

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 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)</i> <i>(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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Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	Ritter "A" 2-32
Doc ID	1312146

All Electric Logs Run

Dual Induction
Neutron-Density
Microlog
Sonic



CONSOLIDATED
Oil Well Services, LLC

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

6138

6042

Invoice # 2025

TICKET NUMBER 51497
LOCATION Oakley, KS
FOREMAN Jerry Y

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-5-16	2180	Ritter "A" 2-32	32	35	26w	Decatur
CUSTOMER			KS			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			731	Corey D		
			566	Rob S		
			555			
STATE			ZIP CODE			

Jennings
SN. 12
E Sinto

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 220 CASING SIZE & WEIGHT 8 5/8 23#
 CASING DEPTH 219 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL 1.24 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 12 1/2 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Silly meeting - rig up on Mar 27 7 run centralizers on 1 & 4 run casing to bottom break circulation then mix 165 sks surface blend IT was up - displace with 12 1/2 bbl fresh water & shots in circulated approx 4 bbl to pt

Cement did circulate

Thank you
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150 ⁰⁰	1150 ⁰⁰
CE0002	40	MILEAGE	7 ¹⁵	286 ⁰⁰
CE0711	7.76	ton mileage delivery min	660 ⁰⁰	660 ⁰⁰
CE5871	165 sks	surface blend IT	23 ⁰⁰	3795 ⁰⁰
CP8556	2	8 5/8 centralizers	110 ⁰⁰	220 ⁰⁰
			subtotal	6111 ⁰⁰
			-458	2749 ⁹⁵
			subtotal	3361 ⁰⁵
			SALES TAX	1165.62
			ESTIMATED TOTAL	3526.67

Revin 3737

AUTHORIZATION Kelly Wilson 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.



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Ritter A #2-32

32-3s-26w Decatur,KS

Start Date: 2016.07.08 @ 04:31:00

End Date: 2016.07.08 @ 12:07:00

Job Ticket #: 64937 DST #: 1

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

Printed: 2016.07.13 @ 08:46:45



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur,KS

PO Box 8037
Wichita KS 67208

Ritter A #2-32

Job Ticket: 64937

DST#: 1

ATTN: Larry Nicholson

Test Start: 2016.07.08 @ 04:31:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:27:30

Time Test Ended: 12:07:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Interval: 3382.00 ft (KB) To 3408.00 ft (KB) (TVD)

Reference Elevations: 2568.00 ft (KB)

Total Depth: 3408.00 ft (KB) (TVD)

2563.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press@RunDepth: 1292.73 psig @ 3385.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.08

End Date:

2016.07.08

Last Calib.: 2016.07.08

Start Time: 04:31:02

End Time:

12:06:30

Time On Btm: 2016.07.08 @ 06:26:45

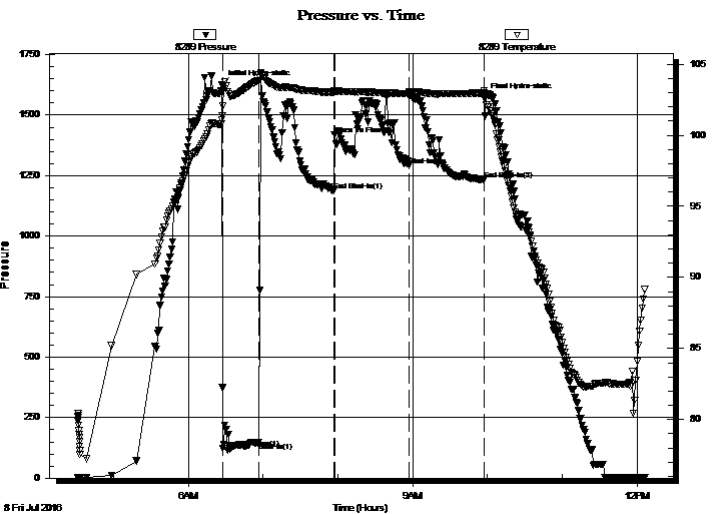
Time Off Btm: 2016.07.08 @ 09:57:15

TEST COMMENT: 30-IFP- BOB in 21min

60-ISIP- No Blow

60-FFP- No Blow

60-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1626.83	101.11	Initial Hydro-static
1	123.68	102.04	Open To Flow (1)
30	149.79	103.83	Shut-In(1)
90	1188.27	103.02	End Shut-In(1)
91	1419.92	103.12	Open To Flow (2)
151	1292.73	102.93	Shut-In(2)
211	1232.12	102.98	End Shut-In(2)
211	1573.35	103.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
260.00	MCW 30% m 70% w	1.95

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 #2-32

Job Ticket: 64937

DST#: 1

ATTN: Larry Nicholson

Test Start: 2016.07.08 @ 04:31:00

Tool Information

Drill Pipe:	Length: 3173.00 ft	Diameter: 3.80 inches	Volume: 44.51 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 45.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3382.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 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			3355.00	
Shut In Tool	5.00			3360.00	
Hydraulic tool	5.00			3365.00	
Jars	5.00			3370.00	
Safety Joint	2.00			3372.00	
Packer	5.00			3377.00	28.00 Bottom Of Top Packer
Packer	5.00			3382.00	
Stubb	1.00			3383.00	
Perforations	2.00			3385.00	
Recorder	0.00	6668	Inside	3385.00	
Recorder	0.00	8289	Outside	3385.00	
Perforations	20.00			3405.00	
Bullnose	3.00			3408.00	26.00 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 #2-32

Job Ticket: 64937

DST#: 1

ATTN: Larry Nicholson

Test Start: 2016.07.08 @ 04:31:00

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:

90000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
260.00	MCW 30%m 70%w	1.953

Total Length: 260.00 ft Total Volume: 1.953 bbl

Num Fluid Samples: 0

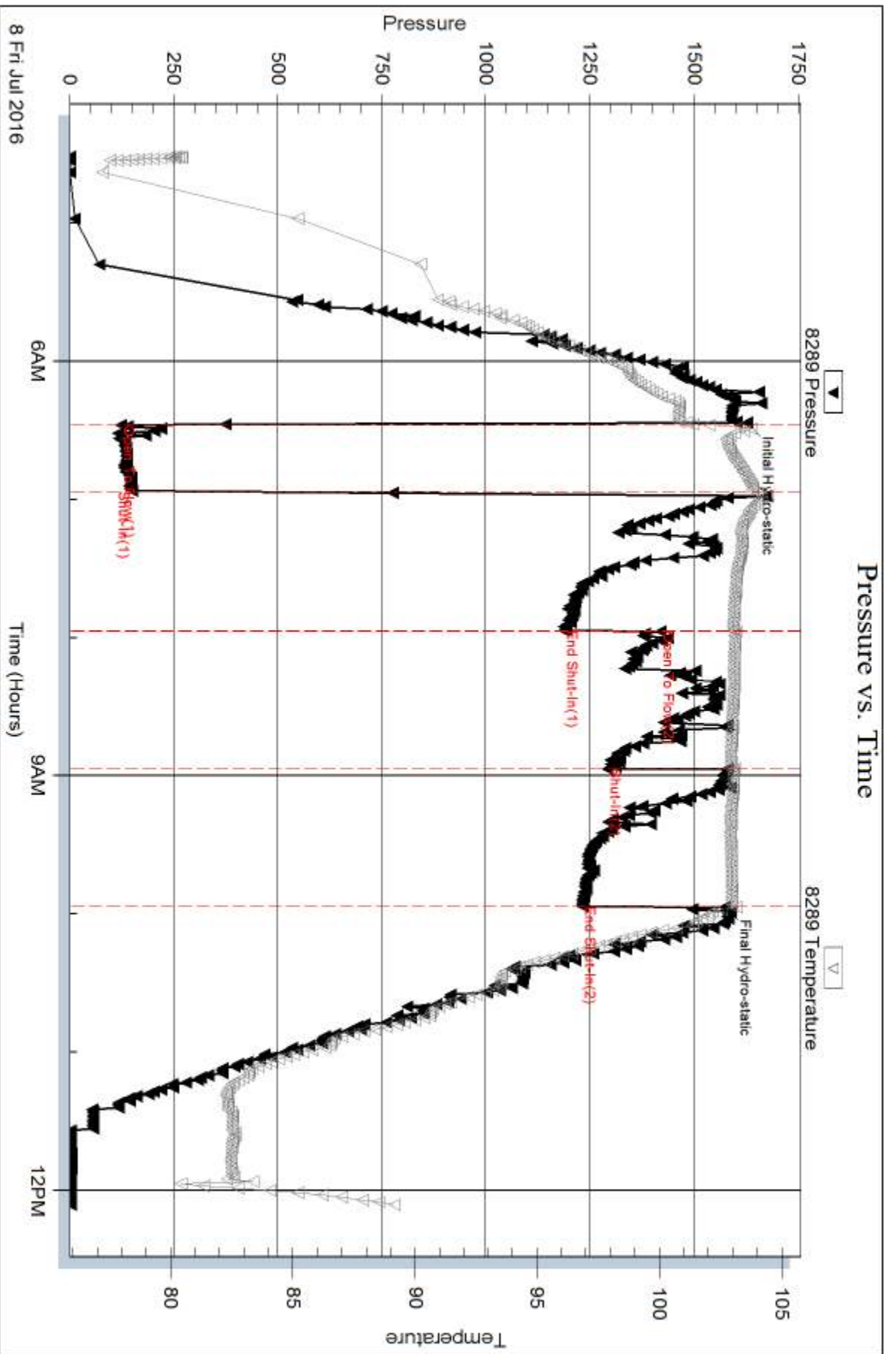
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .069 @ 90



