



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Evelyn A #1-27

27-3s-26w Decatur,KS

Start Date: 2017.06.17 @ 10:31:00

End Date: 2017.06.17 @ 18:40:00

Job Ticket #: 64033 DST #: 1

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

Printed: 2017.06.20 @ 15:33:48



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

27-3s-26w Decatur,KS

PO Box 8037
Wichita KS 67208

Evelyn A #1-27

Job Ticket: 64033

DST#: 1

ATTN: Larry Nicholson

Test Start: 2017.06.17 @ 10:31:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:34:00

Time Test Ended: 18:40:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Interval: 3519.00 ft (KB) To 3562.00 ft (KB) (TVD)

Reference Elevations: 2559.00 ft (KB)

Total Depth: 3562.00 ft (KB) (TVD)

2554.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press@RunDepth: 236.32 psig @ 3523.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.17

End Date:

2017.06.17

Last Calib.:

2017.06.17

Start Time: 10:31:01

End Time:

18:40:00

Time On Btm:

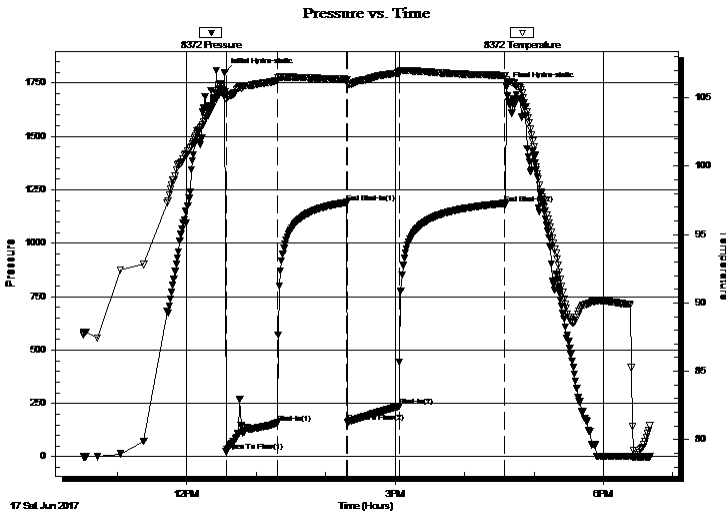
2017.06.17 @ 12:33:00

Time Off Btm:

2017.06.17 @ 16:36:00

TEST COMMENT: 45-IFP- BOB in 24 min.
60-ISIP- No Blow
45-FFP- BOB in 26 1/2min.
90-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1797.99	105.41	Initial Hydro-static
1	24.09	104.89	Open To Flow (1)
46	159.36	106.28	Shut-In(1)
106	1191.09	106.35	End Shut-In(1)
106	163.19	106.01	Open To Flow (2)
151	236.32	106.82	Shut-In(2)
242	1186.33	106.62	End Shut-In(2)
243	1731.13	106.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
247.00	MCW 30% m 70% w	1.80
208.00	MCW 5% m 95% w	2.92
0.00	Show of Oil in Tool	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

Cobalt Energy LLC

27-3s-26w Decatur, KS

PO Box 8037
Wichita KS 67208

Evelyn A #1-27

ATTN: Larry Nicholson

Job Ticket: 64033

DST#: 1

Test Start: 2017.06.17 @ 10:31:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:34:00

Time Test Ended: 18:40:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Interval: **3519.00 ft (KB) To 3562.00 ft (KB) (TVD)**

Total Depth: 3562.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2559.00 ft (KB)

2554.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6668 Inside

Press@RunDepth: psig @ 3523.00 ft (KB)

Start Date: 2017.06.17 End Date: 2017.06.17

Start Time: 10:31:01 End Time: 18:40:00

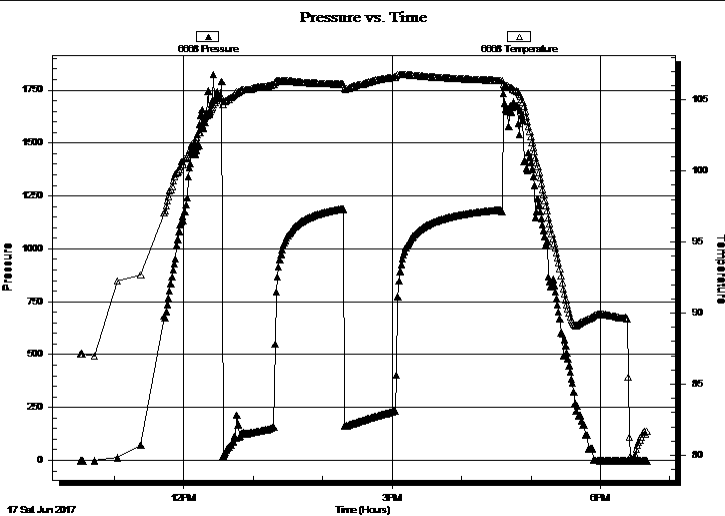
Capacity: 8000.00 psig

Last Calib.: 2017.06.17

Time On Btm:

Time Off Btm:

TEST COMMENT: 45-IFP- BOB in 24 min.
60-ISIP- No Blow
45-FFP- BOB in 26 1/2min.
90-FSIP- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
247.00	MCW 30% m 70% w	1.80
208.00	MCW 5% m 95% w	2.92
0.00	Show of Oil in Tool	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

27-3s-26w Decatur,KS

PO Box 8037
Wichita KS 67208

Evelyn A #1-27

Job Ticket: 64033

DST#: 1

ATTN: Larry Nicholson

Test Start: 2017.06.17 @ 10:31:00

Tool Information

Drill Pipe:	Length: 3327.00 ft	Diameter: 3.80 inches	Volume: 46.67 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 47.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3519.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	73.00 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			3490.00	
Shut In Tool	5.00			3495.00	
Sampler	2.00			3497.00	
Hydraulic tool	5.00			3502.00	
Jars	5.00			3507.00	
Safety Joint	2.00			3509.00	
Packer	5.00			3514.00	30.00 Bottom Of Top Packer
Packer	5.00			3519.00	
Stubb	1.00			3520.00	
Perforations	2.00			3522.00	
Change Over Sub	1.00			3523.00	
Recorder	0.00	6668	Inside	3523.00	
Recorder	0.00	8372	Outside	3523.00	
Blank Spacing	31.00			3554.00	
Change Over Sub	1.00			3555.00	
Perforations	4.00			3559.00	
Bullnose	3.00			3562.00	43.00 Bottom Packers & Anchor
Total Tool Length:	73.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

27-3s-26w Decatur,KS

PO Box 8037
Wichita KS 67208

Evelyn A #1-27

Job Ticket: 64033

DST#: 1

ATTN: Larry Nicholson

Test Start: 2017.06.17 @ 10:31:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

94000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 6.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
247.00	MCW 30%m 70%w	1.798
208.00	MCW 5%m 95%w	2.918
0.00	Show of Oil in Tool	0.000

