

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	BEFORT UNIT "A" 1-23
Doc ID	1452736

Tops

Name	Top	Datum
ANHY	1323	714
BASE ANHY	1366	671
TOPEKA	3055	-1018
HEEBNER	3297	-1260
LANSING	3345	-1308
STARK	3538	-1501
BKC	3589	-1552
ARB	3678	-1641

GLOBAL OIL FIELD SERVICES, LLC

0013261

REMIT TO

24 S. Lincoln
Russell, KS 67665

SERVICE POINT:

Russell KS

DATE <i>11-15-16</i>	SEC. <i>23</i>	TWP. <i>13 S</i>	RANGE <i>19 W</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <i>11:30am</i>
LEASE <i>Becker unit</i>	WELL # <i>1-23</i>	LOCATION			COUNTY <i>Ellis</i>	STATE <i>KS</i>	
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR *Murphy Rig # 8*

TYPE OF JOB *Surface*

HOLE SIZE *13 7/8* T.D.

CASING SIZE *5 7/8* DEPTH *261'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *25'*

PERFS

DISPLACEMENT

OWNER *Cohalt Energy*

CEMENT AMOUNT ORDERED *180 SK 3500 2 3/4 gal*

EQUIPMENT

PUMP TRUCK CEMENTER *Cody*

104 HELPER *Brad*

BULK TRUCK

379 DRIVER *TOM*

BULK TRUCK

DRIVER

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

*Ran 6 hrs of 45% Lit Hadked to Rig
Broke Cements hooked to track pumps
150 SK of cement + displaced 150 gal H2O
+ shut in.*

Cement D.A. Circulate to Surface

CHARGE TO: *Cohalt Energy*

STREET

CITY STATE ZIP

Global Oil Field 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 *Jason Gatti*

SIGNATURE *Jason Gatti*

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS



TICKET 27716

CHARGE TO: Colbelt Energy
 ADDRESS:
 CITY, STATE, ZIP CODE: Wichita, KS

OWNER: 1 OF 2
 DATE: 11-24-2018
 ORDER NO.:
 WELL LOCATION:

SERVICE LOCATIONS:
 1. *Haystacks*
 2. *Ness City, KS*
 3.
 4.

WELL/PROJECT NO.: A-1-23
 LEASE: BeFord Unit
 COUNTY/PARISH: Ellis
 STATE: KS
 CITY: *Haystacks*
 DATE: 11-24-2018

TICKET TYPE: SERVICE
 SALES
 CONTRACTOR: *Murfin Drilling Co. Inc*
 RIG NAME/NO.:
 SHIPPED VIA: *W/My Trucks*
 DELIVERED TO: *W/My Trucks*
 WELL PERMIT NO.:
 WELL LOCATION:

WELL TYPE: *Oil*
 WELL CATEGORY: *Development*
 JOB PURPOSE: *Re-work. Long string*

INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.			UNIT	PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U/M	QTY.			
575						113	10	m			5.00	50.00
579					Pump Charge Two steps		1	ea		3750	1800.00	1800.00
281					Mud ball		500	gal			1.50	750.00
221					Spread KCL		4	gal			25.00	100.00
407					Insert Drift Shear/Blow log		1	ea		54.00	305.00	305.00
417					DV. Latch down plug & Basket		1	ea		54.00	200.00	200.00
408					DV. Tool & Plug set		1	ea		54.00	3395.00	3395.00
409					Turbo - centralizers		10	ea		54.00	85.00	850.00
403					Cement Baskets		2	ea		54.00	295.00	550.00

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: 11-24-2018
 TIME SIGNED: 1:00
 A.M.
 P.M.

SWIFT OPERATOR: *See Paul*

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
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				7599.53
WE UNDERSTOOD AND MET YOUR NEEDS?				7599.53
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				15999.53
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				814.13
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				16393.00

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

APPROVAL: *See Paul*

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 11-24-2018 PAGE NO. #1

CUSTOMER Colbalt Energy A 1-23

WELL NO. A 1-23

LEASE Beford Unit

JOB TYPE Two-stage string

TICKET NO. 27716

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	06:30							Called out
	13:00							On location
	13:40							Start csg 5 1/2" 15 & 16 ft
								Insert float shoe 3 on shoe joint
								Latch down bottle 3 on shoe joint (43.6 ft)
								10 centralizer on 1, 2, 4, 5, 6, 7, 8
								9, 10, & 60 - collars
								2 cent Barbat sliding on 1394, 1436
								DV. tool on top of 59 jt at 1352 ft
	15:00							Csg on bottom
	15:05							Dropped ball
	15:08							Hook up to circulator
	15:20							Started circulation
	16:20							Done circulating
	16:30	5	12			200		Pump 500 mud plant
	16:32	5	20			200		20 bbl KCL plant
	16:36	5	30			200		150 sks standard - 2 mix cut
	16:40	5	36			0		Done mixing - wash out lines
	16:48	6	0			0		Start displacement
	17:03	6	88			800/1000		Done w/ displacement - landed ply at 15000
	17:05					0		Released pressure - dryed up - float held
	17:08							Dropped bomb - to open DV
	17:10							Ply rat hole w/ 30 sks
	17:12							Ply mouse hole w/ 20 sks
	17:15					1000		Opened DV
	17:20	4	20			100		Pump 20 bbl KCL fluid
	17:30	4	0			100		Start mix cut - 150 sks of 5% O and
	17:43	4	88					mixed at 112 PPG
	17:53	4	88			0		Done mixing cut
	17:53		0					Dropped closing ply
	17:54		0			0		Started displacement
	18:00	5	32			500		Done w/ displacement
	18:00		32			1500		Landed ply at 1500 PPG
	18:09					0		Released pressure - DV closed
	18:30							15 sks to pit
								2 cent did circulate approx 15 sks
								Job complete
								Thank you, Ted, Jon & Russell



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Robert Hendrix

Befort Unit 'A' 1-23

23-13S-19W Ellis,KS

Start Date: 2018.11.18 @ 15:20:28

End Date: 2018.11.19 @ 00:20:58

Job Ticket #: 65002 DST #: 1

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

Printed: 2018.11.27 @ 08:39:03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

ATTN: Robert Hendrix

Job Ticket: 65002

DST#: 1

Test Start: 2018.11.18 @ 15:20:28

GENERAL INFORMATION:

Formation: **Lower Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:18:28

Time Test Ended: 00:20:58

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: **3242.00 ft (KB) To 3274.00 ft (KB) (TVD)**

Reference Elevations: 2037.00 ft (KB)

Total Depth: 3274.00 ft (KB) (TVD)

2032.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753 Outside

Press@RunDepth: 289.24 psig @ 3243.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.18

End Date:

2018.11.19

Last Calib.:

2018.11.19

Start Time: 15:20:33

End Time:

00:20:58

Time On Btm:

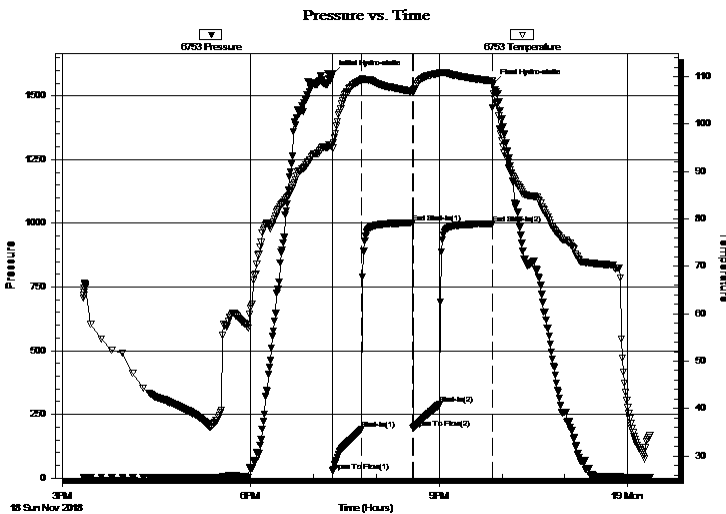
2018.11.18 @ 19:17:58

Time Off Btm:

2018.11.18 @ 21:51:58

TEST COMMENT: 30- IF- BOB 12 mins. Built to 33.10"
45- IS- Very weak surface blow
30- FF- BOB 12 mins. Built to 29.14"
40- FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1584.91	95.61	Initial Hydro-static
1	28.43	94.93	Open To Flow (1)
28	191.57	109.33	Shut-In(1)
76	1001.79	106.89	End Shut-In(1)
77	195.51	107.03	Open To Flow (2)
103	289.24	110.71	Shut-In(2)
153	998.58	109.07	End Shut-In(2)
154	1547.95	106.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
560.00	SMW, 5%M 95%W	6.27

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

Job Ticket: 65002

DST#: 1

ATTN: Robert Hendrix

Test Start: 2018.11.18 @ 15:20:28

Tool Information

Drill Pipe:	Length: 3040.00 ft	Diameter: 3.82 inches	Volume: 43.09 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3242.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	58.00 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			3217.00	
Shut In Tool	5.00			3222.00	
Hydraulic tool	5.00			3227.00	
Gap Sub	3.00			3230.00	
Safety Joint	3.00			3233.00	
Packer	5.00			3238.00	26.00 Bottom Of Top Packer
Packer	4.00			3242.00	
Stubb	1.00			3243.00	
Recorder	0.00	6771	Inside	3243.00	
Recorder	0.00	6753	Outside	3243.00	
Perforations	28.00			3271.00	
Bullnose	3.00			3274.00	32.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

Job Ticket: 65002

DST#: 1

ATTN: Robert Hendrix

Test Start: 2018.11.18 @ 15:20:28

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: 133000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
560.00	SMW, 5%M 95%W	6.272

Total Length: 560.00 ft Total Volume: 6.272 bbl

Num Fluid Samples: 0

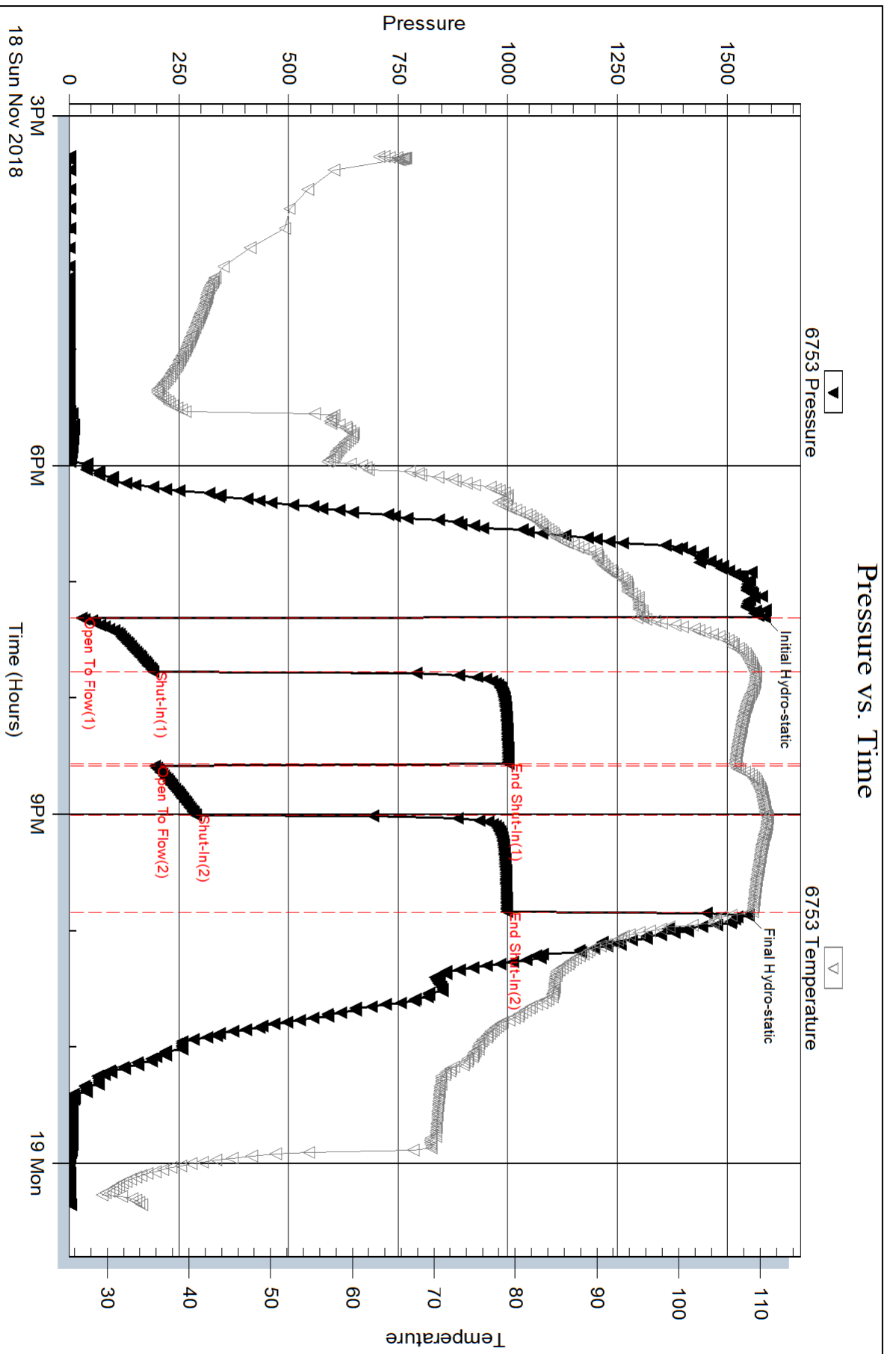
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .09@41deg



