



1115376

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	DB Unit 'A' 1-14
Doc ID	1115376

Tops

Name	Top	Datum
Anhydrite	1733	768
Base Anhydrite	1766	735
Heebner	3823	-1322
Lansing	3867	-1366
Stark	4134	-1633
BKC	4254	-1753
Pawnee	4342	-1841
Fort Scott	4390	-1889
Cherokee	4415	-1914
Mississippian	4487	-1986

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

February 12, 2013

Nicholas D. Hess
Cobalt Energy LLC
115 S. BELMONT #12
PO BOX 8037
WICHITA, KS 67208

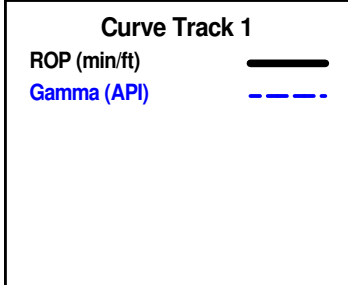
Re: ACO1
API 15-135-25520-00-00
DB Unit 'A' 1-14
SE/4 Sec.14-20S-26W
Ness County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Nicholas D. Hess



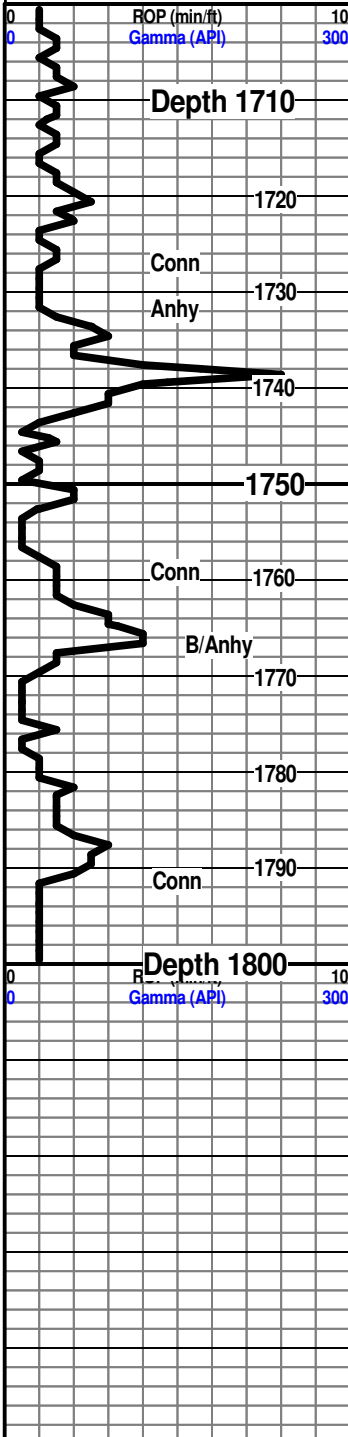
Depth

Lithology

Oil Shows

Geological Descriptions

Remarks

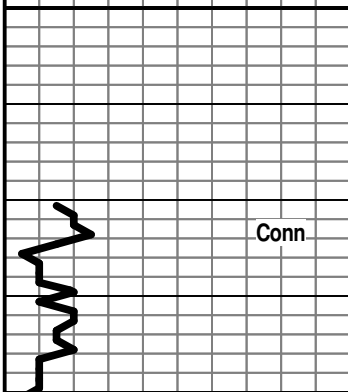


Depth

Geological Descriptions

Anhy 1732 (+769)

Base Anhy 1767 (+734)

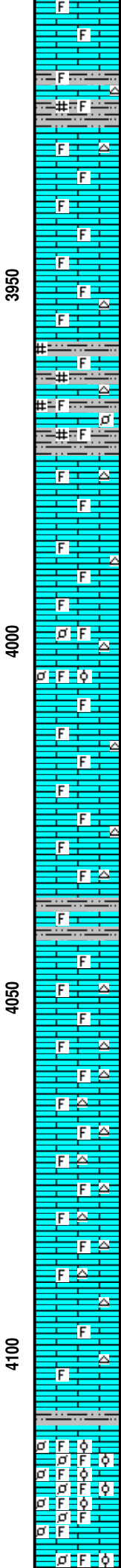
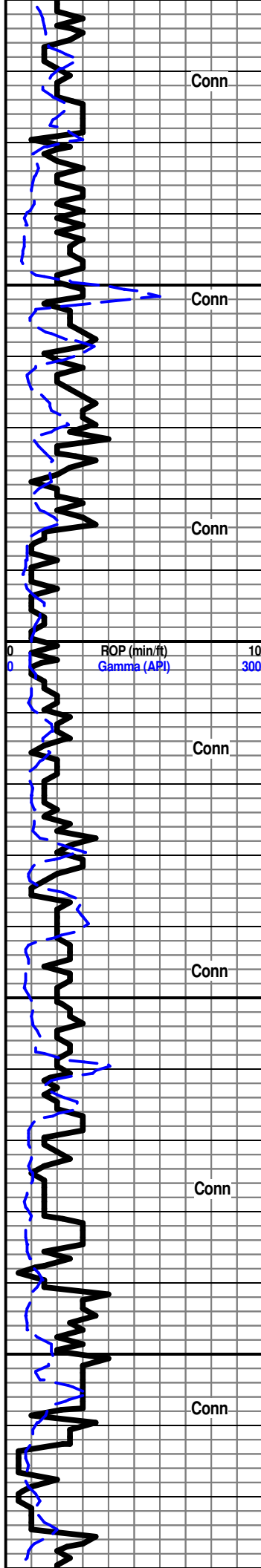


