



1263267



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

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1486

Date	8-21-15	Sec.	10	Twp.	12	Range	19	County	Ellis	State	KS	On Location		Finish	6:30pm
Lease								Location		Kreutzer Unit A Pocemento LN Severin RD 1/4E Ninto					

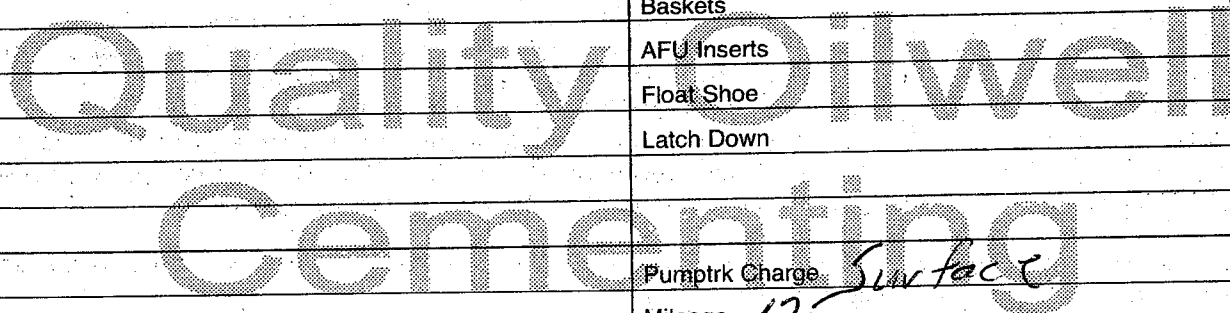
Well No.	1-10	Owner	To Quality Oilwell Cementing, Inc.
Contractor	Murphy #16	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Type Job	Surface	Charge To	Cobalt Energy
Hole Size	12 1/4	T.D.	219
Csg.	8 5/8	Depth	218
Tbg. Size		Street	
Tool		City	
Cement Left in Csg.	15'	State	
Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Amount Ordered		150 80/20 3 1/2 LL 2 1/2 GEL	

Meas Line	Displace	13 BCL	Common	120
<b>EQUIPMENT</b>			Poz. Mix	30
Pumptrk	20	No. Cementer		
		Helper		
Bulktrk		No. Driver		
		Driver		
Bulktrk	15	No. Driver		
		Driver		
<b>JOB SERVICES &amp; REMARKS</b>			Calcium	6

Remarks:		Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
8 5/8 on bottom Est. Circulation.		Sand	
Mix 150 SK 4 Displace.		Handling	159
		Mileage	

<b>FLOAT EQUIPMENT</b>	
Guide Shoe	
Centralizer	8 5/8 Swage
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	12

Signature	Ag Deibel	Tax	
		Discount	
		Total Charge	



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1027

Date	Sec.	Twp.	Range	County	State	On Location	Finish
8-27-15	10	12	19	Ellis	KS		11:00 AM
				Location Yocemento 6 1/2 N 1/2 E N into			

Lease <u>Kreutzer "A"</u>	Well No. <u>1-10</u>	Owner
Contractor <u>Murfin #16</u>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job <u>Plug</u>		Charge To <u>Cobalt Energy</u>
Hole Size <u>7 7/8</u>	T.D. <u>3900'</u>	Street
Csg. <u>Drill Pipe</u>	Depth	City
Tbg. Size	Depth	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered <u>305 60/40 40/60 Gel 1/4 lb</u>

Meas Line	Displace	Common <u>183</u>
<b>EQUIPMENT</b>		Poz. Mix <u>122</u>
Pumptrk <u>20</u> No.	Cementer Helper <u>Craig</u>	Gel. <u>11</u>
Bulktrk <u>19</u> No.	Driver <u>Billy</u>	Calcium
Bulktrk <u>PU</u> No.	Driver <u>Brett</u>	Hulls

<b>JOB SERVICES &amp; REMARKS</b>		Salt
Remarks:		Flowseal <u>76#</u>
Rat Hole <u>-30 sy</u>		Kol-Seal
Mouse Hole <u>-15</u>		Mud CLR 48
Centralizers		CFL-117 or CD110 CAF 38
Baskets		Sand
D/V or Port Collar		Handling <u>316</u>
<u>1st Plug @ 3819 w/ 50 sy</u>		Mileage <u>8 5/8</u>
<u>2nd Plug @ 1560 w/ 50 sy</u>		<b>FLOAT EQUIPMENT</b>
<u>3rd Plug @ 270 w/ 100 sy</u>		Guide Shoe
<u>4th Plug @ 270 w/ 50 sy</u>		Centralizer
<u>5th Plug @ 40 w/ 10 sy</u>		Baskets
		AFU Inserts
		Float Shoe
		Latch Down
		Wood Plug <u>-1</u>
		Pumptrk Charge <u>plug</u>
		Mileage <u>12</u>