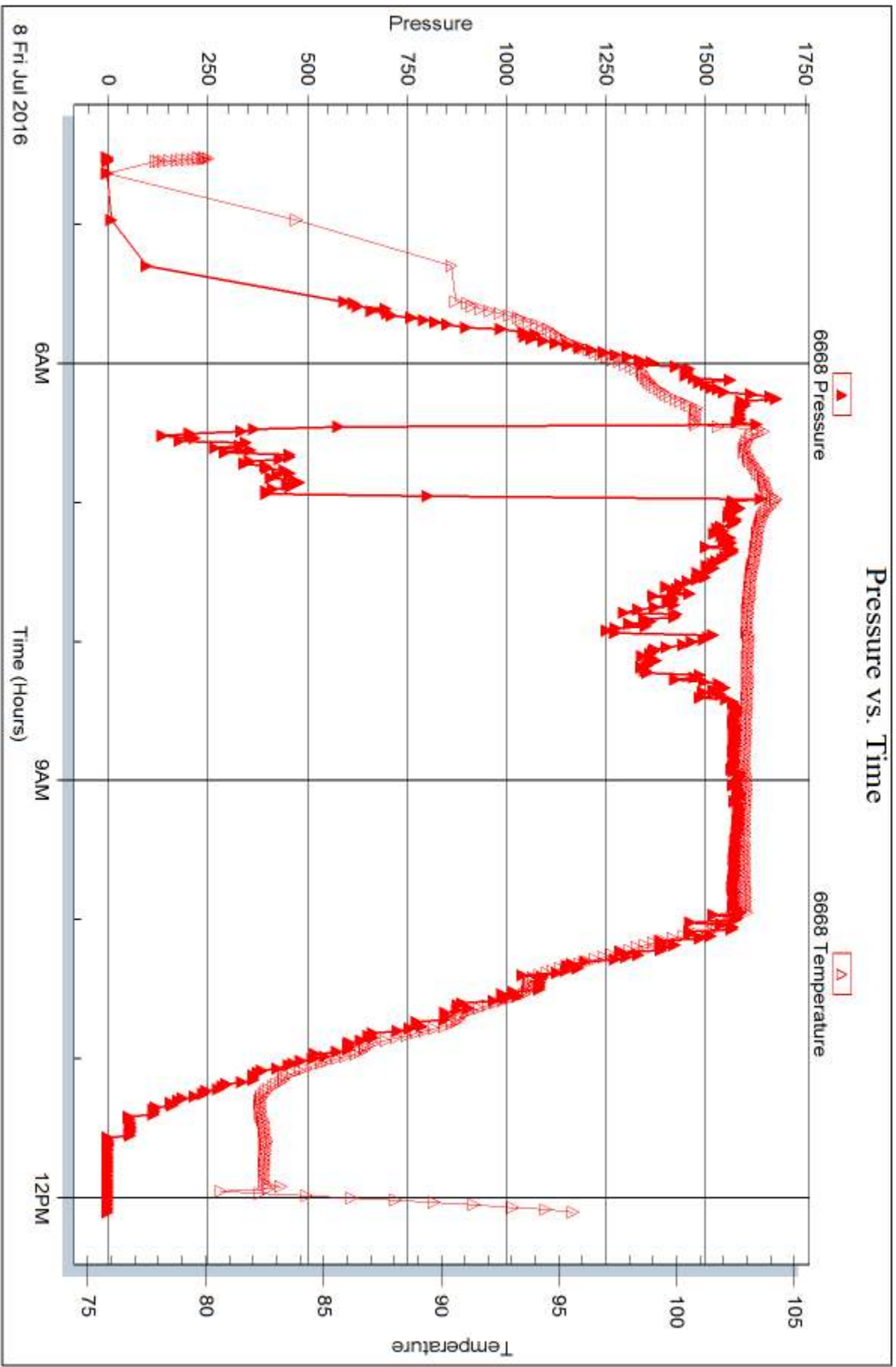
Serial #: 6668

Inside

Cobalt Energy LLC

Ritter A #2-32

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Ritter A #2-32

32-3s-26w Decatur,KS

Start Date: 2016.07.08 @ 17:02:00

End Date: 2016.07.09 @ 01:10:00

Job Ticket #: 64938 DST #: 2

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

Printed: 2016.07.13 @ 08:46:21



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur, KS

PO Box 8037
Wichita KS 67208

Ritter A #2-32

Job Ticket: 64938

DST#: 2

ATTN: Larry Nicholson

Test Start: 2016.07.08 @ 17:02:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:03:15

Time Test Ended: 01:10:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3382.00 ft (KB) To 3408.00 ft (KB) (TVD)

Reference Elevations: 2568.00 ft (KB)

Total Depth: 3408.00 ft (KB) (TVD)

2563.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press@RunDepth: 230.44 psig @ 3385.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.08

End Date:

2016.07.09

Last Calib.:

2016.07.09

Start Time:

17:02:02

End Time:

01:10:15

Time On Btm:

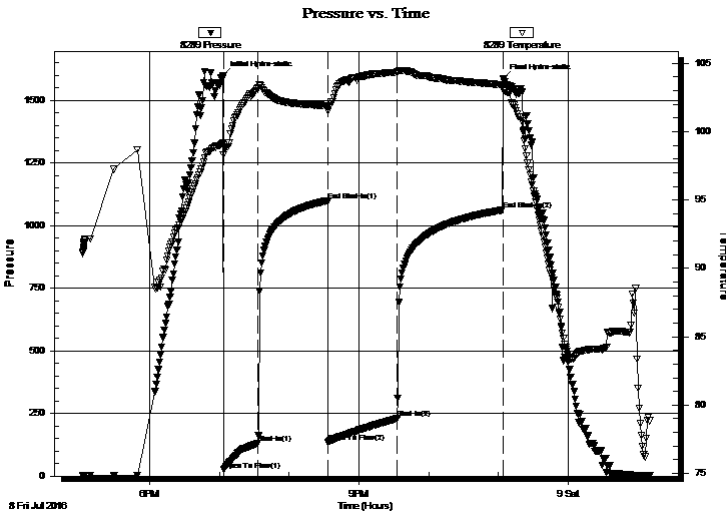
2016.07.08 @ 19:03:00

Time Off Btm:

2016.07.08 @ 23:04:30

TEST COMMENT: 30-IFP- BOB in 22 1/2 min.
60-ISIP- 1/4in. Blow Died in 9 min.
60-FFP- BOB in 26 min.
90-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1597.29	99.15	Initial Hydro-static
1	24.89	98.30	Open To Flow (1)
30	131.23	103.20	Shut-In(1)
90	1097.43	101.90	End Shut-In(1)
90	135.56	101.50	Open To Flow (2)
150	230.44	104.34	Shut-In(2)
241	1062.11	103.41	End Shut-In(2)
242	1585.89	103.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
450.00	MCW 10% m 90% w	4.62

* 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 #2-32

Job Ticket: 64938

DST#: 2

ATTN: Larry Nicholson

Test Start: 2016.07.08 @ 17:02:00

Tool Information

Drill Pipe:	Length: 3199.00 ft	Diameter: 3.80 inches	Volume: 44.87 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 45.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3382.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3355.00	
Shut In Tool	5.00			3360.00	
Hydraulic tool	5.00			3365.00	
Jars	5.00			3370.00	
Safety Joint	2.00			3372.00	
Packer	5.00			3377.00	28.00 Bottom Of Top Packer
Packer	5.00			3382.00	
Stubb	1.00			3383.00	
Perforations	2.00			3385.00	
Recorder	0.00	6668	Inside	3385.00	
Recorder	0.00	8289	Outside	3385.00	
Perforations	20.00			3405.00	
Bullnose	3.00			3408.00	26.00 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 #2-32

Job Ticket: 64938

DST#: 2

ATTN: Larry Nicholson

Test Start: 2016.07.08 @ 17:02:00

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:

85000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
450.00	MCW 10%m 90%w	4.618

Total Length: 450.00 ft Total Volume: 4.618 bbl

Num Fluid Samples: 0

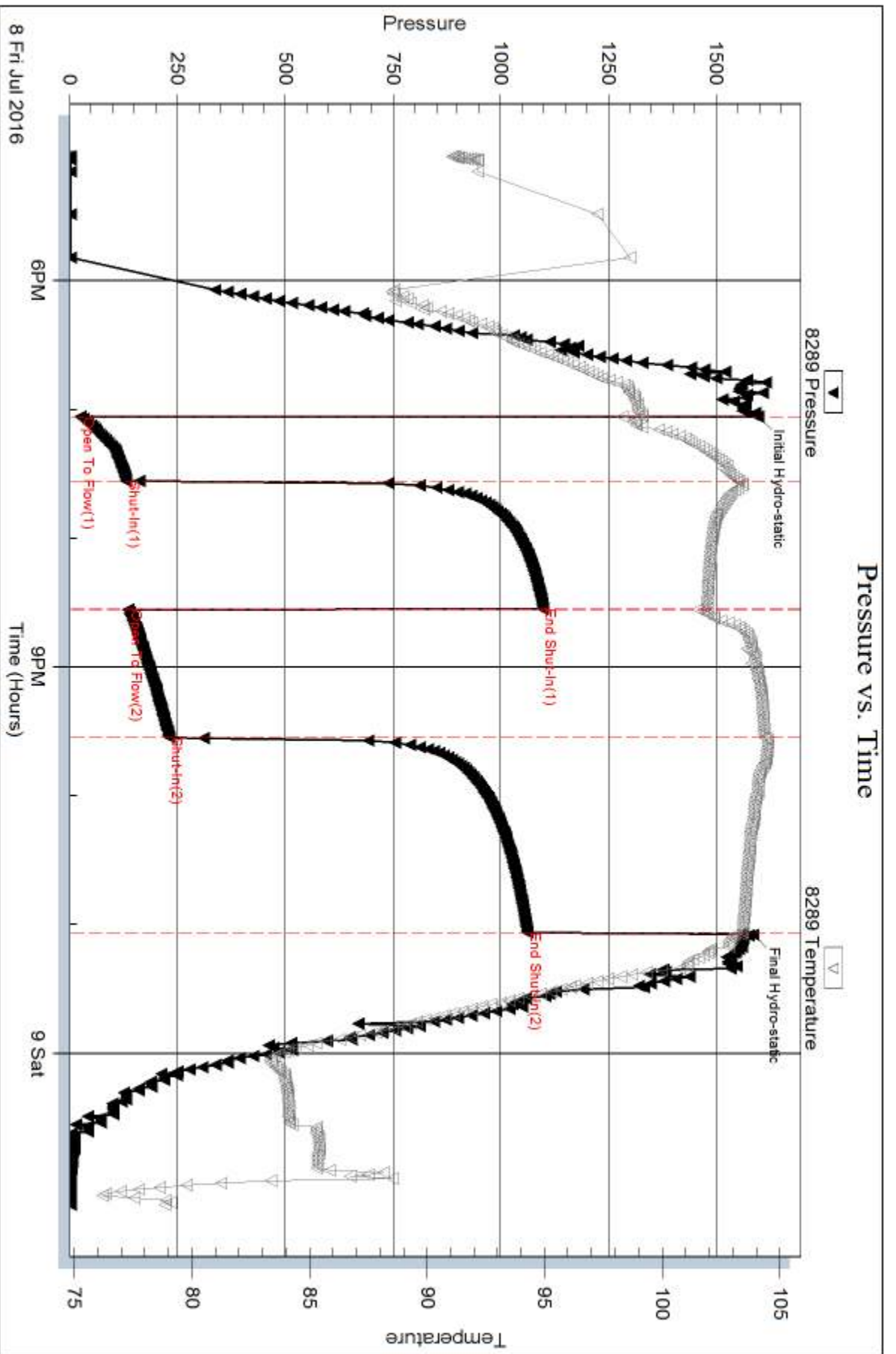
Num Gas Bombs: 0

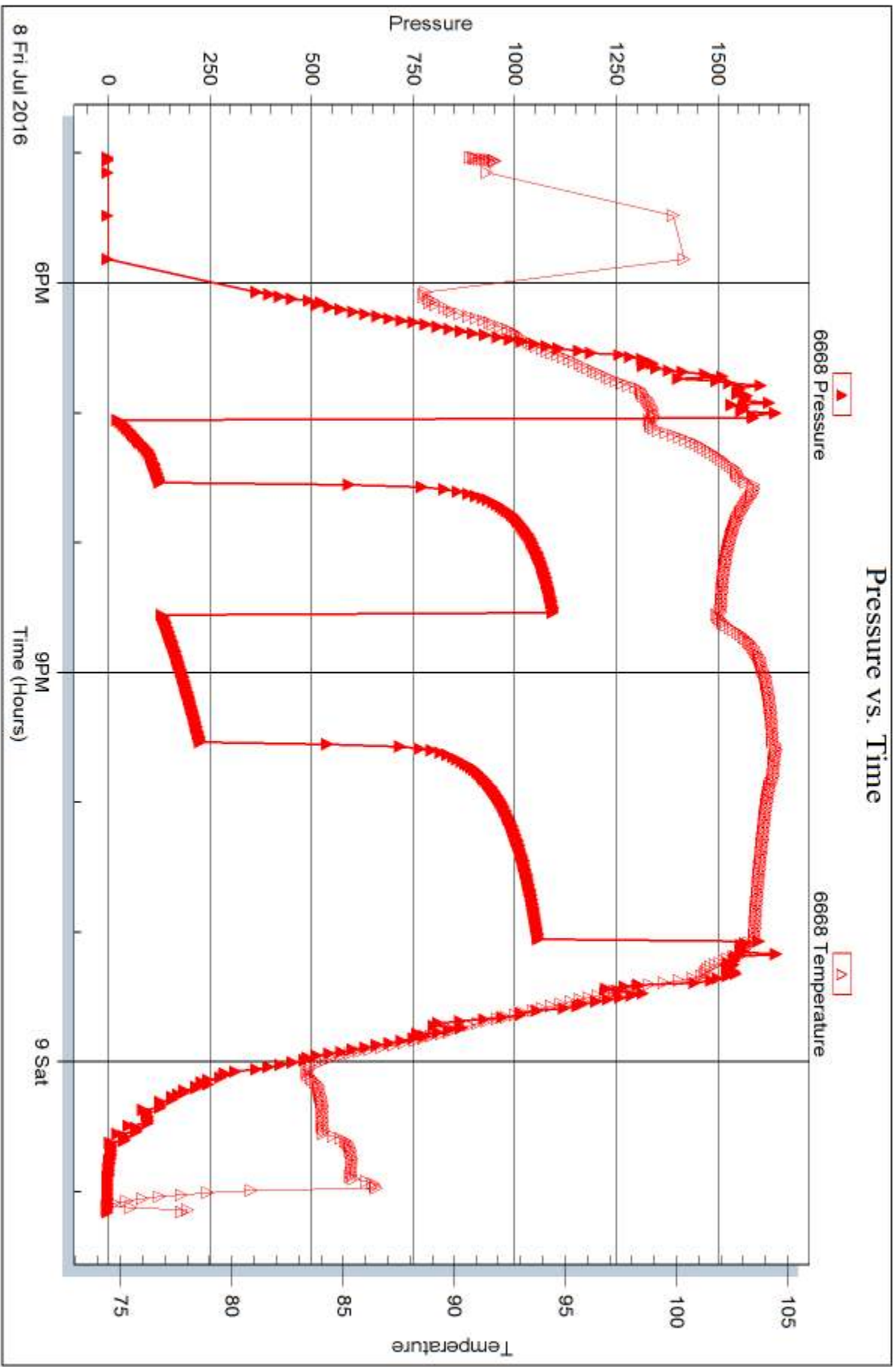
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .090 @ 73