Depth

Geological Descriptions

Geologist on Location @ 3660'.
5:00 pm Jan. 19, 2013.

Start 1 ft Drilling time @ 3670



ang.

Ls, wh, tan, mdstn, sl foss, soft. Ls, tan, mdstn, dns. Ls, tan, wkestrn, foss.

Shy Ls, gry, mdstn, wkestrn, foss, dns. Tr Cht, milky, tan, gry, semi transl, ang.

Flood Ls, wh, tan, mdstn, wkestrn, foss, clear 2nd calcite, spt chky text. Ls, tan, mdstn, sl foss, dns. Tr Cht, milky, tan, semi transl, ang.

Ls, wh, tan, mdstn, sl foss, spt chky text. Ls, tan, wkestrn, tr pkstn, foss, pell, 2nd calcite, tr pp por.

Ls, wh, tan, mdstn, sl foss, spt chky text. Ls, tan, lt gry, mdstn, sl foss, dns. Tr Cht, tan, transl, ang.

Sh & Shy Slstn, gry, dk gry, tr foss, pyr. Ls, tan, lt gry, mdstn, dns. Ls, wh, tan, mdstn, wkestrn, foss, soft-hard.

Sh & Shy Slstn, gry, dk gry, tr foss, pyr. Shy Ls, gry, foss, arg. Ls, tan, brn, mdstn, wkestrn, foss, pell, 2nd calcite, dns. Tr Cht, tan, milky, lt gry, transl, ang.

Ls, wh, tan, mdstn, wkestrn, foss, soft-hard. Ls, tan, brn, lt gry, mdstn, wkestrn, foss, soft-hard. Tr Cht, milky, tan, brn, transl, ang.

Ls, wh, tan, mdstn, sl foss, spt chky text. Ls, wh, tan, lt gry, mdstn, wkestrn, foss, soft-hard. Ls, tan, lt gry, mdstn, dns. Tr Cht, tan, milky, lt gry, foss, ang.

Ls, wh, mdstn, chky text. Ls, wh, tan, mott, wkestrn, tr pkstn, foss, pell, tr fn ool, pp por, foss moldic por, tr fn oom por. Ls, tan, mdstn, wkestrn, foss, dns. Tr Cht, milky, tan, transl, ang.

Ls, wh, mdstn, chky text. Ls, wh, tan, mott, mdstn, wkestrn, foss, lg sparite. Ls, tan, lt gry, mdstn, sl foss, dns. Tr Cht, milky, tan, transl, ang.

Ls, wh, tan, mdstn, spt chky text. Ls, tan, mdstn, wkestrn, foss, tr clear 2nd calcite filled por, soft-hard. Cht, tan, milky, transl, ang.

Ls, tan, brn, gry, mott, wkestrn, foss, dns. Ls, wh, tan, mdstn, sl foss, dns. Shy Slstn, gry. Tr Cht, tan, lt gry, transl.

Ls, tan, mdstn, wkestrn, foss, tr lg sparite, tp pp por & isolated foss moldic por in dns matrix. Ls, wh, tan, mott, mdstn, spt chky text. Tr Cht, wh, sub op, ang.

Ls, wh, tan, mdstn, sl foss, spt chky text. Ls, tan, brn, gry, mdstn, wkestrn, foss, clear 2nd calcite, dns. Cht, tan, milky, foss, transl, ang.

Ls, wh, tan, mott, mdstn, soft chky text. Flood Cht, tan, brn, transl, ang, blk. Ls, tan, mdstn, clear 2nd calcite, dns.