X Signature <u>[Handwritten Signature]</u>	Tax
	Discount
	Total Charge



## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy**

PO Box 8037  
Wichita KS 67208

ATTN: Bob O'Dell

### **Kreutzer Unit A 1-10**

### **10-12s-19w Ellis,KS**

Start Date: 2015.08.25 @ 18:05:00

End Date: 2015.08.25 @ 23:20:15

Job Ticket #: 64715                      DST #: 1

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

Printed: 2015.08.27 @ 11:52:01



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Cobalt Energy

**10-12s-19w Ellis,KS**

PO Box 8037  
Wichita KS 67208

**Kreutzer Unit A 1-10**

Job Ticket: 64715

**DST#: 1**

ATTN: Bob O'Dell

Test Start: 2015.08.25 @ 18:05:00

## GENERAL INFORMATION:

Formation: **KC "I - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:52:30

Time Test Ended: 23:20:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 81

**Interval: 3654.00 ft (KB) To 3690.00 ft (KB) (TVD)**

Reference Elevations: 2224.00 ft (KB)

Total Depth: 3690.00 ft (KB) (TVD)

2219.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8957 Outside**

Press@RunDepth: 20.56 psig @ 3655.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.25

End Date:

2015.08.25

Last Calib.:

2015.08.25

Start Time:

18:05:05

End Time:

23:20:14

Time On Btm:

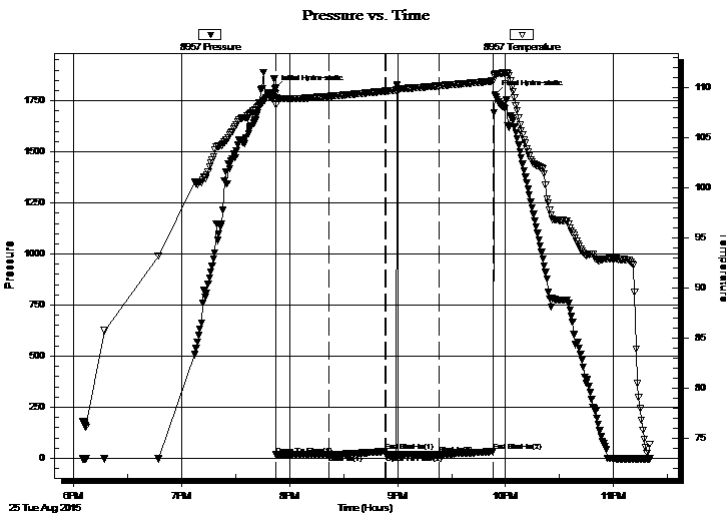
2015.08.25 @ 19:52:00

Time Off Btm:

2015.08.25 @ 21:54:00

**TEST COMMENT:** IF-Very weak surface blow died in 9 min  
IS-No blow  
FF-No blow flush tool No blow  
FS-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1806.99	109.33	Initial Hydro-static
1	17.34	108.25	Open To Flow (1)
30	18.63	109.08	Shut-In(1)
61	33.59	109.59	End Shut-In(1)
62	17.53	109.59	Open To Flow (2)
91	20.56	110.12	Shut-In(2)
121	33.01	110.60	End Shut-In(2)
122	1780.31	111.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy

**10-12s-19w Ellis,KS**

PO Box 8037  
Wichita KS 67208

**Kreutzer Unit A 1-10**

Job Ticket: 64715

**DST#: 1**

ATTN: Bob O'Dell

Test Start: 2015.08.25 @ 18:05:00

## Tool Information

Drill Pipe:	Length: 3615.00 ft	Diameter: 3.80 inches	Volume: 50.71 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - 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:	52000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3654.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	64.00 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			3631.00	
Hydraulic tool	5.00			3636.00	
Jars	5.00			3641.00	
Safety Joint	3.00			3644.00	
Packer	5.00			3649.00	28.00 Bottom Of Top Packer
Packer	5.00			3654.00	
Stubb	1.00			3655.00	
Recorder	0.00	8957	Outside	3655.00	
Recorder	0.00	8736	Inside	3655.00	
Perforations	32.00			3687.00	
Bullnose	3.00			3690.00	36.00 Bottom Packers & Anchor

