



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Corey Baker

Bonita Unit A #1-30

30-6S-25W Graham,KS

Start Date: 2018.08.20 @ 22:09:54

End Date: 2018.08.21 @ 10:07:24

Job Ticket #: 63139 DST #: 1

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

Printed: 2018.08.24 @ 09:33:05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC

30-6S-25W Graham,KS

PO Box 8037
Wichita, KS 67208

Bonita Unit A #1-30

ATTN: Corey Baker

Job Ticket: 63139

DST#: 1

Test Start: 2018.08.20 @ 22:09:54

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:08:54

Time Test Ended: 10:07:24

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3706.00 ft (KB) To 3732.00 ft (KB) (TVD)

Reference Elevations: 2620.00 ft (KB)

Total Depth: 3732.00 ft (KB) (TVD)

2615.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753 Outside

Press@RunDepth: 31.92 psig @ 3707.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.20

End Date:

2018.08.21

Last Calib.: 2018.08.21

Start Time: 22:09:59

End Time:

10:07:24

Time On Btm: 2018.08.21 @ 04:08:24

Time Off Btm: 2018.08.21 @ 07:27:24

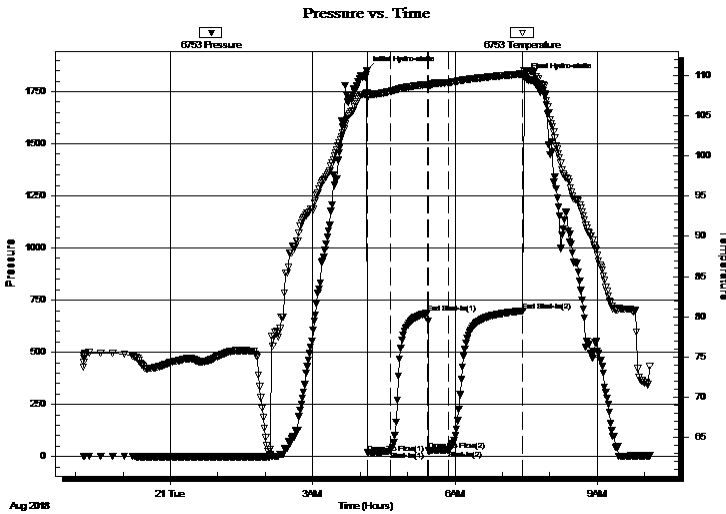
TEST COMMENT: 30- IF- Slowly built to 1 1/4"

45- IS- No blow

30- FF- 1/4" blow

90- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1851.12	107.89	Initial Hydro-static
1	18.35	107.18	Open To Flow (1)
30	24.61	108.01	Shut-In(1)
77	687.55	108.92	End Shut-In(1)
78	28.24	108.77	Open To Flow (2)
104	31.92	109.13	Shut-In(2)
198	698.03	110.20	End Shut-In(2)
199	1815.89	110.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM, 10%O 90%M	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy, LLC

30-6S-25W Graham,KS

PO Box 8037
Wichita, KS 67208

Bonita Unit A #1-30

Job Ticket: 63139

DST#: 1

ATTN: Corey Baker

Test Start: 2018.08.20 @ 22:09:54

Tool Information

Drill Pipe:	Length: 3493.00 ft	Diameter: 3.82 inches	Volume: 49.51 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: 205.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3706.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3681.00	
Shut In Tool	5.00			3686.00	
Hydraulic tool	5.00			3691.00	
Gap Sub	3.00			3694.00	
Safety Joint	3.00			3697.00	
Packer	5.00			3702.00	26.00 Bottom Of Top Packer
Packer	4.00			3706.00	
Stubb	1.00			3707.00	
Recorder	0.00	6771	Inside	3707.00	
Recorder	0.00	6753	Outside	3707.00	
Perforations	22.00			3729.00	
Bullnose	3.00			3732.00	26.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

30-6S-25W Graham,KS

PO Box 8037
Wichita, KS 67208

Bonita Unit A #1-30

Job Ticket: 63139

DST#: 1

ATTN: Corey Baker

Test Start: 2018.08.20 @ 22:09:54

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 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: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCM, 10%O 90%M	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

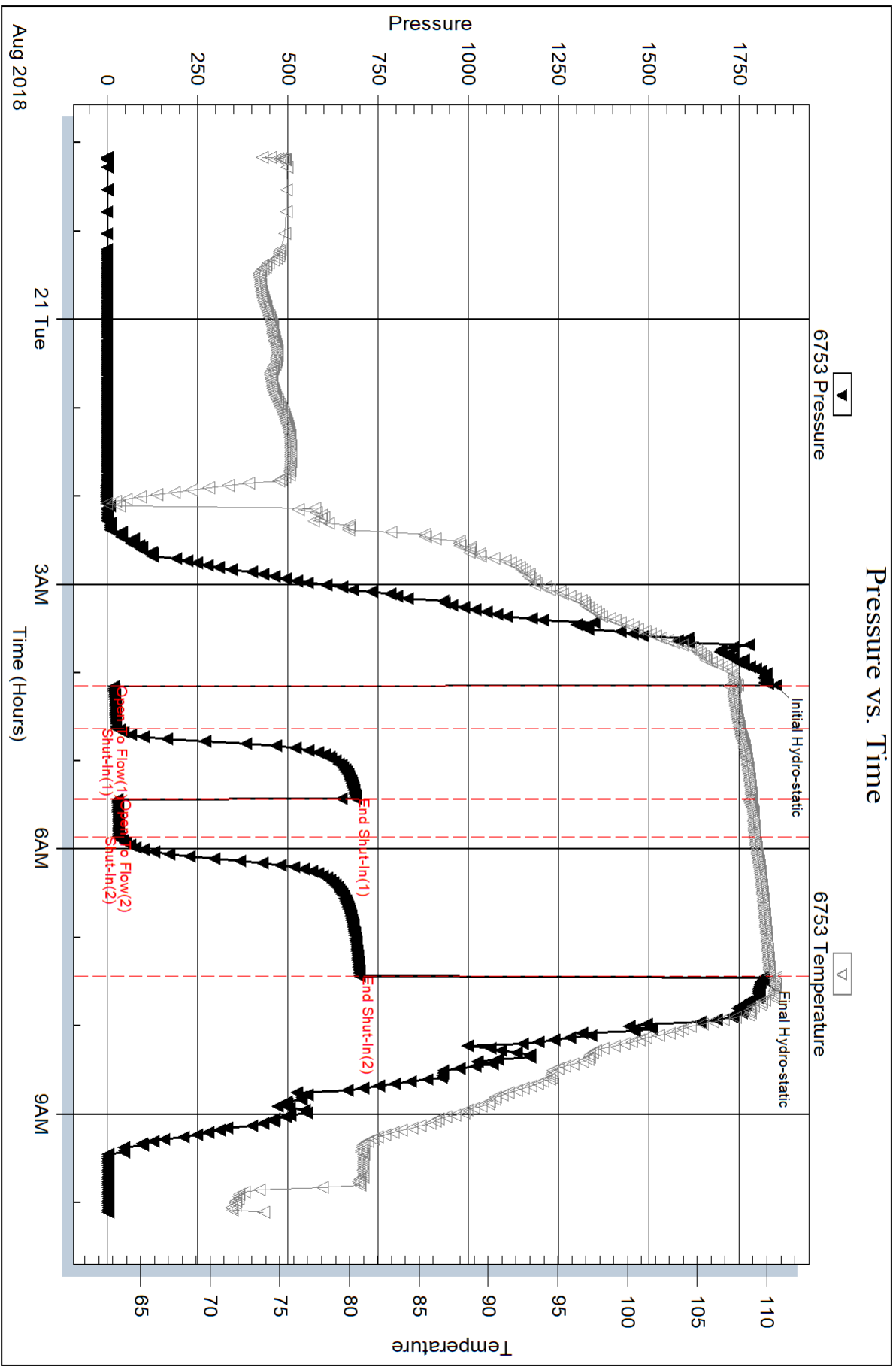
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



