



KANSAS CORPORATION COMMISSION 1075889  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34579  
Name: Cobalt Energy LLC  
Address 1: 115 S. BELMONT #12  
Address 2: PO BOX 8037  
City: WICHITA State: KS Zip: 67208 +  
Contact Person: Nicholas D. Hess  
Phone: ( 316 ) 201-4101  
CONTRACTOR: License # 33350  
Name: Southwind Drilling, Inc.  
Wellsite Geologist: Tim Lauer  
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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

<u>01/27/2012</u>	<u>02/04/2012</u>	<u>02/05/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-26258-00-00

Spot Description: \_\_\_\_\_  
W2 NE SE SE Sec. 11 Twp. 12 S. R. 19  East  West  
990 Feet from  North /  South Line of Section  
335 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Ellis  
Lease Name: Joy Estate 'A' Well #: 1-11  
Field Name: \_\_\_\_\_

Producing Formation: na

Elevation: Ground: 2137 Kelly Bushing: 2142

Total Depth: 3818 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 244 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: 6800 ppm Fluid volume: 240 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: Jolen Operating Company

Lease Name: Herrold License #: 31822

Quarter NW Sec. 25 Twp. 10 S. R. 21  East  West

County: Graham Permit #: 1037336231

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

- Letter of Confidentiality Received  
Date: 08/06/2012
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: Deanna Garbo Date: 08/13/2012



1075889

Operator Name: Cobalt Energy LLC Lease Name: Joy Estate 'A' Well #: 1-11  
 Sec. 11 Twp. 12 S. R. 19  East  West County: Ellis

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:  Radiation Guard	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" 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
Surface	12.25	8.625	23	244	common	150	3%CC,2%gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
— Perforate				
— Protect Casing	-			
— Plug Back TD				
— Plug Off Zone	-			

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls.      Gas Mcf      Water Bbls.      Gas-Oil Ratio      Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	Joy Estate 'A' 1-11
Doc ID	1075889

Tops

Anhydrite	1484	+658
Base Anhydrite	1525	+617
topeka	3173	-1031
Heebner	3407	-1265
Toronto	3424	-1282
Lansing	3449	-1307
Stark	3638	-1496
BKC	3683	-1541
Congl.	3748	-1606
Reworked Arb.	3794	-1652

# ALLIED CEMENTING CO., LLC. 036170

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT  
Oakley, KS

DATE <u>1-27-12</u>	SEC. <u>11</u>	TWP. <u>12</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION <u>8:10 am</u>	JOB START <u>10:00 am</u>	JOB FINISH <u>12:30 pm</u>
LEASE <u>Jay Estate</u>	WELL # <u>L-11</u>	LOCATION <u>Yocumville, KS 5492/1/2</u>			COUNTY <u>21113</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u> <u>Buckeye Rd, 2 E, 1/2 N, Wm's</u>							

CONTRACTOR Southwind #1  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4" T.D. 246'  
 CASINO SIZE 8 7/8" DEPTH 244'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSO. 15'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 14.82661

OWNER Samie  
 CEMENT AMOUNT ORDERED 150SK com 8% cc  
2 1/2 gal

COMMON	<u>150SK</u>	@ <u>16.25</u>	<u>2437.50</u>
POZMIX		@	
OEL	<u>3 SK</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>5 SK</u>	@ <u>58.20</u>	<u>291.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>150SK</u>	@ <u>2.25</u>	<u>335.30</u>
MILBAGB	<u>114 SK/mile</u>		<u>173.82</u>
TOTAL			<u>3316.37</u>

EQUIPMENT

PUMP TRUCK CEMENTER Lakane  
 # 431 HELPER Darrian  
 BULK TRUCK DRIVER Brandon  
 # 347  
 BULK TRUCK DRIVER \_\_\_\_\_  
 # \_\_\_\_\_

REMARKS:

Mix 150SK down casing  
Displace with water  
run and die circulate

Thank you

CHARGE TO: Cobalt Energy LLC  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB	<u>244'</u>		
PUMP TRUCK CHAROB			<u>1125.00</u>
EXTRA FOOTAGE		@	
MILBAGB	<u>10 ms</u>	@ <u>7.00</u>	<u>70.00</u>
MANIFOLD	<u>5 wedge</u>	@	
	<u>L.U. Milbagge</u>	@ <u>9.00</u>	<u>45.00</u>
TOTAL			<u>1235.00</u>

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
TOTAL			

To Allied Cementing Co., 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 Derby Keever  
 SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

Bid

# ALLIED OIL & GAS SERVICES, LLC 056955

RENT TO: P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
RUSSELL

DATE <u>2-5-12</u>	SEC <u>11</u>	TWP. <u>S 12</u>	RANGE <u>19W</u>	CALLED OUT	ON LOCATION	JOB START <u>11 AM</u>	JOB FINISH <u>12 PM</u>
JOY ESTATE LEASE	WELL # <u>A #1-11</u>		LOCATION <u>HAYS N TO Buckeye Rd - 4W</u>		COUNTY <u>ELLIS</u>	STATE <u>KS</u>	
OLD OR (NEW) (Circle one)			<u>N 1/4 - W INTO</u>				

CONTRACTOR <u>Southwind #1</u>	OWNER
TYPE OF JOB <u>PTA</u>	CEMENT
HOLE SIZE <u>7 7/8</u> T.D. <u>3780</u>	AMOUNT ORDERED <u>245 SK GEL 40 49 GAL</u>
CASING SIZE <u>8 3/8</u> DEPTH <u>244</u>	<u>1/4" FLO-SEAL PUMP SK</u>
TUBING SIZE DEPTH	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>147 @ 16.25 2388.75</u>
MEAS. LINE SHOE JOINT	POZMIX <u>103 @ 8.50 875.5</u>
CEMENT LEFT IN CSG.	GEL <u>9 @ 21.25 191.25</u>
PERFS.	CHLORIDE @
DISPLACEMENT	ASC @
	<u>FLO-SEAL 61 @ 2.70 164.7</u>

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Bob Smith</u>
# <u>409</u>	HELPER <u>Todd</u>
BULK TRUCK	
# <u>378</u>	DRIVER <u>RON</u>
BULK TRUCK	
#	DRIVER

HANDLING <u>262</u>	@ <u>2.25</u>	<u>589.5</u>
MILEAGE <u>38 X 26.2 X .11</u>		<u>1095.16</u>
		TOTAL <u>5204.86</u>

REMARKS:

- P1 - 3780' - 25 SK
- P2 - 1520' - 25 SK
- P3 - 780' - 100 SK
- P4 - 294' - 40 SK
- P5 - 40' - 10 SK
- RAT - 30 SK
- MOUSE - 15 SK

SERVICE

DEPTH OF JOB <u>3780</u>		
PUMP TRUCK CHARGE		<u>1250.00</u>
EXTRA FOOTAGE @		
MILEAGE <u>H 38</u>	@ <u>7.00</u>	<u>266.00</u>
MANIFOLD @		
<u>LOV M. 38</u>	@ <u>4.00</u>	<u>152.00</u>

CHARGE TO: COBALT ENERGY

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 1668.00

PLUG & FLOAT EQUIPMENT

<u>8 3/8 wooden plugs</u>	@	<u>64.00</u>
	@	
	@	
	@	

TOTAL 64.00

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.

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 7036.86

DISCOUNT 20/50 IF PAID IN 30 DAYS

PRINTED NAME Frank Rome

SIGNATURE Frank Rome

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

Sam Brownback, Governor

August 10, 2012

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

Re: ACO-1  
API 15-051-26258-00-00  
Joy Estate 'A' 1-11  
SE/4 Sec.11-12S-19W  
Ellis County, Kansas

Dear Nicholas D. Hess:

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

The above referenced well was spudded on 01/27/2012 and the ACO-1 was received on August 06, 2012 (not within the 120 days timely requirement).

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

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

Sincerely,

Production Department

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  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 12, 2012

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

Re: ACO1  
API 15-051-26258-00-00  
Joy Estate 'A' 1-11  
SE/4 Sec.11-12S-19W  
Ellis County, Kansas

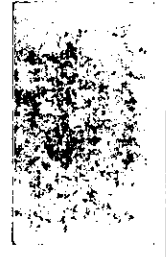
Dear Production Department:

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

COMPANY & WELL Cobalt Energy, LLC #1-11 Joy Est.  
 LOCATION 990' FSL, 335' FEL, SE/4  
 SEC 11 TWSP 12s RGE 19w  
 COUNTY Ellis STATE Kansas



# Tim J. Lauer

## Petroleum Geologist

Office 316.332.0530  
 Cell 316.263.1276

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

COMPANY Cobalt Energy, LLC  
 LEASE #1-11 Joy Estate  
 FIELD \_\_\_\_\_  
 LOCATION 990' FSL, 335' FEL, SE/4  
 SEC 11 TWSP 12s RGE 19w  
 COUNTY Ellis STATE Kansas

### ELEVATIONS

KB 2142'  
 DF \_\_\_\_\_  
 GL 2132'

Measurements Are All From Kelly Bushing

CONTRACTOR Southwind Drilling Rig #1  
 SPUD 1-27-2012 COMP 2-5-2012  
 RTD 3820' LTD 3818'  
 MUD UP 3000' TYPE MUD Chemical

### CASING

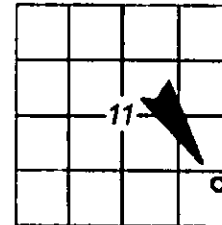
CONDUCTOR \_\_\_\_\_  
 SURFACE 8-5/8" @ 244'  
 PRODUCTION none

SAMPLES SAVED FROM 2900' TO RTD  
 DRILLING TIME KEPT FROM 2900' TO RTD  
 SAMPLES EXAMINED FROM 3100' TO RTD  
 GEOLOGICAL SUPERVISION FROM 3120' TO RTD  
 GEOLOGIST ON WELL Tim J. Lauer

### ELECTRICAL SURVEYS

Pioneer-LogTech: RAG  
(Engr. Dayton Kerr)

FORMATION TOPS	ELECTRIC LOG	SAMPLE LOG
Anhydrite	1484 (+658)	1491 (+651)
Topeka	3173 (-1031)	3173 (-1031)
Queen Hill	3336 (-1194)	3337 (-1195)
Heebner	3407 (-1265)	3408 (-1266)
Toronto	3424 (-1282)	3425 (-1283)
Lansing	3449 (-1307)	3450 (-1308)
Base Ks. City	3683 (-1541)	3684 (-1542)
Conglomerate	3748 (-1606)	3748 (-1606)
Ero. Arbuckle	3794 (-1652)	3796 (-1674)
Total Depth	3818 (-1676)	3820 (-1678)



API: 15-051-26258

### REMARKS

*Due to drill stem test results, and log evaluation, operator elected to plug and abandon the location.*

*Respectfully submitted,*

*[Signature]*  
 Tim J. Lauer  
 2/5/2012

### LEGEND

Anhydrite	Sandstone	Limestone	Shale	Coar Sh	Cherty LS	Chert	Dolomite

LITHOLOGY	DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases	DEPTH SHOWS	SAMPLE DESCRIPTION	REMARKS
		3100	Ls. crm-gry, some gry-brn, med IP, micro-fract. foss, 1/10 may be dolo. calc fr DLN par. NS no car n ch. n odor	SPUD 5:00 PM 1-27-2012 RTD 5:35 PM 2-4-2012