Total Length: 455.00 ft Total Volume: 4.716 bbl

Num Fluid Samples: 0

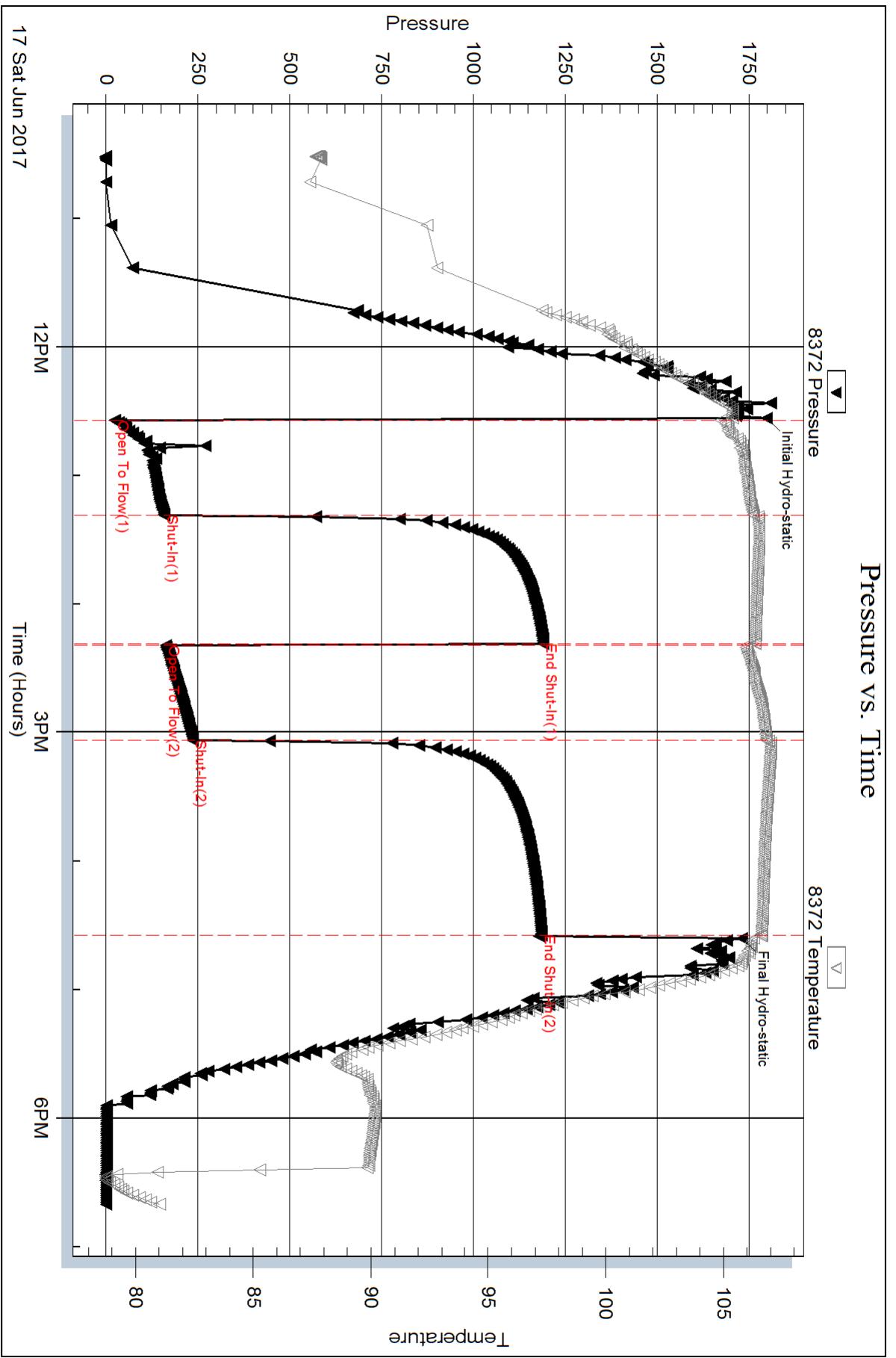
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .070 @ 85



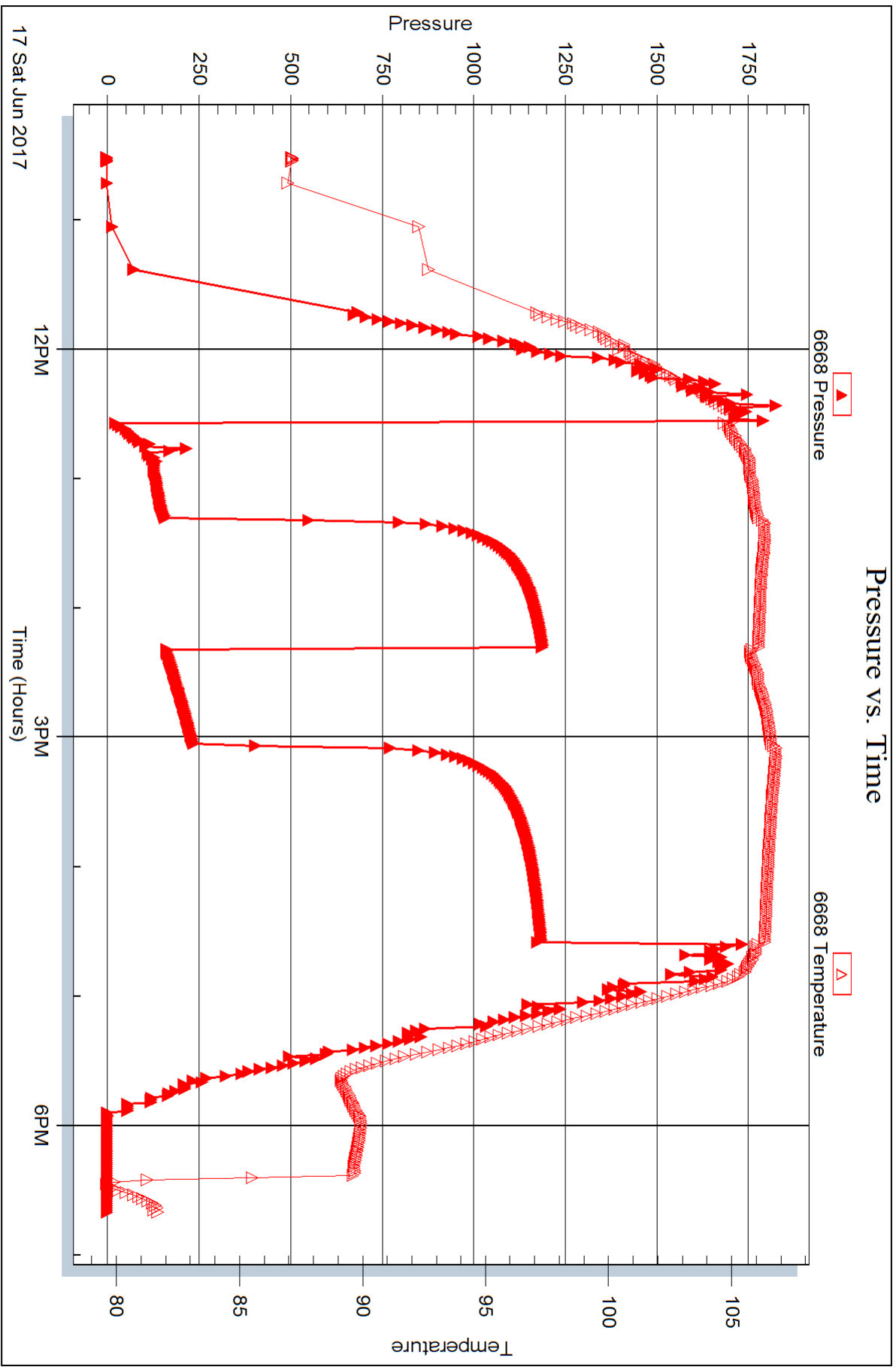
Serial #: 6668

Inside

Cobalt Energy LLC

Evelyn A #1-27

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64033

Printed: 2017.06.20 @ 15:33:49



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Evelyn A #1-27

27-3s-26w Decatur,KS

Start Date: 2017.06.18 @ 03:21:00

End Date: 2017.06.18 @ 10:40:00

Job Ticket #: 64034 DST #: 2

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

Printed: 2017.06.20 @ 15:26:36

Cobalt Energy LLC
27-3s-26w Decatur,KS
Evelyn A #1-27
DST # 2
LKC " B "
2017.06.18



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

27-3s-26w Decatur,KS

PO Box 8037
Wichita KS 67208

Evelyn A #1-27

Job Ticket: 64034

DST#: 2

ATTN: Larry Nicholson

Test Start: 2017.06.18 @ 03:21:00

GENERAL INFORMATION:

Formation: **LKC " B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:03:30

Time Test Ended: 10:40:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3565.00 ft (KB) To 3599.00 ft (KB) (TVD)

Reference Elevations: 2559.00 ft (KB)

Total Depth: 3599.00 ft (KB) (TVD)

2554.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press@RunDepth: 52.95 psig @ 3566.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.18