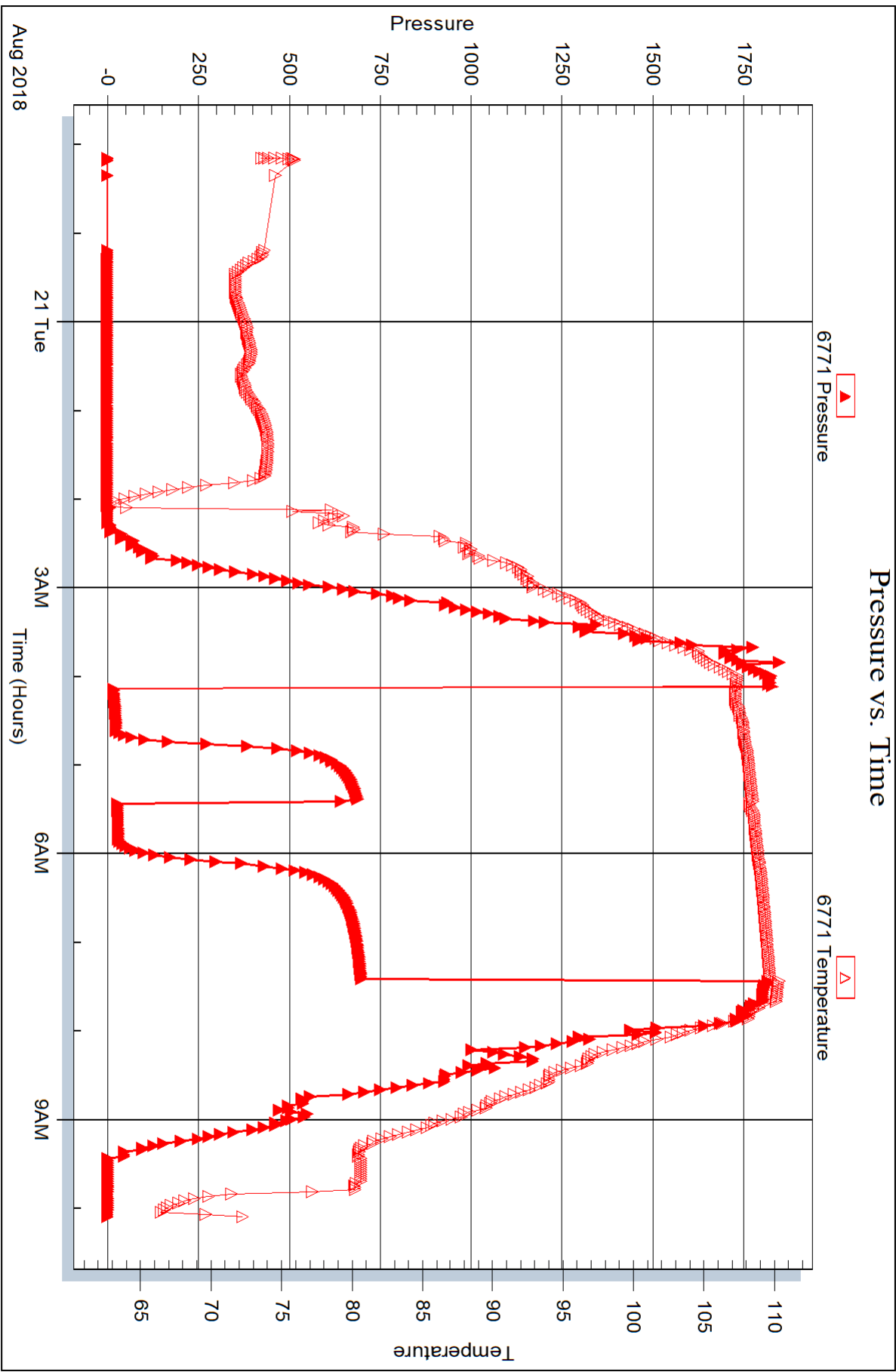
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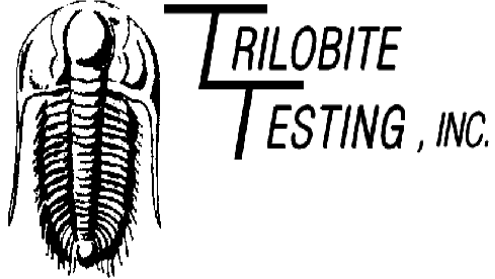
Inside

Cobalt Energy, LLC

Bonita Unit A #1-30

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Corey Baker

Bonita Unit A #1-30

30-6S-25W Graham,KS

Start Date: 2018.08.21 @ 19:30:54

End Date: 2018.08.22 @ 04:40:24

Job Ticket #: 63140 DST #: 2

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

Printed: 2018.08.24 @ 09:32:44

Cobalt Energy, LLC
30-6S-25W Graham,KS
Bonita Unit A #1-30
DST # 2
LKC "D-G"
2018.08.21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC

30-6S-25W Graham, KS

PO Box 8037
Wichita, KS 67208

Bonita Unit A #1-30

ATTN: Corey Baker

Job Ticket: 63140

DST#: 2

Test Start: 2018.08.21 @ 19:30:54

GENERAL INFORMATION:

Formation: **LKC "D-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:02:24

Time Test Ended: 04:40:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3730.00 ft (KB) To 3790.00 ft (KB) (TVD)

Reference Elevations: 2620.00 ft (KB)

Total Depth: 3790.00 ft (KB) (TVD)

2615.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753

Outside

Press@RunDepth: 262.61 psig @ 3731.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.21

End Date:

2018.08.22

Last Calib.:

2018.08.22

Start Time: 19:30:59

End Time:

04:40:24

Time On Btm:

2018.08.21 @ 22:01:54

Time Off Btm:

2018.08.22 @ 01:49:24

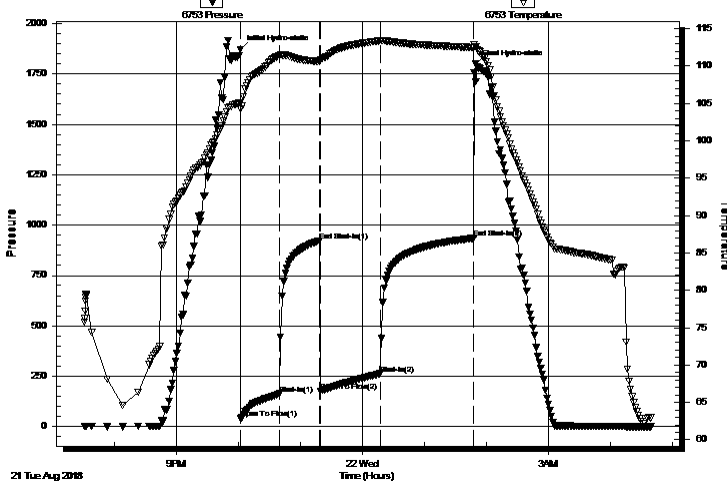
TEST COMMENT: 30- IF- BOB 11mins. Built to 24.75"