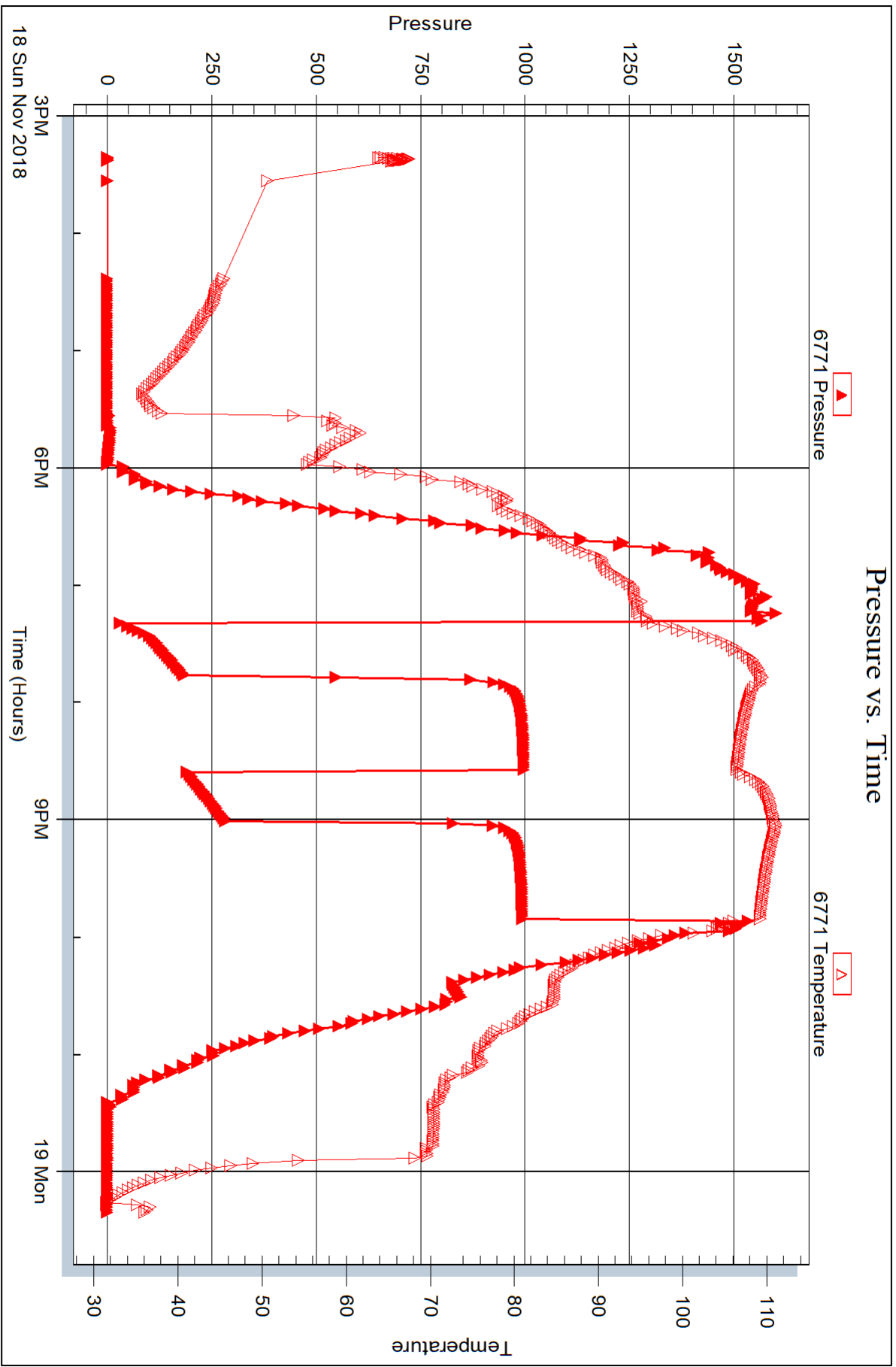
Serial #: 6771

Inside

Cobalt Energy LLC

Before Unit 'A' 1-23

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Robert Hendrix

Befort Unit 'A' 1-23

23-13S-19W Ellis,KS

Start Date: 2018.11.19 @ 15:02:35

End Date: 2018.11.20 @ 00:57:05

Job Ticket #: 65003 DST #: 2

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

Printed: 2018.11.27 @ 08:27:50



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

ATTN: Robert Hendrix

Job Ticket: 65003

DST#: 2

Test Start: 2018.11.19 @ 15:02:35

GENERAL INFORMATION:

Formation: **LKC "C - D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:27:35

Time Test Ended: 00:57:05

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3360.00 ft (KB) To 3408.00 ft (KB) (TVD)

Reference Elevations: 2037.00 ft (KB)

Total Depth: 3408.00 ft (KB) (TVD)

2032.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753

Outside

Press@RunDepth: 624.92 psig @ 3361.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.19 End Date: 2018.11.20

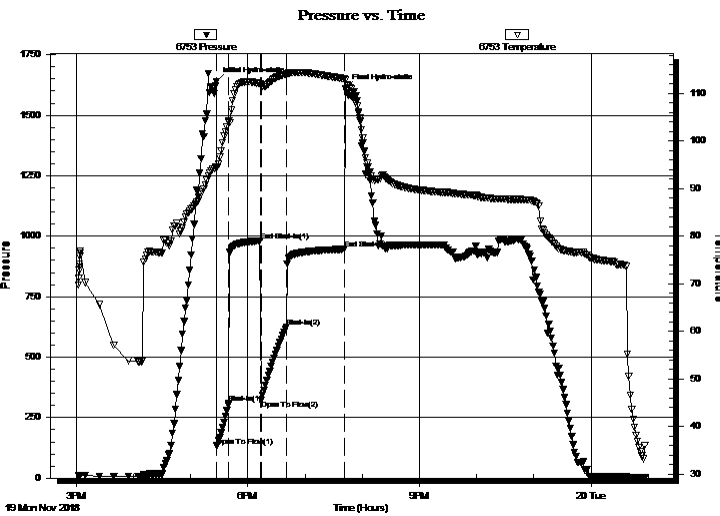
Last Calib.: 2018.11.20

Start Time: 15:02:40 End Time: 00:57:05

Time On Btm: 2018.11.19 @ 17:27:05

Time Off Btm: 2018.11.19 @ 19:42:35

TEST COMMENT: 15- IF- BOB 20 secs. Built to 246.75"
30- IS- BOB 6 mins. Built to 54.89"
30- FF- BOB 3 mins. Built to 292.72"
60- FSI- BOB 12 mins. Built to 57.41"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.29	94.63	Initial Hydro-static
1	133.55	94.31	Open To Flow (1)
13	309.27	104.26	Shut-In(1)
46	980.63	111.99	End Shut-In(1)
47	323.49	111.65	Open To Flow (2)
74	624.92	114.02	Shut-In(2)
135	946.33	113.03	End Shut-In(2)
136	1608.82	112.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2056.00	CGO, 30%G 70%O	27.48
0.00	GTS(FSI)	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

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

Job Ticket: 65003

DST#: 2

ATTN: Robert Hendrix

Test Start: 2018.11.19 @ 15:02:35

Tool Information

Drill Pipe:	Length: 3167.00 ft	Diameter: 3.82 inches	Volume: 44.89 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3360.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3335.00	
Shut In Tool	5.00			3340.00	
Hydraulic tool	5.00			3345.00	
Gap Sub	3.00			3348.00	
Safety Joint	3.00			3351.00	
Packer	5.00			3356.00	26.00 Bottom Of Top Packer
Packer	4.00			3360.00	
Stubb	1.00			3361.00	
Recorder	0.00	6771	Inside	3361.00	
Recorder	0.00	6753	Outside	3361.00	
Perforations	5.00			3366.00	
Change Over Sub	1.00			3367.00	
Drill Pipe	32.00			3399.00	
Change Over Sub	1.00			3400.00	
Perforations	5.00			3405.00	
Bullnose	3.00			3408.00	48.00 Bottom Packers & Anchor
Total Tool Length:	74.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

Job Ticket: 65003

DST#: 2

ATTN: Robert Hendrix

Test Start: 2018.11.19 @ 15:02:35

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2056.00	CGO, 30%G 70%O	27.478
0.00	GTS(FSI)	0.000

Total Length: 2056.00 ft Total Volume: 27.478 bbl

Num Fluid Samples: 0

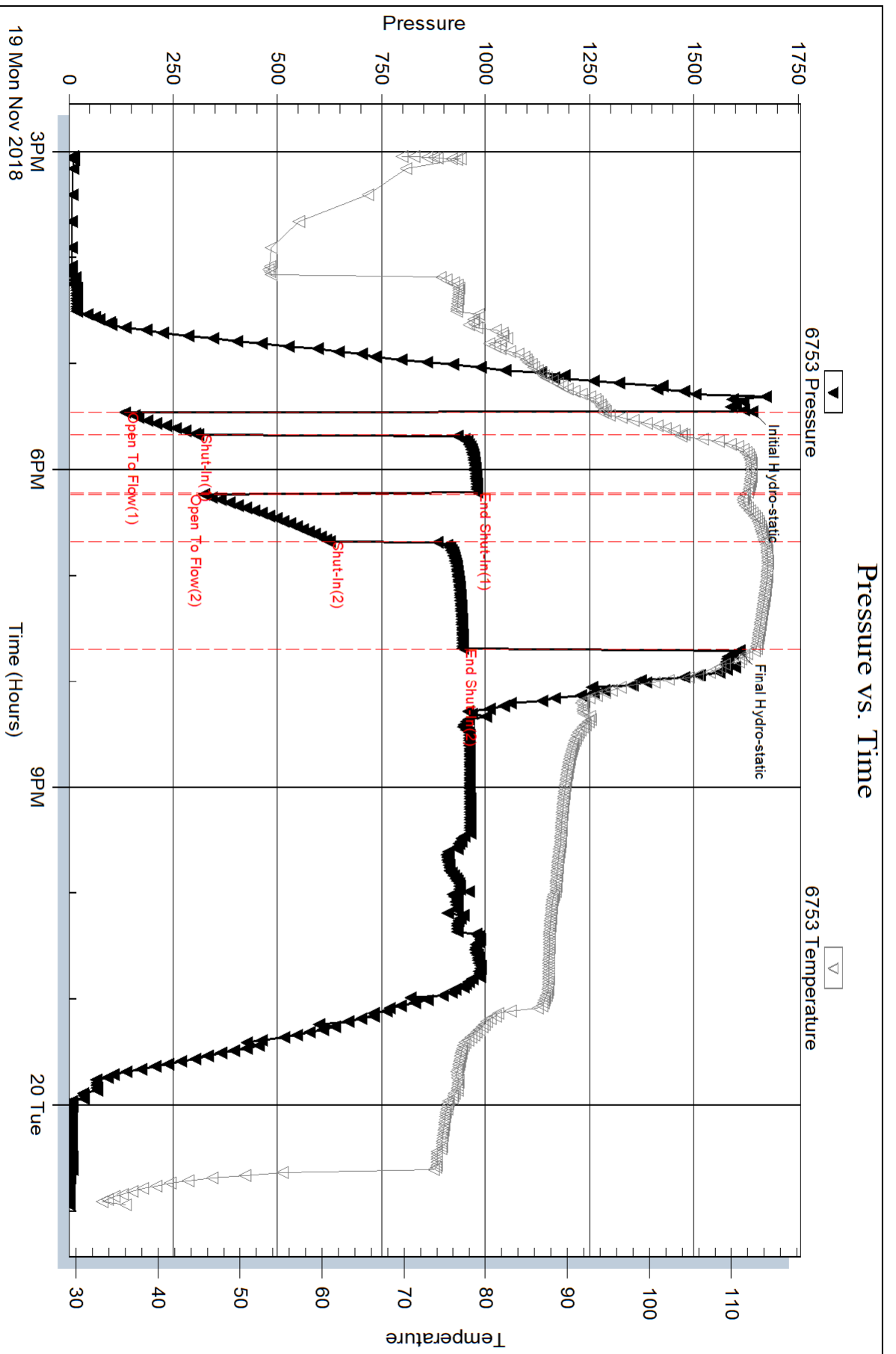
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



