



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1100302
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1100302

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	Miner Unit 'A' 1-27
Doc ID	1100302

Tops

Name	Top	Datum
Anhydrite	1557	+732
Base Anhydrite	1592	+697
Topeka	3367	-1078
Heebner	3664	-1375
Lansing	3710	-1421
BKC	4001	-1712
Ft Scott	4201	-1912
Cherokee	4226	-1937
Mississppian	4298	-2009

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

November 14, 2012

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

Re: ACO1
API 15-135-25492-00-00
Miner Unit 'A' 1-27
SE/4 Sec.27-18S-24W
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

ALLIED OIL & GAS SERVICES, LLC

059068

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Moore Road 1/4
10-26-12

DATE <i>10-26-12</i>	SEC. <i>27</i>	TWP. <i>18</i>	RANGE <i>24</i>	CALLED OUT <i>5:00 PM</i>	ON LOCATION <i>5:00 PM</i>	JOB START <i>11:30 AM</i>	JOB FINISH <i>12:30 AM</i>
LEASE <i>Minor Unit A</i>	WELL # <i>1-27</i>	LOCATION <i>New City - 2 1/2 West 1/2 Moore</i>		COUNTY <i>New</i>	STATE <i>Ka</i>		

OLD OR (NEW) (Circle one) NEW *Wait into*

CONTRACTOR *Mud #2* OWNER *Same*

TYPE OF JOB *100 Stage - Bottom*

HOLE SIZE *7 7/8"* T.D. *4365'*

CASING SIZE *5 1/2"* DEPTH *4359'*

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL DV - *1517'* DEPTH _____

PRES. MAX *1200#* MINIMUM *100#*

MEAS. LINE _____ SHOE JOINT *30'*

CEMENT LEFT IN CSG. *30'*

PERFS. _____

DISPLACEMENT *(68.6) 120 - 37.01 Mud*

W/ KCL EQUIPMENT
1st 10 bbls

PUMP TRUCK # <i>3106</i>	CEMENTER <i>Tamm N Jekem</i>	HELPER <i>Taint Hall</i>	<i>1</i>
BULK TRUCK # <i>344-112</i>	DRIVER <i>Don Casper</i>		<i>2</i>
BULK TRUCK # <i>482-170</i>	DRIVER <i>Joel Monahan</i>		<i>2</i>

CEMENT AMOUNT ORDERED *95 sacks @ 35 lbs. 10% red, 1/4 #*

<i>Flashed/M - 100 lbs. ASC. 5# Kalsol/M</i>		
<i>3/10 FL-100 - 15 Defoamer</i>		
<i>4 gal KCL 500 gal ASF</i>		
COMMON	⊙	
POZMIX	⊙	
GEL	⊙	
CHLORIDE	⊙	
ASC 100	⊙	<i>20.90 2090.00</i>
<i>9554 hite wt</i>	⊙	<i>16.50 1567.50</i>
<i>Fl Seal 24</i>	⊙	<i>2.97 71.28</i>
<i>F1-160 28</i>	⊙	<i>18.90 529.20</i>
<i>Gilsonite 500</i>	⊙	<i>.98 490.00</i>
<i>Defo-mer 14</i>	⊙	<i>9.80 137.20</i>
HANDLING <i>230.67</i>	⊙	<i>2.48 572.06</i>
MILEAGE <i>9.86 x 34</i>	⊙	<i>2.60 76.90</i>
TOTAL		<i>5.534.14</i>

REMARKS:

Ran 4359' of 5 1/2" cas. Drugged Ball for Joint Block circulation. Circulated the Pumped Sealed ASF - 10 bbls KCL. Water mixed 95 lbs @ 35 lbs. 10% red 1/4 # Flashed/Fl followed by 100 lbs ASC. 5# Kalsol/Fl with FL-160 & Defoamer. Worked up. Released Plus. Annulled with Fresh H₂O & Mud. Landed Plug at 800' H₂O & float held.

SERVICE

DEPTH OF JOB <i>4359'</i>		
PUMP TRUCK CHARGE		<i>2.765.75</i>
EXTRA FOOTAGE	⊙	
MILEAGE <i>Hum 3</i>	⊙	<i>7.70 23.10</i>
MANIFOLD <i>Hum 3</i>	⊙	<i>4.40 13.20</i>
TOTAL		<i>2.802.05</i>

CHARGE TO: *Cobalt Energy Inc*

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<i>1 - 5 1/2 Stage Collar</i>	<i>5.335.26</i>	<i>5335.26</i>
<i>1 - 5 1/2 Guide Shoe</i>	<i>280.20</i>	<i>280.20</i>
<i>1 - 5 1/2 API Taper</i>	<i>334.62</i>	<i>334.62</i>
<i>5 - 5 1/2 Turbo Centralizer</i>	<i>93.60</i>	<i>468.00</i>
<i>5 - 5 1/2 Reg Centralizer</i>	<i>57.33</i>	<i>286.65</i>
<i>2 - 5 1/2 Baskets</i>	<i>394.29</i>	<i>788.58</i>
TOTAL		<i>7.493.21</i>