45- IS- No blow

60- FF- BOB 21mins. Built to 27"

90- FSI- No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1871.00	105.09	Initial Hydro-static
1	39.23	104.26	Open To Flow (1)
38	162.77	111.39	Shut-In(1)
77	921.93	110.62	End Shut-In(1)
78	175.50	110.72	Open To Flow (2)
136	262.61	113.37	Shut-In(2)
226	934.69	112.49	End Shut-In(2)
228	1798.63	112.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
521.00	MW, 35%M 65%W	5.49
15.00	CO	0.21

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy, LLC

30-6S-25W Graham,KS

PO Box 8037
Wichita, KS 67208

Bonita Unit A #1-30

Job Ticket: 63140

DST#: 2

ATTN: Corey Baker

Test Start: 2018.08.21 @ 19:30:54

Tool Information

Drill Pipe:	Length: 3524.00 ft	Diameter: 3.82 inches	Volume: 49.95 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: 205.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3730.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3705.00	
Shut In Tool	5.00			3710.00	
Hydraulic tool	5.00			3715.00	
Gap Sub	3.00			3718.00	
Safety Joint	3.00			3721.00	
Packer	5.00			3726.00	26.00 Bottom Of Top Packer
Packer	4.00			3730.00	
Stubb	1.00			3731.00	
Recorder	0.00	6771	Inside	3731.00	
Recorder	0.00	6753	Outside	3731.00	
Perforations	20.00			3751.00	
Change Over Sub	1.00			3752.00	
Drill Pipe	31.00			3783.00	
Change Over Sub	1.00			3784.00	
Perforations	3.00			3787.00	
Bullnose	3.00			3790.00	60.00 Bottom Packers & Anchor
Total Tool Length:	86.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

30-6S-25W Graham,KS

PO Box 8037
Wichita, KS 67208

Bonita Unit A #1-30

Job Ticket: 63140

DST#: 2

ATTN: Corey Baker

Test Start: 2018.08.21 @ 19:30:54

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

60000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
521.00	MW, 35%M 65%W	5.488
15.00	CO	0.213

Total Length: 536.00 ft Total Volume: 5.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

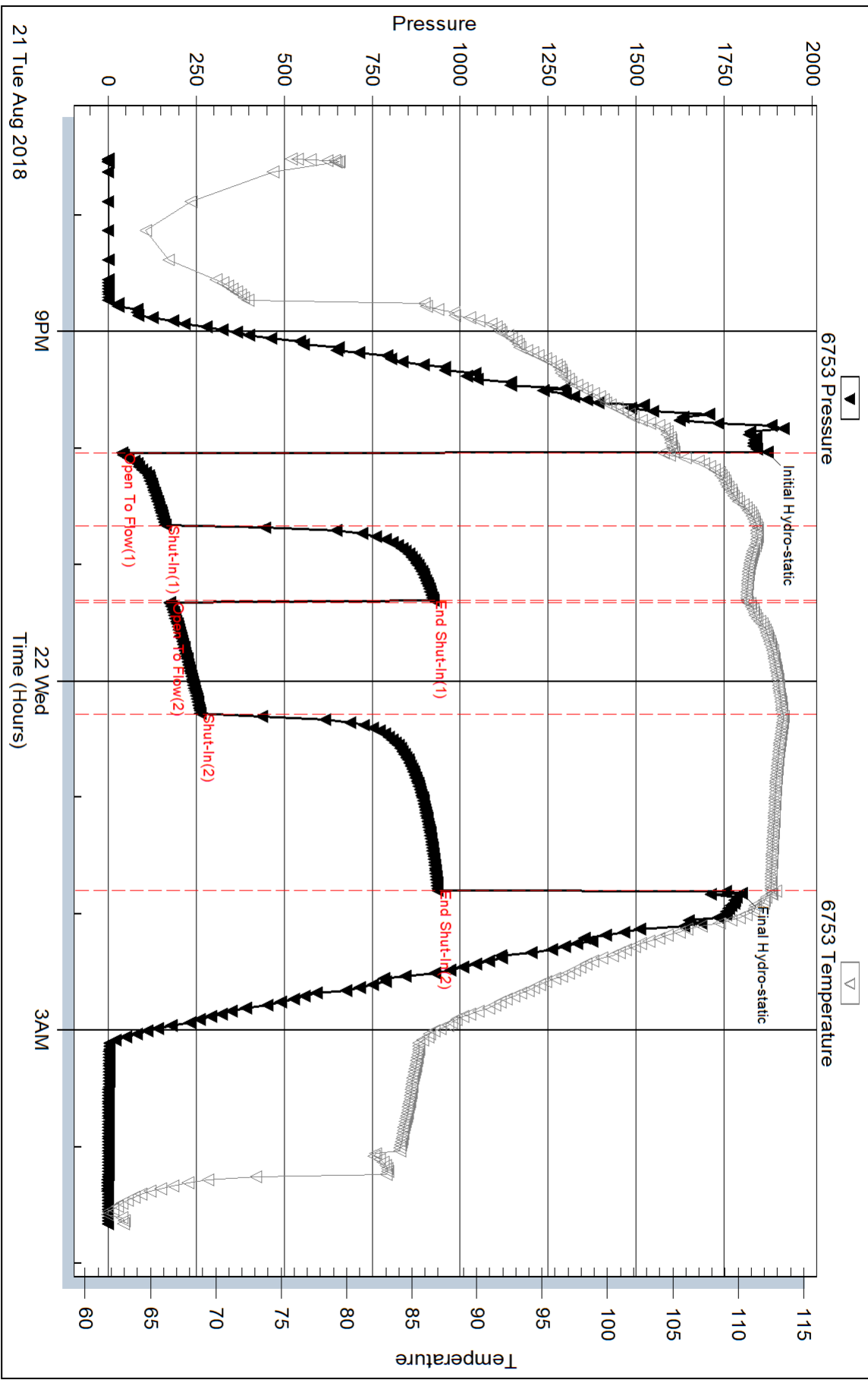
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .13@62deg

