



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1186089  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD
- Plug Back       Conv. to GSW     Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion    Permit #: \_\_\_\_\_
- SWD                  Permit #: \_\_\_\_\_
- ENHR                Permit #: \_\_\_\_\_
- GSW                 Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27     NAD83     WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1186089

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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## 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:

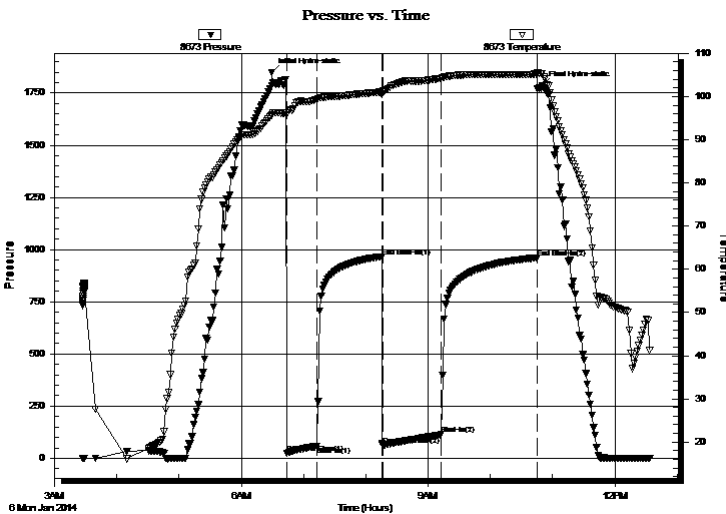
2014.01.06 @ 06:29:30

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

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: bbl

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

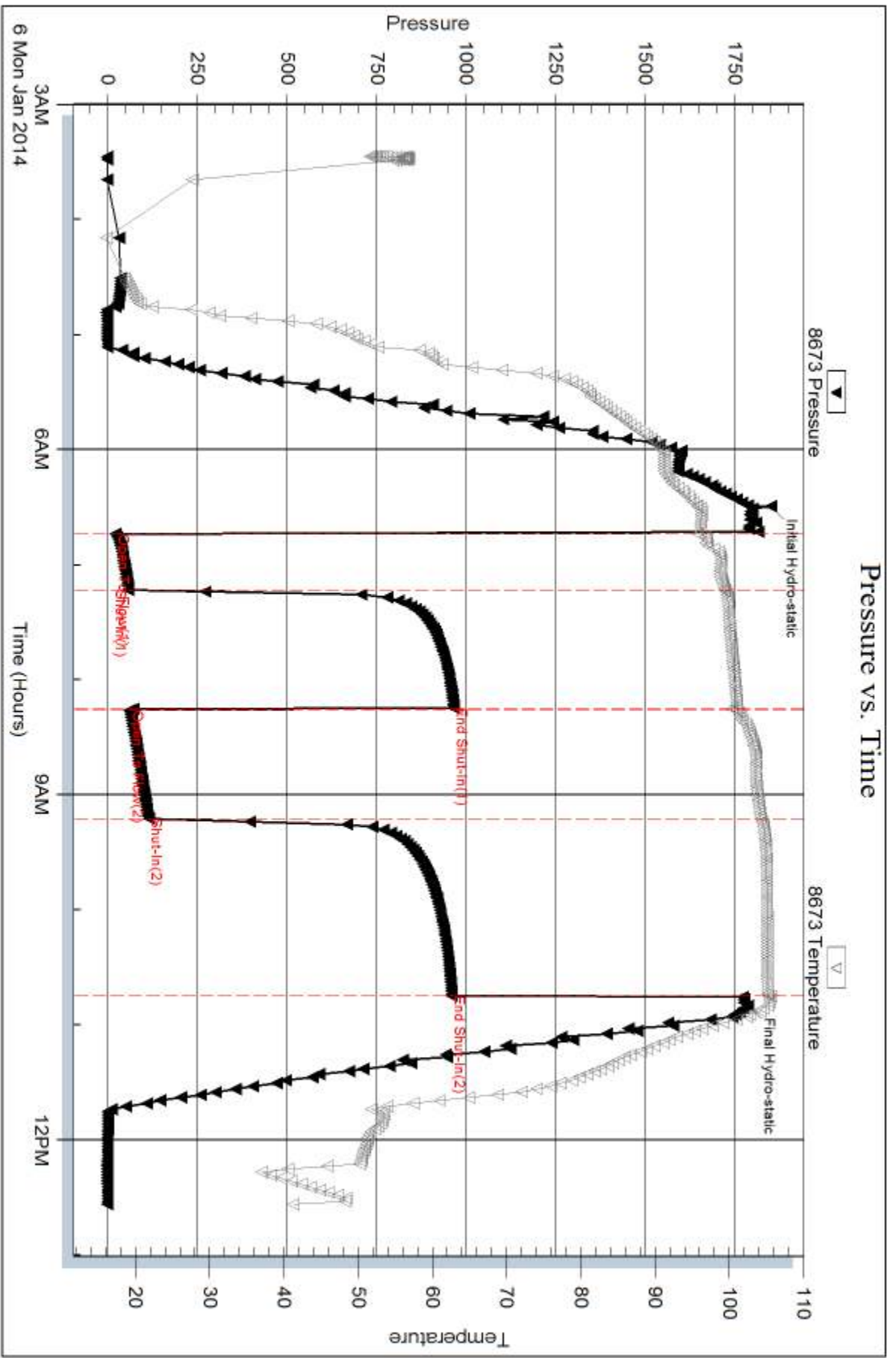
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



