



## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita, KS 67208

ATTN: Robert Hendrix

### **Befort Unit 'A' 1-23**

### **23-13S-19W Ellis,KS**

Start Date: 2018.11.18 @ 15:20:28

End Date: 2018.11.19 @ 00:20:58

Job Ticket #: 65002                      DST #: 1

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

Printed: 2018.11.27 @ 08:39:03



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

ATTN: Robert Hendrix

Job Ticket: 65002

**DST#: 1**

Test Start: 2018.11.18 @ 15:20:28

## GENERAL INFORMATION:

Formation: **Lower Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:18:28

Time Test Ended: 00:20:58

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: **3242.00 ft (KB) To 3274.00 ft (KB) (TVD)**

Reference Elevations: 2037.00 ft (KB)

Total Depth: 3274.00 ft (KB) (TVD)

2032.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6753 Outside**

Press@RunDepth: 289.24 psig @ 3243.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.18

End Date:

2018.11.19

Last Calib.:

2018.11.19

Start Time: 15:20:33

End Time:

00:20:58

Time On Btm:

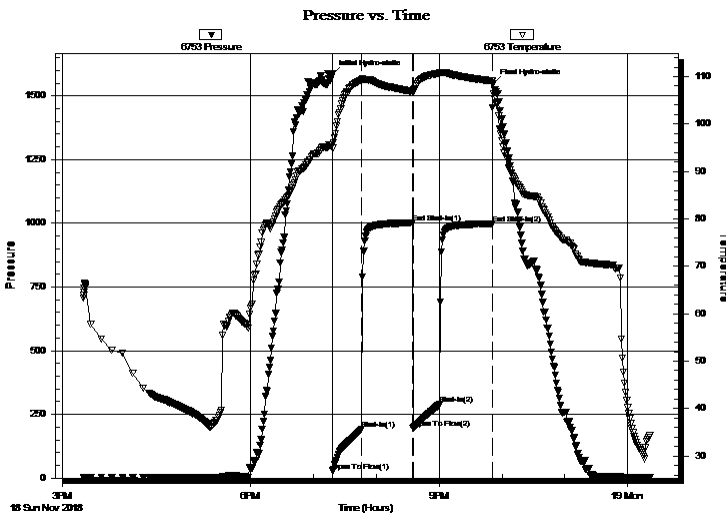
2018.11.18 @ 19:17:58

Time Off Btm:

2018.11.18 @ 21:51:58

**TEST COMMENT:** 30- IF- BOB 12 mins. Built to 33.10"  
45- IS- Very weak surface blow  
30- FF- BOB 12 mins. Built to 29.14"  
40- FS- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1584.91	95.61	Initial Hydro-static
1	28.43	94.93	Open To Flow (1)
28	191.57	109.33	Shut-In(1)
76	1001.79	106.89	End Shut-In(1)
77	195.51	107.03	Open To Flow (2)
103	289.24	110.71	Shut-In(2)
153	998.58	109.07	End Shut-In(2)
154	1547.95	106.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
560.00	SMW, 5%M 95%W	6.27

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy LLC

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

Job Ticket: 65002

**DST#: 1**

ATTN: Robert Hendrix

Test Start: 2018.11.18 @ 15:20:28

## Tool Information

Drill Pipe:	Length: 3040.00 ft	Diameter: 3.82 inches	Volume: 43.09 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - 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: 54000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3242.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	58.00 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			3217.00	
Shut In Tool	5.00			3222.00	
Hydraulic tool	5.00			3227.00	
Gap Sub	3.00			3230.00	
Safety Joint	3.00			3233.00	
Packer	5.00			3238.00	26.00 Bottom Of Top Packer
Packer	4.00			3242.00	
Stubb	1.00			3243.00	
Recorder	0.00	6771	Inside	3243.00	
Recorder	0.00	6753	Outside	3243.00	
Perforations	28.00			3271.00	
Bullnose	3.00			3274.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 58.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

Job Ticket: 65002

**DST#: 1**

ATTN: Robert Hendrix

Test Start: 2018.11.18 @ 15:20:28

## 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: 133000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
560.00	SMW, 5%M 95%W	6.272

Total Length: 560.00 ft      Total Volume: 6.272 bbl

Num Fluid Samples: 0

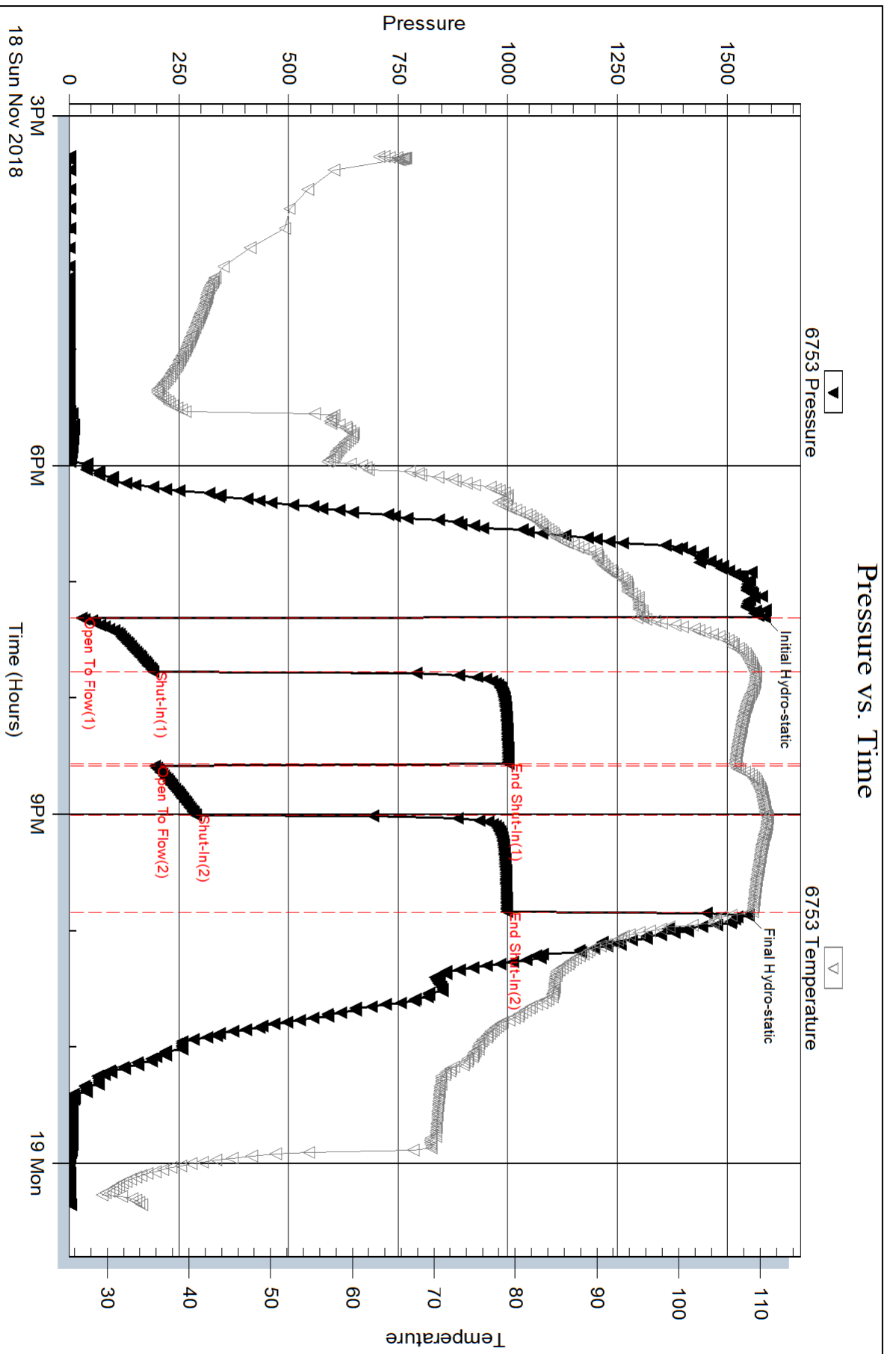
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .09@41deg



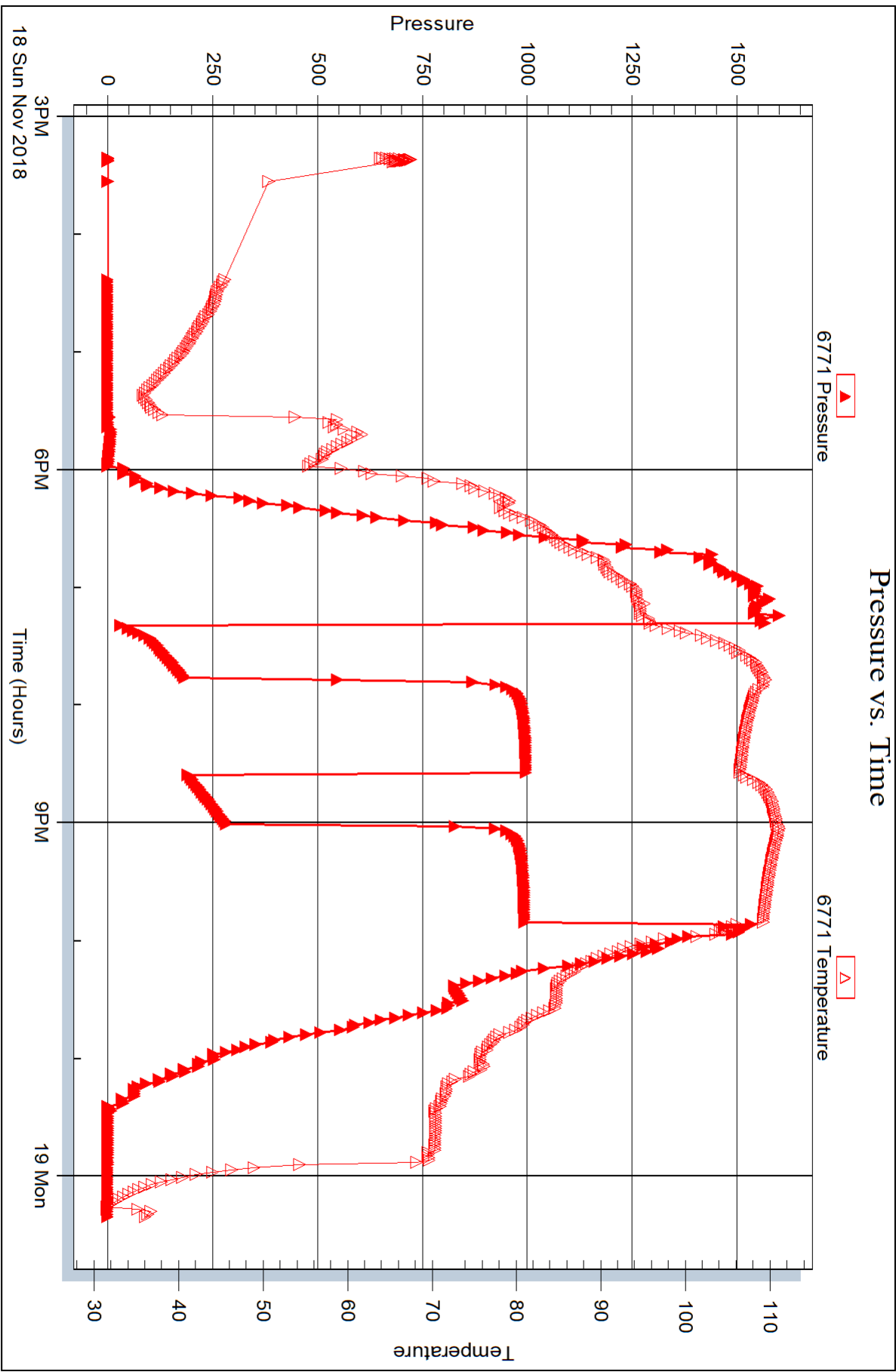
Serial #: 6771

Inside

Cobalt Energy LLC

Before Unit 'A' 1-23

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita, KS 67208

ATTN: Robert Hendrix

### **Befort Unit 'A' 1-23**

### **23-13S-19W Ellis,KS**

Start Date: 2018.11.19 @ 15:02:35

End Date: 2018.11.20 @ 00:57:05

Job Ticket #: 65003                      DST #: 2

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

Printed: 2018.11.27 @ 08:27:50





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

ATTN: Robert Hendrix

Job Ticket: 65003

**DST#: 2**

Test Start: 2018.11.19 @ 15:02:35

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:27:35

Time Test Ended: 00:57:05

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3360.00 ft (KB) To 3408.00 ft (KB) (TVD)**

Reference Elevations: 2037.00 ft (KB)

Total Depth: 3408.00 ft (KB) (TVD)

2032.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6753**

**Outside**

Press@RunDepth: 624.92 psig @ 3361.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.19 End Date: 2018.11.20

