



## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy**

PO Box 8037  
Wichita KS 67208

ATTN: Paul Gunzelman

**Marx A #1-24**

**24 6s 26w Sheridan,KS**

Start Date: 2014.01.06 @ 03:27:00

End Date: 2014.01.06 @ 12:34:30

Job Ticket #: 55939                      DST #: 1

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

Printed: 2014.01.09 @ 10:27:53



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Cobalt Energy

**24 6s 26w Sheridan, KS**

PO Box 8037  
Wichita KS 67208

**Marx A #1-24**

Job Ticket: 55939

**DST#: 1**

ATTN: Paul Gunzelman

Test Start: 2014.01.06 @ 03:27:00

## GENERAL INFORMATION:

Formation: **LKC-A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:44:00

Time Test Ended: 12:34:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 61

**Interval: 3670.00 ft (KB) To 3729.00 ft (KB) (TVD)**

Reference Elevations: 2608.00 ft (KB)

Total Depth: 3729.00 ft (KB) (TVD)

2603.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8673**

**Inside**

Press@RunDepth: 114.99 psig @ 3671.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.06

End Date:

2014.01.06

Last Calib.:

2014.01.06

Start Time: 03:27:01

End Time:

12:34:30

Time On Btm:

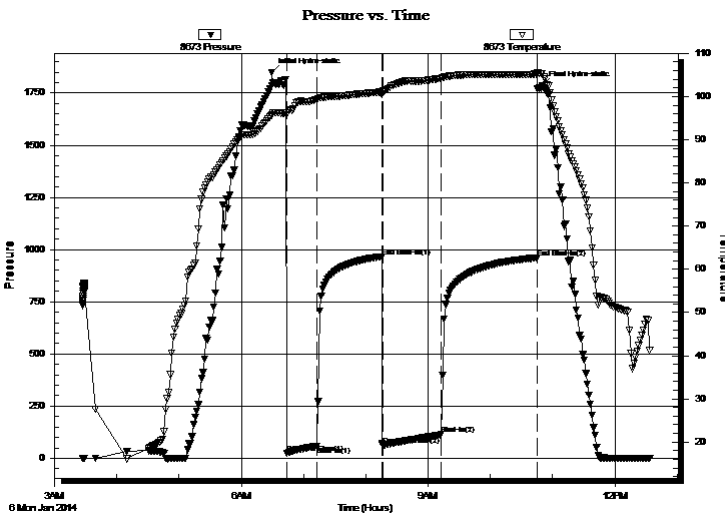
2014.01.06 @ 06:29:30

Time Off Btm:

2014.01.06 @ 10:50:00

**TEST COMMENT:** IF: Weak blow , Built to 3 in. over 30 mins.  
IS: No blow back over 60 mins.  
FF: Weak blow , Built to 3 in. over 60 mins.  
FS: No blow back over 90 mins.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1849.37	95.72	Initial Hydro-static
15	22.22	95.80	Open To Flow (1)
44	58.42	99.35	Shut-In(1)
106	966.54	101.02	End Shut-In(1)
107	61.83	100.96	Open To Flow (2)
163	114.99	104.21	Shut-In(2)
256	961.06	105.16	End Shut-In(2)
261	1786.71	105.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud-100%m	0.57
140.00	w cm-20%w 80%m	1.96
1.00	1 ft. free oil	0.01

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy

**24 6s 26w Sheridan,KS**

PO Box 8037  
Wichita KS 67208

**Marx A #1-24**

Job Ticket: 55939

**DST#: 1**

ATTN: Paul Gunzelman

Test Start: 2014.01.06 @ 03:27:00

## Tool Information

Drill Pipe:	Length: 3642.00 ft	Diameter: 3.80 inches	Volume: 51.09 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 51.24 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3670.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3647.00	
Hydraulic tool	5.00			3652.00	
Jars	5.00			3657.00	
Safety Joint	3.00			3660.00	
Packer	5.00			3665.00	28.00 Bottom Of Top Packer
Packer	5.00			3670.00	
Stubb	1.00			3671.00	
Recorder	0.00	8673	Inside	3671.00	
Recorder	0.00	8651	Outside	3671.00	
Perforations	21.00			3692.00	
change Over Sub	1.00			3693.00	
Drill Pipe	32.00			3725.00	
Change Over Sub	1.00			3726.00	
Bullnose	3.00			3729.00	59.00 Bottom Packers & Anchor

**Total Tool Length: 87.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Cobalt Energy

**24 6s 26w Sheridan,KS**

PO Box 8037  
Wichita KS 67208

**Marx A #1-24**

Job Ticket: 55939

**DST#: 1**

ATTN: Paul Gunzelman

Test Start: 2014.01.06 @ 03:27:00

### 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: 79.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mud-100%m	0.568
140.00	w cm-20%w 80%m	1.964
1.00	1 ft. free oil	0.014