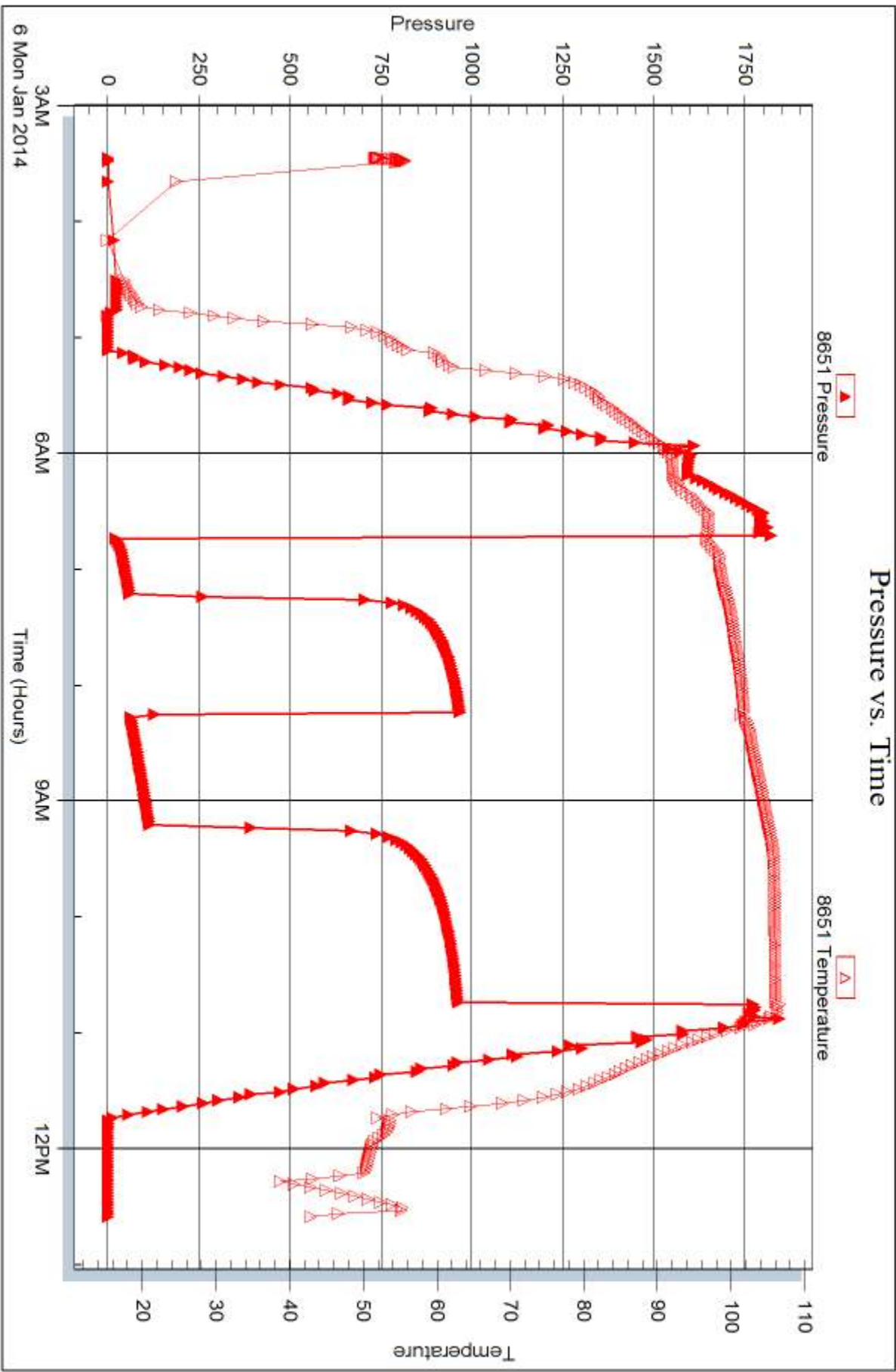


Serial #: 8651

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

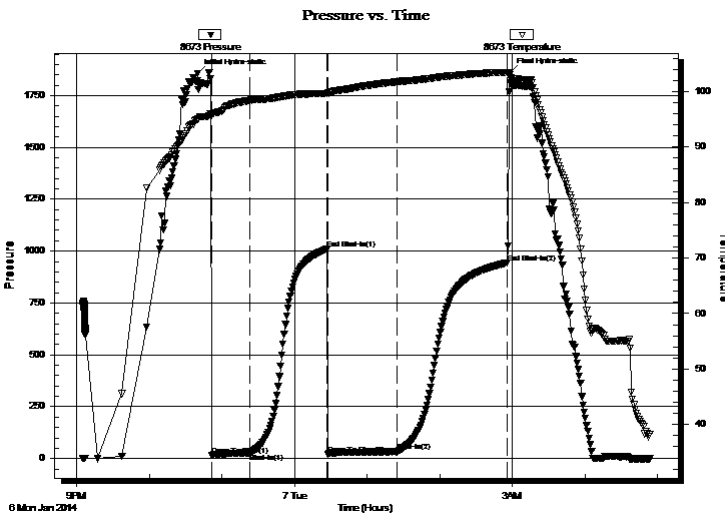
**TEST COMMENT:** IF: Weak blow Built to 3 in. over 30 mins.