Pressure vs. Time



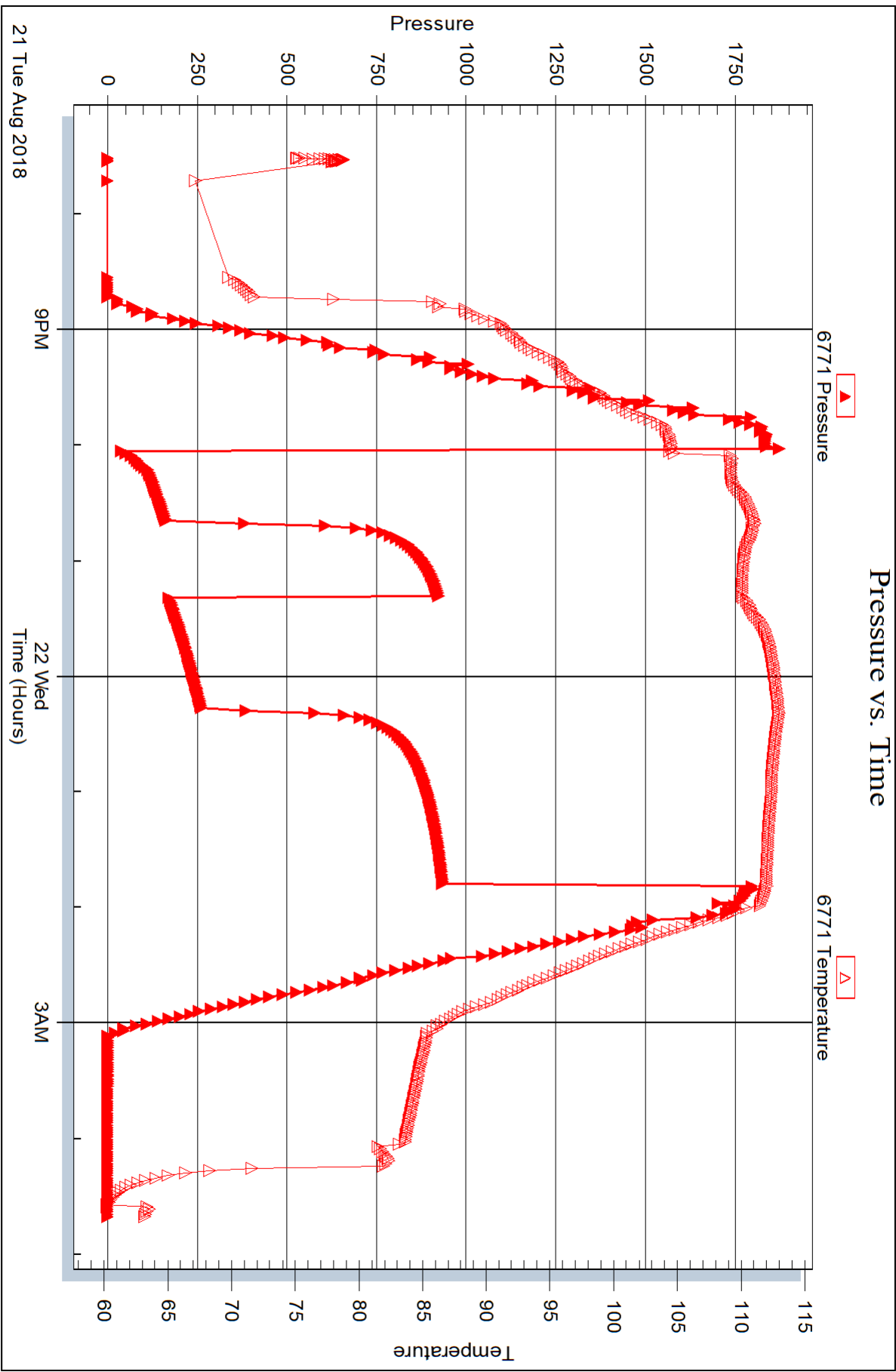
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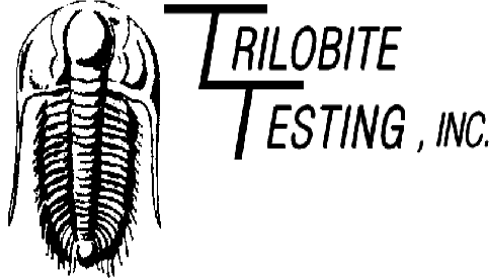
Inside

Cobalt Energy, LLC

Bonita Unit A #1-30

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Corey Baker

Bonita Unit A #1-30

30-6S-25W Graham,KS

Start Date: 2018.08.22 @ 13:58:34

End Date: 2018.08.22 @ 23:03:04

Job Ticket #: 63141 DST #: 3

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

Printed: 2018.08.24 @ 09:32:22

Cobalt Energy, LLC
30-6S-25W Graham,KS
Bonita Unit A #1-30
DST # 3
LKC "H-J"
2018.08.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy, LLC

30-6S-25W Graham, KS

PO Box 8037
Wichita, KS 67208

Bonita Unit A #1-30

ATTN: Corey Baker

Job Ticket: 63141

DST#: 3

Test Start: 2018.08.22 @ 13:58:34

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:55:34

Time Test Ended: 23:03:04

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3788.00 ft (KB) To 3850.00 ft (KB) (TVD)

Reference Elevations: 2620.00 ft (KB)

Total Depth: 3850.00 ft (KB) (TVD)

2615.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753 Outside

Press@RunDepth: 87.84 psig @ 3789.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.22 End Date: 2018.08.22

Last Calib.: 2018.08.22

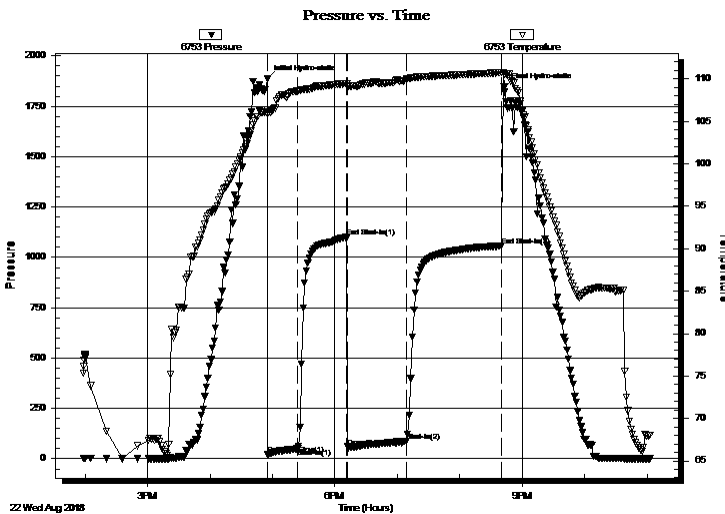
Start Time: 13:58:39 End Time: 23:03:04

Time On Btm: 2018.08.22 @ 16:55:04

Time Off Btm: 2018.08.22 @ 20:42:34

TEST COMMENT: 30- IF- Slow ly built to 4"
45- IS- No blow
60- FF- Slow ly built to 4"
90- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1884.86	106.37	Initial Hydro-static
1	22.27	105.91	Open To Flow (1)
30	49.67	108.63	Shut-In(1)
77	1099.62	109.45	End Shut-In(1)
77	58.79	109.09	Open To Flow (2)
134	87.84	109.99	Shut-In(2)
225	1056.21	110.75	End Shut-In(2)
228	1844.85	110.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WM, 10%W 90%M	0.59
30.00	OSM	0.15
1.00	CO	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