End Date: 2017.06.18

Last Calib.: 2017.06.18

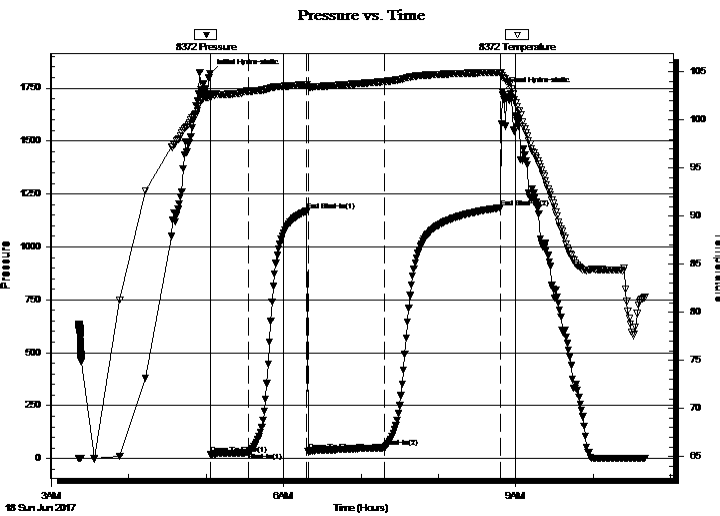
Start Time: 03:21:01

End Time: 10:40:00

Time On Btm: 2017.06.18 @ 05:03:00

Time Off Btm: 2017.06.18 @ 08:49:30

TEST COMMENT: 30-IFP- Built to 4 3/4in. [1"-4] [2"-11] [3"-17] [4"-24]
45-ISIP- No Blow
60-FFP- Built to 8 1/2in. [1"-4] [2"-9] [3"-16] [4"-24] [5"-31] [6"-39] [7"-47] [8"-56"]
90-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1817.42	102.61	Initial Hydro-static
1	21.56	102.30	Open To Flow (1)
30	28.59	103.01	Shut-In(1)
75	1170.93	103.67	End Shut-In(1)
76	33.57	103.48	Open To Flow (2)
136	52.95	104.00	Shut-In(2)
225	1185.20	104.95	End Shut-In(2)
227	1735.33	104.61	Final Hydro-static

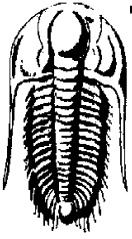
Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCO 40% m 60% o	0.30
50.00	CO 100%	0.25
0.00	160 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

27-3s-26w Decatur, KS

PO Box 8037
Wichita KS 67208

Evelyn A #1-27

Job Ticket: 64034 **DST#: 2**

ATTN: Larry Nicholson

Test Start: 2017.06.18 @ 03:21:00

GENERAL INFORMATION:

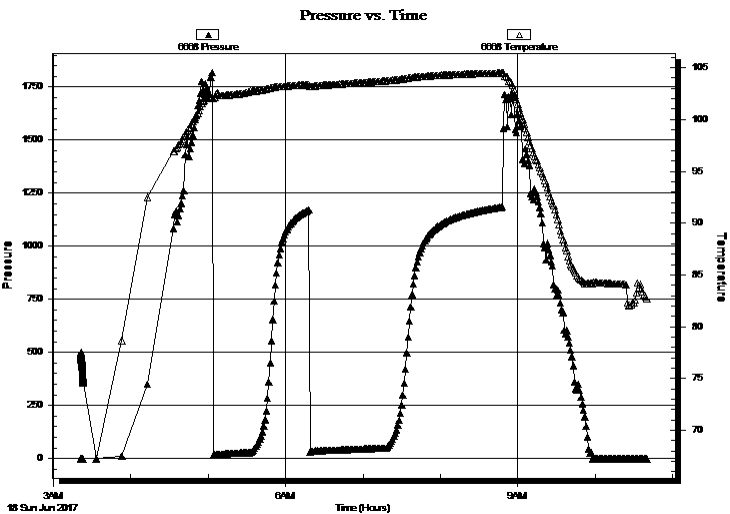
Formation: **LKC " B "**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 05:03:30
 Tester: Jim Svaty
 Time Test Ended: 10:40:00
 Unit No: 76
 Interval: **3565.00 ft (KB) To 3599.00 ft (KB) (TVD)**
 Reference Elevations: 2559.00 ft (KB)
 Total Depth: 3599.00 ft (KB) (TVD) 2554.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6668

Inside

Press@RunDepth: psig @ 3566.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.18 End Date: 2017.06.18 Last Calib.: 2017.06.18
 Start Time: 03:21:01 End Time: 10:40:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP- Built to 4 3/4in. [1"-4] [2"-11] [3"-17] [4"-24]
 45-ISIP- No Blow
 60-FFP- Built to 8 1/2in. [1"-4] [2"-9] [3"-16] [4"-24] [5"-31] [6"-39] [7"-47] [8"-56"]
 90-FSIP- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCO 40% m 60% o	0.30
50.00	CO 100%	0.25
0.00	160 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

27-3s-26w Decatur,KS

PO Box 8037
Wichita KS 67208

Evelyn A #1-27

Job Ticket: 64034

DST#: 2

ATTN: Larry Nicholson

Test Start: 2017.06.18 @ 03:21:00

Tool Information

Drill Pipe:	Length: 3359.00 ft	Diameter: 3.80 inches	Volume: 47.12 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 48.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3565.00 ft			Final 40000.00 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			3538.00	
Shut In Tool	5.00			3543.00	
Hydraulic tool	5.00			3548.00	
Jars	5.00			3553.00	
Safety Joint	2.00			3555.00	
Packer	5.00			3560.00	28.00 Bottom Of Top Packer
Packer	5.00			3565.00	
Stubb	1.00			3566.00	
Recorder	0.00	6668	Inside	3566.00	
Recorder	0.00	8372	Outside	3566.00	
Perforations	30.00			3596.00	
Bullnose	3.00			3599.00	34.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

27-3s-26w Decatur,KS

PO Box 8037
Wichita KS 67208

Evelyn A #1-27

Job Ticket: 64034

DST#: 2

ATTN: Larry Nicholson

Test Start: 2017.06.18 @ 03:21:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 6.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	MCO 40% m 60% o	0.295
50.00	CO 100%	0.246
0.00	160 GIP	0.000