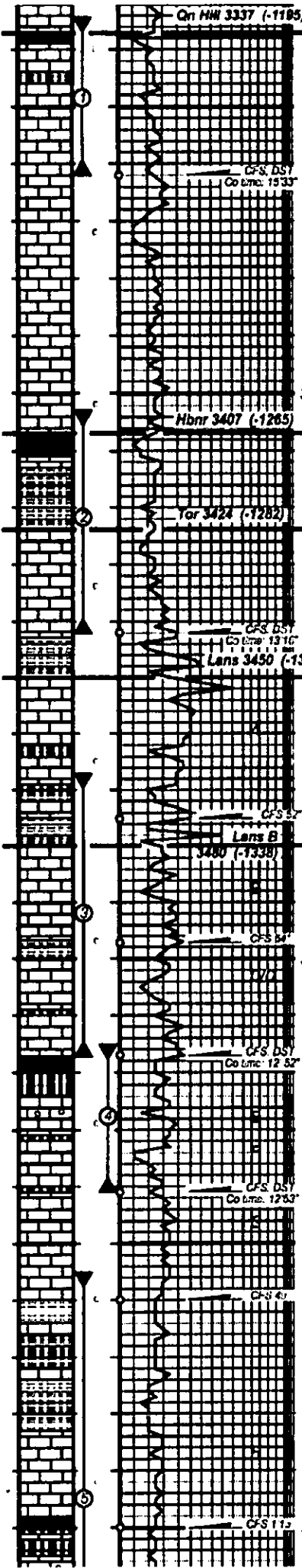


LITHOLOGY	RILL STEM TESTS	MINUTES PER FOOT Rate of Penetration Decreases ▲	SHOWS	DEPTH	SAMPLE DESCRIPTION	REMARKS
		5 10 15		3100	Ls: crm-gry, some gry-brn, med IP, micro-fract, foss, 1/10 mly bd, dns., sca fr IXLN par., NS, no far., n. str, n. odor	SPUD 5:00 PM 1-27-2012 RTD 5:35 PM 2-4-2012
					Sh: med-drk gry, med IP, clay, gritty bd.	"BIT RECORD" 1.) Recd S52 (Now) Under Surface to 3320' RTD
					Sh: med-drk gry, AA, occ gm-gry.	"VERTICAL SURVEYS" 1/2' @ 248' 1' @ 3362' 1 1/2' @ 3320'
						1-27-2012 - MIRT, RURT Prep to set Surf Csg.
				50	Ls: dk gry-brn, med, med. micro-mach, foss, (fuc'n) occ gran-rgh bd, dns., pr. via par., NS, some crm-tan, micro-fract, scal fr IXLN par, NS, no far., n. str, n. odor	1-28-2012 - 7:00 AM Drig @ 259' set 8-3/8" @ 289'
					Sh: med-drk gry, AA.	1-28-2012 - 7:00 AM Drig @ 2040'
				50	Ls: mostly bl-gry, some med drk gry, micro-fract, dns., pr vis par, NS, scal pcc. fract, w/mly bd, pr IXLN par, NS, no far., n. str, n. odor	1-30-2012 - 7:00 AM Drig @ 2880'
					Ls: md-dk gry, crypto-fract, med dns, chrp IP, pr. par., NS, occ drk fr-fract, bl. foss, dns, NS, n. far, n. str, no odor.	1-31-2012 - 7:00 AM PTD @ 3362' Running DST (1)
				3200	Ls: med crm-bl-gry, vln-fract, coars, 1/3 mealy bd, scal fr occ gd IXLN par, NS, n. far, n. str, no od.	2-1-2012 - 7:00 AM Drig @ 3445'
					Ls: crm-gry-tan, micro-fract, beam dns, med pr par., NS, occ brn, fr-mach, a. foss, dns, NS, n. far, n. str, no odor.	2-2-2012 - 7:00 AM PTD @ 3541' COOH to start DST (4)
					Sh: med-drk gry, blk., gritty.	2-3-2012 - 7:00 AM PTD @ 3635' Running DST (5)
					Ls: iner bl-gry, scal dk gry, med IP, micro-fract, crk'd-mly bd, scal fr IXLN par., NS, n. far, n. str, n. odor.	2-4-2012 - 7:00 AM PTD @ 3687' COOH with DST (6)
					Ls: iner bl-tan, s. med brn, beam fr-mach, mly-rgh bd., scal pcc scatter, occ fr IXLN par, NS, n. far, n. str, n. od.	2-5-2012 - 7:00 AM RTD @ 3820'
					Ls: crm-bl-gry, some med drk gry, vln-fract, 1/4 mly text, a. foss., pr-occ fr IXLN par, NS, n. str, n. odor.	Ran Pioneer OH RAG Log Plug and Abd. Location
					Ls: inc. gry-dk gry, med., vln-mach, med dns, NS, scal mealy bd, pr IXLN par., NS, n. far, n. str, n. odor	Geologist on location 3120'
					Ls: crm-tan-bl-gry, fr-mdgradn, coars, 1/3 mly-gran bd, fr-gd IXLN & IG par., NSFO, NSG, n. far, n. liva str, scal gilson flakes, (n. cut), n. detect odor	
					Ls: AA, coar, mly-gran bd, 1/2 fr-gd IXLN & IG par., NSFO, NSG, n. far, scal gilson str, n. cut, n. odor	
					Sh: med-drk gry, vln fr, blk. carb.	Prod Check at 3362' (After displacement and initial mud-up) vis: 64 wt 8.8 Chlor: 3.700 LCM: 20 Ph: 11.0 WL: 6.8 (Catch displacement @ 3320')
					Sh: med-drk gry, clay, vln, gritty, some dk gry ls: med vln-fract, dns, pr par NS	
				3300	Ls: gry-dk gry-tan, micro-fract, med dns., foss (fuc'n) scal fract, w/mealy text, coars, s. cherty IP, pr-fr IXLN par, NSFO, NSG, n. far, n. str, n. cut, n. det od	20' Stand Short No at 3320' partial right cut 7' above left bottom
					Ls: crm-whit-bl, micro-fract, med dns, some scal fract, scal mealy text, OA pr vis par, NS, n. far, n. str, n. odor.	
					Ls: AA, med dns, scal cherty wt clay, fr IXLN par NS scal chrt, crm-whit, chrp, fract, pr par, NS, n. far, scal chrt med far, n. cut, n. str, n. odor	Run Strips on DST (1) Board: 3371.85' Strip: 3371.44' Dip: 0.41 chert
					Ls: crm-gry, med gry-brn, micro-mach, dns, pr par., NS, n. odor	DST (1) 3334'-3362' 30-60-60-90 Elev: 3334' to 3362' elev 10' to 10' (3334' to 3362') width: 6" to 6" on FFP width: 6" to 6" on FFP
					Sh: med-drk gry, scal blk, vln gm-gry	65' MW (5' from 0' to 10', med 60' to 70')
					Ls: crm-gry, med drk gry, micro-fract, dns, scal mealy bd, a. foss, dns, pr par, NS, n. far., n. str, n. odor	120' MW (5' from 0' to 10', med 60' to 70')
					Sh: med-drk gry, blk. carb, vln gm-gry.	185' Tot. Fluid
				50	Ls: gry-dk gry, med. micro-fract, dns, scal mealy bd, pr IXLN par, NS, n. far, n. str, n. odor	IHP 1599 FFP 51-107 JED LA 449 SCID 1460
					(3346-52) Ls: crm-gry-dk gry, med fract, (clay) fr-occ fr IXLN par, NSFO, NSG, n. far, n. str, n. odor	

Topk 3173 (-1031)

Lersh-Brk 3278 (-1136)

On Hill 3337 (-1195)



Sh. med-drk gry. blk carb. vol gm-gr.

Ls. gry-drk gry, most micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor.

(3345-52) Ls. med-drk gry, med blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor) var. vug & por par. NS-SFO (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor) (3352-68) Ls. med-drk gry, some gry-brn, med. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor. some white chalk. fr-DLN por, NS.

Ls. bf, some tan, micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor. some white chalk, soft, fr-DLN por, NS, low pos AA w/ fassa mealy and vug par. SFO (stough), intrvl exhibits no odor.

Ls. 2/3 am-bf, micro-fract. dms, seal mealy bd., pr-DLN por, soft IP, NSFO, NSG, n. flor, n. cin, n. odor. 1/3 med-gry, micro-fract. dms, comp, crinkled-occ mealy bd., pr-DLN por, NS, occ chalk, wht, soft, NS, intrvl exhibits no odor.

Ls. am-bf, some gry, AA, dms, seal mealy bd., coal pr-DLN por, NS, n. flor, n. cin, seal g'con?, n. cut, n. odor.

Hbnt 3407 (-1265)

Sh. med-drk gry, blk carb. NSGB

Ls. drk gry, micro-fract. dms pr por, NS, n. vis cin, n. odor.

Tar 3424 (-1282)

Sh. med-drk. AA.

(3424-23) Ls. am-bf, some gry, med blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor) (3429-43) Ls. am-whl, some gry-brn, med. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor. some white chalk, soft, fr-DLN por, NS, n. flor, n. cin, n. odor. some white chalk, soft, fr-DLN por, NS, n. flor, n. cin, n. odor.

CFS DST Co time: 13:10

Lans 3450 (-1308)

(3450-62) Ls. am-gry, some buff, mostly micro-fract. dms, seal mealy bd., pr-DLN por, NSFO, NSG, n. flor, n. vis cin, n. odor.

Sh. med-drk. gry, vol gm, red-brn

(3484-63) Ls. med am, some buff, micro-fract. dms, seal mealy bd., most dms, pr vug par. NS, n. flor, n. cin, n. odor.

Sh. med-drk. gry, vol gm, rd.

(3472-78) Ls. med blk gry, med drk gry, focs IP, micro-fract. dms, seal mealy bd., pr-DLN por, NSFO, n. flor, n. cin, n. odor.

(3494-97) Ls. am-bf, some gry, med blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor) (3499-107) Ls. am-bf, some gry, med blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor) (3500-07) Ls. am-bf, some gry, med blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor) (3507-17) Ls. am-whl, some buff, micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor. some white chalk, soft, fr-DLN por, NS, n. flor, n. cin, n. odor. some white chalk, soft, fr-DLN por, NS, n. flor, n. cin, n. odor.

(3524-31) Ls. am-bf, some gry, med blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor) (3532-32) Ls. am-bf, some gry, med blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor) (3538-40) Ls. am-bf, AA, med micro-fract. dms, seal mealy bd., pr-DLN por, NSFO, n. flor, n. cin, n. odor.

(3540-46) Ls. am-bf, some gry, med blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor) (3548-52) Ls. am-bf, some gry, med blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor) (3552-60) Ls. am-bf, some gry, med blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor) (3560-74) Sh. med-drk. blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor) (3560-74) Sh. med-drk. blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor) (3560-74) Sh. med-drk. blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor)

Sh. med-drk., vol blk, carb, red, gm.

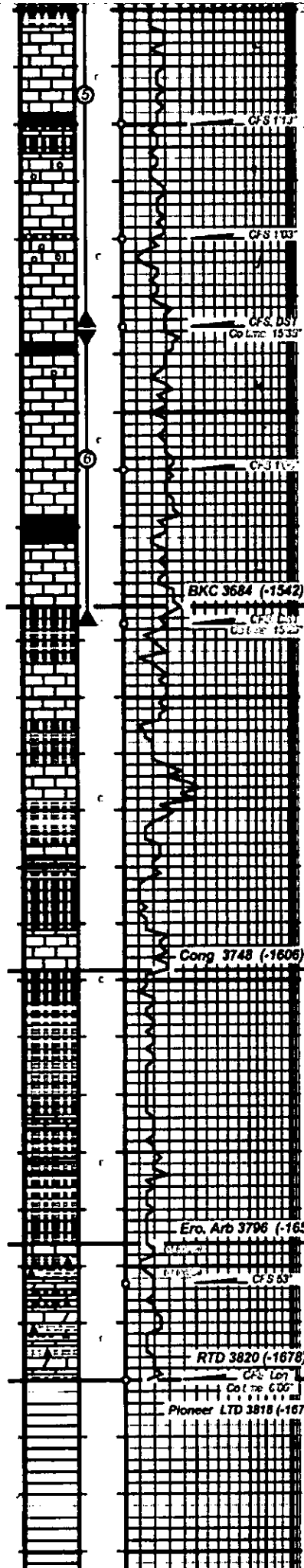
(3533-95) Ls. med am-bf, some gry, med blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor) (3533-95) Ls. med am-bf, some gry, med blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor) (3533-95) Ls. med am-bf, some gry, med blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor)

(3590-3600) Ls. bf am-gry, micro-occ fract. seal mealy bd., pr-DLN por, NS, seal ch. l. n. fresh, n. por, NS, am-bf, n. flor, n. cin, n. odor.

Sh. med-drk. gry, vol AA, seal blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor)

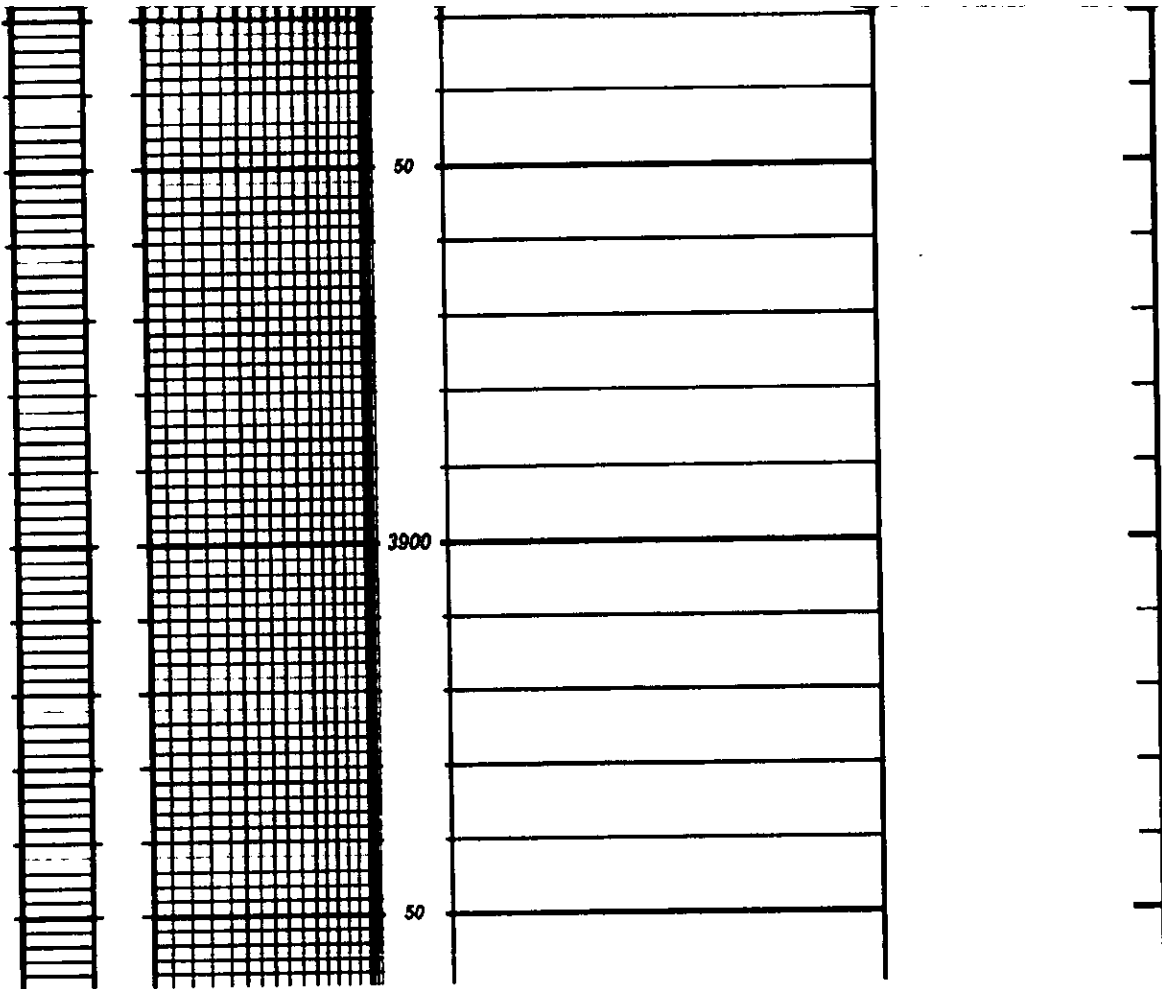
(3605-10) Ls. am-bf, some gry, med blk carb. (sh. micro-fract. dms, seal mealy bd., pr-DLN por, NS, n. flor, n. cin, n. odor)