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

\* 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

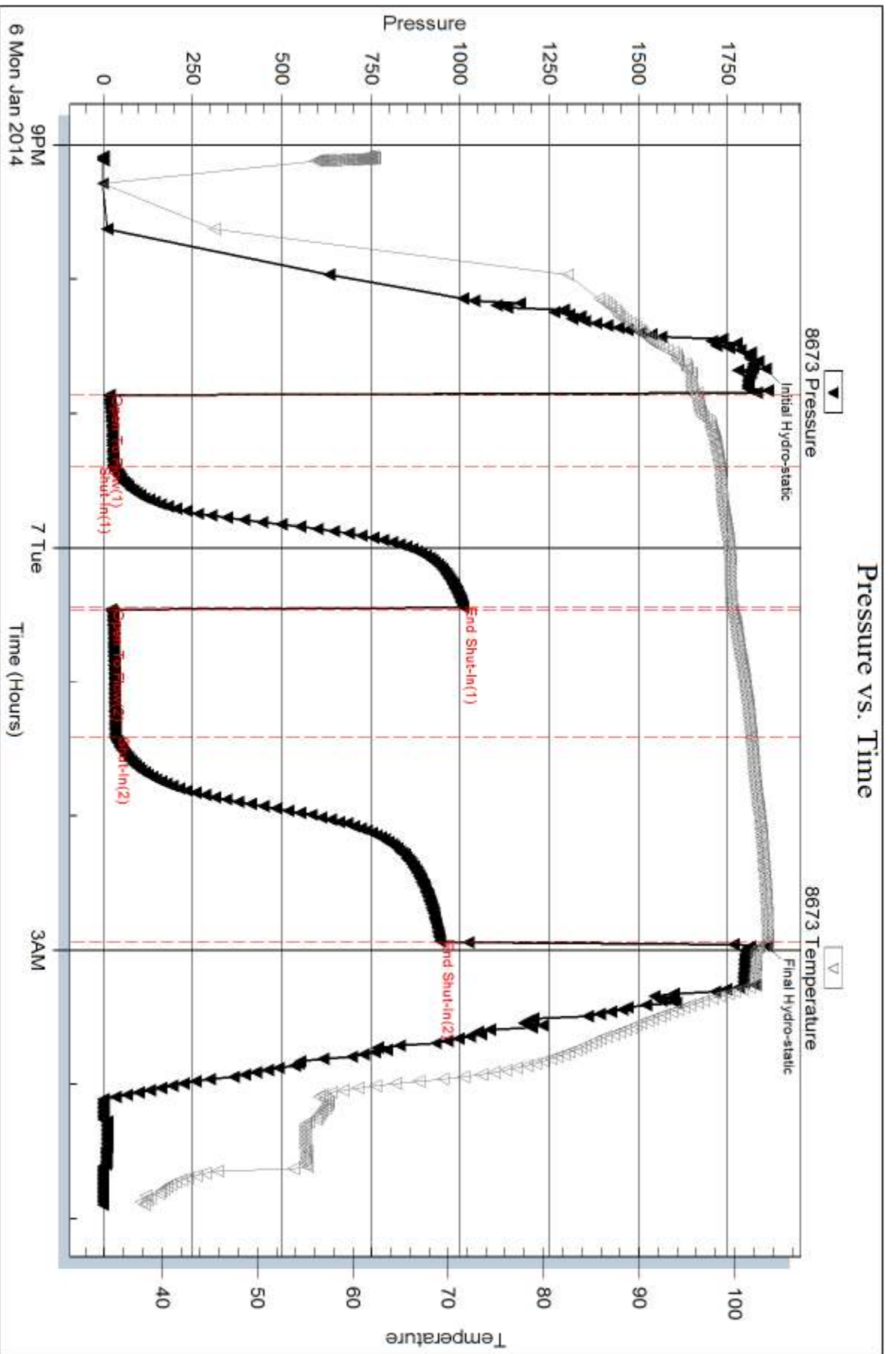
Num Gas Bombs: 0

Serial #:

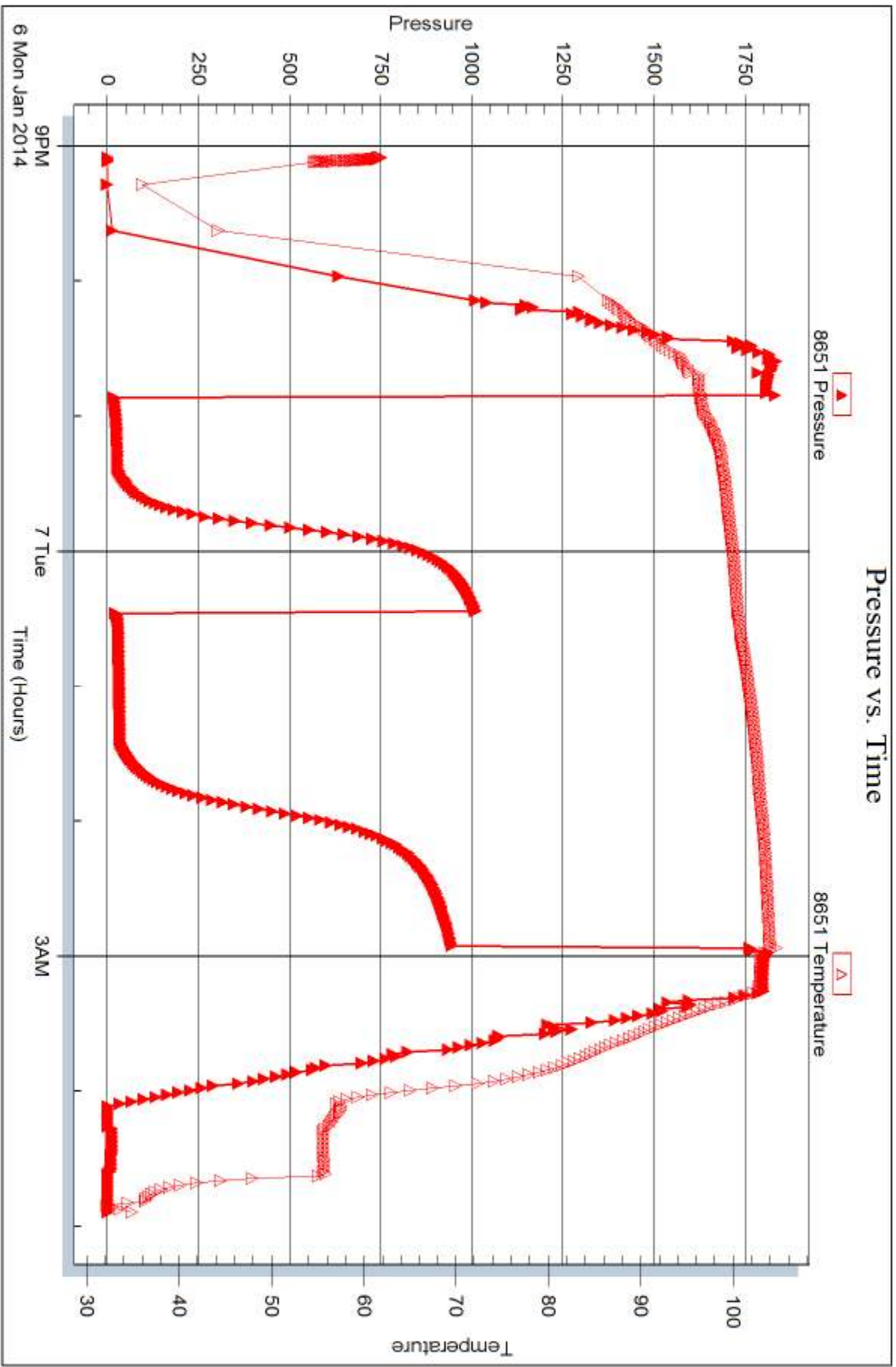
Laboratory Name:

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

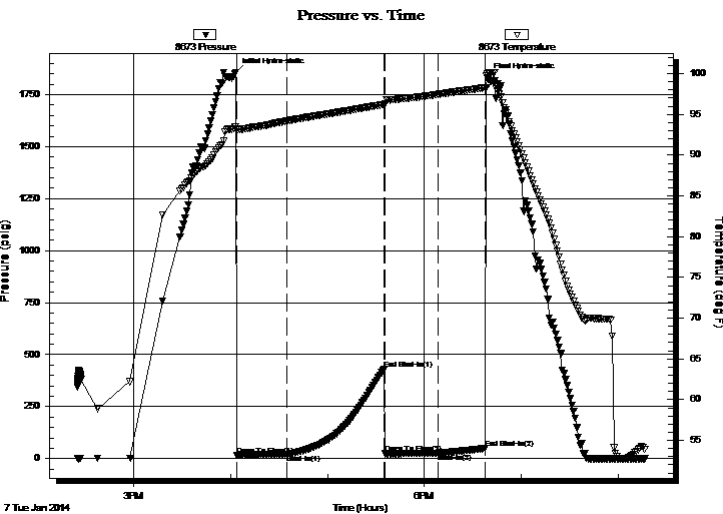
Time On Btm:

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

**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:

bbbl

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 bbl
10.00	0cm- 20%o80%m	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

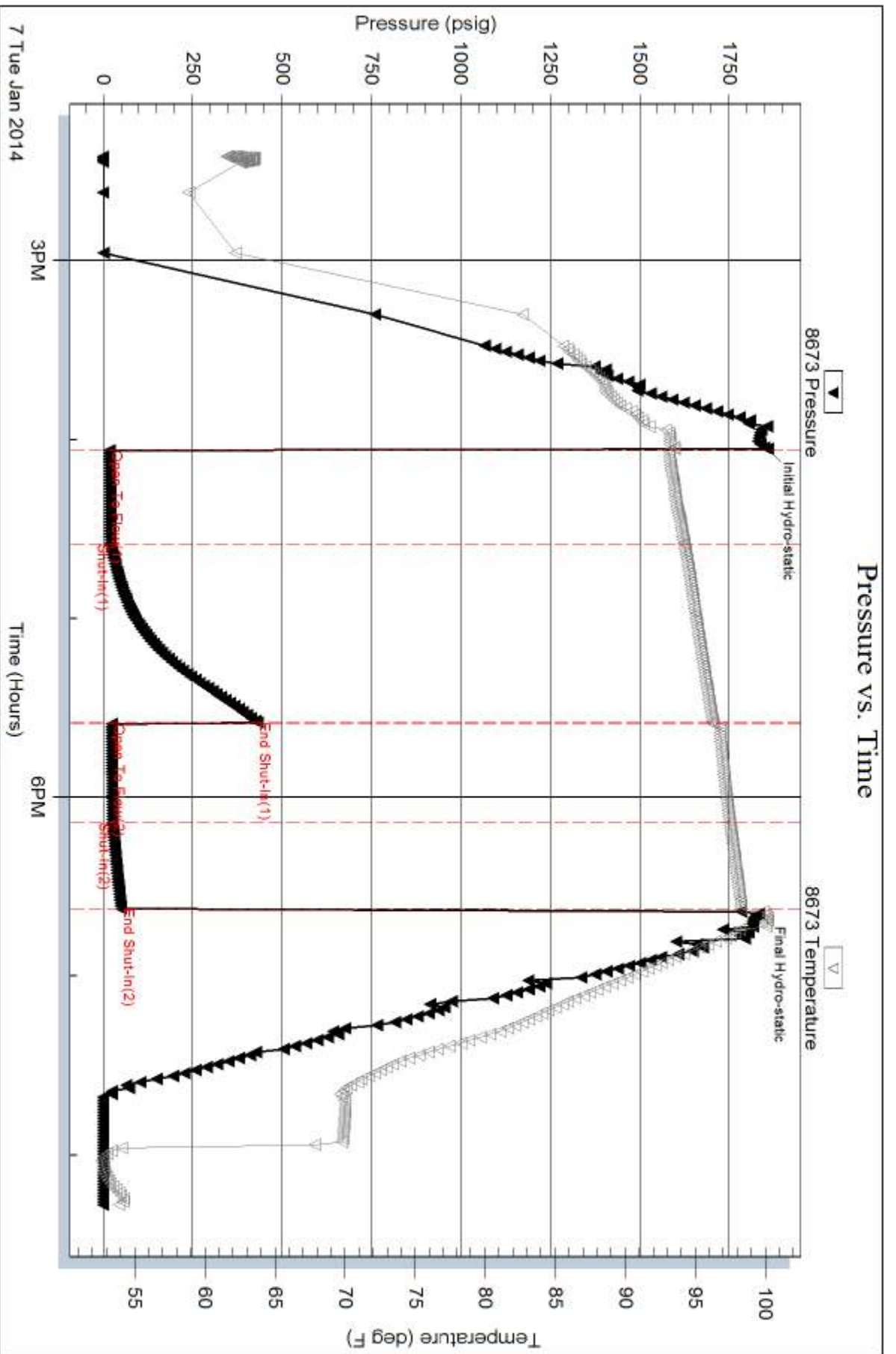
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