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *X PAT GERSTNER*

SIGNATURE *X Pat Gerstner*

SALES TAX (If Any) *779.88*

TOTAL CHARGES *15.830.01*

DISCOUNT *25% 4,432.40* IF PAID IN 30 DAYS

\$ 11,397.61

ALLIED OIL & GAS SERVICES, LLC 059069

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Hurst Bend Ea

DATE <u>10-27-12</u>	SEC <u>27</u>	TWP. <u>19</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>3:30 AM</u>	JOB FINISH <u>5:00 AM</u>
Manner <u>Winst</u> LEASE <u>A</u>		WELL # <u>1-27</u>	LOCATION <u>New city 2 1/2 West & North</u>	NEW	NEW	COUNTY <u>New</u>	STATE <u>Ks</u>
OLD OR NEW (Circle one)		<u>W/ auto</u>				<u>102</u>	<u>613</u>

CONTRACTOR Murfin 2 OWNER Jame

TYPE OF JOB Two Stage - Top

HOLE SIZE _____ T.D. 1736.5'

CASING SIZE 5 1/2 DEPTH 4359'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL DV Lead DEPTH 1517'

PRES. MAX 1500# MINIMUM 300#

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT Fresh H2O 36.10 bbls

CEMENT

AMOUNT ORDERED 375 lbs 65/35 690 Gal

500 Gallon ASF 4 Gal UCL

COMMON _____	@ _____	_____
POZMIX _____	@ _____	_____
GEL _____	@ _____	_____
CHLORIDE _____	@ _____	_____
ASC _____	@ _____	_____
<u>Lite wt 375</u>	@ <u>16.50</u>	<u>6187.50</u>
<u>500 Gallon</u>	@ <u>1.27</u>	<u>635.00</u>
<u>Flt Seal 94</u>	@ <u>2.97</u>	<u>279.18</u>
<u>UCL 4</u>	@ <u>34.40</u>	<u>137.60</u>
HANDLING <u>412.92</u>	@ <u>2.48</u>	<u>1024.70</u>
MILEAGE <u>17.12 x 34</u>	@ <u>2.60</u>	<u>133.52</u>
		TOTAL <u>8397.21</u>

EQUIPMENT

PUMP TRUCK CEMENTER Tim Dickson 1

366 HELPER Tim Hall 2

BULK TRUCK _____

394-112 DRIVER Don C. Joel 1

BULK TRUCK _____

_____ DRIVER _____

REMARKS:

Dropped bent to open stage collar
Opened stage collar @ 800# circulated
3 hours plugged bottom w/ 30 lbs
Mudbed w/ 120 lbs headed to eq.
Mixed 335 lbs 65/40 690 Gal 4 FT
Flashed/sh. worked up Released
Plus Applied with fresh H2O
Loaded pipe at 1500# & closed stage
collar, Released & Held. Cement did
circulate

CHARGE TO: Cobalt Energy Inc.

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 1517'

PUMP TRUCK CHARGE 2000.00 2406.25

EXTRA FOOTAGE _____

MILEAGE _____

MANIFOLD _____

TOTAL 2406.25

PLUG & FLOAT EQUIPMENT

_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____

TOTAL _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME AT GERSTNER

SIGNATURE AT Gerstner

SALES TAX (If Any) 456.07

TOTAL CHARGES 10,803.46

DISCOUNT 28% 3,024.97 IF PAID IN 30 DAYS

\$7,778.49



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC.**

PO Box 8037
Wichita, KS 67208

ATTN: Robert Hendrix

Miner Unit "A" #1-27

27-18s-24w Ness,KS

Start Date: 2012.10.24 @ 19:22:30

End Date: 2012.10.25 @ 03:58:30

Job Ticket #: 47949 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.31 @ 13:24:40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC.

27-18s-24w Ness, KS

PO Box 8037
Wichita, KS 67208

Miner Unit "A" #1-27

ATTN: Robert Hendrix

Job Ticket: 47949

DST#: 1

Test Start: 2012.10.24 @ 19:22:30

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:25:30

Time Test Ended: 03:58:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 4183.00 ft (KB) To 4226.00 ft (KB) (TVD)

Reference Elevations: 2289.00 ft (KB)

Total Depth: 4226.00 ft (KB) (TVD)

2284.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 55.11 psig @ 4218.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.24

End Date:

2012.10.25

Last Calib.: 2012.10.25

Start Time: 19:32:30

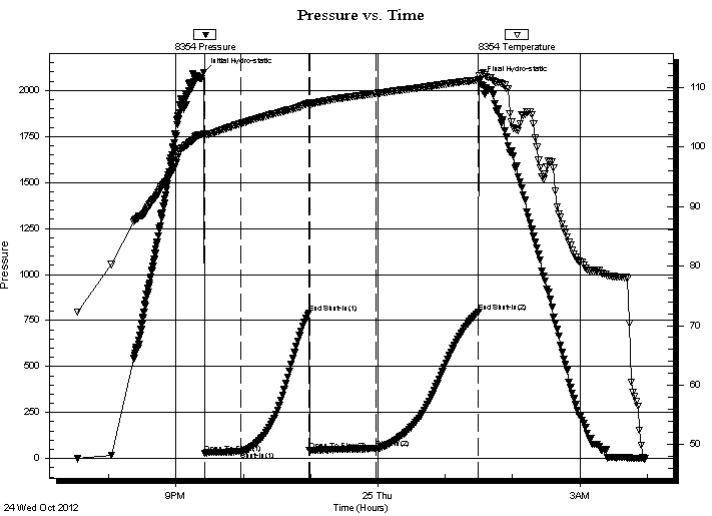
End Time:

03:58:30

Time On Btm: 2012.10.24 @ 21:25:00

Time Off Btm: 2012.10.25 @ 01:30:30

TEST COMMENT: IF-Very weak building blow . Built to 3 inches.
IS-No Return.
FF-Very weak building blow . Built to 7 inches.
FS-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2098.04	102.20	Initial Hydro-static
1	28.29	101.87	Open To Flow (1)
33	37.74	103.92	Shut-In(1)
94	791.93	107.34	End Shut-In(1)
94	42.86	107.05	Open To Flow (2)
154	55.11	108.98	Shut-In(2)
245	794.73	111.23	End Shut-In(2)
246	2052.43	112.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	10%Gas/5%Oil/85%Mud	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy, LLC.

