



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1226503
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: _____

1226503

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 <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 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				

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	Ritter "A" 1-32
Doc ID	1226503

Tops

Name	Top	Datum
Anhydrite	2123	412
Base Anhydrite	2155	380
Topeka	3319	-784
Heebner	3490	-955
Toronto	3519	-984
Lansing	3532	-997
Stark	3683	-1148
BKC	3729	-1194
Arbuckle	3930	-1395

GEOLOGICAL REPORT

Larry A. Nicholson

Neel 83 GPS Survey
88.0932334
-100.7112192

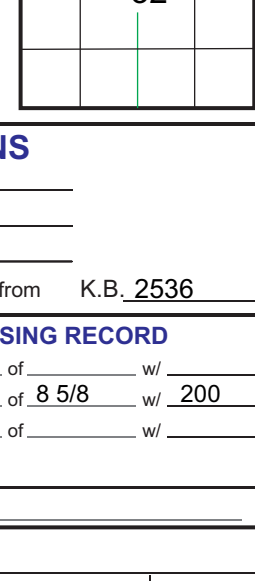
COMPANY & WELL: Cobalt Energy LLC Ritter 'A' #1-32
LOCATION: 335' FNL & 1200' FWL SE NE NW NW
SEC 32 TWP 33S R9E 26W
COUNTY Decatur STATE KS

COMPANY: Cobalt Energy LLC
API #: 15-039-21201 FIELD: n/a
LEASE: Ritter 'A' WELL #: #1-32
LOCATION: SE NE NW NW
SURVEY: 335' FNL & 1200' FWL
SECTION: 32 TWP 33S R9E 26W
COUNTY: Decatur STATE: Kansas

CONTRACTOR: Mufco Drilling Rig # 7
SPUD: 7-12-14 3:00 am COMP: 2536
RTD: 4000' 4:25 am 7-19-14 LTD: 4002
MUD TYPE: Chemical, Morgan Mud

SAMPLES SAVED FROM 3300 to RTD
FROM 3300 to RTD
SAMPLES EXAMINED FROM 3300 to RTD
GEOLOGICAL SUPERVISION FROM 3300 to RTD
WELL SITE GEOLOGIST: LARRY A. NICHOLSON

ELEVATIONS
K.B. 2536
D.F. 2531
G.L. 2531
All measurements from K.B. 2536



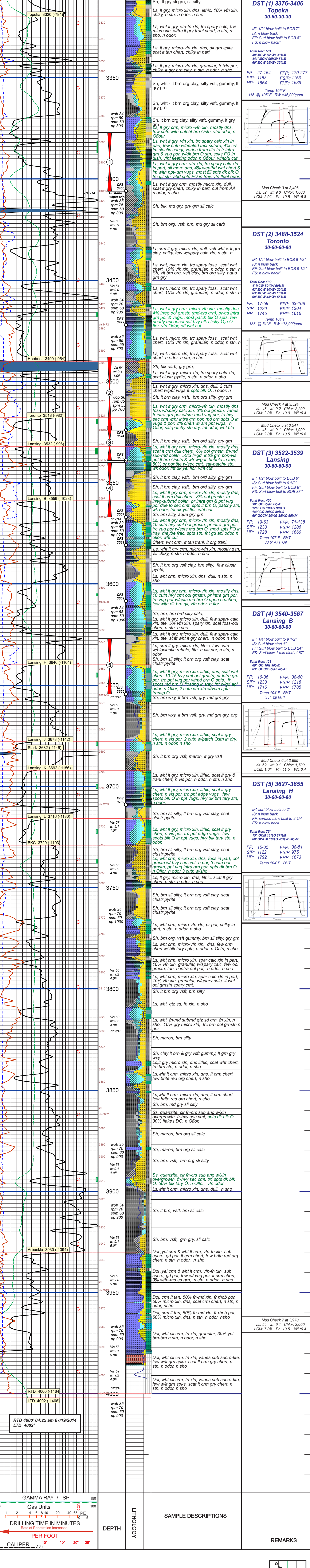
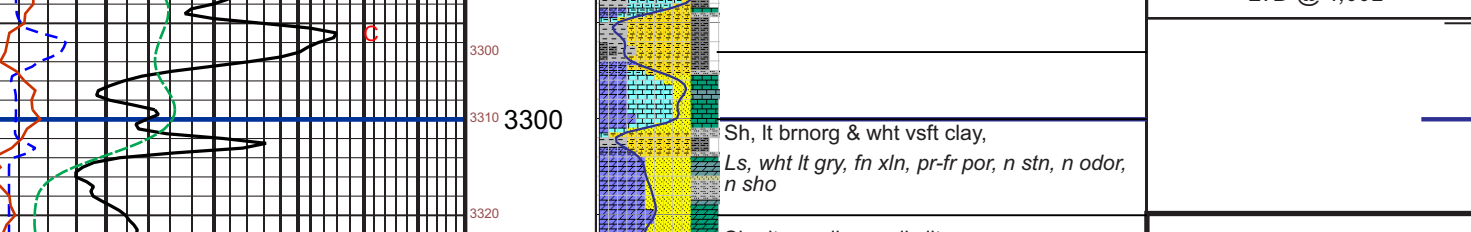
FORMATION TOPS & STRUCTURAL POSITION

FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELEC LOG YGRS	SUBSEA DATUM	REFERENCE WELL
Anhydr			2123	1413	A
Topoka			3320	-784	
Hebner			3490	-984	
Toronto			3518	-982	
Lansing			3532	-996	
Lansing B			3559	-1023	
Lansing J			3678	-1142	
Lansing K			3682	-1146	
Arbuckle			3692	-1156	
RTD			3729	-1193	
LTD			3930	-1394	
			4000	-1466	
			4002	-1464	

REMARKS & RECOMMENDATIONS:
Based on dst results and sample shows 5 1/2 csg was set.

LAN 792, Modified 5/05, 11/11, 4/12, 4/16; Hanover, KS 66945 1inch = 25.4mm 8.5 x 9.7 216 mm x 2460 mm

LEGEND



FORMATION TOPS & STRUCTURAL POSITION

FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELEC LOG YGRS	SUBSEA DATUM	REFERENCE WELL
Anhydr			2123	1413	A
Topoka			3320	-784	
Hebner			3490	-984	
Toronto			3518	-982	
Lansing			3532	-996	
Lansing B			3559	-1023	
Lansing J			3678	-1142	
Lansing K			3682	-1146	
Arbuckle			3692	-1156	
RTD			3729	-1193	
LTD			3930	-1394	
			4000	-1466	
			4002	-1464	

REMARKS & RECOMMENDATIONS:
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LEGEND



FORMATION TOPS & STRUCTURAL POSITION

FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELEC LOG YGRS	SUBSEA DATUM	REFERENCE WELL
Anhydr			2123	1413	A
Topoka			3320	-784	
Hebner			3490	-984	
Toronto			3518	-982	
Lansing			3532	-996	
Lansing B			3559	-1023	
Lansing J			3678	-1142	
Lansing K			3682	-1146	
Arbuckle			3692	-1156	
RTD			3729	-1193	
LTD			3930	-1394	
			4000	-1466	
			4002	-1464	

REMARKS & RECOMMENDATIONS:
Based on dst results and sample shows 5 1/2 csg was set.

LAN 792, Modified 5/05, 11/11, 4/12, 4/16; Hanover, KS 66945 1inch = 25.4mm 8.5 x 9.7 216 mm x 2460 mm

LEGEND



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Ritter A #1-32

32-3s-26w Decatur KS

Start Date: 2014.07.15 @ 10:08:00

End Date: 2014.07.15 @ 16:27:09

Job Ticket #: 58272 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.21 @ 09:36:02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58272

DST#: 1

ATTN: Larry Nicholson

Test Start: 2014.07.15 @ 10:08:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:58:10

Time Test Ended: 16:27:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 78

Interval: 3376.00 ft (KB) To 3406.00 ft (KB) (TVD)

Reference Elevations: 2536.00 ft (KB)

Total Depth: 3406.00 ft (KB) (TVD)

2531.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 277.12 psig @ 3377.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.15

End Date:

2014.07.15

Last Calib.:

2014.07.15

Start Time: 10:08:01

End Time:

16:27:10

Time On Btm:

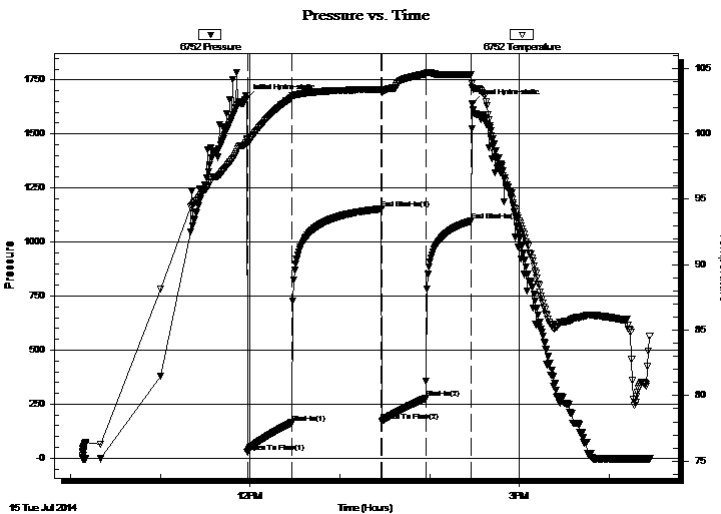
2014.07.15 @ 11:57:50

Time Off Btm:

2014.07.15 @ 14:28:30

TEST COMMENT: 30 IF - 1/2" blow built to BoB @ 7 mins
60 ISI - No return
30 FF - Surface blow built to BoB @ 8 mins
30 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1663.98	99.59	Initial Hydro-static
1	26.95	99.34	Open To Flow (1)
30	163.92	102.75	Shut-In(1)
90	1153.11	103.41	End Shut-In(1)
91	170.26	103.20	Open To Flow (2)
120	277.12	104.58	Shut-In(2)
150	1097.62	104.55	End Shut-In(2)
151	1638.78	103.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW - 35%M - 65%W	0.30
441.00	MCW - 5%M - 95%W	6.19
30.00	MCW - 30%M - 70%W	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58272

DST#: 1

ATTN: Larry Nicholson

Test Start: 2014.07.15 @ 10:08:00

Tool Information

Drill Pipe:	Length: 3299.00 ft	Diameter: 3.80 inches	Volume: 46.28 bbl	Tool Weight: 2500.00 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 46.58 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3376.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 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			3350.00	
Shut In Tool	5.00			3355.00	
Hydraulic tool	5.00			3360.00	
Jars	5.00			3365.00	
Safety Joint	2.00			3367.00	
Packer	5.00			3372.00	27.00 Bottom Of Top Packer
Packer	4.00			3376.00	
Stubb	1.00			3377.00	
Recorder	0.00	6752	Inside	3377.00	
Recorder	0.00	8322	Outside	3377.00	
Perforations	26.00			3403.00	
Bullnose	3.00			3406.00	30.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58272

DST#: 1

ATTN: Larry Nicholson

Test Start: 2014.07.15 @ 10:08:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 6.78 in³
Resistivity: ohm.m
Salinity: 1800.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 46000 ppm