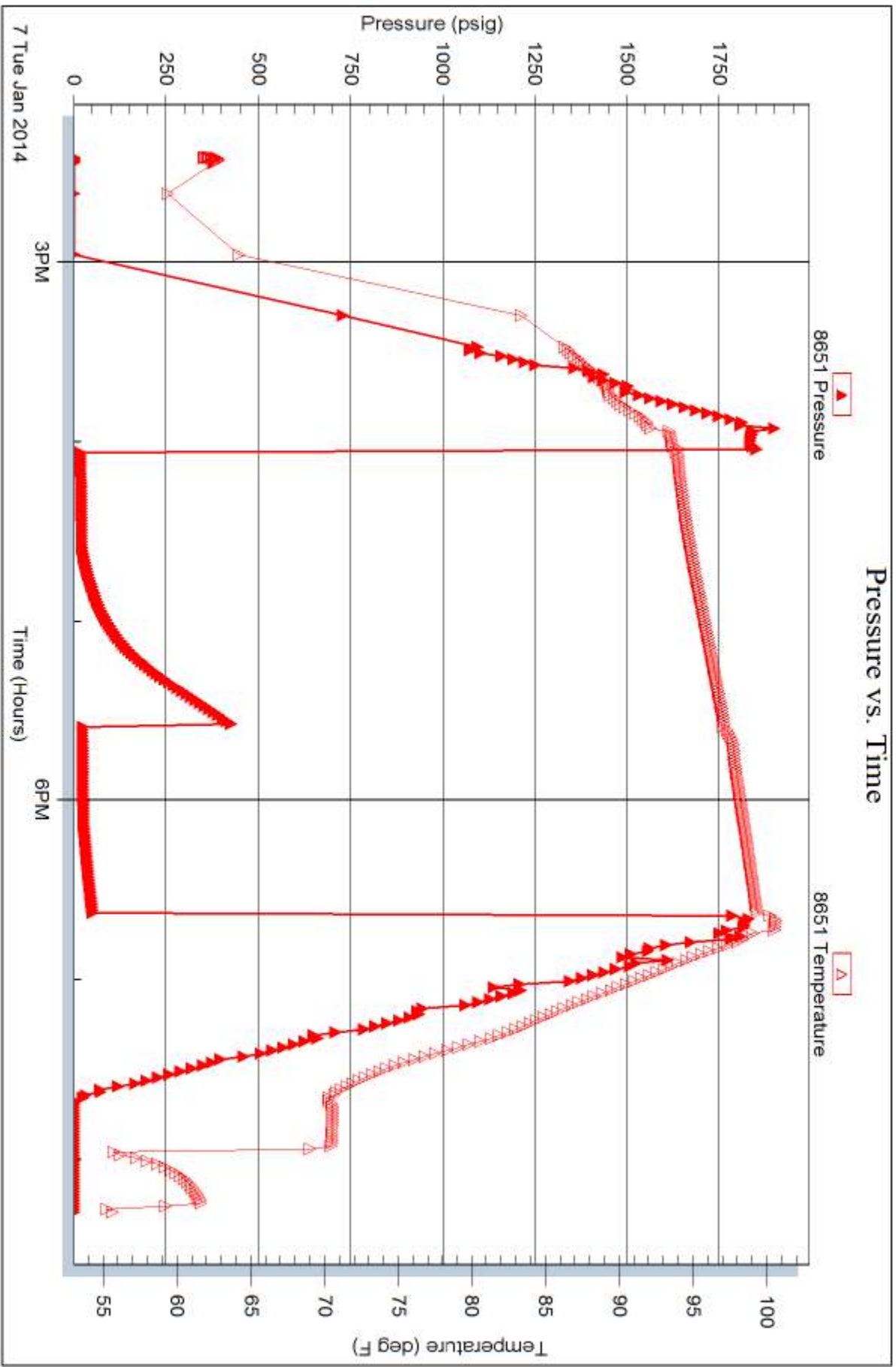


Serial #: 8651

Outside Cobalt Energy

Marx A #1-24

DST Test Number: 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 \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90

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 Guerschman Rig musina #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
50	vswcmo		75	10	15

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

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

Our Representative Chad Meyer

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.



## GEOLOGIST'S REPORT

OPERATOR **COBALT ENERGY, LLC**

LEASE **MARX 'A' # 1-24**

LOCATION **833 FSL & 763 FEL**

SEC. **24** TWSP **6S** RGE **26W**

COUNTY **SHERIDAN** STATE **KANSAS**

FIELD **ALLODIUM**

CONTRACTOR **Murfin Drilling Company** RIG NO. **16**

COMMENCED **2 January 2014** COMPLETED **8 January 2014**

MUD DISPLACED **3108** MUD TYPE **Chemical**

DRILLING TIME KEPT FROM **3400** TO **3933**

SAMPLES SAVED FROM **3400** TO **3933**

SAMPLES EXAMINED FROM **3400** TO **3933**

GEOLOGICAL SUPERVISION FROM **3383** TO **3933**

GEOLOGIST ON WELL **Paul Gunzelman**

FORMATION NAME	LOG		SAMPLE	
	TOP	DATUM	TOP	DATUM
Stone Corral	2168	+435	2169	+434
Base/ Anhydrite	2202	+401	2204	+399
Topoka	3480	-877	3480	-877
Heebner Shale	3638	-1035	3640	-1037
Toronto	3658	-1055	3661	-1058
Lansing	3674	-1071	3677	-1074
Stark Shale	3830	-1227	3832	-1229
Base/Kansas City	3864	-1261	3866	-1263
Total Depth	3932	-1329	3933	-1330

### ELEVATIONS

KB **2603 Ft.**

GL **2598 Ft.**

ALL MEASUREMENTS FROM K.B.

### CASING RECORD

Conductor **None**

Surface **8 5/8" @ 316'**

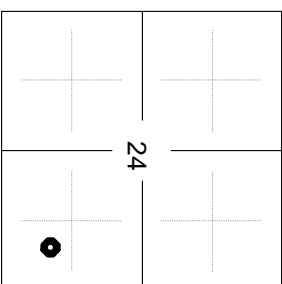
Production **None**

### ELECTRICAL SURVEYS

**Pioneer Energy Services**

Comp. Neutron Density

Dual Induction



### REMARKS

API 15-179-21346-00-00

Drilling Fluids: Mud-Co./Service Mud, Inc. (Gary Schmidtberger, engineer)

Drill Stem Testing: Trilobite Testing, Inc. (Chuck Kreutzer, tester)

