

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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GLOBAL OIL FIELD SERVICES, LLC

10810

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>8-23-19</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Mt. Vernon</u>	WELL #. <u>1-10</u>	LOCATION <u>150 yards west of Hilltop, KS</u>	COUNTY <u>Osage</u>	STATE <u>KS</u>			
OLD OR NEW (CIRCLE ONE) <input checked="" type="radio"/> NEW							

CONTRACTOR <u>Martin Drilling Rig #116</u>	OWNER <u>Cohalt</u>
TYPE OF JOB <u>Plug</u>	CEMENT AMOUNT ORDERED <u>240 sacks 60/10 0.2 1/2</u>
HOLE SIZE _____ T.D. <u>3225'</u>	
CASING SIZE _____ DEPTH _____	
TUBING SIZE _____ DEPTH _____	
DRILL PIPE _____ DEPTH _____	
TOOL _____ DEPTH _____	
PRES. MAX _____ MINIMUM _____	
MEAS. LINE _____ SHOE JOINT _____	
CEMENT LEFT IN CSG. _____	
PERFS _____	
DISPLACEMENT _____	
EQUIPMENT _____	
PUMP TRUCK # <u>102</u> CEMENTER <u>Code</u> HELPER <u>Tom</u>	
BULK TRUCK # <u>1102</u> DRIVER <u>Elmer</u>	
BULK TRUCK # _____ DRIVER _____	

COMMON _____ @ _____
POZMIX _____ @ _____
GEL _____ @ _____
CHLORIDE _____ @ _____
ASC _____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
HANDLING _____ @ _____
MILEAGE _____ @ _____
TOTAL _____

REMARKS:
50 sacks 2175
100 sacks 13.00
50 270'
10 sacks 40' wiper plug
Plug 30 sacks

CHARGE TO: Cohalt
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 AFD
SIGNATURE [Signature]

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

GLOBAL OIL FIELD SERVICES, LLC

13808

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>5-17-19</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Miller #16</u>	WELL #. <u>1-6</u>	LOCATION <u>Miller #16</u>		COUNTY <u>Crawford</u>	STATE <u>KS</u>		
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR <u>Miller #16</u>	OWNER <u>Cabell</u>
TYPE OF JOB	
HOLE SIZE	T.D.
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>2.5'</u>	
PERFS	
DISPLACEMENT	

CEMENT AMOUNT ORDERED <u>175 ch. to 100 2300</u>
--

EQUIPMENT	
PUMP TRUCK	CEMENTER <u>Cade</u>
#	HELPER <u>7000</u>
BULK TRUCK	
#	DRIVER <u>7000</u>
BULK TRUCK	
#	DRIVER

COMMON	@	
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	@	
MILEAGE		

TOTAL _____

REMARKS:

175 ch. of 5% cement + 100 2300
to rig - Miller #16 location - depth to 100'
+ 100' of 10% cement + depth to 110'
of 4.5" + 5" + 3" + 1"

Cement dip - circulate to surface

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	
EXTRA FOOTAGE	@
MILEAGE	@
MANIFOLD	@
	@
	@

TOTAL _____

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL _____

CHARGE TO: Cabell

STREET _____

CITY _____ STATE _____ ZIP _____

Global Oil Field Services, LLC

You are hereby requested to rent cementing equipment and furnish cement 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 AFO

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12
Wichita KS 67208

ATTN: Corey Baker

Mollhagen 'A' #1-6

6-8S-25W Graham,KS

Start Date: 2019.08.21 @ 01:45:00

End Date: 2019.08.21 @ 09:02:15

Job Ticket #: 66305 DST #: 1

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

Printed: 2019.08.23 @ 14:44:57



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

6-8S-25W Graham,KS

115 S. Belmont #12
Wichita KS 67208

Mollhagen 'A' #1-6

Job Ticket: 66305

DST#: 1

ATTN: Corey Baker

Test Start: 2019.08.21 @ 01:45:00

GENERAL INFORMATION:

Formation: **LKC C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:33:45

Time Test Ended: 09:02:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: 3758.00 ft (KB) To 3780.00 ft (KB) (TVD)

Reference Elevations: 2459.00 ft (KB)

Total Depth: 3780.00 ft (KB) (TVD)

2454.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8671 Outside

Press@RunDepth: 324.41 psig @ 3759.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.21

End Date:

2019.08.21

Last Calib.:

2019.08.21

Start Time: 01:45:05

End Time:

09:02:14

Time On Btm:

2019.08.21 @ 04:32:45

Time Off Btm:

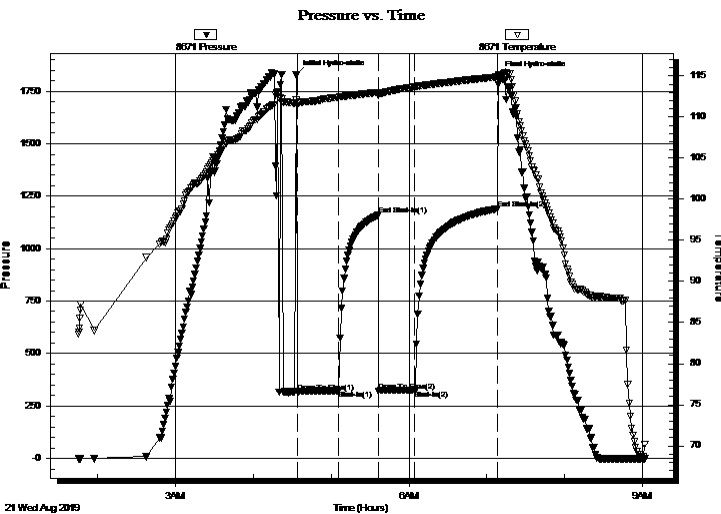
2019.08.21 @ 07:09:15

TEST COMMENT: 30 - IFP - Tool landed high & opened before packers set. Faint Surface died in 5 mins

30 - ISI - No Return

30 - FFP - No Surface blow

60 - FSI - No Return



PRESSURE SUMMARY

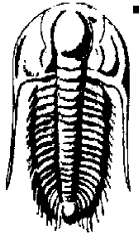
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1827.78	112.05	Initial Hydro-static
1	317.27	111.39	Open To Flow (1)
33	322.98	112.39	Shut-In(1)
64	1160.15	113.01	End Shut-In(1)
64	321.57	112.59	Open To Flow (2)
92	324.41	113.67	Shut-In(2)
156	1190.08	114.88	End Shut-In(2)
157	1824.59	115.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
627.00	Mud - 100%m	6.28

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

115 S. Belmont #12
Wichita KS 67208

ATTN: Corey Baker

6-8S-25W Graham,KS

Mollhagen 'A' #1-6

Job Ticket: 66305

DST#: 1

Test Start: 2019.08.21 @ 01:45:00

GENERAL INFORMATION:

Formation: **LKC C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:33:45

Time Test Ended: 09:02:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: 3758.00 ft (KB) To 3780.00 ft (KB) (TVD)

Reference Elevations: 2459.00 ft (KB)

Total Depth: 3780.00 ft (KB) (TVD)

2454.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8360 **Inside**

Press@RunDepth: psig @ 3759.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.21

End Date: 2019.08.21

Last Calib.: 2019.08.21

Start Time: 01:45:05

End Time: 09:02:14

Time On Btm:

Time Off Btm:

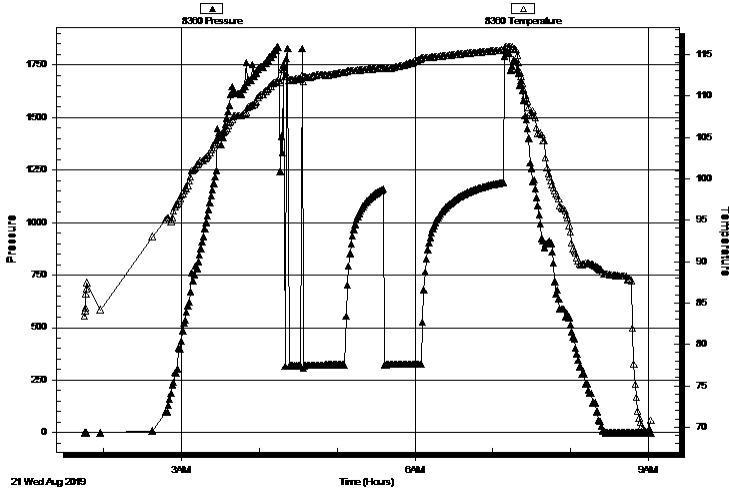
TEST COMMENT: 30 - IFP - Tool landed high & opened before packers set. Faint Surface died in 5 mins

30 - ISI - No Return

30 - FFP - No Surface blow

60 - FSI - No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
627.00	Mud - 100%m	6.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

6-8S-25W Graham,KS

115 S. Belmont #12
Wichita KS 67208

Mollhagen 'A' #1-6

Job Ticket: 66305

DST#: 1

ATTN: Corey Baker

Test Start: 2019.08.21 @ 01:45:00

Tool Information

Drill Pipe:	Length: 3735.78 ft	Diameter: 3.25 inches	Volume: 38.33 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 28.99 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 38.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.77 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3758.00 ft			Final 55000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3737.00	
Hydraulic tool	5.00			3742.00	
EM tool	3.00			3745.00	
Safety Joint	3.00			3748.00	
Packer	5.00			3753.00	26.00 Bottom Of Top Packer
Packer	5.00			3758.00	
Stubb	1.00			3759.00	
Recorder	0.00	8360	Inside	3759.00	
Recorder	0.00	8671	Outside	3759.00	
Perforations	18.00			3777.00	
Bullnose	3.00			3780.00	22.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

6-8S-25W Graham,KS

115 S. Belmont #12
Wichita KS 67208

Mollhagen 'A' #1-6

Job Ticket: 66305

DST#: 1

ATTN: Corey Baker

Test Start: 2019.08.21 @ 01:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
627.00	Mud - 100%m	6.279