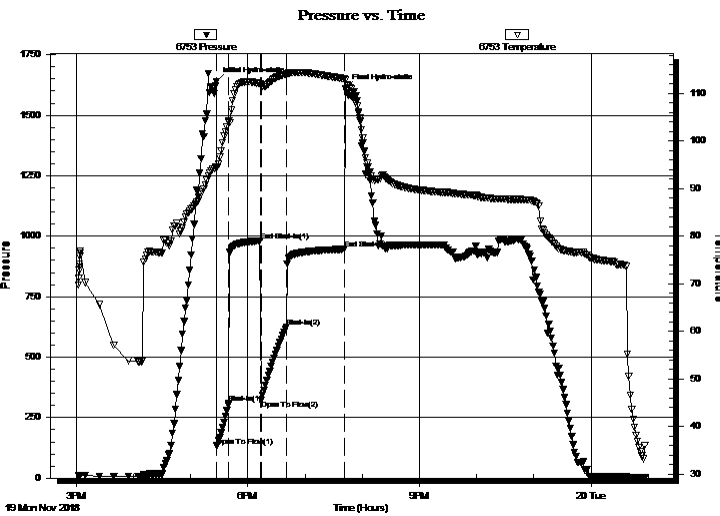
Last Calib.: 2018.11.20

Start Time: 15:02:40 End Time: 00:57:05

Time On Btm: 2018.11.19 @ 17:27:05

Time Off Btm: 2018.11.19 @ 19:42:35

**TEST COMMENT:** 15- IF- BOB 20 secs. Built to 246.75"  
30- IS- BOB 6 mins. Built to 54.89"  
30- FF- BOB 3 mins. Built to 292.72"  
60- FSI- BOB 12 mins. Built to 57.41"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.29	94.63	Initial Hydro-static
1	133.55	94.31	Open To Flow (1)
13	309.27	104.26	Shut-In(1)
46	980.63	111.99	End Shut-In(1)
47	323.49	111.65	Open To Flow (2)
74	624.92	114.02	Shut-In(2)
135	946.33	113.03	End Shut-In(2)
136	1608.82	112.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2056.00	CGO, 30%G 70%O	27.48
0.00	GTS(FSI)	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

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

Job Ticket: 65003

**DST#: 2**

ATTN: Robert Hendrix

Test Start: 2018.11.19 @ 15:02:35

## Tool Information

Drill Pipe:	Length: 3167.00 ft	Diameter: 3.82 inches	Volume: 44.89 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - 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: 56000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3360.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	74.00 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			3335.00	
Shut In Tool	5.00			3340.00	
Hydraulic tool	5.00			3345.00	
Gap Sub	3.00			3348.00	
Safety Joint	3.00			3351.00	
Packer	5.00			3356.00	26.00 Bottom Of Top Packer
Packer	4.00			3360.00	
Stubb	1.00			3361.00	
Recorder	0.00	6771	Inside	3361.00	
Recorder	0.00	6753	Outside	3361.00	
Perforations	5.00			3366.00	
Change Over Sub	1.00			3367.00	
Drill Pipe	32.00			3399.00	
Change Over Sub	1.00			3400.00	
Perforations	5.00			3405.00	
Bullnose	3.00			3408.00	48.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>74.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

Job Ticket: 65003

**DST#: 2**

ATTN: Robert Hendrix

Test Start: 2018.11.19 @ 15:02:35

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2056.00	CGO, 30%G 70%O	27.478
0.00	GTS(FSI)	0.000

Total Length: 2056.00 ft      Total Volume: 27.478 bbl

Num Fluid Samples: 0

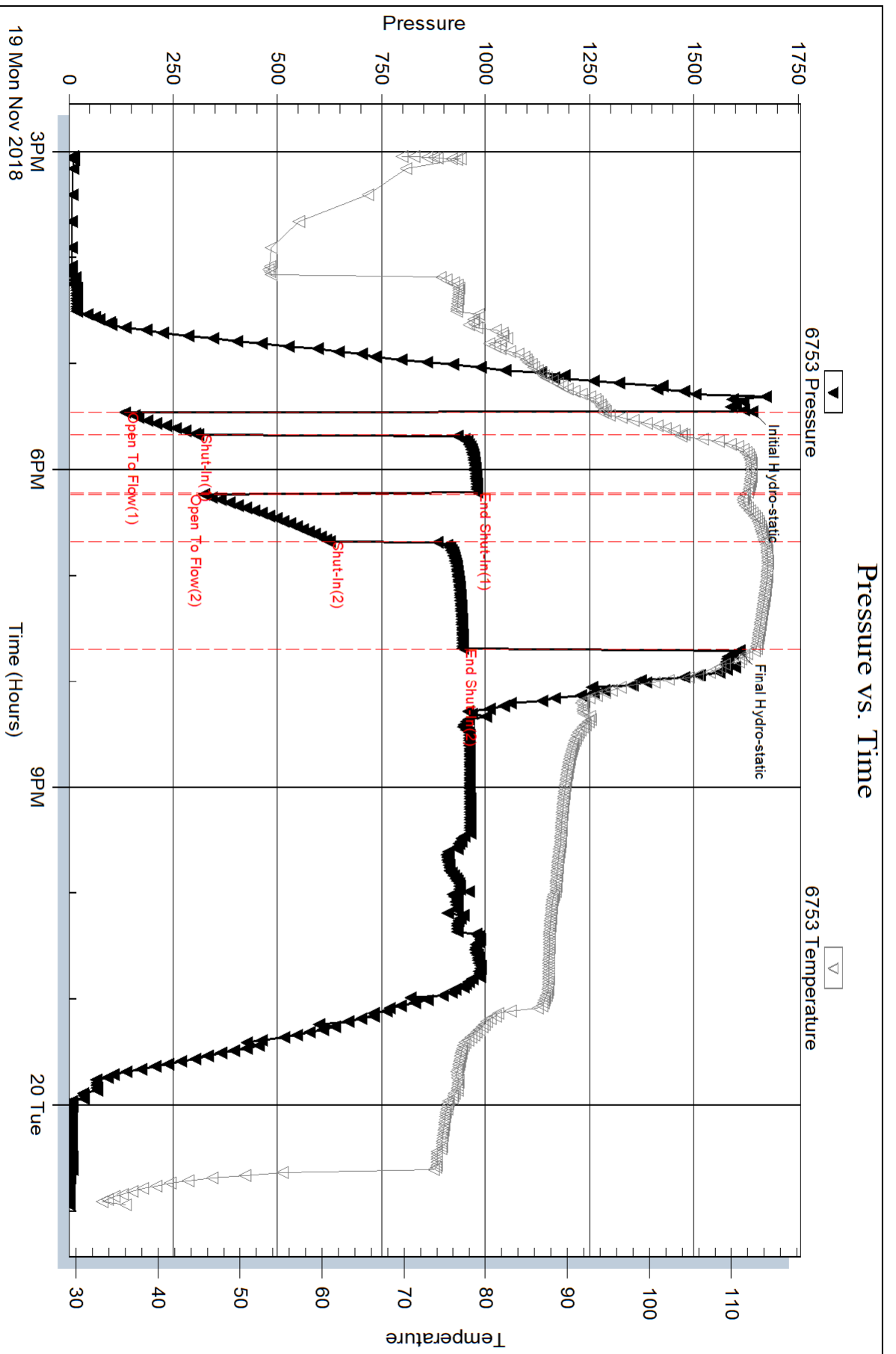
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



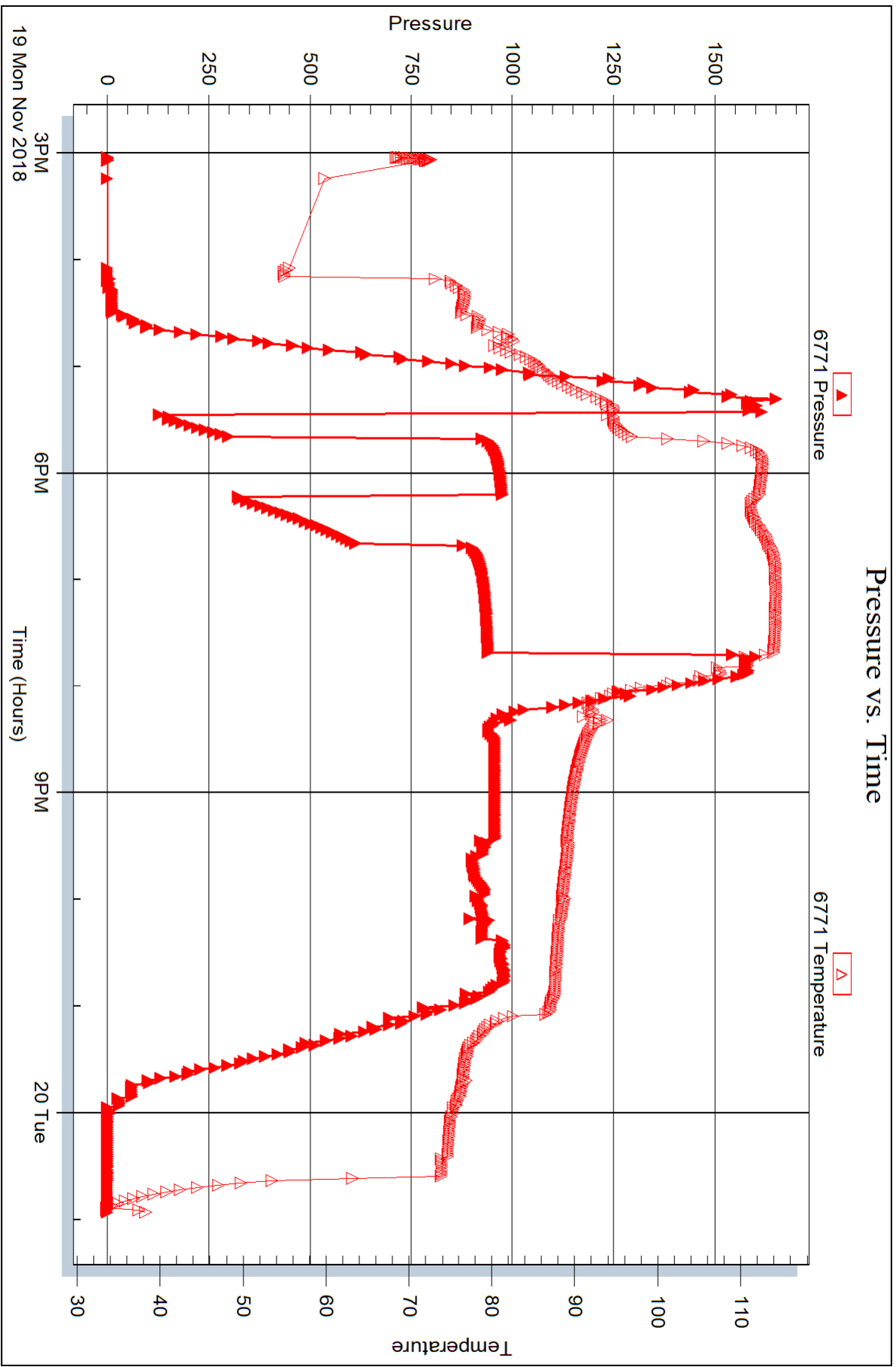
Serial #: 6771

Inside

Cobalt Energy LLC

Before Unit 'A' 1-23

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65003

Printed: 2018.11.27 @ 08:27:51



## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita, KS 67208

ATTN: Robert Hendrix

### **Befort Unit 'A' 1-23**

### **23-13S-19W Ellis,KS**

Start Date: 2018.11.20 @ 08:14:39

End Date: 2018.11.20 @ 17:06:09

Job Ticket #: 65004                      DST #: 3

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

Printed: 2018.11.27 @ 08:25:30



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

ATTN: Robert Hendrix

Job Ticket: 65004

**DST#: 3**

Test Start: 2018.11.20 @ 08:14:39

## GENERAL INFORMATION:

Formation: **LKC "E - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:05:39

Time Test Ended: 17:06:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3406.00 ft (KB) To 3433.00 ft (KB) (TVD)**

Reference Elevations: 2037.00 ft (KB)

Total Depth: 3433.00 ft (KB) (TVD)

2032.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6753 Outside**

Press@RunDepth: 110.43 psig @ 3407.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.20 End Date: 2018.11.20