<p>65' MW (157) gas, 65% oil, 10% water, 10% clay</p> <p>120' MW (157) gas, 65% oil, 10% water, 10% clay</p> <p>185' Tot. Fluid</p> <p>IHP: 1533 FFP: 61-107 IFP: 50-112 FSIP: 1033 ISIP: 1112 FHP: 1563</p> <p>Temp: 112 F</p> <p>Gravities: MUD 3.765 FPM DST 52.000 FPM</p> <p>Rv = 0.182 (Dens) 0.27 F Gravities: 0. NA</p> <p>Both Shells worked broken over</p>
<p>DST (2) 3403'-3442' 30-60-60-90</p> <p>Flow good, but to 7' on IFP no blowback on ISIP?</p> <p>Flow to 5' on IFP no blowback on FSP?</p> <p>120' G.I.P. 70' GO (157) gas, 65% oil, 10% water, 10% clay</p> <p>120' MW (157) gas, 65% oil, 10% water, 10% clay</p> <p>190' Tot. Fluid</p> <p>IHP: 1656 FFP: 47-84 IFP: 25-40 FSIP: 1155 ISIP: 1197 FHP: 1537</p> <p>Temp: 107 F</p> <p>Gravities: MUD 3.650 FPM DST 52.000 FPM</p> <p>Rv = 0.272 (Dens) 0.27 F Gravities: 0. 25</p> <p>Both Shells worked broken over</p>
<p>Mud Check at 3442: vs. 60 wt 9.1 Chlor. 3,500 LCM 2# Ph 10.5 WL: 8.0</p>
<p>DST (3) 3467'-3517' 30-60-60-90</p> <p>Flow good, but to 5' on IFP no blowback on ISIP?</p> <p>Flow to 60' on IFP no blowback on FSP?</p> <p>760' MW (157) gas, 65% oil, 10% water, 10% clay</p> <p>IHP: 1678 FFP: 196-397 IFP: 41-178 FSIP: 894 ISIP: 1027 FHP: 1683</p> <p>Temp: 111 F</p> <p>Gravities: MUD 3.500 FPM DST 112.000 FPM</p> <p>Rv = 0.183 (Dens) 0.27 F Gravities: 0. NA</p> <p>Both Shells worked broken over</p>
<p>Mud Check at 3541: vs. 49 wt 9.0 Chlor. 4,100 LCM 2# Ph 10.0 WL: 7.4</p>
<p>DST (4) 3516'-3541' 30-60-30-60</p> <p>Flow ok (114') during flow on IFP no blowback on ISIP?</p> <p>Flow on IFP no blowback on FSP?</p> <p>20' MW (157) gas, 65% oil, 10% water, 10% clay</p> <p>IHP: 1708 FFP: 20-31 IFP: 26-29 FSIP: 899 ISIP: 1005 FHP: 1649</p> <p>Temp: 106 F</p> <p>Gravities: MUD 4.100 FPM DST 20.000 FPM</p> <p>Rv = 0.356 (Dens) 0.27 F Gravities: 0. NA</p> <p>Both Shells worked broken over</p>
<p>Mud Check at 3635: vs. 45 wt 9.2 Chlor. 6,500 LCM 1# Ph 10.5 WL: 6.4</p>

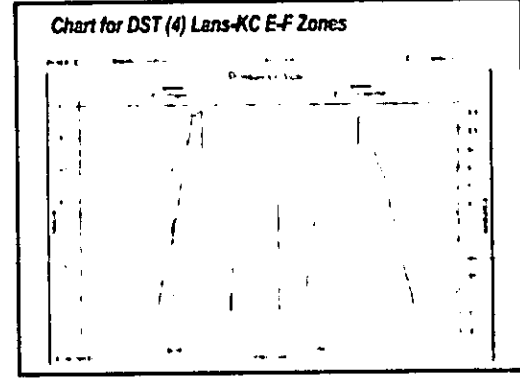
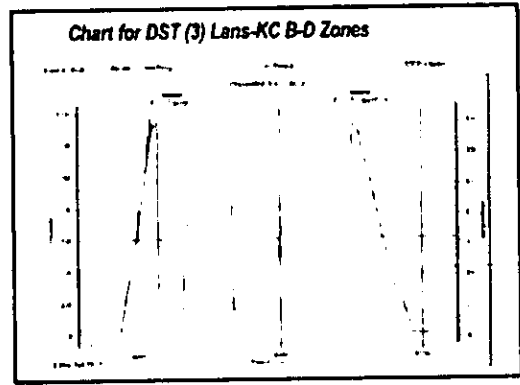
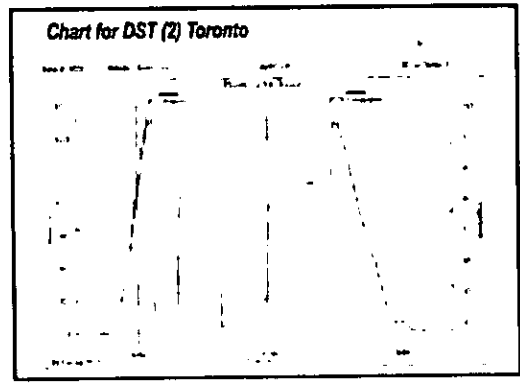
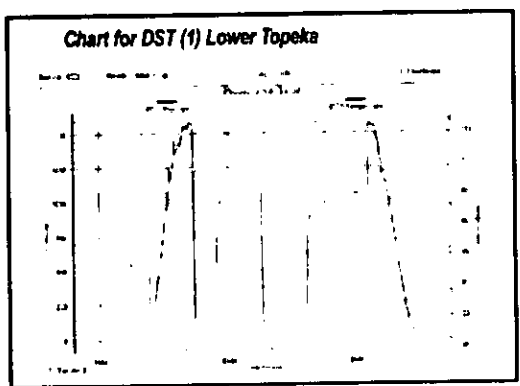


	<p>(3590-3600) Ls: bl-om-gry, micro-fine, silt, medly bd, sh, pr par, NS, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>Sh: med-drk, gry, veal AA, soil Ls, drk gry, frdn, NS</p>
3600	<p>(3605-16) Ls: om-bl, camo fly, camo fly (1) medly, frdn, medly, a. tan, frdn, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3610-19) Ls: om-bl, AA, micro-fine, silt, medly, frdn, medly, a. tan, frdn, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3620-25) Ls: om-gry, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3630-35) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3640-45) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3650-55) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3660-65) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3670-75) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3680-85) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3690-95) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3700-05) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p>
50	<p>(3705-10) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3715-20) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3725-30) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3735-40) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3745-50) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3755-60) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3765-70) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3775-80) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3785-90) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>(3795-00) Ls: med-om, soil ch, tan, fresh, n. por, NS, sm blk sh.</p>
3700	<p>Ls: buff-gry-om, micro-fine, rswrked, broken, med drs, soil prs, wip DLN prs, NS, n. for, n. ch, n. odor.</p> <p>Sh: md-drk, gry, veal, gm, soil, msscl, brick red, bl.</p> <p>Ls: lg-gry-om, crypto-mudcl, a. face, a. glauc, med drs, soil prs, wip DLN prs, NS, n. for, n. ch, n. odor.</p> <p>Shy Ls: med-drk, gry, micro-fine, cry IP, medly, pr vs par, NS, n. for, n. ch, n. odor, soil ch, tan, fresh, n. por, NS, sm blk sh.</p> <p>Sh: med-drk, gry, strong veal bl, carb, bric green, pyrite IP, blocky, waxy luster IP, brick red, maroon, red-br.</p> <p>Ls: med-om, micro-fine, medly-gh, br, med drs, pr par, NS, some bl-l, gry, micro-fine, med comp, drs, crkl'd, br, pr par, NS, n. for, n. vis, sh, n. odor.</p>
50	<p>Sh: md-drk, gry, strong veal red, brn, soil green, pyrite IP, om, rswrked, cong shales, red-brn, yell, soil ch, whi-om, translu-opaq, iron sh, weath-devil, br IP, sps wash red.</p> <p>Sh: md-drk, gry, strong veal AA, soil dolomite Ls: om-gry, micro-fine, soil weath br, medly IP, pr vs par, NSFO, L tan sh, soil ch, whi-om, NS, rph wash red.</p> <p>Sh: md-drk, gry, strong veal, med rd-brn, brick red, maroon, some bric green-red, soil rswrked dol. Ls: om-gry, AA, pr vs par, NS, n. for, n. od, soil iron sh, cph wash red.</p>
3800	<p>Sh: md-drk, gry, veal, AA, 20% dol. Ls: om-gry, micro-fine, medly-acc, tubular bd, this, OA pr vs par, NS, 10% Chl, pink-red, salmon, translu-opaq, fresh, sharp, pr par, camo om, face (oolitic), opaq, fresh, NS, n. for, n. ch, n. odor.</p> <p>Sh: drk, gry, strong veal, AA, iron to soil dolomite Ls: AA, NS, soil med br, n. cut, n. ch, drs Chl, AA, pink-red, salmon, translu-opaq, fresh, sharp, face IP (ool), pr vs par, NS, n. for, n. ch, n. odor, no clean data, rph wash red.</p>
50	

<p>Mud Check at 3635' vs 45' wt: 9.2' Chlor: 6.600 LGM: 10 Ph: 10.5 WL: 6.4</p>
<p><b>DST (5) 3555'-3635'</b>  <b>30-60-60-90</b>          Cor: 14.2 to 10' on FRP          no bleed on IP          no bleed on FRP          no bleed on FS?</p> <p><b>102' SOCM</b>          (no gas on IP on FRP)  <b>122' MVV</b>  <b>224' Tot. Fluid</b></p> <p>IMP: 1752 FFP: 72-110          IFP: 28-63 FSP: 1110          ISF: 1140 FHP: 1000          Temp: 104 F</p> <p>Gravel: 100% FFP          DST: 100% FFP</p> <p>Rd = 100          Coaly etc. NA</p>
<p><b>DST (6) 3636'-3687'</b>  <b>30-60-30-60</b>          Cor: 14.2 to 10' on FRP          no bleed on IP          no bleed on FRP          no bleed on FS?</p> <p><b>3' Mud</b>          (no gas on IP on FRP)</p> <p>IMP: 1731 FFP: 23-20          IFP: 22-22 FSP: 23          ISF: 1140 FHP: 1761          Temp: 104 F</p> <p>Gravel: 100% FFP          DST: 100%</p> <p>Rd = 10          Coaly etc. NA</p>
<p>Mud Check at 3677' vs 45' wt: 9.0' Chlor: 6.600 LGM: 10 Ph: 10.0 WL: 6.0</p> <p><b>RTD reached</b>          5:35 PM 2/4/2012</p>

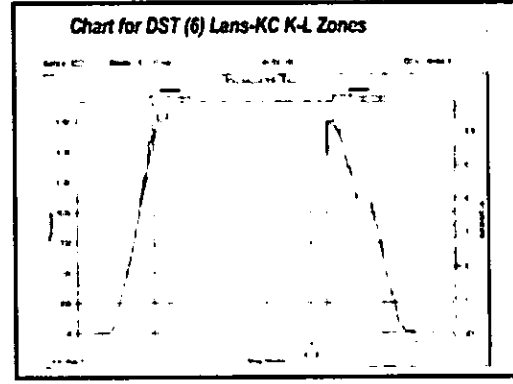
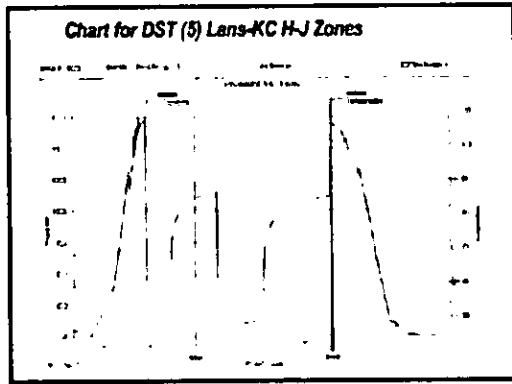
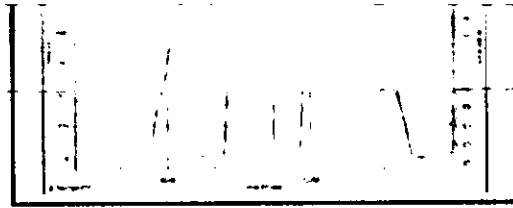
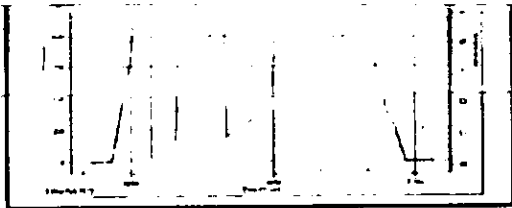


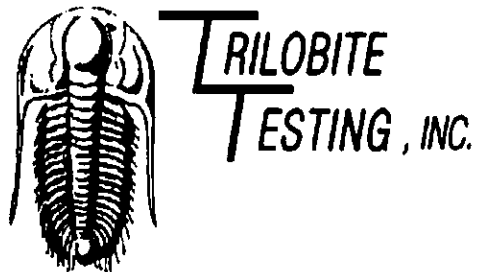
	COMPANY & WELL	<u>Cobalt Energy, LLC 1-11 Joy Estate</u>	ELEVATIONS
	LOCATION	<u>990' FSL, 335' FEL, SE/4</u>	KB <u>2142'</u>
	SEC	<u>11</u> TWSP <u>12s</u> RGE <u>19</u>	GL <u>2132'</u>
	COUNTY	<u>Ellis</u> STATE <u>Kansas</u>	



**Chart for DST (5) Lans-KC H-J Zones**

**Chart for DST (6) Lans-KC K-L Zones**





## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12  
Wichita, KS 67208

ATTN: Tim Lauer

**Joy Estate #1-11**

**11-12s-19w Ellis,KS**

Start Date: 2012.01.31 @ 02:38:30

End Date: 2012.01.31 @ 10:51:00

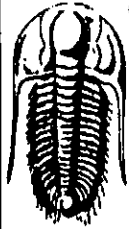
Job Ticket #: 46375                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.06 @ 15:12:02



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Cobalt Energy LLC  
115 S. Belmont #12  
Wichita, KS 67208  
ATTN: Tim Lauer

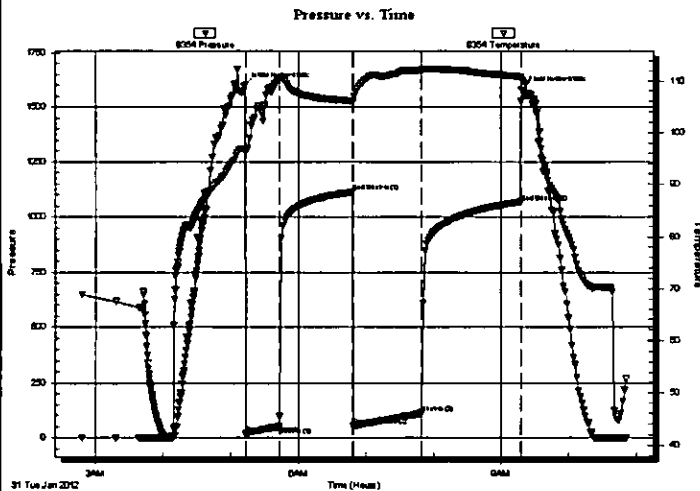
**11-12s-19w Ellis, KS**  
**Joy Estate #1-11**  
Job Ticket: 46375      **DST#: 1**  
Test Start: 2012.01.31 @ 02:38:30

### GENERAL INFORMATION:

Formation: **Topeka**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 05:13:00  
Time Test Ended: 10:51:00  
Interval: **3334.00 ft (KB) To 3362.00 ft (KB) (TVD)**  
Total Depth: **3362.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Poor**  
Test Type: **Conventional Bottom Hole (Initial)**  
Tester: **Dustin Rash**  
Unit No: **38**  
Reference Elevations: **2142.00 ft (KB)**  
**2131.00 ft (CF)**  
**KB to GR/CF: 11.00 ft**

**Serial #: 8354**      **Inside**  
Press@RunDepth: **107.48 psig @ 3336.00 ft (KB)**  
Start Date: **2012.01.31**      End Date: **2012.01.31**  
Start Time: **02:48:30**      End Time: **10:51:00**  
Capacity: **8000.00 psig**  
Last Calib.: **2012.01.31**  
Time On Btmr: **2012.01.31 @ 05:12:30**  
Time Off Btmr: **2012.01.31 @ 09:18:30**

**TEST COMMENT:** IF-Weak blow . Built to 3/4 inch. Died to 1/4 inch.  
IS-No Return.  
FF-Weak building blow . Built to 6 inches.  
FSI-Slight surface return for 1 minute.