Total Length: 110.00 ft Total Volume: 0.541 bbl

Num Fluid Samples: 0

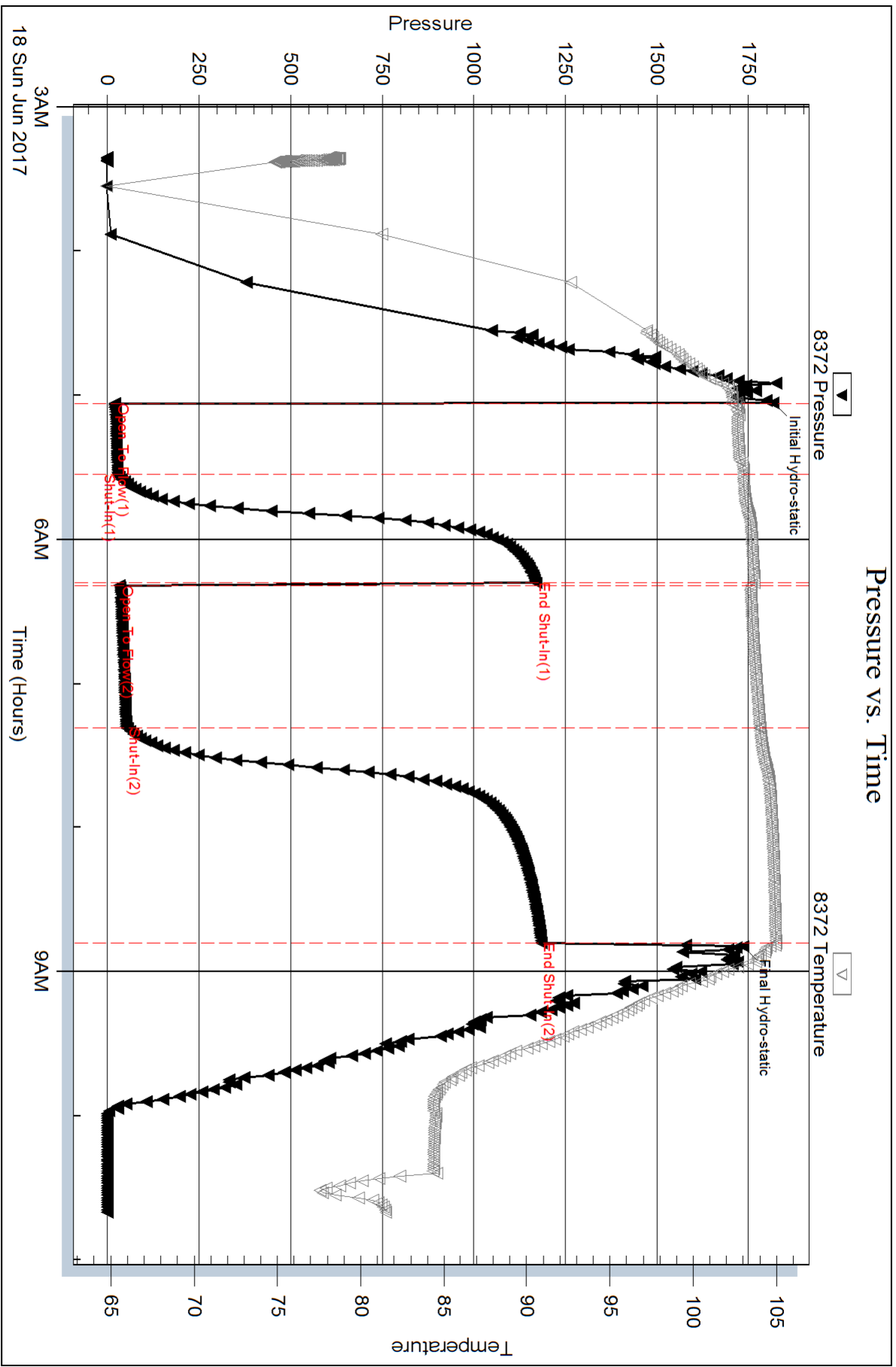
Num Gas Bombs: 0

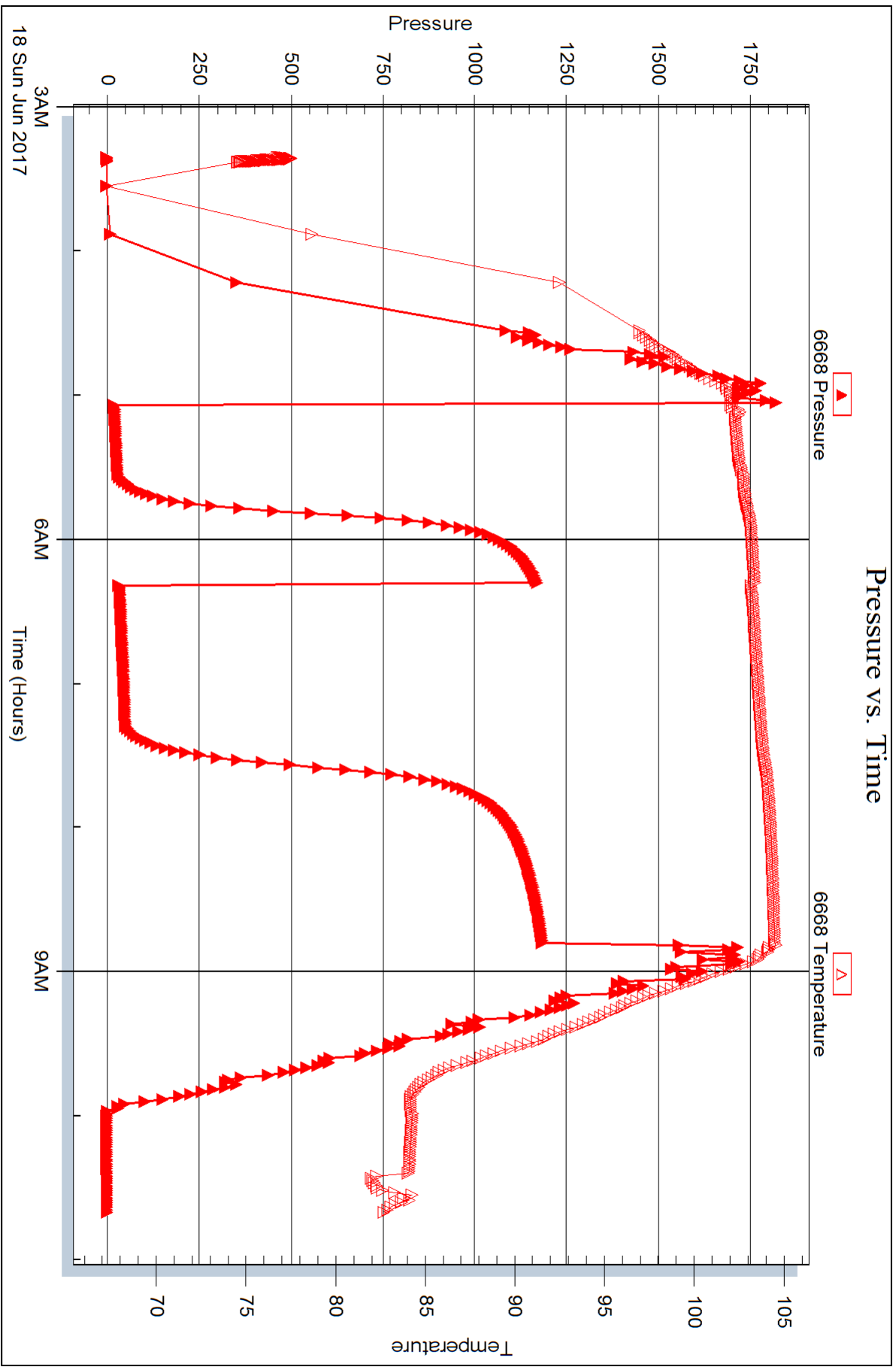
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Evelyn A #1-27

27-3s-26w Decatur,KS

Start Date: 2017.06.18 @ 22:18:00

End Date: 2017.06.19 @ 05:08:00

Job Ticket #: 64035 DST #: 3

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

Printed: 2017.06.20 @ 14:54:29

Cobalt Energy LLC
27-3s-26w Decatur,KS
Evelyn A #1-27
DST # 3
LKC " H "
2017.06.18



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

27-3s-26w Decatur,KS

PO Box 8037
Wichita KS 67208

Evelyn A #1-27

Job Ticket: 64035

DST#: 3

ATTN: Larry Nicholson

Test Start: 2017.06.18 @ 22:18:00

GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:15:00

Time Test Ended: 05:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3652.00 ft (KB) To 3685.00 ft (KB) (TVD)

Reference Elevations: 2559.00 ft (KB)

Total Depth: 3685.00 ft (KB) (TVD)

2554.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press@RunDepth: 21.44 psig @ 3653.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.18

End Date:

2017.06.19

Last Calib.:

2017.06.19

Start Time: 22:18:01

End Time:

05:07:30

Time On Btm:

2017.06.19 @ 00:14:30

Time Off Btm:

2017.06.19 @ 03:17:00

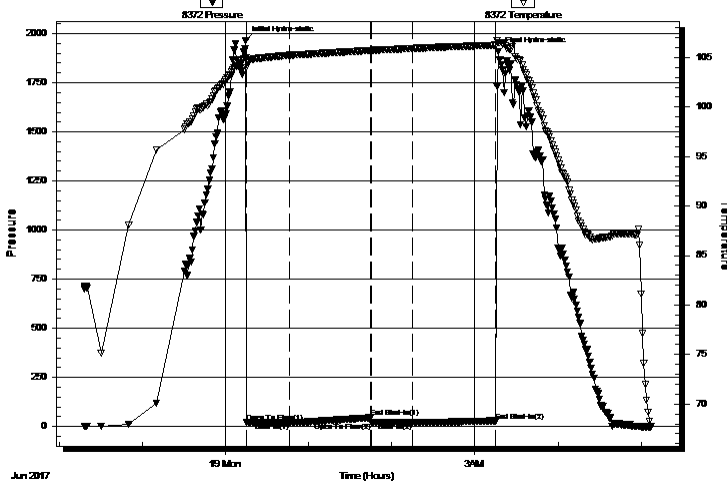
TEST COMMENT: 30-IFP- Weak Surface Blow Died in 10 min.