27-18s-24w Ness, KS

PO Box 8037
Wichita, KS 67208

Miner Unit "A" #1-27

ATTN: Robert Hendrix

Job Ticket: 47949

DST#: 1

Test Start: 2012.10.24 @ 19:22:30

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:25:30

Time Test Ended: 03:58:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 4183.00 ft (KB) To 4226.00 ft (KB) (TVD)

Reference Elevations: 2289.00 ft (KB)

Total Depth: 4226.00 ft (KB) (TVD)

2284.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8520 Outside

Press @ Run Depth: psig @ 4218.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.24

End Date: 2012.10.25

Last Calib.: 2012.10.25

Start Time: 19:32:45

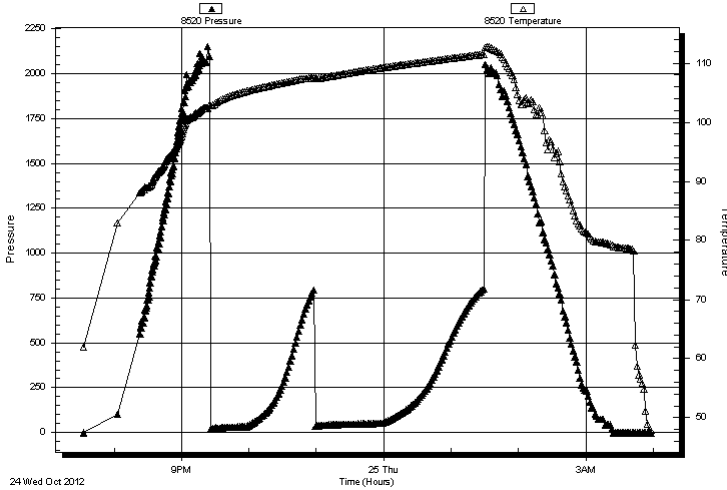
End Time: 03:57:45

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Very weak building blow . Built to 3 inches.
IS-No Return.
FF-Very weak building blow . Built to 7 inches.
FS-No Return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	10%Gas/5%Oil/85%Mud	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy, LLC.

27-18s-24w Ness, KS

PO Box 8037
Wichita, KS 67208

Miner Unit "A" #1-27

Job Ticket: 47949

DST#: 1

ATTN: Robert Hendrix

Test Start: 2012.10.24 @ 19:22:30

Tool Information

Drill Pipe:	Length: 3980.00 ft	Diameter: 3.80 inches	Volume: 55.83 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 56.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4183.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4156.00	
Shut In Tool	5.00			4161.00	
Hydraulic tool	5.00			4166.00	
Jars	5.00			4171.00	
Safety Joint	3.00			4174.00	
Packer	5.00			4179.00	28.00 Bottom Of Top Packer
Packer	4.00			4183.00	
Stubb	1.00			4184.00	
Perforations	1.00			4185.00	
Change Over Sub	1.00			4186.00	
Drill Pipe	31.00			4217.00	
Change Over Sub	1.00			4218.00	
Recorder	0.00	8354	Inside	4218.00	
Recorder	0.00	8520	Outside	4218.00	
Perforations	5.00			4223.00	
Bullnose	3.00			4226.00	43.00 Bottom Packers & Anchor
Total Tool Length:	71.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC.

27-18s-24w Ness, KS

PO Box 8037
Wichita, KS 67208

Miner Unit "A" #1-27

Job Ticket: 47949

DST#: 1

ATTN: Robert Hendrix

Test Start: 2012.10.24 @ 19:22:30

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	10%Gas/5%Oil/85%Mud	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8354