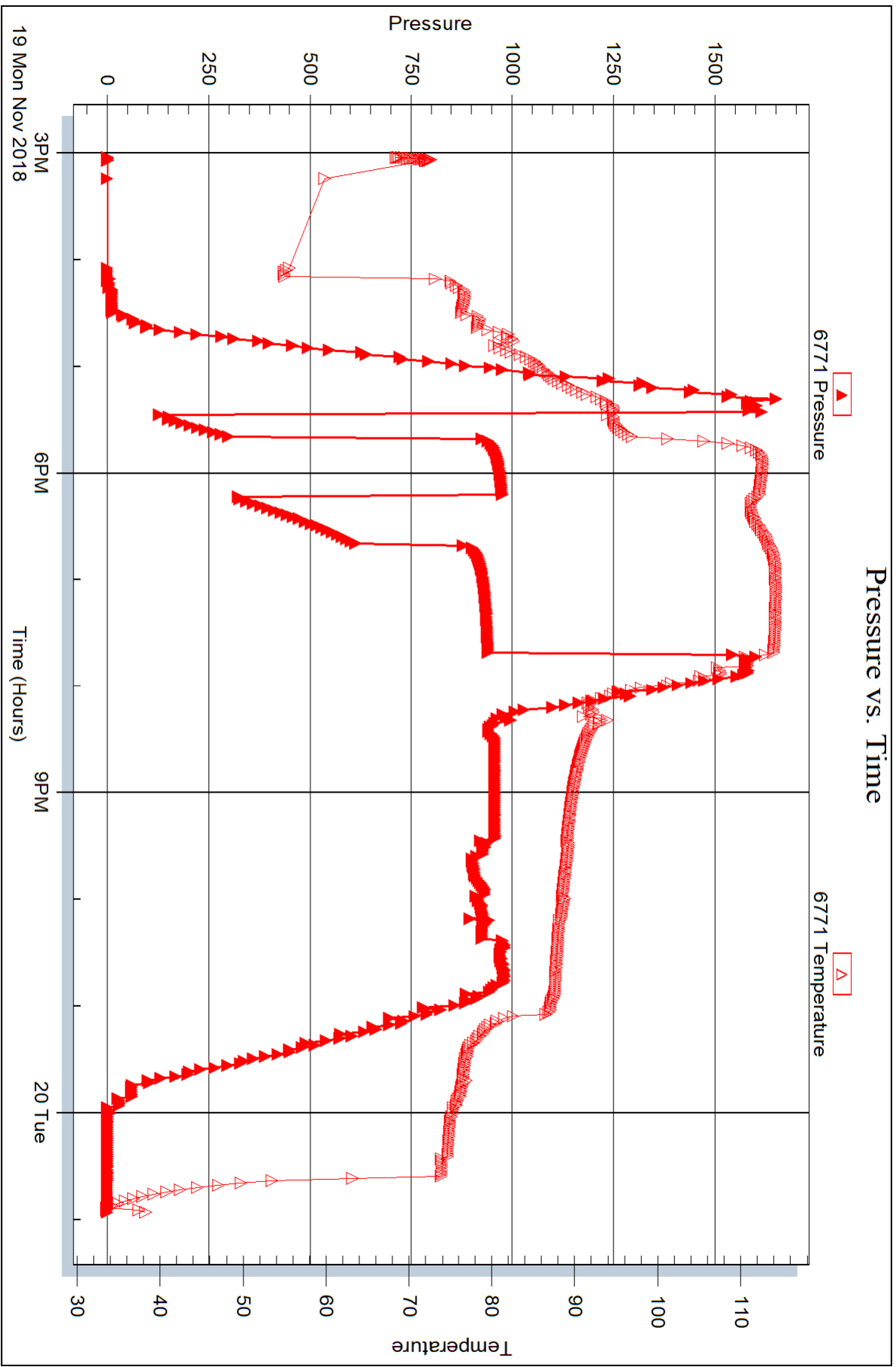
Serial #: 6771

Inside

Cobalt Energy LLC

Before Unit 'A' 1-23

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Robert Hendrix

Befort Unit 'A' 1-23

23-13S-19W Ellis,KS

Start Date: 2018.11.20 @ 08:14:39

End Date: 2018.11.20 @ 17:06:09

Job Ticket #: 65004 DST #: 3

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

Printed: 2018.11.27 @ 08:25:30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

ATTN: Robert Hendrix

Job Ticket: 65004

DST#: 3

Test Start: 2018.11.20 @ 08:14:39

GENERAL INFORMATION:

Formation: **LKC "E - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:05:39

Time Test Ended: 17:06:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3406.00 ft (KB) To 3433.00 ft (KB) (TVD)

Reference Elevations: 2037.00 ft (KB)

Total Depth: 3433.00 ft (KB) (TVD)

2032.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753 Outside

Press@RunDepth: 110.43 psig @ 3407.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.20 End Date: 2018.11.20

Last Calib.: 2018.11.20

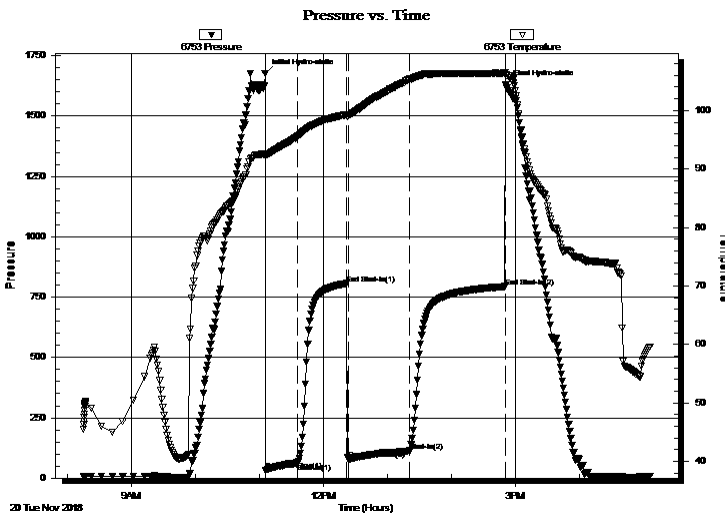
Start Time: 08:14:44 End Time: 17:06:09

Time On Btm: 2018.11.20 @ 11:05:09

Time Off Btm: 2018.11.20 @ 14:51:09

TEST COMMENT: 30- IF- Slow ly built to 11.15"
45- IS- Slow ly built to 3.02"
60- FF- Slow ly built to 10.88"
90- FSI- Very weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1676.68	92.62	Initial Hydro-static
1	32.46	92.28	Open To Flow (1)
31	63.41	95.60	Shut-In(1)
76	806.21	99.27	End Shut-In(1)
78	79.23	99.18	Open To Flow (2)
135	110.43	105.32	Shut-In(2)
226	793.90	106.37	End Shut-In(2)
226	1631.63	106.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	VWOCM, 40%W 15%O 45%M	0.30
140.00	OCM, 25%O 75%M	0.87
0.00	105' 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

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

Job Ticket: 65004

DST#: 3

ATTN: Robert Hendrix

Test Start: 2018.11.20 @ 08:14:39

Tool Information

Drill Pipe:	Length: 3231.00 ft	Diameter: 3.82 inches	Volume: 45.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 57000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3406.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	53.00 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			3381.00	
Shut In Tool	5.00			3386.00	
Hydraulic tool	5.00			3391.00	
Gap Sub	3.00			3394.00	
Safety Joint	3.00			3397.00	
Packer	5.00			3402.00	26.00 Bottom Of Top Packer
Packer	4.00			3406.00	
Stubb	1.00			3407.00	
Recorder	0.00	6771	Inside	3407.00	
Recorder	0.00	6753	Outside	3407.00	
Perforations	23.00			3430.00	
Bullnose	3.00			3433.00	27.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

Job Ticket: 65004

DST#: 3

ATTN: Robert Hendrix

Test Start: 2018.11.20 @ 08:14:39

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

77500 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	VWOCM, 40%W 15%O 45%M	0.295
140.00	OCM, 25%O 75%M	0.874
0.00	105' GIP	0.000

Total Length: 200.00 ft Total Volume: 1.169 bbl

Num Fluid Samples: 0

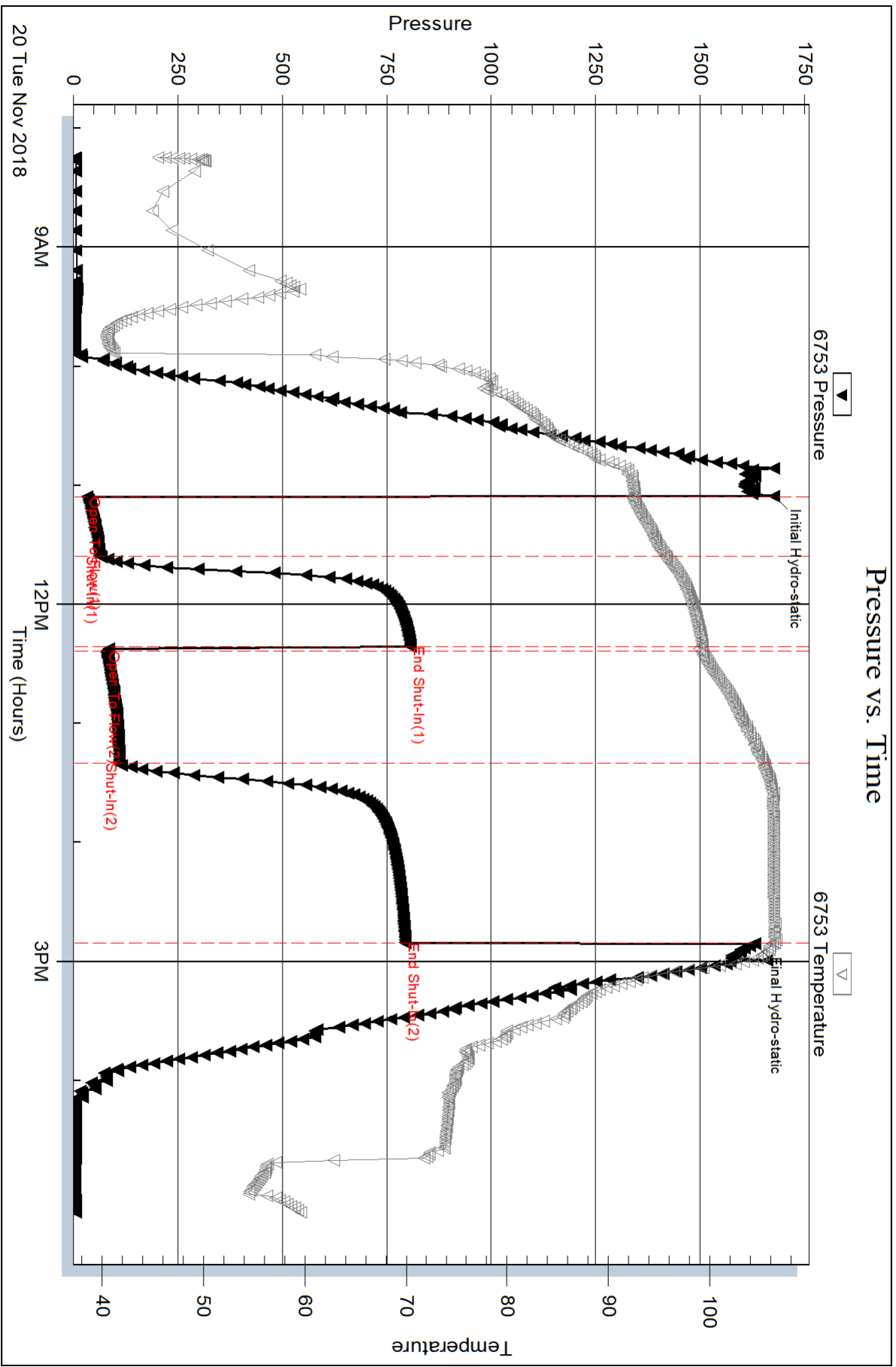
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .10@59deg