Last Calib.: 2018.11.20

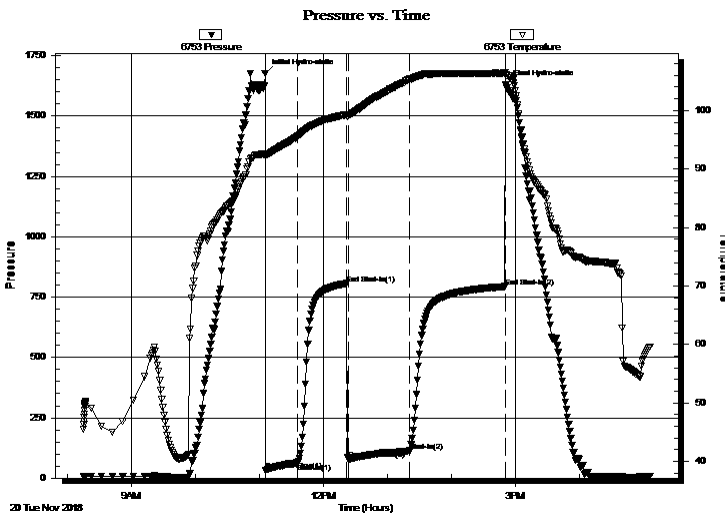
Start Time: 08:14:44 End Time: 17:06:09

Time On Btm: 2018.11.20 @ 11:05:09

Time Off Btm: 2018.11.20 @ 14:51:09

**TEST COMMENT:** 30- IF- Slow ly built to 11.15"  
45- IS- Slow ly built to 3.02"  
60- FF- Slow ly built to 10.88"  
90- FSI- Very weak surface blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1676.68	92.62	Initial Hydro-static
1	32.46	92.28	Open To Flow (1)
31	63.41	95.60	Shut-In(1)
76	806.21	99.27	End Shut-In(1)
78	79.23	99.18	Open To Flow (2)
135	110.43	105.32	Shut-In(2)
226	793.90	106.37	End Shut-In(2)
226	1631.63	106.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	VWOCM, 40%W 15%O 45%M	0.30
140.00	OCM, 25%O 75%M	0.87
0.00	105' 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

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

Job Ticket: 65004

**DST#: 3**

ATTN: Robert Hendrix

Test Start: 2018.11.20 @ 08:14:39

## Tool Information

Drill Pipe:	Length: 3231.00 ft	Diameter: 3.82 inches	Volume: 45.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - 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: 57000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3406.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	53.00 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			3381.00	
Shut In Tool	5.00			3386.00	
Hydraulic tool	5.00			3391.00	
Gap Sub	3.00			3394.00	
Safety Joint	3.00			3397.00	
Packer	5.00			3402.00	26.00 Bottom Of Top Packer
Packer	4.00			3406.00	
Stubb	1.00			3407.00	
Recorder	0.00	6771	Inside	3407.00	
Recorder	0.00	6753	Outside	3407.00	
Perforations	23.00			3430.00	
Bullnose	3.00			3433.00	27.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Cobalt Energy LLC

23-13S-19W Ellis,KS

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

Job Ticket: 65004

**DST#: 3**

ATTN: Robert Hendrix

Test Start: 2018.11.20 @ 08:14:39

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

77500 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	VWOCM, 40%W 15%O 45%M	0.295
140.00	OCM, 25%O 75%M	0.874
0.00	105' GIP	0.000

Total Length: 200.00 ft      Total Volume: 1.169 bbl

Num Fluid Samples: 0

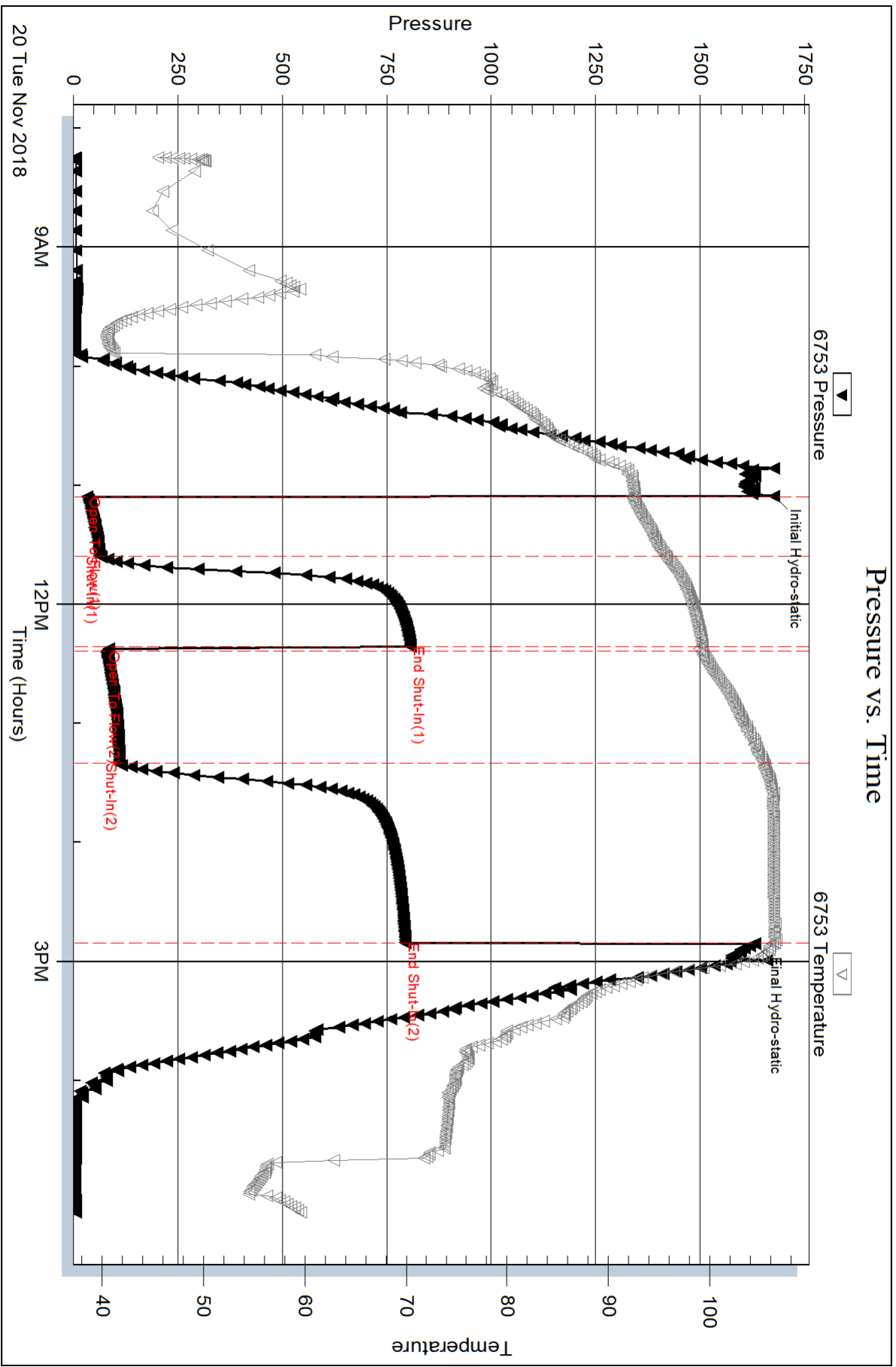
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .10@59deg



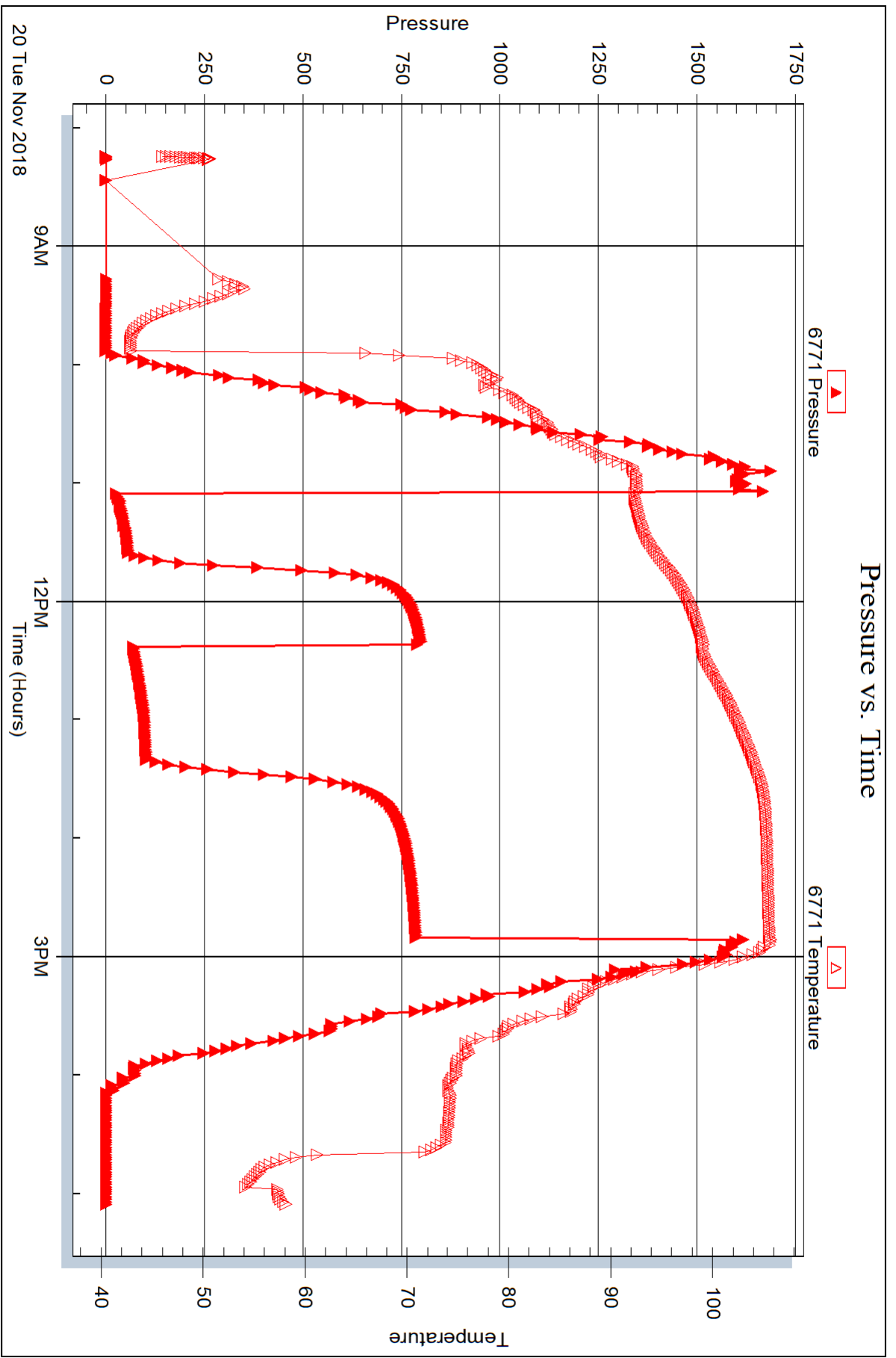
Serial #: 6771

Inside

Cobalt Energy LLC

Before Unit 'A' 1-23

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita, KS 67208

ATTN: Robert Hendrix

### **Befort Unit 'A' 1-23**

### **23-13S-19W Ellis,KS**

Start Date: 2018.11.20 @ 23:46:32

End Date: 2018.11.21 @ 06:43:32

Job Ticket #: 65005                      DST #: 4

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

Printed: 2018.11.27 @ 08:24:01

Cobalt Energy LLC  
23-13S-19W Ellis,KS  
Befort Unit 'A' 1-23  
DST # 4  
LKC "G"  
2018.11.20



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

ATTN: Robert Hendrix

Job Ticket: 65005

**DST#: 4**

Test Start: 2018.11.20 @ 23:46:32

## GENERAL INFORMATION:

Formation: **LKC "G"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:42:02  
 Time Test Ended: 06:43:32  
 Interval: **3434.00 ft (KB) To 3456.00 ft (KB) (TVD)**  
 Total Depth: 3456.00 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: 2037.00 ft (KB)  
 2032.00 ft (CF)  
 KB to GR/CF: 5.00 ft

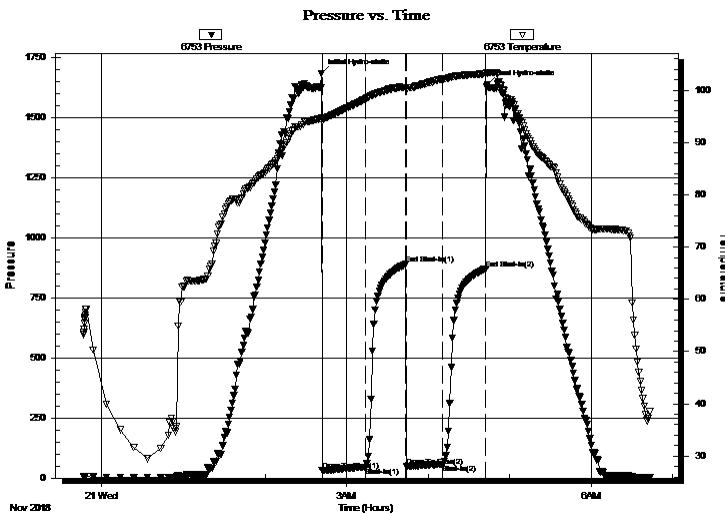
## Serial #: 6753

Outside

Press@RunDepth: 57.44 psig @ 3435.00 ft (KB)  
 Start Date: 2018.11.20 End Date: 2018.11.21  
 Start Time: 23:46:37 End Time: 06:43:31  
 Capacity: 8000.00 psig  
 Last Calib.: 2018.11.21  
 Time On Btm: 2018.11.21 @ 02:41:32  
 Time Off Btm: 2018.11.21 @ 04:43:32