Total Length: 201.00 ft      Total Volume: 2.546 bbl

Num Fluid Samples: 0

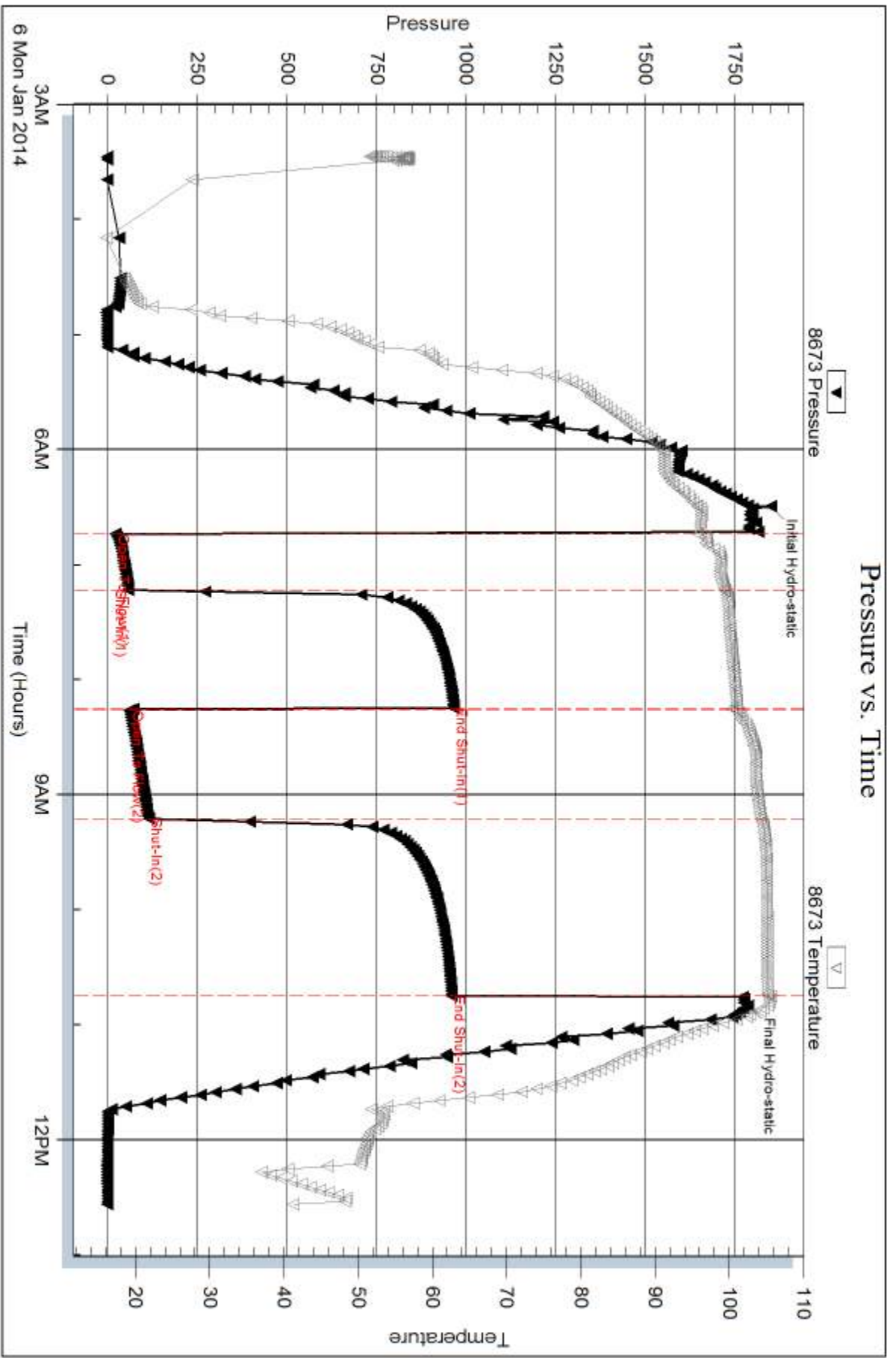
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