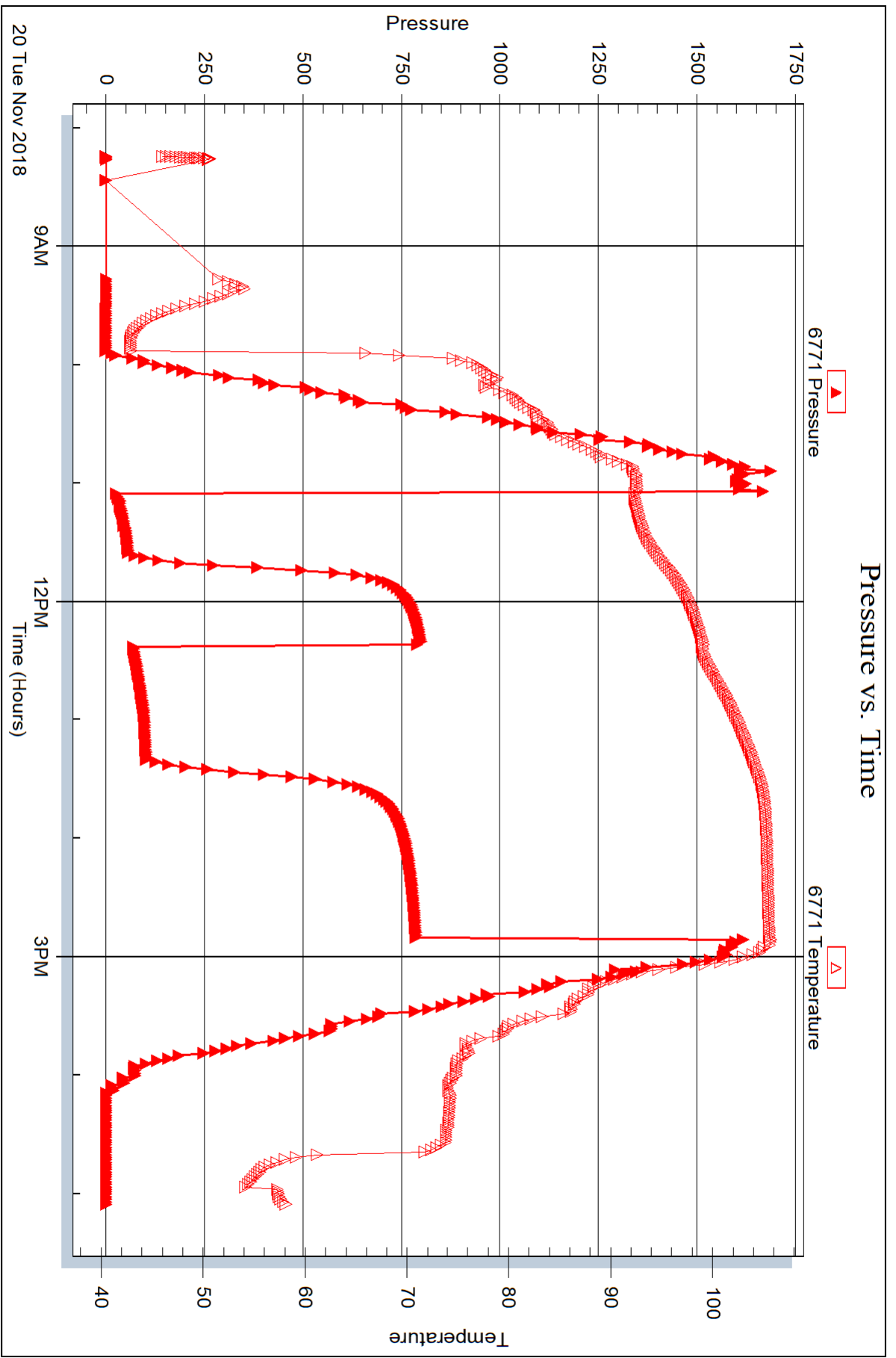
Serial #: 6771

Inside

Cobalt Energy LLC

Before Unit 'A' 1-23

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Robert Hendrix

Befort Unit 'A' 1-23

23-13S-19W Ellis,KS

Start Date: 2018.11.20 @ 23:46:32

End Date: 2018.11.21 @ 06:43:32

Job Ticket #: 65005 DST #: 4

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

Printed: 2018.11.27 @ 08:24:01

Cobalt Energy LLC
23-13S-19W Ellis,KS
Befort Unit 'A' 1-23
DST # 4
LKC "G"
2018.11.20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

ATTN: Robert Hendrix

Job Ticket: 65005

DST#: 4

Test Start: 2018.11.20 @ 23:46:32

GENERAL INFORMATION:

Formation: **LKC "G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:42:02
 Time Test Ended: 06:43:32
 Interval: **3434.00 ft (KB) To 3456.00 ft (KB) (TVD)**
 Total Depth: 3456.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2037.00 ft (KB)
 2032.00 ft (CF)
 KB to GR/CF: 5.00 ft

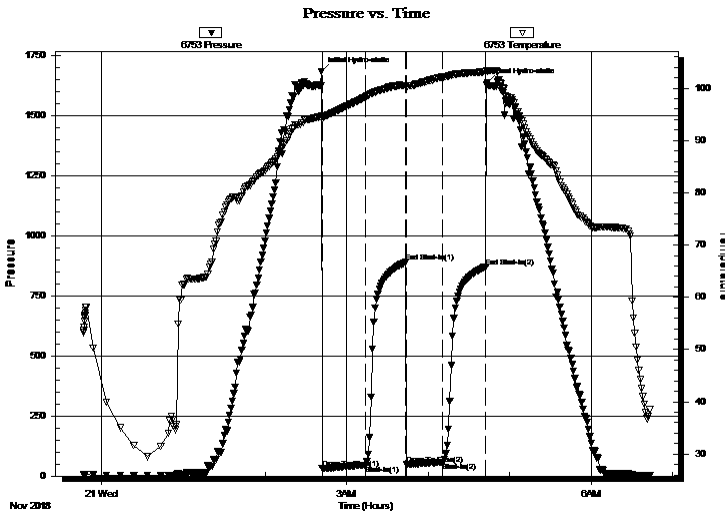
Serial #: 6753

Outside

Press@RunDepth: 57.44 psig @ 3435.00 ft (KB)
 Start Date: 2018.11.20 End Date: 2018.11.21
 Start Time: 23:46:37 End Time: 06:43:31
 Capacity: 8000.00 psig
 Last Calib.: 2018.11.21
 Time On Btm: 2018.11.21 @ 02:41:32
 Time Off Btm: 2018.11.21 @ 04:43:32

TEST COMMENT: 30- IF- Slow ly built to 1.88"
 30- IS- No blow
 30- FF- Slow ly built to 1.68"
 30- FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1684.62	94.63	Initial Hydro-static
1	31.19	93.99	Open To Flow (1)
33	46.13	98.35	Shut-In(1)
62	889.83	100.55	End Shut-In(1)
63	49.06	100.51	Open To Flow (2)
89	57.44	102.16	Shut-In(2)
121	871.77	103.13	End Shut-In(2)
122	1638.29	103.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	OSM	0.37

* 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

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

Job Ticket: 65005

DST#: 4

ATTN: Robert Hendrix

Test Start: 2018.11.20 @ 23:46:32

Tool Information

Drill Pipe:	Length: 3263.00 ft	Diameter: 3.82 inches	Volume: 46.25 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 69000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3434.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	48.00 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			3409.00	
Shut In Tool	5.00			3414.00	
Hydraulic tool	5.00			3419.00	
Gap Sub	3.00			3422.00	
Safety Joint	3.00			3425.00	
Packer	5.00			3430.00	26.00 Bottom Of Top Packer
Packer	4.00			3434.00	
Stubb	1.00			3435.00	
Recorder	0.00	6771	Inside	3435.00	
Recorder	0.00	6753	Outside	3435.00	
Perforations	18.00			3453.00	
Bullnose	3.00			3456.00	22.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

Job Ticket: 65005

DST#: 4

ATTN: Robert Hendrix

Test Start: 2018.11.20 @ 23:46:32

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: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	OSM	0.369

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

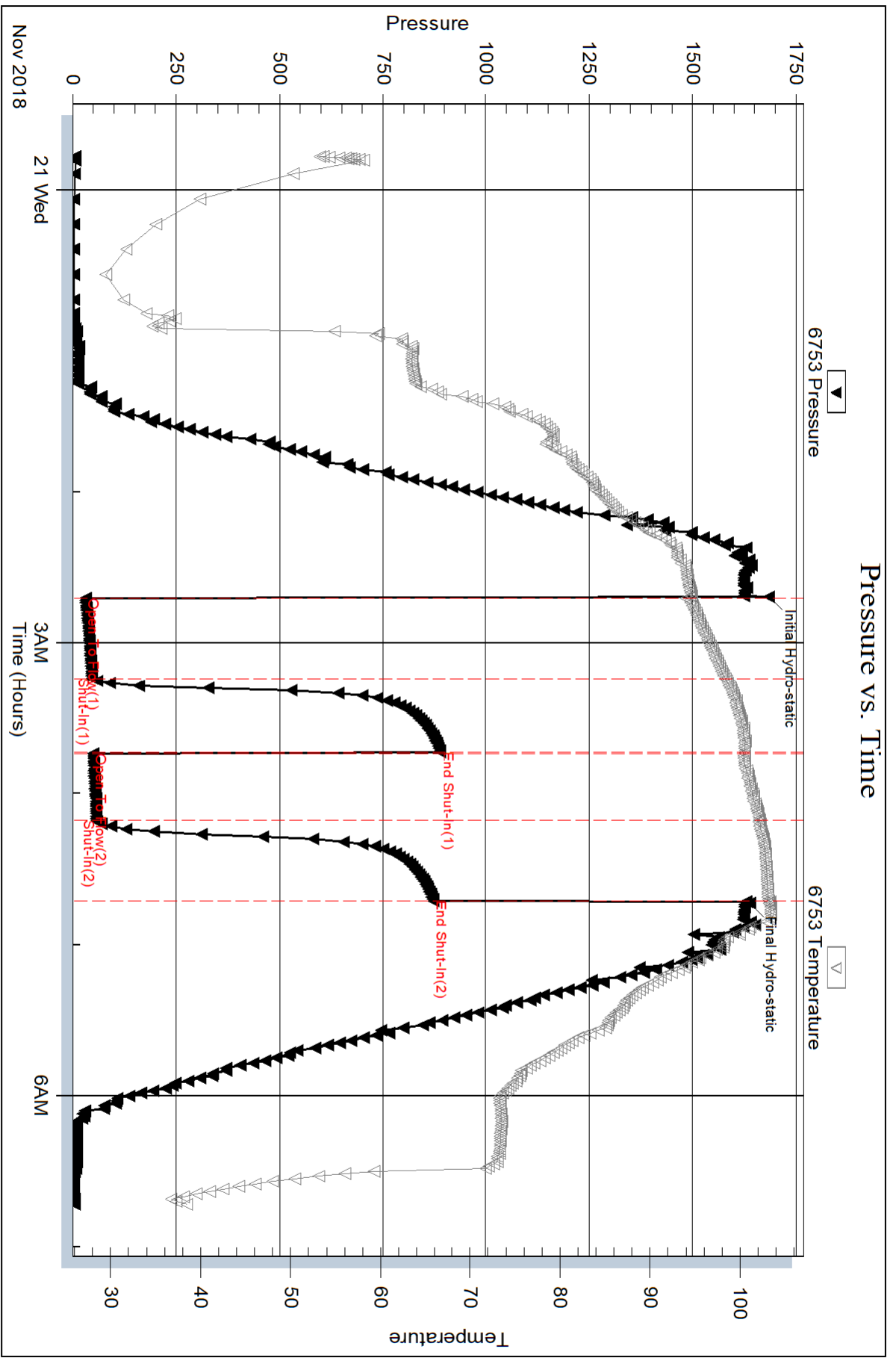
Num Gas Bombs: 0

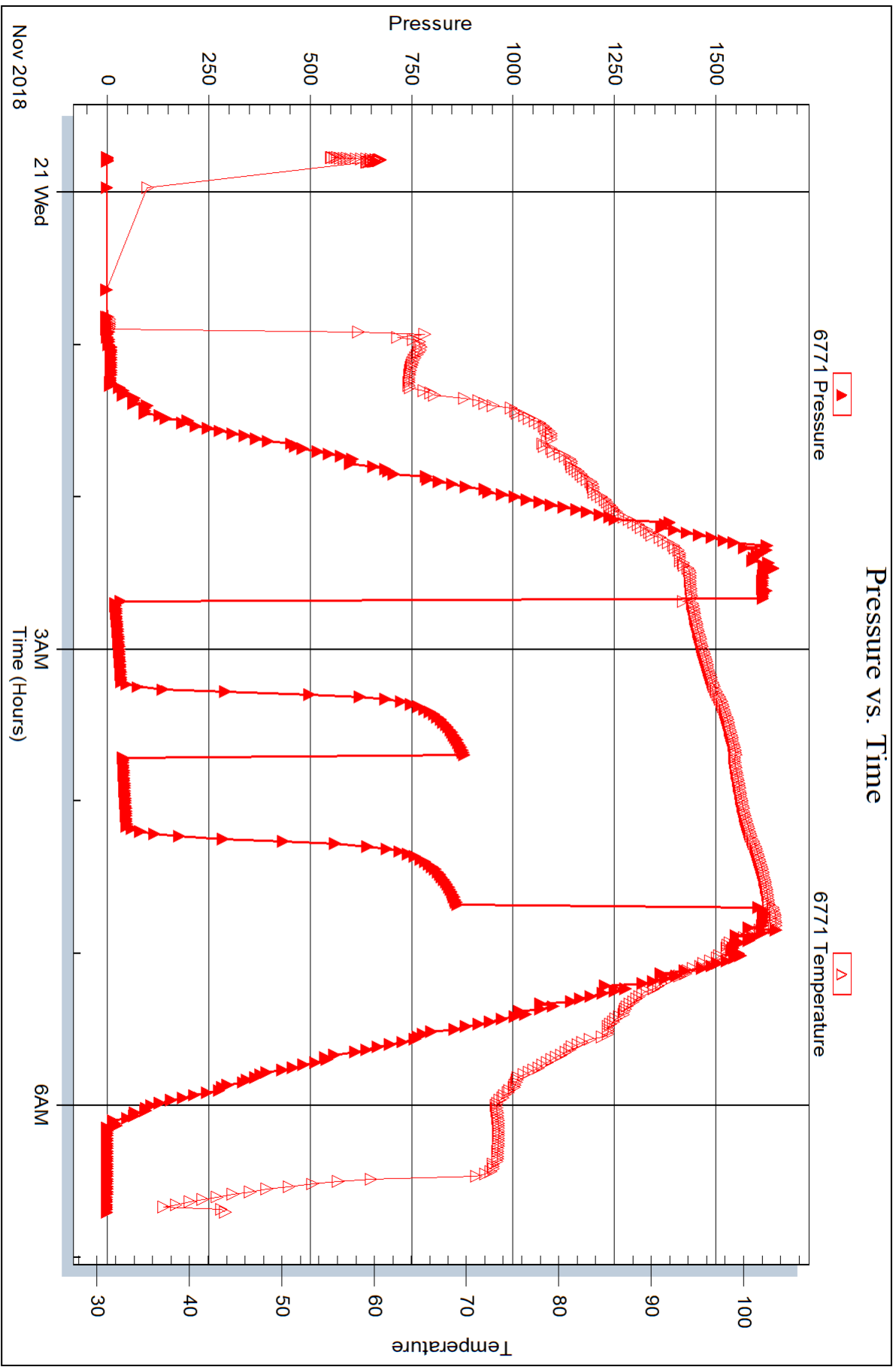
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Robert Hendrix