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Ritter A #2-32

32-3s-26w Decatur,KS

Start Date: 2016.07.09 @ 12:58:00

End Date: 2016.07.09 @ 19:10:00

Job Ticket #: 64939 DST #: 3

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

Printed: 2016.07.13 @ 08:45:58



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur,KS

PO Box 8037
Wichita KS 67208

Ritter A #2-32

Job Ticket: 64939

DST#: 3

ATTN: Larry Nicholson

Test Start: 2016.07.09 @ 12:58:00

GENERAL INFORMATION:

Formation: **LKC " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:16:45

Time Test Ended: 19:10:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3560.00 ft (KB) To 3577.00 ft (KB) (TVD)

Reference Elevations: 2568.00 ft (KB)

Total Depth: 3577.00 ft (KB) (TVD)

2563.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press@RunDepth: 23.04 psig @ 3564.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.09 End Date: 2016.07.09

Last Calib.: 2016.07.09

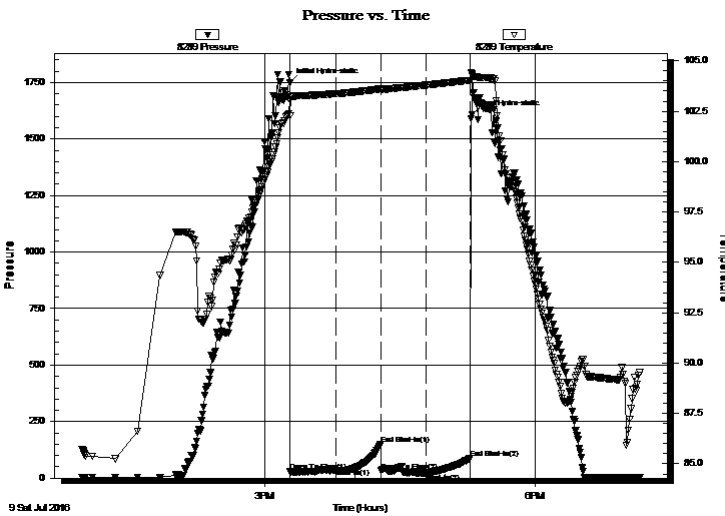
Start Time: 12:58:02 End Time: 19:10:00

Time On Btm: 2016.07.09 @ 15:16:30

Time Off Btm: 2016.07.09 @ 17:18:00

TEST COMMENT: 30-IFP- No Blow
30-ISIP- No Blow
30-FFP- No Blow
30-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1747.93	103.06	Initial Hydro-static
1	31.52	102.29	Open To Flow (1)
31	42.81	103.37	Shut-In(1)
61	149.22	103.61	End Shut-In(1)
61	31.90	103.56	Open To Flow (2)
91	23.04	103.79	Shut-In(2)
121	87.99	104.04	End Shut-In(2)
122	1608.39	104.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%	0.00
0.00	Oil Specks in Tool Tool Plugged	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 #2-32

Job Ticket: 64939

DST#: 3

ATTN: Larry Nicholson

Test Start: 2016.07.09 @ 12:58:00

Tool Information

Drill Pipe:	Length: 3357.00 ft	Diameter: 3.80 inches	Volume: 47.09 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 48.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3560.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	45.00 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			3533.00	
Shut In Tool	5.00			3538.00	
Hydraulic tool	5.00			3543.00	
Jars	5.00			3548.00	
Safety Joint	2.00			3550.00	
Packer	5.00			3555.00	28.00 Bottom Of Top Packer
Packer	5.00			3560.00	
Stubb	1.00			3561.00	
Perforations	3.00			3564.00	
Recorder	0.00	6668	Inside	3564.00	
Recorder	0.00	8289	Outside	3564.00	
Perforations	10.00			3574.00	
Bullnose	3.00			3577.00	17.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**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 #2-32

Job Ticket: 64939

DST#: 3

ATTN: Larry Nicholson

Test Start: 2016.07.09 @ 12:58:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1.00	Mud 100%	0.005
0.00	Oil Specks in Tool Tool Plugged	0.000

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

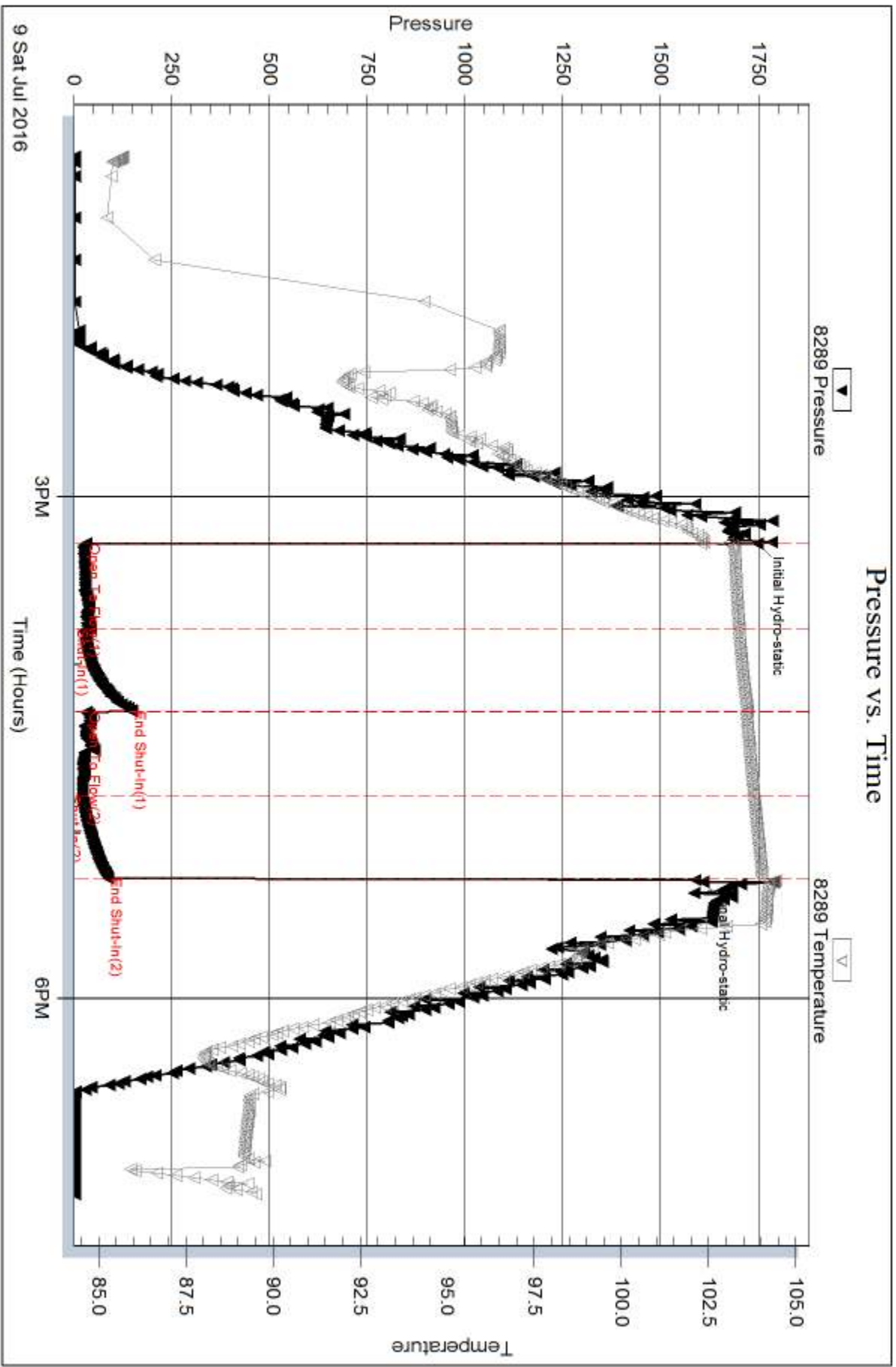
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



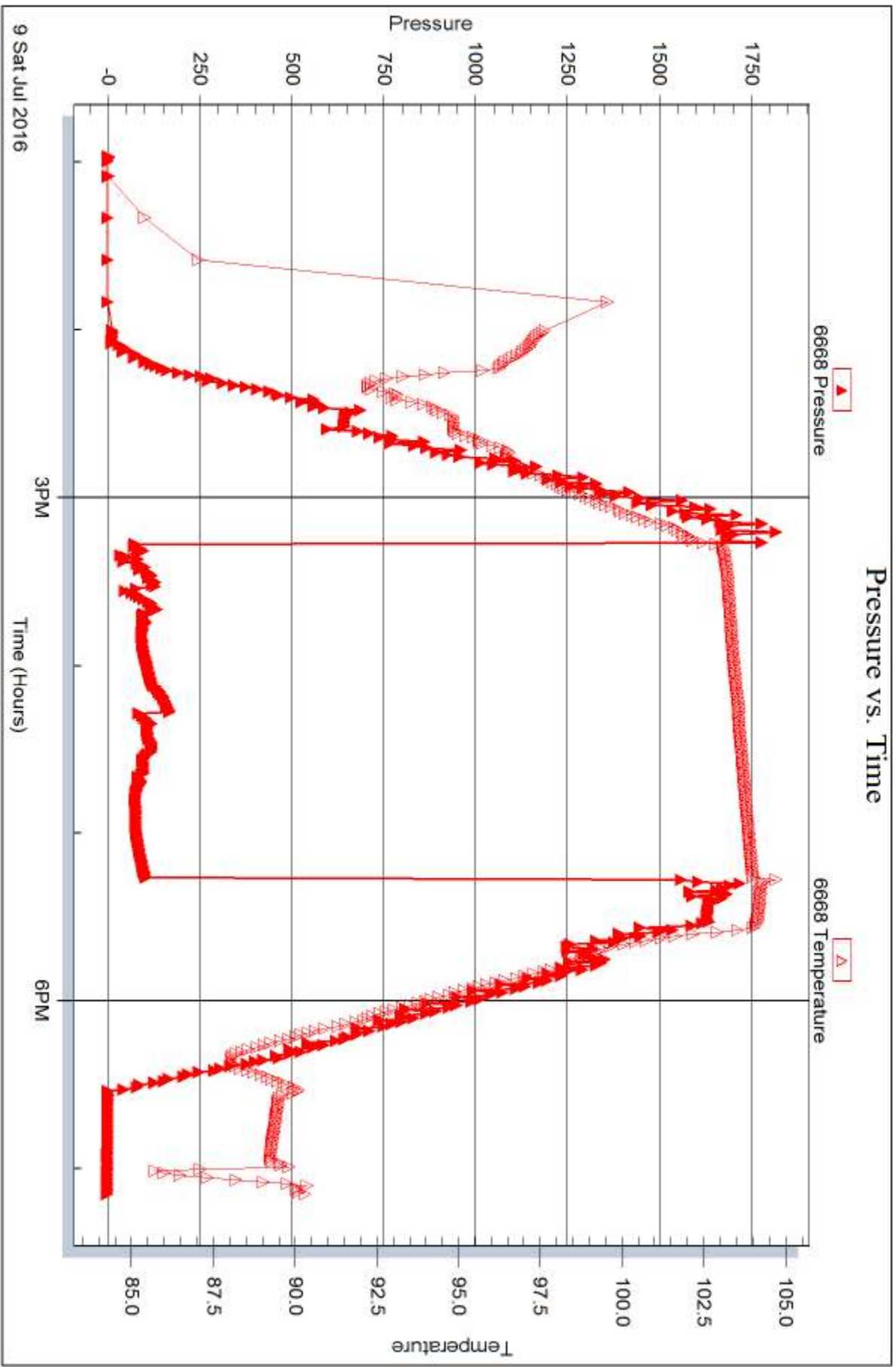
Serial #: 6668

Inside

Cobalt Energy LLC

Ritter A #2-32

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64939

Printed: 2016.07.13 @ 08:46:00



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Ritter A #2-32

32-3s-26w Decatur,KS

Start Date: 2016.07.10 @ 03:03:00

End Date: 2016.07.10 @ 11:43:00

Job Ticket #: 64940 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.07.13 @ 08:45:03