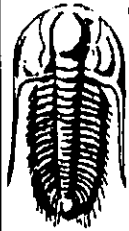
PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1599.17	96.80	Initial Hydro-static
1	18.17	96.54	Open To Flow (1)
31	50.18	110.49	Shut-In(1)
96	1112.23	106.05	End Shut-In(1)
96	51.31	105.90	Open To Flow (2)
157	107.48	112.10	Shut-In(2)
245	1068.24	110.85	End Shut-In(2)
246	1579.51	110.24	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
120.00	70%Water/30%Mud	1.68
65.00	90%Water/10%Mud	0.91

Gas Rates			
	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

11-12s-19w Ellis, KS

115 S. Belmont #12  
Wichita, KS 67208

Joy Estate #1-11

Job Ticket: 46375

DST#: 1

ATTN: Tim Lauer

Test Start: 2012.01.31 @ 02:38:30

### Tool Information

Drill Pipe:	Length: 3328.00 ft	Diameter: 3.80 inches	Volume: 46.68 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 20000.00 lb
			Total Volume: 46.68 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3334.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	51.00 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			3312.00	
Shut In Tool	5.00			3317.00	
Hydraulic tool	5.00			3322.00	
Safety Joint	3.00			3325.00	
Packer	5.00			3330.00	23.00 Bottom Of Top Packer
Packer	4.00			3334.00	
Stubb	1.00			3335.00	
Perforations	1.00			3336.00	
Recorder	0.00	8354	Inside	3336.00	
Recorder	0.00	8520	Outside	3336.00	
Perforations	23.00			3359.00	
Bullnose	3.00			3362.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Cobalt Energy LLC  
115 S. Belmont #12  
Wichita, KS 67208  
ATTN: Tim Lauer

**11-12s-19w Ellis, KS**  
**Joy Estate #1-11**  
Job Ticket: 46375      **DST#: 1**  
Test Start: 2012.01.31 @ 02:38:30

**Mud and Cushion Information**

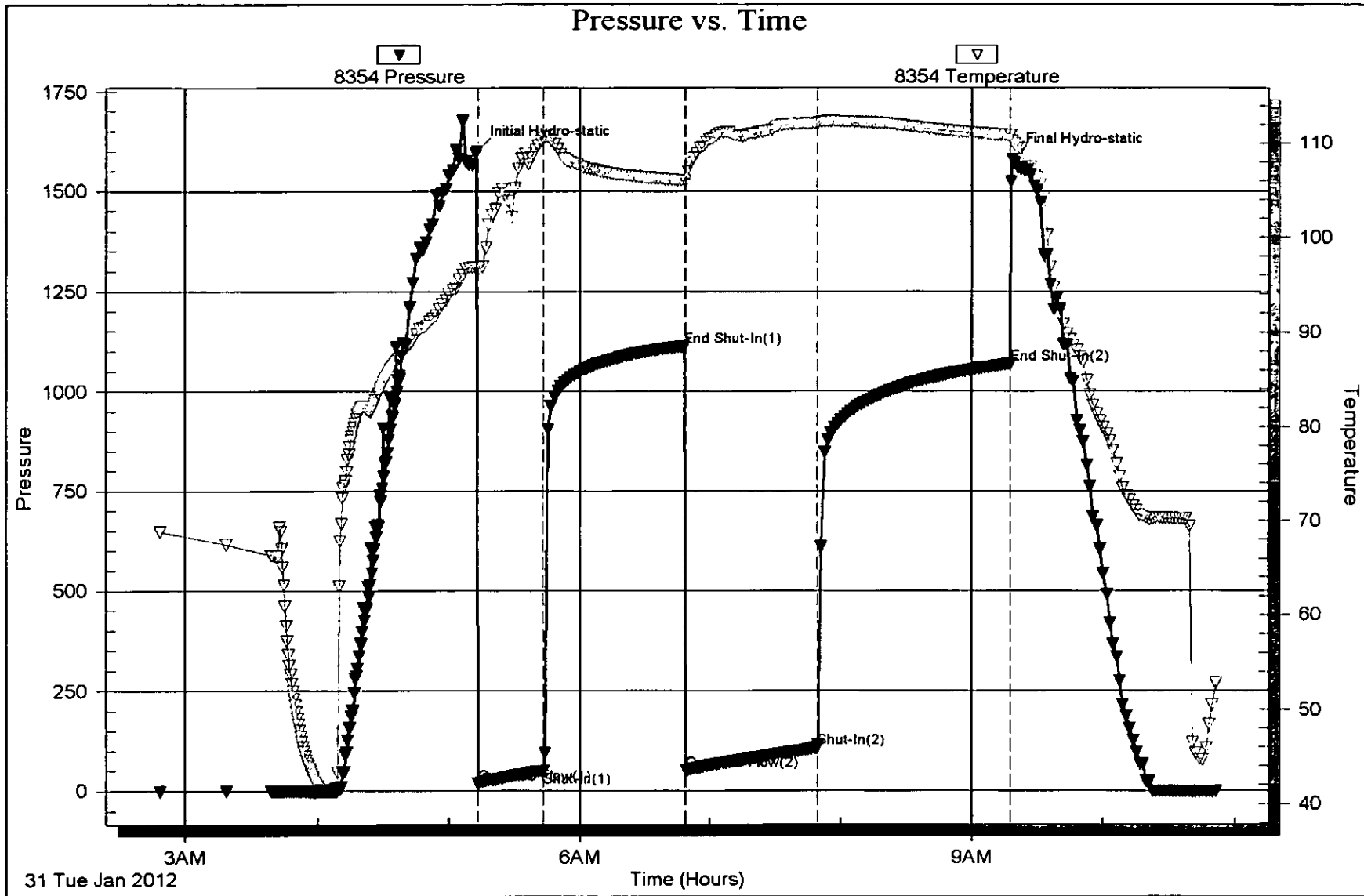
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 52000 ppm	
Viscosity: 29.00 sec/qt	Cushion Volume: bbl		
Water Loss: in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.15 ohm.m	Gas Cushion Pressure: psig		
Salinity: 74000.00 ppm			
Filter Cake: inches			

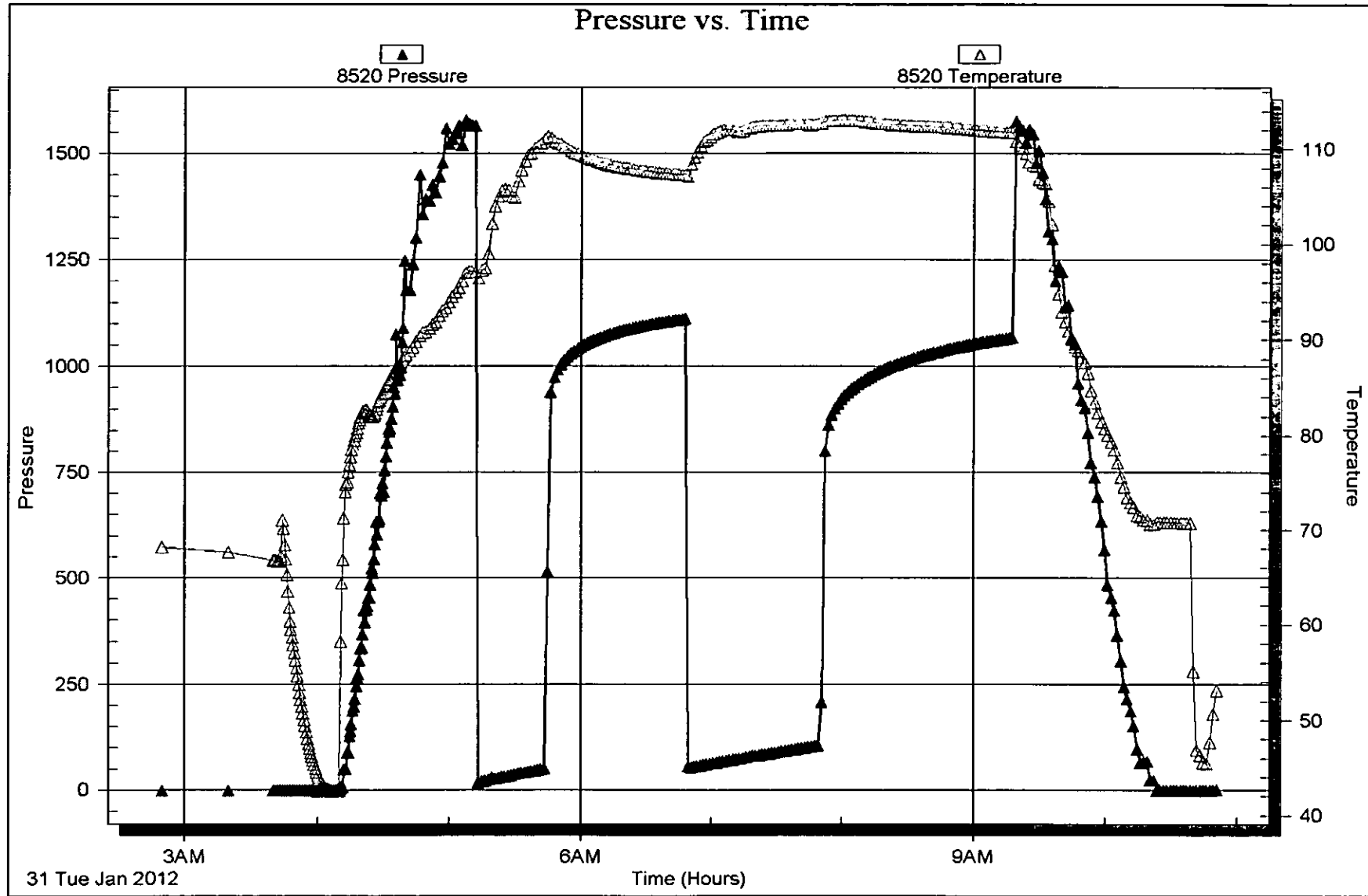
**Recovery Information**

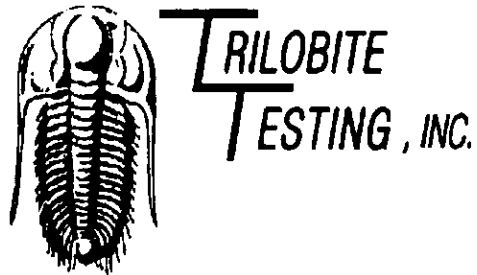
Recovery Table

Length ft	Description	Volume bbl
120.00	70%Water/30%Mud	1.683
65.00	90%Water/10%Mud	0.912

Total Length: 185.00 ft      Total Volume: 2.595 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: Tim Lauer

**Joy Estate #1-11**

**11-12s-19w Ellis,KS**

Start Date: 2012.01.31 @ 19:49:30

End Date: 2012.02.01 @ 03:47:30

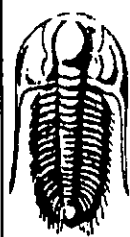
Job Ticket #: 46901                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.06 @ 15:10:32



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Cobalt Energy LLC

11-12s-19w Ellis, KS

115 S. Belmont #12  
Wichita, KS 67208

Joy Estate #1-11

Job Ticket: 46901

DST#: 2

ATTN: Tim Lauer

Test Start: 2012.01.31 @ 19:49:30

### GENERAL INFORMATION:

Formation: **Toronto**

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

Time Tool Opened: 21:22:40

Time Test Ended: 03:47:30

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

Tester: **Dustin Rash**

Unit No: **38**

Interval: **3403.00 ft (KB) To 3442.00 ft (KB) (TVD)**

Reference Elevations: **2142.00 ft (KB)**

Total Depth: **3442.00 ft (KB) (TVD)**

**2131.00 ft (CF)**

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

KB to GR/CF: **11.00 ft**

Serial #: **8354**

Inside

Press@RunDepth: **84.23 psig @ 3405.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.01.31**

End Date:

**2012.02.01**

Last Calib.: **2012.02.01**

Start Time: **19:59:30**

End Time:

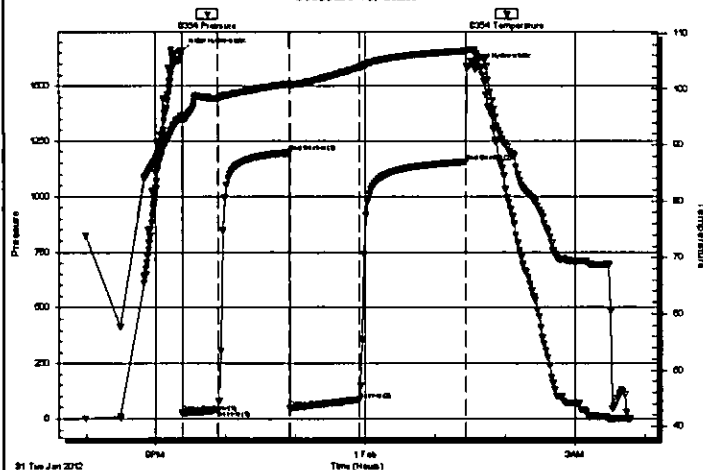
**03:47:30**

Time On Btm: **2012.01.31 @ 21:22:30**

Time Off Btm: **2012.02.01 @ 01:27:30**

TEST COMMENT: IF-Fair building blow . Built to 7 inches.  
IS-No Return.  
FF-Weak blow . Built to 3 inches. Died to steady 1/2 inch blow .  
FSI-No Return.