Befort Unit 'A' 1-23

23-13S-19W Ellis,KS

Start Date: 2018.11.21 @ 18:05:47

End Date: 2018.11.22 @ 02:26:53

Job Ticket #: 65006 DST #: 5

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

Printed: 2018.11.27 @ 08:23:36



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

ATTN: Robert Hendrix

Job Ticket: 65006

DST#: 5

Test Start: 2018.11.21 @ 18:05:47

GENERAL INFORMATION:

Formation: **LKC "H - J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:46:08
 Time Test Ended: 02:26:53
 Interval: **3468.00 ft (KB) To 3536.00 ft (KB) (TVD)**
 Total Depth: 3536.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2037.00 ft (KB)
 2032.00 ft (CF)
 KB to GR/CF: 5.00 ft

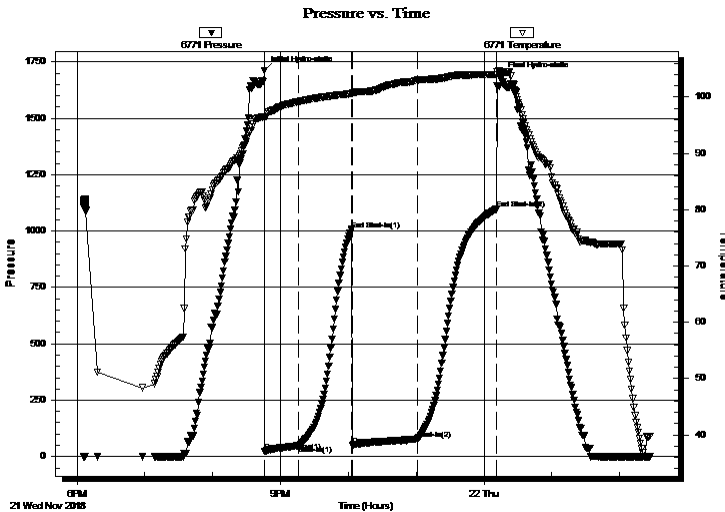
Serial #: 6771

Inside

Press@RunDepth: 77.76 psig @ 3469.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.11.21 End Date: 2018.11.22 Last Calib.: 2018.11.22
 Start Time: 18:05:48 End Time: 02:26:53 Time On Btm: 2018.11.21 @ 20:45:38
 Time Off Btm: 2018.11.22 @ 00:15:08

TEST COMMENT: 30- IF- Slow ly built to 4.09"
 45- IS- No blow
 60- FF- Slow ly built to 15.72" (BOB 39 mins)
 70- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1712.09	96.56	Initial Hydro-static
1	22.34	96.50	Open To Flow (1)
31	48.68	99.19	Shut-In(1)
78	1006.98	100.64	End Shut-In(1)
78	48.90	100.67	Open To Flow (2)
136	77.76	102.97	Shut-In(2)
206	1096.81	104.01	End Shut-In(2)
210	1685.75	104.42	Final Hydro-static

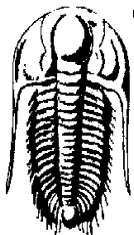
Recovery

Length (ft)	Description	Volume (bbl)
150.00	HOCM, 45%O 55%M	0.74
0.00	30' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

PO Box 8037
Wichita, KS 67208

ATTN: Robert Hendrix

23-13S-19W Ellis,KS

Befort Unit 'A' 1-23

Job Ticket: 65006

DST#: 5

Test Start: 2018.11.21 @ 18:05:47

GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:46:08

Time Test Ended: 02:26:53

Interval: **3468.00 ft (KB) To 3536.00 ft (KB) (TVD)**

Total Depth: 3536.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Reference Elevations: 2037.00 ft (KB)

2032.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Outside

Press@RunDepth: psig @ 3469.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.21

End Date:

2018.11.22

Last Calib.:

2018.11.22

Start Time: 18:05:39

End Time:

02:26:33

Time On Btm:

Time Off Btm:

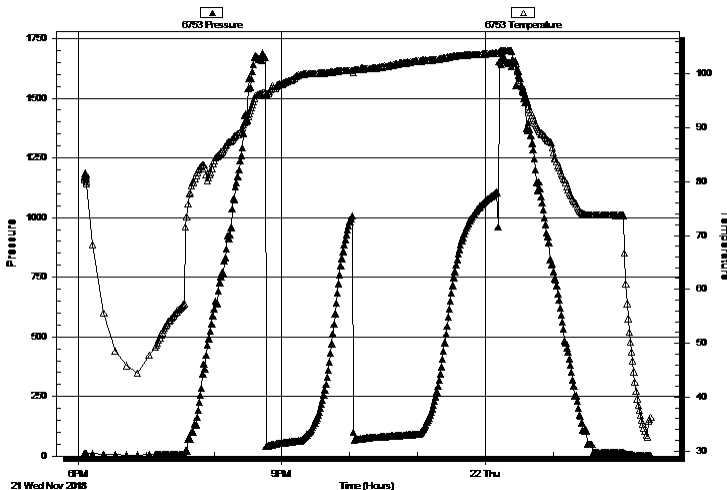
TEST COMMENT: 30- IF- Slow ly built to 4.09"

45- IS- No blow

60- FF- Slow ly built to 15.72" (BOB 39 mins)

70- FS- No blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
150.00	HOCM, 45%O 55%M	0.74
0.00	30' 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

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

Job Ticket: 65006

DST#: 5

ATTN: Robert Hendrix

Test Start: 2018.11.21 @ 18:05:47

Tool Information

Drill Pipe:	Length: 3295.00 ft	Diameter: 3.82 inches	Volume: 46.71 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	76000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	3468.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	68.00 ft				
Tool Length:	94.00 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			3443.00	
Shut In Tool	5.00			3448.00	
Hydraulic tool	5.00			3453.00	
Gap Sub	3.00			3456.00	
Safety Joint	3.00			3459.00	
Packer	5.00			3464.00	26.00 Bottom Of Top Packer
Packer	4.00			3468.00	
Stubb	1.00			3469.00	
Recorder	0.00	6771	Inside	3469.00	
Recorder	0.00	6753	Outside	3469.00	
Perforations	25.00			3494.00	
Change Over Sub	1.00			3495.00	
Drill Pipe	32.00			3527.00	
Change Over Sub	1.00			3528.00	
Perforations	5.00			3533.00	
Bullnose	3.00			3536.00	68.00 Bottom Packers & Anchor
Total Tool Length:	94.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

Job Ticket: 65006

DST#: 5

ATTN: Robert Hendrix

Test Start: 2018.11.21 @ 18:05:47

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	HOCM, 45%O 55%M	0.738
0.00	30' GIP	0.000

Total Length: 150.00 ft Total Volume: 0.738 bbl

Num Fluid Samples: 0

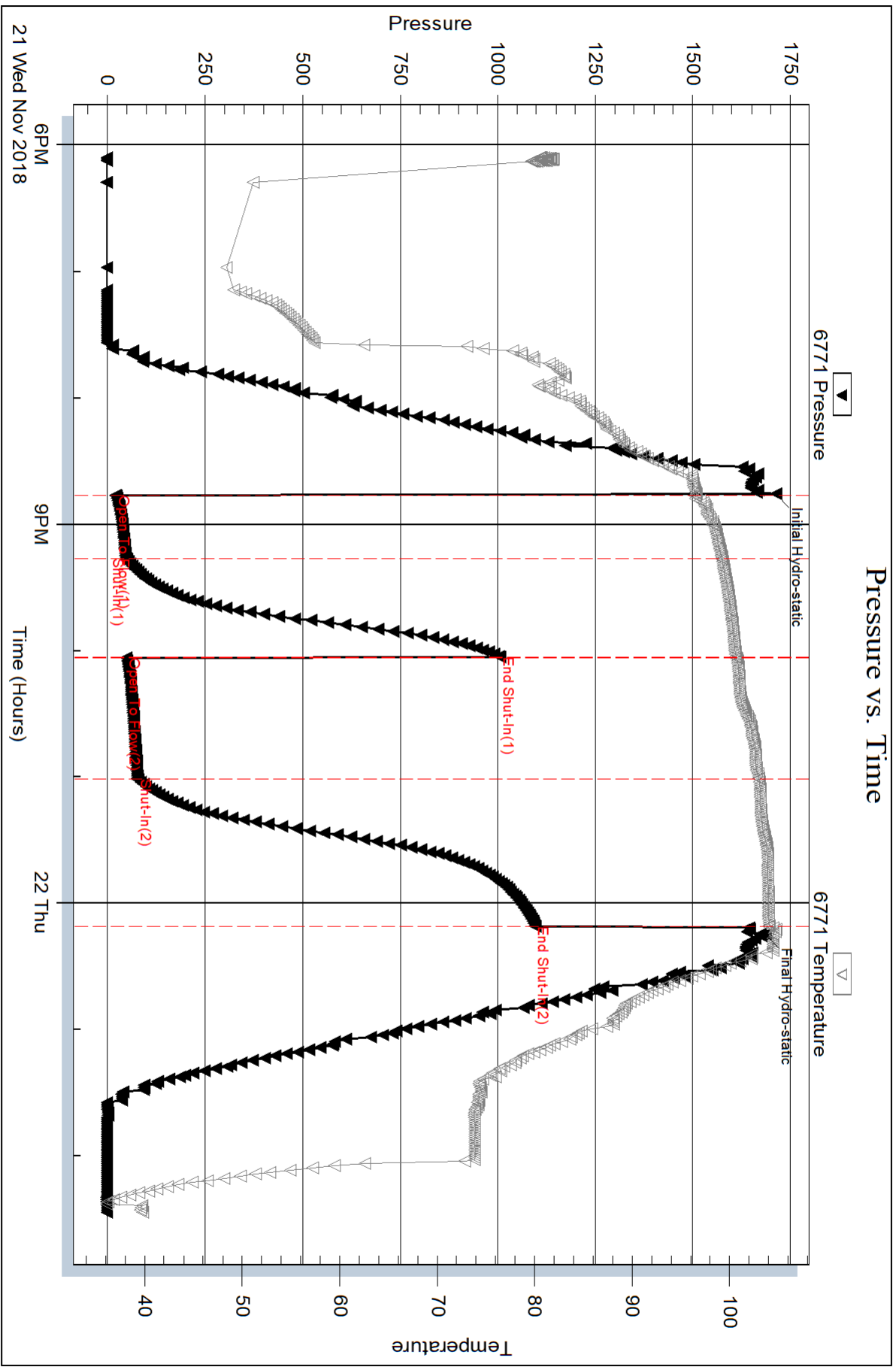
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