**Total Tool Length: 64.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Cobalt Energy

**10-12s-19w Ellis,KS**

PO Box 8037  
Wichita KS 67208

**Kreutzer Unit A 1-10**

Job Ticket: 64715

**DST#: 1**

ATTN: Bob O'Dell

Test Start: 2015.08.25 @ 18:05:00

### 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

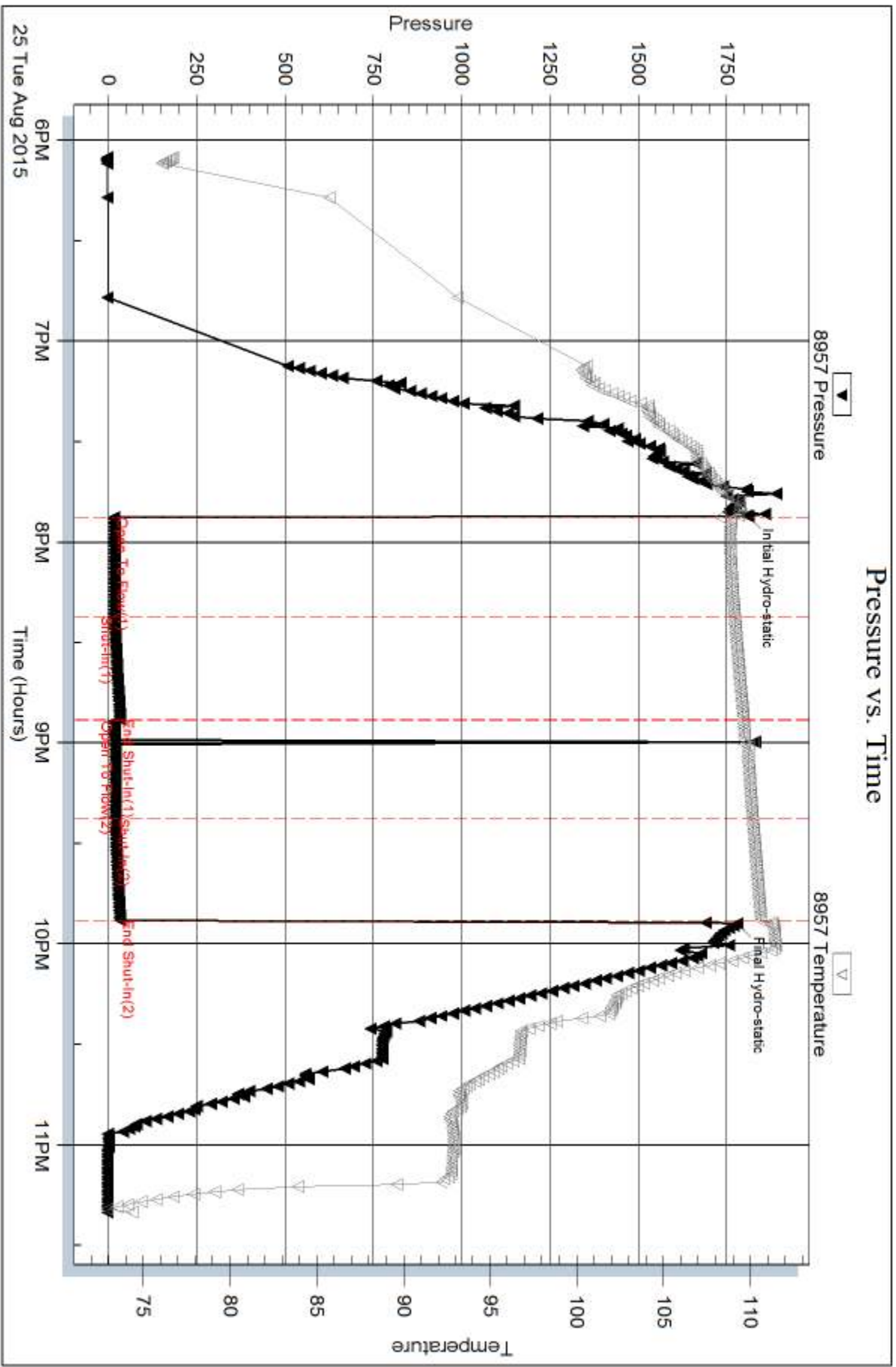
Num Gas Bombs: 0

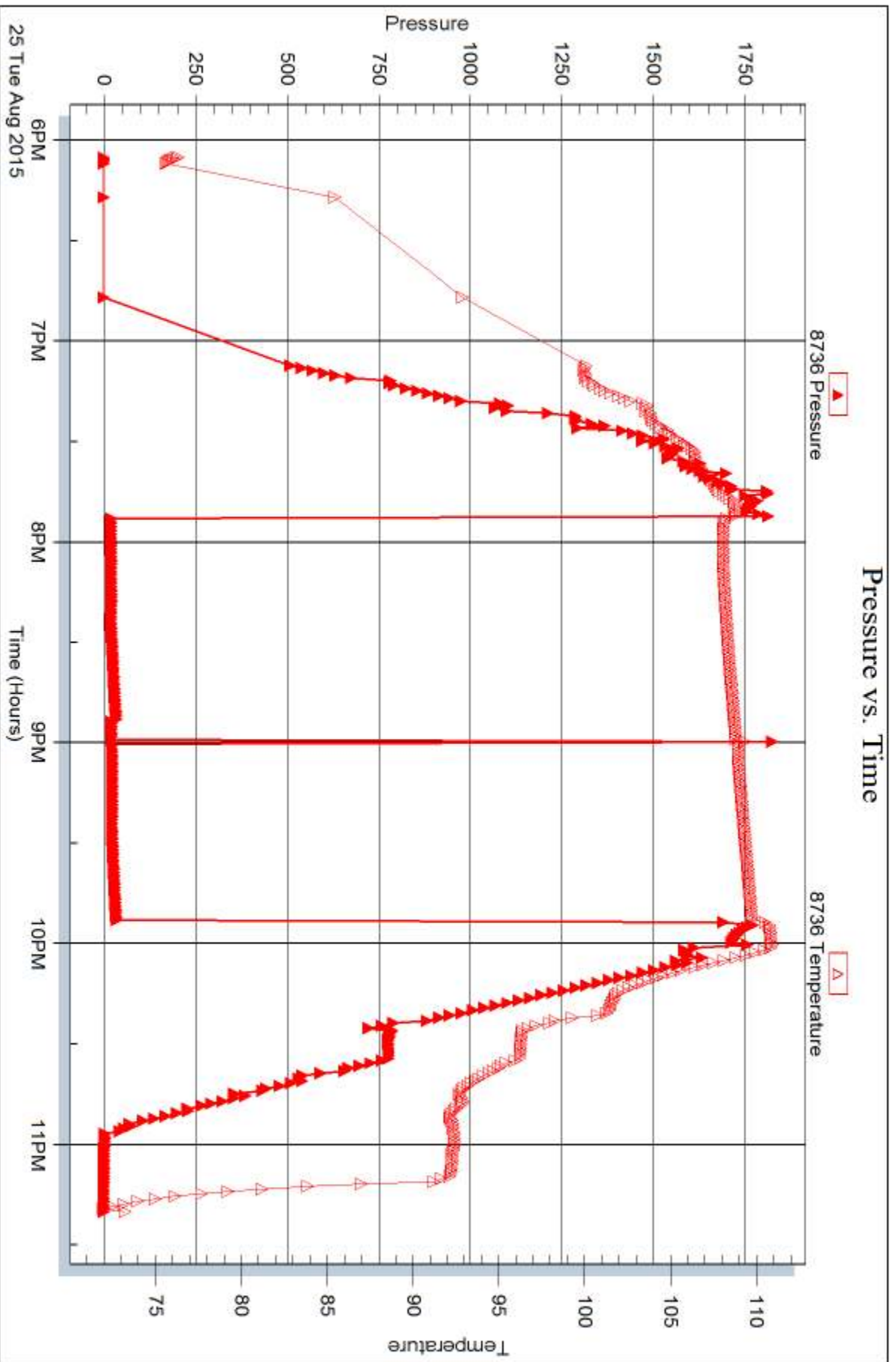
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy**