TEST COMMENT: 30- IF- Slow ly built to 1.88"  
 30- IS- No blow  
 30- FF- Slow ly built to 1.68"  
 30- FS- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1684.62	94.63	Initial Hydro-static
1	31.19	93.99	Open To Flow (1)
33	46.13	98.35	Shut-In(1)
62	889.83	100.55	End Shut-In(1)
63	49.06	100.51	Open To Flow (2)
89	57.44	102.16	Shut-In(2)
121	871.77	103.13	End Shut-In(2)
122	1638.29	103.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	OSM	0.37

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**23-13S-19W Ellis, KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

ATTN: Robert Hendrix

Job Ticket: 65005

**DST#: 4**

Test Start: 2018.11.20 @ 23:46:32

## GENERAL INFORMATION:

Formation: **LKC "G"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:42:02  
 Time Test Ended: 06:43:32  
 Interval: **3434.00 ft (KB) To 3456.00 ft (KB) (TVD)**  
 Total Depth: 3456.00 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: 2037.00 ft (KB)  
 2032.00 ft (CF)  
 KB to GR/CF: 5.00 ft

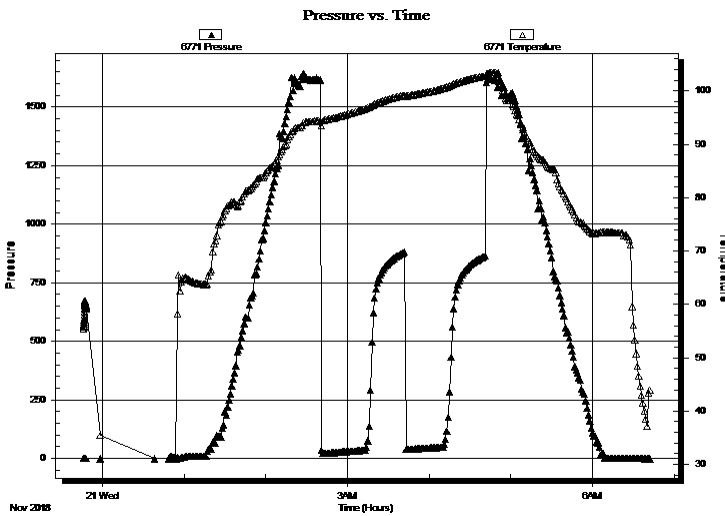
## Serial #: 6771

Inside

Press@RunDepth: psig @ 3435.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.11.20 End Date: 2018.11.21 Last Calib.: 2018.11.21  
 Start Time: 23:46:11 End Time: 06:42:46 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30- IF- Slow ly built to 1.88"  
 30- IS- No blow  
 30- FF- Slow ly built to 1.68"  
 30- FS- No blow

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	OSM	0.37

\* 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

**23-13S-19W Ellis, KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

Job Ticket: 65005

**DST#: 4**

ATTN: Robert Hendrix

Test Start: 2018.11.20 @ 23:46:32

## Tool Information

Drill Pipe:	Length: 3263.00 ft	Diameter: 3.82 inches	Volume: 46.25 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - 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: 69000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3434.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 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			3409.00	
Shut In Tool	5.00			3414.00	
Hydraulic tool	5.00			3419.00	
Gap Sub	3.00			3422.00	
Safety Joint	3.00			3425.00	
Packer	5.00			3430.00	26.00 Bottom Of Top Packer
Packer	4.00			3434.00	
Stubb	1.00			3435.00	
Recorder	0.00	6771	Inside	3435.00	
Recorder	0.00	6753	Outside	3435.00	
Perforations	18.00			3453.00	
Bullnose	3.00			3456.00	22.00 Bottom Packers & Anchor

**Total Tool Length: 48.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

Job Ticket: 65005

**DST#: 4**

ATTN: Robert Hendrix

Test Start: 2018.11.20 @ 23:46:32

## 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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	OSM	0.369

Total Length: 75.00 ft      Total Volume: 0.369 bbl

Num Fluid Samples: 0

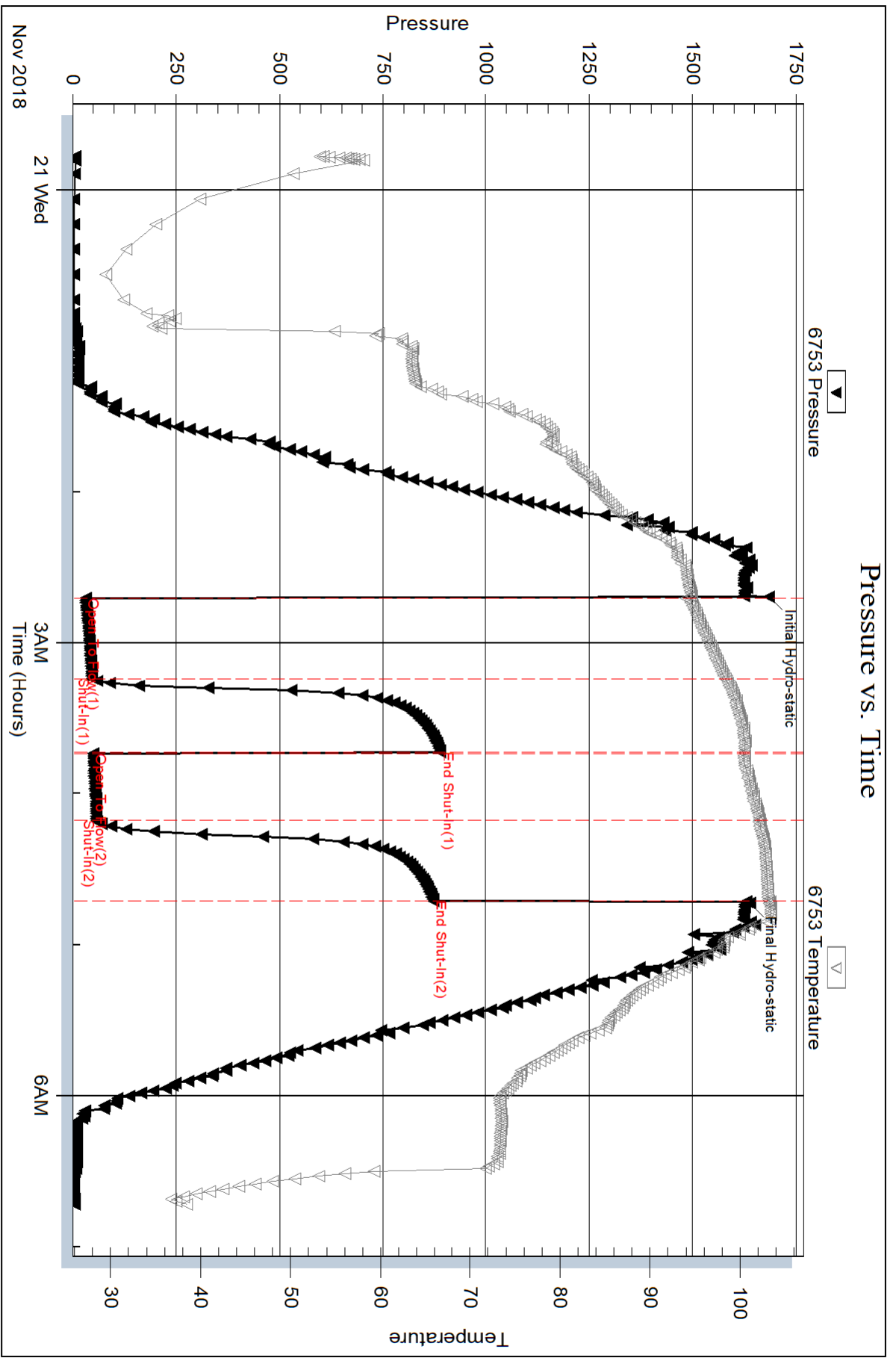
Num Gas Bombs: 0

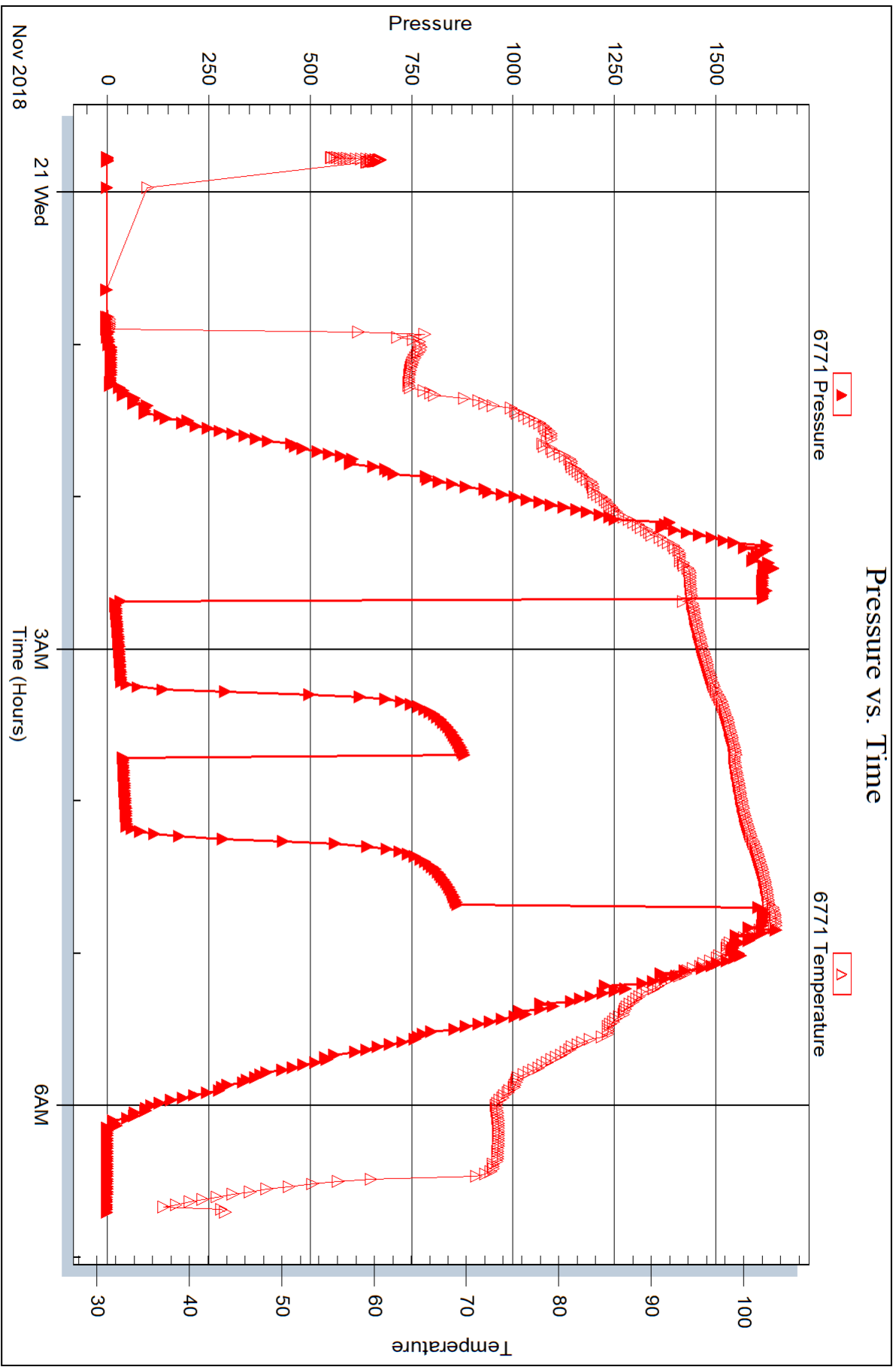
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita, KS 67208

ATTN: Robert Hendrix

### **Befort Unit 'A' 1-23**

### **23-13S-19W Ellis,KS**

Start Date: 2018.11.21 @ 18:05:47

End Date: 2018.11.22 @ 02:26:53

Job Ticket #: 65006                      DST #: 5

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

Printed: 2018.11.27 @ 08:23:36



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

ATTN: Robert Hendrix

Job Ticket: 65006

**DST#: 5**

Test Start: 2018.11.21 @ 18:05:47

## GENERAL INFORMATION:

Formation: **LKC "H - J"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:46:08  
 Time Test Ended: 02:26:53  
 Interval: **3468.00 ft (KB) To 3536.00 ft (KB) (TVD)**  
 Total Depth: 3536.00 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: 2037.00 ft (KB)  
 2032.00 ft (CF)  
 KB to GR/CF: 5.00 ft