30-6S-25W Graham,KS

PO Box 8037
Wichita, KS 67208

Bonita Unit A #1-30

Job Ticket: 63141

DST#: 3

ATTN: Corey Baker

Test Start: 2018.08.22 @ 13:58:34

Tool Information

Drill Pipe:	Length: 3586.00 ft	Diameter: 3.82 inches	Volume: 50.83 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: 205.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 63000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3788.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	88.00 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			3763.00	
Shut In Tool	5.00			3768.00	
Hydraulic tool	5.00			3773.00	
Gap Sub	3.00			3776.00	
Safety Joint	3.00			3779.00	
Packer	5.00			3784.00	26.00 Bottom Of Top Packer
Packer	4.00			3788.00	
Stubb	1.00			3789.00	
Recorder	0.00	6771	Inside	3789.00	
Recorder	0.00	6753	Outside	3789.00	
Perforations	20.00			3809.00	
Change Over Sub	1.00			3810.00	
Drill Pipe	31.00			3841.00	
Change Over Sub	1.00			3842.00	
Perforations	5.00			3847.00	
Bullnose	3.00			3850.00	62.00 Bottom Packers & Anchor
Total Tool Length:	88.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

30-6S-25W Graham,KS

PO Box 8037
Wichita, KS 67208

Bonita Unit A #1-30

Job Ticket: 63141

DST#: 3

ATTN: Corey Baker

Test Start: 2018.08.22 @ 13:58:34

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	WM, 10%W 90%M	0.590
30.00	OSM	0.148
1.00	CO	0.005

Total Length: 151.00 ft Total Volume: 0.743 bbl

Num Fluid Samples: 0

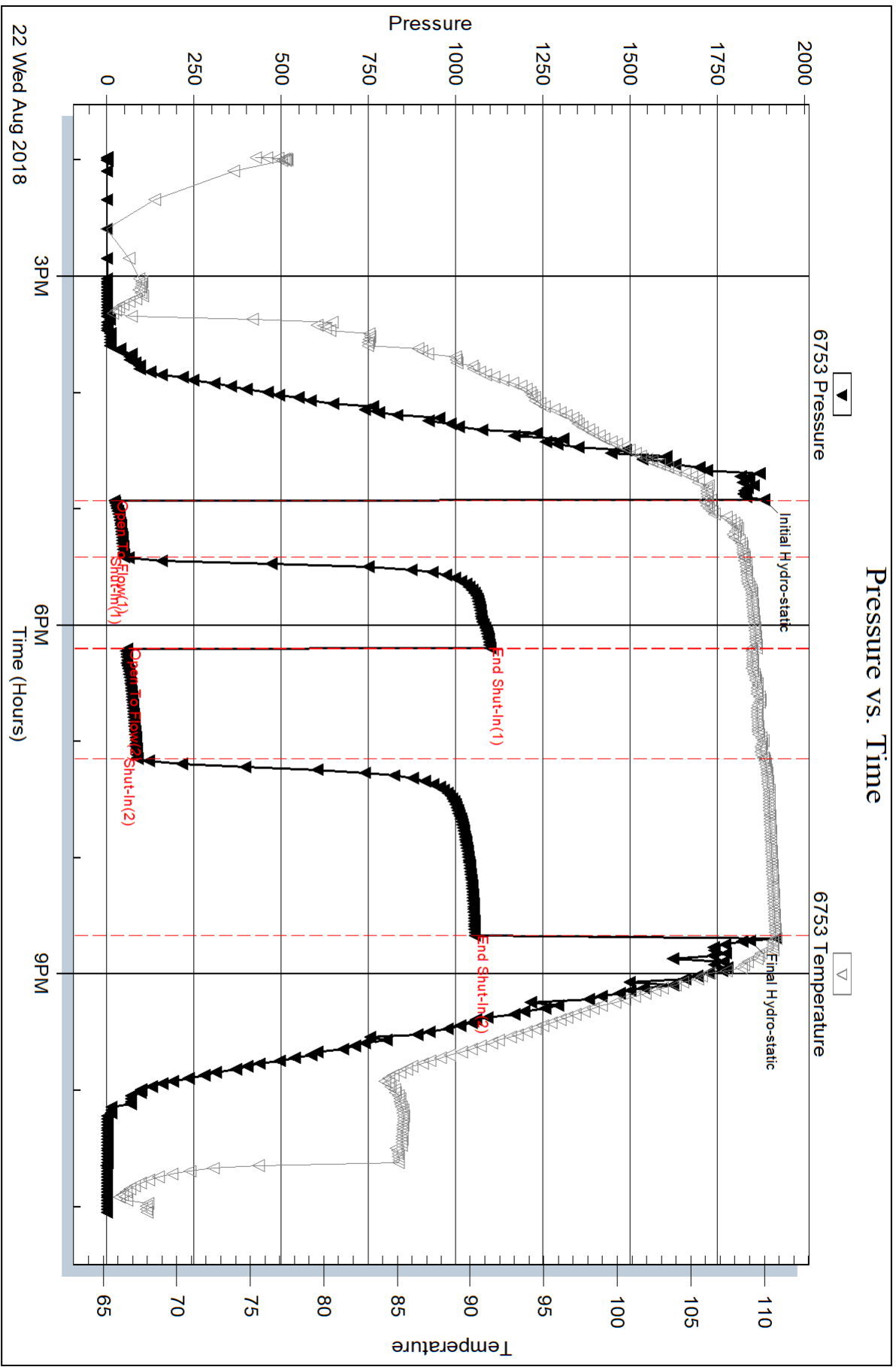
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .22@66deg



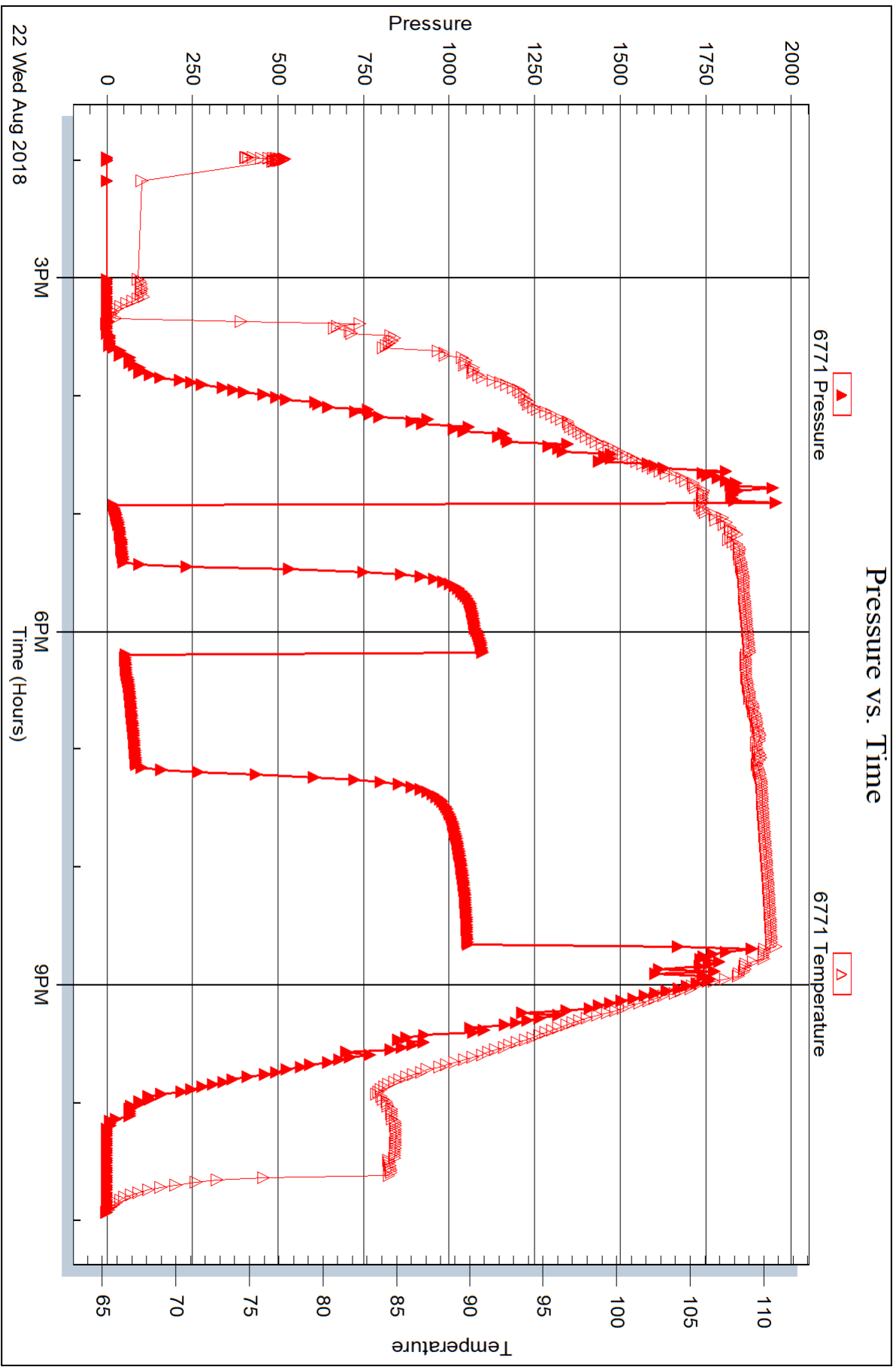
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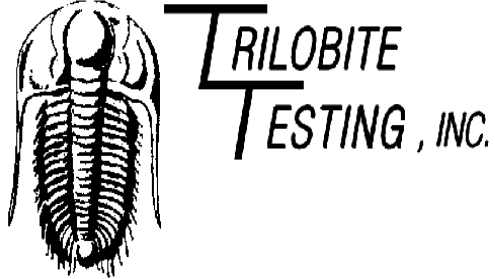
Inside