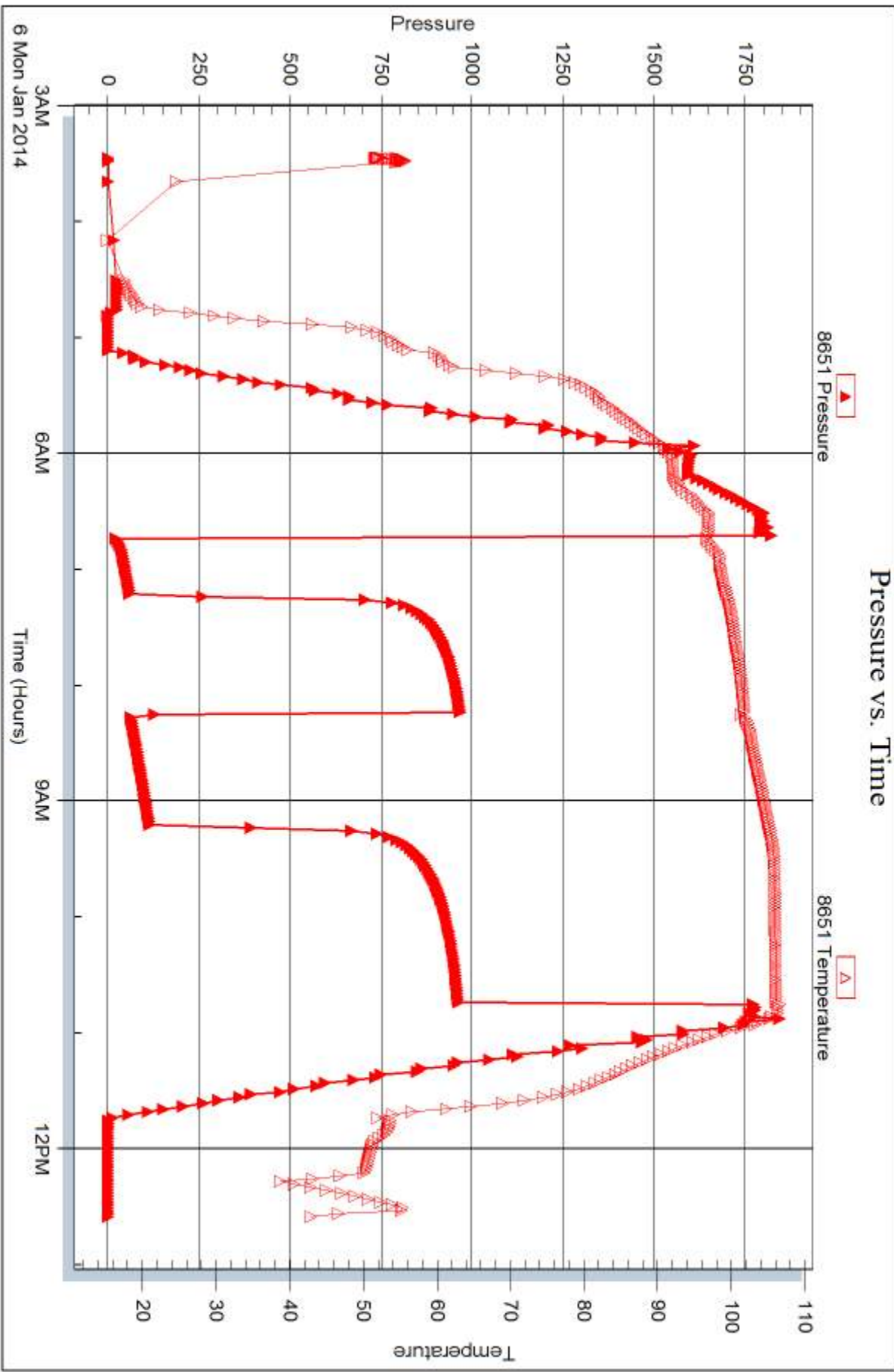


Serial #: 8651

Outside Cobalt Energy

Marx A #1-24

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy**

PO Box 8037  
Wichita KS 67208

ATTN: Paul Gunzelman

**Marx A #1-24**

**24 6s 26w Sheridan,KS**

Start Date: 2014.01.06 @ 21:05:00

End Date: 2014.01.07 @ 04:53:30

Job Ticket #: 55940                      DST #: 2

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

Printed: 2014.01.09 @ 10:27:25





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Cobalt Energy

**24 6s 26w Sheridan,KS**

PO Box 8037  
Wichita KS 67208

**Marx A #1-24**

Job Ticket: 55940

**DST#: 2**

ATTN: Paul Gunzelman

Test Start: 2014.01.06 @ 21:05:00

## GENERAL INFORMATION:

Formation: **LKC E-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:51:30

Time Test Ended: 04:53:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

**Interval: 3730.00 ft (KB) To 3776.00 ft (KB) (TVD)**

Reference Elevations: 2608.00 ft (KB)

Total Depth: 3776.00 ft (KB) (TVD)

2603.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8673**

**Inside**

Press@RunDepth: 33.78 psig @ 3731.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.06

End Date:

2014.01.07

Last Calib.:

2014.01.07

Start Time: 21:05:01

End Time:

04:53:30

Time On Btm:

2014.01.06 @ 22:40:00

Time Off Btm:

2014.01.07 @ 02:58:00

## TEST COMMENT:

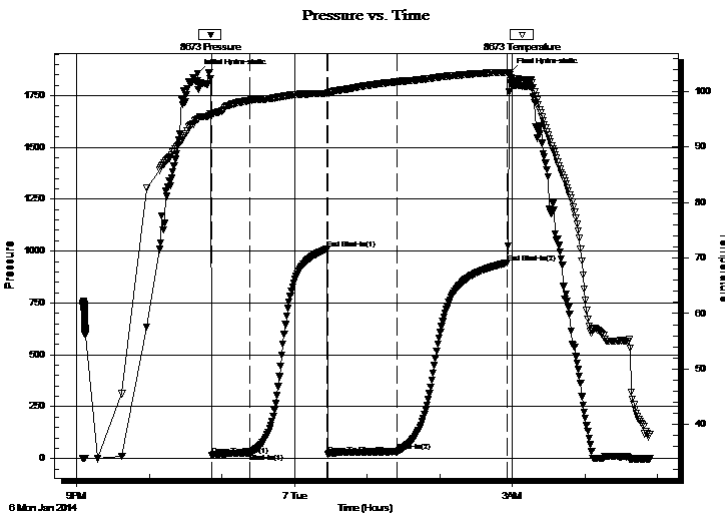
IF: Weak blow Built to 3 in. over 30 mins.

IS: No blow back over 60 mins.

FF: Weak blow, Built to 3 in. over 30 mins. Started to die. Died to 1 in. over 60 mins.

FS: No blow back over 90 mins.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1856.40	95.01	Initial Hydro-static
12	16.72	95.77	Open To Flow (1)
44	27.59	98.42	Shut-In(1)
107	1009.23	99.66	End Shut-In(1)
108	20.98	99.77	Open To Flow (2)
165	33.78	101.74	Shut-In(2)
256	943.97	103.45	End Shut-In(2)
258	1861.09	103.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	vsw cmo-10%w 15%m75%o	0.43

## Gas Rates

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

\* Recovery from multiple tests



TRILOBITE TESTING, INC

# DRILL STEM TEST REPORT

Cobalt Energy  
PO Box 8037  
Wichita KS 67208  
ATTN: Paul Gunzelman

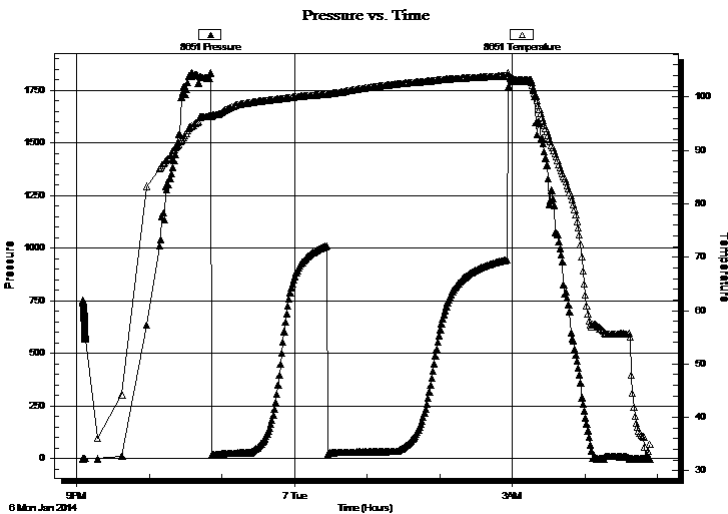
**24 6s 26w Sheridan, KS**  
**Marx A #1-24**  
Job Ticket: 55940 **DST#: 2**  
Test Start: 2014.01.06 @ 21:05:00

## GENERAL INFORMATION:

Formation: **LKC E-G**  
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 22:51:30 Tester: Chuck Kreutzer Jr.  
Time Test Ended: 04:53:30 Unit No: 61  
**Interval: 3730.00 ft (KB) To 3776.00 ft (KB) (TVD)** Reference Elevations: 2608.00 ft (KB)  
Total Depth: 3776.00 ft (KB) (TVD) 2603.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

**Serial #: 8651** Outside  
Press@RunDepth: psig @ 3731.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.01.06 End Date: 2014.01.07 Last Calib.: 2014.01.07  
Start Time: 21:05:01 End Time: 04:53:30 Time On Btm:  
Time Off Btm:

