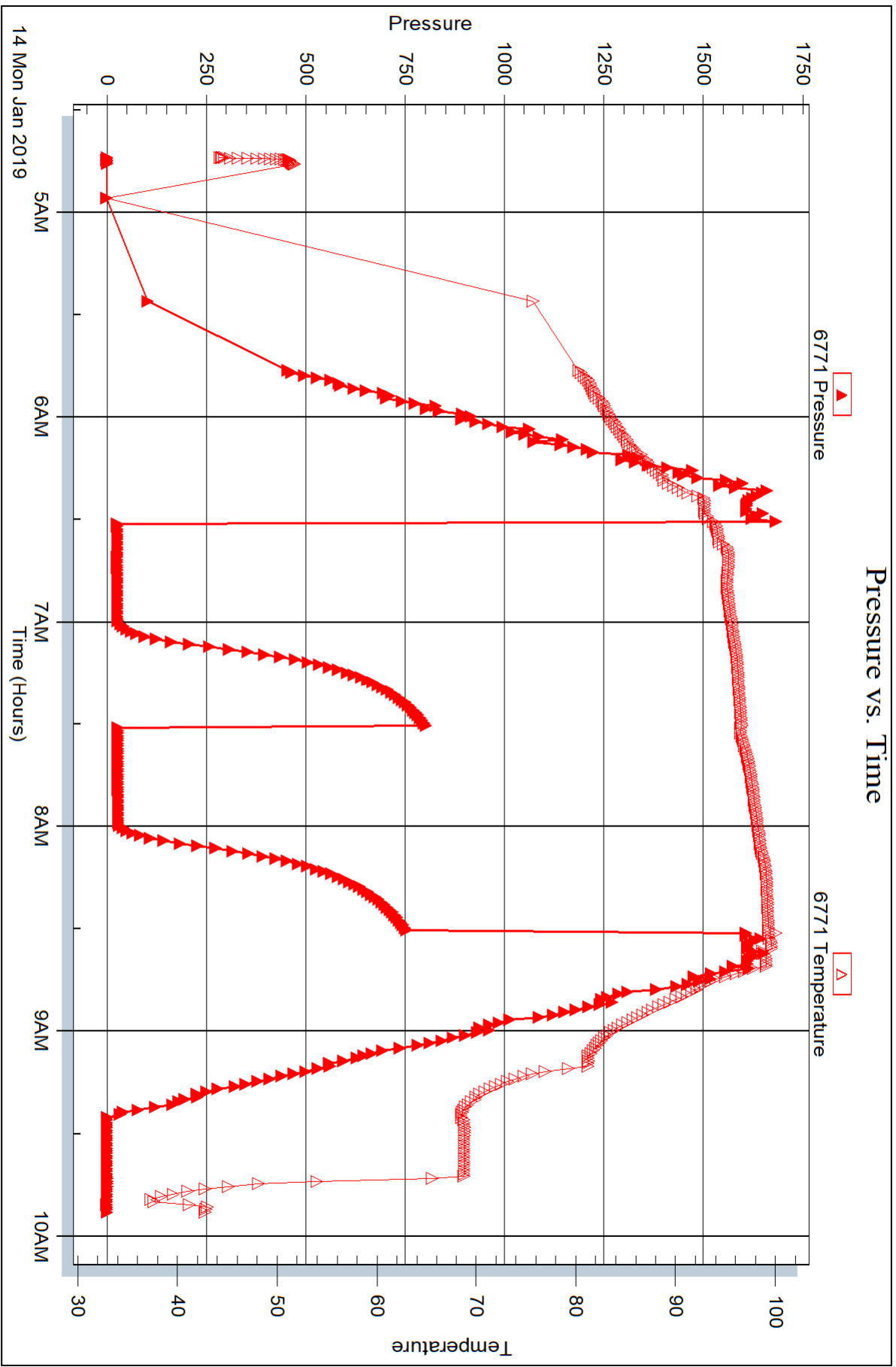
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Bob O'Dell