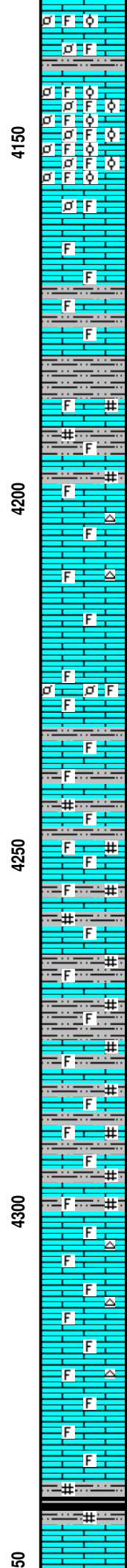
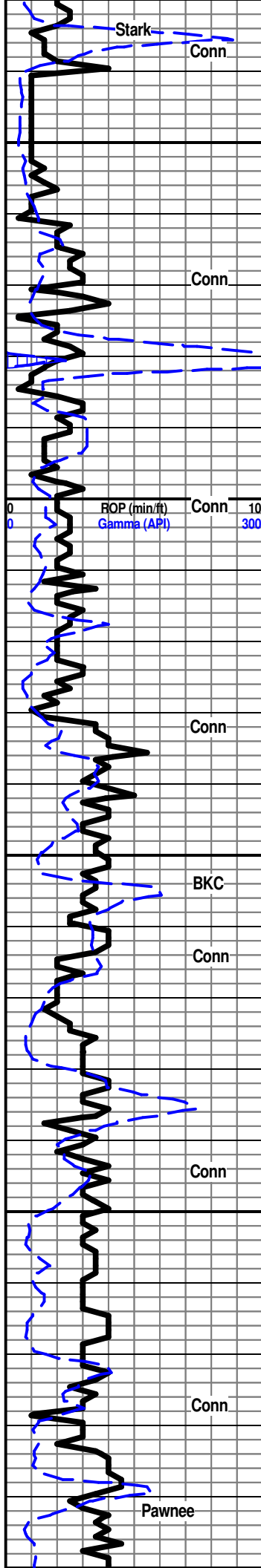
Ls, wh, tan, mott, mdstn, foss, spt chky text. Ls, wh, tan, wkestrn, foss, pp por, tr foss moldic por. Ls, tan, mdstn, dns. Abdnt Cht, tan, brn, transl, ang, blk.

Flood Ls, wh, tan, mott, mdstn, wkestrn, foss, spt chky text. Ls, tan, mdstn, sl foss, soft-hard. Ls, tan, mdstn, dns. Cht, milky, tan, foss, transl, ang.

Ls, tan, gry, mdstn, foss, dns. Ls, wh, tan, mott mdstn, soft-hard. Ls, tan, wkestrn, foss, clear 2nd calcite, dns. Cht, tan, lt gry, transl, ang.

Ls, wh, tan, foss, pell, fn ool in part, pkstn, tr rnstn, pp por, foss moldic por, poor to gd spt oom por, fair inter gran por, soft.

Ls, wh, tan, wkestrn, pkstn, foss, pell, fn ool in part, pp por, foss moldic por, poor to fair spt oom por, clear 2nd calcite filling



moldic por, poor to fair scatt oom por, clear 2nd calcite filling some por. Ls, tan, pkstn, foss, pell, fn ool, 2nd calcite, dns.

Ls, wh, tan, mott, pkstn, tr grnstn, foss, pell, fn ool in part, pp por, foss moldic por, poor to gd oom por, clear 2nd calcite filling some por.

Ls, wh, tan, mott, pkstn, tr grnstn, foss, pell, fn ool in part, pp por, foss moldic por, poor to gd oom por, clear 2nd calcite filling some por.

Ls, wh, tan, mdstn, wkestrn, foss, clear 2nd calcite, dns. Ls, tan, mdstn, dns.

Flood Ls, tan, mdstn, sl foss, dns. Ls, wh, tan, wkestrn, pkstn, foss, pell, dns. Ls, brn, gry, wkestrn, foss, dns. Shy Ls, gry, foss, arg, pyr.

Sh & Shy Slstn, gry, dk brn, blk, pyr. Tr Sh, blk, carb, pyr.

Ls, tan, dk brn, gry, mdstn, wkestrn, foss, dns. Shy Ls, gry, dk gry, foss, arg, tr pyr.

Sh & Shy Slstn, gry, dk gry, foss, tr pyr. Shy Ls, gry, dk gry, foss, tr micro pyr.

Ls, wh, tan, mdstn, wkestrn, foss, clear 2nd calcite, tr pyr, soft-hard. Ls, tan, wkestrn, foss, pell, tr clear 2nd calcite filled por, dns. Tr Cht, tan, brn, transl, ang.

Ls, tan, brn, mdstn, wkestrn, foss, tr pyr, dns. Ls, tan, gry, mott, wkestrn, dk gry, foss, arg, in part. Shy Slstn, gry, dk gry, sl foss, pyr.

Ls, wh, tan, wkestrn, pkstn, foss, pell, pp por, spt foss moldic por, fair inter gran por.

Ls, tan, brn, lt gry, wkestrn, tr pkstn, foss, pell, 2nd calcite, dns. Ls, tan, brn, mdstn, wkestrn, foss, dns. Shy Ls, tan, gry, dk brn, wkestrn, foss, arg, tr pyr.

Ls, tan, brn, mdstn, wkestrn, foss, dns. Ls, tan, wkestrn, foss, tr micro pyr, soft-hard. Tr Shy Ls, gry, wkestrn, foss, arg, tr pyr.