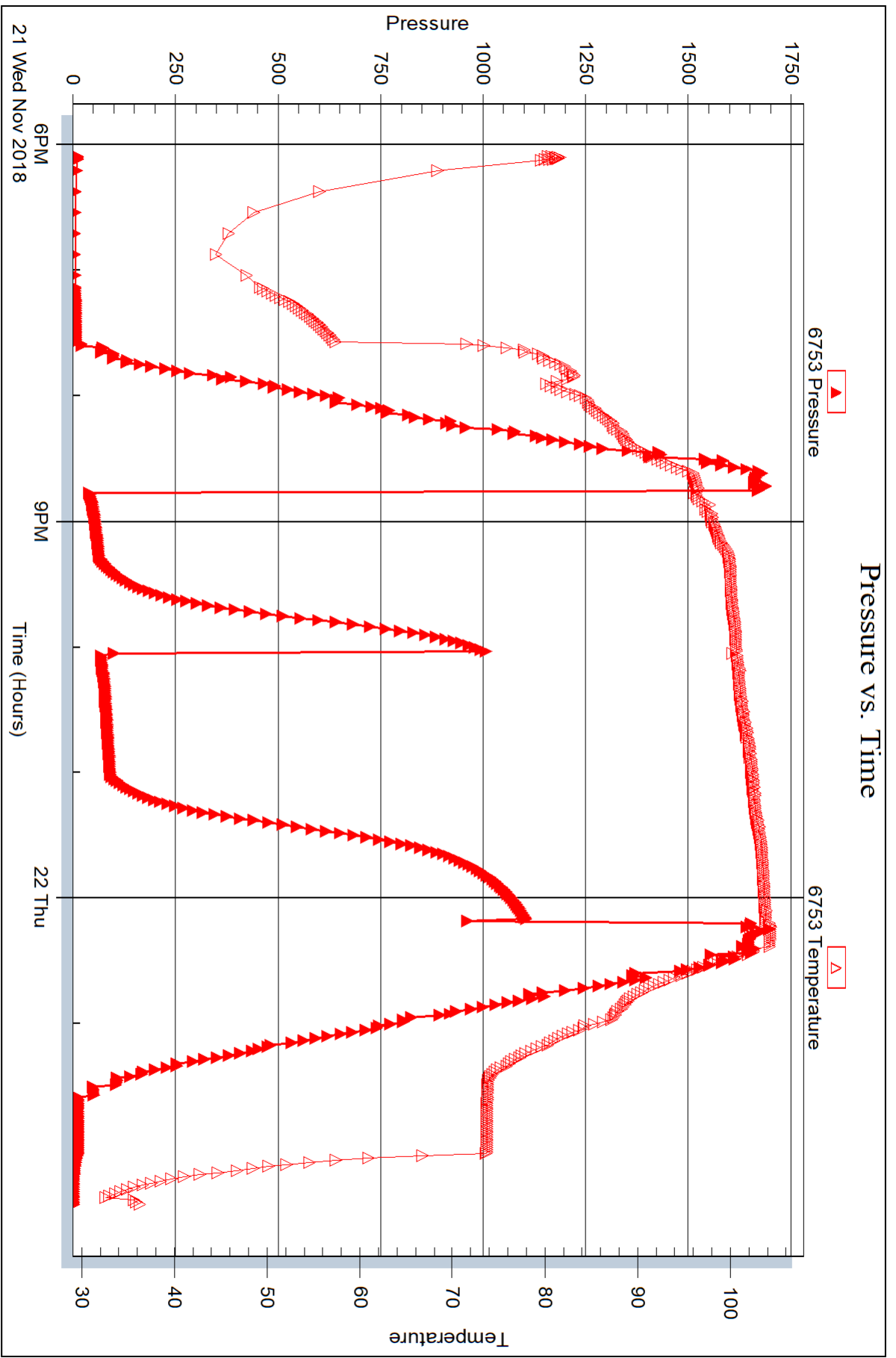


Serial #: 6753

Outside Cobalt Energy LLC

Before Unit 'A' 1-23

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 65006

Printed: 2018.11.27 @ 08:23:37



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Robert Hendrix

Befort Unit 'A' 1-23

23-13S-19W Ellis,KS

Start Date: 2018.11.22 @ 17:55:33

End Date: 2018.11.23 @ 01:51:39

Job Ticket #: 65007 DST #: 6

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

Printed: 2018.11.27 @ 08:23:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

ATTN: Robert Hendrix

Job Ticket: 65007

DST#: 6

Test Start: 2018.11.22 @ 17:55:33

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:42:54

Time Test Ended: 01:51:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3942.00 ft (KB) To 3690.00 ft (KB) (TVD)

Reference Elevations: 2037.00 ft (KB)

Total Depth: 3690.00 ft (KB) (TVD)

2032.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771 Inside

Press@RunDepth: 47.48 psig @ 3643.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.22

End Date:

2018.11.23

Last Calib.: 2018.11.23

Start Time: 17:55:34

End Time:

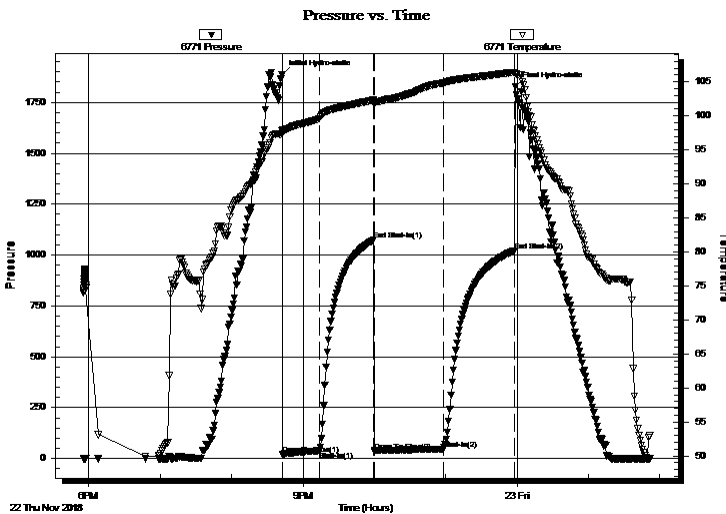
01:51:39

Time On Btm: 2018.11.22 @ 20:42:39

Time Off Btm: 2018.11.22 @ 23:58:24

TEST COMMENT: 30- IF- Slow ly built to 4.51"
45- IS- No blow
60- FF- Slow ly built to 0.91"
60- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1887.16	97.93	Initial Hydro-static
1	21.76	97.54	Open To Flow (1)
31	37.85	99.58	Shut-In(1)
77	1074.63	102.34	End Shut-In(1)
78	34.56	101.67	Open To Flow (2)
135	47.48	104.84	Shut-In(2)
195	1021.55	106.39	End Shut-In(2)
196	1827.50	106.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OSM	0.32

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

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

Job Ticket: 65007

DST#: 6

ATTN: Robert Hendrix

Test Start: 2018.11.22 @ 17:55:33

Tool Information

Drill Pipe:	Length: 3449.00 ft	Diameter: 3.82 inches	Volume: 48.89 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	53000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3642.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	48.00 ft				
Tool Length:	74.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3617.00	
Shut In Tool	5.00			3622.00	
Hydraulic tool	5.00			3627.00	
Gap Sub	3.00			3630.00	
Safety Joint	3.00			3633.00	
Packer	5.00			3638.00	26.00 Bottom Of Top Packer
Packer	4.00			3642.00	
Stubb	1.00			3643.00	
Recorder	0.00	6771	Inside	3643.00	
Recorder	0.00	6753	Outside	3643.00	
Perforations	5.00			3648.00	
Change Over Sub	1.00			3649.00	
Drill Pipe	32.00			3681.00	
Change Over Sub	1.00			3682.00	
Perforations	5.00			3687.00	
Bullnose	3.00			3690.00	48.00 Bottom Packers & Anchor
Total Tool Length:	74.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

Job Ticket: 65007

DST#: 6

ATTN: Robert Hendrix

Test Start: 2018.11.22 @ 17:55:33

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	OSM	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

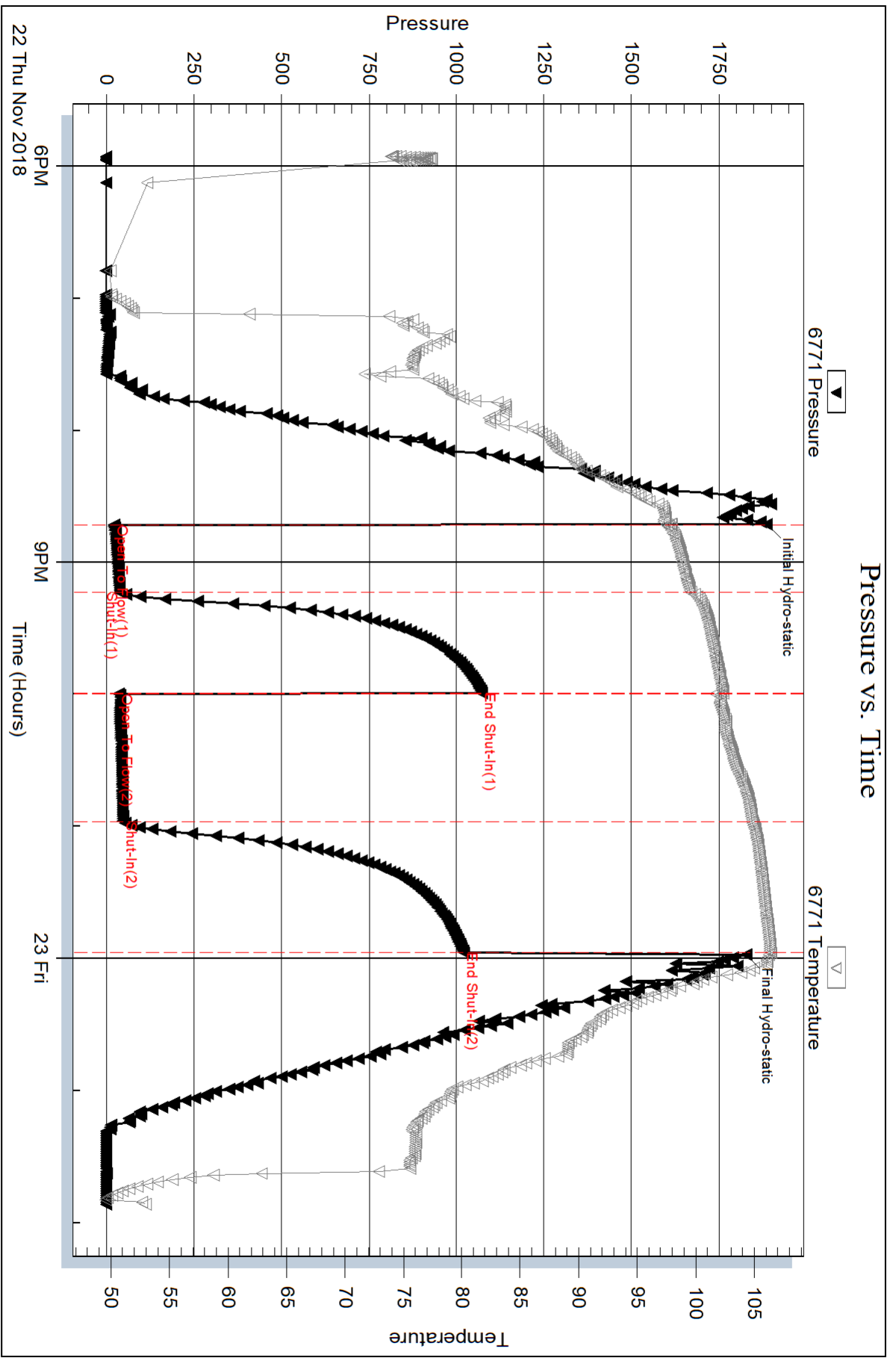
Num Gas Bombs: 0

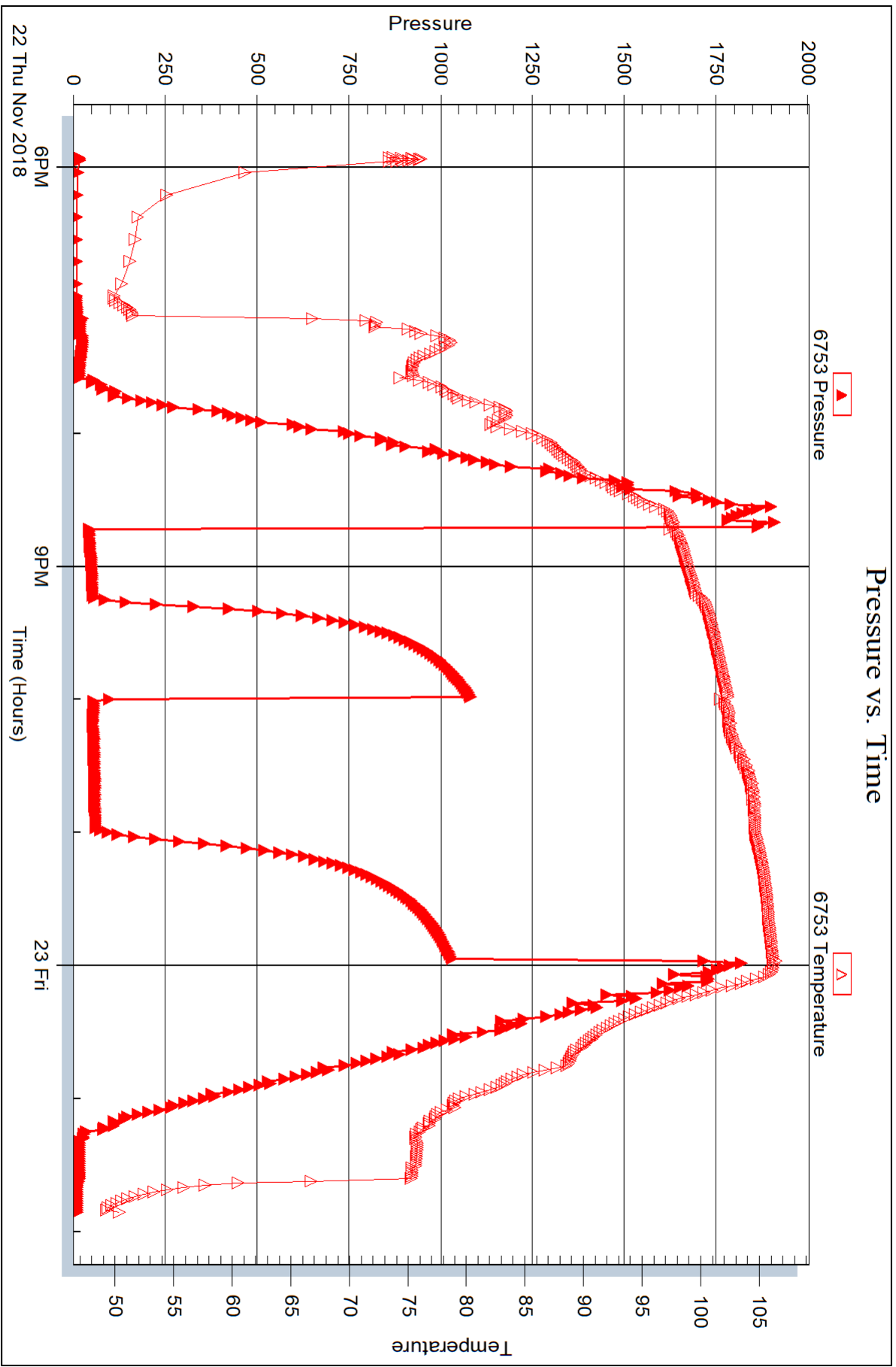
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Robert Hendrix