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur,KS

PO Box 8037
Wichita KS 67208

Ritter A #2-32

Job Ticket: 64940

DST#: 4

ATTN: Larry Nicholson

Test Start: 2016.07.10 @ 03:03:00

GENERAL INFORMATION:

Formation: **LKC " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:42:45

Time Test Ended: 11:43:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3579.00 ft (KB) To 3603.00 ft (KB) (TVD)

Reference Elevations: 2568.00 ft (KB)

Total Depth: 3603.00 ft (KB) (TVD)

2563.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press@RunDepth: 34.92 psig @ 3580.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.10

End Date:

2016.07.10

Last Calib.:

2016.07.10

Start Time: 03:03:02

End Time:

11:43:00

Time On Btm:

2016.07.10 @ 05:42:30

Time Off Btm:

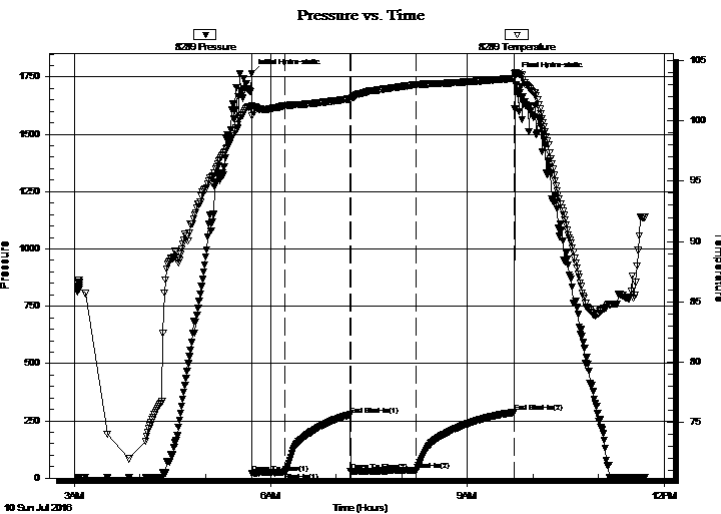
2016.07.10 @ 09:43:30

TEST COMMENT: 30-IFP- Weak Surface Blow

60-ISIP- No Blow

60-FFP- No Blow

90-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1763.72	101.23	Initial Hydro-static
1	20.50	100.43	Open To Flow (1)
31	24.96	101.26	Shut-In(1)
90	276.57	101.84	End Shut-In(1)
91	28.36	101.74	Open To Flow (2)
151	34.92	103.00	Shut-In(2)
241	286.69	103.52	End Shut-In(2)
241	1752.42	104.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MCW 40% m 60% w Show of Oil	0.05

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 #2-32

Job Ticket: 64940

DST#: 4

ATTN: Larry Nicholson

Test Start: 2016.07.10 @ 03:03:00

Tool Information

Drill Pipe:	Length: 3389.00 ft	Diameter: 3.80 inches	Volume: 47.54 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 48.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3579.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 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			3552.00	
Shut In Tool	5.00			3557.00	
Hydraulic tool	5.00			3562.00	
Jars	5.00			3567.00	
Safety Joint	2.00			3569.00	
Packer	5.00			3574.00	28.00 Bottom Of Top Packer
Packer	5.00			3579.00	
Stubb	1.00			3580.00	
Recorder	0.00	6668	Inside	3580.00	
Recorder	0.00	8289	Outside	3580.00	
Perforations	20.00			3600.00	
Bullnose	3.00			3603.00	24.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**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 #2-32

Job Ticket: 64940

DST#: 4

ATTN: Larry Nicholson

Test Start: 2016.07.10 @ 03:03:00

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:

19000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	MCW 40%m 60%w Show of Oil	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbf

Num Fluid Samples: 0

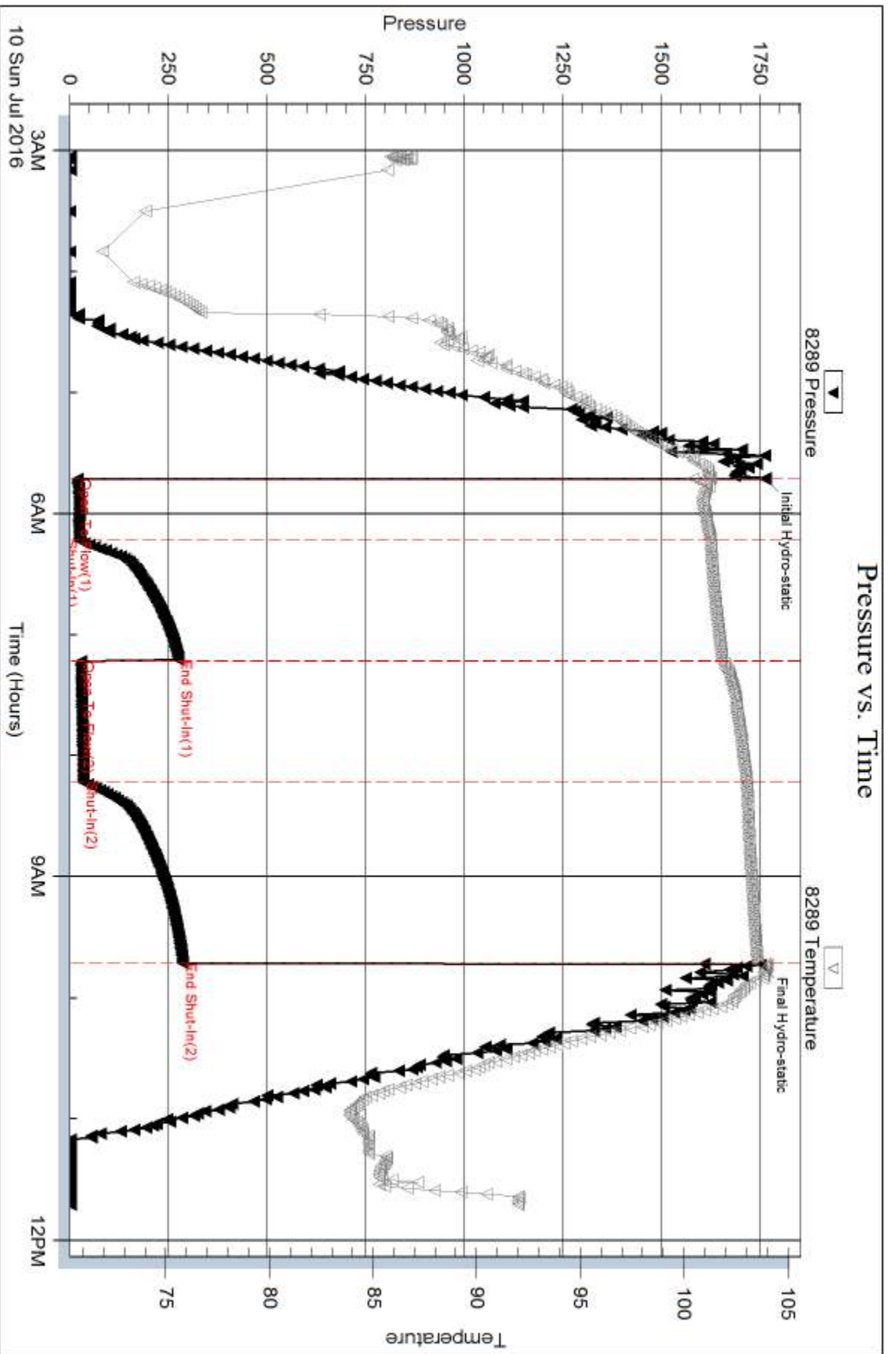
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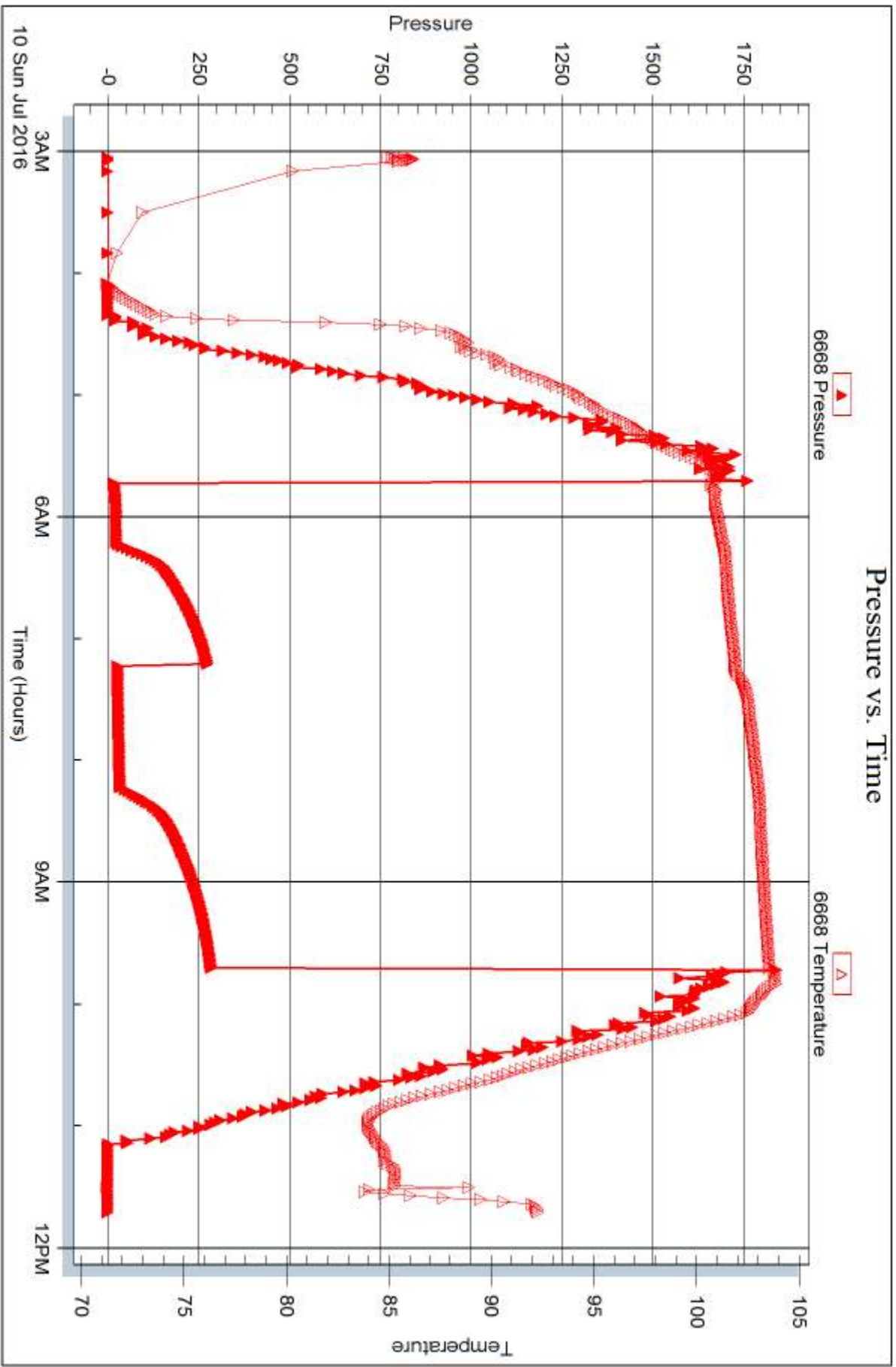
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .226 @ 108