PO Box 8037  
Wichita KS 67208

ATTN: Bob O'Dell

### **Kreutzer Unit A 1-10**

### **10-12s-19w Ellis,KS**

Start Date: 2015.08.26 @ 08:40:00

End Date: 2015.08.26 @ 14:22:30

Job Ticket #: 64716                      DST #: 2

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

Printed: 2015.08.27 @ 11:51:11



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Cobalt Energy

**10-12s-19w Ellis,KS**

PO Box 8037  
Wichita KS 67208

**Kreutzer Unit A 1-10**

Job Ticket: 64716

**DST#: 2**

ATTN: Bob O'Dell

Test Start: 2015.08.26 @ 08:40:00

## GENERAL INFORMATION:

Formation: **KC "K - L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:24:30

Time Test Ended: 14:22:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 81

**Interval: 3689.00 ft (KB) To 3745.00 ft (KB) (TVD)**

Reference Elevations: 2224.00 ft (KB)

Total Depth: 3745.00 ft (KB) (TVD)

2219.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8957 Outside**

Press@RunDepth: 27.78 psig @ 3695.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.26

End Date: 2015.08.26

Last Calib.: 2015.08.26

Start Time: 08:40:05

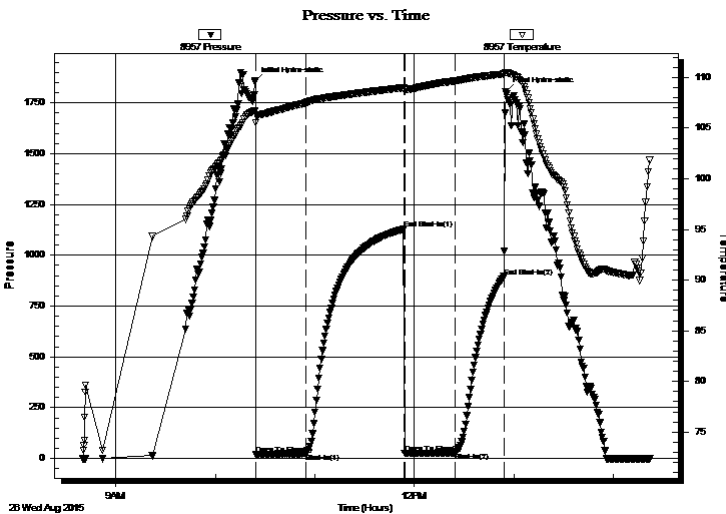
End Time: 14:22:29

Time On Btm: 2015.08.26 @ 10:24:00

Time Off Btm: 2015.08.26 @ 12:55:15

TEST COMMENT: IF-1/4" blow  
IS-No blow  
FF-No blow  
FS-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1854.44	106.66	Initial Hydro-static
1	19.21	105.57	Open To Flow (1)
31	23.44	107.50	Shut-In(1)
90	1128.84	109.00	End Shut-In(1)
91	26.19	108.61	Open To Flow (2)
121	27.78	109.66	Shut-In(2)
150	895.79	110.34	End Shut-In(2)
152	1806.59	110.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	OS Mud	0.02

\* 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

**10-12s-19w Ellis,KS**

PO Box 8037  
Wichita KS 67208

**Kreutzer Unit A 1-10**

Job Ticket: 64716

**DST#: 2**

ATTN: Bob O'Dell

Test Start: 2015.08.26 @ 08:40:00

## Tool Information

Drill Pipe:	Length: 3640.00 ft	Diameter: 3.80 inches	Volume: 51.06 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - 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:	50000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	46000.00 lb
Drill Pipe Above KB:	9.00 ft			Final	46000.00 lb
Depth to Top Packer:	3689.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	84.00 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			3666.00	
Hydraulic tool	5.00			3671.00	
Jars	5.00			3676.00	
Safety Joint	3.00			3679.00	
Packer	5.00			3684.00	28.00 Bottom Of Top Packer
Packer	5.00			3689.00	
Stubb	1.00			3690.00	
Perforations	5.00			3695.00	
Recorder	0.00	8957	Outside	3695.00	
Recorder	0.00	8736	Inside	3695.00	
Change Over Sub	1.00			3696.00	
Drill Pipe	32.00			3728.00	
Change Over Sub	1.00			3729.00	
Perforations	13.00			3742.00	
Bullnose	3.00			3745.00	56.00 Bottom Packers & Anchor

**Total Tool Length: 84.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy

**10-12s-19w Ellis,KS**

PO Box 8037  
Wichita KS 67208

**Kreutzer Unit A 1-10**

Job Ticket: 64716

**DST#: 2**

ATTN: Bob O'Dell

Test Start: 2015.08.26 @ 08:40:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OS Mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