Ls, wh, tan, mdstn, foss, soft-hard. Ls, tan, brn, mdstn, wkestrn, foss, 2nd calcite, dns.

Ls, tan, brn, mdstn, wkestrn, foss, 2nd calcite, soft-hard. Ls, tan, brn, mdstn, foss, dns. Sh & Shy Slstn, gry, soft.

Flood Sh & Shy Slstn, gry, dk gry, blk, tr foss, pyr. Shy Ls, tan, brn, gry, wkestrn, foss, arg, tr pyr. Ls, tan, brn, wkestrn, foss, 2nd calcite, dns.

Sh & Shy Slstn, gry, dk gry, blk, tr foss, pyr. Shy Ls, tan, brn, gry, wkestrn, foss, aarg, tr pyr. Ls, tan, brn, mott gry, wkestrn, foss, w/dk gry sh stringers, pyr.

Sh & Slstn, gry, dk gry, blk, pyr. Shy Ls, gry, wkestrn, foss, soft, Ls, brn, dk brn, wkestrn, foss, 2nd calcite filled por, dns.

Ls, wh, tan, mott, mdstn, wkestrn, foss, soft-hard. Ls, tan, brn, mdstn, sl foss, dns. Tr Cht, clear, tan, transl, ang.

Flood Ls, wh, tan, mdstn, foss, spt chky text. Ls, wh, tan, mott, mdstn, wkestrn, foss, clear 2nd calcite filled por, dns. Tr Cht, clear, tan, brn, yell, transl, ang.

Ls, tan, mdstn, crypto xln, clear 2nd xln filled por, & frac, dns. Ls, tan, mdstn, wkestrn, foss, clear 2nd xln filled por. Tr Cht, clear, tan, brn, yell, transl, ang. Tr clear geodal qtz w/xln faces.

Ls, wh, tan, mdstn, spt chky text. Ls, tan, mdstn, wkestrn, foss, 2nd clear calcite filled por, dns.

Sh & Shy Slstn, gry, dk gry, blk, tr foss, micro pyr. Shy Slstn, lt gry, micro pyr, soft.

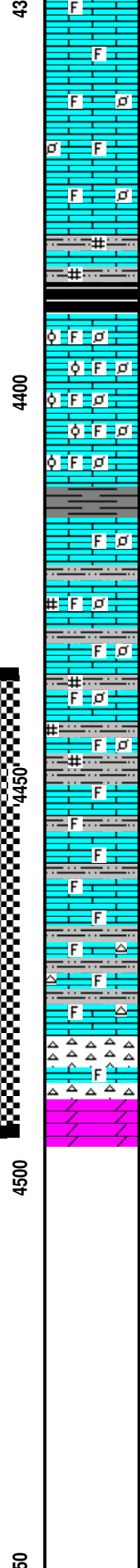
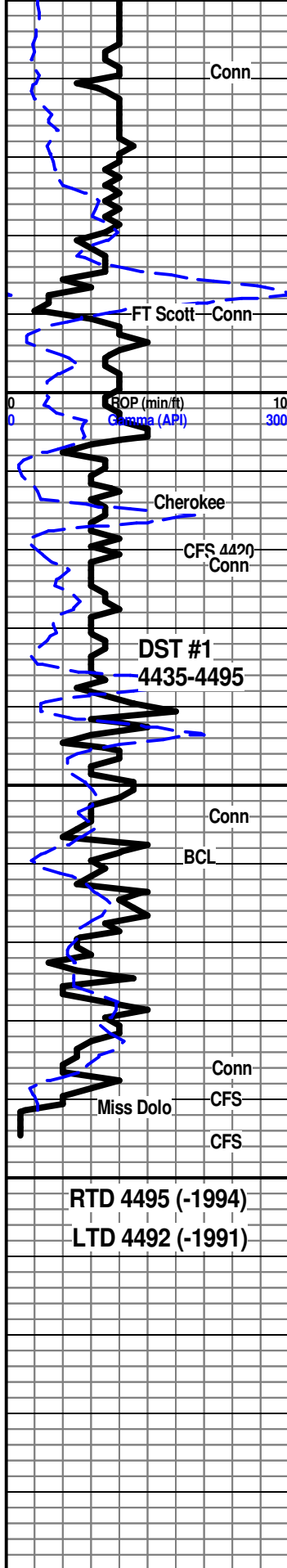
Ls, tan, mdstn, cryptoxln, dns. Ls, wh, tan, mott, mdstn, sl foss, dns. Ls, tan, mdstn, wkestrn, foss, tr micro ovr, dns.

Stark 4134 (-1633)

Mud-CO/Service Mud
01/20/2013 11:20 am
Drilling @ 4179'
Vis 44, Wt 9.2, WL 6.2
Ph 10.5, LCM 2#, Chl 3,400

BKC 4254 (-1753)

Pawnee 4342 (-1841)



Ls, tan, brn, mdstn, crypto xln, clear 2nd cacite filled por, dns.
Ls, wh, tan, mdstn, wkestrn, foss, pell, dns.