Total Length: 627.00 ft Total Volume: 6.279 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

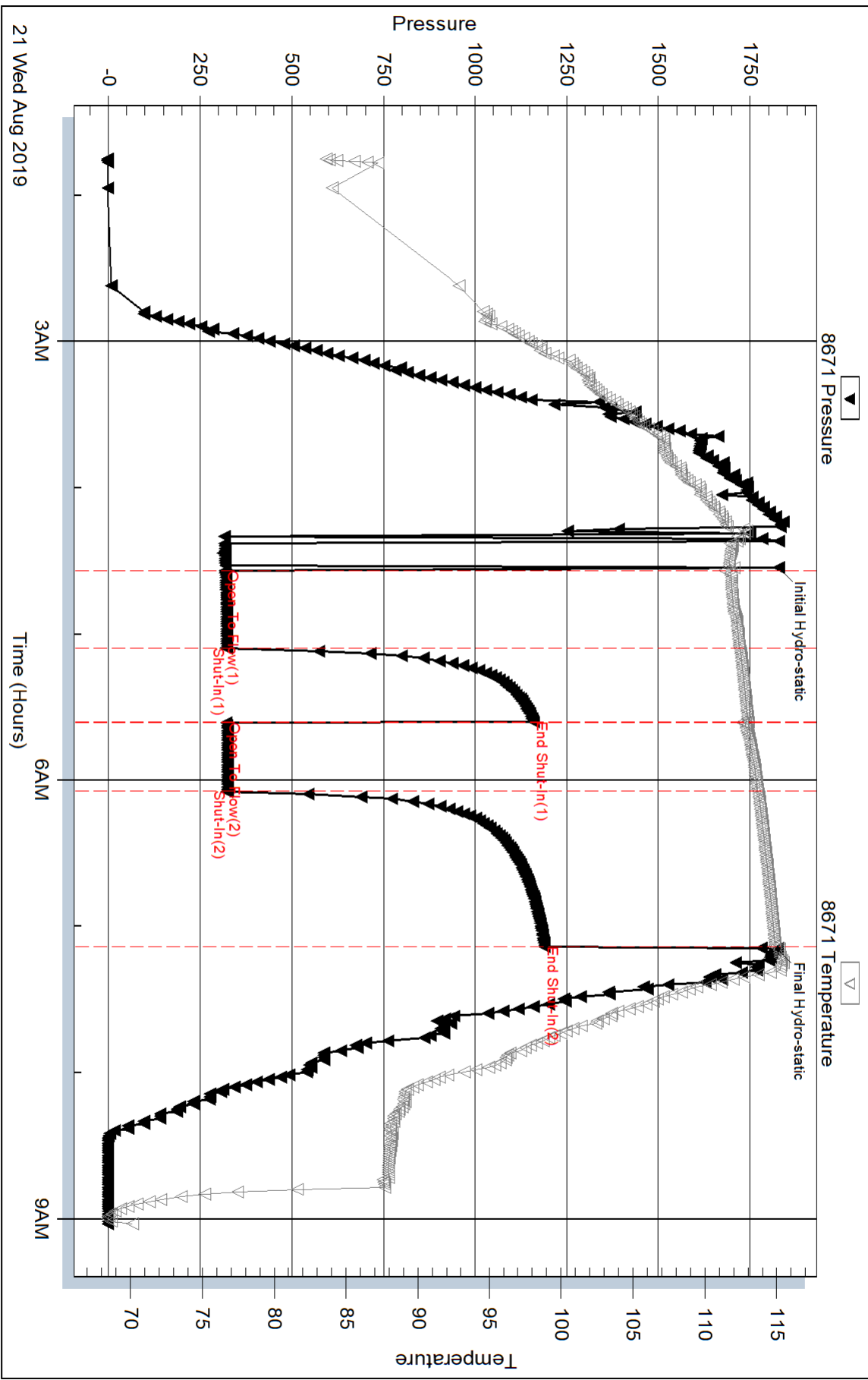
Serial #:

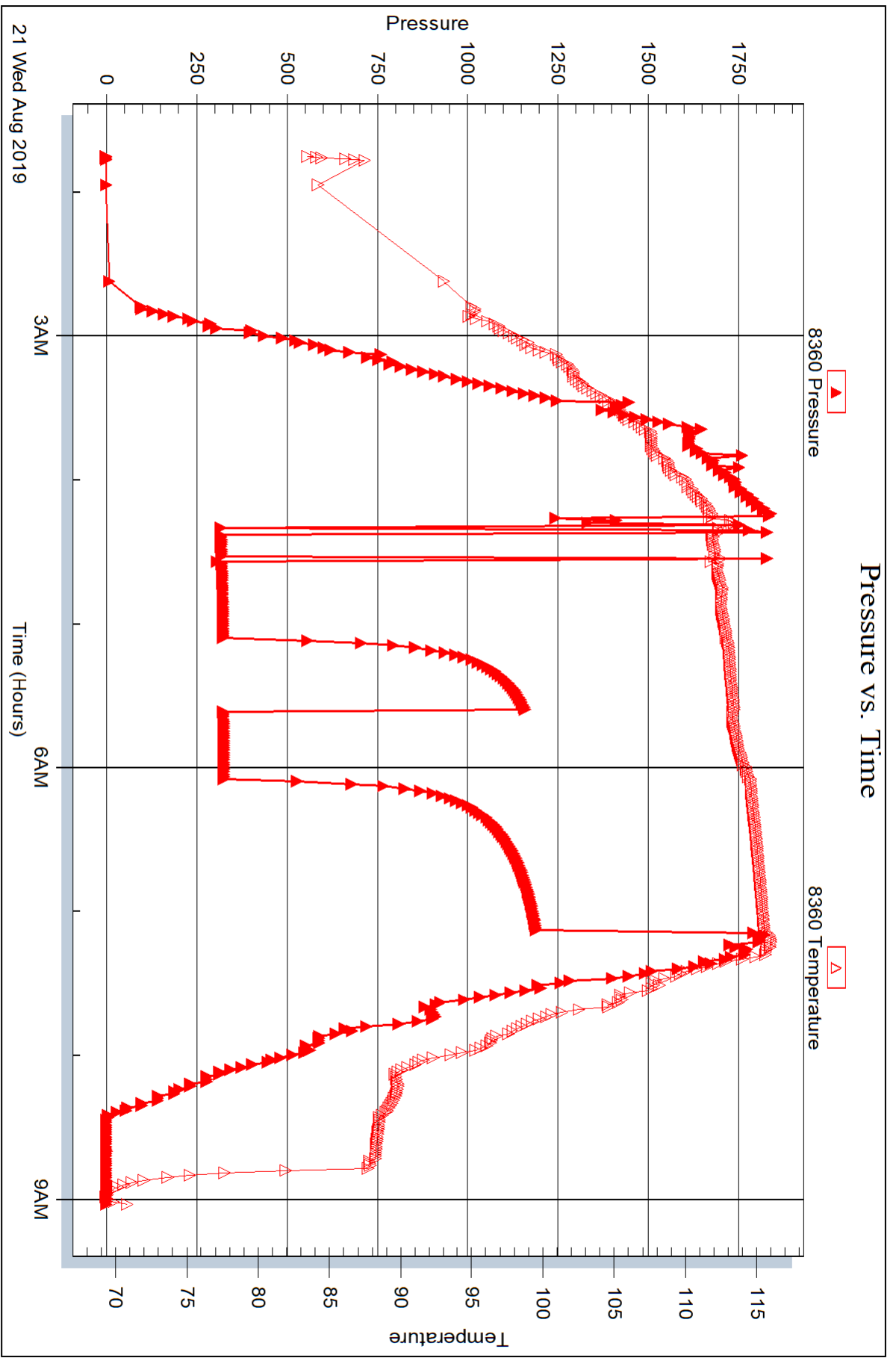
Laboratory Name:

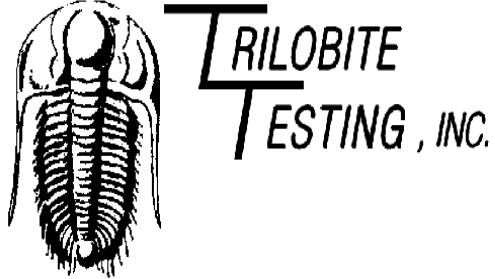
Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12
Wichita KS 67208

ATTN: Corey Baker

Mollhagen 'A' #1-6

6-8S-25W Graham,KS

Start Date: 2019.08.21 @ 16:10:00

End Date: 2019.08.22 @ 00:19:00

Job Ticket #: 66306 DST #: 2

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

Printed: 2019.08.23 @ 14:41:21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

6-8S-25W Graham,KS

115 S. Belmont #12
Wichita KS 67208

Mollhagen 'A' #1-6

ATTN: Corey Baker

Job Ticket: 66306

DST#: 2

Test Start: 2019.08.21 @ 16:10:00

GENERAL INFORMATION:

Formation: **LKC C - F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:53:15

Time Test Ended: 00:19:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: 3752.00 ft (KB) To 3820.00 ft (KB) (TVD)

Reference Elevations: 2459.00 ft (KB)

Total Depth: 3820.00 ft (KB) (TVD)

2454.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8671

Outside

Press@RunDepth: 331.42 psig @ 3753.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.21