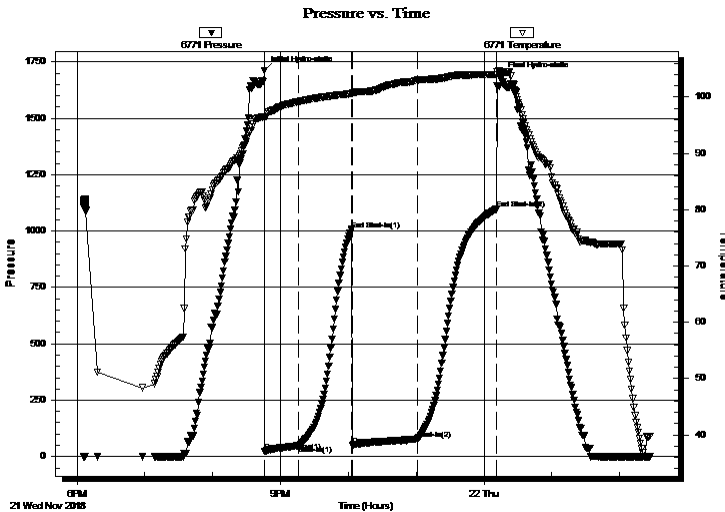
## Serial #: 6771

Inside

Press@RunDepth: 77.76 psig @ 3469.00 ft (KB)  
 Start Date: 2018.11.21 End Date: 2018.11.22  
 Start Time: 18:05:48 End Time: 02:26:53  
 Capacity: 8000.00 psig  
 Last Calib.: 2018.11.22  
 Time On Btm: 2018.11.21 @ 20:45:38  
 Time Off Btm: 2018.11.22 @ 00:15:08

TEST COMMENT: 30- IF- Slow ly built to 4.09"  
 45- IS- No blow  
 60- FF- Slow ly built to 15.72" (BOB 39 mins)  
 70- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1712.09	96.56	Initial Hydro-static
1	22.34	96.50	Open To Flow (1)
31	48.68	99.19	Shut-In(1)
78	1006.98	100.64	End Shut-In(1)
78	48.90	100.67	Open To Flow (2)
136	77.76	102.97	Shut-In(2)
206	1096.81	104.01	End Shut-In(2)
210	1685.75	104.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	HOCM, 45%O 55%M	0.74
0.00	30' 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

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

Job Ticket: 65006

**DST#: 5**

ATTN: Robert Hendrix

Test Start: 2018.11.21 @ 18:05:47

## Tool Information

Drill Pipe:	Length: 3295.00 ft	Diameter: 3.82 inches	Volume: 46.71 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - 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: 76000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3468.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	94.00 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			3443.00	
Shut In Tool	5.00			3448.00	
Hydraulic tool	5.00			3453.00	
Gap Sub	3.00			3456.00	
Safety Joint	3.00			3459.00	
Packer	5.00			3464.00	26.00 Bottom Of Top Packer
Packer	4.00			3468.00	
Stubb	1.00			3469.00	
Recorder	0.00	6771	Inside	3469.00	
Recorder	0.00	6753	Outside	3469.00	
Perforations	25.00			3494.00	
Change Over Sub	1.00			3495.00	
Drill Pipe	32.00			3527.00	
Change Over Sub	1.00			3528.00	
Perforations	5.00			3533.00	
Bullnose	3.00			3536.00	68.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>94.00</b>				





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

Job Ticket: 65006

**DST#: 5**

ATTN: Robert Hendrix

Test Start: 2018.11.21 @ 18:05:47

## 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:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	HOCM, 45%O 55%M	0.738
0.00	30' GIP	0.000

Total Length: 150.00 ft      Total Volume: 0.738 bbl

Num Fluid Samples: 0

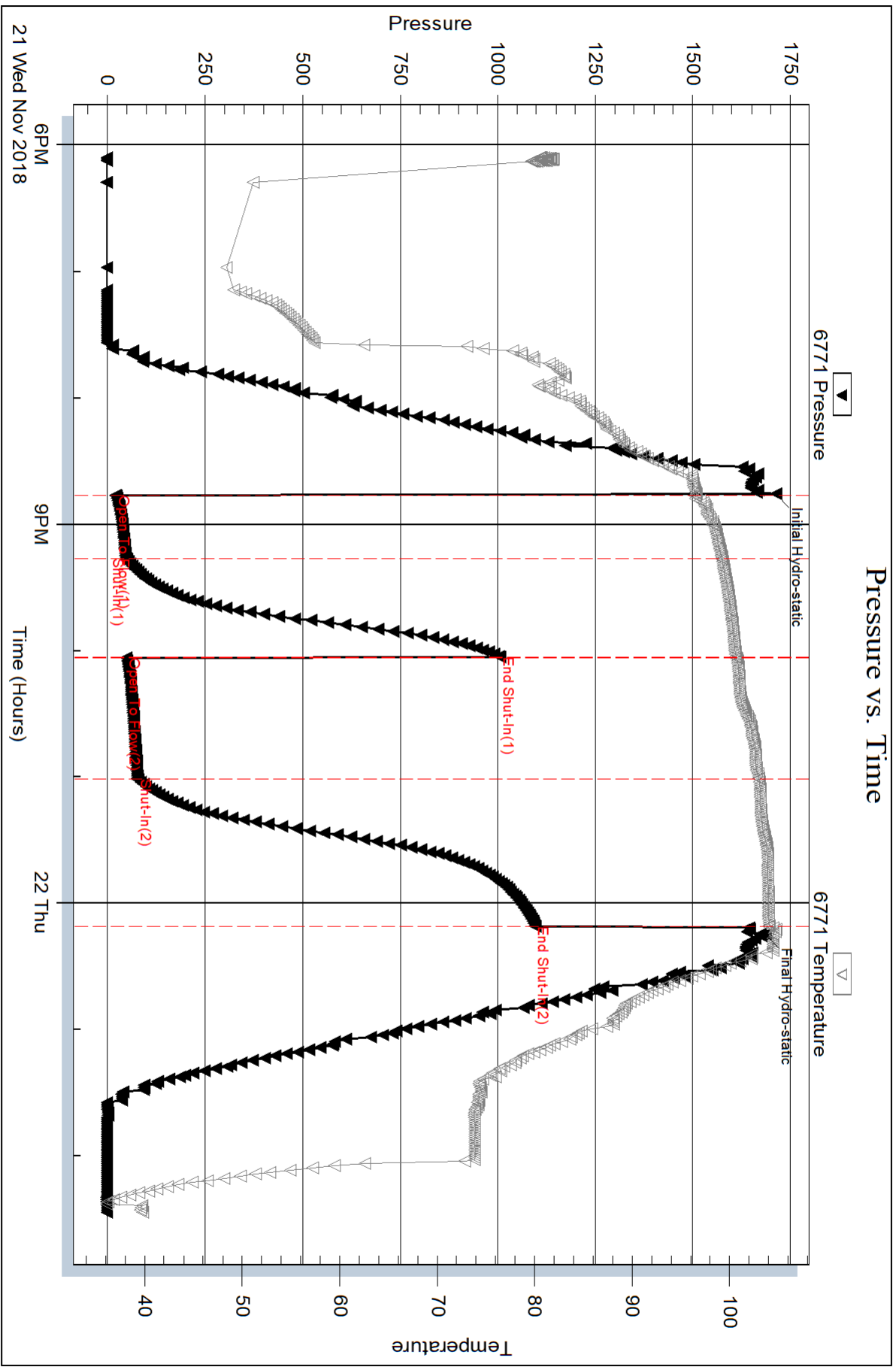
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

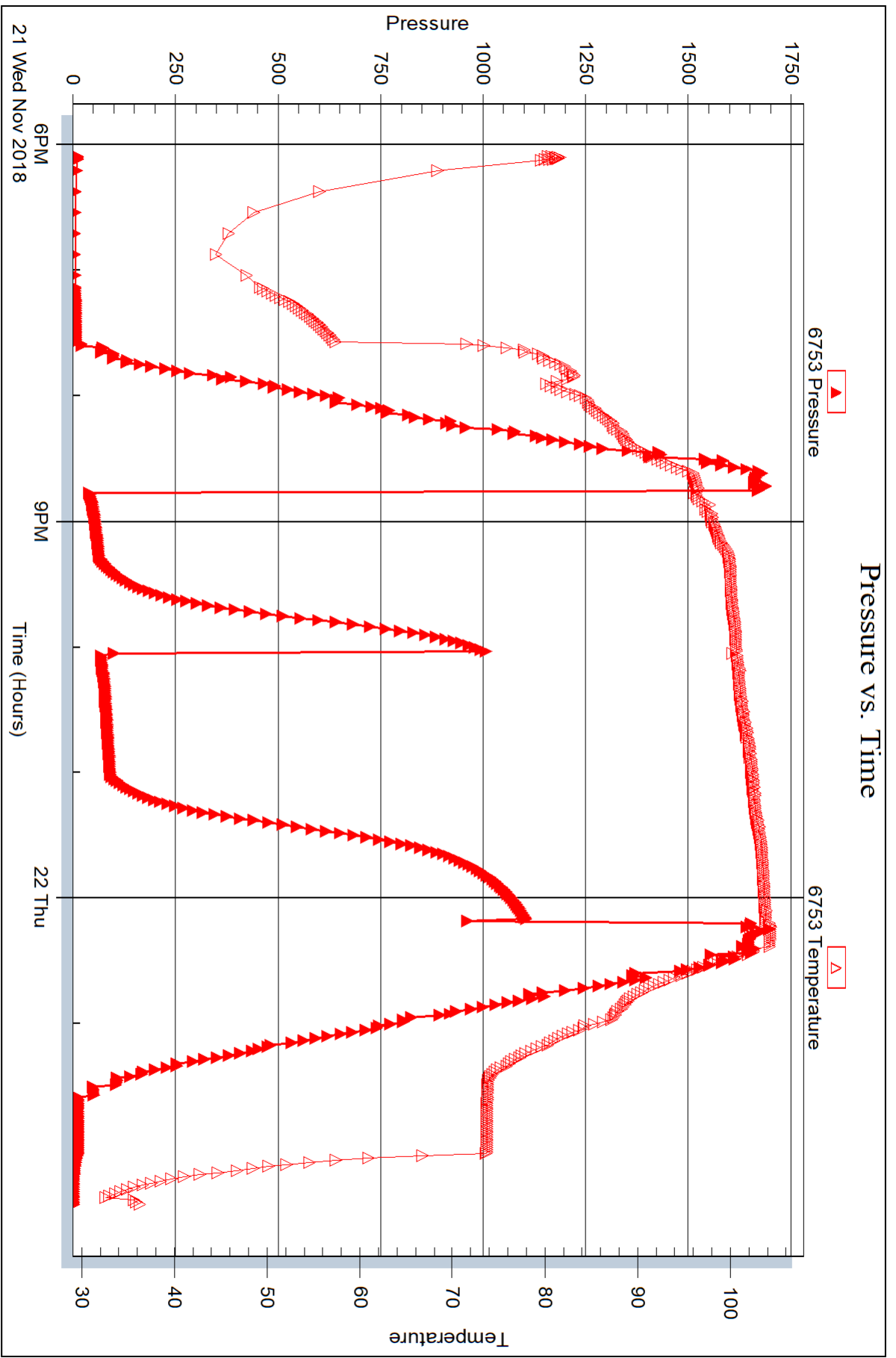


Serial #: 6753

Outside Cobalt Energy LLC

Before Unit 'A' 1-23

DST Test Number: 5





## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita, KS 67208

ATTN: Robert Hendrix

### **Befort Unit 'A' 1-23**

### **23-13S-19W Ellis,KS**

Start Date: 2018.11.22 @ 17:55:33

End Date: 2018.11.23 @ 01:51:39

Job Ticket #: 65007                      DST #: 6

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

Printed: 2018.11.27 @ 08:23:12



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

ATTN: Robert Hendrix

Job Ticket: 65007

**DST#: 6**

Test Start: 2018.11.22 @ 17:55:33

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:42:54

Time Test Ended: 01:51:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3942.00 ft (KB) To 3690.00 ft (KB) (TVD)**

Reference Elevations: 2037.00 ft (KB)

Total Depth: 3690.00 ft (KB) (TVD)

2032.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6771**

**Inside**

Press@RunDepth: 47.48 psig @ 3643.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.22

End Date:

2018.11.23

Last Calib.:

2018.11.23

Start Time: 17:55:34

End Time:

01:51:39

Time On Btm:

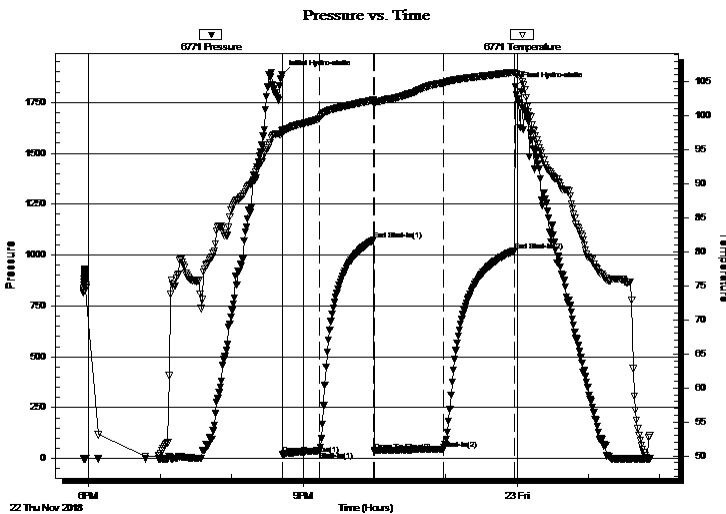
2018.11.22 @ 20:42:39

Time Off Btm:

2018.11.22 @ 23:58:24

**TEST COMMENT:** 30- IF- Slow ly built to 4.51"  
45- IS- No blow  
60- FF- Slow ly built to 0.91"  
60- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1887.16	97.93	Initial Hydro-static
1	21.76	97.54	Open To Flow (1)
31	37.85	99.58	Shut-In(1)
77	1074.63	102.34	End Shut-In(1)
78	34.56	101.67	Open To Flow (2)
135	47.48	104.84	Shut-In(2)
195	1021.55	106.39	End Shut-In(2)
196	1827.50	106.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	OSM	0.32

\* 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

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

Job Ticket: 65007

**DST#: 6**

ATTN: Robert Hendrix

Test Start: 2018.11.22 @ 17:55:33

## Tool Information

Drill Pipe:	Length: 3449.00 ft	Diameter: 3.82 inches	Volume: 48.89 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - 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: 53000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3642.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	74.00 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			3617.00	
Shut In Tool	5.00			3622.00	
Hydraulic tool	5.00			3627.00	
Gap Sub	3.00			3630.00	
Safety Joint	3.00			3633.00	
Packer	5.00			3638.00	26.00 Bottom Of Top Packer
Packer	4.00			3642.00	
Stubb	1.00			3643.00	
Recorder	0.00	6771	Inside	3643.00	
Recorder	0.00	6753	Outside	3643.00	
Perforations	5.00			3648.00	
Change Over Sub	1.00			3649.00	
Drill Pipe	32.00			3681.00	
Change Over Sub	1.00			3682.00	
Perforations	5.00			3687.00	
Bullnose	3.00			3690.00	48.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>74.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

Job Ticket: 65007

**DST#: 6**

ATTN: Robert Hendrix

Test Start: 2018.11.22 @ 17:55:33

## 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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	OSM	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

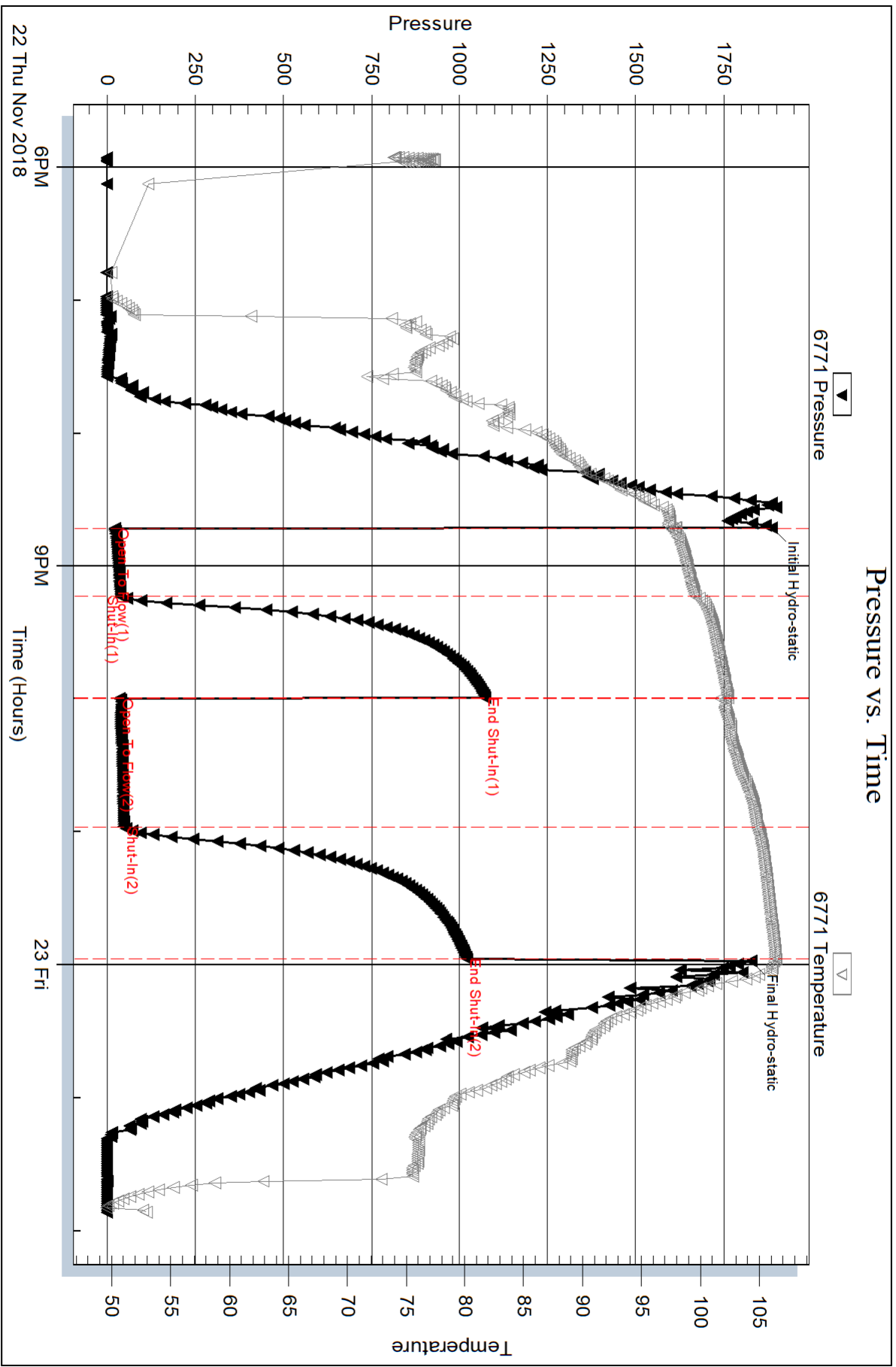
Serial #:

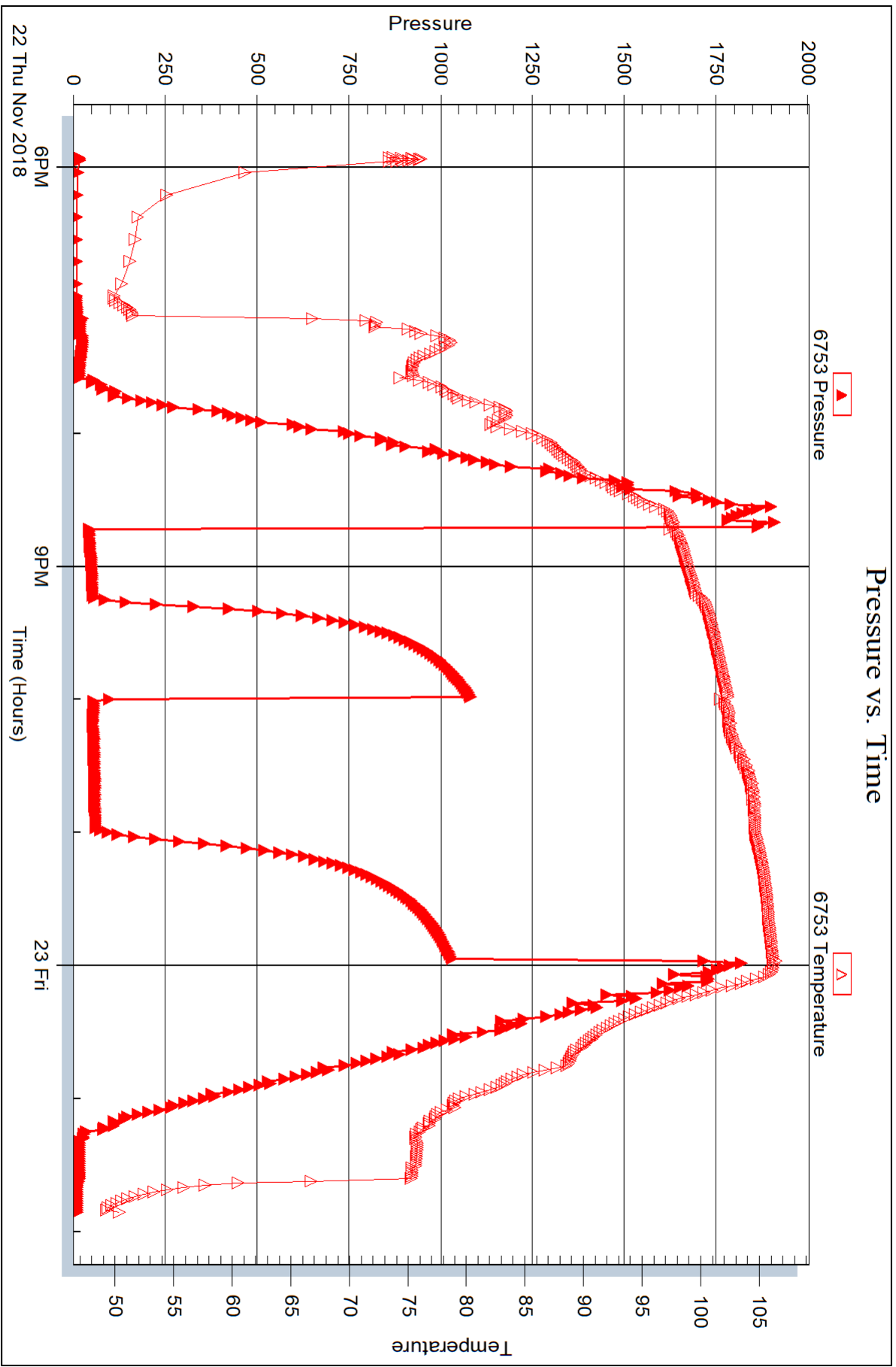
Laboratory Name:

Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037  
Wichita, KS 67208

ATTN: Robert Hendrix

### **Befort Unit 'A' 1-23**

### **23-13S-19W Ellis,KS**

Start Date: 2018.11.23 @ 12:37:37

End Date: 2018.11.23 @ 22:23:42

Job Ticket #: 65008                      DST #: 7

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

Printed: 2018.11.27 @ 08:22:48



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

ATTN: Robert Hendrix

Job Ticket: 65008

**DST#: 7**

Test Start: 2018.11.23 @ 12:37:37

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:32:28

Time Test Ended: 22:23:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3688.00 ft (KB) To 3700.00 ft (KB) (TVD)**

Reference Elevations: 2037.00 ft (KB)

Total Depth: 3700.00 ft (KB) (TVD)

2032.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6771**

**Inside**

Press@RunDepth: 381.42 psig @ 3689.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.23

End Date:

2018.11.23

Last Calib.:

2018.11.23

Start Time:

12:37:38

End Time:

22:23:42

Time On Btm:

2018.11.23 @ 17:32:13

Time Off Btm:

2018.11.23 @ 20:17:58

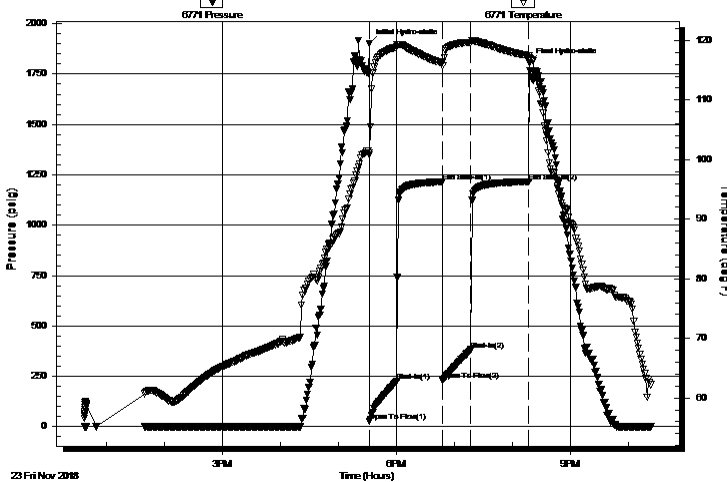
TEST COMMENT: 30- IF- BOB 4 mins. Built to 47.54"

45- IS- No blow

30- FF- BOB 10 mins. Built to 36.47"