TEST COMMENT: IF: Weak blow Built to 3 in. over 30 mins.  
IS: No blow back over 60 mins.  
FF: Weak blow , Built to 3 in. over 30 mins. Started to die. Died to 1 in. over 60 mins.  
FS: No blow back over 90 mins.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	vsw cmo-10%w 15%m75%o	0.43

\* 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

**24 6s 26w Sheridan,KS**

PO Box 8037  
Wichita KS 67208

**Marx A #1-24**

Job Ticket: 55940

**DST#: 2**

ATTN: Paul Gunzelman

Test Start: 2014.01.06 @ 21:05:00

## Tool Information

Drill Pipe:	Length: 3678.00 ft	Diameter: 3.80 inches	Volume: 51.59 bbl	Tool Weight:	2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	48000.00 lb
			<u>Total Volume: 51.74 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3730.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 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
Shut In Tool	5.00			3707.00	
Hydraulic tool	5.00			3712.00	
Jars	5.00			3717.00	
Safety Joint	3.00			3720.00	
Packer	5.00			3725.00	28.00 Bottom Of Top Packer
Packer	5.00			3730.00	
Stubb	1.00			3731.00	
Recorder	0.00	8673	Inside	3731.00	
Recorder	0.00	8651	Outside	3731.00	
Perforations	9.00			3740.00	
change Over Sub	1.00			3741.00	
Drill Pipe	31.00			3772.00	
Change Over Sub	1.00			3773.00	
Bullnose	3.00			3776.00	46.00 Bottom Packers & Anchor

**Total Tool Length: 74.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy

**24 6s 26w Sheridan,KS**

PO Box 8037  
Wichita KS 67208

**Marx A #1-24**

Job Ticket: 55940

**DST#: 2**

ATTN: Paul Gunzelman

Test Start: 2014.01.06 @ 21:05:00

## 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: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.48 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	vsw cmo-10%w 15%m75%o	0.428