Recovery Information

Recovery Table

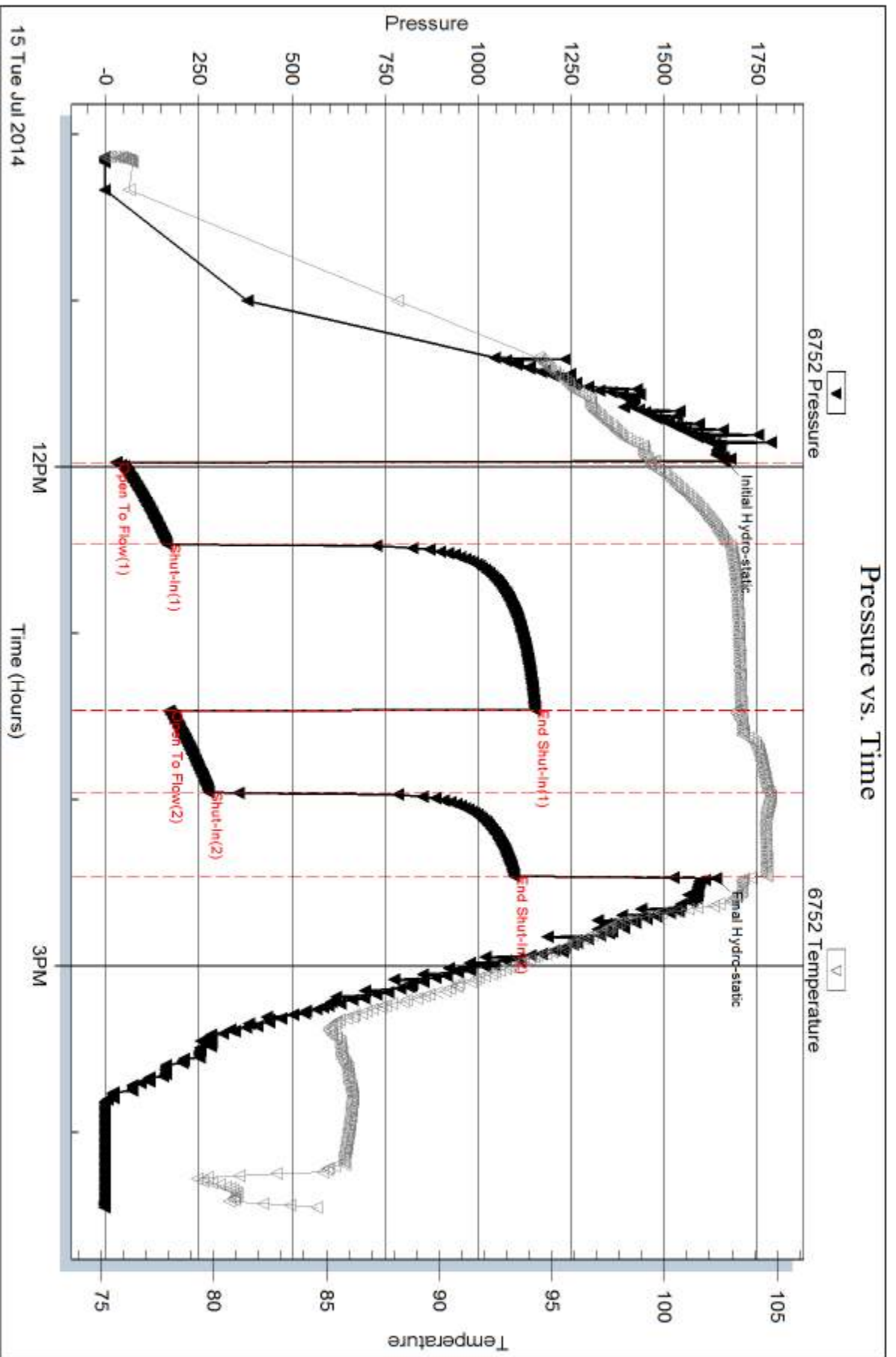
Length ft	Description	Volume bbl
60.00	MCW - 35%M - 65%W	0.295
441.00	MCW - 5%M - 95%W	6.186
30.00	MCW - 30%M - 70%W	0.421

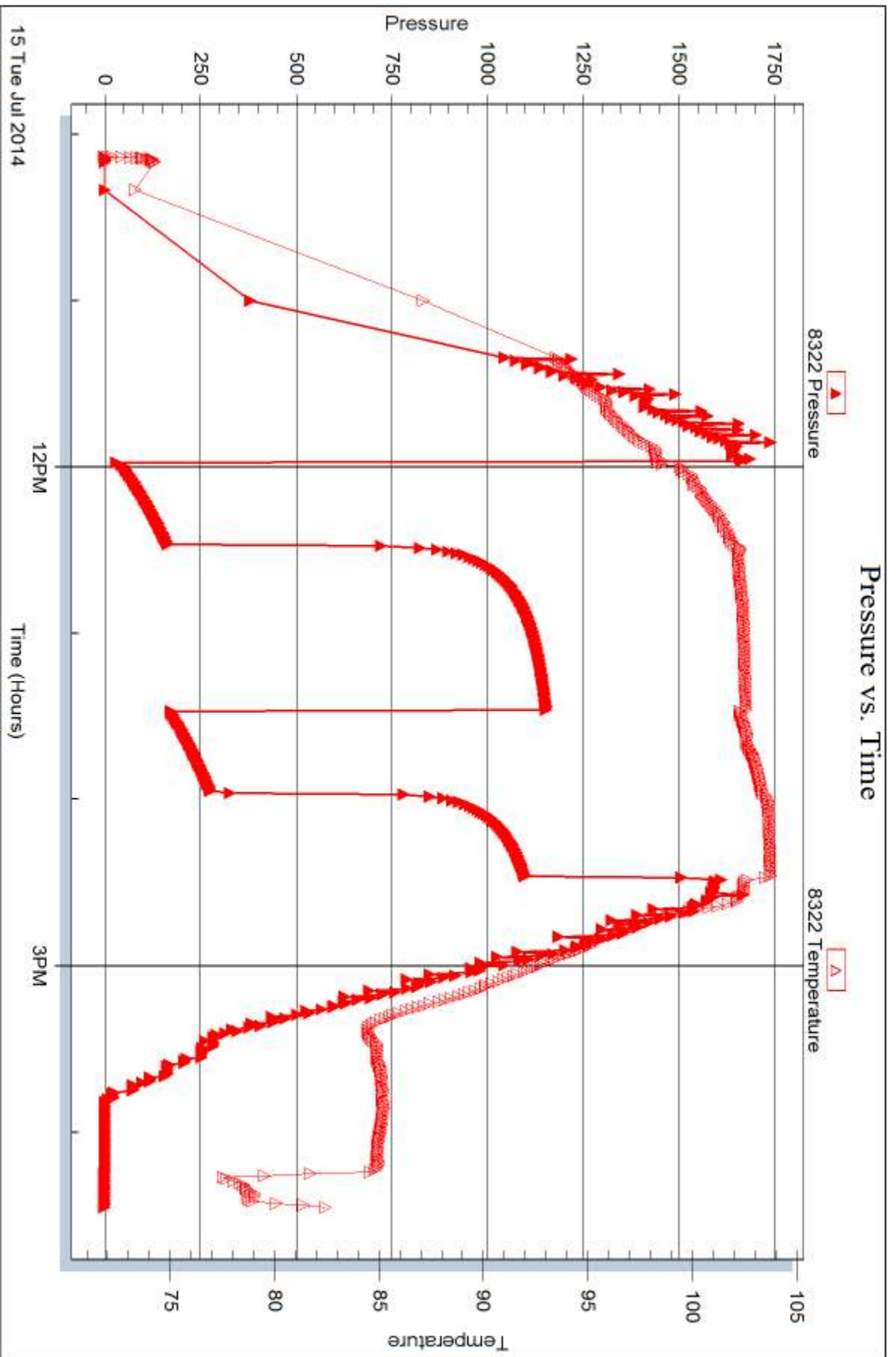
Total Length: 531.00 ft Total Volume: 6.902 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW = .115 @ 91.6 DEG F







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Ritter A #1-32

32-3s-26w Decatur KS

Start Date: 2014.07.16 @ 09:15:00

End Date: 2014.07.16 @ 16:48:50

Job Ticket #: 58273 DST #: 2

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

Printed: 2014.07.21 @ 09:35:36



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58273

DST#: 2

ATTN: Larry Nicholson

Test Start: 2014.07.16 @ 09:15:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:56:30

Time Test Ended: 16:48:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 3488.00 ft (KB) To 3524.00 ft (KB) (TVD)

Reference Elevations: 2536.00 ft (KB)

Total Depth: 3524.00 ft (KB) (TVD)

2531.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 108.24 psig @ 3489.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.16

End Date:

2014.07.16

Last Calib.:

2014.07.16

Start Time: 09:15:01

End Time:

16:48:50

Time On Btm:

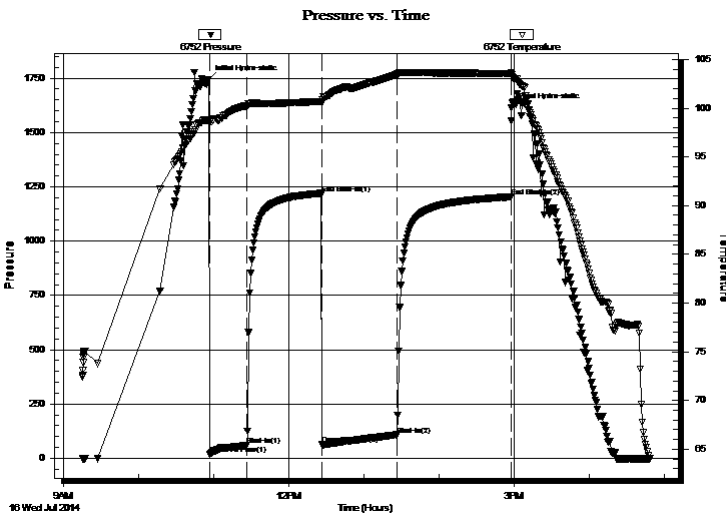
2014.07.16 @ 10:55:40

Time Off Btm:

2014.07.16 @ 14:58:09

TEST COMMENT: 30 IF - 1/4" blow built to 6 1/2"
60 ISI - No return
60 FF - Surface blow started @ 1 min built to 9 1/2"
90 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1745.16	98.83	Initial Hydro-static
1	16.73	98.57	Open To Flow (1)
31	59.35	100.22	Shut-In(1)
91	1219.92	100.68	End Shut-In(1)
91	63.36	100.53	Open To Flow (2)
151	108.24	103.45	Shut-In(2)
242	1204.13	103.58	End Shut-In(2)
243	1615.52	103.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM - 45%W - 55%M	0.30
63.00	MCW - 10%M - 90%W	0.88
63.00	MCW - 20%M - 80%W	0.88
4.00	MCW - 50%M - 50%W	0.06

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58273

DST#: 2

ATTN: Larry Nicholson

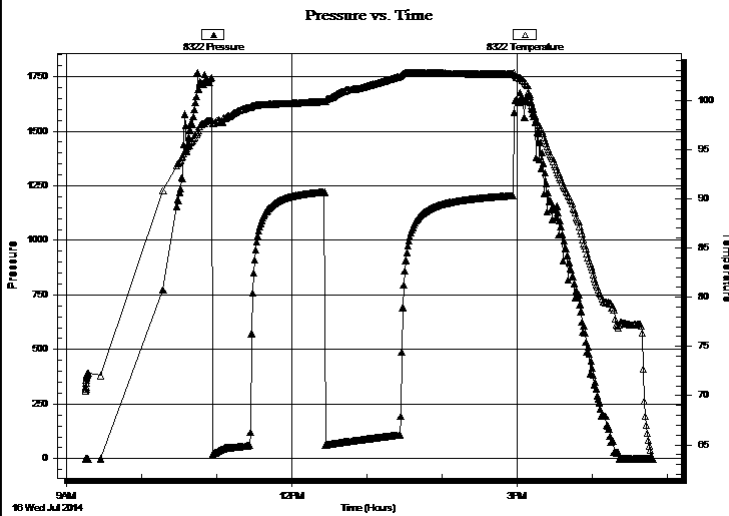
Test Start: 2014.07.16 @ 09:15:00

GENERAL INFORMATION:

Formation: Toronto	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Ryan Nichols
Time Tool Opened: 10:56:30	Unit No: 78
Time Test Ended: 16:48:50	
Interval: 3488.00 ft (KB) To 3524.00 ft (KB) (TVD)	Reference Elevations: 2536.00 ft (KB)
Total Depth: 3524.00 ft (KB) (TVD)	2531.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good	KB to GR/CF: 5.00 ft

Serial #: 8322 Outside	Capacity: 8000.00 psig
Press@RunDepth: psig @ 3489.00 ft (KB)	Last Calib.: 2014.07.16
Start Date: 2014.07.16	End Date: 2014.07.16
Start Time: 09:15:01	End Time: 16:48:40
	Time On Btm:
	Time Off Btm:

TEST COMMENT: 30 IF - 1/4" blow built to 6 1/2"
 60 ISI - No return
 60 FF - Surface blow started @ 1 min built to 9 1/2"
 90 FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM - 45%W - 55%M	0.30
63.00	MCW - 10%M - 90%W	0.88
63.00	MCW - 20%M - 80%W	0.88
4.00	MCW - 50%M - 50%W	0.06

* 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

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58273

DST#: 2

ATTN: Larry Nicholson

Test Start: 2014.07.16 @ 09:15:00

Tool Information

Drill Pipe:	Length: 3424.00 ft	Diameter: 3.80 inches	Volume: 48.03 bbl	Tool Weight: 2500.00 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 48.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3488.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	63.00 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			3462.00	
Shut In Tool	5.00			3467.00	
Hydraulic tool	5.00			3472.00	
Jars	5.00			3477.00	
Safety Joint	2.00			3479.00	
Packer	5.00			3484.00	27.00 Bottom Of Top Packer
Packer	4.00			3488.00	
Stubb	1.00			3489.00	
Recorder	0.00	6752	Inside	3489.00	
Recorder	0.00	8322	Outside	3489.00	
Perforations	32.00			3521.00	
Bullnose	3.00			3524.00	36.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58273

DST#: 2

ATTN: Larry Nicholson

Test Start: 2014.07.16 @ 09:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 6.39 in³
Resistivity: ohm.m
Salinity: 2200.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 78000 ppm

Recovery Information

Recovery Table

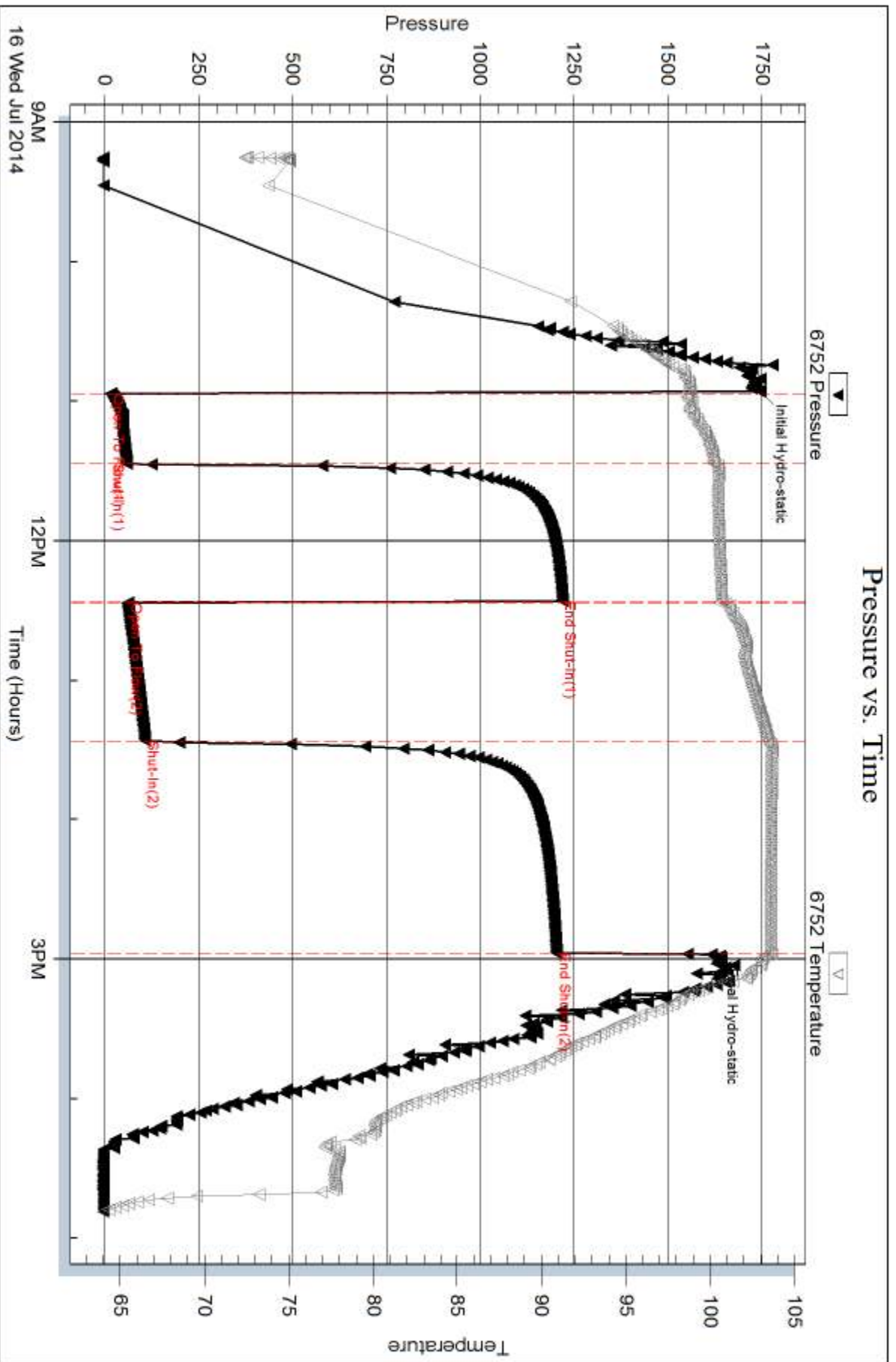
Length ft	Description	Volume bbl
60.00	WCM - 45%W - 55%M	0.295
63.00	MCW - 10%M - 90%W	0.884
63.00	MCW - 20%M - 80%W	0.884
4.00	MCW - 50%M - 50%W	0.056

Total Length: 190.00 ft Total Volume: 2.119 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW = .138 @ 61 DEG F

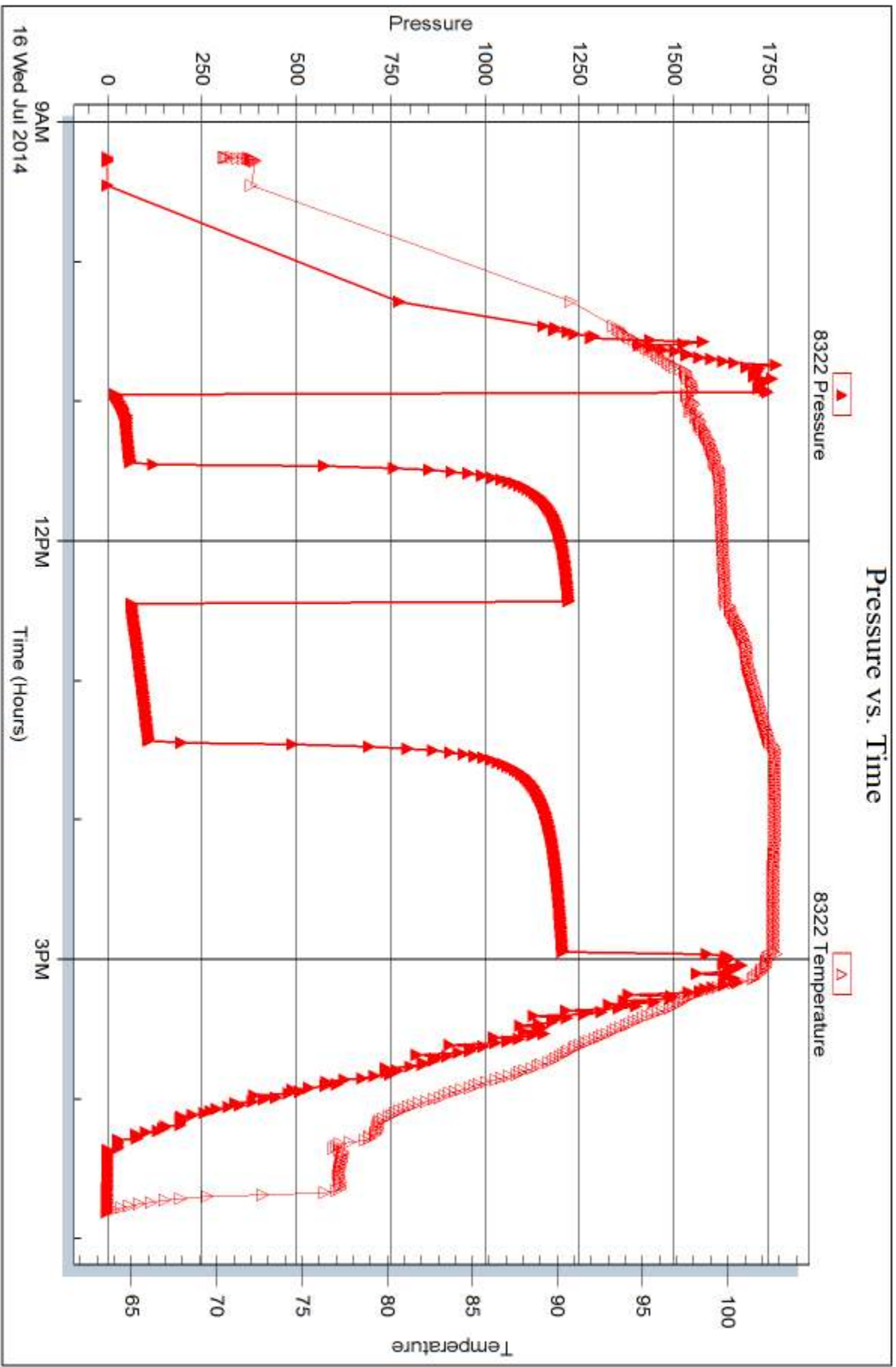


Serial #: 8322

Outside Cobalt Energy LLC

Ritter A #1-32

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 58273

Printed: 2014.07.21 @ 09:35:37



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Ritter A #1-32

32-3s-26w Decatur KS

Start Date: 2014.07.16 @ 23:20:00

End Date: 2014.07.17 @ 08:26:40

Job Ticket #: 58274 DST #: 3

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

Printed: 2014.07.21 @ 09:35:02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58274

DST#: 3

ATTN: Larry Nicholson

Test Start: 2014.07.16 @ 23:20:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:58:30