Pressure vs. Time



### PRESSURE SUMMARY

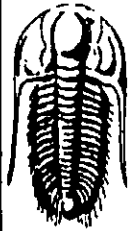
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1657.82	95.17	Initial Hydro-static
1	25.00	94.56	Open To Flow (1)
31	40.48	98.38	Shut-In(1)
92	1196.98	100.94	End Shut-In(1)
93	46.68	100.74	Open To Flow (2)
152	84.23	103.82	Shut-In(2)
244	1154.58	106.80	End Shut-In(2)
245	1587.29	106.92	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
120.00	70%Water/30%Mud	1.68
70.00	15%Gas/85%Oil	0.98
0.00	120' G.I.P.	0.00

### 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: Tim Lauer

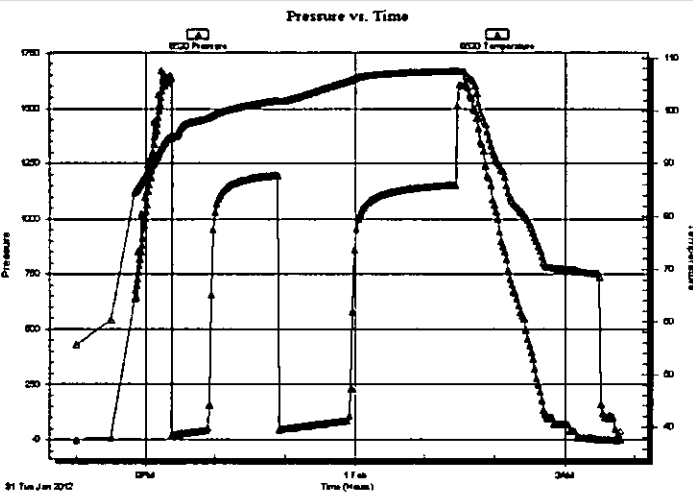
**11-12s-19w Ellis, KS**  
**Joy Estate #1-11**  
Job Ticket: 46901      **DST#: 2**  
Test Start: 2012.01.31 @ 19:49:30

**GENERAL INFORMATION:**

Formation: <b>Toronto</b>	Test Type: Conventional Bottom Hole (Initial)
Deviated: <b>No Whipstock</b> ft (KB)	Tester: Dustin Rash
Time Tool Opened: 21:22:40	Unit No: 38
Time Test Ended: 03:47:30	
<b>Interval: 3403.00 ft (KB) To 3442.00 ft (KB) (TVD)</b>	Reference Elevations: 2142.00 ft (KB)
Total Depth: 3442.00 ft (KB) (TVD)	2131.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair
	KB to GR/CF: 11.00 ft

<b>Serial #: 8520</b>	<b>Outside</b>	Capacity: 8000.00 psig
Press@RunDepth: psig @ 3405.00 ft (KB)	Start Date: 2012.01.31	End Date: 2012.02.01
Start Time: 20:00:00	End Time: 03:47:30	Last Calib.: 2012.02.01
		Time On Btrm
		Time Off Btrm

TEST COMMENT: IF-Fair building blow . Built to 7 inches.  
IS-No Return.  
FF-Weak blow . Built to 3 inches. Died to steady 1/2 inch blow .  
FS-No Return.



**PRESSURE SUMMARY**

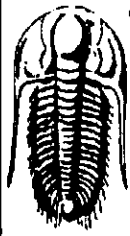
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
120.00	70%Water/30%Mud	1.68
70.00	15%Gas/85%Oil	0.98
0.00	120' G.I.P.	0.00

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy LLC

**11-12s-19w Ellis,KS**

115 S. Belmont #12  
Wichita, KS 67208

**Joy Estate #1-11**

Job Ticket: 46901

**DST#: 2**

ATTN: Tim Lauer

Test Start: 2012.01.31 @ 19:49:30

### Tool Information

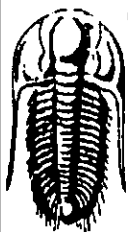
Drill Pipe:	Length: 3389.00 ft	Diameter: 3.80 inches	Volume: 47.54 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 47.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3403.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	62.00 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			3381.00	
Shut In Tool	5.00			3386.00	
Hydraulic tool	5.00			3391.00	
Safety Joint	3.00			3394.00	
Packer	5.00			3399.00	23.00 Bottom Of Top Packer
Packer	4.00			3403.00	
Stubb	1.00			3404.00	
Perforations	1.00			3405.00	
Recorder	0.00	8354	Inside	3405.00	
Recorder	0.00	8520	Outside	3405.00	
Perforations	34.00			3439.00	
Bullnose	3.00			3442.00	39.00 Bottom Packers & Anchor

**Total Tool Length: 62.00**





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

11-12s-19w Ellis, KS

115 S. Belmont #12  
Wichita, KS 67208

Joy Estate #1-11

Job Ticket: 46901

DST#: 2

ATTN: Tim Lauer

Test Start: 2012.01.31 @ 19:49:30

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

25 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

82000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.23 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	70%Water/30%Mud	1.683
70.00	15%Gas/85%Oil	0.982
0.00	120' G.I.P.	0.000

Total Length: 190.00 ft      Total Volume: 2.665 bbl

Num Fluid Samples: 0

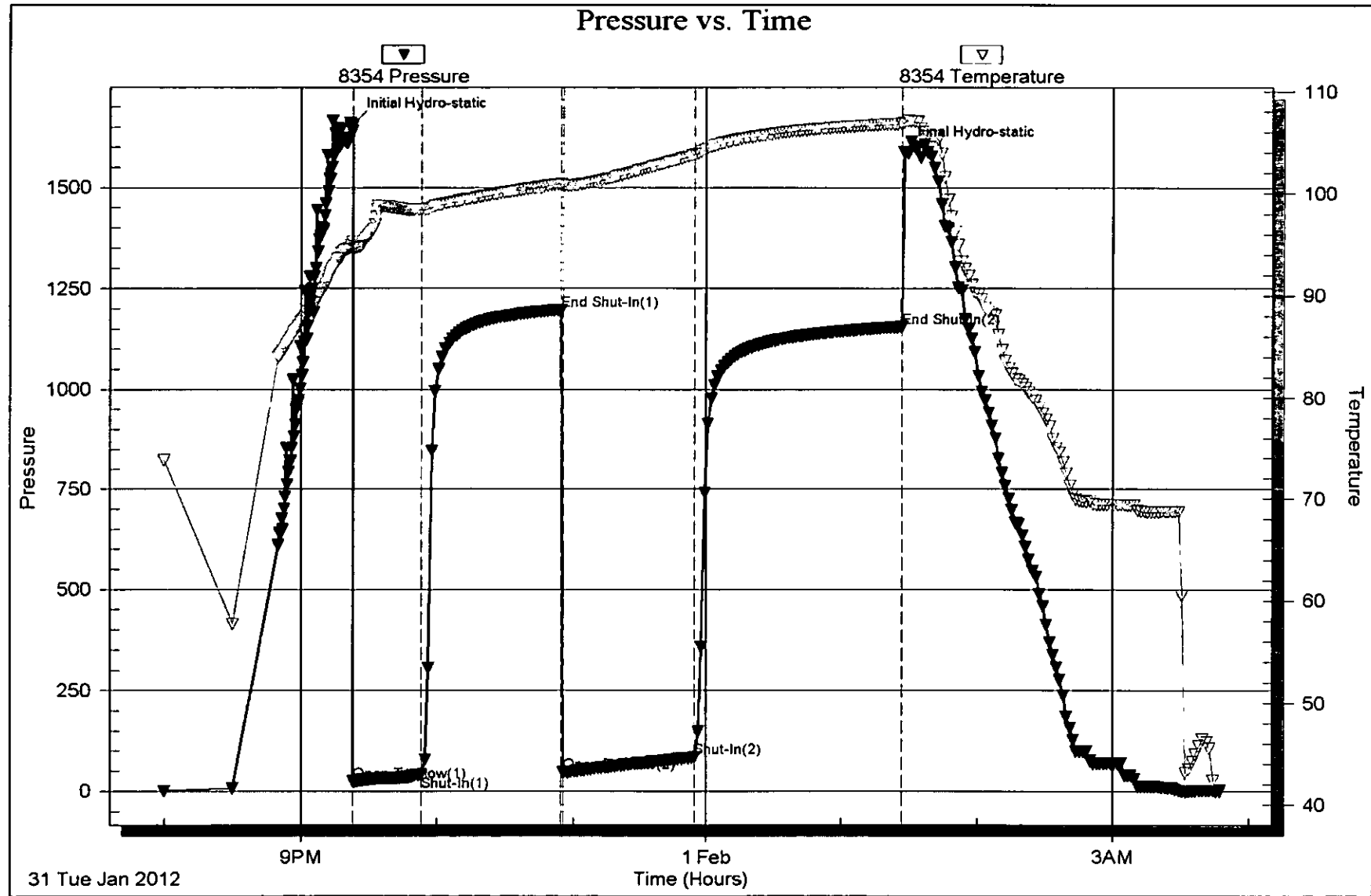
Num Gas Bombs: 0

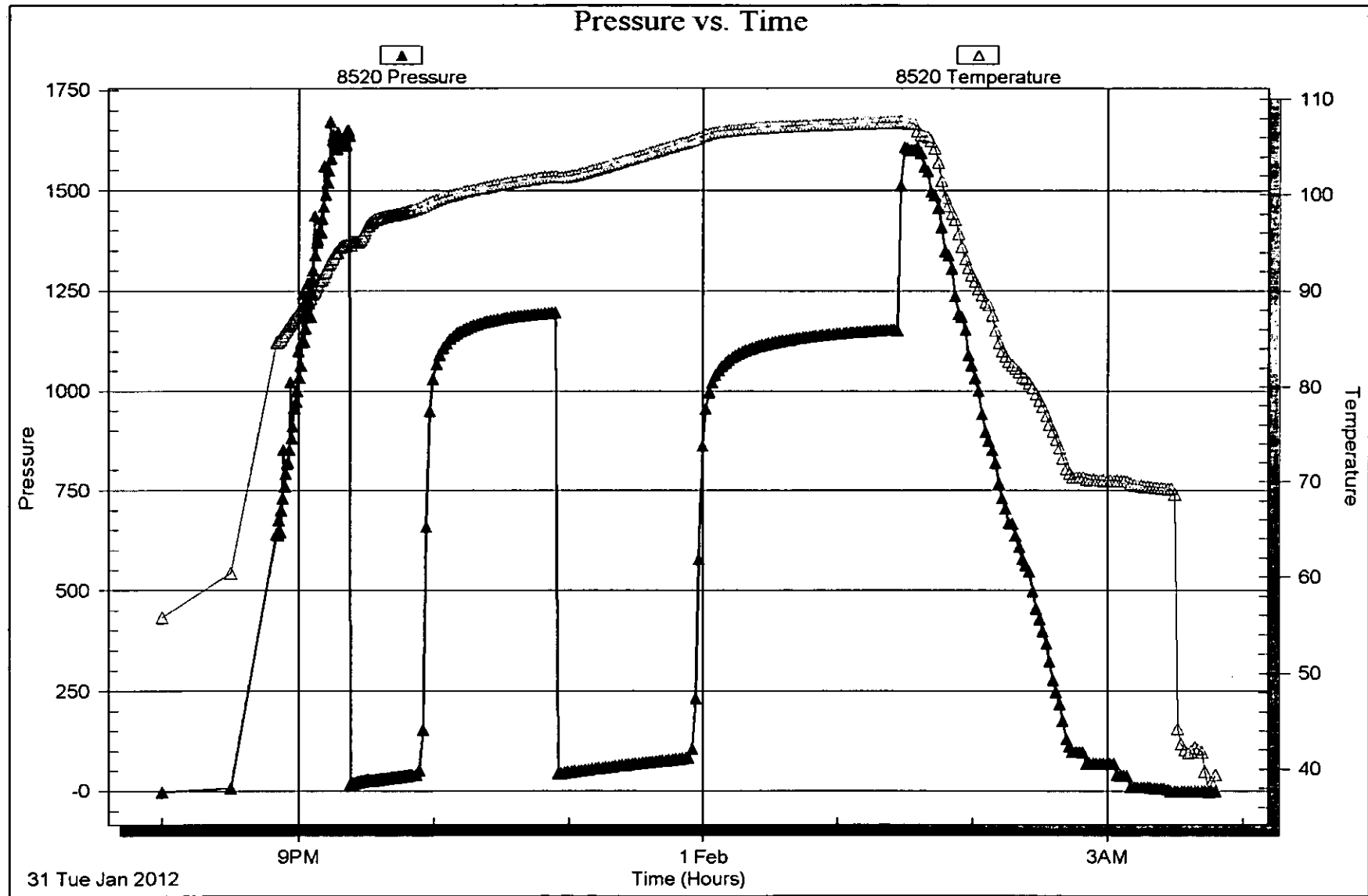
Serial #:

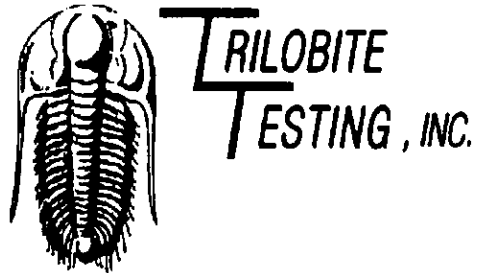
Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12  
Wichita, KS 67208

ATTN: Tim Lauer

**Joy Estate #1-11**

**11-12s-19w Ellis,KS**

Start Date: 2012.02.01 @ 16:56:15

End Date: 2012.02.02 @ 00:23:15

Job Ticket #: 46902                      DST #: 3

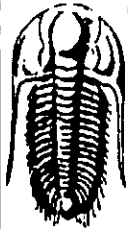
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.06 @ 15:09:50

Cobalt Energy LLC    11-12s-19w Ellis,KS    Joy Estate #1-11    DST # 3    LKC "B-D"    2012.02.01