Ls, tan, brn, mdstn, crypto xln, dns. Ls, tan, mdstn, wkestrn, foss, pell, tr micro pyr, dns.

Sh & Shy Siltstn, dk gry-blk, micro pyr. Shy Ls, gry, mdstn, arg, micro pyr. Flood Sh, blk, carb, pyr, soft.

Ls, lt gry, tan, wkestrn, foss, pell, soft. Ls, tan, wkestrn, tr pkstn, foss, pell, ool, soft-hard. Ls, tan, brn, wkestrn, pkstn, foss, pell, ool, clear 2nd calcite filled inter gran por, dns.

Flood Ls, tan, brn, wkestrn, pkstn, foss, pell, ool, inter gran por filled w 2nd calcite, dns. Ls, lt gry, mott tan, wkestrn, pkstn, foss, pell, ool, tr micro pyr, soft-hard.

Shy Siltstn, gry, dk gry, blk, micro pyr.

Flood Ls, wh, tan, mott, mdstn, wkestrn, foss, pell, soft-hard. Ls, lt gry, mdstn, wkestrn, foss, micro pyr.

Ls, wh, tan, mott, mdstn, wkestrn, foss, pell, soft-hard. Sh & Shy Siltstn, gry, dk gry, pyr.

Ls, wh, tan, mott, mdstn, wkestrn, foss, pell, tr micro pyr, soft-hard. Ls, tan, brn, mdstn, dns. Sh & Shy Siltstn, gry, grn, dk gry, tr foss, micro pyr.

Sh & Shy Siltstn, gry, grn, dk gry, blk, tr foss, pyr. Ls, wh, tan, mott, mdstn, wkestrn, foss, tr pell, soft-hard. Ls, tan, brn, mdstn, dns. Ls, brn, gry, mdstn, micro pyr.

Sh & Shy Siltstn, AA. Ls, tan, brn, mdstn, tr foss, clear 2nd calcite, tr pyr, dns. Ls, crm, tan, mdstn, wkestrn, foss, tr pell, clear 2nd calcite, soft-hard. Sh & Shy Siltstn, gry, grn, dk gry, tr foss, pyr.

Sh & Shy Siltstn, AA. Shy Ls, gry, wkestrn, tan to dk gry foss, arg in part tr pyr. Ls, wh, tan, mdstn, wkestrn, foss, 2nd calcite, few frag w/ trace blk spt dead oil stn.

4468-4482 Sh & Shy Siltstn, AA. Shy Ls, gry, dk gry, mdstn, arg, tr pyr. Ls, tan, brn, gry, wkestrn, tan-gry foss, arg in part, tr pyr. Ls, crm, tan, brn, mdstn, dns. Ls, crm, tan, wkestrn, foss, pell, 2nd calcite, pp por, 1% frag w/spt blk oil stn in isolated vug por & pp por. Tr Cht, milky tan, transl, ang.

CFS@ 4490: 4482-4490 Sh & Siltstn, AA. Flood Cht, clear, milky, tan, yell, org, transl, SS spt blk oil stn, tr tarry oil. Few frag trip Cht with blk stn. Ls, tan, brn, gry, mdstn, wkestrn, foss, tr pyr, tr pp blk stn, in por.

CFS @ 4495: 4490-4495 Slight odor. Dolo tan, brn, vfn-fn xln, poor to fair suc por, vug & foss moldic por, SS tan brn FO on break w/yell flor, tr gas bubbles.

Fort Scott 4390 (-1889)

Cherokee 4414 (-1913)

Short Trip @ 4420'. Stuck in Hole 5 stands off bottom @ 4137'. Was able to work pipe free and complete 15 stand short trip. Did not hit anything going back to bottom.

BCL 4461 (-1960)

Mud-CO/Service Mud
01/21/2013 11:35 am
CFS @ 4490'
Vis 51, Wt 9.4, WL 5.6
Ph 11.0, LCM 1#, Chl 3,000

Miss Dolomite 4491 (-1990)

DST #1 (Miss) 4435-4495/30-60-60-90
1st Op: 1/4 inch blow built to 8 inches.
2nd Op: BOB/40 min.
Recover: 298' Total Fluid.
112' OCM (2% Oil, 98% Mud).
62' M w/show of Oil (100% Mud).
124' MCW (70% Wtr, 30% Mud).
IH 2235#, IFP 24-70#, ISIP1304#,
FFP 73-154#, FSIP 1303#, FH 2158#,
BHT 123 F
API .51 @ 42 F. Chl 23,000.