Time Test Ended: 08:26:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 3522.00 ft (KB) To 3539.00 ft (KB) (TVD)

Reference Elevations: 2536.00 ft (KB)

Total Depth: 3539.00 ft (KB) (TVD)

2531.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 138.29 psig @ 3523.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.16

End Date:

2014.07.17

Last Calib.:

2014.07.17

Start Time: 23:20:01

End Time:

08:26:40

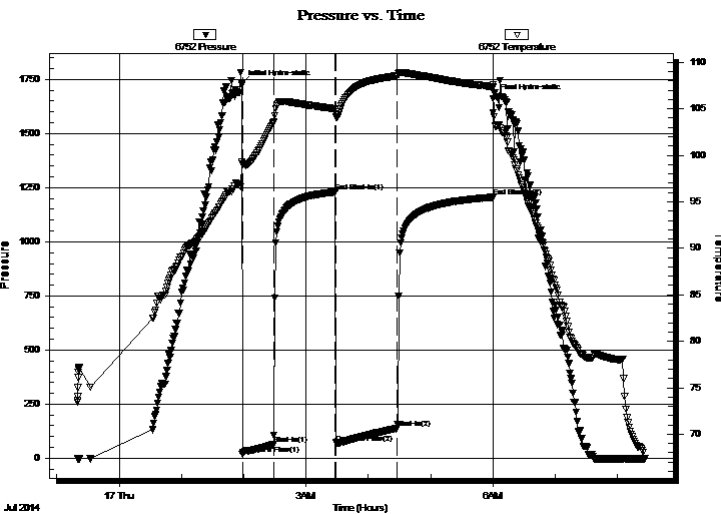
Time On Btm:

2014.07.17 @ 01:58:10

Time Off Btm:

2014.07.17 @ 06:00:09

TEST COMMENT: 30 IF - 1/2" blow built to BoB @ 6 mins
60 ISI - Surface blow built to 6 1/2"
60 FF - Surface blow built to BoB @ 8 mins
90 FSI - Surface blow built to BoB @ 33 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1728.14	99.31	Initial Hydro-static
1	19.13	99.05	Open To Flow (1)
31	63.01	103.49	Shut-In(1)
90	1230.30	105.01	End Shut-In(1)
91	70.74	104.50	Open To Flow (2)
150	138.29	108.55	Shut-In(2)
242	1205.67	107.36	End Shut-In(2)
242	1659.99	107.42	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
60.00	GOCM - 20%G - 25%o - 55%M	0.30
189.00	GO - 20%G - 80%o	2.65
126.00	GO - 10%G - 90%o	1.77
30.00	GO - 5%G - 95%o	0.42
0.00	850' GIP	0.00

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

32-3s-26w Decatur KS

Ritter A #1-32

Job Ticket: 58274

DST#: 3

Test Start: 2014.07.16 @ 23:20:00

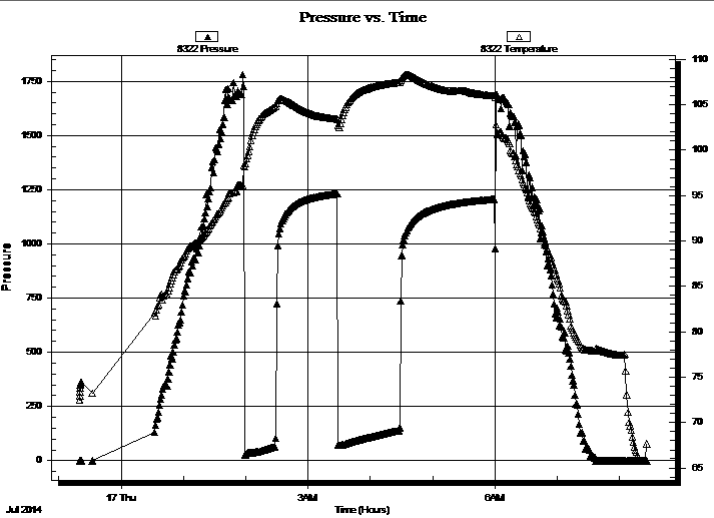
GENERAL INFORMATION:

Formation: **LKC "A"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 01:58:30 Tester: Ryan Nichols
 Time Test Ended: 08:26:40 Unit No: 78
Interval: 3522.00 ft (KB) To 3539.00 ft (KB) (TVD)
 Reference Elevations: 2536.00 ft (KB)
 Total Depth: 3539.00 ft (KB) (TVD) 2531.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 3523.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.16 End Date: 2014.07.17 Last Calib.: 2014.07.17
 Start Time: 23:20:01 End Time: 08:26:40 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 IF - 1/2" blow built to BoB @ 6 mins
 60 ISI - Surface blow built to 6 1/2"
 60 FF - Surface blow built to BoB @ 8 mins
 90 FSI - Surface blow built to BoB @ 33 mins



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM - 20%G - 25%o - 55%M	0.30
189.00	GO - 20%G - 80%o	2.65
126.00	GO - 10%G - 90%o	1.77
30.00	GO - 5%G - 95%o	0.42
0.00	850' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58274

DST#: 3

ATTN: Larry Nicholson

Test Start: 2014.07.16 @ 23:20:00

Tool Information

Drill Pipe:	Length: 3456.00 ft	Diameter: 3.80 inches	Volume: 48.48 bbl	Tool Weight: 2500.00 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 48.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3522.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: went through a bridge 20' off bottom

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3496.00	
Shut In Tool	5.00			3501.00	
Hydraulic tool	5.00			3506.00	
Jars	5.00			3511.00	
Safety Joint	2.00			3513.00	
Packer	5.00			3518.00	27.00 Bottom Of Top Packer
Packer	4.00			3522.00	
Stubb	1.00			3523.00	
Recorder	0.00	6752	Inside	3523.00	
Recorder	0.00	8322	Outside	3523.00	
Perforations	13.00			3536.00	
Bullnose	3.00			3539.00	17.00 Bottom Packers & Anchor

Total Tool Length: 44.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58274

DST#: 3

ATTN: Larry Nicholson

Test Start: 2014.07.16 @ 23:20:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 6.39 in³
Resistivity: ohm.m
Salinity: 2200.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 33.6 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

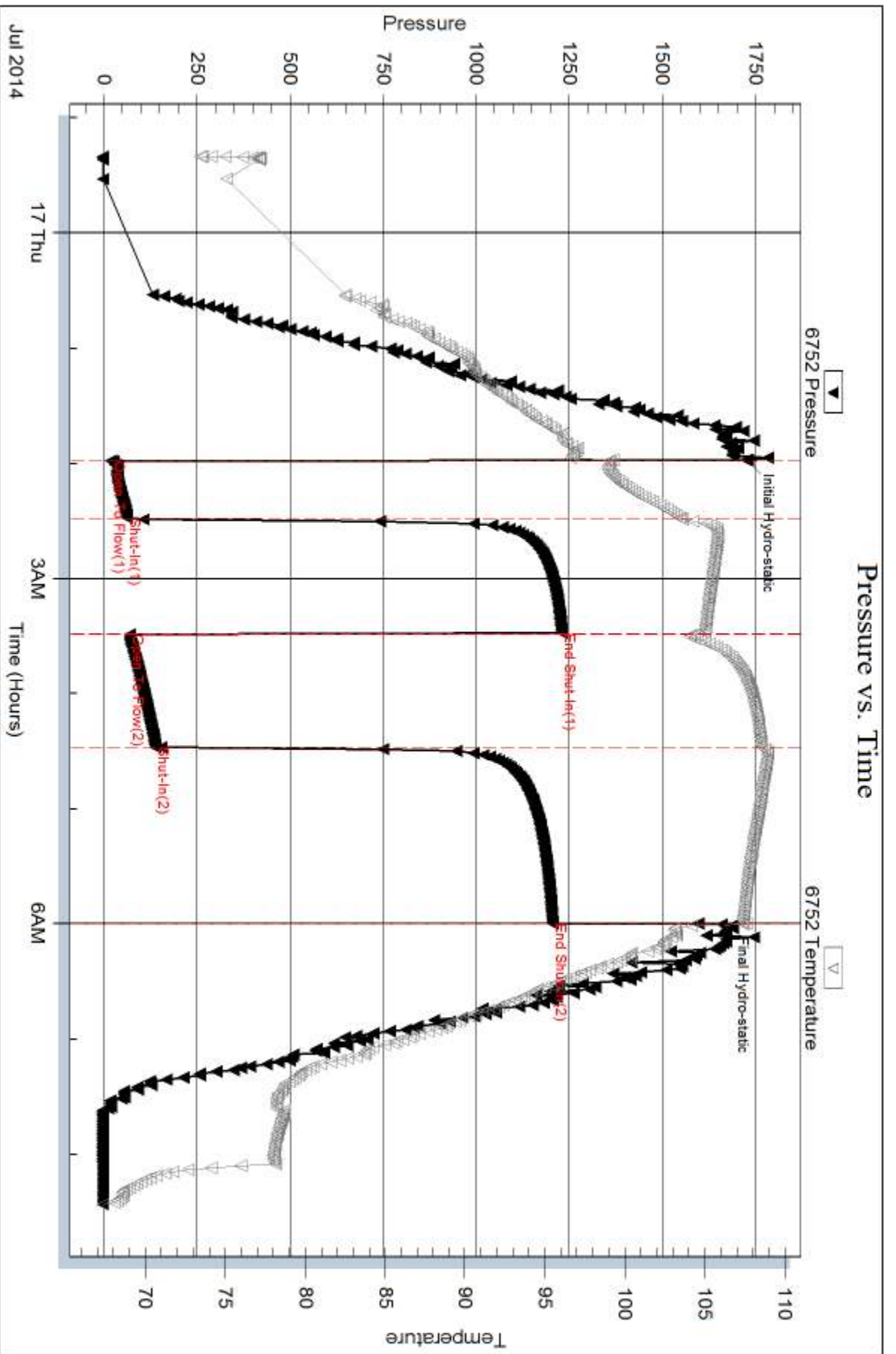
Length ft	Description	Volume bbl
60.00	GOCM - 20%G - 25%o - 55%M	0.295
189.00	GO - 20%G - 80%o	2.651
126.00	GO - 10%G - 90%o	1.767
30.00	GO - 5%G - 95%o	0.421
0.00	850' GIP	0.000