Cheyenne "A" #1-4

4-19S-12W Barton,KS

Start Date: 2019.01.14 @ 18:26:56

End Date: 2019.01.15 @ 02:12:17

Job Ticket #: 65507 DST #: 6

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.01.15 @ 16:17:28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

4-19S-12W Barton,KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

ATTN: Bob O'Dell

Job Ticket: 65507

DST#: 6

Test Start: 2019.01.14 @ 18:26:56

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:54:47

Time Test Ended: 02:12:17

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3385.00 ft (KB) To 3394.00 ft (KB) (TVD)

Reference Elevations: 1816.00 ft (KB)

Total Depth: 3394.00 ft (KB) (TVD)

1811.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

Press@RunDepth: 70.42 psig @ 3386.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.01.14

End Date:

2019.01.15

Last Calib.:

2019.01.15

Start Time: 18:26:57

End Time:

02:12:17

Time On Btm:

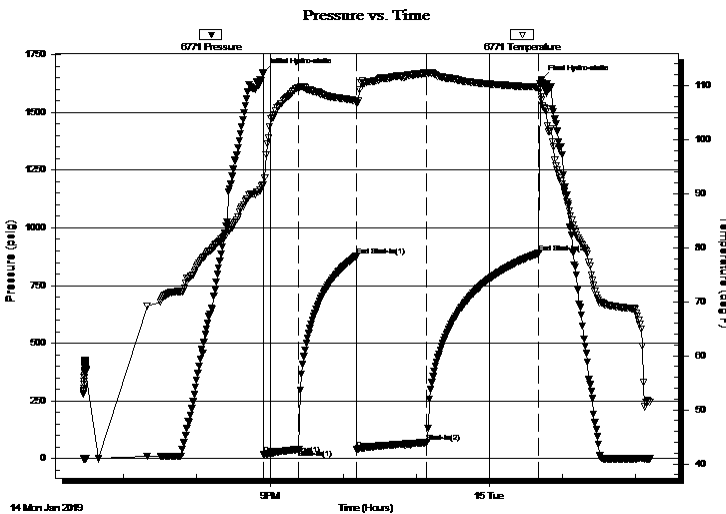
2019.01.14 @ 20:54:32

Time Off Btm:

2019.01.15 @ 00:43:02

TEST COMMENT: 30- IF- Slow ly built to 7.86"
45- IS- Surface blow
60- FF- Slow ly built to 8.05"
90- FSI- Slow ly built to 0.82"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1670.75	91.67	Initial Hydro-static
1	17.29	91.70	Open To Flow (1)
29	39.91	109.51	Shut-In(1)
77	876.62	107.19	End Shut-In(1)
77	40.92	106.88	Open To Flow (2)
135	70.42	112.21	Shut-In(2)
227	890.50	109.68	End Shut-In(2)
229	1640.42	107.26	Final Hydro-static

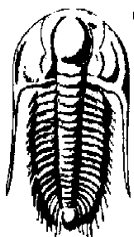
Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW, 10%M 90%W	1.70
2.00	CO	0.03

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

4-19S-12W Barton, KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

Job Ticket: 65507

DST#: 6

ATTN: Bob O'Dell

Test Start: 2019.01.14 @ 18:26:56

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:54:47

Time Test Ended: 02:12:17

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: **3385.00 ft (KB) To 3394.00 ft (KB) (TVD)**

Total Depth: 3394.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1816.00 ft (KB)

1811.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8700 **Outside**

Press@RunDepth: psig @ 3386.00 ft (KB)

Start Date: 2019.01.14

End Date:

2019.01.15

Capacity: 8000.00 psig

Last Calib.:

2019.01.15

Start Time: 18:27:08

End Time:

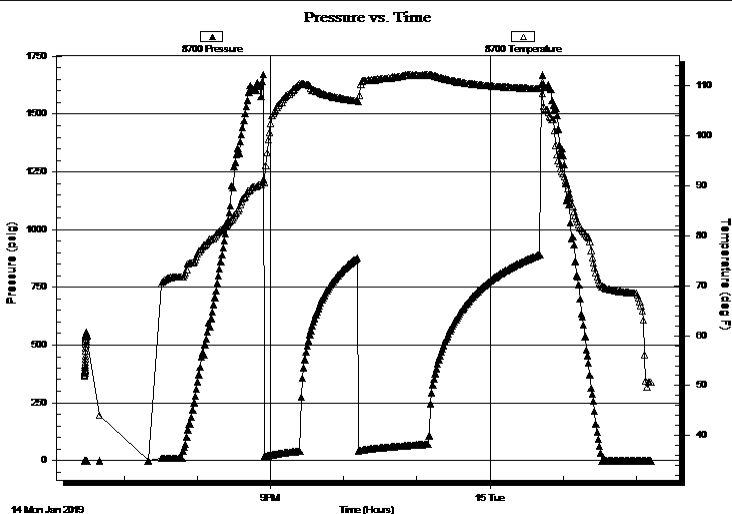
02:12:28

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- Slow ly built to 7.86"
45- IS- Surface blow
60- FF- Slow ly built to 8.05"
90- FS- Slow ly built to 0.82"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW, 10%M 90%W	1.70
2.00	CO	0.03

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

4-19S-12W Barton,KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

Job Ticket: 65507

DST#: 6

ATTN: Bob O'Dell

Test Start: 2019.01.14 @ 18:26:56

Tool Information

Drill Pipe:	Length: 3372.00 ft	Diameter: 3.82 inches	Volume: 47.80 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 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: 53000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3385.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	37.00 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			3358.00	
Shut In Tool	5.00			3363.00	
Hydraulic tool	5.00			3368.00	
Jars	5.00			3373.00	
Safety Joint	3.00			3376.00	
Packer	5.00			3381.00	28.00 Bottom Of Top Packer
Packer	4.00			3385.00	
Stubb	1.00			3386.00	
Recorder	0.00	6771	Inside	3386.00	
Recorder	0.00	8700	Outside	3386.00	
Perforations	5.00			3391.00	
Bullnose	3.00			3394.00	9.00 Bottom Packers & Anchor

Total Tool Length: 37.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

4-19S-12W Barton,KS

PO Box 8037
Wichita, KS 67208

Cheyenne "A" #1-4

Job Ticket: 65507

DST#: 6

ATTN: Bob O'Dell

Test Start: 2019.01.14 @ 18:26:56

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 13.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 14400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW, 10%M 90%W	1.701
2.00	CO	0.028