60-ISIP- No Blow

30-FFP- No Blow

60-FSIP- No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1965.19	104.99	Initial Hydro-static
1	20.75	103.96	Open To Flow (1)
32	20.01	105.24	Shut-In(1)
90	44.51	105.70	End Shut-In(1)
91	20.34	105.70	Open To Flow (2)
121	21.44	105.91	Shut-In(2)
181	28.57	106.25	End Shut-In(2)
183	1908.74	106.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Oil Speck Mud 100%	0.01

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC
 PO Box 8037
 Wichita KS 67208
 ATTN: Larry Nicholson

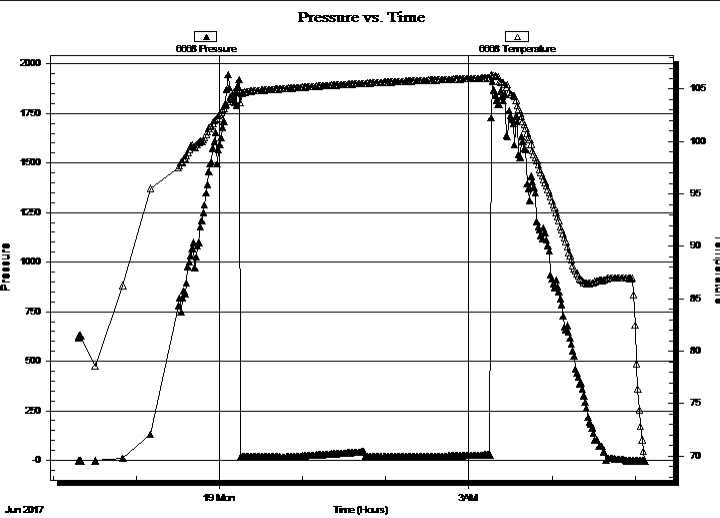
27-3s-26w Decatur, KS
Evelyn A #1-27
 Job Ticket: 64035 **DST#: 3**
 Test Start: 2017.06.18 @ 22:18:00

GENERAL INFORMATION:

Formation: LKC " H "			Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock:	ft (KB)		Tester: Jim Svaty
Time Tool Opened: 00:15:00			Unit No: 76
Time Test Ended: 05:08:00			Reference Elevations: 2559.00 ft (KB)
Interval: 3652.00 ft (KB) To 3685.00 ft (KB) (TVD)			2554.00 ft (CF)
Total Depth: 3685.00 ft (KB) (TVD)			KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair		

Serial #: 6668	Inside				
Press@RunDepth: psig @ 3653.00 ft (KB)			Capacity: 8000.00 psig		
Start Date: 2017.06.18	End Date: 2017.06.19		Last Calib.: 2017.06.19		
Start Time: 22:18:01	End Time: 05:07:30		Time On Btm:		
			Time Off Btm:		

TEST COMMENT: 30-IFP- Weak Surface Blow Died in 10 min.
 60-ISIP- No Blow
 30-FFP- No Blow
 60-FSIP- No Blow



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

Recovery		
Length (ft)	Description	Volume (bbl)
2.00	Oil Speck Mud 100%	0.01

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

27-3s-26w Decatur,KS

PO Box 8037
Wichita KS 67208

Evelyn A #1-27

Job Ticket: 64035

DST#: 3

ATTN: Larry Nicholson

Test Start: 2017.06.18 @ 22:18:00

Tool Information

Drill Pipe:	Length: 3452.00 ft	Diameter: 3.80 inches	Volume: 48.42 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 49.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3652.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3625.00	
Shut In Tool	5.00			3630.00	
Hydraulic tool	5.00			3635.00	
Jars	5.00			3640.00	
Safety Joint	2.00			3642.00	
Packer	5.00			3647.00	28.00 Bottom Of Top Packer
Packer	5.00			3652.00	
Stubb	1.00			3653.00	
Recorder	0.00	6668	Inside	3653.00	
Recorder	0.00	8372	Outside	3653.00	
Perforations	29.00			3682.00	
Bullnose	3.00			3685.00	33.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

27-3s-26w Decatur,KS

PO Box 8037
Wichita KS 67208

Evelyn A #1-27

Job Ticket: 64035

DST#: 3

ATTN: Larry Nicholson

Test Start: 2017.06.18 @ 22:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 6.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Oil Speck Mud 100%	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

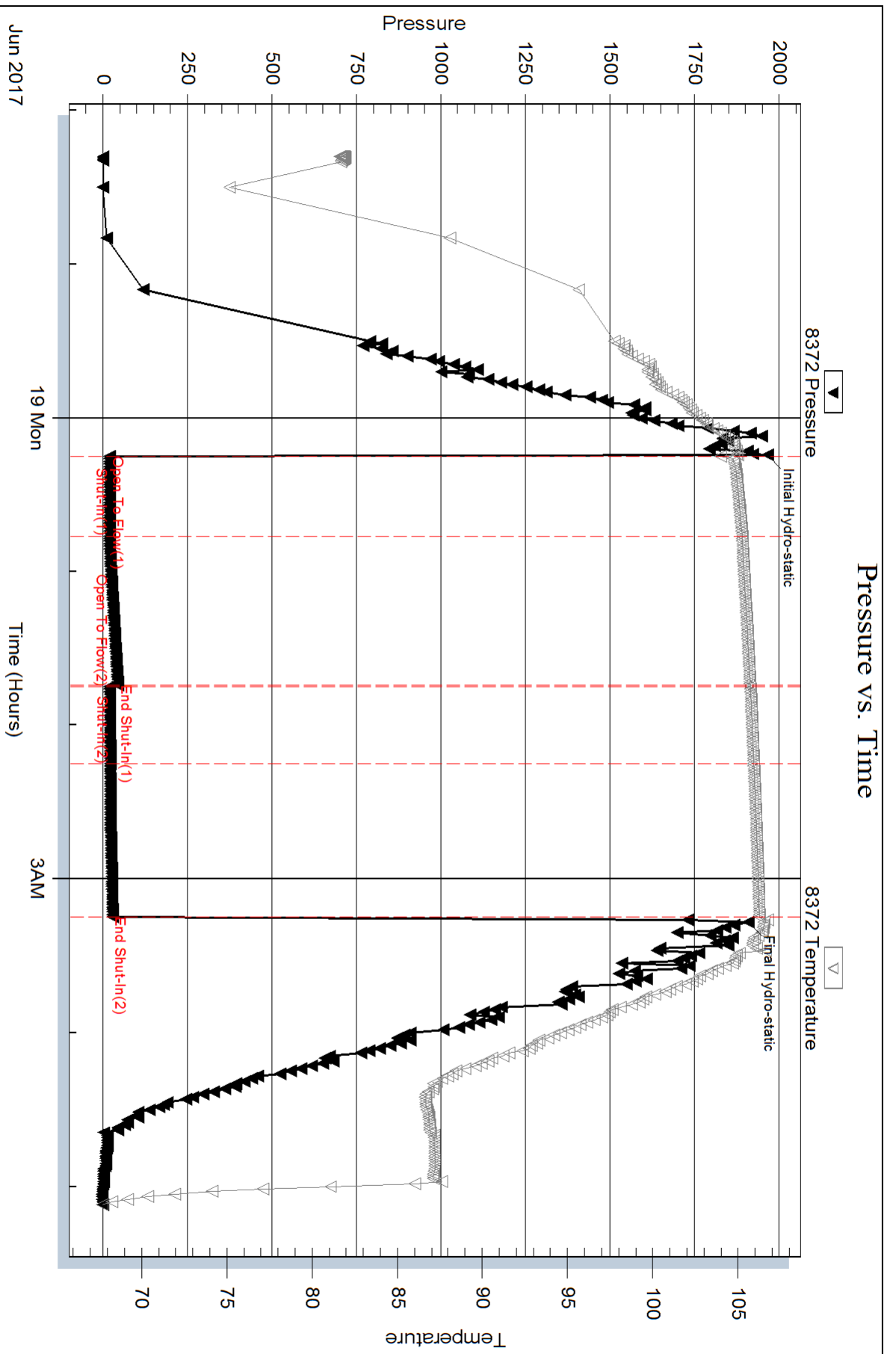
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