60- FSI- No blow

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.51	101.13	Initial Hydro-static
1	25.73	100.77	Open To Flow (1)
29	227.36	118.91	Shut-In(1)
76	1215.43	116.27	End Shut-In(1)
77	231.67	115.76	Open To Flow (2)
105	381.42	119.70	Shut-In(2)
165	1216.29	117.43	End Shut-In(2)
166	1805.06	117.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
830.00	MW, 30%M 70%W	10.10

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy LLC

**23-13S-19W Ellis, KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

ATTN: Robert Hendrix

Job Ticket: 65008

**DST#: 7**

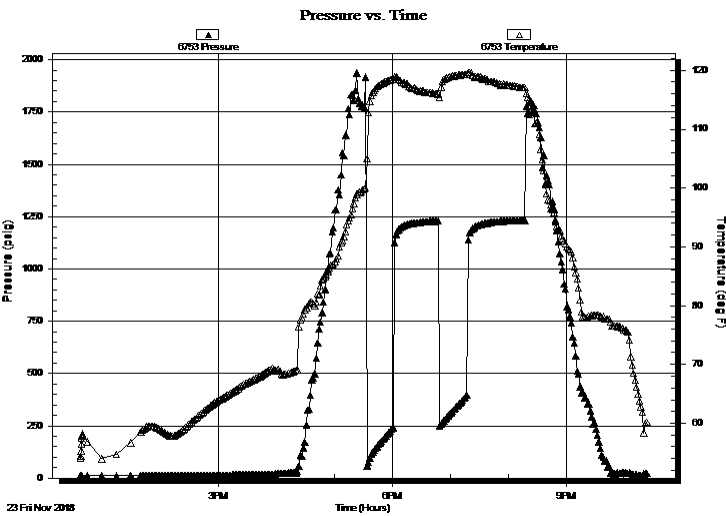
Test Start: 2018.11.23 @ 12:37:37

## GENERAL INFORMATION:

Formation: <b>Arbuckle</b>	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Brannan Lonsdale
Time Tool Opened: 17:32:28	Unit No: 73
Time Test Ended: 22:23:42	Reference Elevations: 2037.00 ft (KB)
<b>Interval: 3688.00 ft (KB) To 3700.00 ft (KB) (TVD)</b>	2032.00 ft (CF)
Total Depth: 3700.00 ft (KB) (TVD)	KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair

<b>Serial #: 6753</b>	<b>Outside</b>	Capacity: 8000.00 psig
Press@RunDepth: psig @ 3689.00 ft (KB)	Start Date: 2018.11.23	Last Calib.: 2018.11.23
Start Time: 12:37:40	End Date: 2018.11.23	Time On Btm:
End Time: 22:24:05	Time Off Btm:	

**TEST COMMENT:** 30- IF- BOB 4 mins. Built to 47.54"  
 45- IS- No blow  
 30- FF- BOB 10 mins. Built to 36.47"  
 60- FS- No blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
830.00	MW, 30%M 70%W	10.10

\* 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

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

Job Ticket: 65008

**DST#: 7**

ATTN: Robert Hendrix

Test Start: 2018.11.23 @ 12:37:37

## Tool Information

Drill Pipe:	Length: 3512.00 ft	Diameter: 3.82 inches	Volume: 49.78 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - 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: 56000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3688.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	38.00 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			3663.00	
Shut In Tool	5.00			3668.00	
Hydraulic tool	5.00			3673.00	
Gap Sub	3.00			3676.00	
Safety Joint	3.00			3679.00	
Packer	5.00			3684.00	26.00 Bottom Of Top Packer
Packer	4.00			3688.00	
Stubb	1.00			3689.00	
Recorder	0.00	6771	Inside	3689.00	
Recorder	0.00	6753	Outside	3689.00	
Perforations	8.00			3697.00	
Bullnose	3.00			3700.00	12.00 Bottom Packers & Anchor

**Total Tool Length: 38.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**23-13S-19W Ellis,KS**

PO Box 8037  
Wichita, KS 67208

**Befort Unit 'A' 1-23**

Job Ticket: 65008

**DST#: 7**

ATTN: Robert Hendrix

Test Start: 2018.11.23 @ 12:37:37

## 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:

40000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
830.00	MW, 30%M 70%W	10.099

Total Length: 830.00 ft      Total Volume: 10.099 bbl

Num Fluid Samples: 0

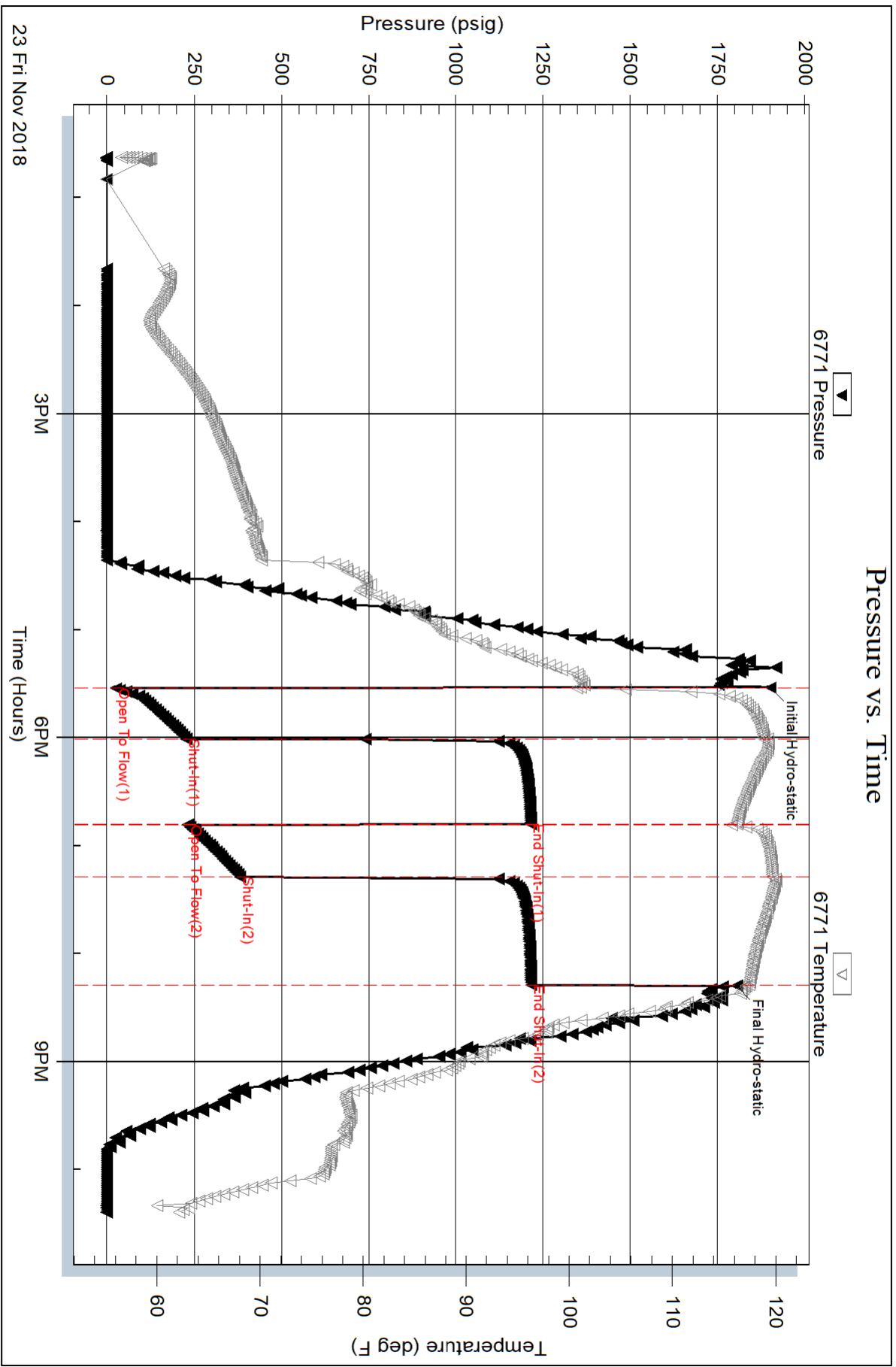
Num Gas Bombs: 0

Serial #:

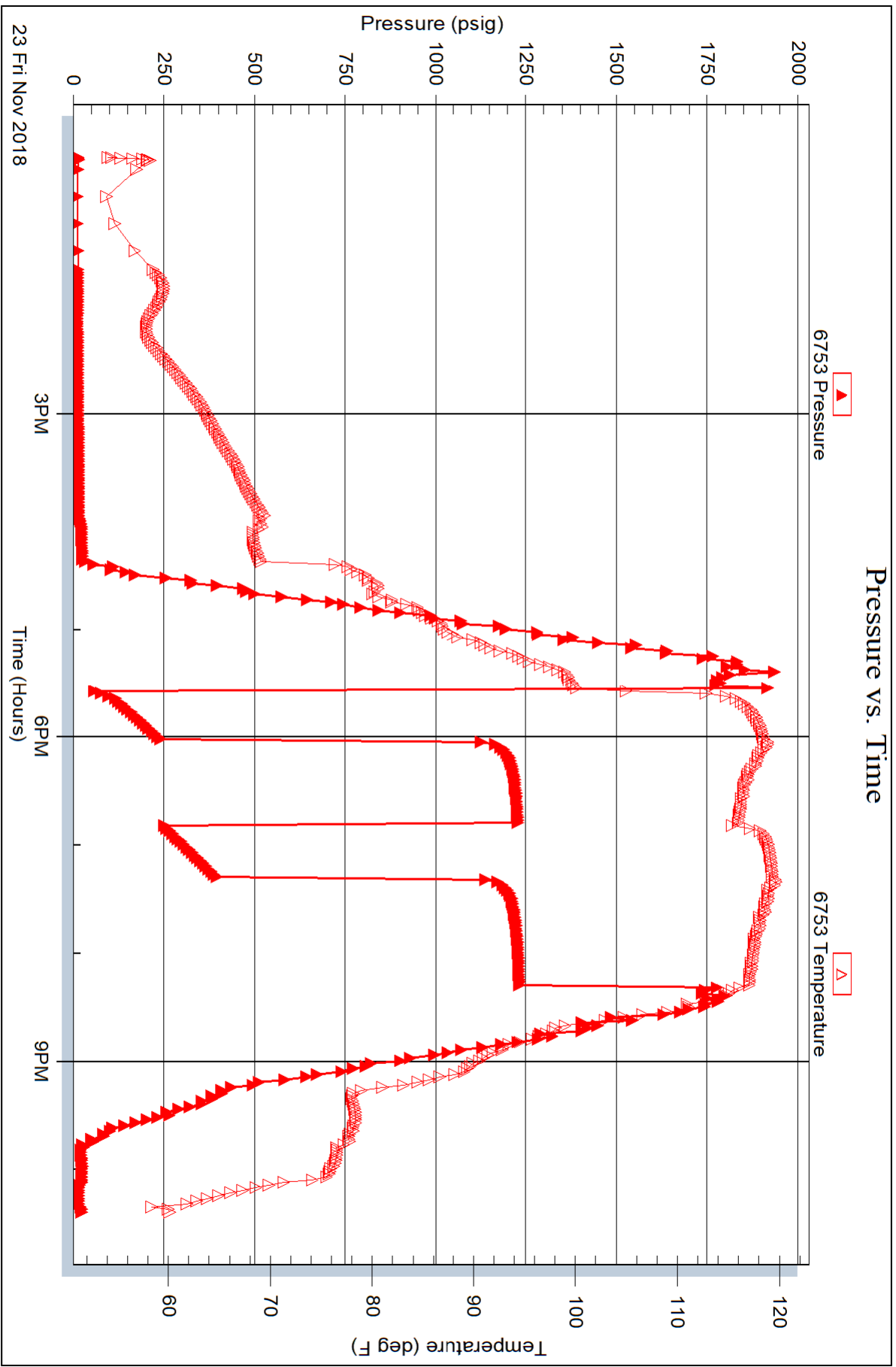
Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .19@60deg









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65002

Well Name & No. Beafort Unit A #1-23 Test No. 1 Date 11/8/18  
 Company Cobalt Energy LLC Elevation 2037 KB 2032 GL  
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208  
 Co. Rep / Geo. Robert Hendrix Rig Murfin 8  
 Location: Sec. 23 Twp 13 S Rge. 19 W Co. Ellis State KS

Interval Tested 3242-3274 Zone Tested Lower Topeka  
 Anchor Length 32' Drill Pipe Run 3040 Mud Wt. 9.0  
 Top Packer Depth 3237 Drill Collars Run 180 Vis 54  
 Bottom Packer Depth 3242 Wt. Pipe Run \_\_\_\_\_ WL 6.0  
 Total Depth 3274 Chlorides 4100 ppm System LCM 2#