Total Length: 122.00 ft Total Volume: 1.729 bbl

Num Fluid Samples: 0

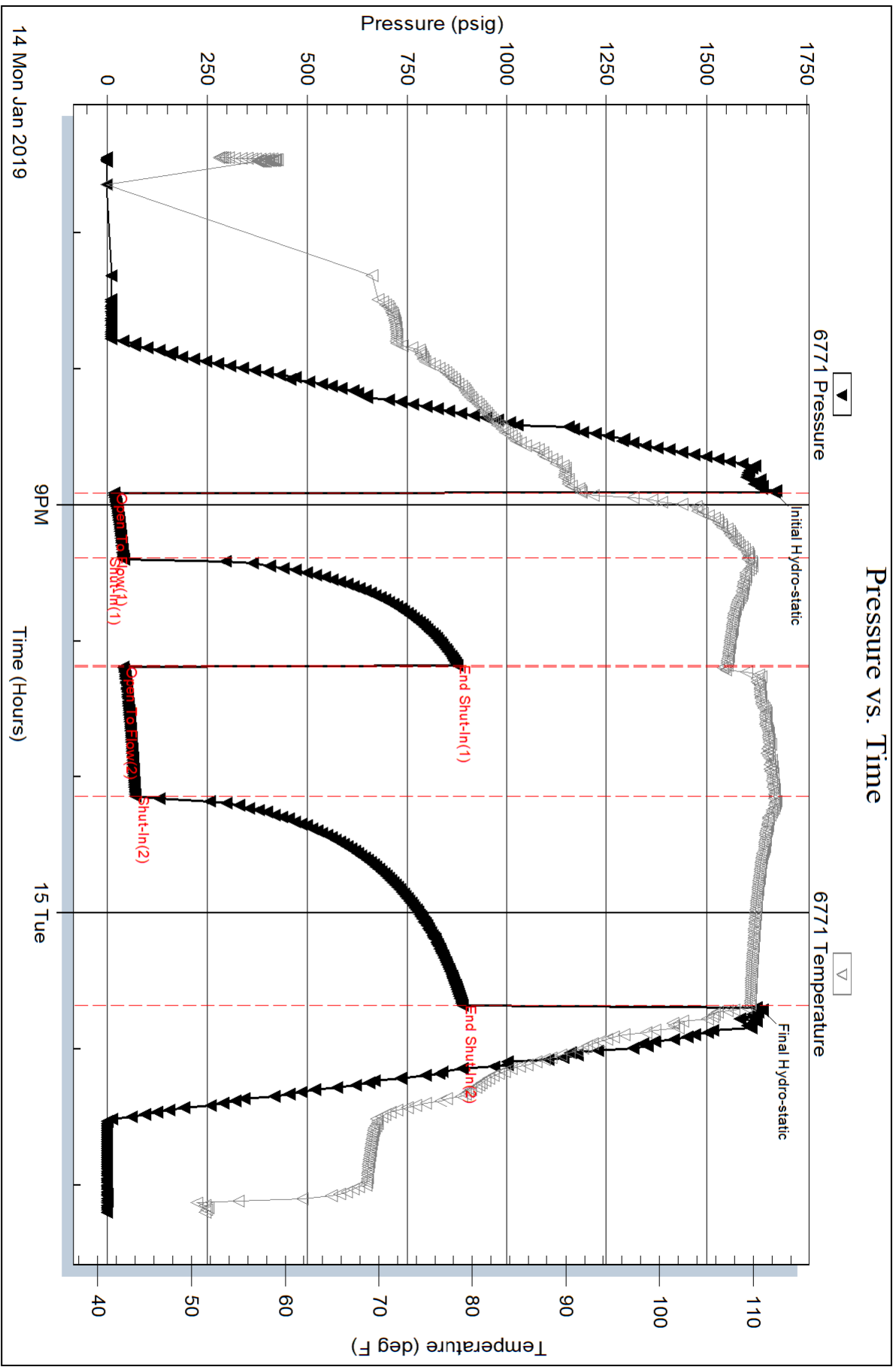
Num Gas Bombs: 0

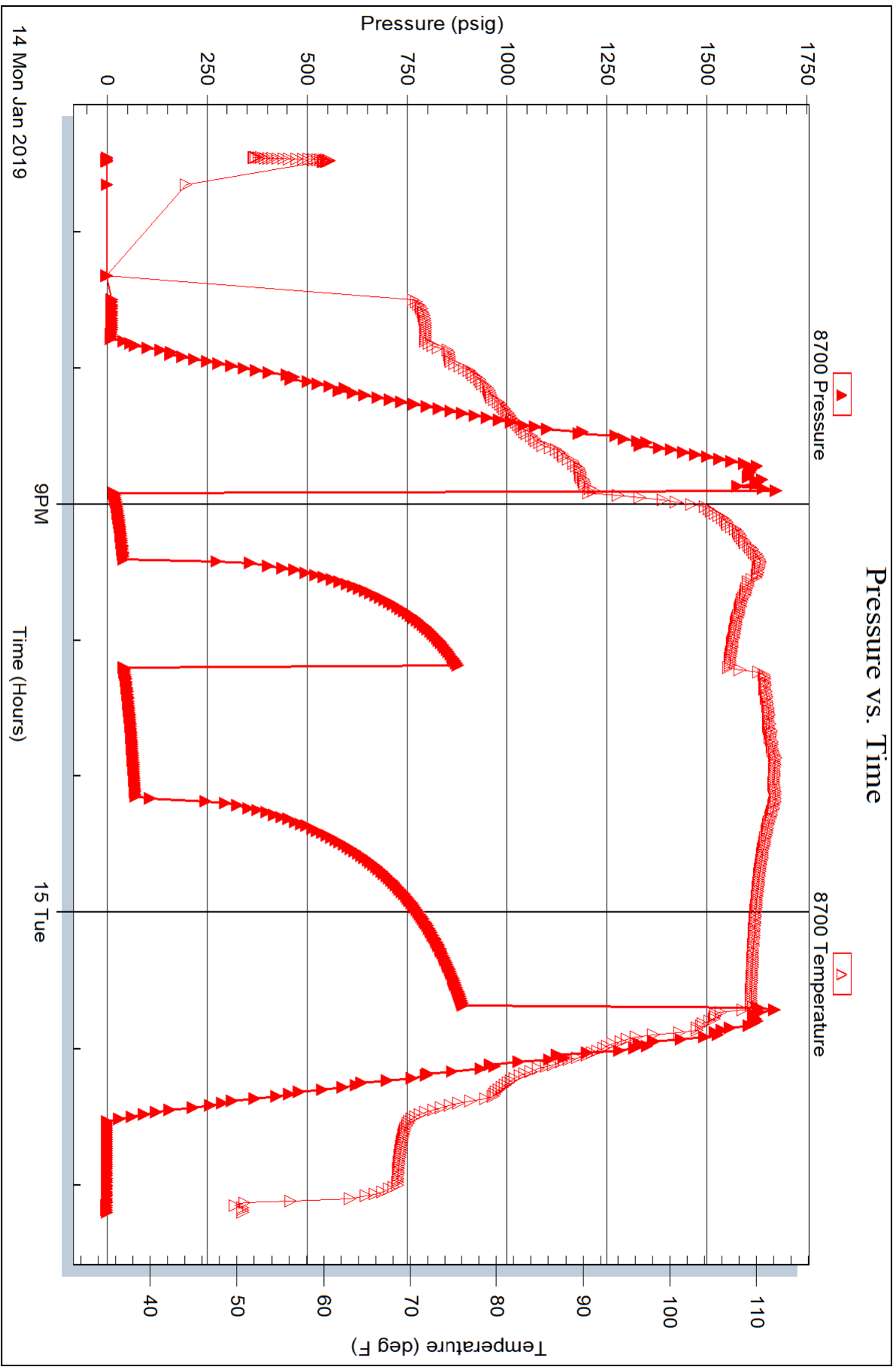
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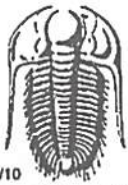
Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .31@48deg







TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65502**

Well Name & No. Cheyenne "A" #1-4 Test No. 1 Date 1/11/19
 Company Cohalt Energy LLC Elevation 1816 KB 1811 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Bob O'Dell Rig LD
 Location: Sec. 4 Twp 19 S Rge. 12 W Co. Barton State KS

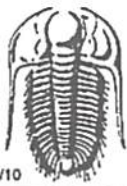
Interval Tested 3100-3150 Zone Tested Lansing "A+B"
 Anchor Length 50' Drill Pipe Run 3091 Mud Wt. 8.65
 Top Packer Depth 3095 Drill Collars Run --- Vis 47
 Bottom Packer Depth 3100 Wt. Pipe Run --- WL 7.2
 Total Depth 3150 Chlorides 6,500 ppm System LCM 1st
 Blow Description IF - Slowly built to 13.90" BOB 27 mins
ISF - Surface Blow
FF - Slowly built to 34.32" BOB 20 mins
FSF - Built to 1.76"

Rec	Feet of	%gas	%oil	%water	%mud
<u>135</u>	<u>WM</u>			<u>40</u>	<u>60</u>
<u>75</u>	<u>GOCM</u>	<u>10</u>	<u>10</u>		<u>80</u>
	<u>300' GTP</u>				