Total Length: 50.00 ft      Total Volume: 0.428 bbl

Num Fluid Samples: 0

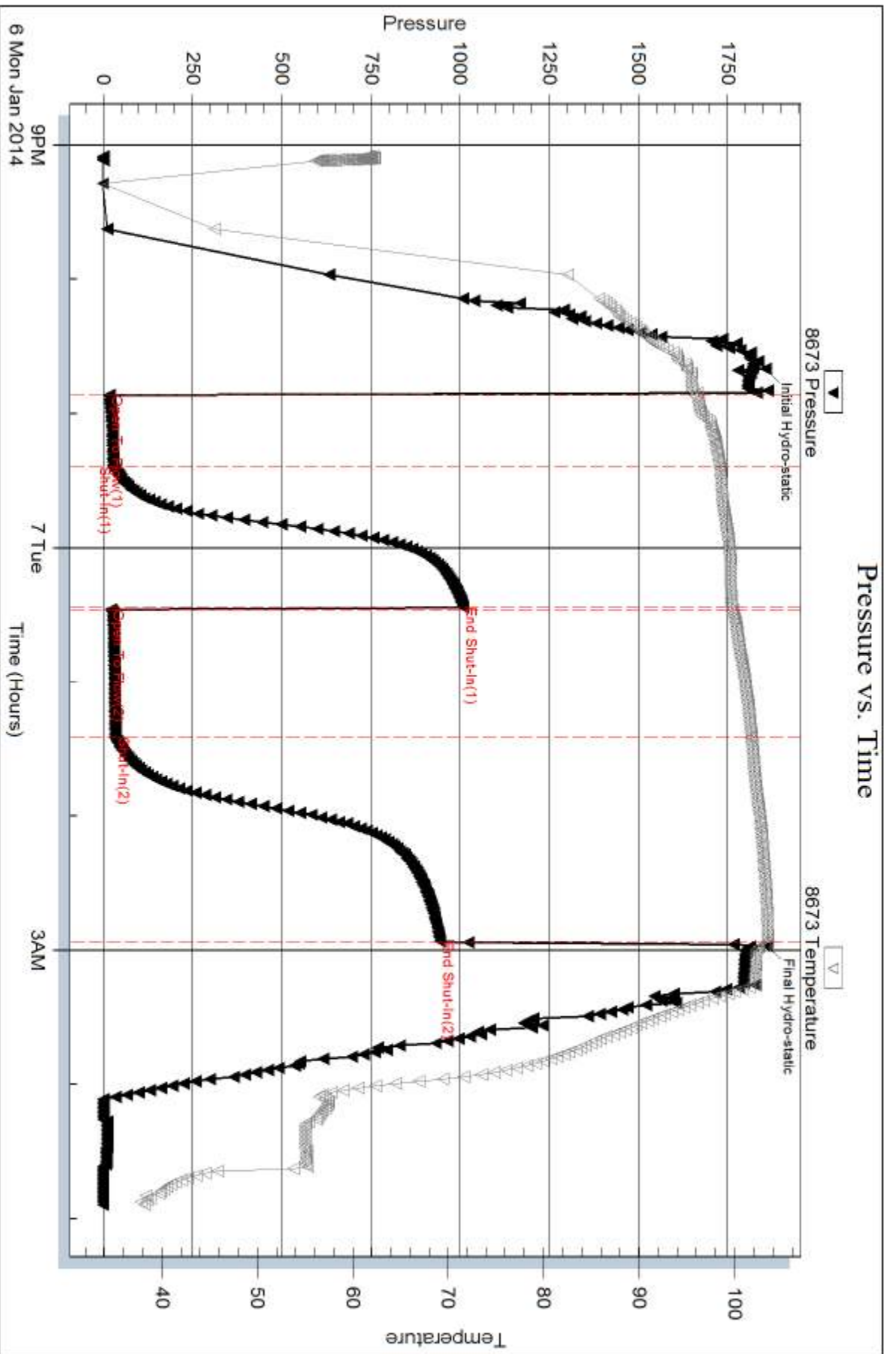
Num Gas Bombs: 0

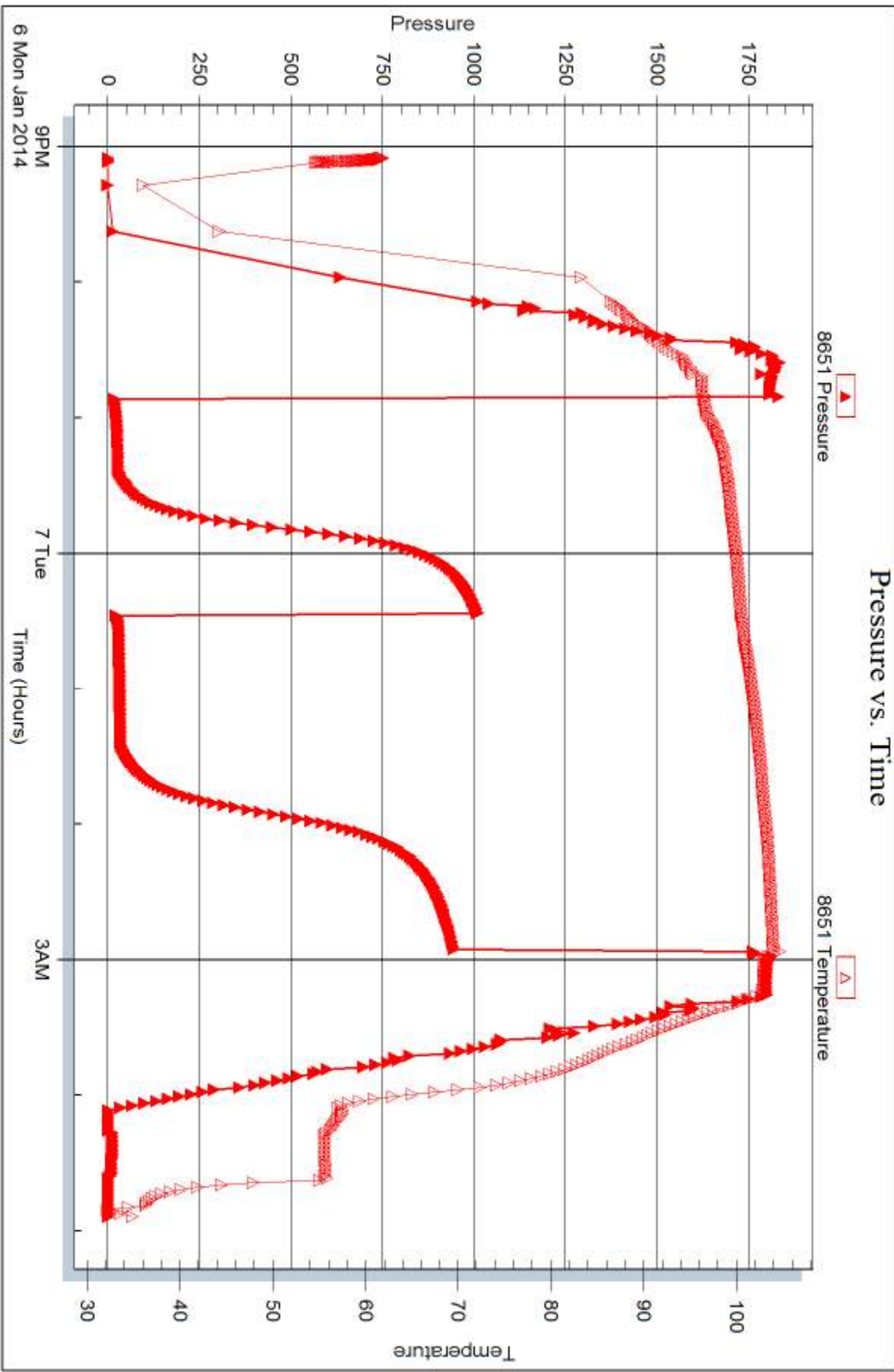
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy**

PO Box 8037  
Wichita KS 67208

ATTN: Paul Gunzelman

**Marx A #1-24**

**24 6s 26w Sheridan,KS**

Start Date: 2014.01.07 @ 14:25:00

End Date: 2014.01.07 @ 20:17:00

Job Ticket #: 55941                      DST #: 3

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

Printed: 2014.01.09 @ 10:26:27



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Cobalt Energy

**24 6s 26w Sheridan,KS**

PO Box 8037  
Wichita KS 67208

**Marx A #1-24**

Job Ticket: 55941

**DST#: 3**

ATTN: Paul Gunzelman

Test Start: 2014.01.07 @ 14:25:00

## GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:03:30

Time Test Ended: 20:17:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

**Interval: 3780.00 ft (KB) To 3848.00 ft (KB) (TVD)**

Reference Elevations: 2608.00 ft (KB)

Total Depth: 3848.00 ft (KB) (TVD)

2603.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8673**

**Inside**

Press@RunDepth: 26.00 psig @ 3781.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.07

End Date:

2014.01.07

Last Calib.:

2014.01.07

Start Time: 14:25:01

End Time:

20:17:00

Time On Btm:

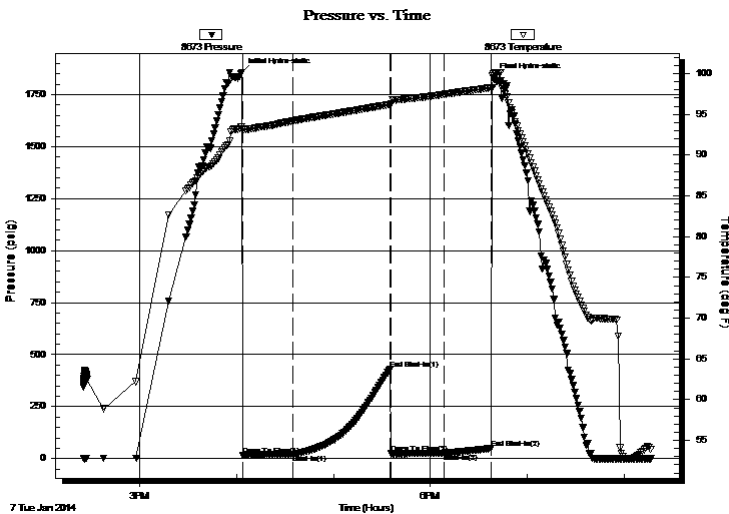
2014.01.07 @ 16:03:00

Time Off Btm:

2014.01.07 @ 18:39:00

**TEST COMMENT:** IF: Weak surface blow over 30 mins.  
IS: No blow back over 60 mins.  
FF: Weak surface blow over 30 mins.  
FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1857.20	93.53	Initial Hydro-static
1	17.25	93.11	Open To Flow (1)
32	20.87	94.20	Shut-In(1)
92	430.24	96.23	End Shut-In(1)
93	23.43	96.28	Open To Flow (2)
126	26.00	97.46	Shut-In(2)
155	49.71	98.28	End Shut-In(2)
156	1832.50	99.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	0cm- 20%o80%m	0.05

\* Recovery from multiple tests

## Gas Rates

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





# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

Cobalt Energy  
 PO Box 8037  
 Wichita KS 67208  
 ATTN: Paul Gunzelman

**24 6s 26w Sheridan, KS**  
**Marx A #1-24**  
 Job Ticket: 55941      **DST#: 3**  
 Test Start: 2014.01.07 @ 14:25:00

### GENERAL INFORMATION:

Formation: **LKC H-K**  
 Deviated: **No Whipstock:**                              **ft (KB)**  
 Time Tool Opened: 16:03:30  
 Time Test Ended: 20:17:00

Test Type: Conventional Bottom Hole (Reset)  
 Tester: Chuck Kreutzer Jr.  
 Unit No: 61

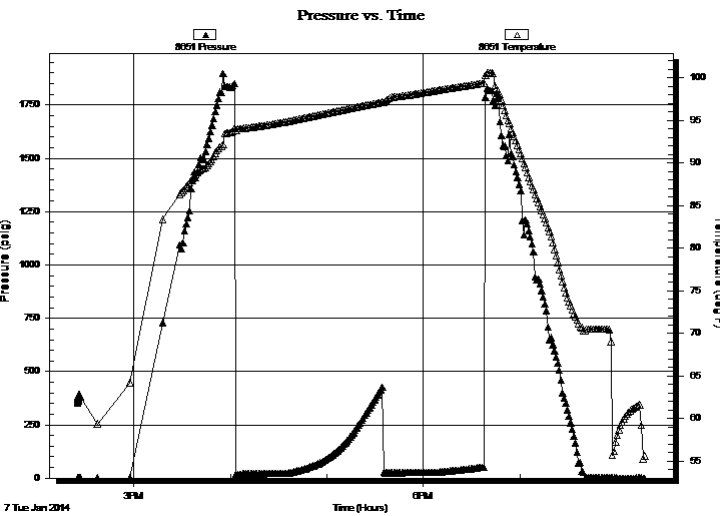
Interval: **3780.00 ft (KB) To 3848.00 ft (KB) (TVD)**  
 Total Depth: **3848.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Fair

Reference Elevations:      2608.00 ft (KB)  
     2603.00 ft (CF)  
 KB to GR/CF:                5.00 ft

**Serial #: 8651      Outside**  
 Press@RunDepth:                      psig @      3781.00 ft (KB)  
 Start Date:                              2014.01.07      End Date:                              2014.01.07  
 Start Time:                              14:25:01      End Time:                              20:17:30

Capacity:                                      8000.00 psig  
 Last Calib.:                                2014.01.07  
 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Weak surface blow over 30 mins.  
 IS: No blow back over 60 mins.  
 FF: Weak surface blow over 30 mins.  
 FS: No blow back



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	0cm- 20%o80%m	0.05

\* 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

**24 6s 26w Sheridan,KS**

PO Box 8037  
Wichita KS 67208

**Marx A #1-24**

Job Ticket: 55941

**DST#: 3**

ATTN: Paul Gunzelman

Test Start: 2014.01.07 @ 14:25:00

## Tool Information

Drill Pipe:	Length: 3740.00 ft	Diameter: 3.80 inches	Volume: 52.46 bbl	Tool Weight:	2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	56000.00 lb
			<u>Total Volume: 52.61 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3780.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	68.00 ft				
Tool Length:	96.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3757.00	
Hydraulic tool	5.00			3762.00	
Jars	5.00			3767.00	
Safety Joint	3.00			3770.00	
Packer	5.00			3775.00	28.00 Bottom Of Top Packer
Packer	5.00			3780.00	
Stubb	1.00			3781.00	
Recorder	0.00	8673	Inside	3781.00	
Recorder	0.00	8651	Outside	3781.00	
Perforations	21.00			3802.00	
change Over Sub	1.00			3803.00	
Drill Pipe	31.00			3834.00	
Change Over Sub	1.00			3835.00	
Perforations	10.00			3845.00	
Bullnose	3.00			3848.00	68.00 Bottom Packers & Anchor

**Total Tool Length: 96.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Cobalt Energy

**24 6s 26w Sheridan,KS**

PO Box 8037  
Wichita KS 67208

**Marx A #1-24**

Job Ticket: 55941

**DST#: 3**

ATTN: Paul Gunzelman

Test Start: 2014.01.07 @ 14:25:00

### 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: 59.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	0cm- 20%o80%m	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbf

Num Fluid Samples: 0

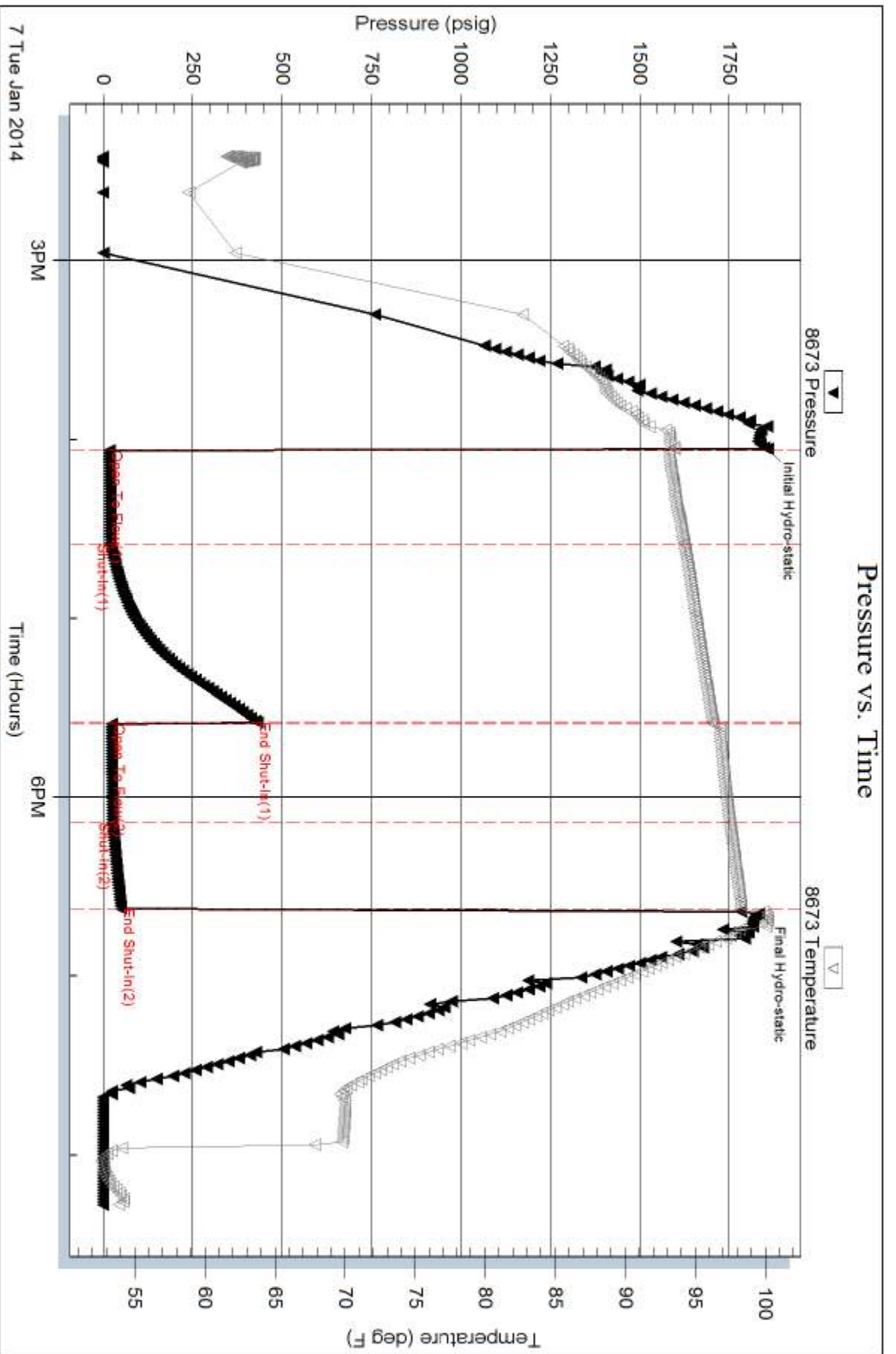
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