End Date: 2019.08.22

Last Calib.: 2019.08.22

Start Time: 16:10:05

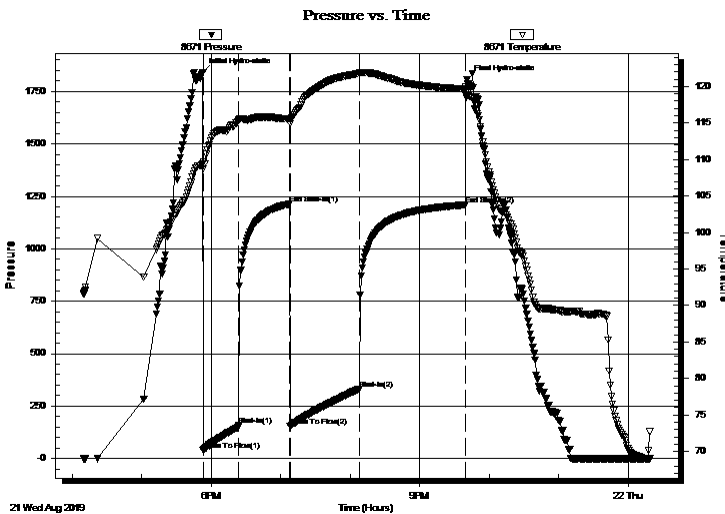
End Time: 00:18:59

Time On Btm: 2019.08.21 @ 17:53:00

Time Off Btm: 2019.08.21 @ 21:41:00

TEST COMMENT: 30 - IFP - Surface blow built to bottom of the bucket in 20 mins.
45 - ISI - No Return
60 - FFP - Surface blow built to bottom of the bucket in 50 mins.
90 - FSI - No Return

PRESSURE SUMMARY



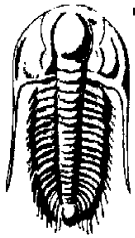
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1840.87	109.37	Initial Hydro-static
1	38.77	108.74	Open To Flow (1)
31	156.75	115.38	Shut-In(1)
75	1213.78	115.56	End Shut-In(1)
76	154.67	114.91	Open To Flow (2)
136	331.42	121.77	Shut-In(2)
227	1209.15	119.61	End Shut-In(2)
228	1807.51	119.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
171.00	WM - 40%w - 60%m	1.60
189.00	MW - 40%m - 60%w	1.94
315.00	MW - 10%m - 90%w	3.23

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

115 S. Belmont #12
Wichita KS 67208

ATTN: Corey Baker

6-8S-25W Graham, KS

Mollhagen 'A' #1-6

Job Ticket: 66306

DST#: 2

Test Start: 2019.08.21 @ 16:10:00

GENERAL INFORMATION:

Formation: **LKC C - F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:53:15

Time Test Ended: 00:19:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: 3752.00 ft (KB) To 3820.00 ft (KB) (TVD)

Reference Elevations: 2459.00 ft (KB)

Total Depth: 3820.00 ft (KB) (TVD)

2454.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8360 Inside

Press@RunDepth: psig @ 3753.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.21

End Date: 2019.08.22

Last Calib.: 2019.08.22

Start Time: 16:10:05

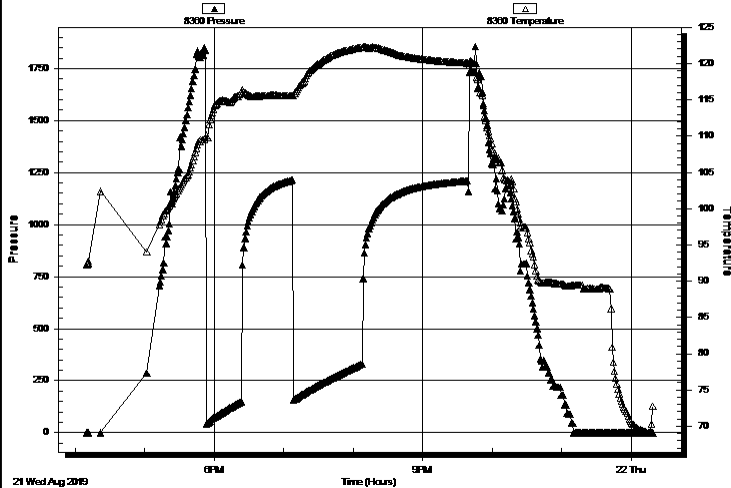
End Time: 00:18:59

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IFP - Surface blow built to bottom of the bucket in 20 mins.
45 - ISI - No Return
60 - FFP - Surface blow built to bottom of the bucket in 50 mins.
90 - FSI - No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
171.00	WM - 40%w - 60%m	1.60
189.00	MW - 40%m - 60%w	1.94
315.00	MW - 10%m - 90%w	3.23

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

6-8S-25W Graham,KS

115 S. Belmont #12
Wichita KS 67208

Mollhagen 'A' #1-6

Job Ticket: 66306

DST#: 2

ATTN: Corey Baker

Test Start: 2019.08.21 @ 16:10:00

Tool Information

Drill Pipe:	Length: 3704.28 ft	Diameter: 3.25 inches	Volume: 38.01 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 28.99 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 38.15 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	7.27 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3752.00 ft			Final 55000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3731.00	
Hydraulic tool	5.00			3736.00	
EM Tool	3.00			3739.00	
Safety Joint	3.00			3742.00	
Packer	5.00			3747.00	26.00 Bottom Of Top Packer
Packer	5.00			3752.00	
Stubb	1.00			3753.00	
Recorder	0.00	8360	Inside	3753.00	
Recorder	0.00	8671	Outside	3753.00	
Perforations	31.00			3784.00	
Change Over Sub	1.00			3785.00	
Drill Pipe	31.00			3816.00	
Change Over Sub	1.00			3817.00	
Bullnose	3.00			3820.00	68.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

6-8S-25W Graham,KS

115 S. Belmont #12
Wichita KS 67208

Mollhagen 'A' #1-6

Job Ticket: 66306

DST#: 2

ATTN: Corey Baker

Test Start: 2019.08.21 @ 16:10:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
171.00	WM - 40%w - 60%m	1.600
189.00	MW - 40%m - 60%w	1.939
315.00	MW - 10%m - 90%w	3.232

Total Length: 675.00 ft

Total Volume: 6.771 bbl

Num Fluid Samples: 0

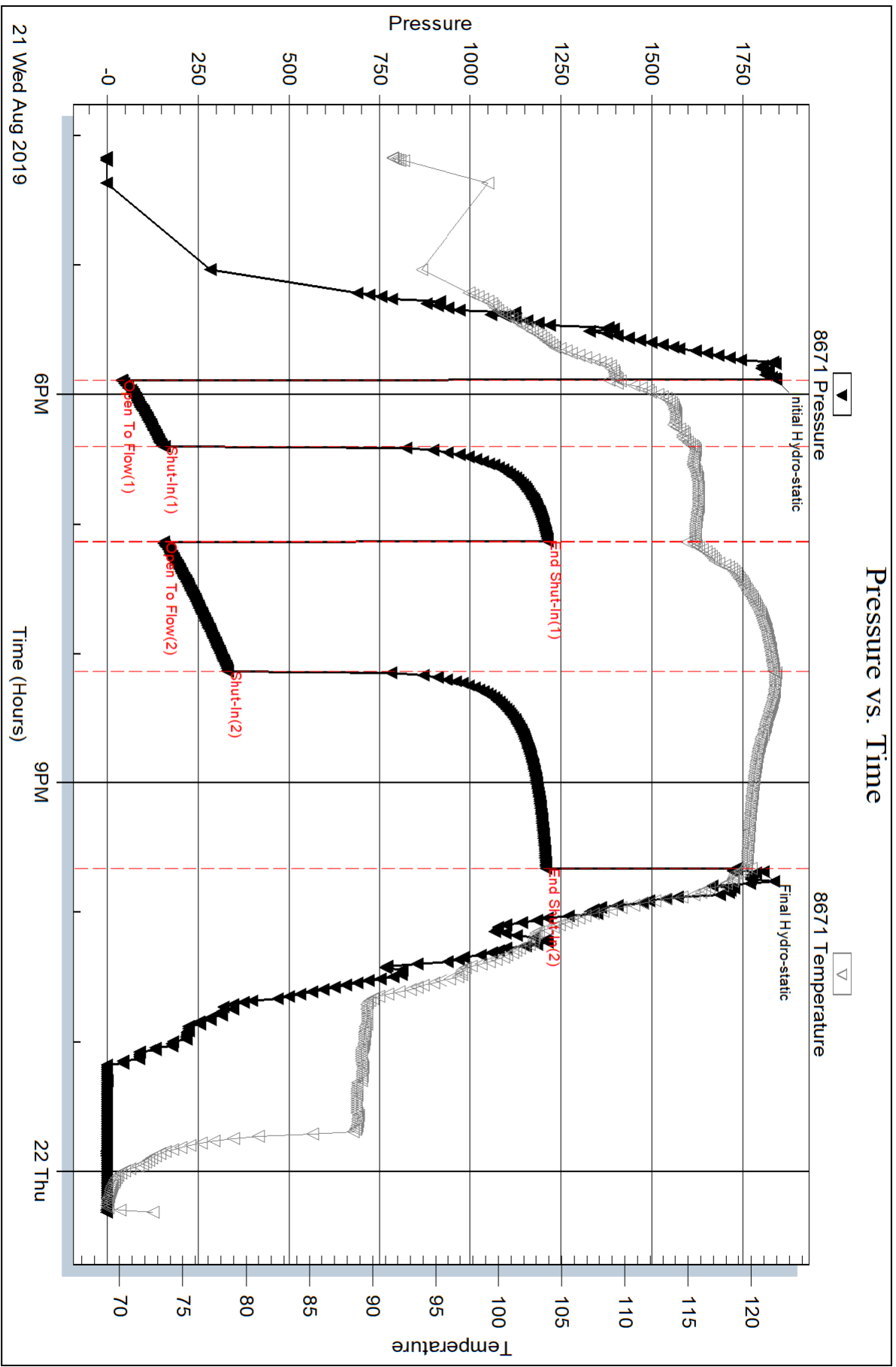
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .375 @ 72