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Ritter A #2-32

32-3s-26w Decatur,KS

Start Date: 2016.07.10 @ 23:16:00

End Date: 2016.07.11 @ 07:47:00

Job Ticket #: 64941 DST #: 5

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

Printed: 2016.07.13 @ 08:37:17



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur, KS

PO Box 8037
Wichita KS 67208

Ritter A #2-32

Job Ticket: 64941

DST#: 5

ATTN: Larry Nicholson

Test Start: 2016.07.10 @ 23:16:00

GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:48:00

Time Test Ended: 07:47:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3610.00 ft (KB) To 3688.00 ft (KB) (TVD)

Reference Elevations: 2568.00 ft (KB)

Total Depth: 3688.00 ft (KB) (TVD)

2563.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press@RunDepth: 77.87 psig @ 3616.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.10

End Date:

2016.07.11

Last Calib.:

2016.07.11

Start Time: 23:16:02

End Time:

07:47:00

Time On Btm:

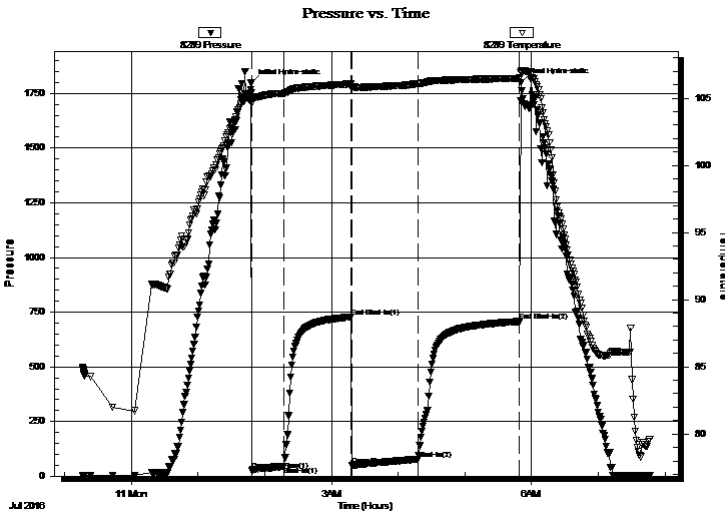
2016.07.11 @ 01:47:45

Time Off Btm:

2016.07.11 @ 05:50:30

TEST COMMENT: 30-IFP- Surface Blow Building to 1"
60-ISIP- No Blow
60-FFP- Weak Surface Blow in 12 min.
90-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1797.21	105.39	Initial Hydro-static
1	24.77	104.60	Open To Flow (1)
30	44.70	105.37	Shut-In(1)
90	727.42	106.07	End Shut-In(1)
91	49.76	105.72	Open To Flow (2)
150	77.87	106.07	Shut-In(2)
242	707.21	106.49	End Shut-In(2)
243	1800.32	107.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	MCW 30% m 70% w Show of Oil in Tool	0.37

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 #2-32

Job Ticket: 64941

DST#: 5

ATTN: Larry Nicholson

Test Start: 2016.07.10 @ 23:16:00

Tool Information

Drill Pipe:	Length: 3421.00 ft	Diameter: 3.80 inches	Volume: 47.99 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 48.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3610.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3583.00	
Shut In Tool	5.00			3588.00	
Hydraulic tool	5.00			3593.00	
Jars	5.00			3598.00	
Safety Joint	2.00			3600.00	
Packer	5.00			3605.00	28.00 Bottom Of Top Packer
Packer	5.00			3610.00	
Stubb	1.00			3611.00	
Perforations	4.00			3615.00	
Change Over Sub	1.00			3616.00	
Recorder	0.00	6668	Inside	3616.00	
Recorder	0.00	8289	Outside	3616.00	
Blank Spacing	63.00			3679.00	
Change Over Sub	1.00			3680.00	
Perforations	5.00			3685.00	
Bullnose	3.00			3688.00	78.00 Bottom Packers & Anchor
Total Tool Length:	106.00				



**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 #2-32

Job Ticket: 64941

DST#: 5

ATTN: Larry Nicholson

Test Start: 2016.07.10 @ 23:16:00

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:

62000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	MCW 30% _m 70% _w Show of Oil in Tool	0.369

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

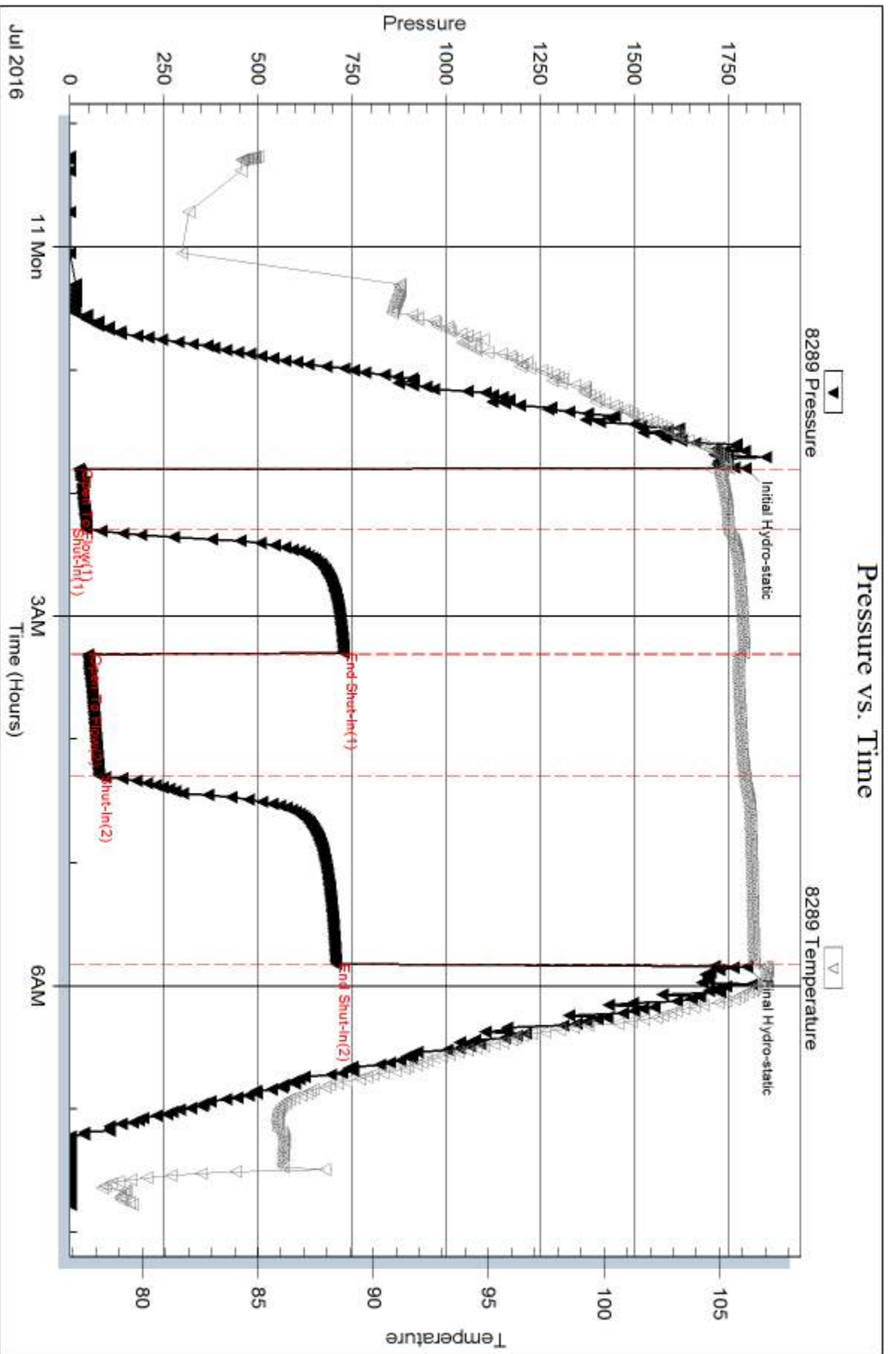
Num Gas Bombs: 0

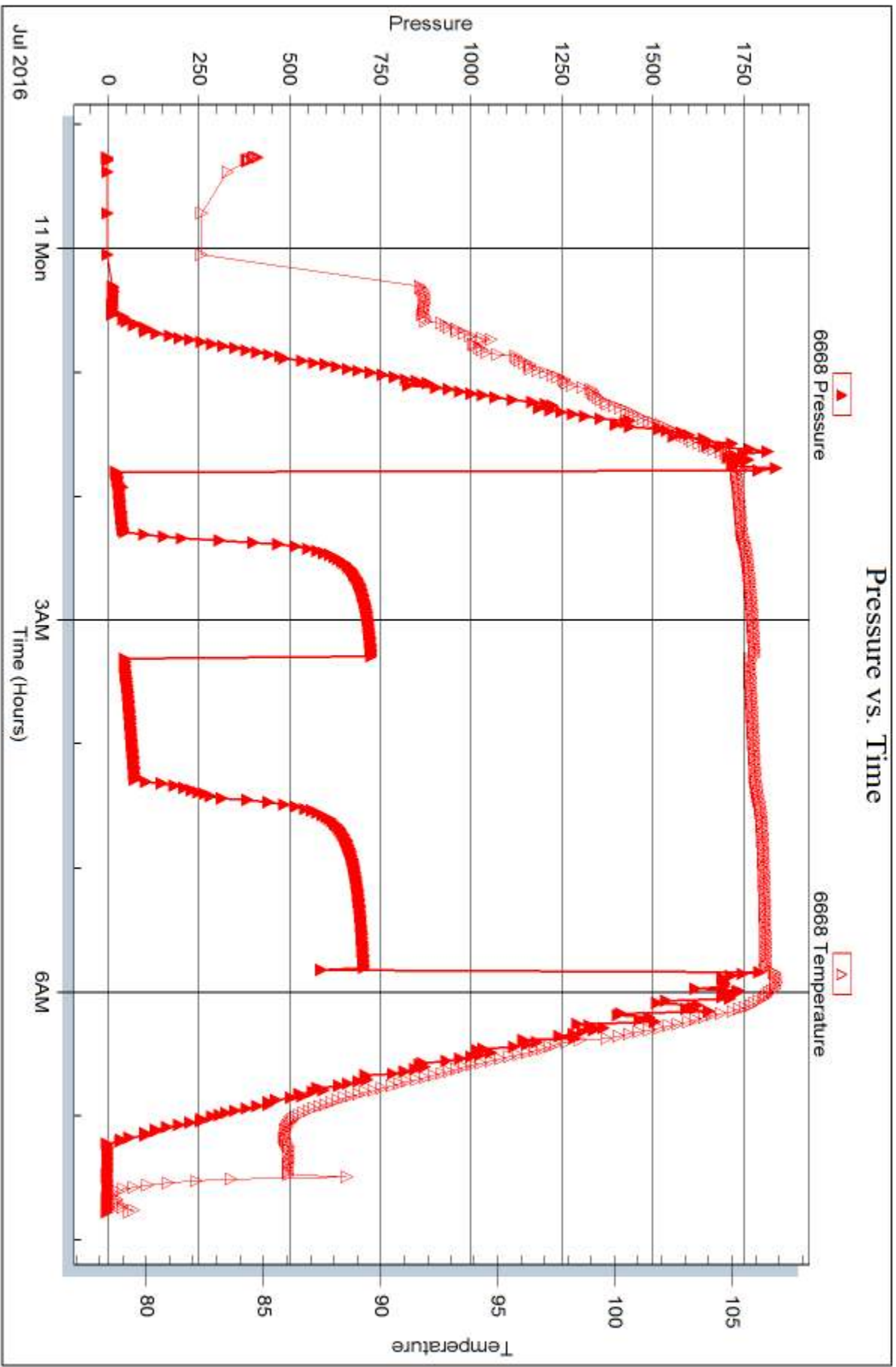
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .112 @ 79