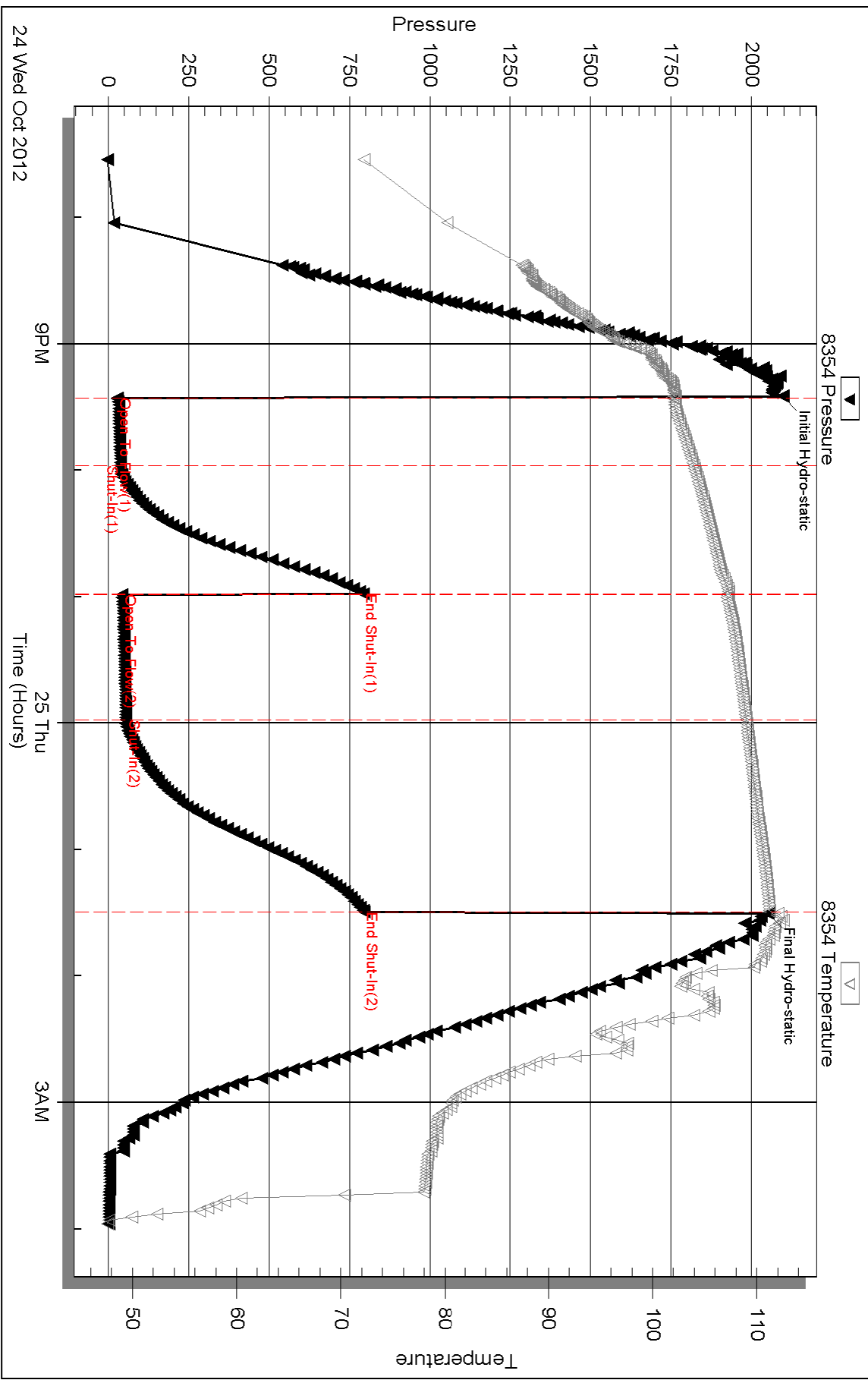
Inside

Cobalt Energy, LLC.