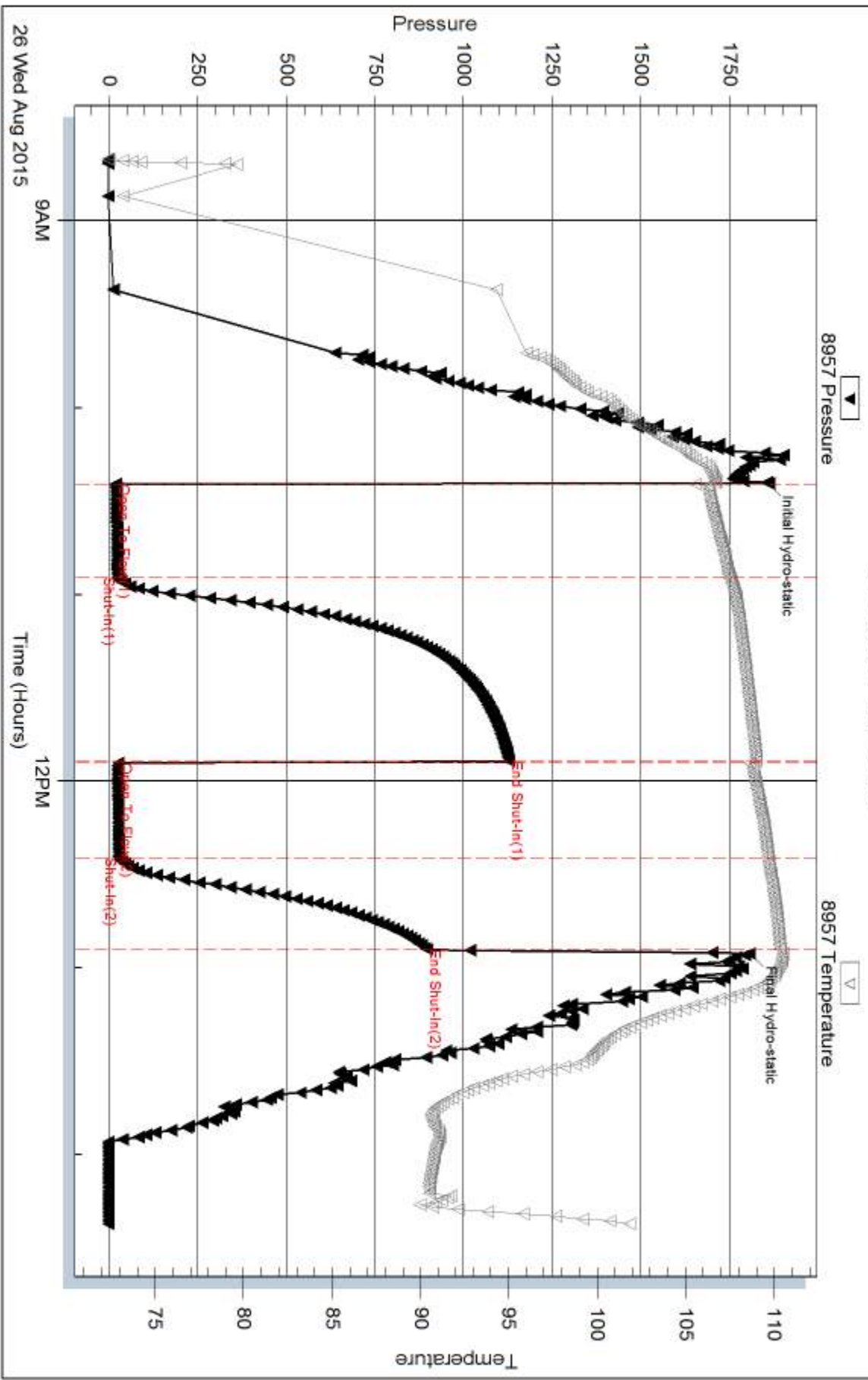
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