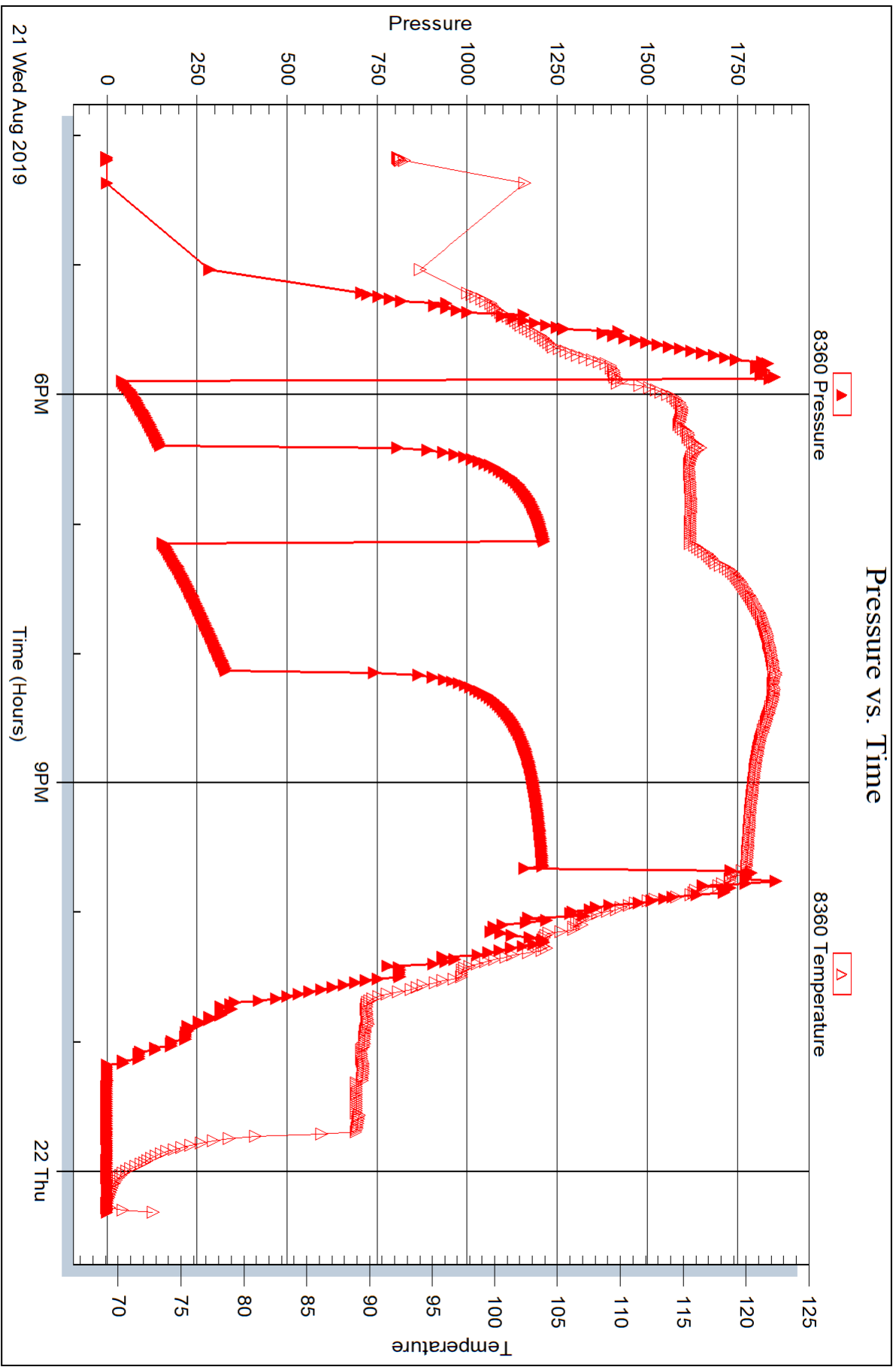
Serial #: 8360

Inside

Cobalt Energy LLC

Mollhagen 'A' #1-6

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 66306

Printed: 2019.08.23 @ 14:41:23



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12
Wichita KS 67208

ATTN: Corey Baker

Mollhagen 'A' #1-6

6-8S-25W Graham,KS

Start Date: 2019.08.22 @ 12:15:18

End Date: 2019.08.22 @ 19:11:48

Job Ticket #: 66307 DST #: 3

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

Printed: 2019.08.23 @ 14:39:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

6-8S-25W Graham,KS

115 S. Belmont #12
Wichita KS 67208

Mollhagen 'A' #1-6

ATTN: Corey Baker

Job Ticket: 66307

DST#: 3

Test Start: 2019.08.22 @ 12:15:18

GENERAL INFORMATION:

Formation: **LKC H - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:38:33

Time Test Ended: 19:11:48

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 77

Interval: 3839.00 ft (KB) To 3909.00 ft (KB) (TVD)

Reference Elevations: 2459.00 ft (KB)

Total Depth: 3909.00 ft (KB) (TVD)

2454.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8671 Outside

Press@RunDepth: 46.69 psig @ 3840.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.22 End Date: 2019.08.22

Last Calib.: 2019.08.22

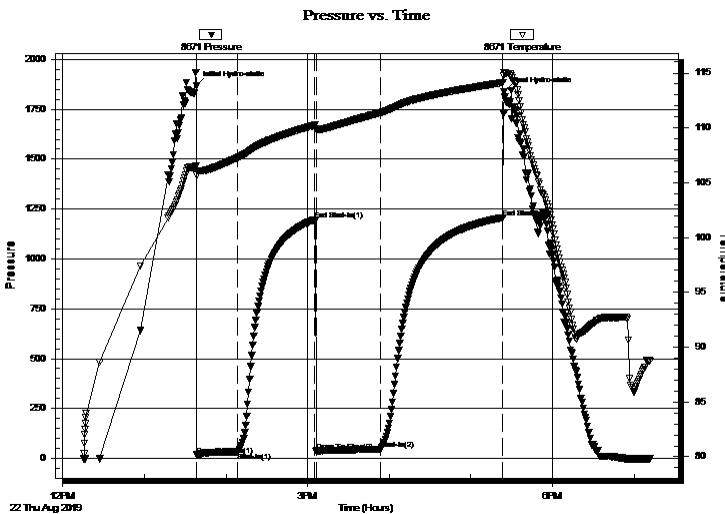
Start Time: 12:15:23 End Time: 19:11:47

Time On Btm: 2019.08.22 @ 13:38:18

Time Off Btm: 2019.08.22 @ 17:24:33

TEST COMMENT: 30- IF- Slow ly built to 3"
45- IS- No blow
60- FF- Slow ly built to 4.5"
90- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1866.40	106.54	Initial Hydro-static
1	18.16	105.67	Open To Flow (1)
31	33.49	107.27	Shut-In(1)
87	1196.92	110.24	End Shut-In(1)
88	34.23	109.89	Open To Flow (2)
135	46.69	111.38	Shut-In(2)
226	1207.07	114.12	End Shut-In(2)
227	1838.31	115.06	Final Hydro-static

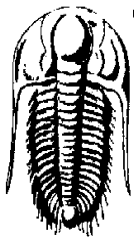
Recovery

Length (ft)	Description	Volume (bbl)
75.00	OCM, 15%O 85%M	0.79
5.00	CO	0.07

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

6-8S-25W Graham, KS

115 S. Belmont #12
Wichita KS 67208

Mollhagen 'A' #1-6

ATTN: Corey Baker

Job Ticket: 66307

DST#: 3

Test Start: 2019.08.22 @ 12:15:18

GENERAL INFORMATION:

Formation: **LKC H - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:38:33

Time Test Ended: 19:11:48

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 77

Interval: 3839.00 ft (KB) To 3909.00 ft (KB) (TVD)

Total Depth: 3909.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2459.00 ft (KB)

2454.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8360

Inside

Press@RunDepth: psig @ 3840.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.22

End Date: 2019.08.22

Last Calib.: 2019.08.22

Start Time: 12:16:04

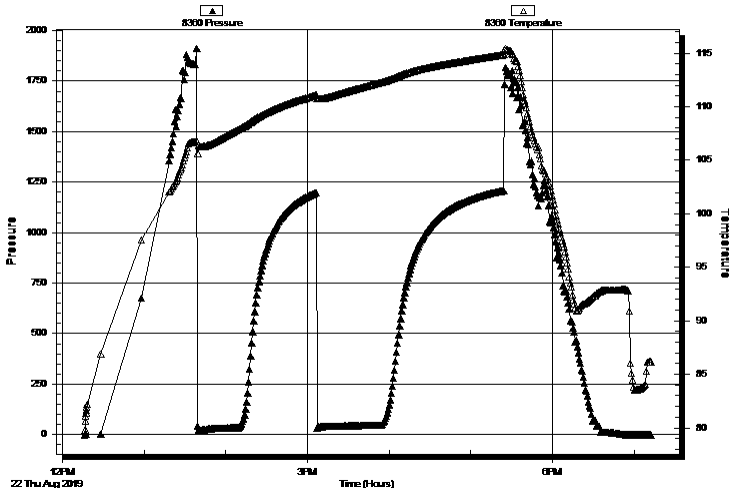
End Time: 19:12:43

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- Slow ly built to 3"
45- IS- No blow
60- FF- Slow ly built to 4.5"
90- FSI- No blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
75.00	OCM, 15%O 85%M	0.79
5.00	CO	0.07

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

6-8S-25W Graham,KS

115 S. Belmont #12
Wichita KS 67208

Mollhagen 'A' #1-6

Job Ticket: 66307

DST#: 3

ATTN: Corey Baker

Test Start: 2019.08.22 @ 12:15:18

Tool Information

Drill Pipe:	Length: 3799.00 ft	Diameter: 3.82 inches	Volume: 53.85 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 53.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3839.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	96.00 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			3814.00	
Shut In Tool	5.00			3819.00	
Hydraulic tool	5.00			3824.00	
Gap Sub	3.00			3827.00	
Safety Joint	3.00			3830.00	
Packer	5.00			3835.00	26.00 Bottom Of Top Packer
Packer	4.00			3839.00	
Stubb	1.00			3840.00	
Recorder	0.00	8360	Inside	3840.00	
Recorder	0.00	8671	Outside	3840.00	
Perforations	1.00			3841.00	
Change Over Sub	1.00			3842.00	
Drill Pipe	62.00			3904.00	
Change Over Sub	1.00			3905.00	
Perforations	1.00			3906.00	
Bullnose	3.00			3909.00	70.00 Bottom Packers & Anchor
Total Tool Length:	96.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