Cobalt Energy, LLC

Bonita Unit A #1-30

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Corey Baker

Bonita Unit A #1-30

30-6S-25W Graham,KS

Start Date: 2018.08.23 @ 07:28:16

End Date: 2018.08.23 @ 16:01:46

Job Ticket #: 63142 DST #: 4

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

Printed: 2018.08.24 @ 09:31:48



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy, LLC

30-6S-25W Graham, KS

PO Box 8037
Wichita, KS 67208

Bonita Unit A #1-30

ATTN: Corey Baker

Job Ticket: 63142

DST#: 4

Test Start: 2018.08.23 @ 07:28:16

GENERAL INFORMATION:

Formation: **LKC "K - L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:15:16

Time Test Ended: 16:01:46

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3846.00 ft (KB) To 3880.00 ft (KB) (TVD)

Reference Elevations: 2620.00 ft (KB)

Total Depth: 3880.00 ft (KB) (TVD)

2615.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753 Outside

Press@RunDepth: 25.44 psig @ 3847.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.23

End Date:

2018.08.23

Last Calib.:

2018.08.23

Start Time: 07:28:21

End Time:

16:01:46

Time On Btm:

2018.08.23 @ 11:14:46

Time Off Btm:

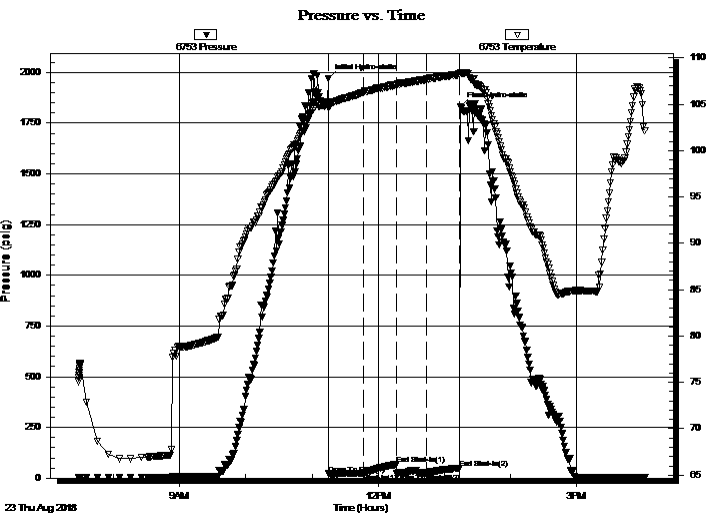
2018.08.23 @ 13:14:46

TEST COMMENT: 30- IF- Weak surface blow

30- IS- No blow

30- FF- No blow

30- FSI- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1967.89	105.00	Initial Hydro-static
1	20.20	104.66	Open To Flow (1)
32	22.32	106.28	Shut-In(1)
62	67.80	107.03	End Shut-In(1)
62	24.96	107.02	Open To Flow (2)
90	25.44	107.67	Shut-In(2)
119	49.63	108.19	End Shut-In(2)
120	1832.64	108.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	M	0.07

* 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

30-6S-25W Graham,KS

PO Box 8037
Wichita, KS 67208

Bonita Unit A #1-30

Job Ticket: 63142

DST#: 4

ATTN: Corey Baker

Test Start: 2018.08.23 @ 07:28:16

Tool Information

Drill Pipe:	Length: 3648.00 ft	Diameter: 3.82 inches	Volume: 51.71 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: 205.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 64000.00 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:	3846.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	57.00 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			3824.00	
Shut In Tool	5.00			3829.00	
Hydraulic tool	5.00			3834.00	
Safety Joint	3.00			3837.00	
Packer	5.00			3842.00	23.00 Bottom Of Top Packer
Packer	4.00			3846.00	
Stubb	1.00			3847.00	
Recorder	0.00	6771	Inside	3847.00	
Recorder	0.00	6753	Outside	3847.00	
Perforations	30.00			3877.00	
Bullnose	3.00			3880.00	34.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

30-6S-25W Graham,KS

PO Box 8037
Wichita, KS 67208

Bonita Unit A #1-30

Job Ticket: 63142

DST#: 4

ATTN: Corey Baker

Test Start: 2018.08.23 @ 07:28:16

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: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