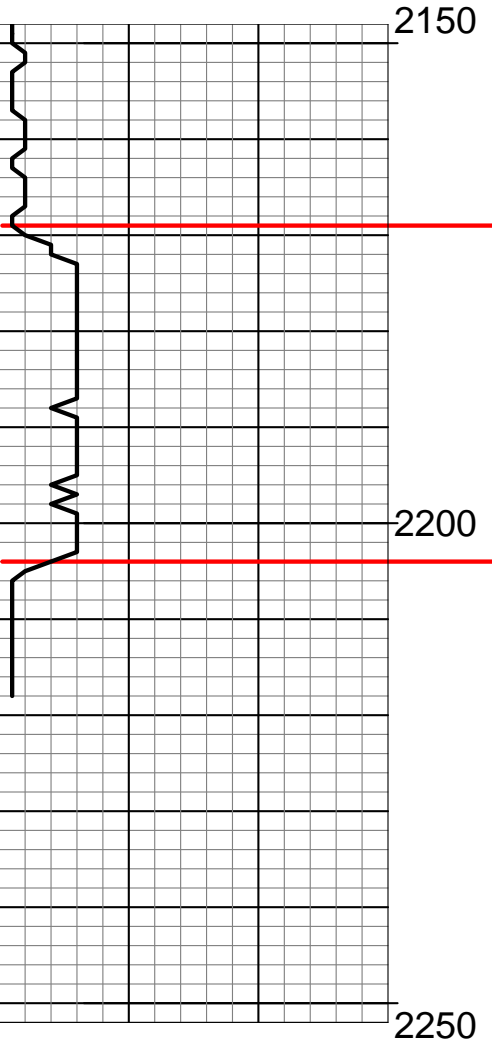
Gas Trailer: No Gas Trailer

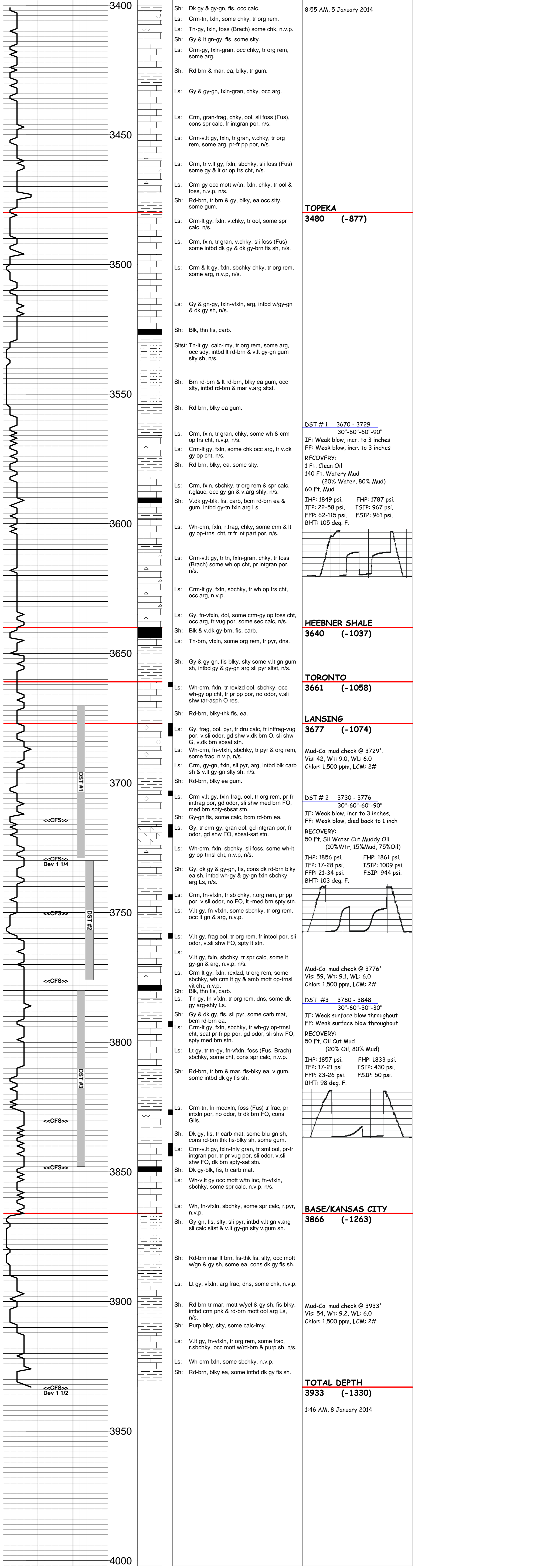
Reserve Pit Chlorides: 6,000 PPM

REMARKS	SAMPLE DESCRIPTIONS	SHOWS	LITHOLOGY	DEPTH	DRILL TIME (MIN/FT)
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**STONE CORRAL**  
2169 (+434)