6-8S-25W Graham,KS

115 S. Belmont #12
Wichita KS 67208

Mollhagen 'A' #1-6

Job Ticket: 66307

DST#: 3

ATTN: Corey Baker

Test Start: 2019.08.22 @ 12:15:18

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: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
75.00	OCM, 15%O 85%M	0.795
5.00	CO	0.071

Total Length: 80.00 ft Total Volume: 0.866 bbl

Num Fluid Samples: 0

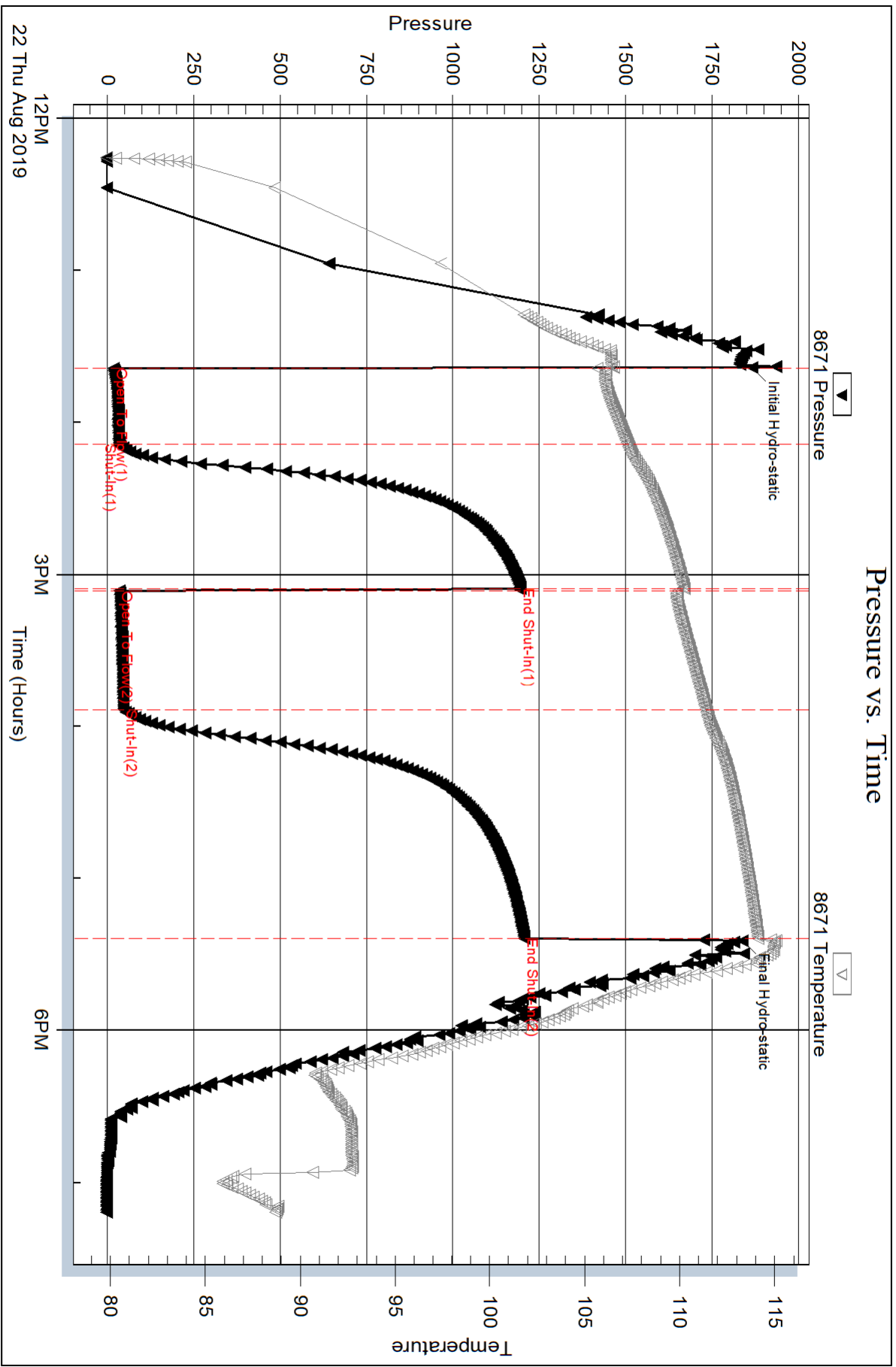
Num Gas Bombs: 0

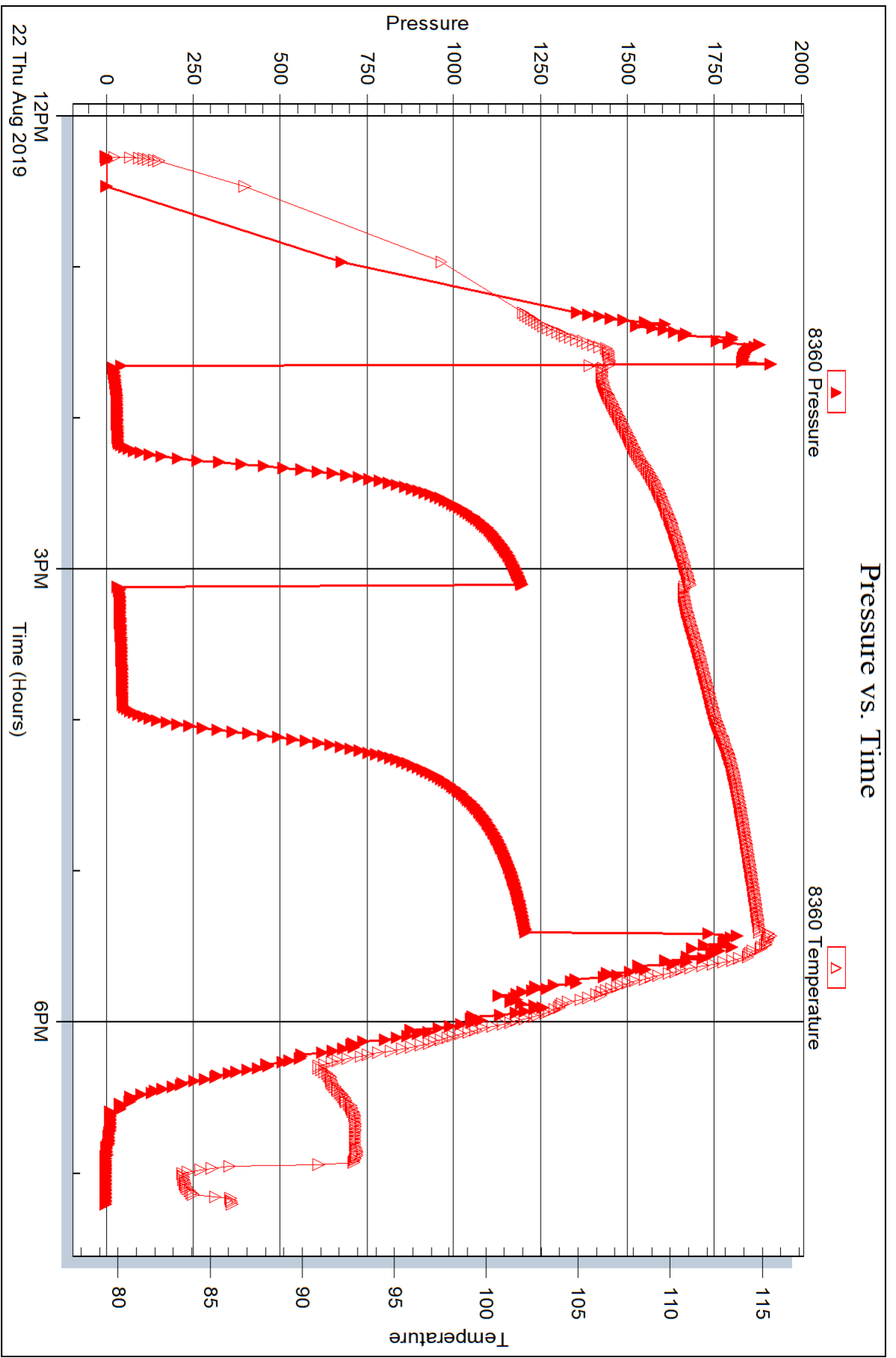
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12
Wichita KS 67208

ATTN: Corey Baker

Mollhagen 'A' #1-6

6-8S-25W Graham,KS

Start Date: 2019.08.23 @ 01:14:41

End Date: 2019.08.23 @ 06:51:11

Job Ticket #: 66308 DST #: 4

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

Printed: 2019.08.23 @ 14:38:16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

6-8S-25W Graham, KS

115 S. Belmont #12
Wichita KS 67208

Mollhagen 'A' #1-6

Job Ticket: 66308

DST#: 4

ATTN: Corey Baker

Test Start: 2019.08.23 @ 01:14:41

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:06:41
 Time Test Ended: 06:51:11
 Interval: **3910.00 ft (KB) To 3930.00 ft (KB) (TVD)**
 Total Depth: 3930.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: #77
 Reference Elevations: 2459.00 ft (KB)
 2454.00 ft (CF)
 KB to GR/CF: 5.00 ft