Befort Unit 'A' 1-23

23-13S-19W Ellis,KS

Start Date: 2018.11.23 @ 12:37:37

End Date: 2018.11.23 @ 22:23:42

Job Ticket #: 65008 DST #: 7

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

Printed: 2018.11.27 @ 08:22:48



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

ATTN: Robert Hendrix

Job Ticket: 65008

DST#: 7

Test Start: 2018.11.23 @ 12:37:37

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:32:28

Time Test Ended: 22:23:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3688.00 ft (KB) To 3700.00 ft (KB) (TVD)

Reference Elevations: 2037.00 ft (KB)

Total Depth: 3700.00 ft (KB) (TVD)

2032.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

Press@RunDepth: 381.42 psig @ 3689.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.23

End Date:

2018.11.23

Last Calib.:

2018.11.23

Start Time: 12:37:38

End Time:

22:23:42

Time On Btm:

2018.11.23 @ 17:32:13

Time Off Btm:

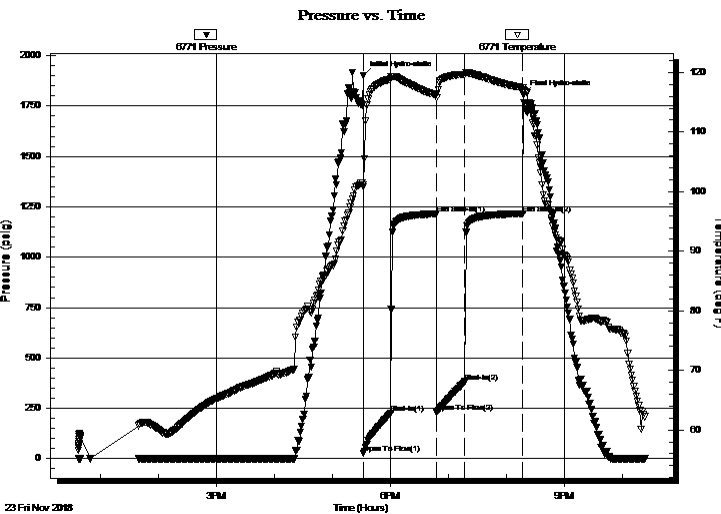
2018.11.23 @ 20:17:58

TEST COMMENT: 30- IF- BOB 4 mins. Built to 47.54"

45- IS- No blow

30- FF- BOB 10 mins. Built to 36.47"

60- FSI- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.51	101.13	Initial Hydro-static
1	25.73	100.77	Open To Flow (1)
29	227.36	118.91	Shut-In(1)
76	1215.43	116.27	End Shut-In(1)
77	231.67	115.76	Open To Flow (2)
105	381.42	119.70	Shut-In(2)
165	1216.29	117.43	End Shut-In(2)
166	1805.06	117.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
830.00	MW, 30%M 70%W	10.10

* 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

23-13S-19W Ellis, KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

Job Ticket: 65008

DST#: 7

ATTN: Robert Hendrix

Test Start: 2018.11.23 @ 12:37:37

Tool Information

Drill Pipe:	Length: 3512.00 ft	Diameter: 3.82 inches	Volume: 49.78 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3688.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	38.00 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			3663.00	
Shut In Tool	5.00			3668.00	
Hydraulic tool	5.00			3673.00	
Gap Sub	3.00			3676.00	
Safety Joint	3.00			3679.00	
Packer	5.00			3684.00	26.00 Bottom Of Top Packer
Packer	4.00			3688.00	
Stubb	1.00			3689.00	
Recorder	0.00	6771	Inside	3689.00	
Recorder	0.00	6753	Outside	3689.00	
Perforations	8.00			3697.00	
Bullnose	3.00			3700.00	12.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

23-13S-19W Ellis,KS

PO Box 8037
Wichita, KS 67208

Befort Unit 'A' 1-23

Job Ticket: 65008

DST#: 7

ATTN: Robert Hendrix

Test Start: 2018.11.23 @ 12:37:37

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:

40000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
830.00	MW, 30%M 70%W	10.099

Total Length: 830.00 ft Total Volume: 10.099 bbl

Num Fluid Samples: 0

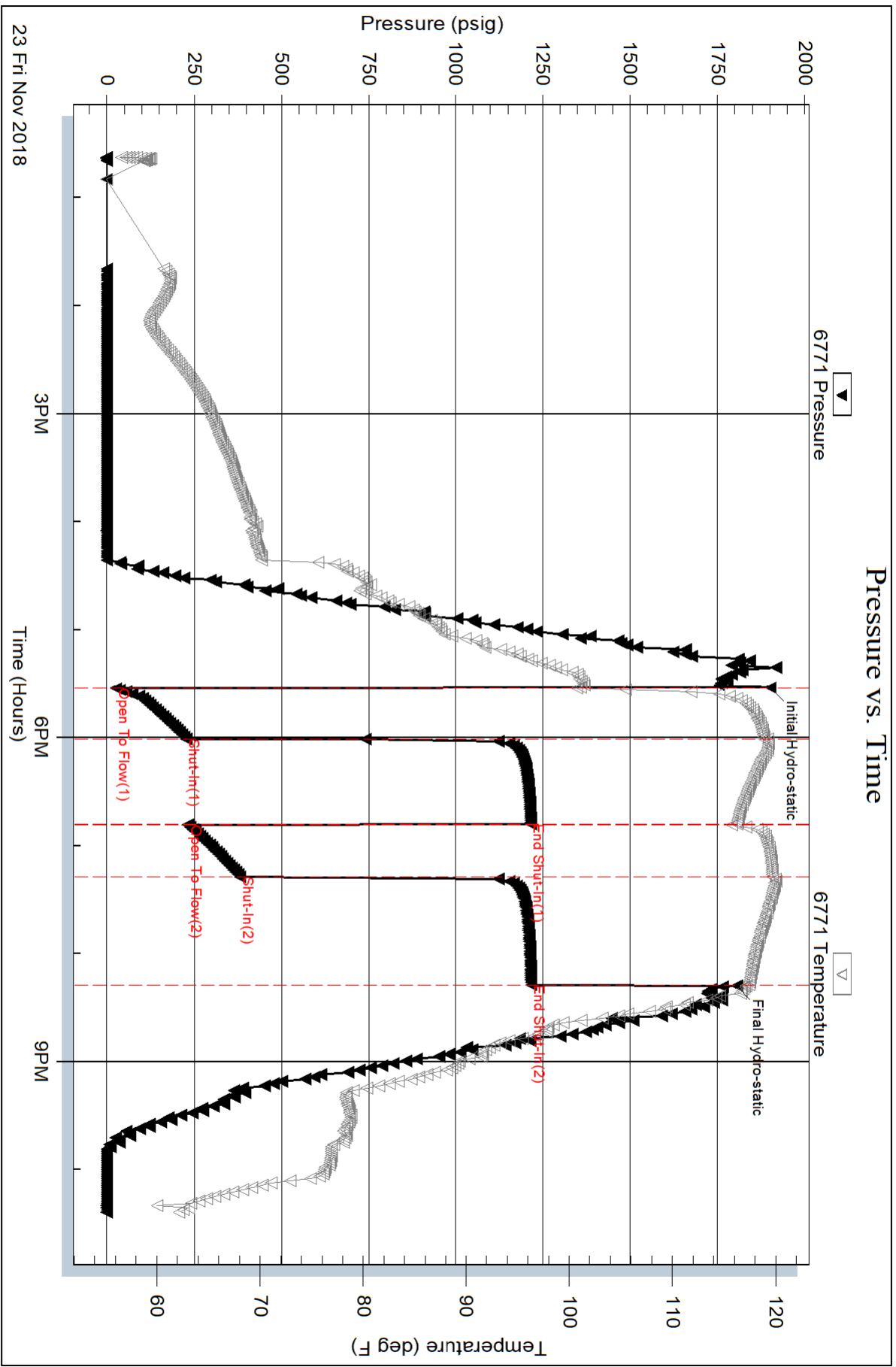
Num Gas Bombs: 0

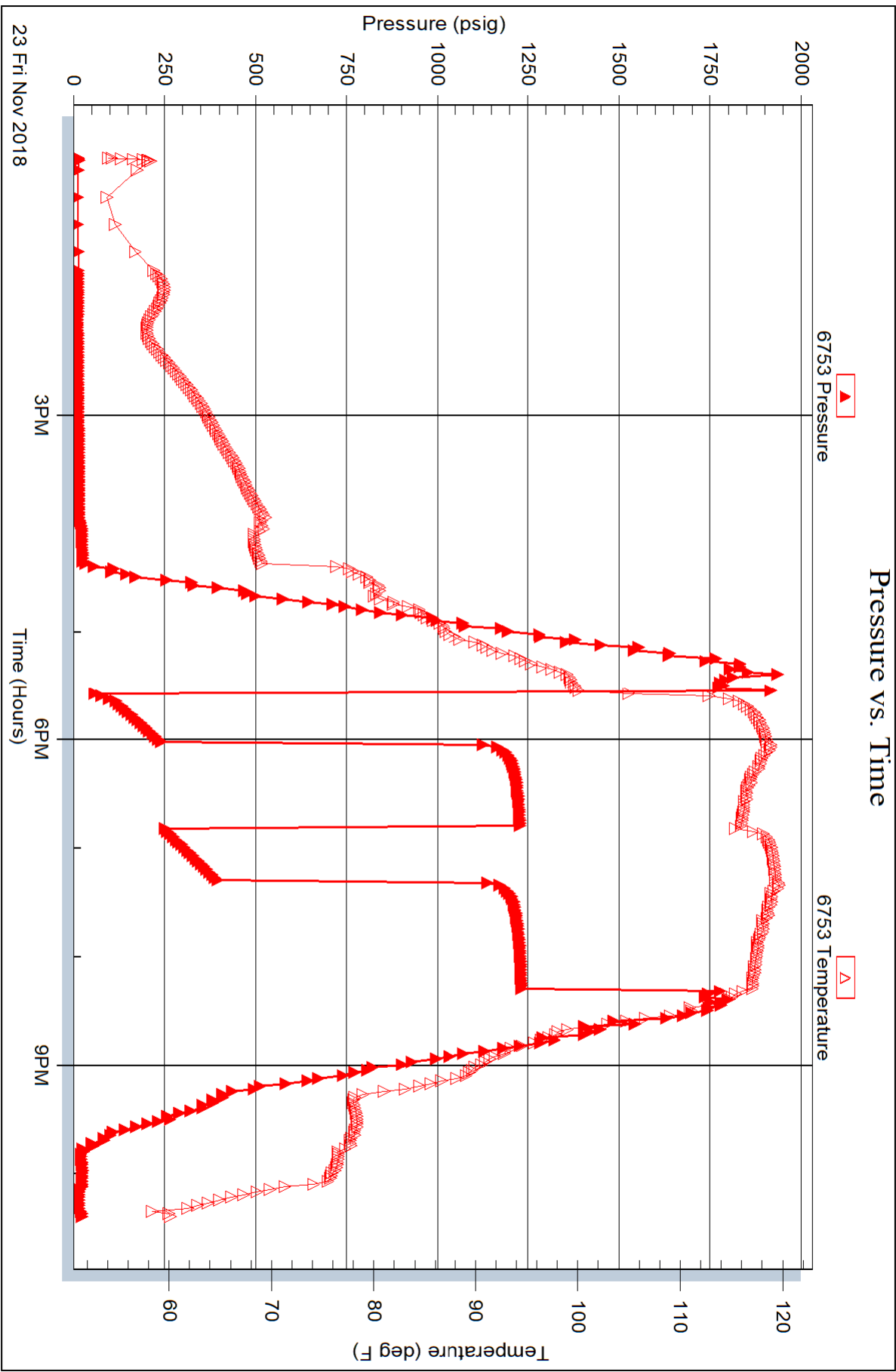
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .19@60deg







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65002

Well Name & No. Beafort Unit A #1-23 Test No. 1 Date 11/8/18
 Company Cobalt Energy LLC Elevation 2037 KB 2032 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Robert Hendrix Rig Murfin 8
 Location: Sec. 23 Twp 13 S Rge. 19 W Co. Ellis State KS