Rec Total 200' BHT 104° Gravity 32 API RW .10 @ 53° F Chlorides 8,500 ppm

(A) Initial Hydrostatic <u>1541</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0655</u>
(B) First Initial Flow <u>54</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0711</u>
(C) First Final Flow <u>77</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1020</u>
(D) Initial Shut-In <u>790</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1405</u>
(E) Second Initial Flow <u>80</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1552</u>
(F) Second Final Flow <u>114</u>	<input checked="" type="checkbox"/> Mileage <u>138 RT</u> 138	Comments
(G) Final Shut-In <u>788</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1528</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	
	<input type="checkbox"/> Extra Packer	
	<input type="checkbox"/> Extra Recorder	
	<input type="checkbox"/> Day Standby	
	<input type="checkbox"/> Accessibility	
Initial Open <u>30</u>	Sub Total <u>1513</u>	MP/DST Disc't
Initial Shut-In <u>45</u>		
Final Flow <u>60</u>		
Final Shut-In <u>90</u>		

Approved By _____ Our Representative Braman Lonsdale
 Tribolite 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. 65503

Well Name & No. Cheyenne "A" #1-4 Test No. 2 Date 1/12/19
 Company Cobalt Energy LLC Elevation 1816 KB 1811 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Bob O'Dell Rig LD
 Location: Sec. 4 Twp 19 S Rge. 12 W Co. Barton State KS

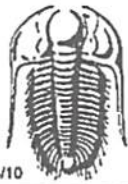
Interval Tested 3153-3190 Zone Tested Lansing "C-E"
 Anchor Length 37' Drill Pipe Run 3153 Mud Wt. 9.0
 Top Packer Depth 3148 Drill Collars Run — Vis 51
 Bottom Packer Depth 3153 Wt. Pipe Run — WL 8.8
 Total Depth 3190 Chlorides 8,000 ppm System LCM 1#
 Blow Description IF-BOB 1 min. Built to 179.41"
ISF-BOB 19 mins. Built to 31.06"
FF-BOB 1 min. Built to 299.43"
FSF-BOB 9 mins. Built to 253.46" GTS

Rec	Feet of	%gas	%oil	%water	%mud
250	SMW			5	95
500	GWMCO	20	45	25	10
95	M				
	GTS				

Rec Total 845' BHT 110' Gravity 34 API RW .08 @ 44° F Chlorides 150,000 ppm
 (A) Initial Hydrostatic 1554 Test 1050 T-On Location 1/11 2345
 (B) First Initial Flow 156 Jars 250 T-Started 0013
 (C) First Final Flow 239 Safety Joint 75 T-Open 0227
 (D) Initial Shut-In 671 Circ Sub _____ T-Pulled 0512
 (E) Second Initial Flow 230 Hourly Standby _____ T-Out 0747
 (F) Second Final Flow 385 Mileage 138 RT Comments _____
 (G) Final Shut-In 643 Sampler _____
 (H) Final Hydrostatic 1524 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1513 MP/DST Disc't _____

Approved By _____ Our Representative Brian Lamsdale

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.



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65504

Well Name & No. Cheyenne "A" #1-4 Test No. 3 Date 1/12/19
 Company Cobalt Energy LLC Elevation 1816 KB 1811 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Bob O'Dell Rig LD
 Location: Sec. 4 Twp 19 S Rge. 12 W Co. Barton State KS

Interval Tested 3239-3295 Zone Tested LKC "H+J"
 Anchor Length 56' Drill Pipe Run 3216 Mud Wt. 9.0
 Top Packer Depth 3234 Drill Collars Run — Vis 52
 Bottom Packer Depth 3239 Wt. Pipe Run — WL 12.8
 Total Depth 3295 Chlorides 13400 ppm System LCM Tc
 Blow Description IF - Slowly built to 2.22"
ISF - No blow
FF - No blow
FSI - No blow

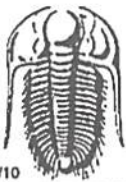
Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>M</u>				

Rec Total 15' BHT 99° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1605</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>2100</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2114</u>
(C) First Final Flow <u>18</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2350</u>
(D) Initial Shut-In <u>547</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>1/13</u> <u>0335</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>0454</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>138 RT</u>	Comments <u>—</u>
(G) Final Shut-In <u>510</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>1576</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> EM Tool <u>—</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby <u>—</u>	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility <u>—</u>	Total <u>1513</u>
	Sub Total <u>1513</u>	MP/DST Disc't <u>—</u>