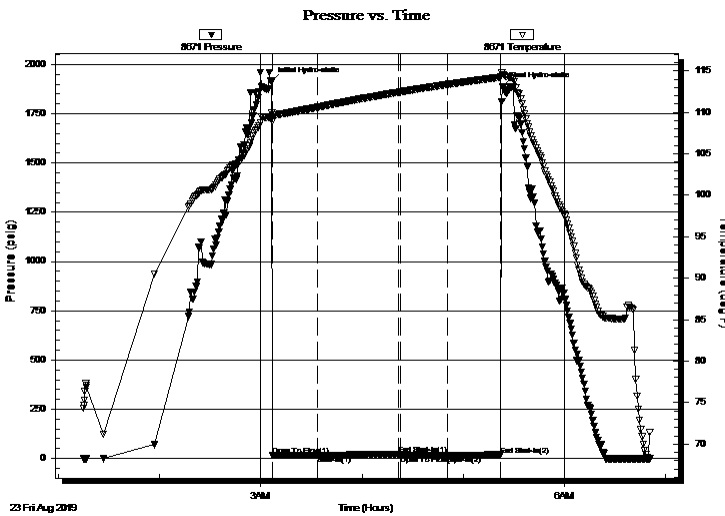
Serial #: 8671

Outside

Press@RunDepth: 15.93 psig @ 3911.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.08.23 End Date: 2019.08.23 Last Calib.: 2019.08.23
 Start Time: 01:14:46 End Time: 06:51:10 Time On Btm: 2019.08.23 @ 03:06:26
 Time Off Btm: 2019.08.23 @ 05:23:11

TEST COMMENT: 30- IF- 0.25" blow
 45- IS- No blow
 30- FF- No blow
 30- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.34	109.96	Initial Hydro-static
1	14.37	108.83	Open To Flow (1)
28	15.50	110.62	Shut-In(1)
76	21.94	112.42	End Shut-In(1)
77	14.76	112.44	Open To Flow (2)
105	15.93	113.35	Shut-In(2)
136	18.37	114.23	End Shut-In(2)
137	1887.91	114.76	Final Hydro-static

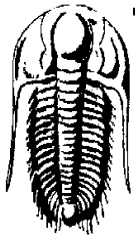
Recovery

Length (ft)	Description	Volume (bbl)
2.00	OSM	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

6-8S-25W Graham, KS

115 S. Belmont #12
Wichita KS 67208

Mollhagen 'A' #1-6

ATTN: Corey Baker

Job Ticket: 66308

DST#: 4

Test Start: 2019.08.23 @ 01:14:41

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: **03:06:41**

Time Test Ended: **06:51:11**

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Brannan Lonsdale**

Unit No: **#77**

Interval: 3910.00 ft (KB) To 3930.00 ft (KB) (TVD)

Reference Elevations: **2459.00 ft (KB)**

Total Depth: **3930.00 ft (KB) (TVD)**

2454.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **5.00 ft**

Serial #: 8360

Inside

Press@RunDepth: **psig @ 3911.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2019.08.23** End Date: **2019.08.23**

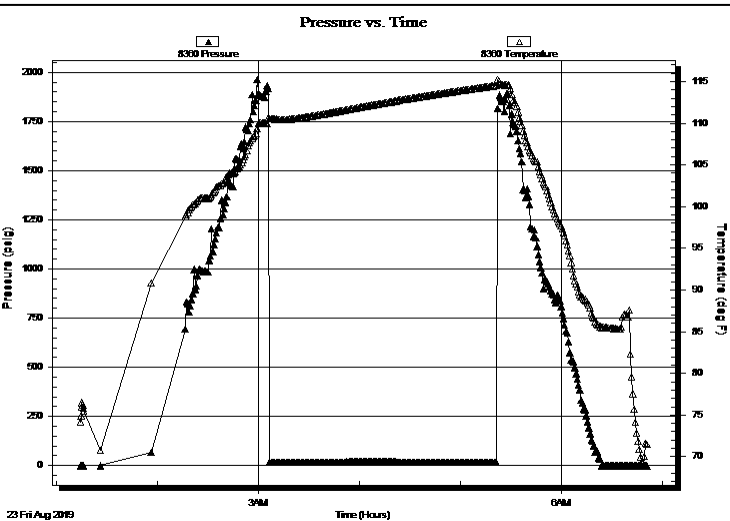
Last Calib.: **2019.08.23**

Start Time: **01:14:16** End Time: **06:50:55**

Time On Btm:

Time Off Btm:

TEST COMMENT:
30- IF- 0.25" blow
45- IS- No blow
30- FF- No blow
30- FS- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	OSM	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

6-8S-25W Graham,KS

115 S. Belmont #12
Wichita KS 67208

Mollhagen 'A' #1-6

Job Ticket: 66308

DST#: 4

ATTN: Corey Baker

Test Start: 2019.08.23 @ 01:14:41

Tool Information

Drill Pipe:	Length: 3863.00 ft	Diameter: 3.82 inches	Volume: 54.76 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 54.90 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3910.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	46.00 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			3885.00	
Shut In Tool	5.00			3890.00	
Hydraulic tool	5.00			3895.00	
EM Tool	3.00			3898.00	
Safety Joint	3.00			3901.00	
Packer	5.00			3906.00	26.00 Bottom Of Top Packer
Packer	4.00			3910.00	
Stubb	1.00			3911.00	
Recorder	0.00	8360	Inside	3911.00	
Recorder	0.00	8671	Outside	3911.00	
Perforations	16.00			3927.00	
Bullnose	3.00			3930.00	20.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

6-8S-25W Graham,KS

115 S. Belmont #12
Wichita KS 67208

Mollhagen 'A' #1-6

Job Ticket: 66308

DST#: 4

ATTN: Corey Baker

Test Start: 2019.08.23 @ 01:14:41

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: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	OSM	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

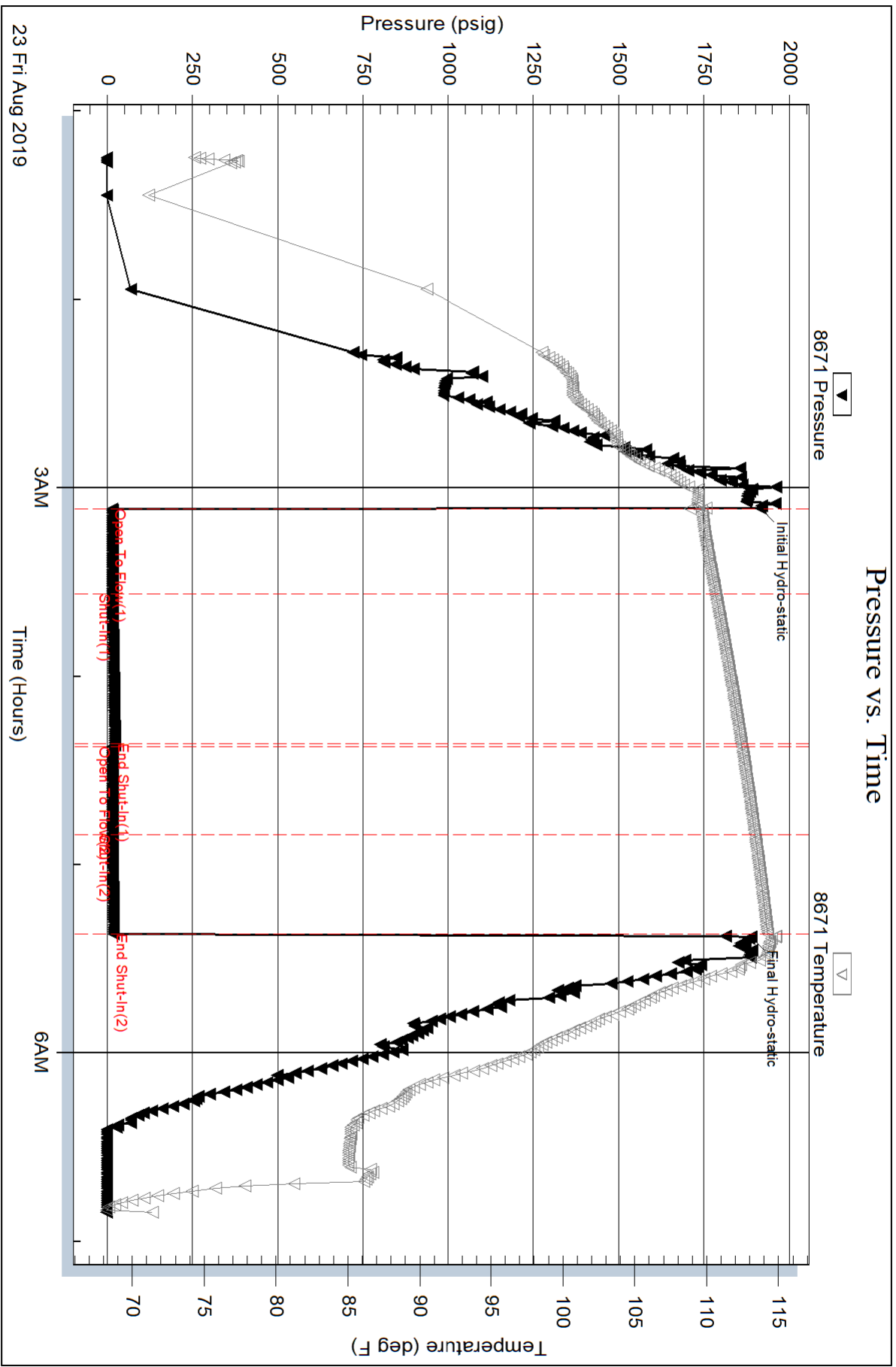
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