**BASE/ANHYDRITE**  
2204 (+399)





Sh: Dk gy & gy-gn, fis. occ calc.  
 Ls: Crm-tn, fxln, some chky, tr org rem.  
 Ls: Tn-gy, fxln, foss (Brach) some chk, n.v.p.  
 Sh: Gy & lt gn-gy, fis, some slty.  
 Ls: Crm-gy, fxln-gran, occ chky, tr org rem, some arg.  
 Sh: Rd-brn & mar, ea, blk, tr gum.  
 Ls: Gy & gy-gn, fxln-gran, chky, occ arg.  
 Ls: Crm, gran-frag, chky, ool, sli foss (Fus), cons spr calc, fr intgran por, n/s.  
 Ls: Crm-v.lt gy, fxln, tr gran, v.chky, tr org rem, some arg, pr-fr pp por, n/s.  
 Ls: Crm, tr v.lt gy, fxln, sbchky, sli foss (Fus) some gy & lt or op frs cht, n/s.  
 Ls: Crm-gy occ mott w/tn, fxln, chky, tr ool & foss, n.v.p, n/s.  
 Sh: Rd-brn, tr brn & gy, blk, ea occ slty, some gum.  
 Ls: Crm-lt gy, fxln, v.chky, tr ool, some spr calc, n/s.  
 Ls: Crm, fxln, tr gran, v.chky, sli foss (Fus) some intbd dk gy & dk gy-brn fis sh, n/s.  
 Ls: Crm & lt gy, fxln, sbchky-chky, tr org rem, some arg, n.v.p, n/s.  
 Ls: Gy & gn-gy, fxln-vfxln, arg, intbd w/gy-gn & dk gy sh, n/s.  
 Sh: Blk, thn fis, carb.  
 Slst: Tn-lt gy, calc-lmy, tr org rem, some arg, occ sdy, intbd lt rd-brn & v.lt gy-gn gum slty sh, n/s.  
 Sh: Brn rd-brn & lt rd-brn, blk ea gum, occ slty, intbd rd-brn & mar v.arg slst.  
 Sh: Rd-brn, blk ea gum.  
 Ls: Crm, fxln, tr gran, chky, some wh & crm op frs cht, n.v.p, n/s.  
 Ls: Crm-lt gy, fxln, some chk occ arg, tr v.dk gy op cht, n/s.  
 Sh: Rd-brn, blk, ea. some slty.  
 Ls: Crm, fxln, sbchky, tr org rem & spr calc, r.glauc, occ gy-gn & v.arg-shly, n/s.  
 Sh: V.dk gy-blk, fis, carb, bcm rd-brn ea & gum, intbd gy-tn fxln arg Ls.  
 Ls: Wh-crm, fxln, r.frag, chky, some crm & lt gy op-trnsl cht, tr fr int part por, n/s.  
 Ls: Crm-v.lt gy, tr tn, fxln-gran, chky, tr foss (Brach) some wh op cht, pr intgran por, n/s.  
 Ls: Crm-lt gy, fxln, sbchky, tr wh op frs cht, occ arg, n.v.p.  
 Ls: Gy, fn-vfxln, dol, some crm-gy op foss cht, occ arg, fr vug por, some sec calc, n/s.  
 Sh: Blk & v.dk gy-brn, fis, carb.  
 Ls: Tn-brn, vfxln, some org rem, tr pyr, dns.  
 Sh: Gy & gy-gn, fis-blky, slty some v.lt gn gum sh, intbd gy & gy-gn arg sli pyr slst, n/s.  
 Ls: Wh-crm, fxln, tr rexld ool, sbchky, occ wh-gy op cht, tr pr pp por, no odor, v.sli shw tar-asph O res.  
 Sh: Rd-brn, blk-thk fis, ea.  
 Ls: Gy, frag, ool, pyr, tr dru calc, fr intrfrag-vug por, v.sli odor, gd shw v.dk brn O, sli shw G, v.dk brn sbsat stn.  
 Ls: Wh-crm, fn-vfxln, sbchky, tr pyr & org rem, some frac, n.v.p, n/s.  
 Ls: Crm, gy-gn, fxln, sli pyr, arg, intbd blk carb sh & v.lt gy-gn slty sh, n/s.  
 Sh: Rd-brn, blk ea gum.  
 Ls: Crm-v.lt gy, fxln-frag, ool, tr org rem, pr-fr intrfrag por, gd odor, sli shw med brn FO, med brn spty-sbsat stn.  
 Sh: Gy-gn fis, some calc, bcm rd-brn ea.  
 Ls: Gy, tr crm-gy, gran dol, gd intgran por, fr odor, gd shw FO, sbsat-sat stn.  
 Ls: Wh-crm, fxln, sbchky, sli foss, some wh-lt gy op-trnsl cht, n.v.p, n/s.  
 Sh: Gy, dk gy & gy-gn, fis, cons dk rd-brn blk ea sh, intbd wh-gy & gy-gn fxln sbchky arg Ls, n/s.  
 Ls: Crm, fn-vfxln, tr sb chky, r.org rem, pr pp por, v.sli odor, no FO, lt-med brn spty stn.  
 Ls: V.lt gy, fn-vfxln, some sbchky, tr org rem, occ lt gn & arg, n.v.p.  
 Ls: V.lt gy, frag ool, tr org rem, fr intool por, sli odor, v.sli shw FO, spty lt stn.  
 Ls: V.lt gy, fxln, sbchky, tr spr calc, some lt gy-gn & arg, n.v.p, n/s.  
 Ls: Crm-lt gy, fxln, rexld, tr org rem, some sbchky, wh crm lt gy & amb mott op-trnsl vit cht, n.v.p.  
 Sh: Blk, thn fis, carb.  
 Ls: Tn-gy, fn-vfxln, tr org rem, dns, some dk gy arg-shly Ls.  
 Sh: Gy & dk gy, fis, sli pyr, some carb mat, bcm rd-brn ea.  
 Ls: Crm-lt gy, fxln, sbchky, tr wh-gy op-trnsl cht, scat pr-fr pp por, gd odor, sli shw FO, spty med brn stn.  
 Ls: Lt gy, tr tn-gy, fn-vfxln, foss (Fus, Brach) sbchky, some cht, cons spr calc, n.v.p.  
 Sh: Rd-brn, tr brn & mar, fis-blky ea, v.gum, some intbd dk gy fis sh.  
 Ls: Crm-tn, fn-medxln, foss (Fus) tr frac, pr intxln por, no odor, tr dk brn FO, cons Gils.  
 Sh: Dk gy, fis, tr carb mat, some blu-gn sh, cons rd-brn thk fis-blky sh, some gum.  
 Ls: Crm-v.lt gy, fxln-fnly gran, tr sml ool, pr-fr intgran por, tr pr vug por, sli odor, v.sli shw FO, dk brn spty-sat stn.  
 Sh: Dk gy-blk, fis, tr carb mat.  
 Ls: Wh-v.lt gy occ mott w/tn inc, fn-vfxln, sbchky, some spr calc, n.v.p, n/s.  
 Ls: Wh, fn-vfxln, sbchky, some spr calc, r.pyr, n.v.p.  
 Sh: Gy-gn, fis, slty, sli pyr, intbd v.lt gn v.arg sli calc slst & v.lt gy-gn slty v.gum sh.  
 Sh: Rd-brn mar lt brn, fis-thk fis, slty, occ mott w/gn & gy sh, some ea, cons dk gy fis sh.  
 Ls: Lt gy, vfxln, arg frac, dns, some chk, n.v.p.  
 Sh: Rd-brn tr mar, mott w/yel & gy sh, fis-blky, intbd crm pnk & rd-brn mott ool arg Ls, n/s.  
 Sh: Purp blk, slty, some calc-lmy.  
 Ls: V.lt gy, fn-vfxln, tr org rem, some frac, r.sbchky, occ mott w/rd-brn & purp sh, n/s.  
 Ls: Wh-crm fxln, some sbchky, n.v.p.  
 Sh: Rd-brn, blk ea, some intbd dk gy fis sh.

8:55 AM, 5 January 2014

**TOPEKA**  
**3480 (-877)**

DST # 1 3670 - 3729  
 30"-60"-60"-90"  
 IF: Weak blow, incr. to 3 inches  
 FF: Weak blow, incr. to 3 inches  
 RECOVERY:  
 1 Ft. Clean Oil  
 140 Ft. Watery Mud  
 (20% Water, 80% Mud)  
 60 Ft. Mud  
 IHP: 1849 psi. FHP: 1787 psi.  
 IFP: 22-58 psi. ISIP: 967 psi.  
 FFP: 62-115 psi. FSIP: 961 psi.  
 BHT: 105 deg. F.

**HEEBNER SHALE**  
**3640 (-1037)**

**TORONTO**  
**3661 (-1058)**

**LANSING**  
**3677 (-1074)**

Mud-Co. mud check @ 3729'  
 Vis: 42, Wt: 9.0, WL: 6.0  
 Chlor: 1,500 ppm, LCM: 2#

DST # 2 3730 - 3776  
 30"-60"-60"-90"  
 IF: Weak blow, incr to 3 inches.  
 FF: Weak blow, died back to 1 inch  
 RECOVERY:  
 50 Ft. Sli Water Cut Muddy Oil  
 (10%Wtr, 15%Mud, 75%Oil)  
 IHP: 1856 psi. FHP: 1861 psi.  
 IFP: 17-28 psi. ISIP: 1009 psi.  
 FFP: 21-34 psi. FSIP: 944 psi.  
 BHT: 103 deg. F.