Blow Description IF-BOTD 12 mins. Built to 33.10"  
ISI - Very weak surface flow  
FF-BOTB 12 mins. Built for 29.14"  
BI - No blow

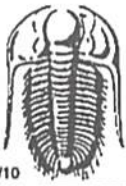
Rec	Feet of	%gas	%oil	%water	%mud
<u>560</u>	<u>MW</u>			<u>95</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 560' BHT 109° Gravity \_\_\_\_\_ API RW .09 @ 41 °F Chlorides 133000 ppm

(A) Initial Hydrostatic <u>1585</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1455</u>
(B) First Initial Flow <u>28</u>	<input type="checkbox"/> Jars _____	T-Started <u>1521</u>
(C) First Final Flow <u>192</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1918</u>
(D) Initial Shut-In <u>1002</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2143</u>
(E) Second Initial Flow <u>196</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>11/9 0021</u>
(F) Second Final Flow <u>289</u>	<input checked="" type="checkbox"/> Mileage <u>20 RT</u> <u>20</u>	Comments _____
(G) Final Shut-In <u>999</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1548</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
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>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>40</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1145</u>
	Sub Total <u>1145</u>	MP/DST Disc't _____

Approved By \_\_\_\_\_ Our Representative Brennan Louisdale

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65003

Well Name & No. Beafort Unit A #1-23 Test No. 2 Date 11/19/18  
 Company Cobalt Energy LLC Elevation 2037 KB 2632 GL  
 Address 115 S Belmont #12, PO Box 8037 Wichita, KS 67208  
 Co. Rep / Geo. Robert Hendrix Rig Murfin 8  
 Location: Sec. 23 Twp 13 S Rge. 19 W Co. Ellis State KS

Interval Tested 3360-3408 Zone Tested Lansing "C+D"  
 Anchor Length 48' Drill Pipe Run 3167 Mud Wt. 9.1  
 Top Packer Depth 3355 Drill Collars Run 180 Vis 55  
 Bottom Packer Depth 3360 Wt. Pipe Run --- WL 6.4  
 Total Depth 3408 Chlorides 4900 ppm System LCM 2#

Blow Description IF-BOB 20secs. Built to 246.75"  
ISF-BOB 6mins. Built to 54.89"  
FF-BOB 3mins. Built to 292.72"  
FSF-BOB 12mins. Built to 57.41"

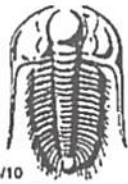
Rec	Feet of	%gas	%oil	%water	%mud
<u>2056</u>	<u>CGO</u>	<u>30</u>	<u>70</u>		
Rec	Feet of <u>GTS (FSI)</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2056 BHT 113° Gravity 38 API RW --- @ --- F Chlorides --- ppm  
 (A) Initial Hydrostatic 1640  Test 1050 T-On Location 1443  
 (B) First Initial Flow 137  Jars --- T-Started 1502  
 (C) First Final Flow 309  Safety Joint 75 T-Open 1726  
 (D) Initial Shut-In 981  Circ Sub 50 T-Pulled 1941  
 (E) Second Initial Flow 323  Hourly Standby 1.25h 100 T-Out 11/20 0056  
 (F) Second Final Flow 625  Mileage 20 RT 20 Comments Wait on trucks  
 (G) Final Shut-In 946  Sampler ---  
 (H) Final Hydrostatic 1609  Straddle ---  EM Tool 350  
 Shale Packer ---  Ruined Shale Packer ---  
 Extra Packer ---  Ruined Packer ---  
 Extra Recorder ---  Extra Copies ---

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 60  
 Sub Total 1295  
 Sub Total 1295  
 Total 1295  
 MP/DST Disc't ---

Approved By \_\_\_\_\_ Our Representative Brennan Lonsdale

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65004

Well Name & No. Reform Unit "A" #1-23 Test No. 3 Date 11/20/18  
 Company Cobalt Energy LLC Elevation 2037 KB 2032 GL  
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208  
 Co. Rep / Geo. Robert Hendrix Rig Martin 8  
 Location: Sec. 23 Twp 13 S Rge. 19 W Co. Ellis State KS

Interval Tested 3406-3433 Zone Tested Lansing "F+F"  
 Anchor Length 27' Drill Pipe Run 3231 Mud Wt. 9.0  
 Top Packer Depth 3401 Drill Collars Run 180 Vis 61  
 Bottom Packer Depth 3406 Wt. Pipe Run \_\_\_\_\_ WL 6.4  
 Total Depth 3433 Chlorides 4,500 ppm System LCM 2#

Blow Description IF - slowly built to 11.15"  
BSI - slowly built to 3.02"  
FF - slowly built to 10.88"  
FST - Very weak surface blow

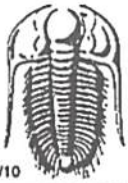
Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>VWOCM</u>		<u>15</u>	<u>40</u>	<u>45</u>
<u>140</u>	<u>OCM</u>		<u>25</u>		<u>25</u>
	<u>105' GIP</u>				

Rec Total 200 BHT 106° Gravity 33 API RW .10 @ 59 °F Chlorides 72,500 ppm

(A) Initial Hydrostatic <u>1627</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0755</u>
(B) First Initial Flow <u>32</u>	<input type="checkbox"/> Jars _____	T-Started <u>0814</u>
(C) First Final Flow <u>63</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1105</u>
(D) Initial Shut-In <u>806</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1450</u>
(E) Second Initial Flow <u>79</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1706</u>
(F) Second Final Flow <u>110</u>	<input checked="" type="checkbox"/> Mileage <u>20RT 20</u>	Comments _____
(G) Final Shut-In <u>794</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1632</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
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>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1495</u>
	Sub Total <u>1145</u>	MP/DST Disc't _____

Approved By \_\_\_\_\_ Our Representative Brannan Lousdale

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65005

Well Name & No. BeFord Unit "A" #1-23 Test No. 4 Date 11/21/18  
 Company Cobalt Energy LLC Elevation 2037 KB 2032 GL  
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208  
 Co. Rep / Geo. Robert Hendrix Rig Martin 8  
 Location: Sec. 23 Twp 13 S Rge. 19 W Co. Ellis State KS

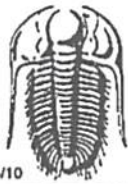
Interval Tested 3434-3456 Zone Tested Lansing "A"  
 Anchor Length 3429 22' Drill Pipe Run 3263 Mud Wt. 9.0  
 Top Packer Depth 3434 3429 Drill Collars Run 180 Vis 61  
 Bottom Packer Depth 3431 Wt. Pipe Run \_\_\_\_\_ WL 6.4  
 Total Depth 3456 Chlorides 4,500 ppm System LCM 2<sup>nd</sup>  
 Blow Description IF - slowly built to 1.88"  
PSI - No blow  
PF - slowly built to 1.68"  
PSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>OSM</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 25' BHT 103° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 1685  Test 1050 T-On Location 11/20 2327  
 (B) First Initial Flow 31  Jars \_\_\_\_\_ T-Started 2346  
 (C) First Final Flow 46  Safety Joint 75 T-Open 0241  
 (D) Initial Shut-In 890  Circ Sub \_\_\_\_\_ T-Pulled 0441  
 (E) Second Initial Flow 49  Hourly Standby \_\_\_\_\_ T-Out 0643  
 (F) Second Final Flow 57  Mileage 20 RT 20 Comments \_\_\_\_\_  
 (G) Final Shut-In 872  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1638  Straddle \_\_\_\_\_  EM Tool 350  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 350  
 Accessibility \_\_\_\_\_ Total 1495  
 Sub Total 1145 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Braman Lonsdale

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65006

Well Name & No. Belmont Unit "A" #1-23 Test No. 5 Date 11/21/18  
 Company Cobalt Energy LLC Elevation 2037 KB 2032 GL  
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208  
 Co. Rep / Geo. Robert Hendrix Rig Murfin 8  
 Location: Sec. 23 Twp 13 S Rge. 19 W Co. Ellis State KS

Interval Tested 3468-3536 Zone Tested Lansing "H-J"  
 Anchor Length 68' Drill Pipe Run 3295 Mud Wt. 9.0  
 Top Packer Depth 3463 Drill Collars Run 180 Vis 52  
 Bottom Packer Depth 3468 Wt. Pipe Run \_\_\_\_\_ WL 6.4  
 Total Depth 3536 Chlorides 4600 ppm System LCM 2#

Blow Description IF - slowly built to 4.09"  
ISF - No blow  
FF - slowly built to 15.72" (BOB 39 mins)  
BSF - No blow

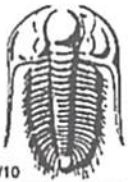
Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>HOCM</u>		<u>45</u>		<u>55</u>
	<u>30' GIP</u>				

Rec Total 150' BHT 104° Gravity 32 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1712</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1744</u>
(B) First Initial Flow <u>22</u>	<input type="checkbox"/> Jars _____	T-Started <u>1806</u>
(C) First Final Flow <u>49</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2046</u>
(D) Initial Shut-In <u>1007</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>11/22</u> <u>0011</u>
(E) Second Initial Flow <u>49</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0227</u>
(F) Second Final Flow <u>78</u>	<input checked="" type="checkbox"/> Mileage <u>20 RT</u> <u>20</u>	Comments _____
(G) Final Shut-In <u>1097</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1686</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
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>70</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1495</u>
	Sub Total <u>1145</u>	MP/DST Disc't _____

Approved By \_\_\_\_\_ Our Representative Brennan Louisdale

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65007**

Well Name & No. Defert Unit 'A' #1-23 Test No. 6 Date 11/22/18  
 Company Cobalt Energy LLC Elevation 2037 KB 2632 GL  
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208  
 Co. Rep / Geo. Robert Hendrix Rig Murphy 8  
 Location: Sec. 23 Twp 13 S Rge. 19 W Co. Ellis State KS

Interval Tested 3642-3690 Zone Tested Arbuckle  
 Anchor Length 48' Drill Pipe Run 3449 Mud Wt. 9.1  
 Top Packer Depth 3637 Drill Collars Run 180 Vis 48  
 Bottom Packer Depth 3642 Wt. Pipe Run \_\_\_\_\_ WL 7.2  
 Total Depth 3690 Chlorides 4,600 ppm System LCM 2<sup>#</sup>  
 Blow Description IF - slowly built to 4.51"  
FSI - No blow  
FF - slowly built to 0.91"  
FSI - No blow

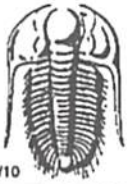
Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>OSM</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 65' BHT 106° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1887</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1737</u>
(B) First Initial Flow <u>22</u>	<input type="checkbox"/> Jars _____	T-Started <u>1756</u>
(C) First Final Flow <u>38</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2043</u>
(D) Initial Shut-In <u>1075</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2358</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0152</u>
(F) Second Final Flow <u>47</u>	<input checked="" type="checkbox"/> Mileage <u>20 RT</u> 20	Comments _____
(G) Final Shut-In <u>1022</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1828</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
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>60</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1495</u>
	Sub Total <u>1145</u>	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. 65008

Well Name & No. Refort Unit "A" #1-23 Test No. 7 Date 11/23/18  
 Company Cobalt Energy LLC Elevation 2037 KB 2032 GL  
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208  
 Co. Rep / Geo. Robert Hendrix Rig Martin 8  
 Location: Sec. 23 Twp 13 S Rge. 19 W Co. Ellis State KS

Interval Tested 3688-3700 Zone Tested Arbuckle  
 Anchor Length 12' Drill Pipe Run 3512 Mud Wt. 9.1  
 Top Packer Depth 3683 Drill Collars Run 180 Vis 60+  
 Bottom Packer Depth 3688 Wt. Pipe Run — WL 6.4  
 Total Depth 3700 Chlorides 4,500 ppm System LCM 3#  
 Blow Description IF-BOB 4mins. Built to 47.54"  
FSI - No blow  
FF-BOB 10mins. Built to 36.47"  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>830</u>	<u>MW</u>			<u>70</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 830' BHT 117° Gravity — API RW 19 @ 60° F Chlorides 4,000 ppm

(A) Initial Hydrostatic <u>1902</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0903</u>
(B) First Initial Flow <u>26</u>	<input type="checkbox"/> Jars <u>—</u>	T-Started <u>0925</u>
(C) First Final Flow <u>227</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1420</u>
(D) Initial Shut-In <u>1215</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>1705</u>
(E) Second Initial Flow <u>232</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>1912</u>
(F) Second Final Flow <u>381</u>	<input checked="" type="checkbox"/> Mileage <u>20RT x 2</u> 40	Comments <u>Changed drilling line. Back @ 1237</u>
(G) Final Shut-In <u>1216</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>1805</u>	<input type="checkbox"/> Straddle <u>—</u>	<input checked="" type="checkbox"/> EM Tool <u>350</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>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>—</u>	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility <u>—</u>	Total <u>1515</u>
	Sub Total <u>1165</u>	MP/DST Disc't <u>—</u>

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.