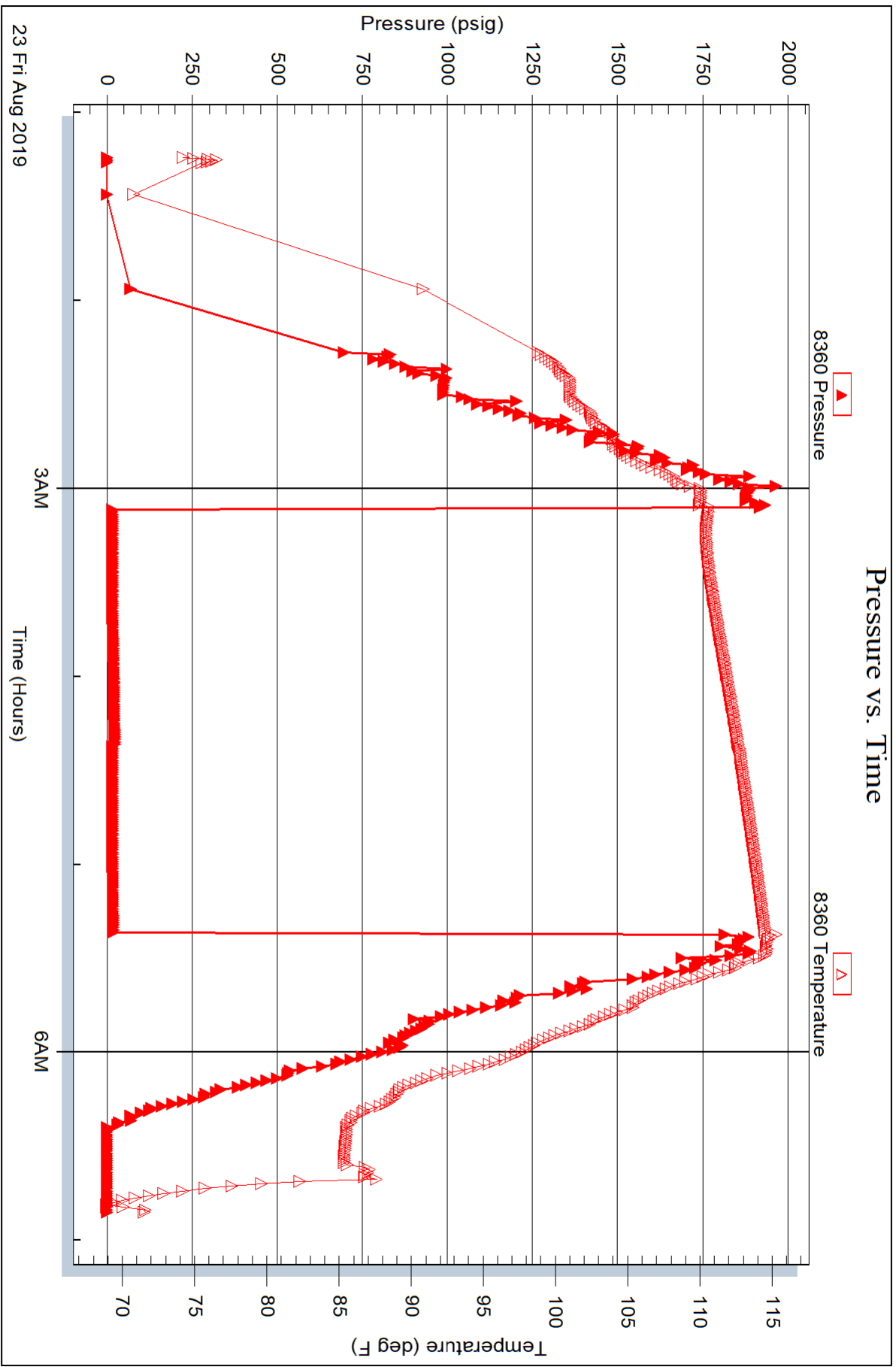
Serial #: 8360

Inside

Cobalt Energy LLC

Mollhagen 'A' #1-6

DST Test Number: 4



23 Fri Aug 2019

3AM

Time (Hours)

6AM



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66305

NO.

Well Name & No. Mallhegen Trust 'A' #1-6 Test No. 1 Date 8-21-19
 Company Cobalt Energy LLC Elevation 2459' KB 2454' GL
 Address 15 S. Belmont #12 Wichita ks 67208
 Co. Rep / Geo. Corey Baker Rig Murfin #16
 Location: Sec. 6 Twp 8S Rge. 25W Co. Graham State ks

Interval Tested 3758' - 3780' Zone Tested Lansing C
 Anchor Length 22' Drill Pipe Run 3735.78' Mud Wt. 8.6
 Top Packer Depth 3753' Drill Collars Run 28.99' Vis 55
 Bottom Packer Depth 3758' Wt. Pipe Run 0 WL 7.2
 Total Depth 3780' Chlorides 500 ppm System LCM 2#

Blow Description IIP - Faint surface died in 5 mins
ISI - No return
FFP - No surface blow
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>628'</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 628' BHT 115°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1828</u>	<input checked="" type="checkbox"/> Test 1200	T-On Location <u>12:33am</u>
(B) First Initial Flow <u>317</u>	<input type="checkbox"/> Jars _____	T-Started <u>1145am</u>
(C) First Final Flow <u>323</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>4:33am</u>
(D) Initial Shut-In <u>1160</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>7:03am</u>
(E) Second Initial Flow <u>322</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:02am</u>
(F) Second Final Flow <u>324</u>	<input checked="" type="checkbox"/> Mileage <u>156 R/T</u> 156	Comments <u>Think the tool opened before we got to bottom</u>
(G) Final Shut-In <u>1190</u>	<input type="checkbox"/> Sampler _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
(H) Final Hydrostatic <u>1825</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>350</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1781</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1431</u>	

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66306

NO.

Well Name & No. Mallhogen Trust 'A' #1-6 Test No. 2 Date 8-21-19
 Company Cobalt Energy LLC Elevation 2459' KB 2454' GL
 Address 115 S. Belmont #12 Wichita Ks 67208
 Co. Rep / Geo. Corey Baker Rig Murphy #16
 Location: Sec. 6 Twp 8S Rge. 25W Co. Graham State Ks

Interval Tested 3752'-3820' Zone Tested C-F
 Anchor Length 68' Drill Pipe Run 3704.28' Mud Wt. 9.1
 Top Packer Depth 3747' Drill Collars Run 28.99 Vis 58
 Bottom Packer Depth 3752' Wt. Pipe Run 0 WL 7.2
 Total Depth 3820' Chlorides 700 ppm System LCM 2#

Blow Description FF - surface blow built to B.O.B in 23 mins.
ISI - No Return
FF - surface blow built to B.O.B in 50 mins.
FST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>171'</u>	<u>WM</u>		<u>40</u>	<u>60</u>	
<u>189'</u>	<u>MW</u>		<u>60</u>	<u>40</u>	
<u>315'</u>	<u>MW</u>		<u>90</u>	<u>10</u>	

Rec Total 675 BHT 120°F Gravity _____ API RW 375 @ 72 °F Chlorides 25,000 ppm

(A) Initial Hydrostatic <u>1841</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>3:53pm</u>
(B) First Initial Flow <u>39</u>	<input type="checkbox"/> Jars _____	T-Started <u>4:10pm</u>
(C) First Final Flow <u>157</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>5:53pm</u>
(D) Initial Shut-In <u>1214</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>9:38pm</u>
(E) Second Initial Flow <u>155</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>12:19am</u>
(F) Second Final Flow <u>331</u>	<input checked="" type="checkbox"/> Mileage <u>1516 R/T</u> @156	Comments _____
(G) Final Shut-In <u>1209</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1808</u>	<input type="checkbox"/> Straddle _____	

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Ruined Packer _____
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Accessibility _____	Sub Total <u>350</u>
	Sub Total <u>1431</u>	Total <u>1781</u>

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66307

NO.

Well Name & No. Mollhagen Trust A #1-6 Test No. 3 Date 8/22/19
 Company Cobalt Energy, LLC Elevation 2459 KB 2454 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Coney Becker Rig Murphy 16
 Location: Sec. 6 Twp S Rge. 25 W Co. Graham State KS

Interval Tested 3839-3909 Zone Tested LKC "H-J"
 Anchor Length 20' Drill Pipe Run 3799 Mud Wt. 9.1
 Top Packer Depth 3834 Drill Collars Run 29 Vis 69
 Bottom Packer Depth 3839 Wt. Pipe Run WL 8.0
 Total Depth 3909 Chlorides 1,900 ppm System LCM 1#

Blow Description IF - slowly built to 3"
IF - No blow
PF - slowly built to 4 1/2"
IF - No blow

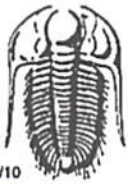
Rec	Feet of	%gas	%oil	%water	%mud
<u>25'</u>	<u>OCM</u>		<u>15</u>		<u>85</u>
<u>5</u>	<u>10</u>				

Rec Total 80' BHT 114° Gravity 32 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>1866</u>	<input checked="" type="checkbox"/> Test 1200	T-On Location <u>1145</u>
(B) First Initial Flow <u>18</u>	<input type="checkbox"/> Jars	T-Started <u>1215</u>
(C) First Final Flow <u>33</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1341</u>
(D) Initial Shut-In <u>1197</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1726</u>
(E) Second Initial Flow <u>34</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1914</u>
(F) Second Final Flow <u>47</u>	<input checked="" type="checkbox"/> Mileage <u>156 RT</u> 156	Comments
(G) Final Shut-In <u>1207</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1838</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool 350
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>1781</u>
	Sub Total <u>1431</u>	MP/DST Disc't

Approved By _____ Our Representative Bruce 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 66308

NO.

Well Name & No. Mallhagen Trust A¹-6 Test No. 4 Date 8/23/19
 Company Cobalt Energy LLC Elevation 2459 KB 2454 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Cory Baker Rig Marlin 16
 Location: Sec. 6 Twp 8 S Rge. 25 W Co. Graham State KS

Interval Tested 3910 - 3930 Zone Tested LKC "K"
 Anchor Length 20' Drill Pipe Run 3863 Mud Wt. 9.1
 Top Packer Depth 3905 Drill Collars Run 29 Vis 69
 Bottom Packer Depth 3910 Wt. Pipe Run _____ WL 8.0
 Total Depth 3930 Chlorides 1,700 ppm System LCM 1#

Blow Description IF - 1/4" blow
ISF - No blow
FF - No blow
FSF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</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 2' BHT 114° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1915</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>0045</u>
(B) First Initial Flow <u>14</u>	<input type="checkbox"/> Jars _____	T-Started <u>0114</u>
(C) First Final Flow <u>16</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0306</u>
(D) Initial Shut-In <u>22</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0521</u>
(E) Second Initial Flow <u>15</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0651</u>
(F) Second Final Flow <u>16</u>	<input checked="" type="checkbox"/> Mileage <u>156 RT</u> 156	Comments _____
(G) Final Shut-In <u>18</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1888</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>30</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1781</u>
	Sub Total <u>1431</u>	MP/DST Disc't _____

Approved By _____ Our Representative Brennan Lousdale

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.