Mud-Co. mud check @ 3776'  
 Vis: 59, Wt: 9.1, WL: 6.0  
 Chlor: 1,500 ppm, LCM: 2#

DST #3 3780 - 3848  
 30"-60"-30"-30"  
 IF: Weak surface blow throughout  
 FF: Weak surface blow throughout  
 RECOVERY:  
 50 Ft. Oil Cut Mud  
 (20% Oil, 80% Mud)  
 IHP: 1857 psi. FHP: 1833 psi.  
 IFP: 17-21 psi. ISIP: 430 psi.  
 FFP: 23-26 psi. FSIP: 50 psi.  
 BHT: 98 deg. F.

**BASE/KANSAS CITY**  
**3866 (-1263)**

Mud-Co. mud check @ 3933'  
 Vis: 54, Wt: 9.2, WL: 6.0  
 Chlor: 1,500 ppm, LCM: 2#

**TOTAL DEPTH**  
**3933 (-1330)**

1:46 AM, 8 January 2014

Operator: **COBALT ENERGY, LLC**  
 Lease: **MARX 'A' # 1-24**  
 Location: **833 FSL & 763 FEL SEC. 24 TWSP 6S RGE 26W**  
 County: **SHERIDAN State: KANSAS**



**CONSOLIDATED**  
Oil Well Services, LLC

265231

TICKET NUMBER 44591

LOCATION Oakley KS

FOREMAN Jerry Y

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-2-14	2180	Marx "A" 1-24	24	65	26w	Sheridan
CUSTOMER			STUDY #			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY						

CUSTOMER: Cobalt Energy  
 MAILING ADDRESS: 115 S Belmont # 12 P.O. box 8037  
 CITY: Wichita STATE: KS ZIP CODE: 67208  
 STUDY #: CR100 N 11 miles Westing  
 TRUCK # 463 DRIVER Jordan L  
 TRUCK # 693 DRIVER Lance R

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 318 CASING SIZE & WEIGHT 8 5/8 24#  
 CASING DEPTH 316 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 148 SLURRY VOL 1.24 WATER gal/sk \_\_\_\_\_ CEMENT LEFT In CASING 20'  
 DISPLACEMENT 18 3/4 bbl DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting a rig up on Marx in 16 break circulation mix 250 sks of common class A cement 4 3/8 calcium chloride and 2% gel washed up & displaced with 18 3/4 bbl fresh water & shut in. Circulated approx 6 bbl to pit

*Cement did circulate*

*Thanks Jerry & Crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1150 <sup>00</sup>	1150 <sup>00</sup> ✓
5406	60	MILEAGE	5 <sup>25</sup>	315 <sup>00</sup> ✓
5407A	11.8	ton mileage delivery	1 <sup>25</sup>	1239 <sup>00</sup> ✓
11015	250 SKS	common class A cement	18 <sup>52</sup>	4637 <sup>50</sup> ✓
1102	705 #	calcium chloride	.94	662 <sup>70</sup> ✓
118b	470	gel	.27	126 <sup>90</sup> ✓
			Subtotal	8131 <sup>10</sup>
			less 10% disc	913 <sup>11</sup> ✓
			Subtotal	7317 <sup>99</sup>
			SALES TAX 8.15	398.08 ✓
			ESTIMATED TOTAL	7716.07 ✓

**completed**

AUTHORIZATION Andy D...

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

# ALLIED OIL & GAS SERVICES, LLC 061396

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTH LAKE, TEXAS 76092

SERVICE POINT:  
Dakley

DATE <u>1-8-14</u>	SEC. <u>24</u>	TWP. <u>6</u>	RANGE <u>716</u>	CALLED OUT	ON LOCATION	JOB START <u>2:00 PM</u>	JOB FINISH <u>2:30 PM</u>
LEASE <u>Malv A</u>		WELL # <u>1-24</u>	LOCATION <u>Stuckey N rd R2 AA</u>			COUNTY <u>Sheridan</u>	STATE <u>KS</u>
OLD OR <u>(NEW)</u> (Circle one)							

CONTRACTOR Martin #16 OWNER Same

TYPE OF JOB <u>PSA</u>	CEMENT AMOUNT ORDERED <u>220 SKS 60 R10 P27</u>
HOLE SIZE <u>7 7/8</u> T.D. <u>3933</u>	<u>497 gal Var # floreal</u>
CASING SIZE _____ DEPTH _____	
TUBING SIZE _____ DEPTH _____	
DRILL PIPE _____ DEPTH _____	
TOOL _____ DEPTH _____	
PRES. MAX _____ MINIMUM _____	
MEAS. LINE _____ SHOE JOINT _____	
CEMENT LEFT IN CSG. _____	
PERFS. _____	
DISPLACEMENT _____	

COMMON	<u>132 @ 17.90</u>	<u>2362.80</u>
POZMIX	<u>89 @ 9.35</u>	<u>822.85</u>
GEL	<u>7.5 @ 23.40</u>	<u>163.80</u>
CHLORIDE	@	
ASC	@	
<u>floral 5.5 #</u>	<u>@ 2.97</u>	<u>163.35</u>
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <u>24, 280 @ 2.48</u>		<u>575.97</u>
MILEAGE <u>9.46 @ 20 x 2.50</u>		<u>172.72</u>
TOTAL		<u>5820.49</u>

**EQUIPMENT**

PUMP TRUCK CEMENTER Rolly Gabel  
# 422 HELPER Wayne McElhugh  
BULK TRUCK  
# 3965306 DRIVER Eddie (TWS)  
BULK TRUCK  
# \_\_\_\_\_ DRIVER \_\_\_\_\_

**REMARKS:**

25 @ 2170  
100 @ 1425  
50 @ 365  
10 @ 43 w/wiper plug  
36 RH  
20 MH

Thank you  
Rolly & crew

CHARGE TO: Calvert Energy  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**SERVICE**

DEPTH OF JOB		<u>2170</u>
PUMP TRUCK CHARGE		<u>1250.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>M.L.V 70</u>	@ <u>4.40</u>	<u>308.00</u>
MANIFOLD	@	
<u>M.H.V 70</u>	@ <u>7.70</u>	<u>539.00</u>
	@	
TOTAL		<u>1558.00</u>

**PLUG & FLOAT EQUIPMENT**

<u>1-8 7/8 w/cement plug</u>	@ <u>10.70</u>	<u>107.64</u>
	@	
	@	
	@	
	@	
TOTAL		<u>107.64</u>

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME AFD  
SIGNATURE Ag. [Signature]

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 7,486.08  
DISCOUNT 1,475.68 IF PAID IN 30 DAYS  
6,010.39 Net.