Approved By _____ Our Representative Brannan Lonsdale

Tribolite 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. **65505**

Well Name & No. Cheyenne "A" #1-4 Test No. 4 Date 1/13/19
 Company Coba Energy LLC Elevation 1816 KB 1811 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Bob O'Dell Rig LD
 Location: Sec. 4 Twp 19 S Rge. 12 W Co. Barton State KS

Interval Tested 3294-3320 Zone Tested LKC "K"
 Anchor Length 26' Drill Pipe Run 3279 Mud Wt. 8.9
 Top Packer Depth 3289 Drill Collars Run — Vls 49
 Bottom Packer Depth 3294 Wt. Pipe Run — WL 12.0
 Total Depth 3320 Chlorides 13,400 ppm System LCM Tr
 Blow Description IF - slowly built to 0.88"
FSI - No blow
FF - Surface blow died 17 mins
FSI - No blow

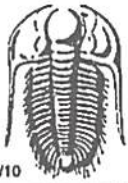
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>M</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 96° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1649</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1210</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1224</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1418</u>
(D) Initial Shut-In <u>331</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>1633</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>1804</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>138 RT</u>	Comments <u>—</u>
(G) Final Shut-In <u>63</u>	<input type="checkbox"/> Sampler <u>—</u>	<input type="checkbox"/> EM Tool <u>—</u>
(H) Final Hydrostatic <u>1604</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby <u>—</u>	Total <u>1513</u>
	<input type="checkbox"/> Accessibility <u>—</u>	MP/DST Disc't <u>—</u>
	Sub Total <u>1513</u>	

Approved By _____ Our Representative Brannan Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65506

Well Name & No. Cheyenne "A" #1-4 Test No. 5 Date 11/14/19
 Company Cobalt Energy LLC Elevation 1816 KB 1811 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Bob O'Dell Rig LP
 Location: Sec. 4 Twp 19 S Rge. 12 W Co. Barber State KS

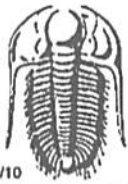
Interval Tested 3353-3387 Zone Tested Arbuckle
 Anchor Length 34' Drill Pipe Run 3341 Mud Wt. 8.9
 Top Packer Depth 3348 Drill Collars Run — Vis 49
 Bottom Packer Depth 3353 Wt. Pipe Run — WL 12.0
 Total Depth 3387 Chlorides 13,400 ppm System LCM Tr
 Blow Description IF - Slowly built to 1.15"
FSI - No blow
FF - Slowly built to 0.98"
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>OSMA</u>				
<u>2</u>	<u>CO</u>				

Rec Total 22' BHT 99° Gravity 34 API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 1683 Test 1050 T-On Location 0425
 (B) First Initial Flow 26 Jars 250 T-Started 0444
 (C) First Final Flow 27 Safety Joint 75 T-Open 0631
 (D) Initial Shut-In 804 Circ Sub — T-Pulled 0831
 (E) Second Initial Flow 27 Hourly Standby — T-Out 0954
 (F) Second Final Flow 29 Mileage 138 RT Comments —
 (G) Final Shut-In 756 Sampler —
 (H) Final Hydrostatic 1653 Straddle —
 Shale Packer — Ruined Shale Packer —
 Extra Packer — Ruined Packer —
 Extra Recorder — Extra Copies —
 Day Standby — Sub Total 0
 Accessibility — Total 1513
 Sub Total 1513 MP/DST Disc't —

Approved By _____ Our Representative Brannan Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65507

Well Name & No. Cheyenne "A" #1-4 Test No. 6 Date 1/14/19
 Company Cobalt Energy, LLC Elevation 1816 KB 1811 GL
 Address 115 S. Behmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Bob O'Dell Rig LD
 Location: Sec. 4 Twp 19 S Rge. 12 W Co. Barton State KS