Interval Tested 3242-3274 Zone Tested Lower Topeka
 Anchor Length 32' Drill Pipe Run 3040 Mud Wt. 9.0
 Top Packer Depth 3237 Drill Collars Run 180 Vis 54
 Bottom Packer Depth 3242 Wt. Pipe Run _____ WL 6.0
 Total Depth 3274 Chlorides 4100 ppm System LCM 2#

Blow Description IF-BOTD 12 mins. Built to 33.10"
ISI - Very weak surface flow
FF-BOTB 12 mins. Built for 29.14"
BI - No blow

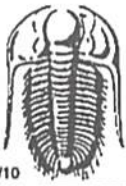
Rec	Feet of	%gas	%oil	%water	%mud
<u>560</u>	<u>MW</u>			<u>95</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 560' BHT 109° Gravity _____ API RW .09 @ 41 °F Chlorides 133000 ppm

(A) Initial Hydrostatic <u>1585</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1455</u>
(B) First Initial Flow <u>28</u>	<input type="checkbox"/> Jars _____	T-Started <u>1521</u>
(C) First Final Flow <u>192</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1918</u>
(D) Initial Shut-In <u>1002</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2143</u>
(E) Second Initial Flow <u>196</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>11/9</u> <u>0021</u>
(F) Second Final Flow <u>289</u>	<input checked="" type="checkbox"/> Mileage <u>20 RT</u> <u>20</u>	Comments _____
(G) Final Shut-In <u>999</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1548</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>40</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1145</u>
	Sub Total <u>1145</u>	MP/DST Disc't _____

Approved By _____ Our Representative Brennan Louisdale

Tritobite 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. 65003

Well Name & No. Beafort Unit A #1-23 Test No. 2 Date 11/19/18
 Company Cobalt Energy LLC Elevation 2037 KB 2632 GL
 Address 115 S Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Robert Hendrix Rig Murfin 8
 Location: Sec. 23 Twp 13 S Rge. 19 W Co. Ellis State KS

Interval Tested 3360-3408 Zone Tested Lansing "C+D"
 Anchor Length 48' Drill Pipe Run 3167 Mud Wt. 9.1
 Top Packer Depth 3355 Drill Collars Run 180 Vis 55
 Bottom Packer Depth 3360 Wt. Pipe Run --- WL 6.4
 Total Depth 3408 Chlorides 4900 ppm System LCM 2#

Blow Description IF-BOB 20secs. Built to 246.75"
ISF-BOB 6mins. Built to 54.89"
FF-BOB 3mins. Built to 292.72"
FSF-BOB 12mins. Built to 57.41"

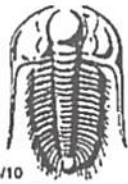
Rec	Feet of	%gas	%oil	%water	%mud
<u>2056</u>	<u>CGO</u>	<u>30</u>	<u>70</u>		
Rec	Feet of <u>GTS (FSI)</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2056 BHT 113° Gravity 38 API RW --- @ --- F Chlorides --- ppm
 (A) Initial Hydrostatic 1640 Test 1050 T-On Location 1443
 (B) First Initial Flow 137 Jars --- T-Started 1502
 (C) First Final Flow 309 Safety Joint 75 T-Open 1726
 (D) Initial Shut-In 981 Circ Sub 50 T-Pulled 1941
 (E) Second Initial Flow 323 Hourly Standby 1.25h 100 T-Out 11/20 0056
 (F) Second Final Flow 625 Mileage 20 RT 20 Comments Wait on trucks
 (G) Final Shut-In 946 Sampler ---
 (H) Final Hydrostatic 1609 Straddle --- EM Tool 350
 Shale Packer --- Ruined Shale Packer ---
 Extra Packer --- Ruined Packer ---
 Extra Recorder --- Extra Copies ---

Initial Open 15
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 60
 Sub Total 1295
 Sub Total 1295
 Sub Total 0
 Total 1295
 MP/DST Disc't ---

Approved By _____ Our Representative Brennan Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65004

Well Name & No. Reform Unit "A" #1-23 Test No. 3 Date 11/20/18
 Company Cobalt Energy LLC Elevation 2037 KB 2032 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Robert Hendrix Rig Martin 8
 Location: Sec. 23 Twp 13 S Rge. 19 W Co. Ellis State KS

Interval Tested 3406-3433 Zone Tested Lansing "F&F"
 Anchor Length 27' Drill Pipe Run 3231 Mud Wt. 9.0
 Top Packer Depth 3401 Drill Collars Run 180 Vis 61
 Bottom Packer Depth 3406 Wt. Pipe Run _____ WL 6.4
 Total Depth 3433 Chlorides 4,500 ppm System LCM 2#

Blow Description IF - slowly built to 11.15"
BSI - slowly built to 3.02"
FF - slowly built to 10.88"
FST - Very weak surface blow

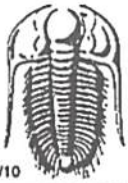
Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>VWOCM</u>		<u>15</u>	<u>40</u>	<u>45</u>
<u>140</u>	<u>OCM</u>		<u>25</u>		<u>25</u>
	<u>105' GIP</u>				

Rec Total 200 BHT 106° Gravity 33 API RW .10 @ 59 °F Chlorides 72,500 ppm

(A) Initial Hydrostatic <u>1627</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0755</u>
(B) First Initial Flow <u>32</u>	<input type="checkbox"/> Jars _____	T-Started <u>0814</u>
(C) First Final Flow <u>63</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1105</u>
(D) Initial Shut-In <u>806</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1450</u>
(E) Second Initial Flow <u>79</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1706</u>
(F) Second Final Flow <u>110</u>	<input checked="" type="checkbox"/> Mileage <u>20RT 20</u>	Comments _____
(G) Final Shut-In <u>794</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1632</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</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>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1495</u>
	Sub Total <u>1145</u>	MP/DST Disc't _____

Approved By _____ Our Representative Brannan Lousdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65005

Well Name & No. Reform Unit "A" #1-23 Test No. 4 Date 11/21/18
 Company Cobalt Energy LLC Elevation 2037 KB 2032 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Robert Hendrix Rig Martin 8
 Location: Sec. 23 Twp 13 S Rge. 19 W Co. Ellis State KS

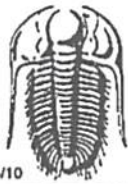
Interval Tested 3434-3456 Zone Tested Lansing "A"
 Anchor Length 3429 22' Drill Pipe Run 3263 Mud Wt. 9.0
 Top Packer Depth 3434 3429 Drill Collars Run 180 Vis 61
 Bottom Packer Depth 3431 Wt. Pipe Run _____ WL 6.4
 Total Depth 3456 Chlorides 4,500 ppm System LCM 2A
 Blow Description IF - slowly built to 1.88"
PSI - No blow
PF - slowly built to 1.68"
PSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>OSM</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 25' BHT 103° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1685 Test 1050 T-On Location 11/20 2327
 (B) First Initial Flow 31 Jars _____ T-Started 2346
 (C) First Final Flow 46 Safety Joint 75 T-Open 0241
 (D) Initial Shut-In 890 Circ Sub _____ T-Pulled 0441
 (E) Second Initial Flow 49 Hourly Standby _____ T-Out 0643
 (F) Second Final Flow 57 Mileage 20 RT 20 Comments _____
 (G) Final Shut-In 872 Sampler _____
 (H) Final Hydrostatic 1638 Straddle _____ EM Tool 350
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 350
 Accessibility _____ Total 1495
 Sub Total 1145 MP/DST Disc't _____

Approved By _____ Our Representative Braman Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65006

Well Name & No. Belmont Unit "A" #1-23 Test No. 5 Date 11/21/18
 Company Cobalt Energy LLC Elevation 2037 KB 2032 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Robert Hendrix Rig Murfin 8
 Location: Sec. 23 Twp 13 S Rge. 19 W Co. Ellis State KS

Interval Tested 3468-3536 Zone Tested Lansing "H-J"
 Anchor Length 68' Drill Pipe Run 3295 Mud Wt. 9.0
 Top Packer Depth 3463 Drill Collars Run 180 Vis 52
 Bottom Packer Depth 3468 Wt. Pipe Run _____ WL 6.4
 Total Depth 3536 Chlorides 4600 ppm System LCM 2#

Blow Description IF - slowly built to 4.09"
ISF - No blow
FF - slowly built to 15.72" (BOB 39 mins)
BSF - No blow

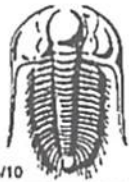
Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>HOCM</u>		<u>45</u>		<u>55</u>
	<u>30' GIP</u>				

Rec Total 150' BHT 104° Gravity 32 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1712</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1744</u>
(B) First Initial Flow <u>22</u>	<input type="checkbox"/> Jars _____	T-Started <u>1806</u>
(C) First Final Flow <u>49</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2046</u>
(D) Initial Shut-In <u>1007</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>11/22</u> <u>0011</u>
(E) Second Initial Flow <u>49</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0227</u>
(F) Second Final Flow <u>78</u>	<input checked="" type="checkbox"/> Mileage <u>20 RT</u> <u>20</u>	Comments _____
(G) Final Shut-In <u>1097</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1686</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</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>70</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1495</u>
	Sub Total <u>1145</u>	MP/DST Disc't _____

Approved By _____ Our Representative Brennan Loussate

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. 65007

Well Name & No. Defort Unit 'A' #1-23 Test No. 6 Date 11/22/18
 Company Cobalt Energy LLC Elevation 2037 KB 2632 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Robert Hendrix Rig Murphy 8
 Location: Sec. 23 Twp 13 S Rge. 19 W Co. Ellis State KS

Interval Tested 3642-3690 Zone Tested Arbuckle
 Anchor Length 48' Drill Pipe Run 3449 Mud Wt. 9.1
 Top Packer Depth 3637 Drill Collars Run 180 Vis 48
 Bottom Packer Depth 3642 Wt. Pipe Run _____ WL 7.2
 Total Depth 3690 Chlorides 4,600 ppm System LCM 2[#]
 Blow Description IF - slowly built to 4.51"
FST - No blow
FF - slowly built to 0.91"
FST - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>OSM</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

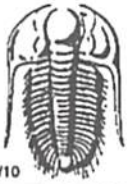
Rec Total 65' BHT 106° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1887</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1737</u>
(B) First Initial Flow <u>22</u>	<input type="checkbox"/> Jars _____	T-Started <u>1756</u>
(C) First Final Flow <u>38</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2043</u>
(D) Initial Shut-In <u>1075</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2358</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0152</u>
(F) Second Final Flow <u>47</u>	<input checked="" type="checkbox"/> Mileage <u>20 RT</u> 20	Comments _____
(G) Final Shut-In <u>1022</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1828</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</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>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1495</u>
	Sub Total <u>1145</u>	MP/DST Disc't _____

Approved By _____

Our Representative Brannan Lonsdale

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. 65008

Well Name & No. Rebert Unit "A" #1-23 Test No. 7 Date 11/23/18
 Company Cobalt Energy LLC Elevation 2037 KB 2032 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Robert Hendrix Rig Martin 8
 Location: Sec. 23 Twp 13 S Rge. 19 W Co. Ellis State KS

Interval Tested 3688-3700 Zone Tested Arbuckle
 Anchor Length 12' Drill Pipe Run 3512 Mud Wt. 9.1
 Top Packer Depth 3683 Drill Collars Run 180 Vis 60+
 Bottom Packer Depth 3688 Wt. Pipe Run — WL 6.4
 Total Depth 3700 Chlorides 4,500 ppm System LCM 3#
 Blow Description IF-BOB 4mins. Built to 47.54"
FSI - No blow
FF-BOB 10mins. Built to 36.47"
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>830</u>	<u>MW</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 830' BHT 117° Gravity — API RW 19 @ 60° F Chlorides 4,000 ppm

(A) Initial Hydrostatic <u>1902</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0903</u>
(B) First Initial Flow <u>26</u>	<input type="checkbox"/> Jars <u>—</u>	T-Started <u>0925</u>
(C) First Final Flow <u>227</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1420</u>
(D) Initial Shut-In <u>1215</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>1705</u>
(E) Second Initial Flow <u>232</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>1912</u>
(F) Second Final Flow <u>381</u>	<input checked="" type="checkbox"/> Mileage <u>20RT x 2</u> 40	Comments <u>Changed drilling line. Back @ 1237</u>
(G) Final Shut-In <u>1216</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>1805</u>	<input type="checkbox"/> Straddle <u>—</u>	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>—</u>	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility <u>—</u>	Total <u>1515</u>
	Sub Total <u>1165</u>	MP/DST Disc't <u>—</u>

Approved By _____ Our Representative Brannan Lonsdale

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Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513

Phone: 316-337-6200
Fax: 346-337-6211
<http://kcc.ks.gov/>

Dwight D. Keen, Chair
Shari Feist Albrecht, Commissioner
Jay Scott Emler, Commissioner

Laura Kelly, Governor

March 21, 2019

NICHOLAS HESS
Cobalt Energy LLC
115 S. BELMONT #12
PO BOX 8037
WICHITA, KS 67208-0037

Re: ACO-1
API 15-051-26934-00-00
BEFORT UNIT "A" 1-23
NE/4 Sec.23-13S-19W
Ellis County, Kansas

Dear NICHOLAS HESS:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 11/14/2018 and the ACO-1 was received on March 21, 2019 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department