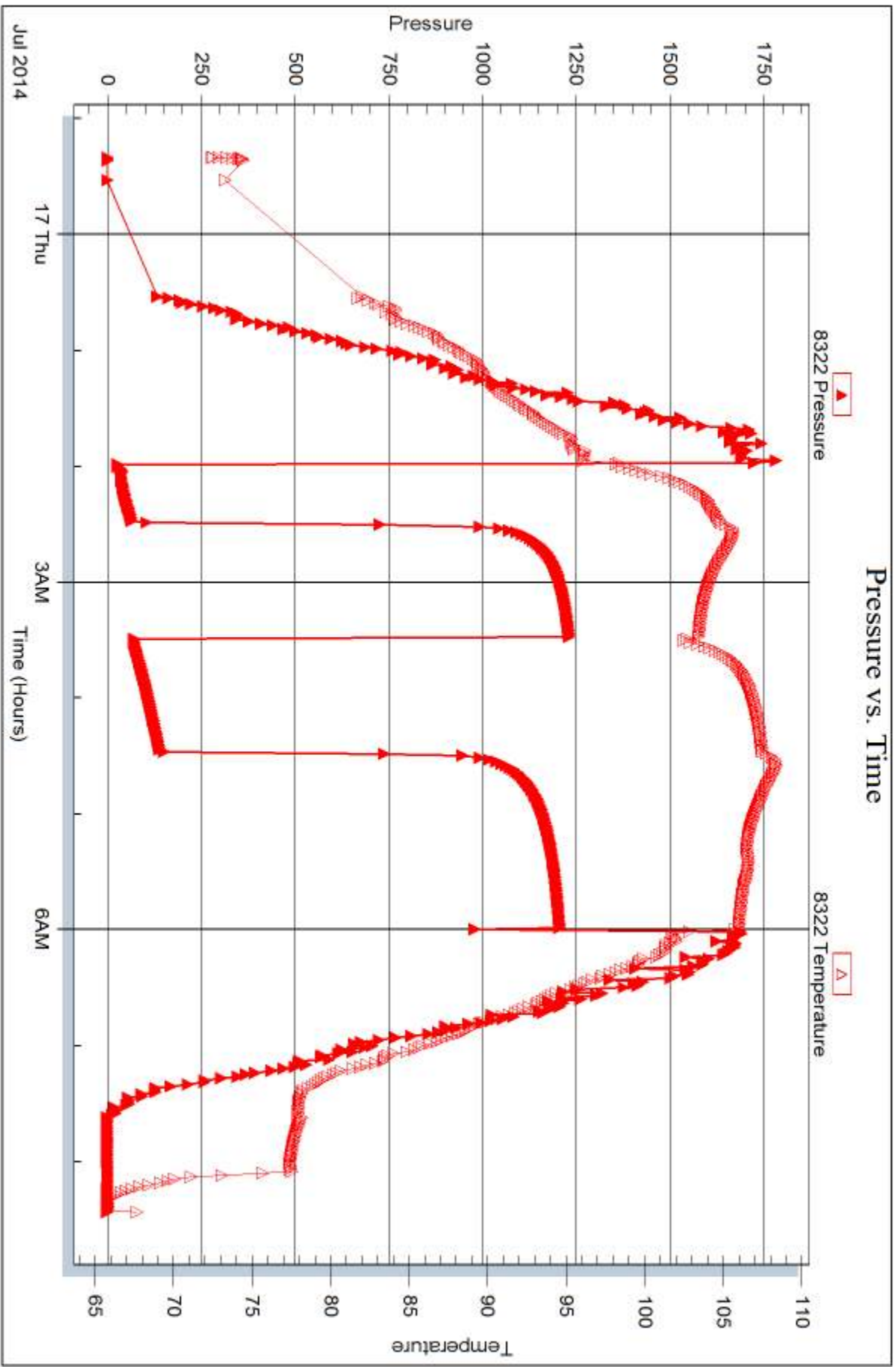
Total Length: 405.00 ft Total Volume: 5.134 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: OIL API = 34 @ 64 DEG F = 33.6 COR 60 DEG F







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Ritter A #1-32

32-3s-26w Decatur KS

Start Date: 2014.07.17 @ 14:26:00

End Date: 2014.07.17 @ 22:18:00

Job Ticket #: 58275 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.21 @ 09:34:31



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58275

DST#: 4

ATTN: Larry Nicholson

Test Start: 2014.07.17 @ 14:26:00

GENERAL INFORMATION:

Formation: **LKC " B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:21:30

Time Test Ended: 22:18:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 3540.00 ft (KB) To 3567.00 ft (KB) (TVD)

Reference Elevations: 2536.00 ft (KB)

Total Depth: 3567.00 ft (KB) (TVD)

2531.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 59.88 psig @ 3541.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.17

End Date: 2014.07.17

Last Calib.: 2014.07.17

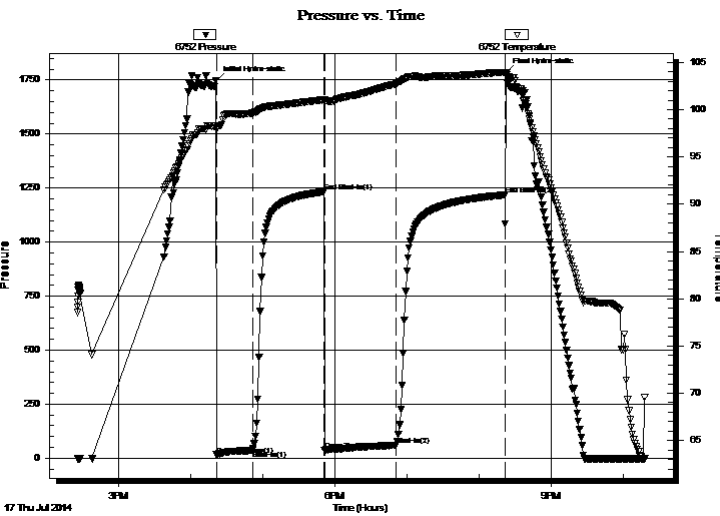
Start Time: 14:26:01

End Time: 22:18:00

Time On Btm: 2014.07.17 @ 16:21:20

Time Off Btm: 2014.07.17 @ 20:23:00

TEST COMMENT: 30 IF - 1/4" blow built to 9 1/2"
60 ISI - Surface blow started @ 1 min
60 FF - Surface blow built to BoB @ 24 mins
90 FSI - Surface blow started @ 1 min died @ 67 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1745.59	98.25	Initial Hydro-static
1	15.57	97.92	Open To Flow (1)
31	36.24	99.64	Shut-In(1)
90	1232.72	101.05	End Shut-In(1)
91	38.38	100.99	Open To Flow (2)
150	59.88	102.73	Shut-In(2)
241	1218.27	103.94	End Shut-In(2)
242	1785.20	103.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GOCM - 5%G - 20%o - 75%M	0.34
60.00	GO - 10%G - 90%o	0.84
0.00	315' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58275 **DST#: 4**

ATTN: Larry Nicholson

Test Start: 2014.07.17 @ 14:26:00

GENERAL INFORMATION:

Formation: **LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:21:30

Time Test Ended: 22:18:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: **3540.00 ft (KB) To 3567.00 ft (KB) (TVD)**

Total Depth: 3567.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2536.00 ft (KB)

2531.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 3541.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.17

End Date: 2014.07.17

Last Calib.: 2014.07.17

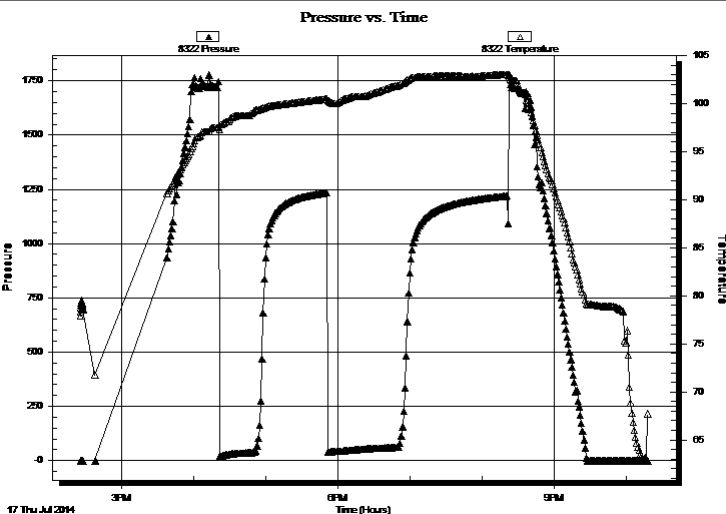
Start Time: 14:26:01

End Time: 22:18:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF - 1/4" blow built to 9 1/2"
60 ISI - Surface blow started @ 1 min
60 FF - Surface blow built to BoB @ 24 mins
90 FSI - Surface blow started @ 1 min died @ 67 mins



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GOCM - 5%G - 20%o - 75%M	0.34
60.00	GO - 10%G - 90%o	0.84
0.00	315' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58275

DST#: 4

ATTN: Larry Nicholson

Test Start: 2014.07.17 @ 14:26:00

Tool Information

Drill Pipe:	Length: 3487.00 ft	Diameter: 3.80 inches	Volume: 48.91 bbl	Tool Weight:	2500.00 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	56000.00 lb
			<u>Total Volume: 49.21 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3540.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	54.00 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			3514.00	
Shut In Tool	5.00			3519.00	
Hydraulic tool	5.00			3524.00	
Jars	5.00			3529.00	
Safety Joint	2.00			3531.00	
Packer	5.00			3536.00	27.00 Bottom Of Top Packer
Packer	4.00			3540.00	
Stubb	1.00			3541.00	
Recorder	0.00	6752	Inside	3541.00	
Recorder	0.00	8322	Outside	3541.00	
Perforations	23.00			3564.00	
Bullnose	3.00			3567.00	27.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 58275

DST#: 4

ATTN: Larry Nicholson

Test Start: 2014.07.17 @ 14:26:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 6.79 in³
Resistivity: ohm.m
Salinity: 1900.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 35 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	GOCM - 5%G - 20%o - 75%M	0.337
60.00	GO - 10%G - 90%o	0.842
0.00	315' GIP	0.000