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Larry Nicholson

Ritter A #2-32

32-3s-26w Decatur,KS

Start Date: 2016.07.11 @ 18:02:00

End Date: 2016.07.12 @ 00:46:00

Job Ticket #: 64942 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.07.13 @ 08:36:36



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

32-3s-26w Decatur, KS

PO Box 8037
Wichita KS 67208

Ritter A #2-32

Job Ticket: 64942

DST#: 6

ATTN: Larry Nicholson

Test Start: 2016.07.11 @ 18:02:00

GENERAL INFORMATION:

Formation: **LKC "J - L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:10:45

Time Test Ended: 00:46:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3695.00 ft (KB) To 3762.00 ft (KB) (TVD)

Reference Elevations: 2568.00 ft (KB)

Total Depth: 3762.00 ft (KB) (TVD)

2563.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press@RunDepth: 25.29 psig @ 3701.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.11

End Date:

2016.07.12

Last Calib.:

2016.07.12

Start Time: 18:02:02

End Time:

00:46:15

Time On Btm:

2016.07.11 @ 20:10:30

Time Off Btm:

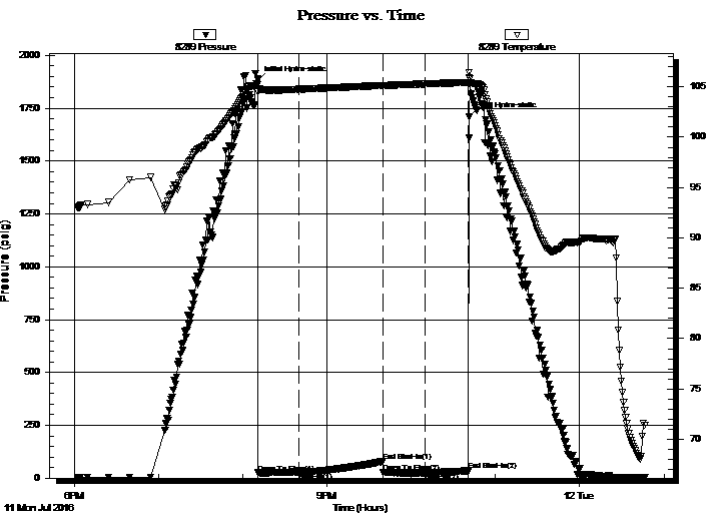
2016.07.11 @ 22:41:15

TEST COMMENT: 30-IFP- Weak Surface Blow Died in 11 min.

60-ISIP- No Blow

30-FFP- No Blow

30-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1882.27	105.19	Initial Hydro-static
1	25.04	104.55	Open To Flow (1)
30	26.51	104.76	Shut-In(1)
90	79.17	105.13	End Shut-In(1)
90	26.25	105.09	Open To Flow (2)
120	25.29	105.29	Shut-In(2)
151	34.85	105.43	End Shut-In(2)
151	1707.98	105.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	OSM 100%	0.01

* 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 #2-32

Job Ticket: 64942

DST#: 6

ATTN: Larry Nicholson

Test Start: 2016.07.11 @ 18:02:00

Tool Information

Drill Pipe:	Length: 3485.00 ft	Diameter: 3.80 inches	Volume: 48.89 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 49.80 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3695.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	67.00 ft				
Tool Length:	95.00 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			3668.00	
Shut In Tool	5.00			3673.00	
Hydraulic tool	5.00			3678.00	
Jars	5.00			3683.00	
Safety Joint	2.00			3685.00	
Packer	5.00			3690.00	28.00 Bottom Of Top Packer
Packer	5.00			3695.00	
Stubb	1.00			3696.00	
Perforations	5.00			3701.00	
Recorder	0.00	6668	Inside	3701.00	
Recorder	0.00	8289	Outside	3701.00	
Perforations	25.00			3726.00	
Change Over Sub	1.00			3727.00	
Blank Spacing	31.00			3758.00	
Change Over Sub	1.00			3759.00	
Bullnose	3.00			3762.00	67.00 Bottom Packers & Anchor
Total Tool Length:	95.00				



**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 #2-32

Job Ticket: 64942

DST#: 6

ATTN: Larry Nicholson

Test Start: 2016.07.11 @ 18:02:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	OSM 100%	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

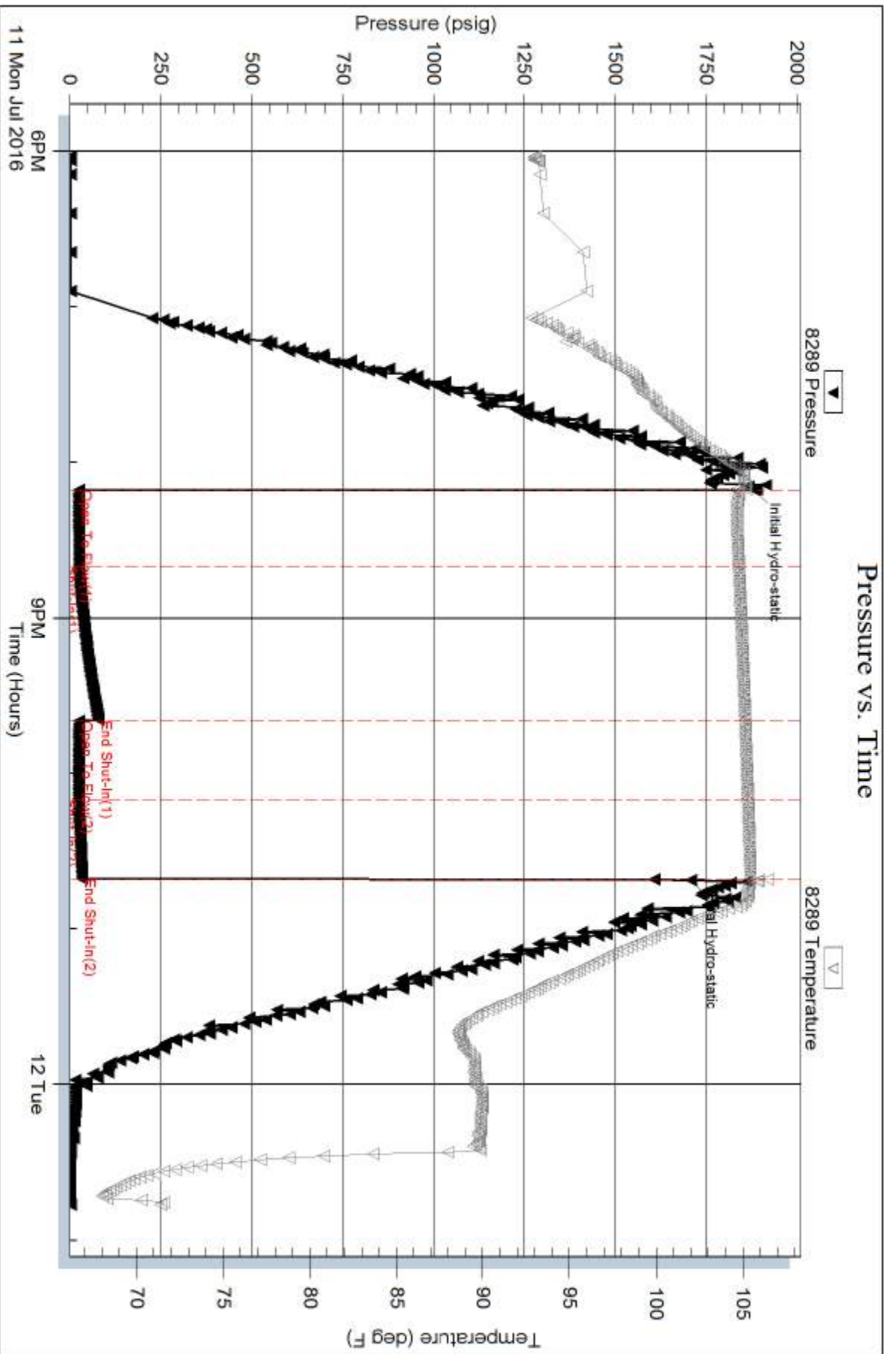
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



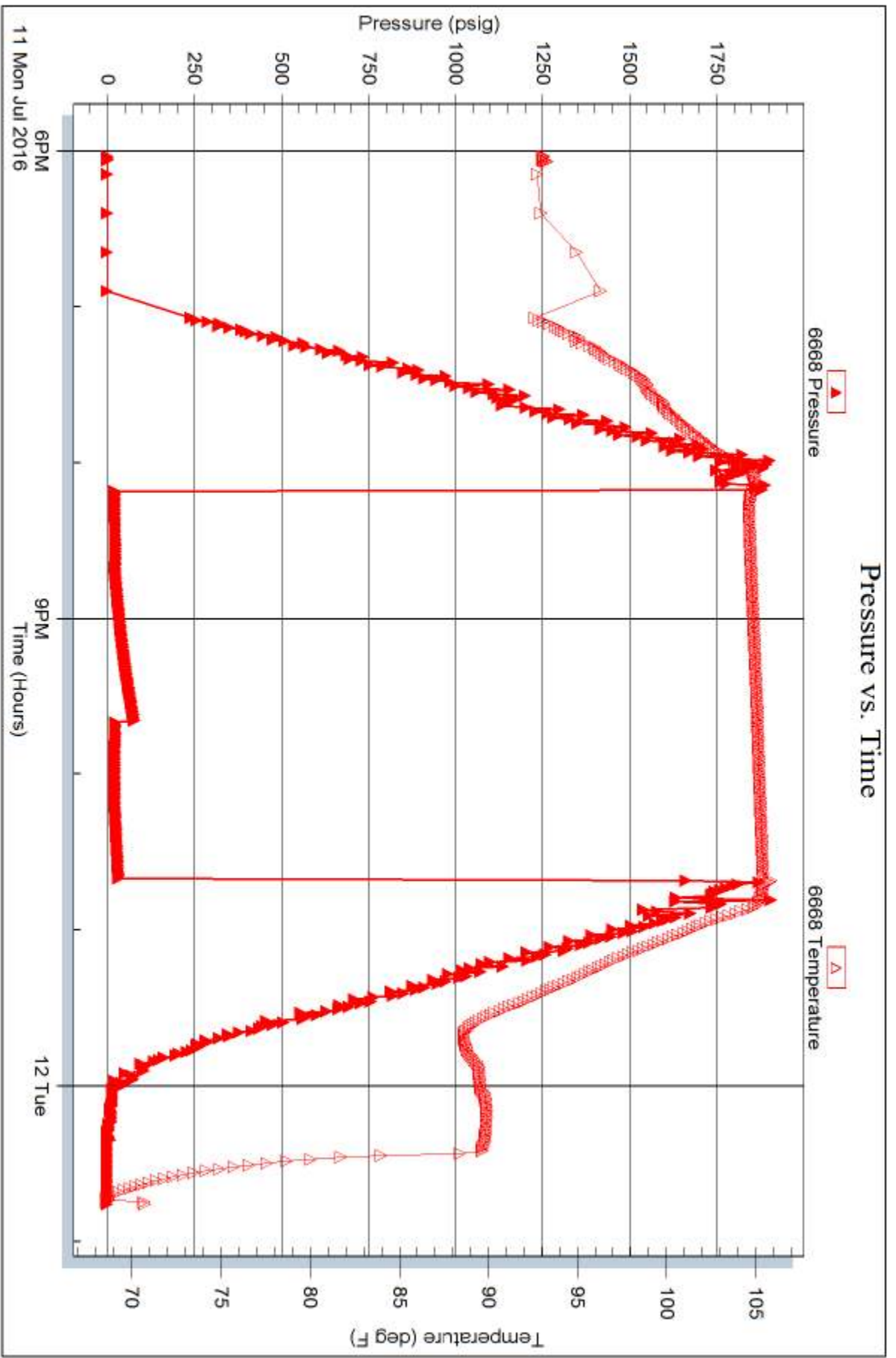
Serial #: 6668

Inside

Cobalt Energy LLC

Ritter A #2-32

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 64942

Printed: 2016.07.13 @ 08:36:38



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64937**

Well Name & No. Ritter "A" 2-32 Test No. 1 Date 7-8-16
 Company Cobalt Energy LLC Elevation 2568 KB 2563 GL
 Address 115 S. Belmont #12 Box 8037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Mur Fin 7
 Location: Sec. 32 Twp. 3 S Rge. 26 W Co. Decatur State KS