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Mike Maune

D-B Unit A #1-14

14-20s-26w Ness,KS

Start Date: 2013.01.21 @ 17:53:46

End Date: 2013.01.22 @ 05:36:16

Job Ticket #: 50124 DST #: 1

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

Printed: 2013.01.22 @ 08:28:12

Cobalt Energy LLC
14-20s-26w Ness,KS
D-B Unit A #1-14
DST # 1
Miss
2013.01.21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy LLC

14-20s-26w Ness, KS

PO Box 8037
Wichita, KS 67208

D-B Unit A #1-14

ATTN: Mike Maune

Job Ticket: 50124

DST#: 1

Test Start: 2013.01.21 @ 17:53:46

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:33:46

Time Test Ended: 05:36:16

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

Interval: 4435.00 ft (KB) To 4495.00 ft (KB) (TVD)

Reference Elevations: 2501.00 ft (KB)

Total Depth: 4495.00 ft (KB) (TVD)

2491.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8373 Inside

Press @ RunDepth: 154.02 psig @ 4436.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.21

End Date:

2013.01.22

Last Calib.:

2013.01.22

Start Time: 17:53:51

End Time:

05:36:16

Time On Btm:

2013.01.21 @ 22:31:16

Time Off Btm:

2013.01.22 @ 02:37:16

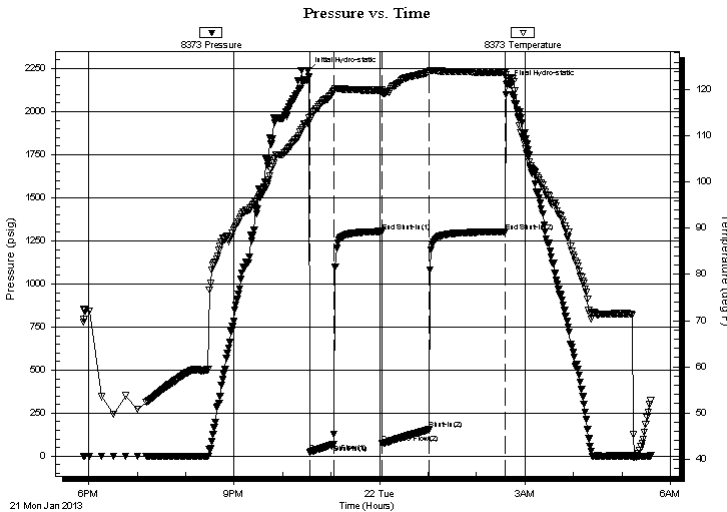
TEST COMMENT: IF: 1/4" blow built to 8" in 30 min.

IS: No return.

FF: BOB in 40 min.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2235.02	112.85	Initial Hydro-static
3	24.30	113.31	Open To Flow (1)
32	70.40	119.68	Shut-In(1)
92	1304.69	119.92	End Shut-In(1)
92	73.69	119.34	Open To Flow (2)
150	154.02	123.81	Shut-In(2)
245	1303.84	123.80	End Shut-In(2)
246	2158.25	122.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw 70%w 30%m	1.74
62.00	mud show of oil 100%m	0.87
112.00	ocm 2%o 98%m	1.57

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

14-20s-26w Ness, KS

PO Box 8037
Wichita, KS 67208

D-B Unit A #1-14

Job Ticket: 50124

DST#: 1

ATTN: Mike Maune

Test Start: 2013.01.21 @ 17:53:46

Tool Information

Drill Pipe:	Length: 4420.00 ft	Diameter: 3.80 inches	Volume: 62.00 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 62.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	4435.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Stubb	1.00			4408.00	
Shut In Tool	5.00			4413.00	
Hydraulic tool	5.00			4418.00	
Jars	5.00			4423.00	
Safety Joint	3.00			4426.00	
Packer	5.00			4431.00	28.00 Bottom Of Top Packer
Packer	4.00			4435.00	
Stubb	1.00			4436.00	
Recorder	0.00	8373	Inside	4436.00	
Recorder	0.00	8356	Outside	4436.00	
Perforations	20.00			4456.00	
Change Over Sub	1.00			4457.00	
Drill Pipe	32.00			4489.00	
Change Over Sub	1.00			4490.00	
Bullnose	5.00			4495.00	60.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

14-20s-26w Ness,KS

PO Box 8037
Wichita, KS 67208

D-B Unit A #1-14

Job Ticket: 50124

DST#: 1

ATTN: Mike Maune

Test Start: 2013.01.21 @ 17:53:46

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

23000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcw 70%w 30%m	1.739
62.00	mud show of oil 100%m	0.870
112.00	ocm 2%o 98%m	1.571

Total Length: 298.00 ft Total Volume: 4.180 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