Total Length: 123.00 ft Total Volume: 1.179 bbl

Num Fluid Samples: 0

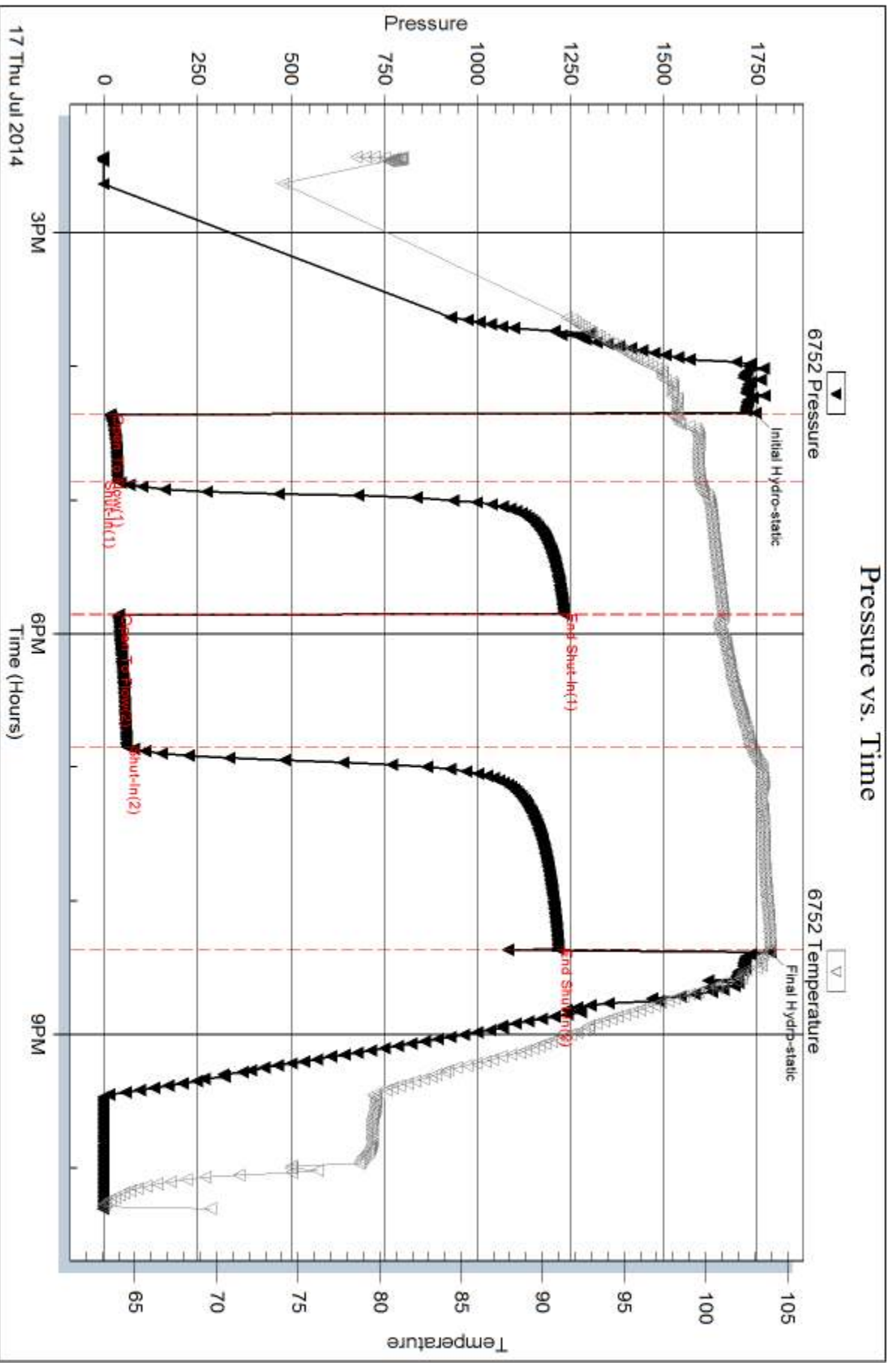
Num Gas Bombs: 0

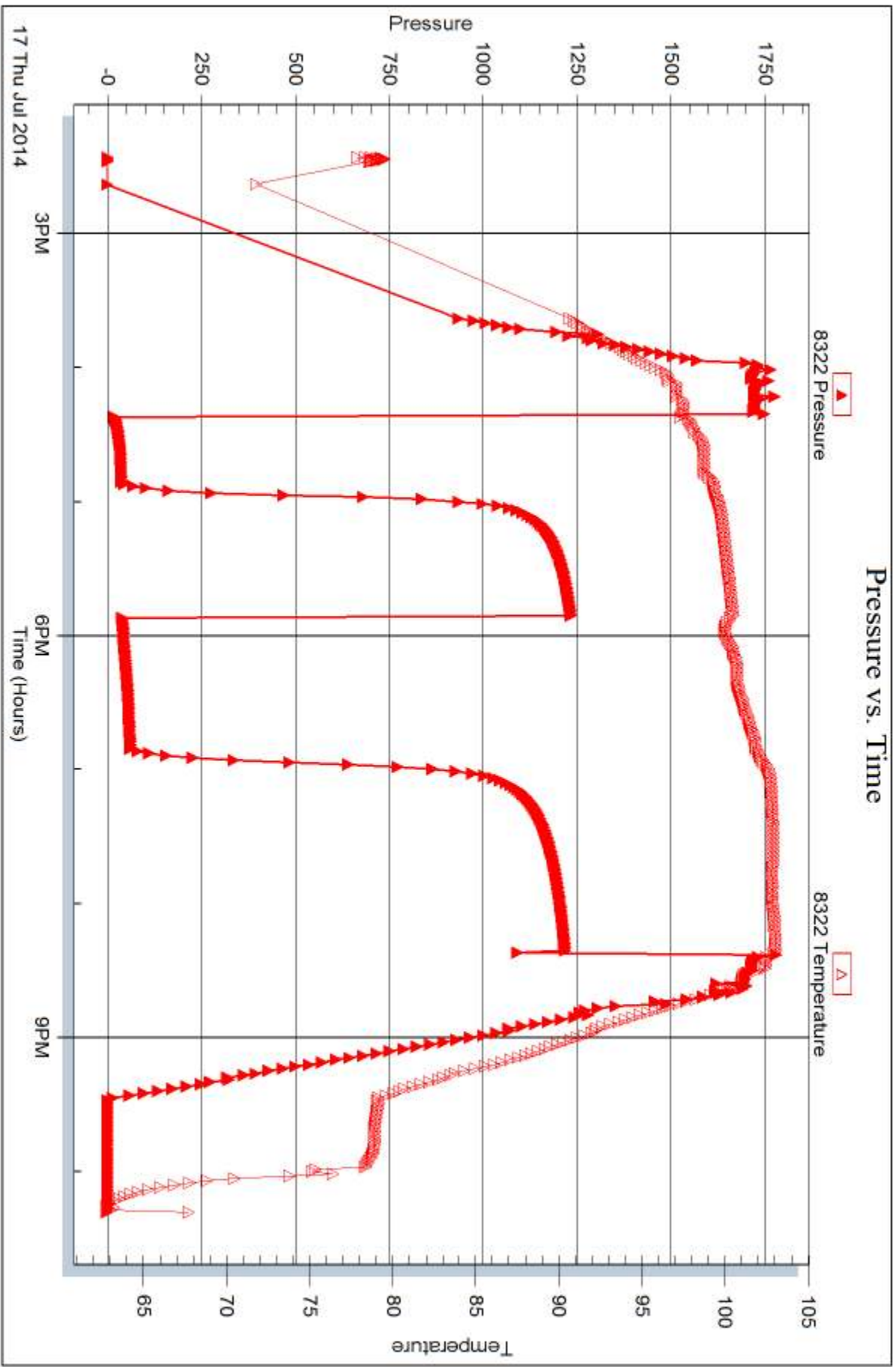
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 36 @ 70 DEG F = 35 COR 60 DEG F







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Ritter A #1-32

32-3s-26w Decatur KS

Start Date: 2014.07.18 @ 11:39:00

End Date: 2014.07.18 @ 19:25:30

Job Ticket #: 28276 DST #: 5

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

Printed: 2014.07.21 @ 09:32:45



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 28276

DST#: 5

ATTN: Larry Nicholson

Test Start: 2014.07.18 @ 11:39:00

GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:34:00

Time Test Ended: 19:25:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 3627.00 ft (KB) To 3655.00 ft (KB) (TVD)

Reference Elevations: 2536.00 ft (KB)

Total Depth: 3655.00 ft (KB) (TVD)

2531.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 50.74 psig @ 3628.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.18

End Date:

2014.07.18

Last Calib.:

2014.07.18

Start Time: 11:39:01

End Time:

19:25:30

Time On Btm:

2014.07.18 @ 13:33:30

Time Off Btm:

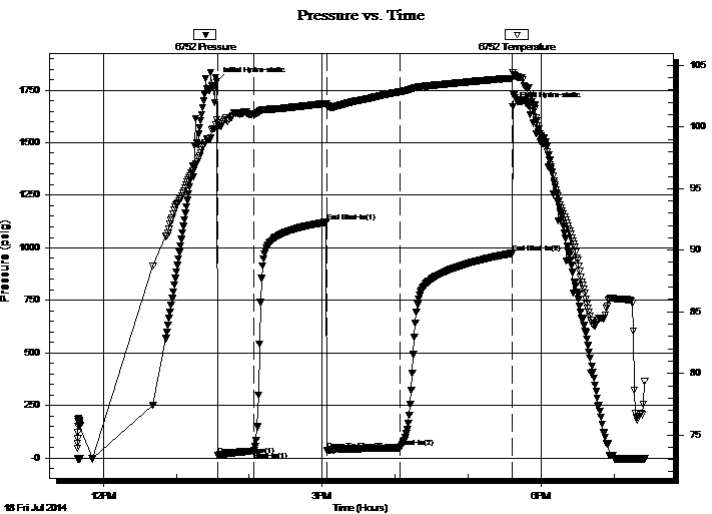
2014.07.18 @ 17:36:39

TEST COMMENT: 30 IF - Surface blow built to 2"

60 ISI - No return

60 FF - Surface blow built to 2 1/4"

90 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.93	100.63	Initial Hydro-static
1	14.75	100.33	Open To Flow (1)
30	34.66	101.03	Shut-In(1)
91	1122.14	101.92	End Shut-In(1)
91	37.86	101.70	Open To Flow (2)
151	50.74	102.85	Shut-In(2)
243	974.67	103.96	End Shut-In(2)
244	1673.33	104.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OWCM - 10%o - 40%W - 50%M	0.30
15.00	OCM - 13%o - 87%M	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

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 28276

DST#: 5

ATTN: Larry Nicholson

Test Start: 2014.07.18 @ 11:39:00

Tool Information

Drill Pipe:	Length: 3551.00 ft	Diameter: 3.80 inches	Volume: 49.81 bbl	Tool Weight: 2500.00 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 50.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3627.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	55.00 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			3601.00	
Shut In Tool	5.00			3606.00	
Hydraulic tool	5.00			3611.00	
Jars	5.00			3616.00	
Safety Joint	2.00			3618.00	
Packer	5.00			3623.00	27.00 Bottom Of Top Packer
Packer	4.00			3627.00	
Stubb	1.00			3628.00	
Recorder	0.00	6752	Inside	3628.00	
Recorder	0.00	8322	Outside	3628.00	
Perforations	24.00			3652.00	
Bullnose	3.00			3655.00	28.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

32-3s-26w Decatur KS

PO Box 8037
Wichita KS 67208

Ritter A #1-32

Job Ticket: 28276

DST#: 5

ATTN: Larry Nicholson

Test Start: 2014.07.18 @ 11:39:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 62.00 sec/qt
Water Loss: 6.39 in³
Resistivity: ohm.m
Salinity: 1700.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OWCM - 10%o - 40%W - 50%M	0.295
15.00	OCM - 13%o - 87%M	0.210