Miner Unit "A" #1-27

DST Test Number: 1

Pressure vs. Time

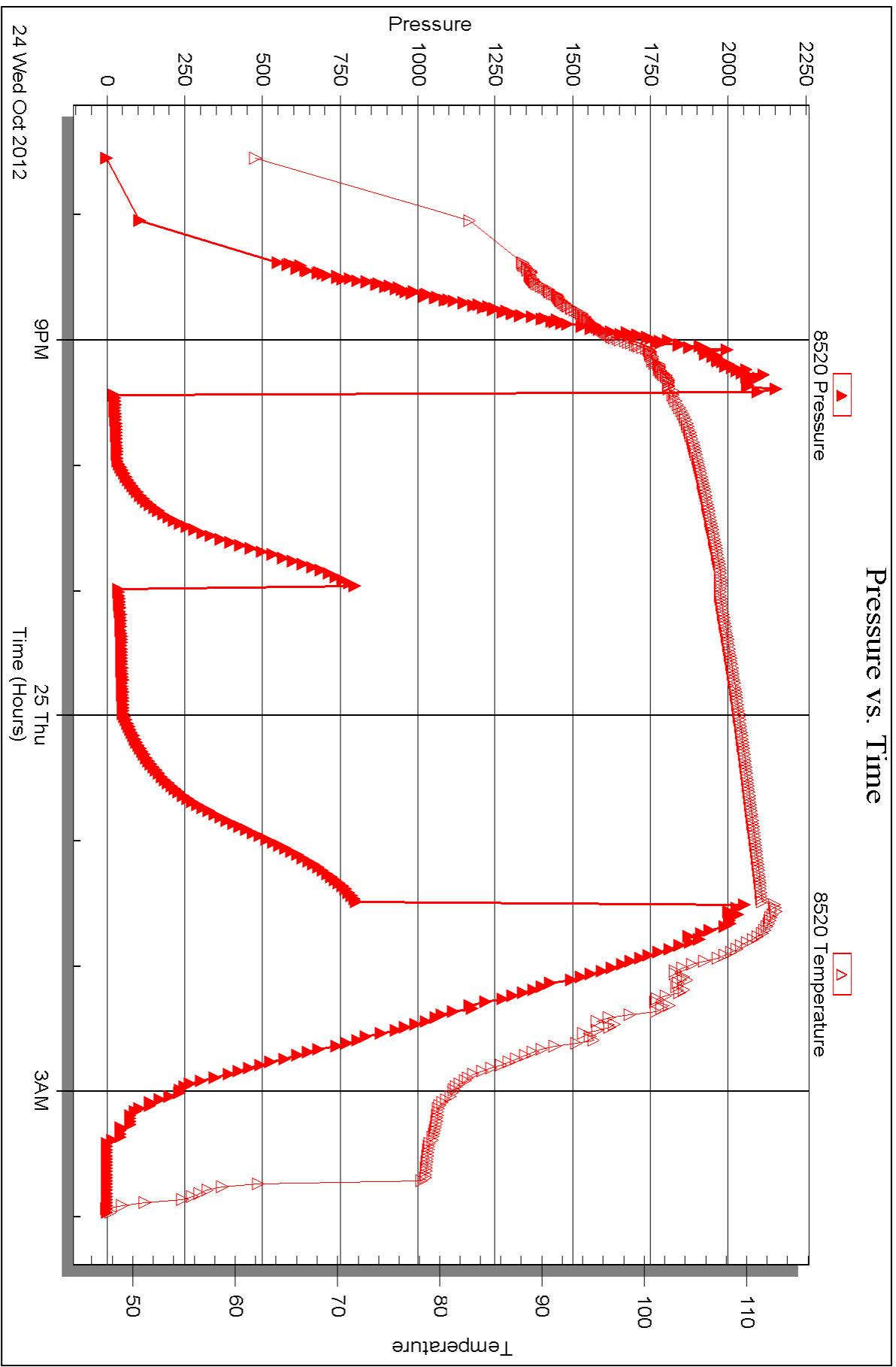


Serial #: 8520

Outside Cobalt Energy, LLC.

Miner Unit "A" #1-27

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC.**

PO Box 8037
Wichita, KS 67208

ATTN: Robert Hendrix

Miner Unit "A" #1-27

27-18s-24w Ness,KS

Start Date: 2012.10.25 @ 17:10:30

End Date: 2012.10.26 @ 03:02:30

Job Ticket #: 47950 DST #: 2

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

Printed: 2012.10.31 @ 13:23:15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC.

27-18s-24w Ness, KS

PO Box 8037
Wichita, KS 67208

Miner Unit "A" #1-27

ATTN: Robert Hendrix

Job Ticket: 47950

DST#: 2

Test Start: 2012.10.25 @ 17:10:30

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:09:00

Time Test Ended: 03:02:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 4298.00 ft (KB) To 4323.00 ft (KB) (TVD)

Reference Elevations: 2289.00 ft (KB)

Total Depth: 4323.00 ft (KB) (TVD)

2284.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 717.69 psig @ 4300.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.25

End Date:

2012.10.26

Last Calib.:

2012.10.26

Start Time: 17:20:30

End Time:

03:02:30

Time On Btm:

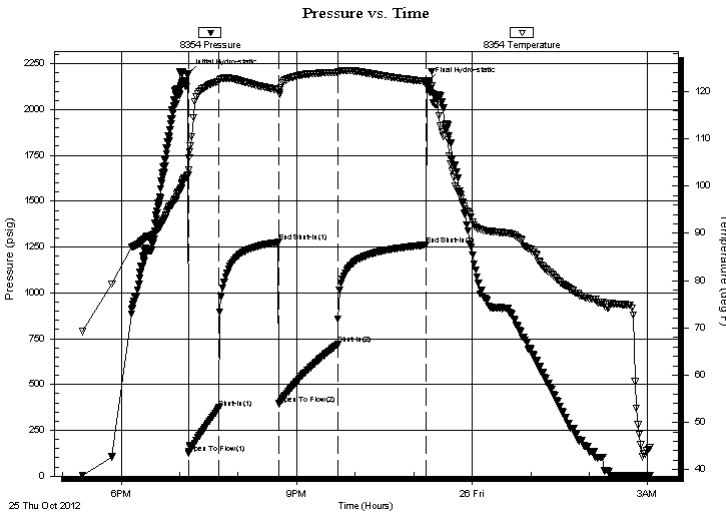
2012.10.25 @ 19:08:40

Time Off Btm:

2012.10.25 @ 23:14:30

TEST COMMENT: IF-Strong building blow . BOB in 2 minutes 30 seconds.
ISI-Return @ 30 seconds. Built to 3 inches.
FF-Strong building blow . BOB in 3 minutes.
FSI-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.73	102.31	Initial Hydro-static
1	126.16	102.35	Open To Flow (1)
32	373.34	122.19	Shut-In(1)
93	1275.69	120.31	End Shut-In(1)
94	394.49	119.65	Open To Flow (2)
154	717.69	124.09	Shut-In(2)
245	1261.82	122.16	End Shut-In(2)
246	2150.13	121.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	20%Gas/60%Oil/20%Mud	0.61
1829.00	50%Gas/50%Oil	25.09

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC.