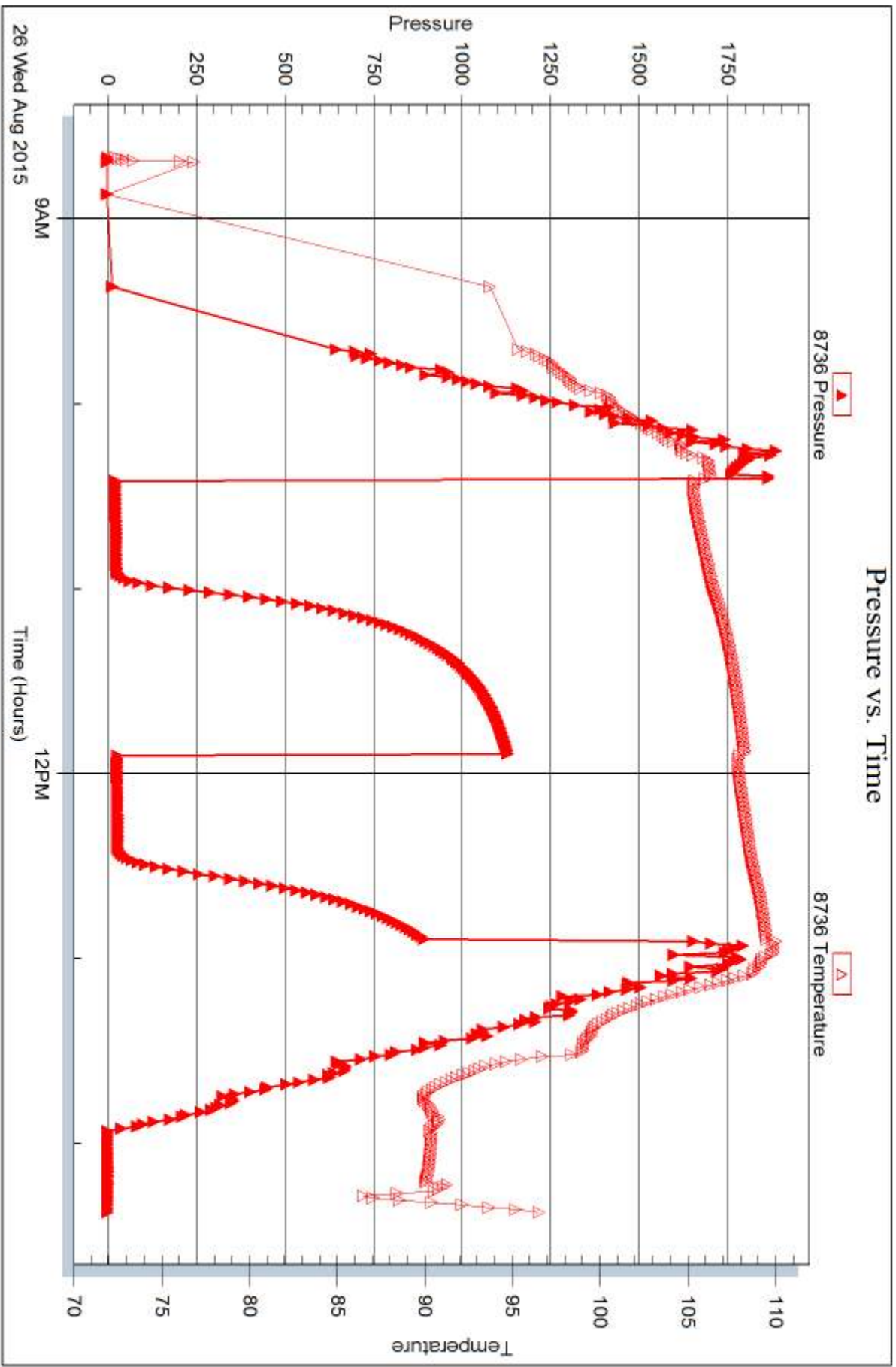
Serial #: 8736

Inside

Cobalt Energy

Kreutzer Unit A 1-10

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64716

Printed: 2015.08.27 @ 11:51:13



# TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64715**

Well Name & No. Kreutzer Unit 'A' Test No. 1 Date 8-25-15  
 Company Cobalt Energy LLC Elevation 2224 KB 2219 GL  
 Address PO Box 8037 Wichita KS 67208  
 Co. Rep / Geo. Bob O'Dell Rig Murfin #16  
 Location: Sec. 10 Twp. 12s Rge. 19w Co. Ellis State KS

Interval Tested 3654 - 3690 Zone Tested KC" F, D "  
 Anchor Length 36 Drill Pipe Run 3615 Mud Wt. 9.1  
 Top Packer Depth 3649 Drill Collars Run 30 Vis 55  
 Bottom Packer Depth 3654 Wt. Pipe Run — WL 7.2  
 Total Depth 3690 Chlorides 2000 ppm System LCM 2