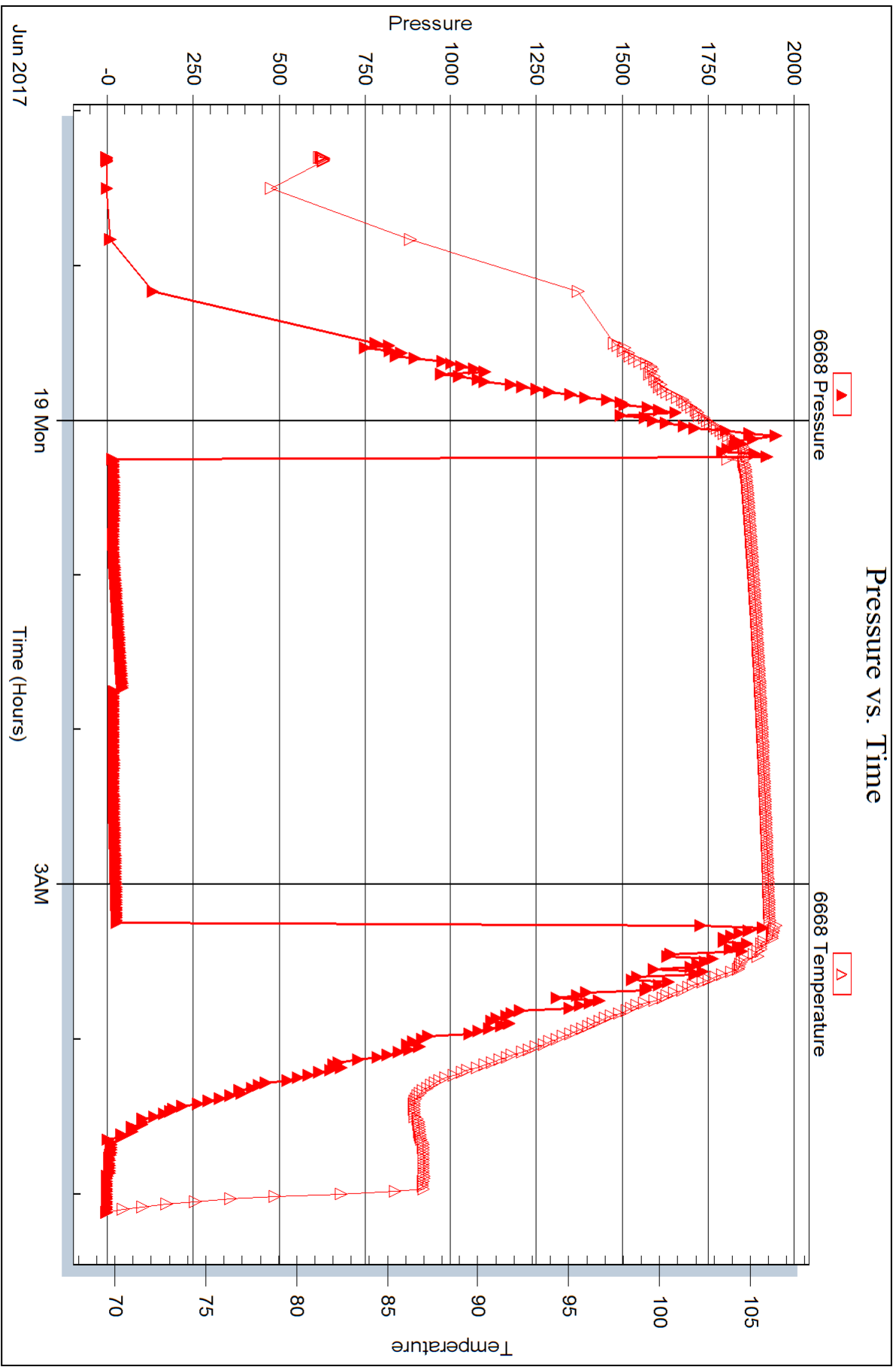
Serial #: 6668

Inside

Cobalt Energy LLC

Evelyn A #1-27

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Evelyn A #1-27

27-3s-26w Decatur,KS

Start Date: 2017.06.19 @ 15:40:00

End Date: 2017.06.19 @ 22:50:00

Job Ticket #: 64036 DST #: 4

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

Printed: 2017.06.20 @ 14:53:46



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

27-3s-26w Decatur, KS

PO Box 8037
Wichita KS 67208

Evelyn A #1-27

Job Ticket: 64036

DST#: 4

ATTN: Larry Nicholson

Test Start: 2017.06.19 @ 15:40:00

GENERAL INFORMATION:

Formation: **LKC "J - L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:51:00

Time Test Ended: 22:50:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3688.00 ft (KB) To 3758.00 ft (KB) (TVD)

Reference Elevations: 2559.00 ft (KB)

Total Depth: 3758.00 ft (KB) (TVD)

2554.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press@RunDepth: 46.80 psig @ 3723.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.19 End Date: 2017.06.19

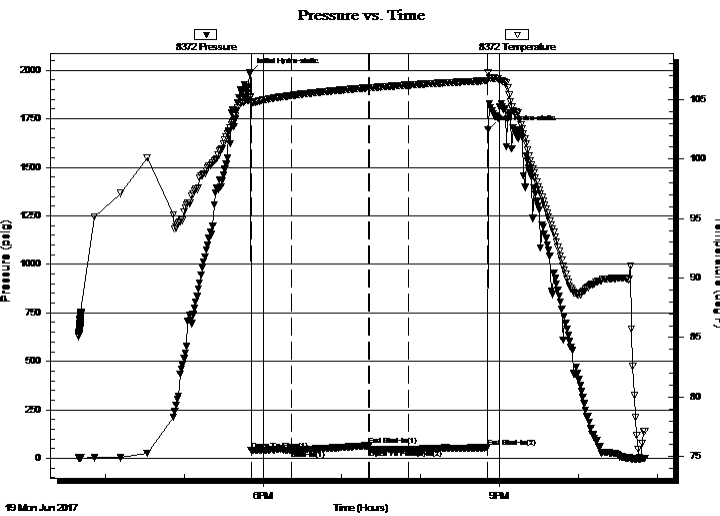
Last Calib.: 2017.06.19

Start Time: 15:40:01 End Time: 22:50:00

Time On Btm: 2017.06.19 @ 17:50:30

Time Off Btm: 2017.06.19 @ 20:51:00

TEST COMMENT: 30-IFP- Weak Surface Blow Died in 9 min.
60-ISIP- No Blow
30-FFP- No Blow
60-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1988.88	105.22	Initial Hydro-static
1	41.08	104.76	Open To Flow (1)
31	42.36	105.34	Shut-In(1)
90	66.04	106.00	End Shut-In(1)
91	44.09	105.99	Open To Flow (2)
120	46.80	106.22	Shut-In(2)
180	55.85	106.60	End Shut-In(2)
181	1692.43	107.29	Final Hydro-static

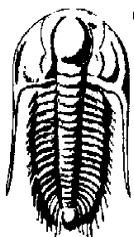
Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.01

* 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: Larry Nicholson

27-3s-26w Decatur,KS

Evelyn A #1-27

Job Ticket: 64036 **DST#: 4**

Test Start: 2017.06.19 @ 15:40:00

GENERAL INFORMATION:

Formation: **LKC " J - L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:51:00

Time Test Ended: 22:50:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3688.00 ft (KB) To 3758.00 ft (KB) (TVD)

Total Depth: 3758.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2559.00 ft (KB)

2554.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6668 Inside

Press@RunDepth: psig @ 3723.00 ft (KB)

Start Date: 2017.06.19 End Date: 2017.06.19

Start Time: 15:40:01 End Time: 22:50:00

Capacity: 8000.00 psig

Last Calib.: 2017.06.19

Time On Btm:

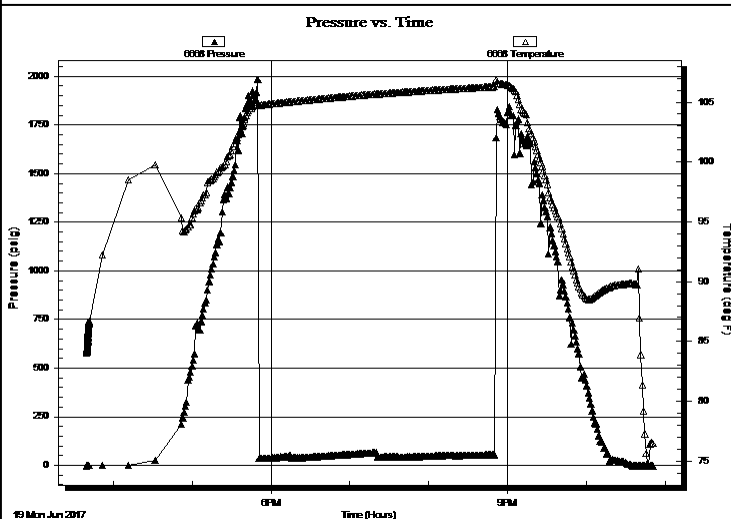
Time Off Btm:

TEST COMMENT: 30-IFP- Weak Surface Blow Died in 9 min.