27-18s-24w Ness, KS

PO Box 8037
Wichita, KS 67208

Miner Unit "A" #1-27

Job Ticket: 47950 **DST#: 2**

ATTN: Robert Hendrix

Test Start: 2012.10.25 @ 17:10:30

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:09:00

Time Test Ended: 03:02:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 4298.00 ft (KB) To 4323.00 ft (KB) (TVD)

Reference Elevations: 2289.00 ft (KB)

Total Depth: 4323.00 ft (KB) (TVD)

2284.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8520 Outside

Press @ RunDepth: psig @ 4300.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.25 End Date: 2012.10.26

Last Calib.: 2012.10.26

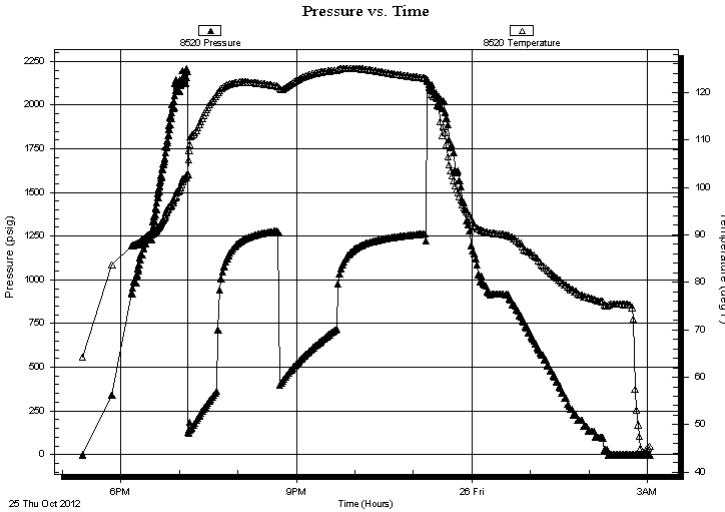
Start Time: 17:20:45 End Time: 03:02:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Strong building blow . BOB in 2 minutes 30 seconds.
ISI-Return @ 30 seconds. Built to 3 inches.
FF-Strong building blow . BOB in 3 minutes.
FSI-No Return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	20%Gas/60%Oil/20%Mud	0.61
1829.00	50%Gas/50%Oil	25.09

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy, LLC.

27-18s-24w Ness, KS

PO Box 8037
Wichita, KS 67208

Miner Unit "A" #1-27

Job Ticket: 47950

DST#: 2

ATTN: Robert Hendrix

Test Start: 2012.10.25 @ 17:10:30

Tool Information

Drill Pipe:	Length: 4102.00 ft	Diameter: 3.80 inches	Volume: 57.54 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 58.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4298.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4271.00	
Shut In Tool	5.00			4276.00	
Hydraulic tool	5.00			4281.00	
Jars	5.00			4286.00	
Safety Joint	3.00			4289.00	
Packer	5.00			4294.00	28.00 Bottom Of Top Packer
Packer	4.00			4298.00	
Stubb	1.00			4299.00	
Perforations	1.00			4300.00	
Recorder	0.00	8354	Inside	4300.00	
Recorder	0.00	8520	Outside	4300.00	
Perforations	20.00			4320.00	
Bullnose	3.00			4323.00	25.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC.

27-18s-24w Ness, KS

PO Box 8037
Wichita, KS 67208

Miner Unit "A" #1-27

Job Ticket: 47950

DST#: 2

ATTN: Robert Hendrix

Test Start: 2012.10.25 @ 17:10:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	20%Gas/60%Oil/20%Mud	0.610
1829.00	50%Gas/50%Oil	25.091