Blow Description IF - very weak surface blow died in 9 min  
ISF - No blow  
EF - No blow flush tool No blow  
FSF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Macl</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 5 BHT 111 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1,807</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>17:15</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>18:05</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:48</u>
(D) Initial Shut-In <u>34</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>21:48</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>23:20</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>34 RT</u>	Comments _____
(G) Final Shut-In <u>33</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1780</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1409</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1409</u>	

Approved By \_\_\_\_\_ Our Representative Butt

Triobite 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. **64716**

Well Name & No. Kreutzer Unit "A" Test No. 2 Date 8-26-15  
 Company Cobalt Energy LLC Elevation 2224 KB 2219 GL  
 Address PO Box 8037 Wichita KS 67208  
 Co. Rep / Geo. Bob O'Dell Rig Murfin #16  
 Location: Sec. 10 Twp. 12s Rge. 19w Co. Ellis State KS

Interval Tested 3689-3745 Zone Tested KC "K,L"  
 Anchor Length 56 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.1  
 Top Packer Depth 3684 Drill Collars Run 30 Vis 55  
 Bottom Packer Depth 3689 Wt. Pipe Run - WL 7.2  
 Total Depth 3745 Chlorides 2,000 ppm System LCM 2#  
 Blow Description IF - 1/4 in blow  
ISI - No blow  
FF - No blow  
FSD - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>os mud</u>				
____	____				
____	____				
____	____				
____	____				

Rec Total 5 BHT 110 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>6854</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>8:15</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>8:40</u>
(C) First Final Flow <u>23</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:20</u>
(D) Initial Shut-In <u>1,129</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>12:50</u>
(E) Second Initial Flow <u>26</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>14:20</u>
(F) Second Final Flow <u>28</u>	<input checked="" type="checkbox"/> Mileage <u>34.1 x 2</u> +34	Comments <u>loaded tools</u>
(G) Final Shut-In <u>896</u>	<input type="checkbox"/> Sampler _____	<u>6:00 on 8-27-15</u>
(H) Final Hydrostatic <u>1807</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1443</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1443</u>	

Approved By \_\_\_\_\_ Our Representative Bob O'Dell

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.

# ROBERT E. O'DELL

## Petroleum Geologist

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

**COMPANY** Cobalt Energy, LLC.  
**LEASE** Kreutzer Unit 'A' #1-10  
**FIELD** Willicat  
**LOCATION** 866' FSL & 2570' FWL  
**SEC** 10 **TWSP** 12S **RGE** 19W  
**COUNTY** Ellis **STATE** Kansas  
**CONTRACTOR** Muffin Drilling Rig #16  
**SPUD** 8-21-2015 **COMP** 8-27-2015  
**RTD** 3900' **LTD** 3899'  
**MUD UP** 2900' **TYPE MUD** Chemical  
**SAMPLES SAVED FROM** 3100' TO RTD  
**DRILLING TIME KEPT FROM** 3100' TO RTD  
**SAMPLES EXAMINED FROM** 3100' TO RTD  
**GEOLOGICAL SUPERVISION FROM** 3140' to RTD  
**GEOLOGIST ON WELL** Bob O'Dell

**ELEVATIONS**  
**KB** 2224'  
**DF** \_\_\_\_\_  
**GL** 2219'

**Measurements Are All From** KB  
**CASING** \_\_\_\_\_  
**CONDUCTOR** \_\_\_\_\_  
**SURFACE** 8-5/8" set @ 219'  
**PRODUCTION** None

**ELECTRICAL SURVEYS**  
**Radiation Guard w/cal**

**FORMATION TOPS** **ELECTRIC LOG** **SAMPLE**  
**Anhydrite** 1530 (+ 694) 1541 (+ 683)  
**Topeka** 3229 (- 1005) 3233 (- 1009)  
**Heebner** 3457 (- 1233) 3461 (- 1237)  
**Lansing** 3497 (- 1273) 3499 (- 1275)  
**BKC** 3739 (- 1515) 3739 (- 1515)  
**Arbuckle** 3839 (- 1615) 3828 (- 1604)  
**Total Depth** 3899 (- 1615) 3900 (- 1616)

AP# 15-051-26-799

**REMARKS** Due to the negative drillstem tests taken in the Lansing-Kansas City and lack of shows in other zones, decision was made to plug and abandon the Kreutzer Unit 'A' #1-10 at 3900' RTD.

Respectfully submitted,

Bob O'Dell  
 8/27/2015