COMPANY **COBALT ENERGY, LLC**
 LEASE **Mollhagen Trust 'A' #1-6**
 FIELD **Willcat**

LOCATION **2438' FSL & 422' FEL**
 SEC **6** TWP **8S** RGE **25W**
 COUNTY **Graham** STATE **KS**

CONTRACTOR **Murfin Drilling Co., Rig #16**
 SPUD **08/17/19** COMP **08/24/19**
 RTD **3995'** LTD **3997'**
 MUD UP **3400'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3500'** TO **RTD**
 DRILLING TIME KEPT FROM **3500'** TO **RTD**
 SAMPLES EXAMINED FROM **3500'** TO **RTD**

GEOLOGICAL SUPERVISION FROM **3585'** TO **RTD**
 GEOLOGIST ON WELL **Corey N. Baker**
 Pioneer Energy Services

FORMATION TOPS
 Anhydrite 2153 (+306)
 Base of Anhydrite 2185 (+274)
 Heebner 3701 (-1242)
 Lansing 3743 (-1284)
 Stark 3909 (-1450)
 BKC 3955 (-1496)
 RTD
 LTD 3997 (-1538)

ELEVATIONS
 KB **2459'**
 GL **2454'**
 Measurements Are All From **KB**

CASING
 Conductor **NA**
 Surface **8 5/8" @ 218'**
 Production **None**

Electrical Surveys
 Dial Induction, Neutron-Density, Microlog

Section

LITHOLOGY
 Anhydrite
 Sandstone
 Limestone
 Shale
 Carb Sh
 Cherty LS
 Chert
 Dolomite

REMARKS The Mollhagen Trust did not run as 3D had suggested but did carry shows in multiple LKC zones. DST #3 did recover a small amount of oil but the structural position and the tight test convinced the operator to plug the well as a dry hole.

Respectfully Submitted,
 Corey Baker
 Vice President - Exploration
 Cobalt Energy, LLC

API #15-065-24170-00-00

LEGEND

DEPTH	DRILLING TIME IN MINUTES PER FOOT (Rate of Penetration Increases)	LITHOLOGY	SAMPLE DESCRIPTION	REMARKS
2100-2153		Anhydrite		Anhydrite 2153 (+306)
2153-2186		Anhydrite		Base of Anhydrite 2186 (+273)

Skip drilling time from 2200-3500', start sample descriptions @ 3500'

DEPTH	DRILLING TIME IN MINUTES PER FOOT (Rate of Penetration Increases)	LITHOLOGY	SAMPLE DESCRIPTION	REMARKS
3500-3550		Shale	LS: wht-lt gry, f xtn, foss in prt, chiky in prt, tr-pr intrxtin & pp por, ns LS: AA, w/cctny txt, abndt chrt, milky wht, shrp, ang, dns	Bit trip @ 3499' 2 cones were loose Rig Mud Check Vis: 49 Weight: 8.7 LCM: 2# 8/17/19 - MIRT, RURT Spud @ 12:45PM 8/18/19 - 7:00 AM Drig @ 600' 8/19/19 - 7:00 AM Drig @ 2525' 8/20/19 - 7:00 AM Drig @ 3430' 8/21/19 - 7:00 AM TOO H w/DST #1 @ 3780' 8/22/19 - 7:00 AM CFS @ 3875' 8/23/19 - 7:00 AM TOO H w/DST #4 @ 3930' Plug & Abandon Job complete @ 11:45PM Call Point 3300' 10:00PM on 8/19/19 Geologist on location 3585' 2:00PM on 8/19/19
3550-3600		Shale	SH: vari-color, silty	
3600-3650		Shale	SS: silty, shly, gry, micro-grn, gils, friable in prt, well sorted, ns LS: wht-lt gry, vf xtn, chiky & chrt in prt, foss, tr-pr intrxtin & pp por, ns LS: AA	
3650-3700		Shale	SH: blk-gry SH: vari-color, silty, soft SH: AA	DST #1 (3758-80') Lansing 'C' zone Open 30" Shut-in 30" Open 30" Shut-in 60" 1st Open: Faint surface blow, died in 5". ISI: No return. 2nd Open: No blow. FSI: No return. Rec: 627' Mud IFP: 317-323# FFP: 322-324# SIP: 1160-1190# *Tool possibly opened before getting to bottom.
3700-3750		Shale	LS: wht-lt gry, vf xtn, chrt, chiky in prt, foss, sec calc cem, no vis por, ns LS: wht-lt gry, f xtn, chrt, chiky, foss, ool in prt, tr-pr intrprt & pp por, ns SH: vari-color, arg SH: blk-gry	Heebner 3701 (-1242) Rig mud check Vis: 54 Weight: 8.9 LCM: 2#
3750-3800		Shale	LS: wht-lt gry, f xtn, chrt, chiky, foss, ool in prt, tr-pr intrprt & pp por, ns SH: vari-color, arg LS: wht-lt gry, vf xtn, chrt, chiky, no vis por, ns SH: blk-gry LS: AA, blk, dns	Lansing 3743 (-1284) Rig Mud Check Vis: 54 Weight: 8.9 LCM: 1.5# CFS @ 3780'
3800-3850		Shale	LS: AA SH: vari-color, arg LS: wht-lt gry, f xtn, chrt, chiky, no vis por, ns SH: vari-color, arg LS: It gry to gry, vf xtn, chrt, sli chiky, no vis por, 10-12 cuttings md xtn, partial foss ool grnstr, sli chiky, pr-f intrprt & vug por, vry sli pp beads of hvly oil on brk, vry slow cut, It to drk brn stn, vry sli odor LS: crm-lt gry, matt, vf xtn, chrt, sli chiky, dns, no vis por, ns	Rig Mud Check Vis: 57 Weight: 9.0 LCM: 2# Rig Mud Check Vis: 54 Weight: 8.9 LCM: 1.5# CFS @ 3820' DST #2 (3752-3820') Lansing 'C-F' zones Open 30" Shut-in 45" Open 60" Shut-in 90" 1st Open: Fair blow, built to B.O.B in 20". ISI: No return blow. 2nd Open: Fair blow, built to B.O.B in 50". FSI: No return blow. Rec: 171' Watery Mud (40% wtr, 60% mud) 189' Muddy Water (40% mud, 60% wtr) 315' Muddy Water (10% mud, 90% wtr) 675' Total Recovery IFP: 39-157# FFP: 155-331# SIP: 1214-1209#
3850-3900		Shale	LS: AA, blk, dns SH: blk, carb LS: gry-drk gry, matt, w/blk flecks, chrt, no vis por, ns SH: vari-color, arg LS: wht-lt gry, f xtn, chrt, chiky, dns, 5-6 cuttings wht-gry, vf xtn, chrt, pr xtn dentritic fract por, pr sfo within por, slow cut, acc gb, brn-drk brn dentritic stn, pr odor LS: wht-lt gry, vf xtn, chrt, chiky, dns, no vis por, ns	CFS @ 3875' Rig Mud Check Vis: 79 Weight: 9.0 LCM: 1# Mud-Co check Vis: 69 Weight: 9.1 LCM: 1#
3900-3950		Shale	LS: crm-lt gry, 25% cuttings f-md xtn, part foss ool grnstr, chrt, sli chiky, pr intrprt, pp & scatt vug por, pr sfo within por, slow cut, acc gb, brn-drk brn dentritic stn, pr odor SH: vari-color, arg LS: wht-lt gry, vf xtn, chrt, chiky, dns, no vis por, ns SH: vari-color, arg LS: crm-lt gry, 25% cuttings f-md xtn, part foss ool grnstr, chrt, sli chiky, pr intrprt, pp & scatt vug por, pr sfo within por, slow cut, acc gb, brn-drk brn dentritic stn, pr odor SH: vari-color, arg LS: wht-lt gry, vf xtn, chrt, chiky, dns, no vis por, ns SH: vari-color, arg LS: It gry, vf xtn, chrt, chiky in prt, dns, no vis por, ns	CFS @ 3910' CFS @ 3930'
3950-4000		Shale	SH: Flood, vari-color, arg SH: vari-color, silty, soft, arg SH: vari-color, silty, soft, arg SH: vari-color, silty, soft, arg LS: wht-lt gry, vf xtn, chrt, chiky in prt, no vis por, ns LS: AA	Stark 3909 (-1450) DST #3 (3840-3910') Kansas City 'H-J' zones Open 30" Shut-in 45" Open 60" Shut-in 90" 1st Open: Weak blow, built to 3". ISI: No return blow. 2nd Open: Weak blow, built to 4.5". FSI: No return blow. Rec: 5' Clean Oil 75' Oil Cut Mud (15% oil, 85% mud) 80' Total Recovery IFP: 14-16# FFP: 15-16# SIP: 1197-1207# BKC 3955 (-1496) DST #4 (3910-3930') Kansas City 'K' zones Open 30" Shut-in 45" Open 60" Shut-in 90" 1st Open: Surface blow, built to 1/4". ISI: No return blow. 2nd Open: No blow. FSI: No return blow. Rec: 2' Oil Specked Mud IFP: 14-16# FFP: 15-16# SIP: 122-18# RTD 3995 (-1536) LTD 3997 (-1538)

Company **COBALT ENERGY, LLC** Elevation **2459' KB**
 Lease **Mollhagen Trust 'A' #1-6**
 Location **2438' FSL & 422' FEL** SEC. **6** TWP **8S** RGE **25W**
 County **Graham** State **Kansas**

Chart for DST #1 (Lansing 'C')

Chart for DST #2 (Lansing 'C-F')

Chart for DST #3 (Kansas City 'H, I, J')

Chart for DST #4 (Kansas City 'K')