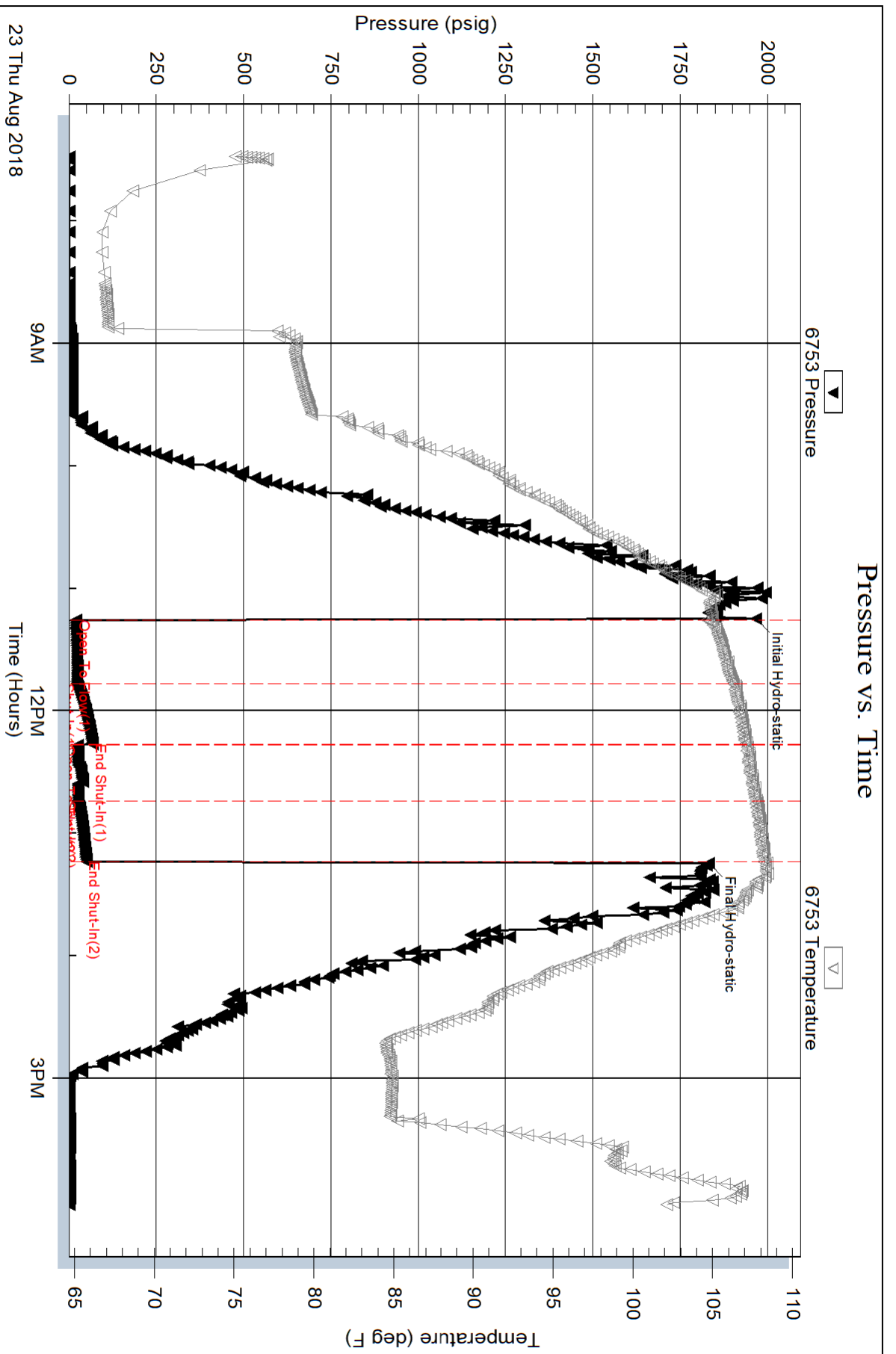
Num Gas Bombs: 0

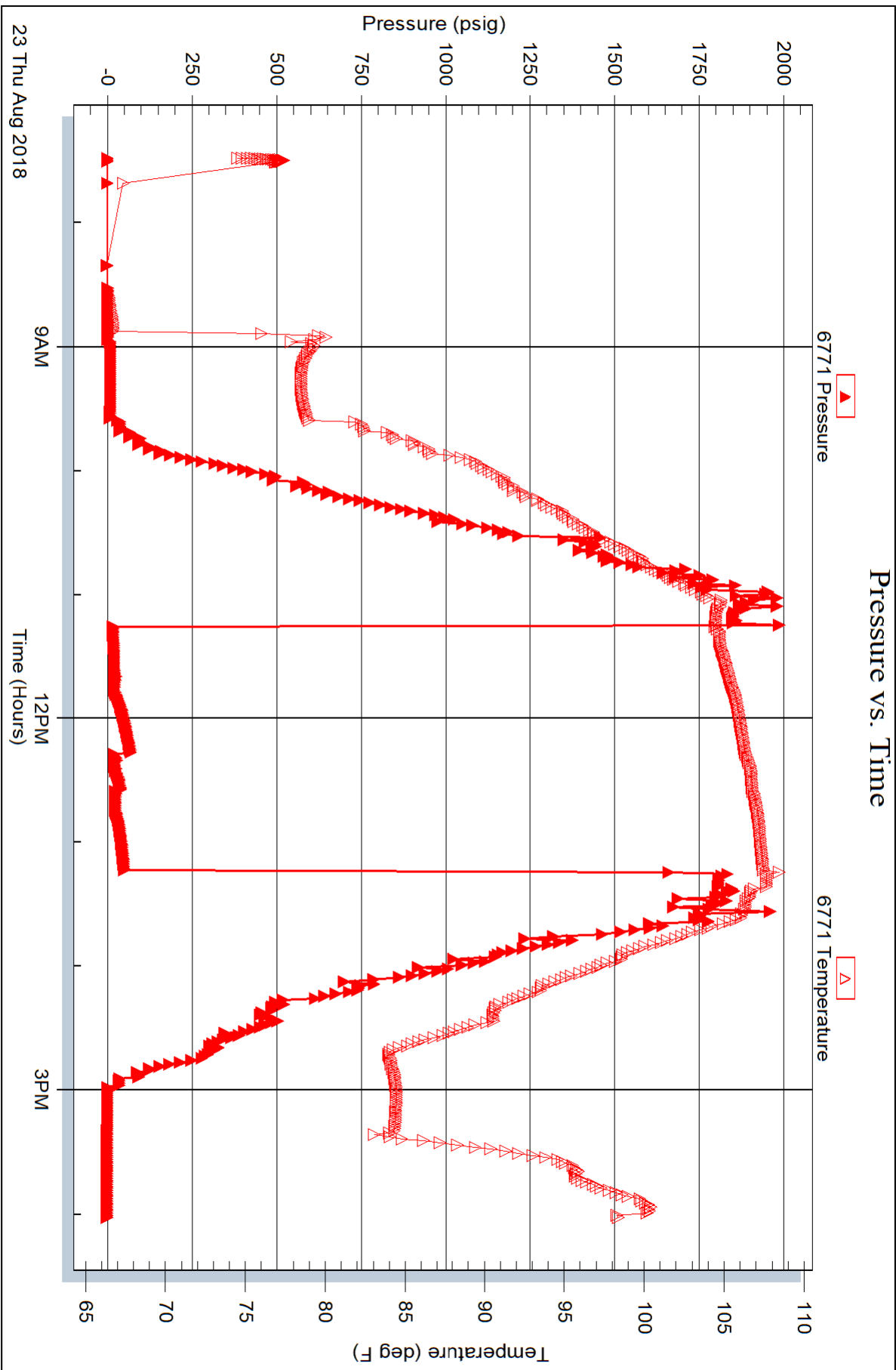
Serial #:

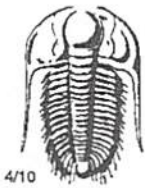
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63139

Well Name & No. Bonita Unit A 1-30 Test No. 1 Date 8/21/18
 Company Cobalt Energy, LLC Elevation 2620 KB 2615 GL
 Address _____
 Co. Rep / Geo. Carey Baker Rig Murfin #24
 Location: Sec. 30 Twp. 6 S Rge. 25 W Co. Graham State KS