60-ISIP- No Blow

30-FFP- No Blow

60-FSIP- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.01

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

27-3s-26w Decatur,KS

PO Box 8037
Wichita KS 67208

Evelyn A #1-27

Job Ticket: 64036

DST#: 4

ATTN: Larry Nicholson

Test Start: 2017.06.19 @ 15:40:00

Tool Information

Drill Pipe:	Length: 3486.00 ft	Diameter: 3.80 inches	Volume: 48.90 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 49.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3688.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	98.00 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			3661.00	
Shut In Tool	5.00			3666.00	
Hydraulic tool	5.00			3671.00	
Jars	5.00			3676.00	
Safety Joint	2.00			3678.00	
Packer	5.00			3683.00	28.00 Bottom Of Top Packer
Packer	5.00			3688.00	
Stubb	1.00			3689.00	
Perforations	33.00			3722.00	
Change Over Sub	1.00			3723.00	
Recorder	0.00	6668	Inside	3723.00	
Recorder	0.00	8372	Outside	3723.00	
Blank Spacing	31.00			3754.00	
Change Over Sub	1.00			3755.00	
Bullnose	3.00			3758.00	70.00 Bottom Packers & Anchor

Total Tool Length: 98.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

27-3s-26w Decatur,KS

PO Box 8037
Wichita KS 67208

Evelyn A #1-27

Job Ticket: 64036

DST#: 4

ATTN: Larry Nicholson

Test Start: 2017.06.19 @ 15:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 6.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100%	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

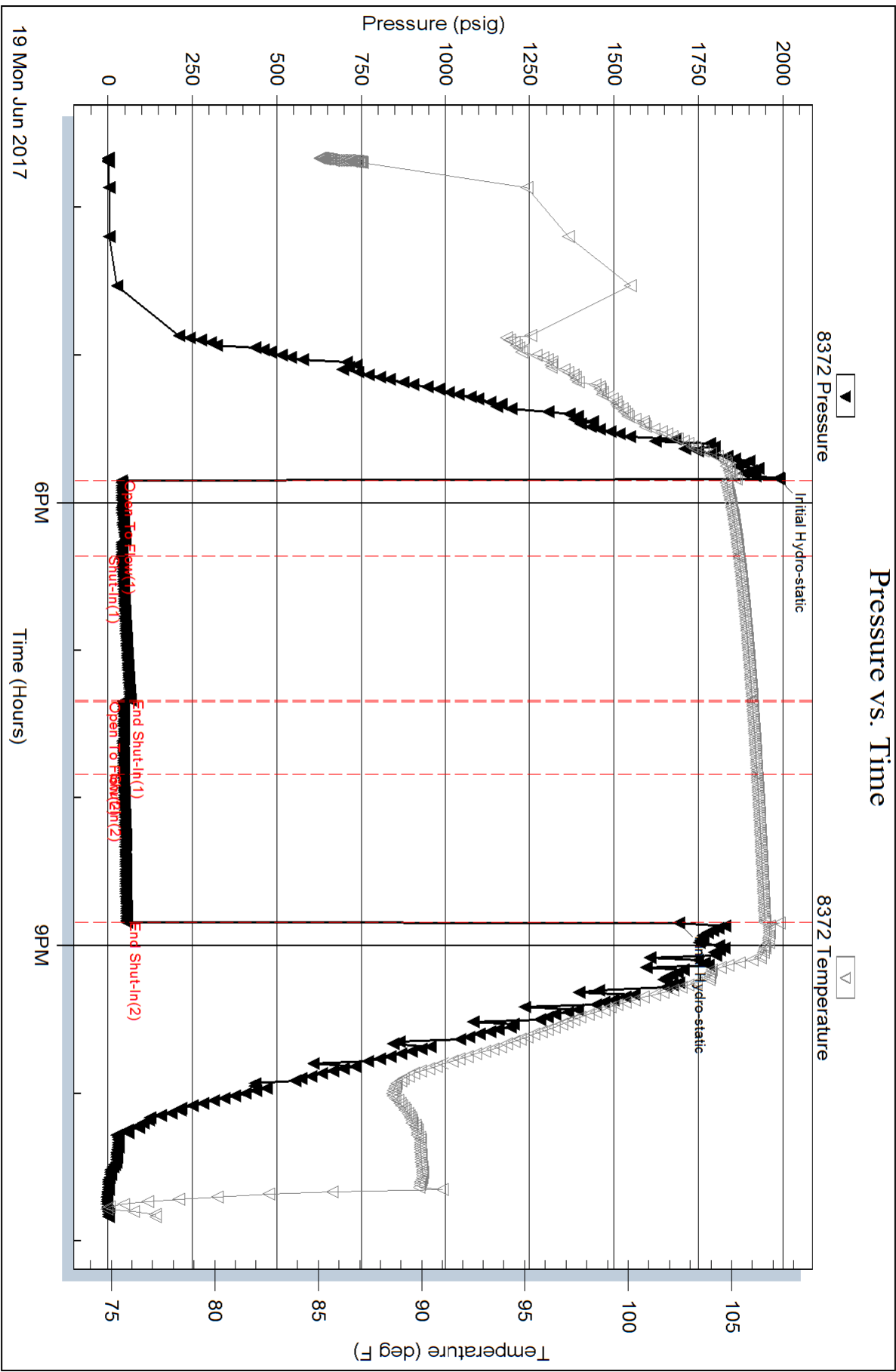
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



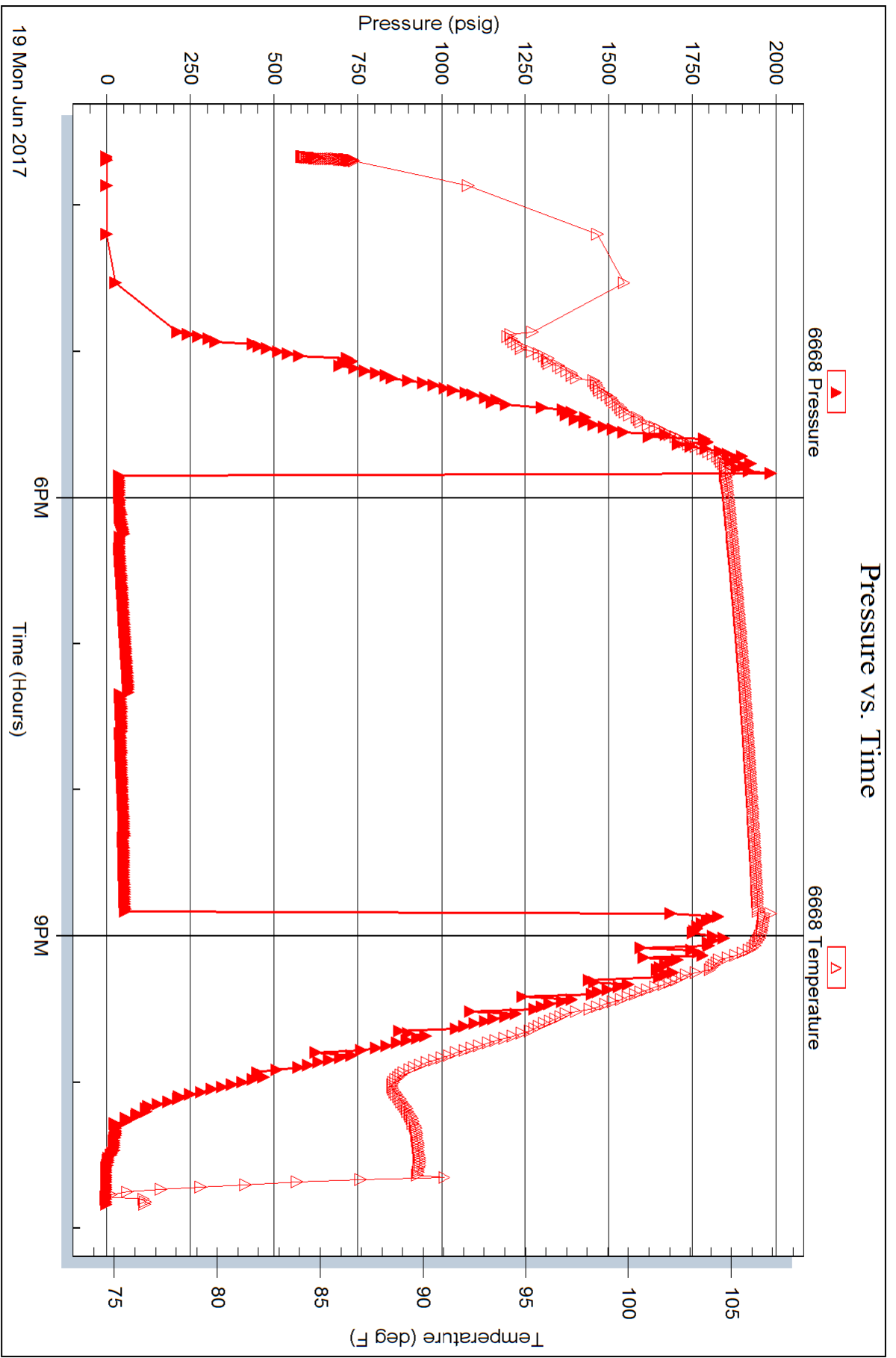
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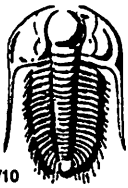
Inside