Interval Tested 3385-3394 Zone Tested Arbuckle
 Anchor Length 9' Drill Pipe Run 3372 Mud Wt. 9.3
 Top Packer Depth 3380 Drill Collars Run --- Vis 47
 Bottom Packer Depth 3385 Wt. Pipe Run --- WL 13.6
 Total Depth 3394 Chlorides 17,400 ppm System LCM 1#

Blow Description IF - slowly built to 7.86"
ISI - Surface blow
FF - slowly built to 8.05"
FST - slowly built to 0.82"

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>MW</u>			<u>90</u>	<u>10</u>
<u>2</u>	<u>CO</u>				

Rec Total 122' BHT 110' Gravity 34 API RW 31 @ 48 °F Chlorides 3000 ppm

(A) Initial Hydrostatic <u>1671</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1810</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1827</u>
(C) First Final Flow <u>40</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2055</u>
(D) Initial Shut-In <u>877</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0040</u>
(E) Second Initial Flow <u>41</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0213</u>
(F) Second Final Flow <u>70</u>	<input checked="" type="checkbox"/> Mileage <u>138 RT</u>	Comments <u>5 nights in motel</u>
(G) Final Shut-In <u>891</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1640</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1513</u>
	Sub Total <u>1513</u>	MP/DST Disc't

Approved By _____ Our Representative Brannan Lonsdale

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.



NEW WELL

FIELD ORDER N° C 46712

BOX 438 • HAYSVILLE, KANSAS 67060
316-524-1225

DATE 1/8/19 20

IS AUTHORIZED BY: Cobalt (NAME OF CUSTOMER)

Address _____ City _____ State _____

To Treat Well As Follows: Lease Chryse A Well No. 1-4 Customer Order No. _____

Sec. Twp. Range _____ County Barton State Ks

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid Service is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED _____ By _____ Agent

Well Owner or Operator

Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2	8	milesc pump truck	4 ⁰⁰	32.00
2	8	milesc pickup	2 ⁰⁰	16.00
2	1	Pump Charge - Sur-fee		1,100.00
2	300	60/40 perc. 20% sol.	10. ⁷⁵	3,225.00
2	16	Calcium Chloride	30. ⁰⁰	480.00
2	316	Bulk Charge	1. ²⁵	395.00
2		Bulk Truck Miles 13.6 T x 8m = 108.8 Tm x 1. ¹⁰	min.	150.00
		Process License Fee on _____ Gallons	20%	5,398.00
		TOTAL BILLING		-1,079.00 4318.40

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative Netan G.

Station G.B

L.D. Dillins
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS



New Well

FIELD ORDER N^o C 46716

BOX 438 • HAYSVILLE, KANSAS 67060
316-524-1225

DATE 1/15/19 20__

IS AUTHORIZED BY: Cobelt (NAME OF CUSTOMER)

Address _____ City _____ State _____

To Treat Well As Follows: Lease Cheyenne A Well No. 1-4 Customer Order No. _____

Sec. Twp. _____ Range _____ County Barton State ks

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid Service is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED _____ By _____ Agent

Well Owner or Operator

Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2	7	milease pump truck	4. ⁰⁰ / ₁	28.00
2	7	milease pickup	2. ⁰⁰ / ₁	14.00
2	1	Dump Chase - Plus Rotary		1,100.00
2	240	60/400 ppc. 2% sel.	10. ⁷⁵ / ₁	2,580.00
2	5	2% additional sel.	22. ⁰⁰ / ₁	110.00
2	60 [#]	Flo. Seel	3. ⁰⁰ / ₁	180.00
2	1	8 ⁵ / ₂ " Wood Plug		65.00
2	247	Bulk Charge	1. ²⁵ / ₁	308.75
2		Bulk Truck Miles 10.84 T x 7m = 75.88 Tm x 1. ⁶⁰ / ₁	mi.	150.00
		Process License Fee on _____ Gallons	15%	4,535.75
		TOTAL BILLING		-680.35

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative Nathan W.

Station G-D

LD Drilling
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS

3855.40