Interval Tested 3706-3732 Zone Tested LKC "C"
 Anchor Length 26' Drill Pipe Run 3493 Mud Wt. 8.9
 Top Packer Depth 3701 Drill Collars Run 205 Vis 50
 Bottom Packer Depth 3706 Wt. Pipe Run _____ WL 6.0
 Total Depth 3732 Chlorides 900 ppm System LCM 2#

Blow Description IF - slowly built to 1 1/4"
ISF - No flow
FF - 1/4" blow
FST - No flow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>OCM</u>		<u>10</u>		<u>90</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30' BHT 110° Gravity 30 API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1851 Test 1050 T-On Location 8/20 2150
 (B) First Initial Flow 18 Jars _____ T-Started 2209
 (C) First Final Flow 25 Safety Joint 75 T-Open 0708
 (D) Initial Shut-In 688 Circ Sub _____ T-Pulled 0723
 (E) Second Initial Flow 28 Hourly Standby 2h 160 T-Out 1007
 (F) Second Final Flow 32 Mileage 182 RT 182 Comments EMI Test
 (G) Final Shut-In 698 Sampler _____
 (H) Final Hydrostatic 1816 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

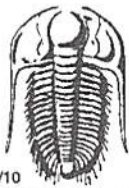
Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 90

Sub Total 1467

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1467
 MP/DST Disc't _____

Approved By _____

Our Representative
Brannan Lonsdale



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63140

Well Name & No. Bonita Unit A 1-30 Test No. 2 Date 8/21/18
 Company Cohold Energy, LLC Elevation 2620 KB 2615 GL
 Address _____
 Co. Rep / Geo. Carey Baker Rig Murfin 24
 Location: Sec. 30 Twp. 6 S Rge. 25 W Co. Graham State KS

Interval Tested 3730-3790 Zone Tested LKC "D-G"
 Anchor Length 60' Drill Pipe Run 3524 Mud Wt. 9.0
 Top Packer Depth 3725 Drill Collars Run 205 Vis 60
 Bottom Packer Depth 3730 Wt. Pipe Run _____ WL 6.0
 Total Depth 3790 Chlorides 1,200 ppm System LCM 2#

Blow Description IF-BOB 11 mins, Built to 24 3/4"
ISI - No Flow
FF-BOB 21 mins, Built to 27"
FSE - No Flow

Rec	Feet of	%gas	%oil	%water	%mud
<u>521</u>	<u>MW</u>			<u>65</u>	<u>35</u>
<u>15</u>	<u>CO</u>				
_____	_____				
_____	_____				
_____	_____				

Rec Total 536' BHT 113° Gravity 35 API RW .13 @ 62 °F Chlorides 60,000 ppm

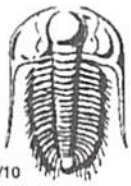
- (A) Initial Hydrostatic 1871 Test 1050
 - (B) First Initial Flow 39 Jars _____
 - (C) First Final Flow 163 Safety Joint 75
 - (D) Initial Shut-In 922 Circ Sub _____
 - (E) Second Initial Flow 176 Hourly Standby _____
 - (F) Second Final Flow 263 Mileage 182 RT 182
 - (G) Final Shut-In 935 Sampler _____
 - (H) Final Hydrostatic 1799 Straddle _____
 - Initial Open 30 Shale Packer _____
 - Initial Shut-In 45 Extra Packer _____
 - Final Flow 60 Extra Recorder _____
 - Final Shut-In 90 Day Standby _____
 - Accessibility _____
- Sub Total 1307

T-On Location 1907
 T-Started 1930
 T-Open 2201
 T-Pulled 8/22 0146
 T-Out 0439
 Comments EMI Tool
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1307
 MP/DST Disc't _____

Approved By _____

Our Representative

Brianan Lonsdale



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63141

Well Name & No. Bonita Unit A-130 Test No. 3 Date 8/22/18
 Company Cobalt Energy, LLC Elevation 2620 KB 2615 GL
 Address _____
 Co. Rep / Geo. Corey Baker Rig Murfin 24
 Location: Sec. 30 Twp. 6 S Rge. 25 W Co. Graham State KS

Interval Tested 3708-3850 Zone Tested LKC "H-J"
 Anchor Length 62' Drill Pipe Run 3586 Mud Wt. 9.1
 Top Packer Depth 3783 Drill Collars Run 205 Vis 44
 Bottom Packer Depth 3708 Wt. Pipe Run _____ WL 6.4
 Total Depth 3850 Chlorides 3400 ppm System LCM 2nd
 Blow Description IF - Slowly built to 4"
PSI - No blow
PF - Slowly built to 4"
FSI - No blow

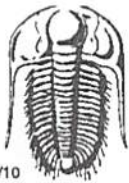
Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>WM</u>			<u>10</u>	<u>90</u>
<u>30</u>	<u>OSM</u>				
<u>1</u>	<u>CO</u>				
_____	_____				
_____	_____				

Rec Total 151 BHT 111° Gravity 35 API RW .22@ 66° F Chlorides 33,000 ppm
 (A) Initial Hydrostatic 1885 Test 1050 T-On Location 1338
 (B) First Initial Flow 22 Jars _____ T-Started 1358
 (C) First Final Flow 50 Safety Joint 75 T-Open 1655
 (D) Initial Shut-In 1100 Circ Sub _____ T-Pulled 2076
 (E) Second Initial Flow 59 Hourly Standby _____ T-Out 2303
 (F) Second Final Flow 88 Mileage 182 RT 182 Comments EM Tool
 (G) Final Shut-In 1056 Sampler _____
 (H) Final Hydrostatic 1845 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1307
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1307
 MP/DST Disc't _____

Approved By _____

Our Representative

Brannan Lonsdale



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63142**

Well Name & No. Benita Unit A 1-30 Test No. 4 Date 8/23/18
 Company Cobalt Energy, LLC Elevation 2620 KB 2615 GL
 Address _____
 Co. Rep / Geo. Corey Baker Rig Murfin 24
 Location: Sec. 30 Twp. 6 S Rge. 25 W Co. Graham State KS

Interval Tested 3846-3880 Zone Tested LKC "K+L"
 Anchor Length 34' Drill Pipe Run 3648 Mud Wt. 9.1
 Top Packer Depth 3841 Drill Collars Run 205 Vis 44
 Bottom Packer Depth 3846 Wt. Pipe Run _____ WL 6.4
 Total Depth 3880 Chlorides 1400 ppm System LCM 2#

Blow Description IF-Weak surface blow
ISI-No blow
FF-No blow
FSI-No blow

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

Rec Total 15' BHT 108° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1968</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0650</u>
(B) First Initial Flow <u>20</u>	<input type="checkbox"/> Jars _____	T-Started <u>0728</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1115</u>
(D) Initial Shut-In <u>68</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1315</u>
(E) Second Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Hourly Standby _____	T-Out <u>1601</u>
(F) Second Final Flow <u>25</u>	<input checked="" type="checkbox"/> Mileage <u>182 RT</u> 182	Comments _____
(G) Final Shut-In <u>50</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1833</u>	<input type="checkbox"/> Straddle _____	_____

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>80</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1307</u>
	Sub Total <u>1307</u>	MP/DST Disc't _____

Approved By _____

Our Representative
Braman Lonsdale