Total Length: 1953.00 ft

Total Volume: 25.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8354

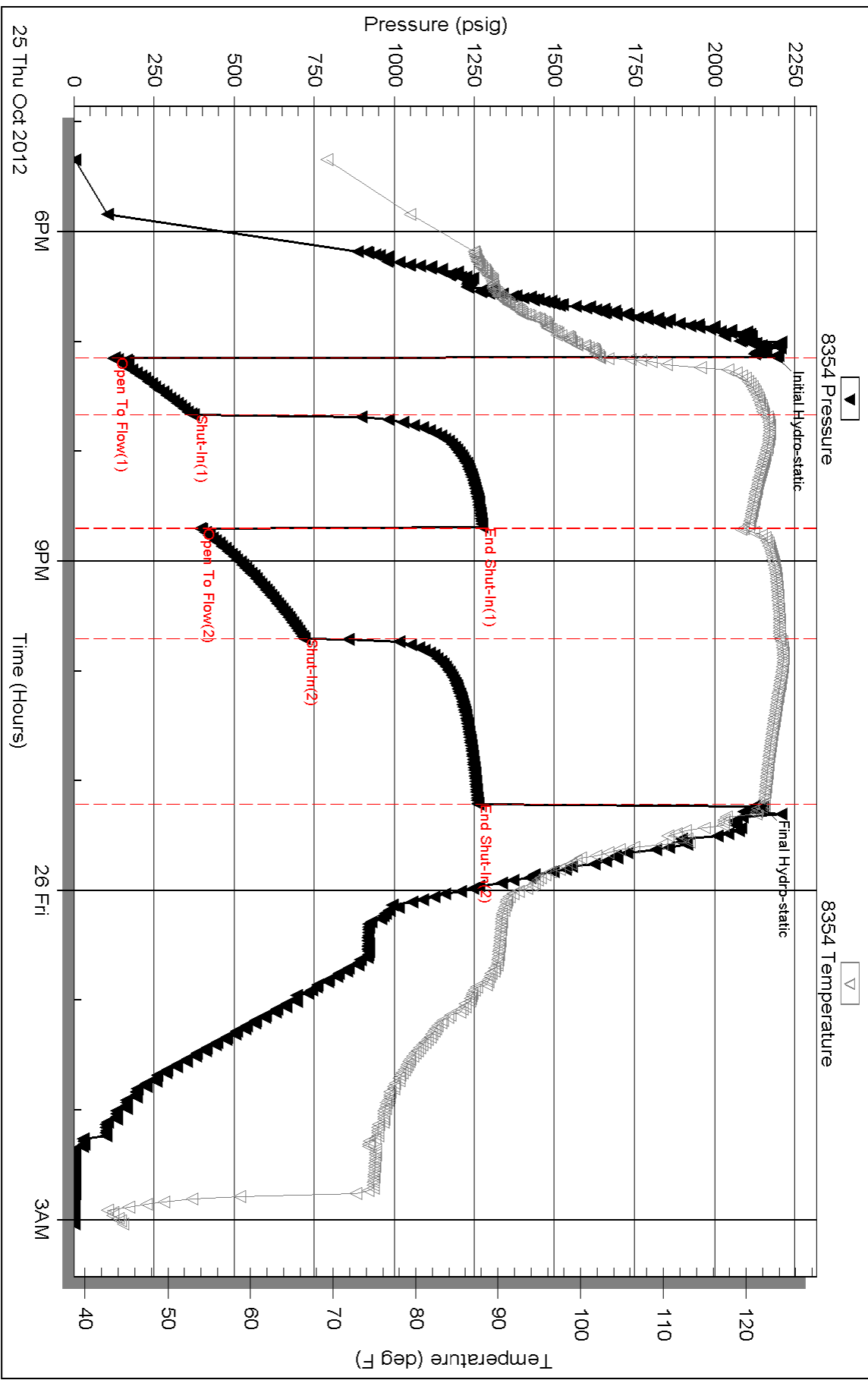
Inside

Cobalt Energy, LLC.

Miner Unit "A" #1-27

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47950

Printed: 2012.10.31 @ 13:23:19

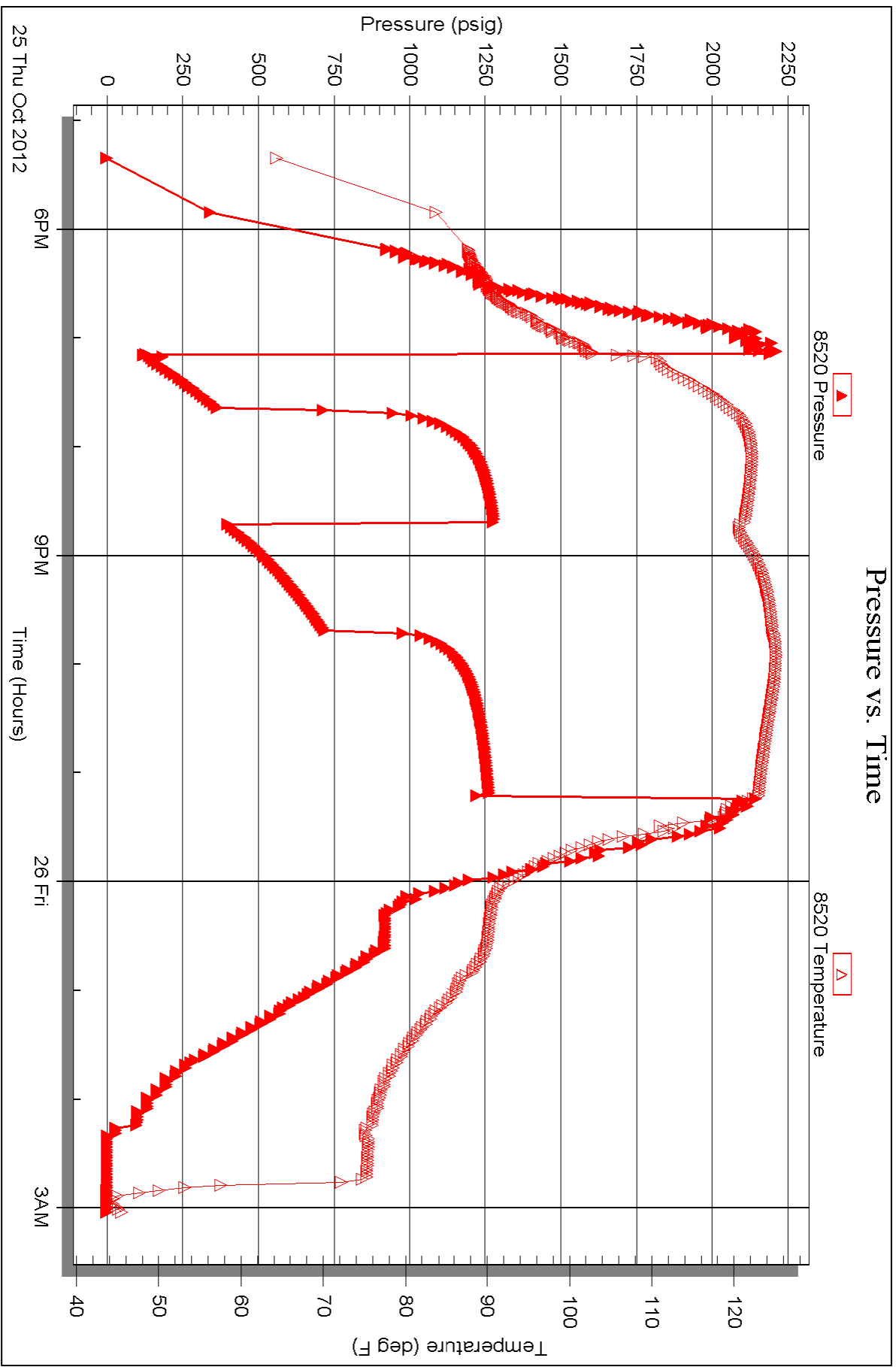
Serial #: 8520

Outside

Cobalt Energy, LLC.