Total Length: 75.00 ft Total Volume: 0.505 bbl

Num Fluid Samples: 0

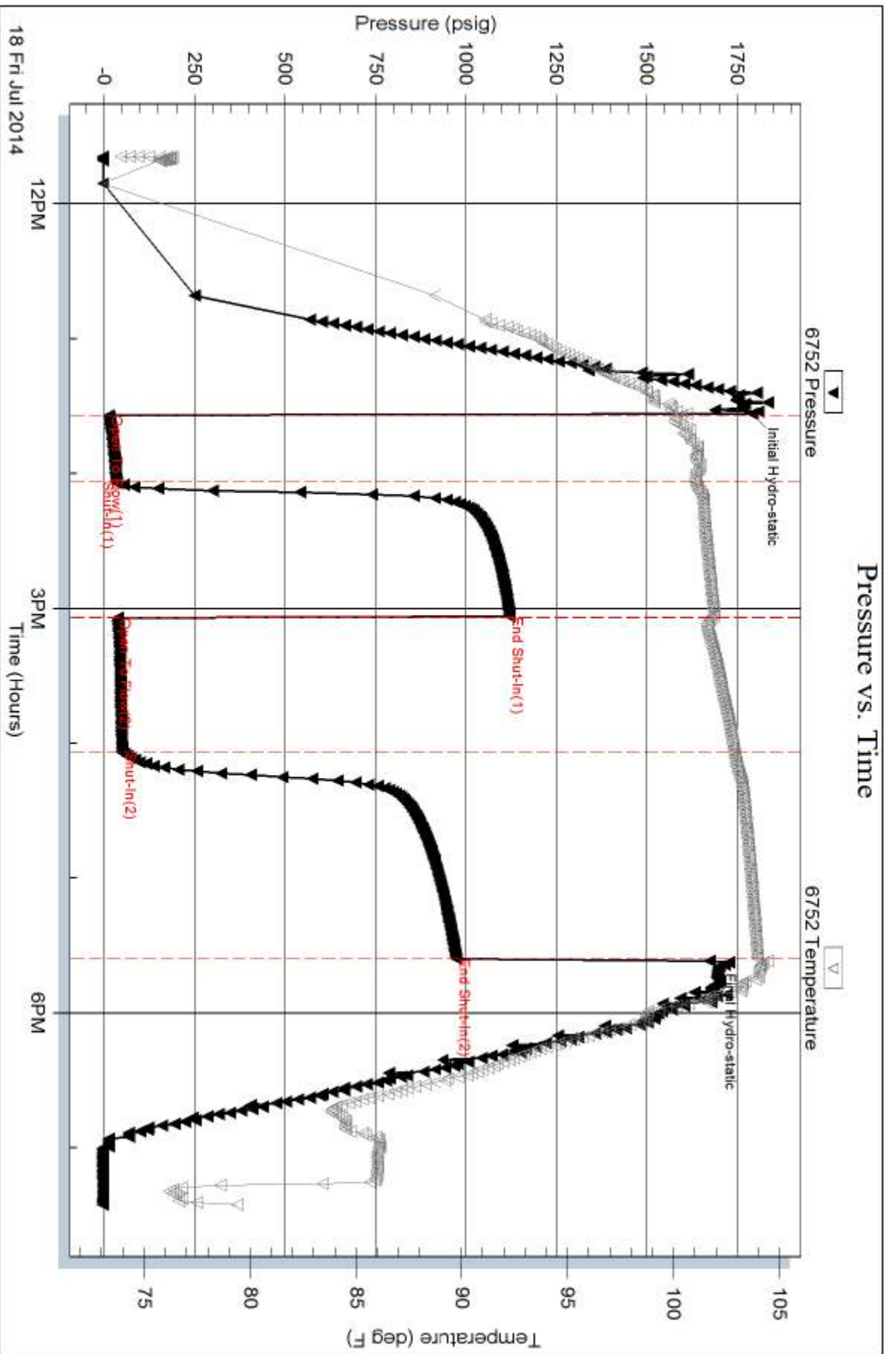
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

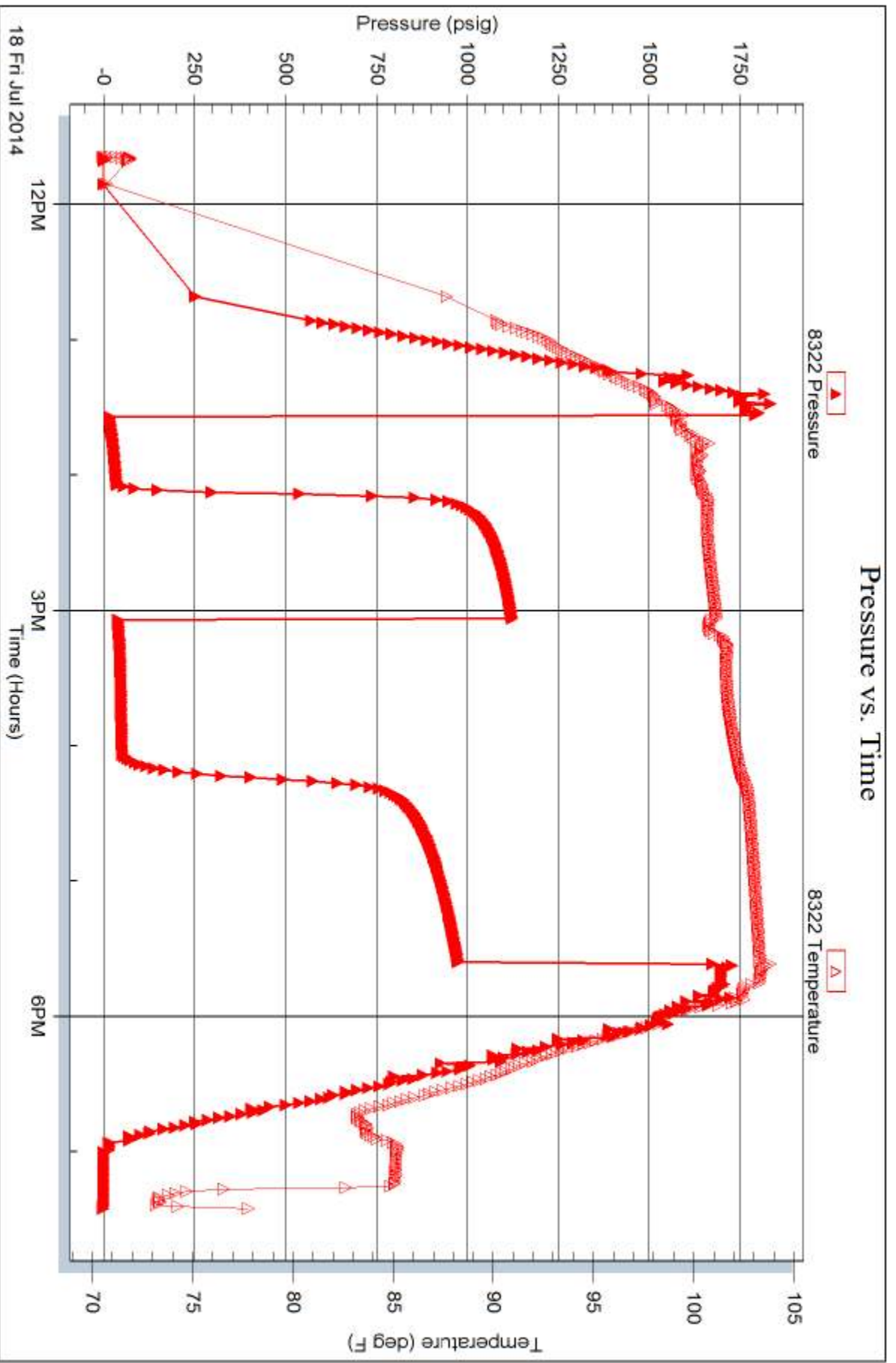


Serial #: 8322

Outside Cobalt Energy LLC

Ritter A #1-32

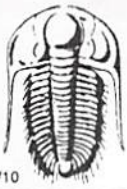
DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 28276

Printed: 2014.07.21 @ 09:32:46



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58272

Well Name & No. Ritter A # 1-32 Test No. 1 Date 7/15/14
 Company Cobalt Energy Elevation 2536 KB 2531 GL
 Address 115 S. Bellmont #12 P.O. Box 9037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Martin # 7
 Location: Sec. 32 Twp. 35 Rge. 26W Co. Decatur State KS

Interval Tested 3376 - 3406 Zone Tested Topeka
 Anchor Length 30' Drill Pipe Run 3299' Mud Wt. 9.0
 Top Packer Depth 3371 Drill Collars Run 60' Vis 52
 Bottom Packer Depth 3376 Wt. Pipe Run 0' WL 6.8
 Total Depth 3406 Chlorides 1800 ppm System LCM 2
 Blow Description IF - 1/2" blow built to BoB @ 7 mins
ISI - No return
FF - Surface blow built to BoB @ 8 mins
FST - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
<u>441'</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	
<u>60'</u>	<u>MCW</u>		<u>65</u>	<u>35</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 531 BHT 105° Gravity — API RW .115 @ 91.6 °F Chlorides 48000 ppm
 (A) Initial Hydrostatic 1664 Test 1150 T-On Location 09:45
 (B) First Initial Flow 27 Jars 250 T-Started 10:09
 (C) First Final Flow 164 Safety Joint 75 T-Open 11:58
 (D) Initial Shut-In 1153 Circ Sub NC T-Pulled 14:28
 (E) Second Initial Flow 170 Hourly Standby _____ T-Out 16:27
 (F) Second Final Flow 277 Mileage 40 RT 62 Comments _____
 (G) Final Shut-In 1098 Sampler _____
 (H) Final Hydrostatic 1639 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Initial Open 30 Day Standby _____ Sub Total 0
 Initial Shut-In 60 Accessibility _____ Total 1787.00
 Final Flow 30 Sub Total 1787 MP/DST Disc't _____
 Final Shut-In 30

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58273**

4/10

Well Name & No. Ritter A # 1-32 Test No. 2 Date 7/16/14
 Company Cobalt Energy LLC Elevation 2536 KB 2531 GL
 Address 115 S. Bellmont #12 P.O. Box 8037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Martin # 7
 Location: Sec. 32 Twp. 35 Rge. 26W Co. Decatur State KS

Interval Tested 3488 - 3524 Zone Tested Toronto
 Anchor Length 36' Drill Pipe Run 3424' Mud Wt. 9.2
 Top Packer Depth 3483 Drill Collars Run 60' Vis 49
 Bottom Packer Depth 3488 Wt. Pipe Run 0' WL 6.4
 Total Depth 3524 Chlorides 2200 ppm System LCM 2

Blow Description IF - 1/4" blow built to 6 1/2"
ISI - No return
FF - Surface blow ^{swirl} built to 9 1/2"
FSL - No return

Rec	Feet of	%gas	%oil	%water	%muc
<u>4</u>	<u>MCW</u>			<u>50%</u>	<u>50%</u>
<u>63'</u>	<u>MCW</u>			<u>80%</u>	<u>20%</u>
<u>63'</u>	<u>MCW</u>			<u>90%</u>	<u>10%</u>
<u>60'</u>	<u>WCM</u>			<u>45%</u>	<u>55%</u>
Rec	Feet of	%gas	%oil	%water	%muc

Rec Total 190' BHT 104° Gravity — API RW .138 @ 61° F Chlorides 78,000 ppm

(A) Initial Hydrostatic 1745 Test 1150 T-On Location 09:30
 (B) First Initial Flow 17 Jars 250 T-Started 09:15
 (C) First Final Flow 59 Safety Joint 75 T-Open 10:56
 (D) Initial Shut-In 1220 Circ Sub NC T-Pulled 14:56
 (E) Second Initial Flow 63 Hourly Standby _____ T-Out 16:48
 (F) Second Final Flow 108 Mileage 40 RT ⁶² Comments _____
 (G) Final Shut-In 1204 Sampler _____
 (H) Final Hydrostatic 1616 Straddle _____

Initial Open 30 Shale Packer 250 Ruined Shale Packer _____
 Initial Shut-In 60 Extra Packer _____ Ruined Packer _____
 Final Flow 60 Extra Recorder _____ Extra Copies _____
 Final Shut-In 90 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1787.00
 Sub Total 1787 MP/DST Disc't _____

Approved By _____ Our Representative Larry Nicholson

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58274

Well Name & No. Ritter A #1-32 Test No. 3 Date 7/16/14
 Company Cobalt Energy LLC Elevation 2536 KB 2531 GL
 Address 115 S. Bellmont #12 P.O. Box 8037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Martin #7
 Location: Sec. 32 Twp. 35 Rge. 26W Co. Decatur State K5

Interval Tested 3522 - 3539 Zone Tested Lansing A
 Anchor Length 17' Drill Pipe Run 3456' Mud Wt. 9.2
 Top Packer Depth 3517 Drill Collars Run 20' Vis 48
 Bottom Packer Depth 3522 Wt. Pipe Run 0' WL 6.4
 Total Depth 3539 Chlorides 2200 ppm System LCM 2