Interval Tested 3382-3408 Zone Tested Topeka
 Anchor Length 26 Drill Pipe Run 3173 Mud Wt. 8.9
 Top Packer Depth 3377 Drill Collars Run 186 Vis 50
 Bottom Packer Depth 3382 Wt. Pipe Run 0 WL 6.0
 Total Depth 3408 Chlorides 1600 ppm System LCM 2

Blow Description IFF- BOB in 21min.
ISIP- No Blow
FFP- No Blow
FSIP- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>260</u>	<u>mcw</u>		<u>70</u>	<u>30</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 260 BHT 103 Gravity _____ API RW .069 @ 90 ° F Chlorides 90000 ppm

(A) Initial Hydrostatic <u>1626</u>	<input checked="" type="checkbox"/> Test <u>850</u>	T-On Location <u>03:37</u>
(B) First Initial Flow <u>123</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>04:31</u>
(C) First Final Flow <u>149</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>06:27</u>
(D) Initial Shut-In <u>1188</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>09:57</u>
(E) Second Initial Flow <u>1419</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>12:07</u>
(F) Second Final Flow <u>1292</u>	<input checked="" type="checkbox"/> Mileage <u>30</u>	Comments _____
(G) Final Shut-In <u>1232</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1573</u>	<input type="checkbox"/> Straddle _____	_____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1205</u>
	Sub Total <u>1205</u>	MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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7856395864



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64938

Well Name & No. Ritter "A" 2-32 Test No. 2 Date 7-8-16
 Company Cobalt Energy LLC Elevation 2568 KB 2563 GL
 Address 115 S. Belmont #12 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 3382-3408 Zone Tested Topeka
 Anchor Length 26 Drill Pipe Run 3199 Mud Wt. 8.9
 Top Packer Depth 3377 Drill Collars Run 186 Vis 50
 Bottom Packer Depth 3382 Wt. Pipe Run 0 WL 6.0
 Total Depth 3408 Chlorides 1600 ppm System LCM 2

Blow Description IFP - BOB in 22 1/2 min.
ISIP - 1/4 in Blow Died in 9 min.
FFP - BOB 26 min.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>450</u>	<u>MCW</u>		<u>90</u>	<u>10</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 450 BHT 103 Gravity _____ API RW .090 @ 72 °F Chlorides 85000 ppm
 (A) Initial Hydrostatic 1597 Test 1050 T-On Location 16:41
 (B) First Initial Flow 24 Jars 250 T-Started 17:02
 (C) First Final Flow 131 Safety Joint 75 T-Open 19:03
 (D) Initial Shut-In 1097 Circ Sub _____ T-Pulled 23:03
 (E) Second Initial Flow 135 Hourly Standby _____ T-Out 01:10
 (F) Second Final Flow 230 Mileage 30 40 RT Comments _____
 (G) Final Shut-In 1062 Sampler _____
 (H) Final Hydrostatic 1585 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 0
 Total 1655
 MP/DST Disc't _____
 Sub Total 1655

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64939**

4/10

Well Name & No. Ritter "A" 2-32 Test No. 3 Date 7-9-16
 Company Cobalt Energy LLC Elevation 2568 KB 2563 GL
 Address 115 S. Belmont #12 Box 8037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin 7
 Location: Sec. 32 Twp. 3^S Rge. 26^W Co. Decatur State KS

Interval Tested 3560 - 3577 Zone Tested LKC "A"
 Anchor Length 17 Drill Pipe Run 3357 Mud Wt. 9.1
 Top Packer Depth 3555 Drill Collars Run 186 Vis 60
 Bottom Packer Depth 3560 Wt. Pipe Run 0 WL 6.2
 Total Depth 3577 Chlorides 1600 ppm System LCM 2

Blow Description IFP - No Blow
ISIP - No Blow
FFP - No Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Heavy Mud (Plugged)</u>			<u>100</u>	
	<u>Oil Specks in Tool</u>				

Rec Total 1 BHT 104 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1747</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>12:53</u>
(B) First Initial Flow <u>31</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:58</u>
(C) First Final Flow <u>42</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>15:17</u>
(D) Initial Shut-In <u>149</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>17:17</u>
(E) Second Initial Flow <u>31</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>19:10</u>
(F) Second Final Flow <u>23</u>	<input checked="" type="checkbox"/> Mileage <u>30</u>	Comments _____
(G) Final Shut-In <u>88</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1608</u>	<input type="checkbox"/> Straddle _____	
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility _____	Total <u>1655</u>
	Sub Total <u>1655</u>	MP/DST Disc't _____

Approved By _____

Our Representative 

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64940**

Well Name & No. Ritter "A" 2-32 Test No. 4 Date 7-10-16
 Company Cobalt Energy LLC Elevation 2568 KB 2563 GL
 Address 115 S. Belmont #12 Box 8037 Wichita KS. 67208
 Co. Rep / Geo. Larry Nicholson Rig 3 Murfin 7
 Location: Sec. 32 Twp. 35 Rge. 26^w Co. Decatur State KS

Interval Tested 3579-3603 Zone Tested LKC "c"
 Anchor Length 24 Drill Pipe Run 3389 Mud Wt. 9.1
 Top Packer Depth 3574 Drill Collars Run 186 Vis 60
 Bottom Packer Depth 3579 Wt. Pipe Run 2 WL 6.2
 Total Depth 3603 Chlorides 1600 ppm System LCM 2

Blow Description IFP - Weak Surface Blow
ISIP - No Blow
F+P - No Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>MCW</u>		<u>60</u>	<u>40</u>	
	<u>Show of Oil</u>				

Rec Total 10 BHT 104 Gravity _____ API RW: 226 @ 108 °F Chlorides 19000 ppm

(A) Initial Hydrostatic <u>1763</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>01:53</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>03:03</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>05:43</u>
(D) Initial Shut-In <u>276</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>09:43</u>
(E) Second Initial Flow <u>28</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>11:43</u>
(F) Second Final Flow <u>34</u>	<input checked="" type="checkbox"/> Mileage <u>30</u>	Comments _____
(G) Final Shut-In <u>286</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1752</u>	<input type="checkbox"/> Straddle _____	
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 _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1655</u>
	Sub Total <u>1655</u>	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. **64941**

4/10

Well Name & No. Ritter "A" 2-32 Test No. 5 Date 7-10-16
 Company Cobalt Energy LLC Elevation 2568 KB 2563 GL
 Address 115 S Belmont #12 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 3610 - 3688 Zone Tested LKC "H"
 Anchor Length 78 Drill Pipe Run 3421 Mud Wt. 9.1
 Top Packer Depth 3605 Drill Collars Run 168 Vis 61
 Bottom Packer Depth 3610 Wt. Pipe Run 0 WL 6.8
 Total Depth 3688 Chlorides 1600 ppm System LCM 2

Blow Description IFP - Surface Blow Building to Lin.
ISIP - No Blow
FFP - Weak Surface Blow in 12 min.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>75</u>	<u>mcw</u>			<u>70</u>	<u>30</u>
Rec	Feet of <u>Show of Oil in Tool</u>	%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 75 BHT 107 Gravity _____ API RW .112 @ 79 °F Chlorides 62000 ppm

(A) Initial Hydrostatic <u>1797</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>22:58</u>
(B) First Initial Flow <u>24</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:16</u>
(C) First Final Flow <u>44</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>01:48</u>
(D) Initial Shut-In <u>727</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>05:48</u>
(E) Second Initial Flow <u>49</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>07:47</u>
(F) Second Final Flow <u>77</u>	<input checked="" type="checkbox"/> Mileage <u>30</u>	Comments _____
(G) Final Shut-In <u>707</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1800</u>	<input type="checkbox"/> Straddle _____	

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>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1655</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1655</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64942

Well Name & No. Ritter "A" 2-32 Test No. 6 Date 7-11-16
 Company Cobalt Energy LLC Elevation 2568 KB 2563 GL
 Address 115 S. Belmont #12 Box 8037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin 7
 Location: Sec. 32 Twp. 3 S Rge. 26 W Co. Decatur State KS

Interval Tested 3695-3762 Zone Tested LKC" J-L"
 Anchor Length 67 Drill Pipe Run 3485 Mud Wt. 9.1
 Top Packer Depth 3690 Drill Collars Run 186 Vis 61
 Bottom Packer Depth 3695 Wt. Pipe Run 0 WL 6.2
 Total Depth 3762 Chlorides 2300 ppm System LCM 2

Blow Description IFP - Weak Surface Blow Died in Illumin.
ISIP - No Blow
FFP - No Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
3	0.5M			100	

Rec Total 3 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1882</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>17:21</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>18:02</u>
(C) First Final Flow <u>26</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:10</u>
(D) Initial Shut-In <u>79</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>22:40</u>
(E) Second Initial Flow <u>26</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>00:46</u>
(F) Second Final Flow <u>25</u>	<input checked="" type="checkbox"/> Mileage <u>60</u>	Comments _____
(G) Final Shut-In <u>34</u>	<input type="checkbox"/> Sampler _____	<u>loaded tools 7/12 16:00</u>
(H) Final Hydrostatic <u>1707</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<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>1685</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1685</u>	

Approved By _____ Our Representative

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GEOLOGICAL REPORT

Larry A. Nicholson

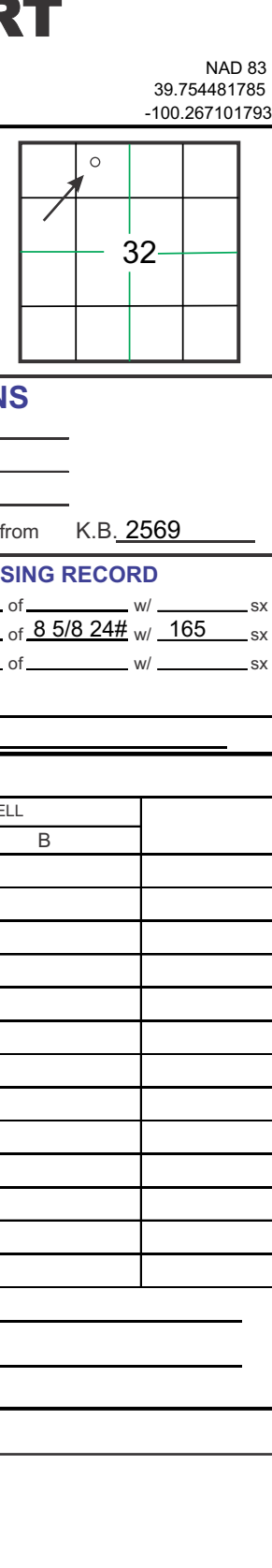
NAD 83
39.754481783
-100.267101793

COMPANY & WELL: Cobalt Energy LLC Ritter 'A' #2-32
LOCATION: 335 FNL 1882 FWL SE NW NE NW
SEC 32 TWP 3S RGE 26W
COUNTY Decatur STATE Ks

COMPANY: Cobalt Energy LLC
API #: 15-039-21231 FIELD: WELL #2-32
LEASE: Ritter 'A'
LOCATION: SE NW NE NW
SURVEY: 335 FNL 1882 FWL
SECTION: 32 TWP 3S RGE 26W
COUNTY: Decatur STATE: Kansas

CONTRACTOR: Murfin Drilling Company, Inc. Rig # 7
SPUD: 9:30 am 07-05-16 COMP: K.B. 2569
RTD: 3:32 5:40 am 07-12-16 LTD: 3832
MUD UP AT: 2880
MUD TYPE: Chemical, MudCo, Gary Schmidt