Miner Unit "A" #1-27

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47949

Well Name & No. Miner Unit "A" #1-27 Test No. 1 Date 10-24-12
 Company Cobalt Energy LLC Elevation 2289 KB 2284 GL
 Address P.O. Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Robert Hendrix Rig Mullin 8
 Location: Sec. 27 Twp. 18S Rge. 24W Co. Ness State KS

Interval Tested 4183-4226 Zone Tested Fr. Scott
 Anchor Length 43' Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 4178 Drill Collars Run 186 Vis 50
 Bottom Packer Depth 4183 Wt. Pipe Run 0 WL 7.6
 Total Depth 4226 Chlorides 3700 ppm System LCM 3#
 Blow Description IF - Very weak building blow. Built to 3 inches
ISI - No Return
FF - Very weak building blow. Built to 7 inches.
FST - No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>VSGOCM</u>	<u>10</u>	<u>5</u>	<u>85</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 60 BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic Test 1250 T-On Location 1715
 (B) First Initial Flow Jars 250 T-Started 1930
 (C) First Final Flow Safety Joint 75 T-Open 2125
 (D) Initial Shut-In Circ Sub _____ T-Pulled 0130
 (E) Second Initial Flow Hourly Standby _____ T-Out 0400
 (F) Second Final Flow Mileage 66X2 204.60 Comments Best 1922
 (G) Final Shut-In Sampler _____
 (H) Final Hydrostatic Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

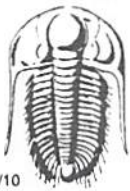
Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Sub Total 1779.60

MP/DST Disc't _____

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47950

Well Name & No. Miner Unit "A" #127 Test No. 2 Date 10-25-12
 Company Cobalt Energy, LLC Elevation 2289 KB 2284 GL
 Address P.O. Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Robert Hendrix Rig Mullin 8
 Location: Sec. 27 Twp. 18S Rge. 24W Co. Ness State KS

Interval Tested 4298-4323 Zone Tested Mississippian
 Anchor Length 25' Drill Pipe Run 4102 Mud Wt. 9.3
 Top Packer Depth 4293 Drill Collars Run 186.09 Vis 48
 Bottom Packer Depth 4298 Wt. Pipe Run ⊖ WL 9.6
 Total Depth 4323 Chlorides 3800 ppm System LCM 2#

Blow Description IF - Strong building blow, BOB in 2 minutes 30 seconds,
IF - Return @ 30 seconds, Built to 3 miles,
FF - Strong building blow, BOB in 3 minutes,
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1827</u>	<u>Gassy oil</u>	<u>50</u>	<u>50</u>		
<u>124</u>	<u>Gassy MCO</u>	<u>20</u>	<u>60</u>		<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1953 BHT 124 Gravity 40 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2196 Test 1250 T-On Location 1545
 (B) First Initial Flow 126 Jars 250 T-Started 1715
 (C) First Final Flow 373 Safety Joint 75 T-Open 1909
 (D) Initial Shut-In 1276 Circ Sub T-Pulled 2315
 (E) Second Initial Flow 394 Hourly Standby T-Out 0300
 (F) Second Final Flow 718 Mileage 66 X 2 204.60 Comments BHT-1710
 (G) Final Shut-In 1262 Sampler
 (H) Final Hydrostatic 2150 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1779.60
 Accessibility MP/DST Disc't

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

Approved By _____ Our Representative [Signature]
 Sub Total 1779.60

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.

Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Cobalt Energy LLC**

LEASE **Miner Unit A #1-27**

FIELD **McDonald NE**

LOCATION **2428 fsl & 1756' fel**

SEC **27 TWP 18 S RGE 24 W**

COUNTY **Ness STATE Kansas**

CONTRACTOR **Murfin Drilling Co Inc Bldg 8**

SPUD **10/19/2012 COMP 10/26/2012**

RTD **4:36:55 LID 4:36:66**

MUD UP **5:38:00 TYPE MUD Chemical**

SAMPLES SA/WF FROM **3350 TO TD**

DRILLING TIME KEPT FROM **3300 TO TD**

SAMPLES EXAMINED FROM **3350 TO TD**

GEOLOGICAL SUPERVISION FROM **3367**

GEOLOGIST ON WELL **Robert D. Hendrix**

FORMATION TOPS

ELECTRIC LOG

FORMATIONS

Base Anhydrite **1594 (+790)**

Anhydrite **1594 (+790)**

Topoka **3366 (+1077)**

Heebner Shale **3665 (-1376)**

Lansing **3710 (+1421)**

BKC **4003 (-1714)**

Pawnee **4125 (-1836)**

Ft Scott **4203 (-1914)**

Mississippian **4299 (-2010)**

RTD **4365 (-2076)**

ELEVATIONS

KB **2289**

DF

GL **2284'**

Measurements Are All From **Kelly Bushing**

CASING

CONDUCTOR SURFACE **8:56' at 218'**

PRODUCTION **5.12'**

ELECTRICAL SURVEYS

Production

Induction/Neutron Density

Ploneer Energy

API# 15-135-25492

9

REMARKS:

The samples contained an abundant amount of shale from the Lansing to the Pawnee making lithology identification very difficult. A favorable test in the Mississippian and relative high sub-sea position it is strongly recommended that production casing be ran on this well for production.