Blow Description IF - 1/2" blow built to BoB @ 6 mins
ISI - Surface blow built to 6 1/2"
FF - Surface blow built to BoB @ 8 mins
FSL - Surface blow built to BoB @ 33 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>30'</u>	<u>60</u>	<u>5</u>	<u>95</u>		
<u>126'</u>	<u>60</u>	<u>10</u>	<u>90</u>		
<u>189'</u>	<u>60</u>	<u>20</u>	<u>80</u>		
<u>60'</u>	<u>60CM</u>	<u>20</u>	<u>25</u>		<u>55</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 405' BHT 107° Gravity 33.6 API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>1728</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>22:45</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:20</u>
(C) First Final Flow <u>63</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>01:58</u>
(D) Initial Shut-In <u>1230</u>	<input checked="" type="checkbox"/> Circ Sub <u>NL</u>	T-Pulled <u>05:58</u>
(E) Second Initial Flow <u>71</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>08:26</u>
(F) Second Final Flow <u>138</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT</u> 62	Comments <u>850' GIP</u>
(G) Final Shut-In <u>1206</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1660</u>	<input type="checkbox"/> Straddle	

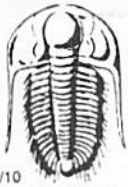
Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 96

Shale Packer 250
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1787

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1787.00
 MP/DST Disc't

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58275**

Well Name & No. Kitter A #1-32 Test No. 4 Date 7/17/14
 Company Colbalt Energy LLC Elevation 2536 KB 2531 GL
 Address 115 S. Bellmont #12 P.O. Box 8037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin #7
 Location: Sec. 32 Twp. 35 Rge. 26 W Co. Decatur State KS

Interval Tested 3540 - 3567 Zone Tested Lansing "B"
 Anchor Length 27' Drill Pipe Run 3487' Mud Wt. 9.1
 Top Packer Depth 3535 Drill Collars Run 60' Vis 48
 Bottom Packer Depth 3540 Wt. Pipe Run 0' WL 6.8
 Total Depth 3567 Chlorides 1900 ppm System LCM 2

Blow Description IF - 1/4" blow built to 9 1/2"
ISI - Surface blow started @ 1 min
FF - Surface blow built to BoB @ 24 mins
FSI - Surface blow started @ 1 min died @ 67 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>60</u>	<u>10</u>	<u>90</u>		
<u>63'</u>	<u>60CM</u>	<u>5</u>	<u>20</u>		<u>75</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 123' BHT 104° Gravity 35COR 60° API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic	<u>1746</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>14:00</u>
(B) First Initial Flow	<u>16</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>14:26</u>
(C) First Final Flow	<u>36</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>16:21</u>
(D) Initial Shut-In	<u>1233</u>	<input checked="" type="checkbox"/> Circ Sub	<u>NC</u>	T-Pulled	<u>20:21</u>
(E) Second Initial Flow	<u>38</u>	<input checked="" type="checkbox"/> Hourly Standby		T-Out	<u>22:18</u>
(F) Second Final Flow	<u>60</u>	<input checked="" type="checkbox"/> Mileage	<u>40 RT 62</u>	Comments	
(G) Final Shut-In	<u>1218</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1785</u>	<input type="checkbox"/> Straddle			

Initial Open 30
 Initial Shut-In 60
 Final Flow 80
 Final Shut-In 90

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1787.00
 MP/DST Disc't —

Sub Total 1787.00

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58276

4/10

Well Name & No. Ritter A #1-32 Test No. 5 Date 7/18/14
 Company Colbalt Energy LLC Elevation 2536 KB 2531 GL
 Address 115 S. Bellmont #12 P.O. Box 8037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin # 7
 Location: Sec. 32 Twp. 35 Rge. 26W Co. Decatur State KS

Interval Tested 3627-3655 Zone Tested Lansing "H"
 Anchor Length 28' Drill Pipe Run 3551 Mud Wt. 9.1
 Top Packer Depth 3622 Drill Collars Run 60' Vis 62
 Bottom Packer Depth 3627 Wt. Pipe Run 0' WL 6.4
 Total Depth 3655 Chlorides 1700 ppm System LCM 1
 Blow Description IF - Surface blow built to 2"
ISI - No return
FF - Surface blow built to 2 1/4"
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15'</u>	<u>OCM</u>	<u>13</u>		<u>87</u>	
<u>60'</u>	<u>OWCM</u>	<u>10</u>	<u>40</u>	<u>50</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 75' BHT 104° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>1792</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>11:00</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:39</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:34</u>
(D) Initial Shut-In <u>1122</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>17:34</u>
(E) Second Initial Flow <u>38</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>19:25</u>
(F) Second Final Flow <u>51</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT</u> 124	Comments <u>Dirty water</u>
(G) Final Shut-In <u>975</u>	<input type="checkbox"/> Sampler	<u>loaded tools @</u>
(H) Final Hydrostatic <u>1673</u>	<input type="checkbox"/> Straddle	<u>03:00 on 7/20/14</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
Final Shut-In <u>90</u>	<input checked="" type="checkbox"/> Day Standby <u>1d 7.5h</u>	Total <u>2649.00</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1849.00</u>	

Approved By _____ Our Representative [Signature]

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ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Oakley

DATE <u>7-12-14</u>	SEC <u>32</u>	TWP. <u>3</u>	RANGE <u>26</u>	CALLED OUT	ON LOCATION <u>7:00 PM</u>	JOB START <u>7:20 PM</u>	JOB FINISH <u>9:00 PM</u>
LEASE <u>Ritter A</u>	WELL # <u>1-32</u>	LOCATION <u>Jennings S.N. 14E</u>	COUNTY <u>Decatur</u>	STATE <u>Ks</u>			
OLD OR NEW (Circle one) <u>NEW</u>		<u>Sinto</u>					

CONTRACTOR Murfin 7
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 216'
 CASING SIZE 8 5/8 DEPTH 216'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT 12.80 BBL
 EQUIPMENT

OWNER same
 CEMENT
 AMOUNT ORDERED 200 sks com
3600
 COMMON 200 sks @ 17.90 3580.00
 POZMIX @
 GEL @
 CHLORIDE 564 @ 1.10 620.40
 ASC @
 @
 @
 @
 Manual total 4200.50
(810.00 / 2 @ .5)
 @
 @
 @
 @
 HANDLING 210 c/yft @ 2.48 520.80
 MILEAGE 2.25 to pit @ 9.18/mi 20.65
 TOTAL

PUMP TRUCK CEMENTER Andrew Borstman
 # 423-281 HELPER Larone Wentz
 BULK TRUCK
 # 323 DRIVER Wayne Messalle
 BULK TRUCK
 # DRIVER

REMARKS:

Cement did circulate
10 BBL TO PIT
Thank you
 CHARGE TO: Cobalt Energy
 STREET
 CITY STATE ZIP

SERVICE

DEPTH OF JOB 216'
 PUMP TRUCK CHARGE 1512.25
 EXTRA FOOTAGE @
 MILEAGE 60 miles @ 2.90 174.00
 MANIFOLD head @ 2.75 275.00
Lift vehicle @ 4.40 264.00
 @
 (926.25 / 20%) TOTAL 4631.25

PLUG & FLOAT EQUIPMENT

@
 @
 @
 @
 @
 TOTAL

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 Fred Williams
 SIGNATURE [Signature]

SALES TAX (If Any)
 TOTAL CHARGES 8,831.65
 DISCOUNT 1,765.33 / 20% IF PAID IN 30 DAYS
7,066.32 Net



SWIFT
Services, Inc.

CHARGE TO: **COBALT ENERGY**
ADDRESS
CITY, STATE, ZIP CODE

TICKET 26511

PAGE 1 OF 2

1. SERVICE LOCATION NESS CITY, KS	WELL/PROJECT NO.	LEASE	COUNTY/TARRANT	STATE	CITY	DATE	OWNER
2. NESS CITY, KS		RITTER A 132	DECATUR	KS	JENNINGS, KS	2015 July 14	
3. TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	WELL LOCATION	
	MURKIN DRILLING RIG # 7					SN 1E, STU 10	
4. REFERRAL LOCATION	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.			
	DIL	DEVELOPMENT	5 1/2 LONESTRING				
INVOICE INSTRUCTIONS							

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE # 115					6.00	720.00
579					PUMP CHARGE					2000.00	2100.00
402					CENTRAVERS					770.00	770.00
403					CEMENT BASKETS					300.00	1000.00
408					DV TOOL & PLUG SET					3550.00	3550.00
417					DV LATCH DOWN PLUG & BATTLE					200.00	200.00
407					INSERT FLOAT SHOE W/PULL					375.00	375.00
281					MUD FLUVA					1.25	1025.00
221					ALQUID RCL					25.00	75.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY**, and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS
DATE SIGNED **2015 July 14** TIME SIGNED **1530**
 A.M. P.M.

REMIT PAYMENT TO:
SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	8845.00
WE UNDERSTOOD AND MET YOUR NEEDS?				2	12308.00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Subtotal	21153.00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				DECATUR TAX 9%	1,071.00
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	22,224.00

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
SWIFT OPERATOR *[Signature]* APPROVAL *[Signature]*
Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

CUSTOMER: OILBAIT ENERGY

WELL: RITTER A1-32

SHEET: 2050414 PAGE: 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WEIGHT		UNIT PRICE		AMOUNT
		LOG	ACCT	ID			QTY	U/M	QTY	U/M	
276						ELMERE SALT	110	lbs	2.50		275.00
283						900LBS	9	SK	20		180.00
284						DAISEAL	8	SK	35.00		280.00
292						HEAD 302	100	lbs	8.00		800.00
290						D-AIR	4	gal	42.00		168.00
325						STANDARD EA-2	175	SK	14.00		2450.00
330						SMD CEMENT	250	SK	18.50		4625.00
581						SERVICE CHARGE			2.00		8.50
583						MILEAGE CHARGE			1.00		2592.10
<p>TON MILES: 2592.10</p> <p>LOADED MILES: 120</p> <p>TOTAL MILES: 2712.10</p>											

CONTINUATION TOTAL: 12308.10

JOB LOG

SWIFT Services, Inc.

DATE 20 July 14 PAGE NO.

CUSTOMER COLBALT ENERGY WELL NO. LEASE RITTER A 1-32 JOB TYPE 5 1/2 LONGSTRING TICKET NO. 26511

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0700							DN LOCATION
	0930							START PIPE 5 1/2 - 15.5" RID @ 4000 SET @ 3980 SHOE JT. 42 CENTRALIZERS 2, 4, 6, 8, 10, 11, 13, 15, 17, 44 BASKETS 7, 45 DV # 45 @ 2105
	1105							DROP BALL CIRCULATE
	1205	6	12				300	Pump 500 gal MUD FLUSH
		6	20				300	Pump 20 BK KCL FLUSH
	1213		7.5					MIX 125 PLUG RH-30sx MH 20sx
	1216	4	30					MIX 125sx EA-2
	1230							WASH OUT Pump & LINES
	1234	6						START DISPLACING PLUG
	1250	0	95				1500	PLUG DOWN - LATCAPLUG IN
	1251							RELEASE PSI - DRY
	1252							DROP DV OPENING TOOL
	1304						1300	OPEN DV.
	1305							CIRCULATE
	1408	6	10				100	Pump 10 BK KCL FLUSH
	1413	6	139					MIX 250sx SMD
	1435							WASH OUT Pump & LINES
	1439	6						START DISPLACING CLOSING PLUG
	1448	0	50				1500	PLUG DOWN CLOSE DV
	1450							RELEASE PSI - DRY
								CIRCULATE 10sx TO FIT
	1453							WASH TRUCK
	1530							JOB COMPLETE
								THANKS #115
								JASON DOUG ROBS JOHN