ELEVATIONS
K.B. 2569
D.F. 2564
All measurements from K.B. 2569



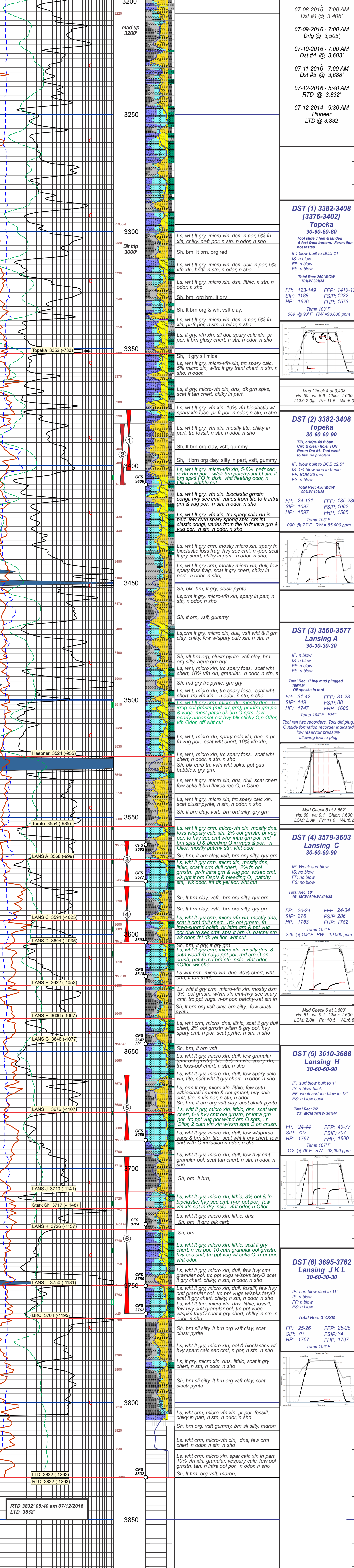
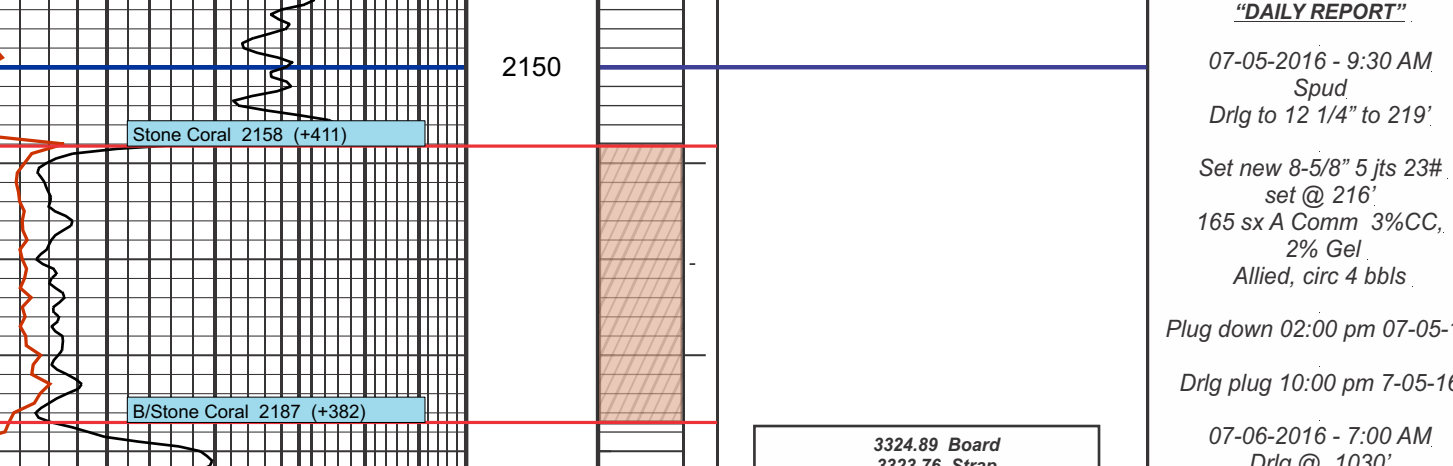
ELECTRICAL SURVEYS & STRUCTURAL POSITION

FORMATION	SAMPLE TOPIIS	SURSEA DATUM	ELEC LOG TOPS	SURSEA DATUM	REFERENCE WELL
Stone C	2157	+412	2158	+411	A
Topoka	3354	-785	3352	-955	B
Hoebner	3524	-957	3524	-955	
Tomba	3554	-985	3554	-985	
LANS A	3568	-999	3568	-999	
LANS C	3595	-1026	3594	-1025	
LANS G	3649	-1080	3646	-1077	
LANS J	3714	-1145	3710	-1141	
Stark Sh	3721	-1152	3717	-1148	
LANS K	3730	-1161	3726	-1157	
BKC	3768	-1199	3764	-1195	
RTD	3832	-1263	3832	-1263	
LTD	3832	-1263	3832	-1263	

REMARKS & RECOMMENDATIONS:
Based on weak sample shows and tight dst results the well was P&A

LAN 762, Modified 5/05, 11/11, 4/12 Hanover, KS 66845 1inch = 25.4mm 8.5 x 7.5 216 mm x 2460 mm

LEGEND



Spud 09:30 AM, 07-05-2016
RTD 05:40 AM, 07-12-2016

"BIT RECORD"
Surface Bit: HTCO Vln-1, 12 1/4"
IS: 219, 1519, in at 219' - out at 1600'
Bt No: 1 HTCO DP506, 7-7/8", 2-14 1/2"
IS: 1151, in at 219' - out at 1600'
Bt No: 2 HTCO DP506, 7-7/8", 2-14 1/2"
IS: 1151, in at 1650' - out at 1700'
Bt No: HTCO DP506, 7-7/8", 2-14 1/2"
IS: 1151, in at 3300' - out at 1700'

"VERTICAL SURVEYS"
3/4" @ 219' 1/2" @
1/2" @ 1519'
1/4" @ 3300'
1/2" @ 3652'

"PUMP DATA"
Emasco D-375
Stroke 14" Liner 6"
64 Stroke
322 GAL/Min

"DAILY REPORT"
07-05-2016 - 9:30 AM
Spud
Set new 8-5/8" 5 Jts 23W
set @ 216'
165 sx A Comm 3%CC,
2% Gel
Allied, circ 4 bbls
Plug down 02:00 pm 07-05-16
Drig plug 10:00 pm 07-05-16

07-06-2016 - 7:00 AM
Drig @ 1030'

07-07-2016 - 7:00 AM
Drig @ 2,585'

07-08-2016 - 7:00 AM
Drig @ 3,408'

07-09-2016 - 7:00 AM
Drig @ 3,505'

07-10-2016 - 7:00 AM
Drig @ 3,603'

07-11-2016 - 7:00 AM
Drig @ 3,688'

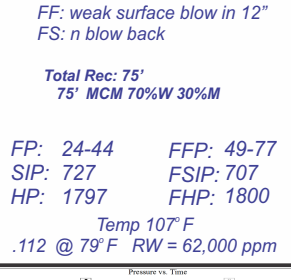
07-12-2016 - 5:40 AM
RTD @ 3,832'

07-12-2016 - 9:30 AM
LTD @ 3,832'

DST (1) 3382-3408
[3376-3402]
Topoka
30-60-60-60
Tool lifts & feet & banded
B read from bottom. Formation
not tested

IF: blow built to BOB 21'
IS: n blow
FF: n blow
FS: n blow
Total Rec: 268 MCW
79W 30W

FP: 123-149 FFP: 1419-1292
SIP: 1183 FSP: 1232
HP: 1626 FHP: 1573
Temp 100 F
@ 97 F RW = 90,000 gpm



Mud Check 4 at 3,408'
vis 61 wt 8.9 Chlor: 1,800
LCM: 2.0M Ph: 11.5 W: 6.0

DST (2) 3682-3408
Topoka
30-60-60-60
CFA & clay hole, TOM
News data at 3,600'
to 10m no problem

IF: blow built to BOB 22.5'
IS: 114 blow died in 9 min
FF: BOB 20 min
FS: n blow

Total Rec: 488 MCW
90W 10W

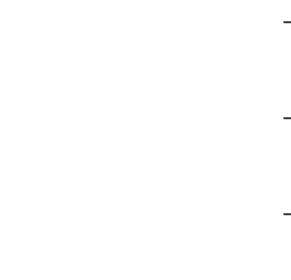
FP: 24-131 FFP: 135-230
SIP: 1097 FSP: 1062
HP: 1597 FHP: 1585
Temp 100 F
@ 90 F RW = 85,000 gpm



DST (3) 3560-3577
Lansing A
30-30-30-30
IF: n blow
FF: n blow
FS: n blow
Total Rec: 178 MCW
16W 16W

FP: 31-42 FFP: 31-23
SIP: 162 FSP: 88
HP: 1747 FHP: 1608
Temp 104 F
@ 97 F RW = 16,000 gpm

Tool run recs recorded. Tool did plug.
Outside formation recorder indicated
allowing tool to plug



Mud Check 5 at 3,562'
vis 61 wt 9.1 Chlor: 1,800
LCM: 2.0M Ph: 11.0 W: 6.0

DST (4) 3579-3603
Lansing C
30-60-60-90
IF: Weak surf blow
IS: n blow
FF: n blow
FS: n blow
Total Rec: 10'
10' MCW 10W 40W

FP: 20-24 FFP: 24-34
SIP: 276 FSP: 286
HP: 1757 FHP: 1752
Temp 100 F
@ 226 @ 100 F RW = 19,000 gpm



Mud Check 6 at 3,603'
vis 61 wt 9.1 Chlor: 1,800
LCM: 2.0M Ph: 10.5 W: 6.0

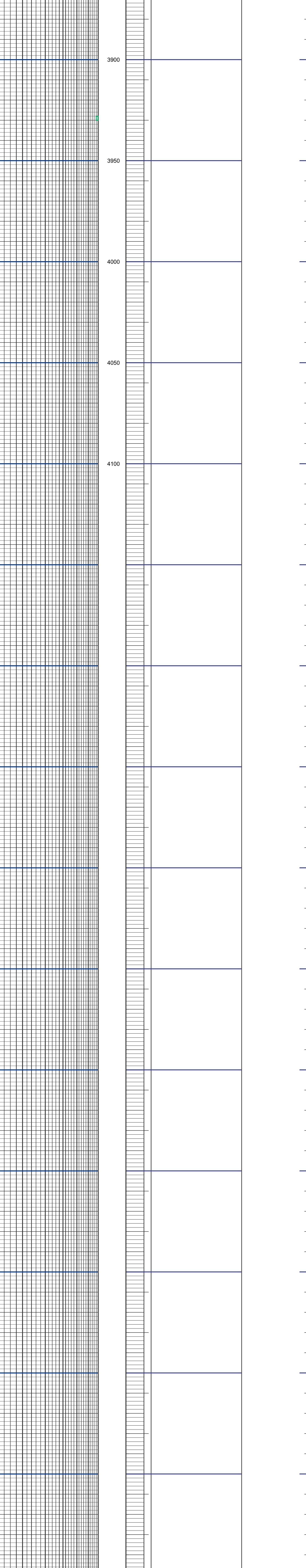
DST (5) 3610-3688
Lansing H
30-60-60-90
IF: surf blow built to 1"
IS: n blow back
FF: weak surface blow in 12"
FS: n blow
Total Rec: 72'
72' MCW 10W 30W

FP: 24-44 FFP: 49-77
SIP: 727 FSP: 707
HP: 1797 FHP: 1600
Temp 100 F
@ 112 @ 79 F RW = 62,000 gpm



DST (6) 3695-3762
Lansing J K L
30-60-30-30
IF: surf blow died in 11"
IS: n blow
FF: n blow
FS: n blow
Total Rec: 3' OSM

FP: 25-26 FFP: 26-25
SIP: 79 FSP: 34
HP: 1707 FHP: 1707
Temp 100 F



RTD 3:32 5:40 am 07/12/2016 LTD 3832'

COMPANY: Cobalt Energy LLC
LEASE: Ritter 'A' #2-32 SE NW NE NW
LOCATION: 335 FNL 1882 FWL SEC 32 TWP 3S RGE 26W
COUNTY: Decatur STATE: Ks

ELEVATIONS
K.B. 2569
D.F. 2564
All measurements from K.B. 2569