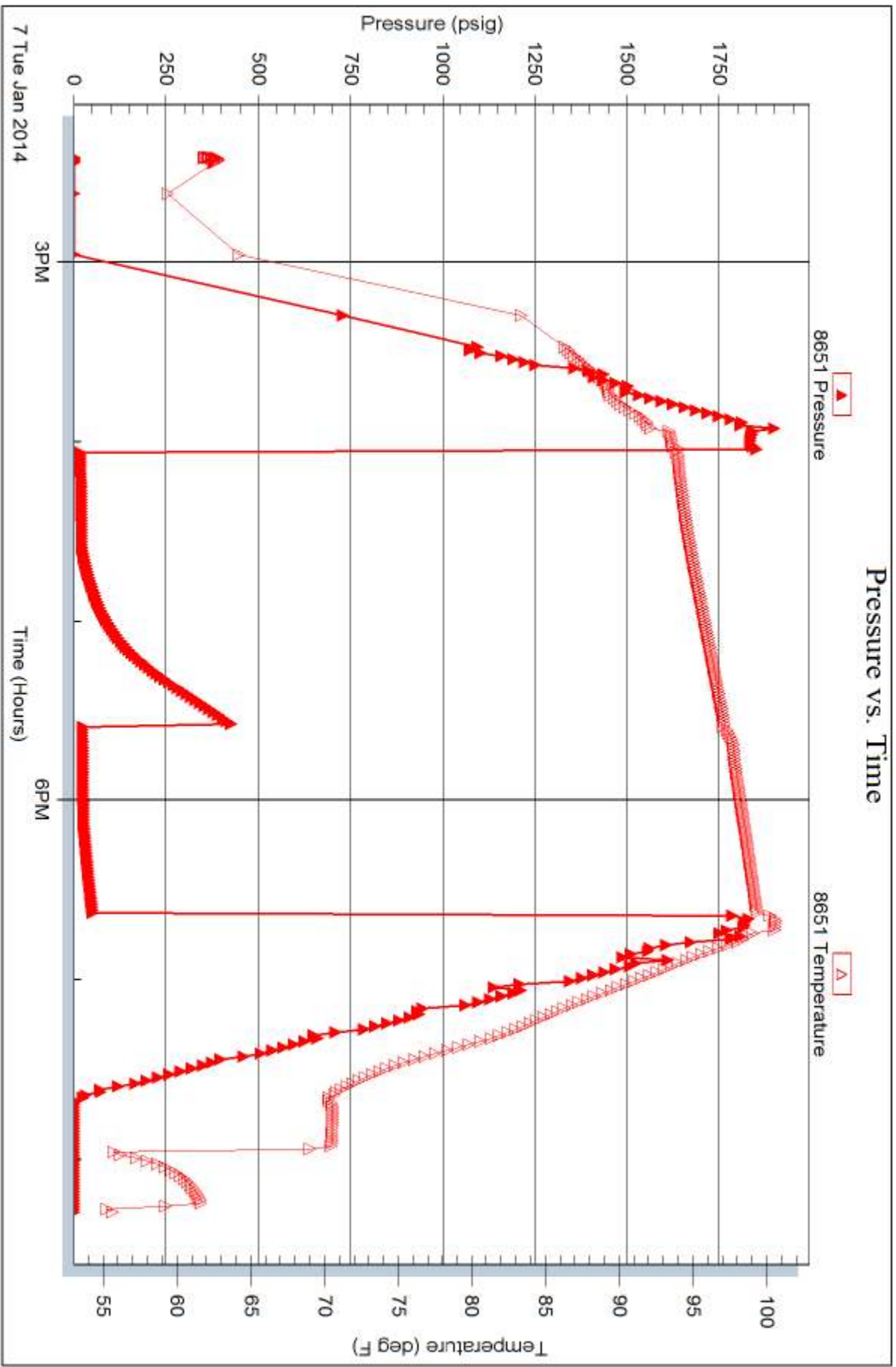


Serial #: 8651

Outside Cobalt Energy

Marx A #1-24

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55939**

Well Name & No. Marx 'A' # 1-24 Test No. 1 Date 1-6-14  
 Company Cobalt Energy Elevation 2608 KB 2603 GL  
 Address 115 S. Belmont # 12 P.O. Box 8037 Wichita Ks. 67208  
 Co. Rep / Geo. Paul Gunzelman Rig Murfin # 16  
 Location: Sec. 24 Twp. 6S Rge. 26W Co. Sheridan State Ks

Interval Tested 3670 3729 Zone Tested KC-A-D  
 Anchor Length 59 Drill Pipe Run 3642 Mud Wt. 8.7  
 Top Packer Depth 3665 Drill Collars Run 30 Vis 79  
 Bottom Packer Depth 3670 Wt. Pipe Run - 0 WL 4.8  
 Total Depth 3729 Chlorides 1000 ppm System LCM #2

Blow Description IF: Weak blow, Built to 3 in. over 30 mins.  
IS: No blow back over 60 mins.

FF: Weak blow, Built to 3 in. over 60 mins.  
FSS: No blow back over 90 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1 @ 2000</u>	<u>oil</u>	<u>100</u>			
<u>120</u>	<u>SSSS WCM</u>	<u>00</u>	<u>00</u>	<u>20</u>	<u>80</u>
<u>60</u>	<u>Mud</u>				<u>100</u>

Rec Total 201 BHT 104 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test 1150 T-On Location 2:20  
 (B) First Initial Flow \_\_\_\_\_  Jars 250 T-Started 3:07  
 (C) First Final Flow \_\_\_\_\_  Safety Joint 75 T-Open 6:44  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled 10:45  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 12:34

(F) Second Final Flow \_\_\_\_\_  Mileage 46x2 = 92 x 1.55 = 142.60 Comments Ry was froze up  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1617.60  
 Sub Total \_\_\_\_\_  
 Sub Total 1617.60

Approved By \_\_\_\_\_ Our Representative Chad King  
 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. 55940

Well Name & No. Marx 'A' # 1-24 Test No. 2 Date 1-6-14  
 Company Cobalt Energy Elevation 2608 KB 2603 GL  
 Address 115 S. Belmont # 12 P.O. Box 8087 Wichita Ks. 67208  
 Co. Rep / Geo. Paul Gurechman Rig muslin #16  
 Location: Sec. 24 Twp. 6S Rge. 26W Co. Sheridan State Ks

Interval Tested 3730 3776 Zone Tested LKC-E-6  
 Anchor Length 46 Drill Pipe Run 3678 Mud Wt. 9.0  
 Top Packer Depth 3725 Drill Collars Run 30 Vis 42  
 Bottom Packer Depth 3730 Wt. Pipe Run 0 WL 10.5  
 Total Depth 3776 Chlorides 1500 ppm System LCM 2H

Blow Description IF: Weak blow, Built to 3in. over 30mins.  
ISE: No blow back  
FF: Weak blow, Built to 3in over 30mins. Died to 1in. over 60mins.  
FSD: No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>vswcmo</u>		<u>75</u>	<u>10</u>	<u>15</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 50 BHT 102 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1856  Test 1150 T-On Location 20:50  
 (B) First Initial Flow 17  Jars 250 T-Started 21:05  
 (C) First Final Flow 28  Safety Joint 75 T-Open 22:51  
 (D) Initial Shut-In 1009  Circ Sub \_\_\_\_\_ T-Pulled 2:55  
 (E) Second Initial Flow 21  Hourly Standby \_\_\_\_\_ T-Out 4:53  
 (F) Second Final Flow 34  Mileage 46 x 2 = 92 x 1.55 = 142.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 944  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1861  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 1617.60  
 Final Flow 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 90 Sub Total 1617.60

Approved By \_\_\_\_\_ Our Representative Chuck Key  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55941**

Well Name & No. Marx 'A' #1-24 Test No. 3 Date 1-7-14  
 Company Cobalt Energy Elevation 2608 KB 2603 GL  
 Address 115 S. Belmont #12 P.O. Box 8037 Wichita, Ks. 67208  
 Co. Rep / Geo. Paul Gunzelman Rig MURPHY #16  
 Location: Sec. 24 Twp. 6S Rge. 26W Co. Sheridan State Ks

Interval Tested 3780 3848 Zone Tested LRC - H-K  
 Anchor Length 68 Drill Pipe Run 3740 Mud Wt. 9.1  
 Top Packer Depth 3775 Drill Collars Run 30 Vis 59  
 Bottom Packer Depth 3780 Wt. Pipe Run -0- WL 6.0  
 Total Depth 3848 Chlorides 1500 ppm System LCM 2#

Blow Description IF: Weak blow surface over 30 mins.

ISS: No blow back over 60 mins.

FF: Weak surface blow over 30 mins

FSI: No blow back over 30 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>OCM</u>		<u>20</u>		<u>80</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 98 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1857  Test 1150 T-On Location 1405  
 (B) First Initial Flow 17  Jars 250 T-Started 14:25  
 (C) First Final Flow 21  Safety Joint 75 T-Open 16:03  
 (D) Initial Shut-In 430  Circ Sub \_\_\_\_\_ T-Pulled 19:05  
 (E) Second Initial Flow 23  Hourly Standby \_\_\_\_\_ T-Out 20:17  
 (F) Second Final Flow 26  Mileage 45 x 2 = 92 x 1.55 = 142.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 50  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1833  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 30  
 Final Shut-In 36  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1617.60  
 Total 1617.60  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_

Our Representative Chad Meyer

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