Cobalt Energy LLC

Evelyn A #1-27

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64033

4/10

Well Name & No. Evelyn A 1-27 Test No. 1 Date 6-17-17
 Company Cobalt Energy LLC Elevation 2559 KB 2554 GL
 Address 115 S. Belmont #12 Box 8037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin 7
 Location: Sec. 27 Twp. 35 Rge. 26 W Co. Decatur State KS

Interval Tested 3519-3562 Zone Tested Toronto
 Anchor Length 4.3 Drill Pipe Run 3327 Mud Wt. 9
 Top Packer Depth ~~3519~~ 3514 Drill Collars Run 18.3 Vis 57
 Bottom Packer Depth ~~3519~~ 3519 Wt. Pipe Run 0 WL 6
 Total Depth 3562 Chlorides 900 ppm System LCM 6
 Blow Description IFP - B.O.B. in 24 min.
ISIP - No Blow
FFP - B.O.B. in 26 1/2 min.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>247</u>	<u>mcw</u>		<u>70</u>	<u>30</u>	
<u>208</u>	<u>mcw</u>		<u>95</u>	<u>5</u>	
	<u>Show of Oil in Tool</u>				

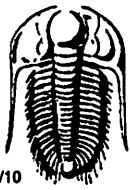
Rec Total 455 BHT 106 Gravity _____ API RW .070 @ 85 °F Chlorides 94000 ppm

(A) Initial Hydrostatic <u>1797</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>09:15</u>
(B) First Initial Flow <u>24</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:31</u>
(C) First Final Flow <u>159</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:34</u>
(D) Initial Shut-In <u>1191</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>16:34</u>
(E) Second Initial Flow <u>163</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>18:40</u>
(F) Second Final Flow <u>236</u>	<input checked="" type="checkbox"/> Mileage <u>54 RT</u> 40.50	Comments _____
(G) Final Shut-In <u>1186</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1731</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>45</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1665.50</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1665.50</u>	

Approved By _____

Our Representative [Signature]

TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64034

Well Name & No. Evelyn A 1-27 Test No. 2 Date 6-18-17
 Company Cobalt Energy LLC Elevation 2559 KB 2554 GL
 Address 115 S. Belmont #12 Box 8037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig MURFIN 7
 Location: Sec. 27 Twp. 3^s Rge. 26^w Co. Decatur State KS

Interval Tested 3565-3599 Zone Tested LKC "B"
 Anchor Length 34 Drill Pipe Run 3359 Mud Wt. 9
 Top Packer Depth 3560 Drill Collars Run 183 Vis 57
 Bottom Packer Depth 3565 Wt. Pipe Run 0 WL 6
 Total Depth 3599 Chlorides 900 ppm System LCM 6

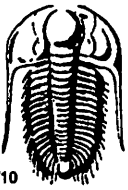
Blow Description IFP - Built to 4 3/4 in. (1"-4)(2"-11)(3"-17)(4"-24)
FSIP - No Blow
FFP - Built to 8 1/2 in. (1"-4)(2"-9)(3"-16)(4"-24)(5"-31)(6"-39)(7"-47)(8"-56)
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>MCO</u>	<u>60</u>		<u>40</u>	
<u>50</u>	<u>CO</u>	<u>100</u>			
<u>-</u>	<u>160 DIP</u>				

Rec Total 110 BHT 105 Gravity 34 API RW @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1817</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>03:05</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>03:21</u>
(C) First Final Flow <u>28</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>05:03</u>
(D) Initial Shut-In <u>1170</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>08:48</u>
(E) Second Initial Flow <u>33</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>10:40</u>
(F) Second Final Flow <u>52</u>	<input checked="" type="checkbox"/> Mileage <u>54 RT</u> 40.50	Comments _____
(G) Final Shut-In <u>1185</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1735</u>	<input type="checkbox"/> Straddle _____	
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<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>1665.50</u>
	Sub Total <u>1665.50</u>	MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
 TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64035

Well Name & No. Evelyn A 1-27 Test No. 3 Date 6-18-17
 Company Cobalt Energy LLC Elevation 2559 KB 2554 GL
 Address 115 S. Belmont #12 Box 8037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murphy 7
 Location: Sec. 27 Twp. 3^s Rge. 26^w Co. Decatur State K5

Interval Tested 3652-3685 Zone Tested LKC "H"
 Anchor Length 33 Drill Pipe Run 3452 Mud Wt. 9
 Top Packer Depth 3647 Drill Collars Run 183 Vis 54
 Bottom Packer Depth 3652 Wt. Pipe Run 0 WL 6.2
 Total Depth 3685 Chlorides 1600 ppm System LCM 6

Blow Description IFP - Weak Surface Blow Died in 10 mins.
ISIP - No Blow
FFP - No Blow
FSIP - No Blow

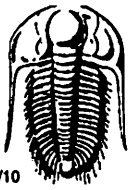
Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Oil Speck Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1965</u>	<input checked="" type="checkbox"/> Test 1050	T-On Location <u>21:30</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>22:18</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>00:15</u>
(D) Initial Shut-In <u>44</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>03:15</u>
(E) Second Initial Flow <u>20</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>05:08</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage 40.50	Comments _____
(G) Final Shut-In <u>28</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>1908</u>	<input type="checkbox"/> Straddle	_____
	<input checked="" type="checkbox"/> Shale Packer 250	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1665.50</u>
	Sub Total <u>1665.50</u>	MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64036

Well Name & No. Evelyn A 1-27 Test No. 4 Date 6-19-17
 Company Cobalt Energy LLC Elevation 2559 KB 2554 GL
 Address 115 S Belmont #12 Box 8037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin 7
 Location: Sec. 27 Twp. 35 Rge. 26 W Co. Decatur State KS

Interval Tested 3688-3758 Zone Tested LKC "J KL"
 Anchor Length 70 Drill Pipe Run 3486 Mud Wt. 9.3
 Top Packer Depth 3683 Drill Collars Run 183 Vis 60
 Bottom Packer Depth 3688 Wt. Pipe Run 0 WL 6.8
 Total Depth 3758 Chlorides 1700 ppm System LCM 6

Blow Description IFP - Weak Surface Blow Died in 9 min.
ISIP - No Blow
FFP - No Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>MUD</u>			<u>100</u>	

Rec Total 2 BHT 107 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1988</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>02:50 PM</u>
(B) First Initial Flow <u>41</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>15:40</u>
(C) First Final Flow <u>42</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>17:51</u>
(D) Initial Shut-In <u>66</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>20:51</u>
(E) Second Initial Flow <u>44</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>22:50</u>
(F) Second Final Flow <u>46</u>	<input checked="" type="checkbox"/> Mileage <u>40.50</u>	Comments <u>Pick up tool AFTER</u>
(G) Final Shut-In <u>55</u>	<input type="checkbox"/> Sampler _____	<u>Last Test.</u>
(H) Final Hydrostatic <u>1692</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1665.50</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1665.50</u>	

Approved By _____ Our Representative [Signature]

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