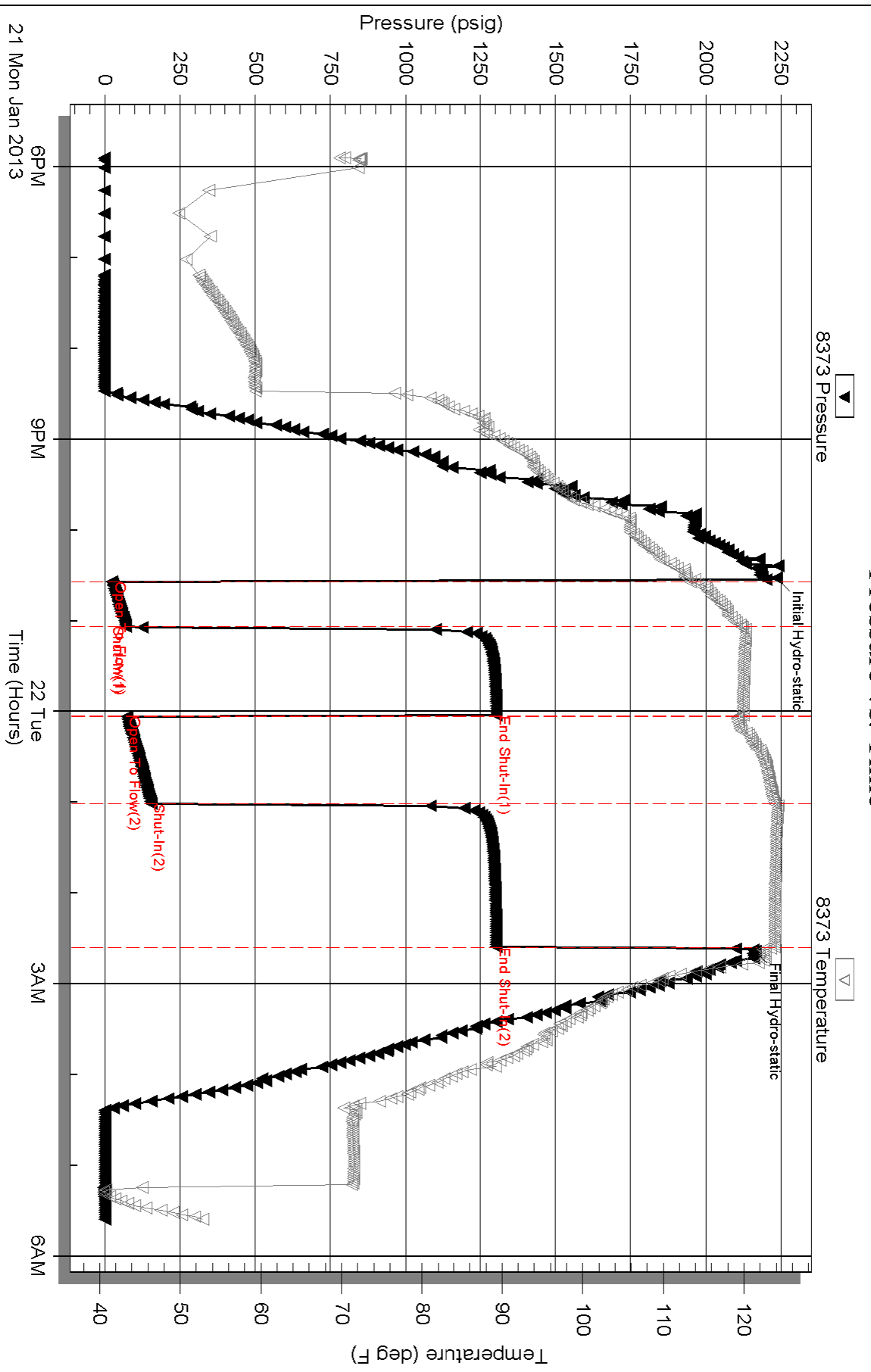
Serial #:

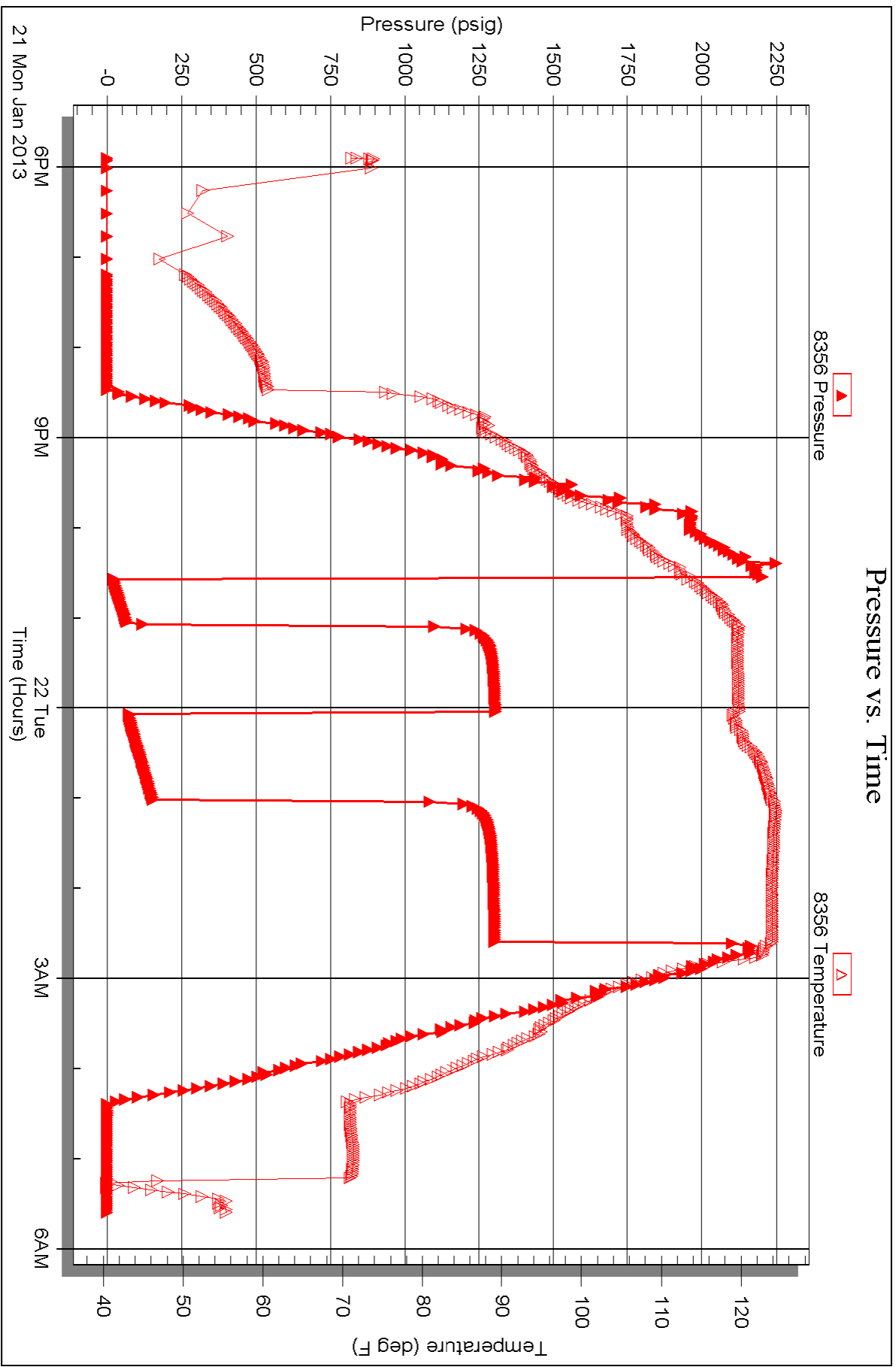
Laboratory Name:

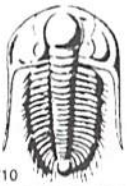
Laboratory Location:

Recovery Comments: .51@42=23000

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50124

Well Name & No. D-B unit A 1-14 Test No. 1 Date 1-21-13
 Company Cobalt Energy LLC Elevation 2501 KB 2491 GL
 Address 1155, Belmont #12 Wichita, KS 67208
 Co. Rep / Geo. Mike Mauer Rig Southwind 70
 Location: Sec. 14 Twp. 20S Rge. 26W Co. Ness State KS

Interval Tested 4435 4495 Zone Tested Miss
 Anchor Length 60 Drill Pipe Run 4420 Mud Wt. 9.4
 Top Packer Depth 4430 Drill Collars Run — Vis 51
 Bottom Packer Depth 4435 Wt. Pipe Run — WL 5.6
 Total Depth 4495 Chlorides 3000 ppm System LCM 1
 Blow Description IF: 1/4 blow built to 8 min 30 min.
IS: No return.
FK: BOB in 40 min.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>112</u>	<u>ocm</u>	<u>2</u>		<u>98</u>	
<u>62</u>	<u>mud show of oil</u>			<u>100</u>	
<u>124</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	

Rec Total 298 BHT 123 Gravity — API RW .51 @ 42° F Chlorides 23,000 ppm

(A) Initial Hydrostatic <u>2235</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>16:30</u>
(B) First Initial Flow <u>24</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:53</u>
(C) First Final Flow <u>70</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>22:32</u>
(D) Initial Shut-In <u>1304</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2:32</u>
(E) Second Initial Flow <u>73</u>	<input checked="" type="checkbox"/> Hourly Standby <u>2-200.00</u>	T-Out <u>5:40</u>
(F) Second Final Flow <u>154</u>	<input checked="" type="checkbox"/> Mileage <u>100 - 155</u>	Comments <u>Rig had to wait</u>
(G) Final Shut-In <u>1303</u>	<input type="checkbox"/> Sampler	<u>one hour to run</u>
(H) Final Hydrostatic <u>2158</u>	<input type="checkbox"/> Straddle	<u>for Hydr. Parts</u>
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Initial Open <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	Total <u>1930</u>
Final Flow <u>60</u>		MP/DST Disc't
Final Shut-In <u>90</u>	Sub Total <u>1930</u>	

Approved By Michael K Mauer Our Representative [Signature]

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