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Cobalt Energy LLC  
 115 S. Belmont #12  
 Wichita, KS 67208  
 ATTN: Tim Lauer

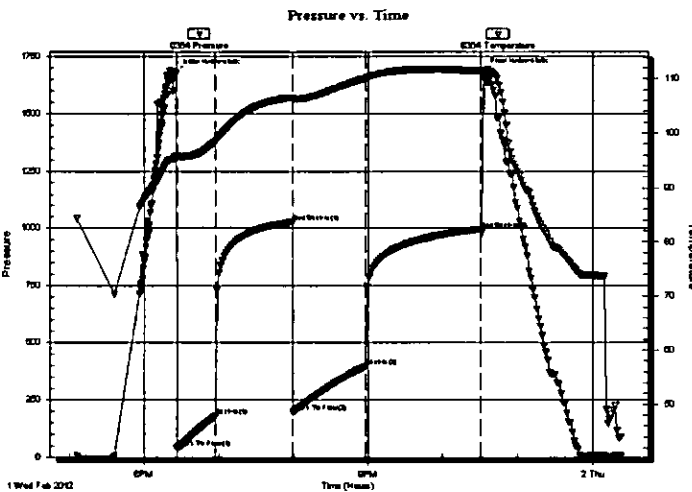
**11-12s-19w Ellis, KS**  
**Joy Estate #1-11**  
 Job Ticket: 46902      **DST#: 3**  
 Test Start: 2012.02.01 @ 16:56:15

### GENERAL INFORMATION:

Formation: **LKC "B-D"**  
 Deviated: **No Whipstock**      ft (KB)  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Time Tool Opened: 18:25:55      Tester: **Dustin Rash**  
 Time Test Ended: 00:23:15      Unit No: **38**  
 Interval: **3467.00 ft (KB) To 3517.00 ft (KB) (TVD)**      Reference Elevations: **2142.00 ft (KB)**  
 Total Depth: **3517.00 ft (KB) (TVD)**      **2131.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**      KB to GR/CF: **11.00 ft**

**Serial #: 8354**      **Inside**  
 Press@RunDepth: **396.97 psig @ 3506.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2012.02.01**      End Date: **2012.02.02**      Last Calib.: **2012.02.02**  
 Start Time: **17:06:15**      End Time: **00:23:15**      Time On Btm: **2012.02.01 @ 18:25:35**  
 Time Off Btm: **2012.02.01 @ 22:32:45**

**TEST COMMENT:** IF-Strong building blow . BOB in 5 minutes.  
 IS-No Return.  
 FF-Strong building blow . BOB in 9 minutes 30 seconds.  
 FS-No Return.



### PRESSURE SUMMARY

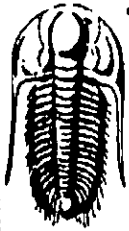
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.79	95.83	Initial Hydro-static
1	41.06	95.41	Open To Flow (1)
32	177.90	98.46	Shut-In(1)
94	1026.63	106.57	End Shut-In(1)
95	196.03	106.32	Open To Flow (2)
153	396.97	110.09	Shut-In(2)
246	994.35	111.40	End Shut-In(2)
248	1683.20	110.66	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
760.00	90%Water/10%Mud	10.66

### 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: Tim Lauer

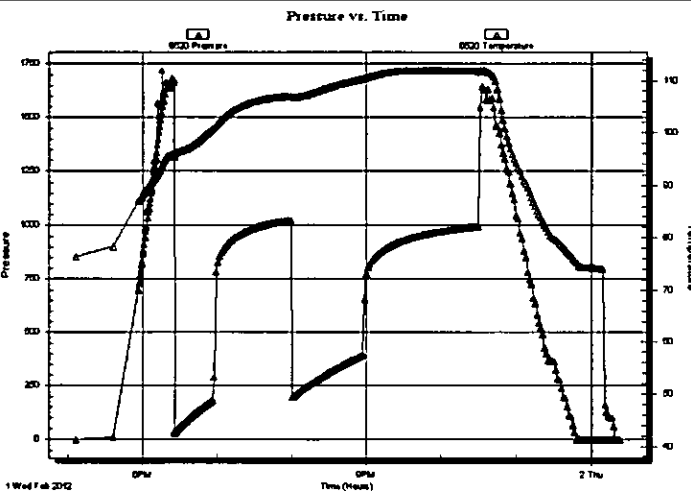
**11-12s-19w Ellis, KS**  
**Joy Estate #1-11**  
 Job Ticket: 46902      **DST#: 3**  
 Test Start: 2012.02.01 @ 16:56:15

**GENERAL INFORMATION:**

Formation: **LKC "B-D"**  
 Deviated: **No Whipstock**      ft (KB)  
 Time Tool Opened: 18:25:55  
 Time Test Ended: 00:23:15  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Dustin Rash**  
 Unit No: **38**  
 Interval: **3467.00 ft (KB) To 3517.00 ft (KB) (TVD)**  
 Total Depth: **3517.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Reference Elevations: **2142.00 ft (KB)**  
    **2131.00 ft (CF)**  
    **KB to GR/CF: 11.00 ft**

**Serial #: 8520**      **Outside**  
 Press@RunDepth:      psig @      3506.00 ft (KB)      Capacity:      8000.00 psig  
 Start Date:      2012.02.01      End Date:      2012.02.02      Last Calib.:      2012.02.02  
 Start Time:      17:06:35      End Time:      00:23:05      Time On Btrr  
    Time Off Btrr

**TEST COMMENT:** F-Strong building blow . BOB in 5 minutes.  
 IS-No Return.  
 FF-Strong building blow . BOB in 9 minutes 30 seconds.  
 FS-No Return.



**PRESSURE SUMMARY**

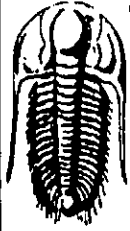
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
760.00	90%Water/10%Mud	10.66

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy LLC

11-12s-19w Ellis, KS

115 S. Belmont #12  
Wichita, KS 67208

Joy Estate #1-11

Job Ticket: 46902

DST#: 3

ATTN: Tim Lauer

Test Start: 2012.02.01 @ 16:56:15

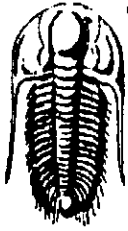
### Tool Information

Drill Pipe:	Length: 3454.00 ft	Diameter: 3.80 inches	Volume: 48.45 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 48.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3467.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	73.00 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			3445.00	
Shut In Tool	5.00			3450.00	
Hydraulic tool	5.00			3455.00	
Safety Joint	3.00			3458.00	
Packer	5.00			3463.00	23.00 Bottom Of Top Packer
Packer	4.00			3467.00	
Stubb	1.00			3468.00	
Perforations	5.00			3473.00	
Change Over Sub	1.00			3474.00	
Drill Pipe	31.00			3505.00	
Change Over Sub	1.00			3506.00	
Recorder	0.00	8354	Inside	3506.00	
Recorder	0.00	8520	Outside	3506.00	
Perforations	8.00			3514.00	
Bullnose	3.00			3517.00	50.00 Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy LLC

**11-12s-19w Ellis, KS**

115 S. Belmont #12  
Wichita, KS 67208

**Joy Estate #1-11**

Job Ticket: 46902

**DST#: 3**

ATTN: Tim Lauer

Test Start: 2012.02.01 @ 16:56:15

### 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: 112000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: 0.18 ohm.m

Salinity: 3500.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
760.00	90%Water/10%Mud	10.661

Total Length: 760.00 ft

Total Volume: 10.661 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

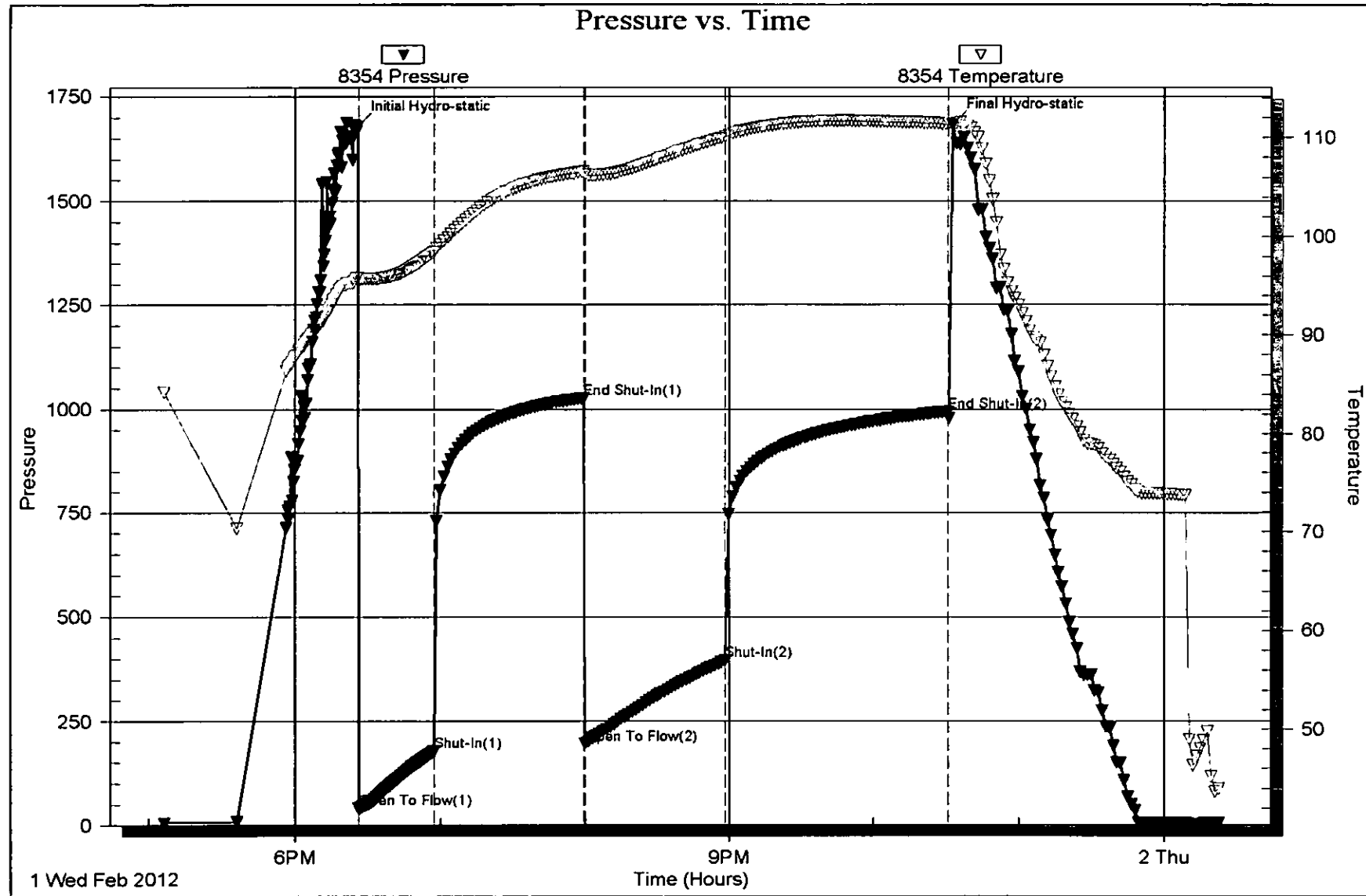
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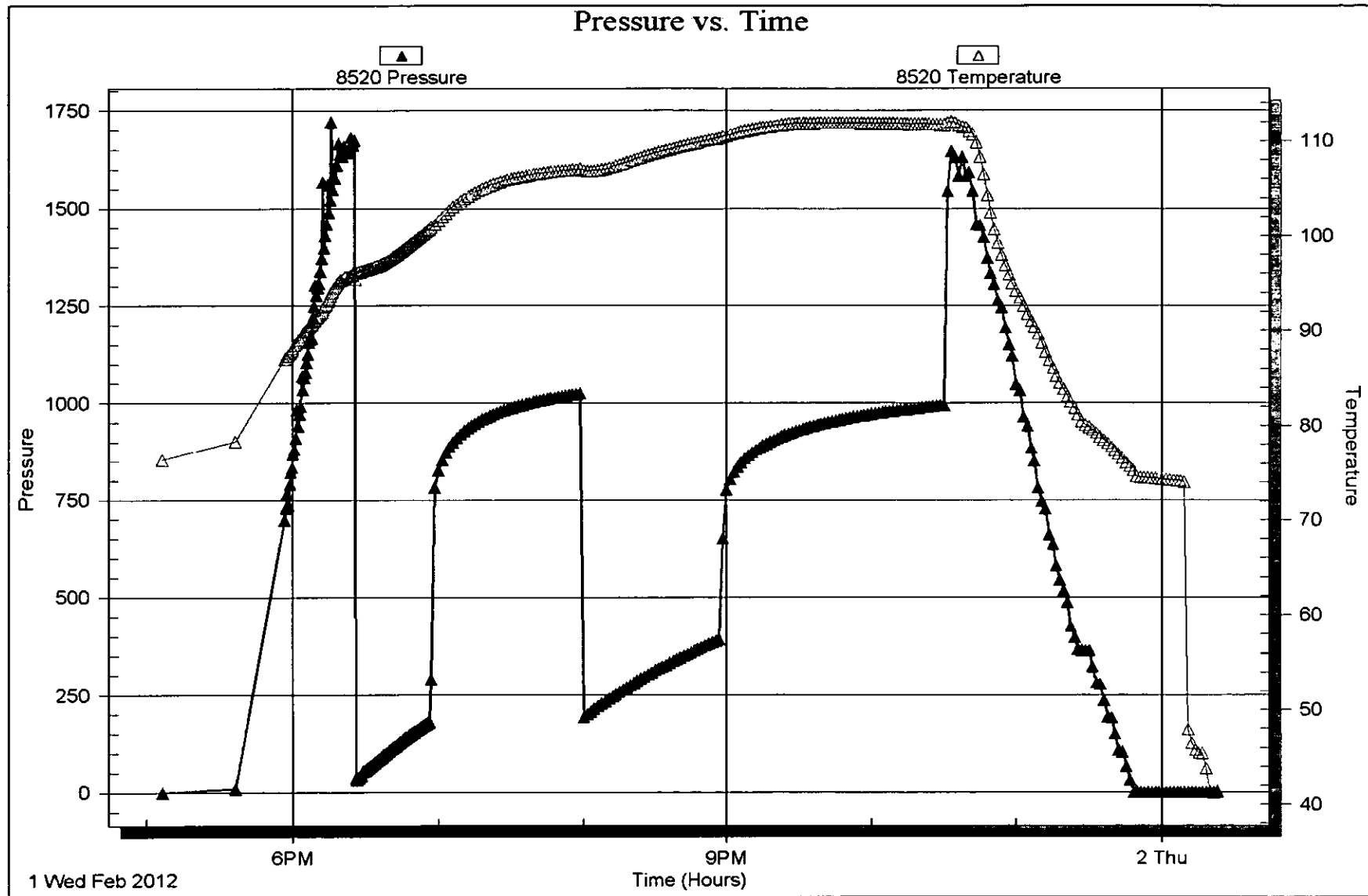
Laboratory Name:

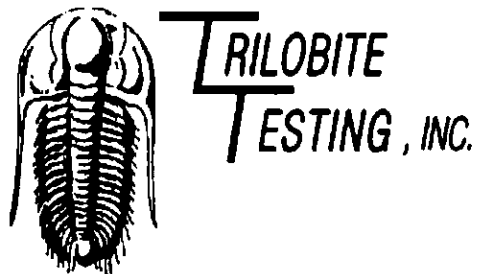
Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12  
Wichita, KS 67208

ATTN: Tim Lauer

**Joy Estate #1-11**

**11-12s-19w Ellis,KS**

Start Date: 2012.02.02 @ 07:14:00

End Date: 2012.02.02 @ 14:39:00

Job Ticket #: 46903                      DST #: 4

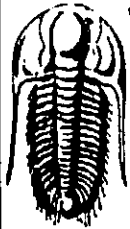
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.06 @ 15:09:12

Cobalt Energy LLC    11-12s-19w Ellis,KS    Joy Estate #1-11    DST # 4    LKC "E-F"    2012.02.02



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Cobalt Energy LLC  
115 S. Belmont #12  
Wichita, KS 67208  
ATTN: Tim Lauer

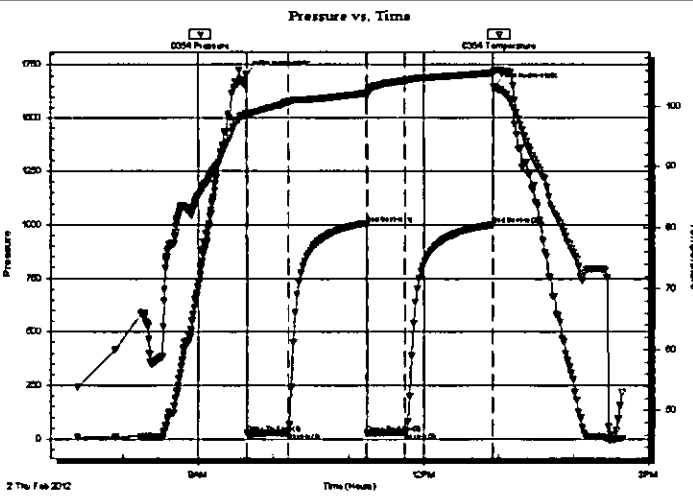
**11-12s-19w Ellis, KS**  
**Joy Estate #1-11**  
Job Ticket: 46903      **DST#: 4**  
Test Start: 2012.02.02 @ 07:14:00

### GENERAL INFORMATION:

Formation: **LKC "E-F"**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: 09:39:00  
Time Test Ended: 14:39:00  
Test Type: **Conventional Bottom Hole (Initial)**  
Tester: **Dustin Rash**  
Unit No: **38**  
Interval: **3516.00 ft (KB) To 3541.00 ft (KB) (TVD)**  
Reference Elevations: **2142.00 ft (KB)**  
Total Depth: **3541.00 ft (KB) (TVD)**      **2131.00 ft (CF)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**      **KB to GR/CF: 11.00 ft**

**Serial #: 8354**      **Inside**  
Press@RunDepth: **31.29 psig @ 3518.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2012.02.02**      End Date: **2012.02.02**      Last Calib.: **2012.02.02**  
Start Time: **07:24:00**      End Time: **14:39:00**      Time On Btmr: **2012.02.02 @ 09:38:30**  
Time Off Btmr: **2012.02.02 @ 12:56:30**

**TEST COMMENT:** IF-Very weak surging 1/4 inch blow.  
ISI-No Return.  
FF-No Blow.  
FSI-No Return.



### PRESSURE SUMMARY

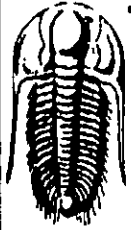
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.91	98.83	Initial Hydro-static
1	26.18	98.59	Open To Flow (1)
34	29.27	100.78	Shut-In(1)
96	1004.85	102.12	End Shut-In(1)
97	27.74	101.68	Open To Flow (2)
127	31.29	104.26	Shut-In(2)
197	998.16	105.46	End Shut-In(2)
198	1648.99	105.83	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
20.00	50%Water/50%Mud	0.28

### 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: Tim Lauer

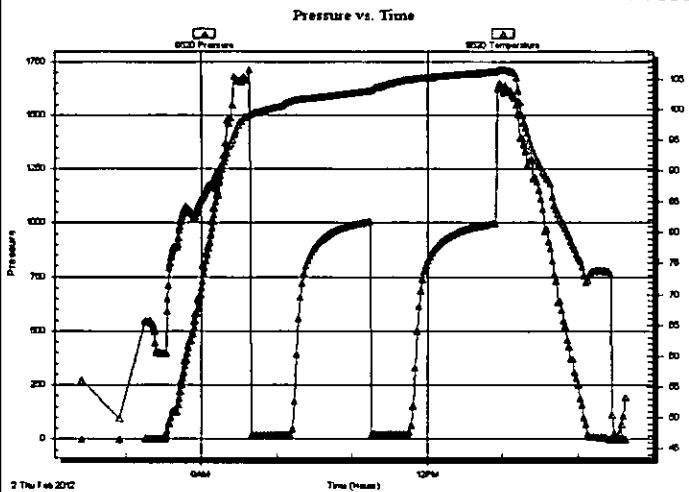
**11-12s-19w Ellis, KS**  
**Joy Estate #1-11**  
Job Ticket: 46903      **DST#: 4**  
Test Start: 2012.02.02 @ 07:14:00

## GENERAL INFORMATION:

Formation: <b>LKC "B-F"</b>		Test Type: <b>Conventional Bottom Hole (Initial)</b>
Deviated: <b>No Whipstock:</b>	<b>ft (KB)</b>	Tester: <b>Dustin Rash</b>
Time Tool Opened: <b>09:39:00</b>		Unit No: <b>38</b>
Time Test Ended: <b>14:39:00</b>		Reference Elevations: <b>2142.00 ft (KB)</b>
<b>Interval: 3516.00 ft (KB) To 3541.00 ft (KB) (TVD)</b>		<b>2131.00 ft (CF)</b>
Total Depth: <b>3541.00 ft (KB) (TVD)</b>		<b>KB to GR/CF: 11.00 ft</b>
Hole Diameter: <b>7.88 inches</b>	Hole Condition: <b>Fair</b>	

<b>Serial #: 8520</b>	<b>Outside</b>		
Press@RunDepth:	psig @	3518.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.02.02	End Date:	2012.02.02	Last Calib.: 2012.02.02
Start Time: 07:25:00	End Time:	14:39:00	Time On Btmr
			Time Off Btmr

**TEST COMMENT:** IF-Very weak surging 1/4 inch blow.  
IS-No Return.  
FF-No Blow.  
FSI-No Return.



## PRESSURE SUMMARY

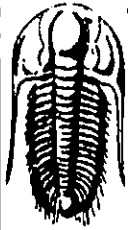
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	50%Water/50%Mud	0.28

## Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcfd)



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy LLC  
115 S. Belmont #12  
Wichita, KS 67208  
ATTN: Tim Lauer

**11-12s-19w Ellis, KS**  
**Joy Estate #1-11**  
Job Ticket: 46903      **DST#: 4**  
Test Start: 2012.02.02 @ 07:14:00

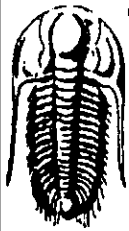
### Tool Information

Drill Pipe:	Length: 3513.00 ft	Diameter: 3.80 inches	Volume: 49.28 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 49.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3516.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 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
Change Over Sub	1.00			3494.00	
Shut In Tool	5.00			3499.00	
Hydraulic tool	5.00			3504.00	
Safety Joint	3.00			3507.00	
Packer	5.00			3512.00	23.00      Bottom Of Top Packer
Packer	4.00			3516.00	
Stubb	1.00			3517.00	
Perforations	1.00			3518.00	
Recorder	0.00	8354	Inside	3518.00	
Recorder	0.00	8520	Outside	3518.00	
Perforations	20.00			3538.00	
Bullnose	3.00			3541.00	25.00      Bottom Packers & Anchor

**Total Tool Length: 48.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Cobalt Energy LLC

11-12s-19w Ellis, KS

115 S. Belmont #12  
Wichita, KS 67208

Joy Estate #1-11

Job Ticket: 46903

DST#: 4

ATTN: Tim Lauer

Test Start: 2012.02.02 @ 07:14:00

### 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:

22000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.36 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: inches

### Recovery Information

#### Recovery Table

Length ft	Description	Volume bbl
20.00	50%Water/50%Mud	0.281

Total Length: 20.00 ft

Total Volume: 0.281 bbl

Num Fluid Samples: 0

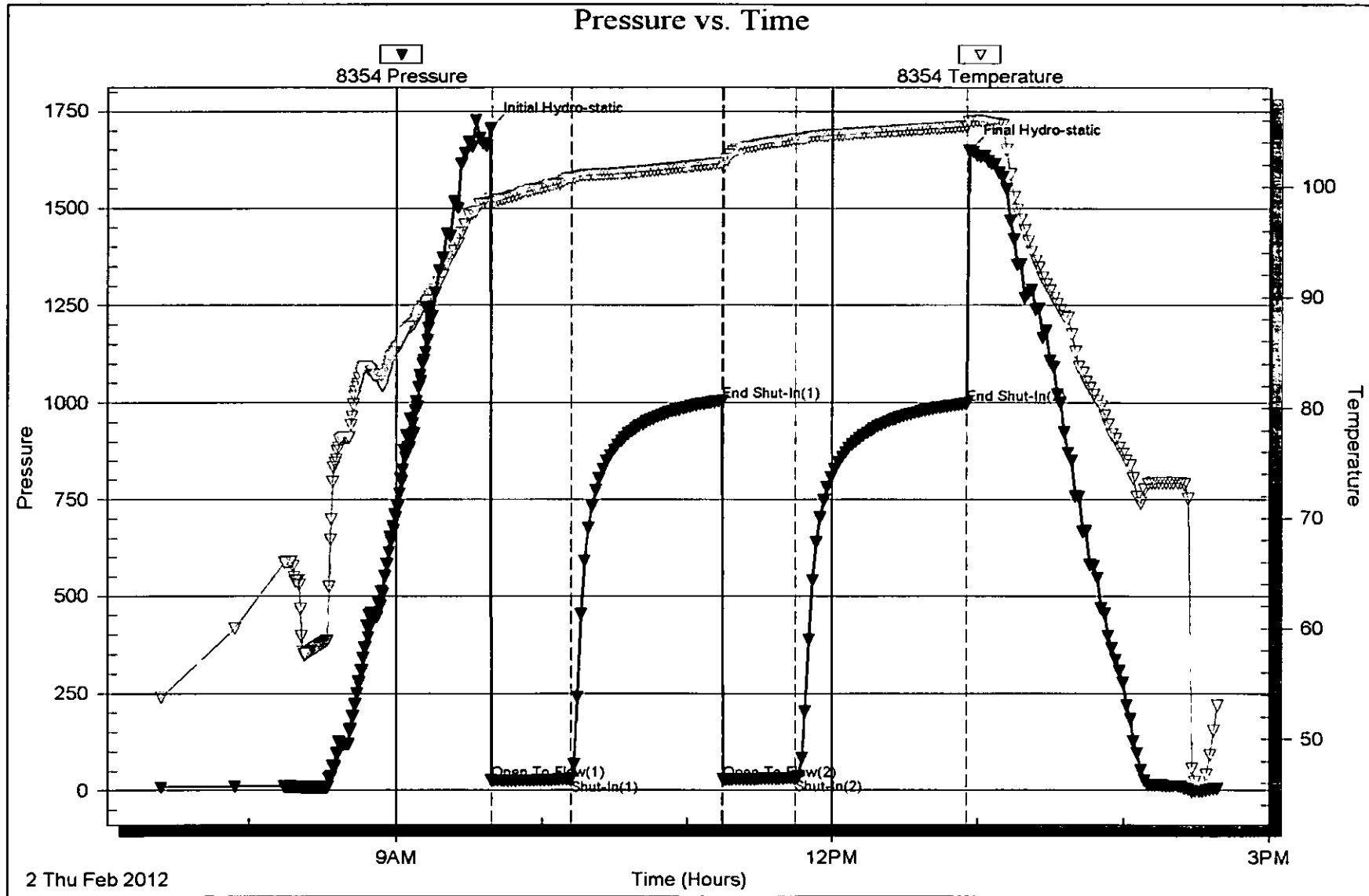
Num Gas Bombs: 0

Serial #:

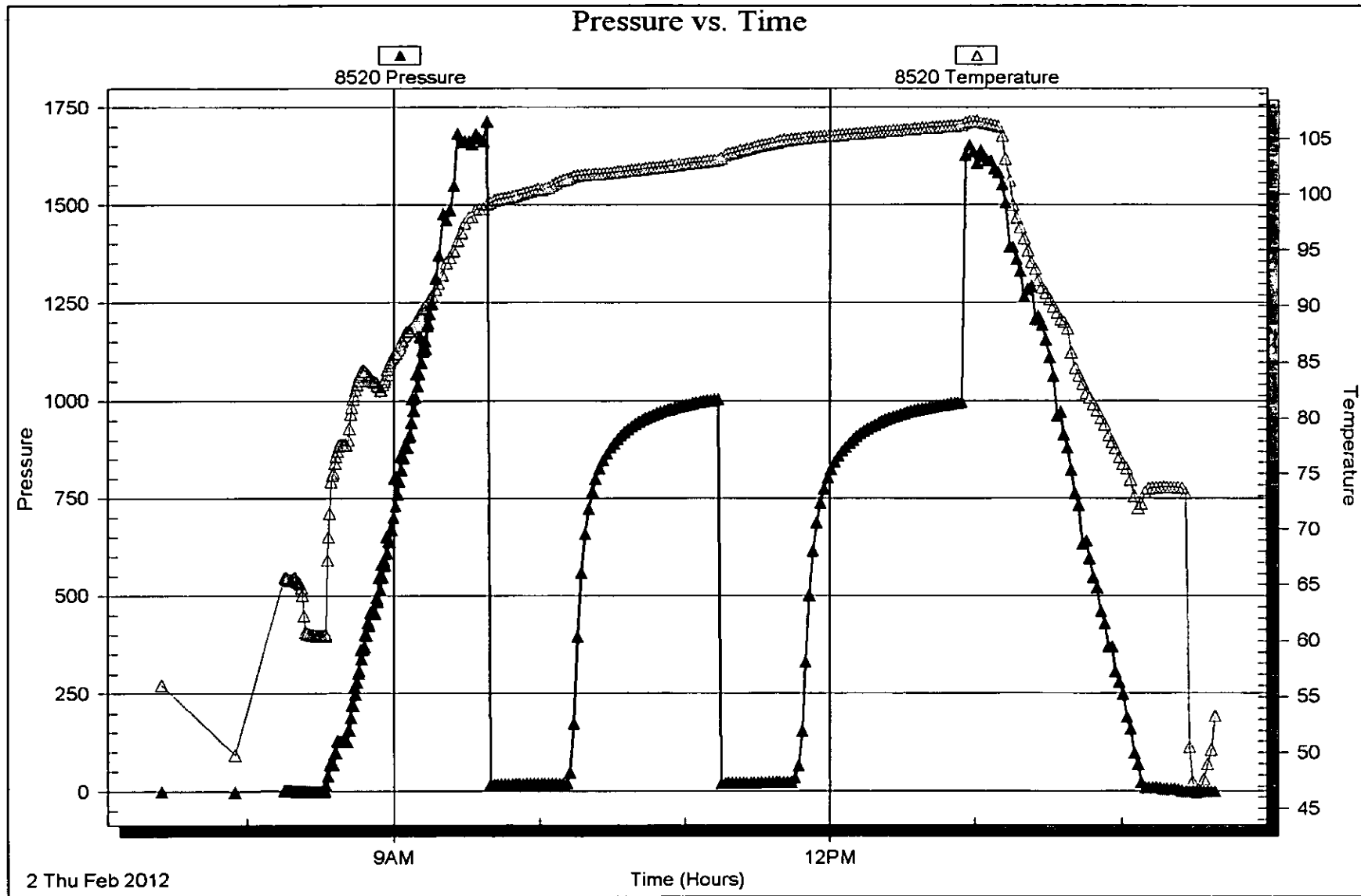
Laboratory Name:

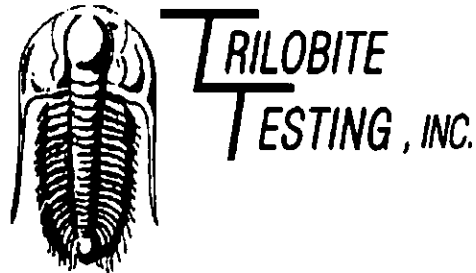
Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12  
Wichita, KS 67208

ATTN: Tim Lauer

**Joy Estate #1-11**

**11-12s-19w Ellis,KS**

Start Date: 2012.02.03 @ 03:33:15

End Date: 2012.02.03 @ 11:16:15

Job Ticket #: 46904                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.06 @ 15:07:11



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Cobalt Energy LLC

115 S. Belmont #12  
Wichita, KS 67208

ATTN: TimLauer

11-12s-19w Ellis,KS

Joy Estate #1-11

Job Ticket: 46904

DST#: 5

Test Start: 2012.02.03 @ 03:33:15

### GENERAL INFORMATION:

Formation: LKC "G-J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:56:05

Time Test Ended: 11:16:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3555.00 ft (KB) To 3635.00 ft (KB) (TVD)

Reference Elevations: 2142.00 ft (KB)

Total Depth: 3635.00 ft (KB) (TVD)

2131.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8354

Inside

Press@RunDepth: 119.41 psig @ 3625.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.03

End Date:

2012.02.03

Last Calib.: 2012.02.03

Start Time: 03:43:15

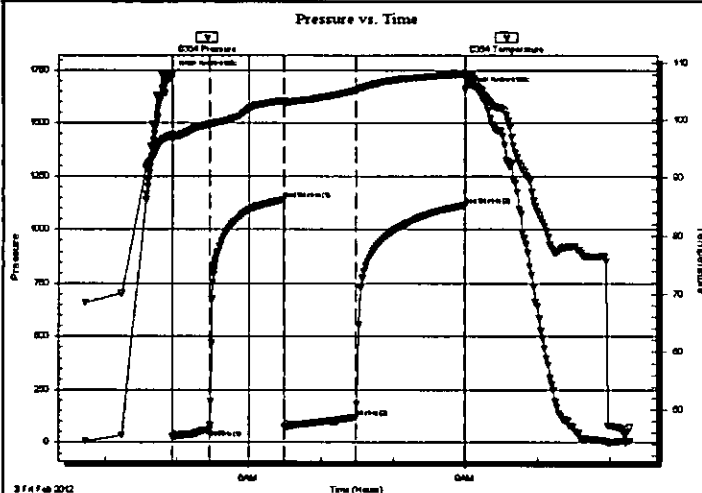
End Time:

11:16:15

Time On Btm: 2012.02.03 @ 04:55:55

Time Off Btm: 2012.02.03 @ 08:59:45

TEST COMMENT: IF-Weak building blow . Built to 10 inches.  
ISI-No Return.  
FF-Weak building blow . Built to 12 inches.  
FSI-No Return.



### PRESSURE SUMMARY

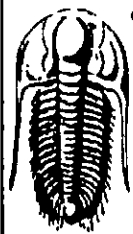
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1732.12	97.47	Initial Hydro-static
1	26.28	96.76	Open To Flow (1)
32	59.90	99.26	Shut-In(1)
93	1139.89	103.30	End Shut-In(1)
94	72.01	103.11	Open To Flow (2)
153	119.41	105.09	Shut-In(2)
244	1113.11	107.97	End Shut-In(2)
244	1656.44	108.16	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
122.00	85%Water/15%Mud	1.71
102.00	5%Oil/95%Mud	1.43

### Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Cobalt Energy LLC

11-12s-19w Ellis, KS

115 S. Belmont #12  
Wichita, KS 67208

Joy Estate #1-11

Job Ticket: 46904

DST#: 5

ATTN: Tim Lauer

Test Start: 2012.02.03 @ 03:33:15

**GENERAL INFORMATION:**

Formation: LKC "G-J"

Deviated: No Whipstock ft (KB)

Time Tool Opened: 04:56:05

Time Test Ended: 11:16:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3555.00 ft (KB) To 3635.00 ft (KB) (TVD)

Reference Elevations: 2142.00 ft (KB)

Total Depth: 3635.00 ft (KB) (TVD)

2131.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8520 Outside

Press@RunDepth: psig @ 3625.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.03

End Date: 2012.02.03

Last Calib.: 2012.02.03

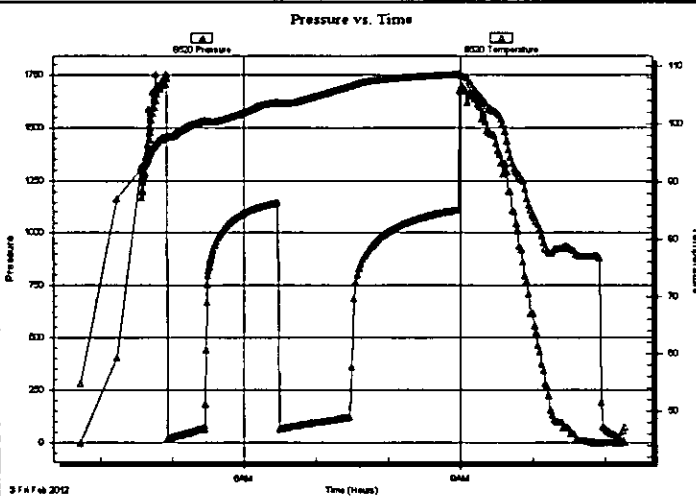
Start Time: 03:43:30

End Time: 11:16:00

Time On Btm

Time Off Btm

TEST COMMENT: IF-Weak building blow. Built to 10 inches.  
ISI-No Return.  
FF-Weak building blow. Built to 12 inches.  
FSI-No Return.



**PRESSURE SUMMARY**

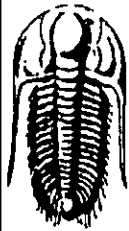
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
122.00	85%Water/15%Mud	1.71
102.00	5%Oil/95%Mud	1.43

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Cobalt Energy LLC

**11-12s-19w Ellis, KS**

115 S. Belmont #12  
Wichita, KS 67208

**Joy Estate #1-11**

Job Ticket: 46904

**DST#: 5**

ATTN: Tim Lauer

Test Start: 2012.02.03 @ 03:33:15

**Tool Information**

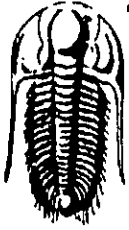
Drill Pipe:	Length: 3547.00 ft	Diameter: 3.80 inches	Volume: 49.76 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 49.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3555.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	103.00 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			3533.00	
Shut In Tool	5.00			3538.00	
Hydraulic tool	5.00			3543.00	
Safety Joint	3.00			3546.00	
Packer	5.00			3551.00	23.00 Bottom Of Top Packer
Packer	4.00			3555.00	
Stubb	1.00			3556.00	
Perforations	5.00			3561.00	
Change Over Sub	1.00			3562.00	
Drill Pipe	62.00			3624.00	
Change Over Sub	1.00			3625.00	
Recorder	0.00	8354	Inside	3625.00	
Recorder	0.00	8520	Outside	3625.00	
Perforations	7.00			3632.00	
Bullnose	3.00			3635.00	80.00 Bottom Packers & Anchor

**Total Tool Length: 103.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Cobalt Energy LLC

11-12s-19w Ellis, KS

115 S. Belmont #12  
Wichita, KS 67208

Joy Estate #1-11

Job Ticket: 46904

DST#: 5

ATTN: Tim Lauer

Test Start: 2012.02.03 @ 03:33:15

**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:

55000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.23 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
122.00	85%Water/15%Mud	1.711
102.00	5%Oil/95%Mud	1.431

Total Length: 224.00 ft

Total Volume: 3.142 bbf

Num Fluid Samples: 0

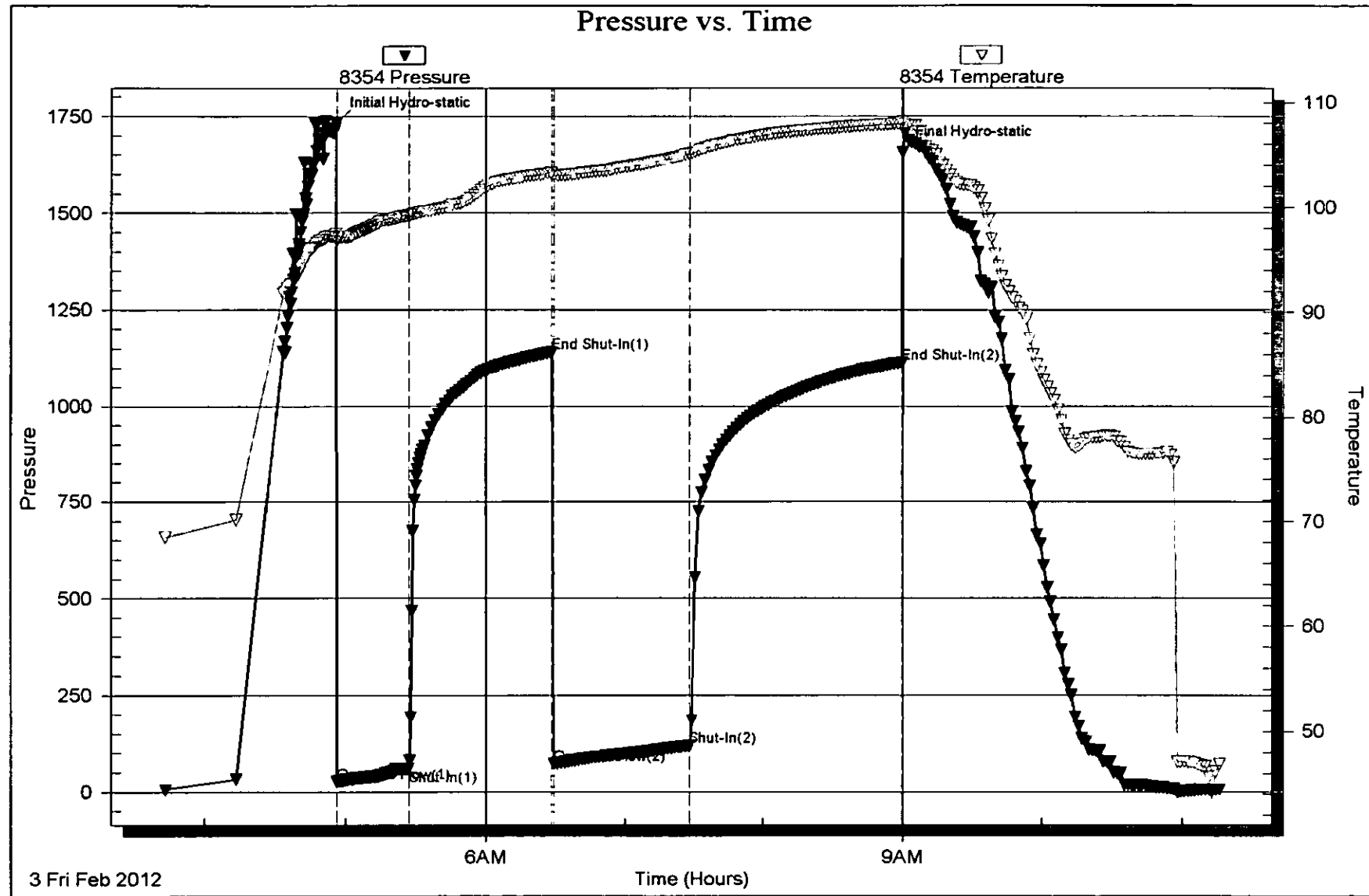
Num Gas Bombs: 0

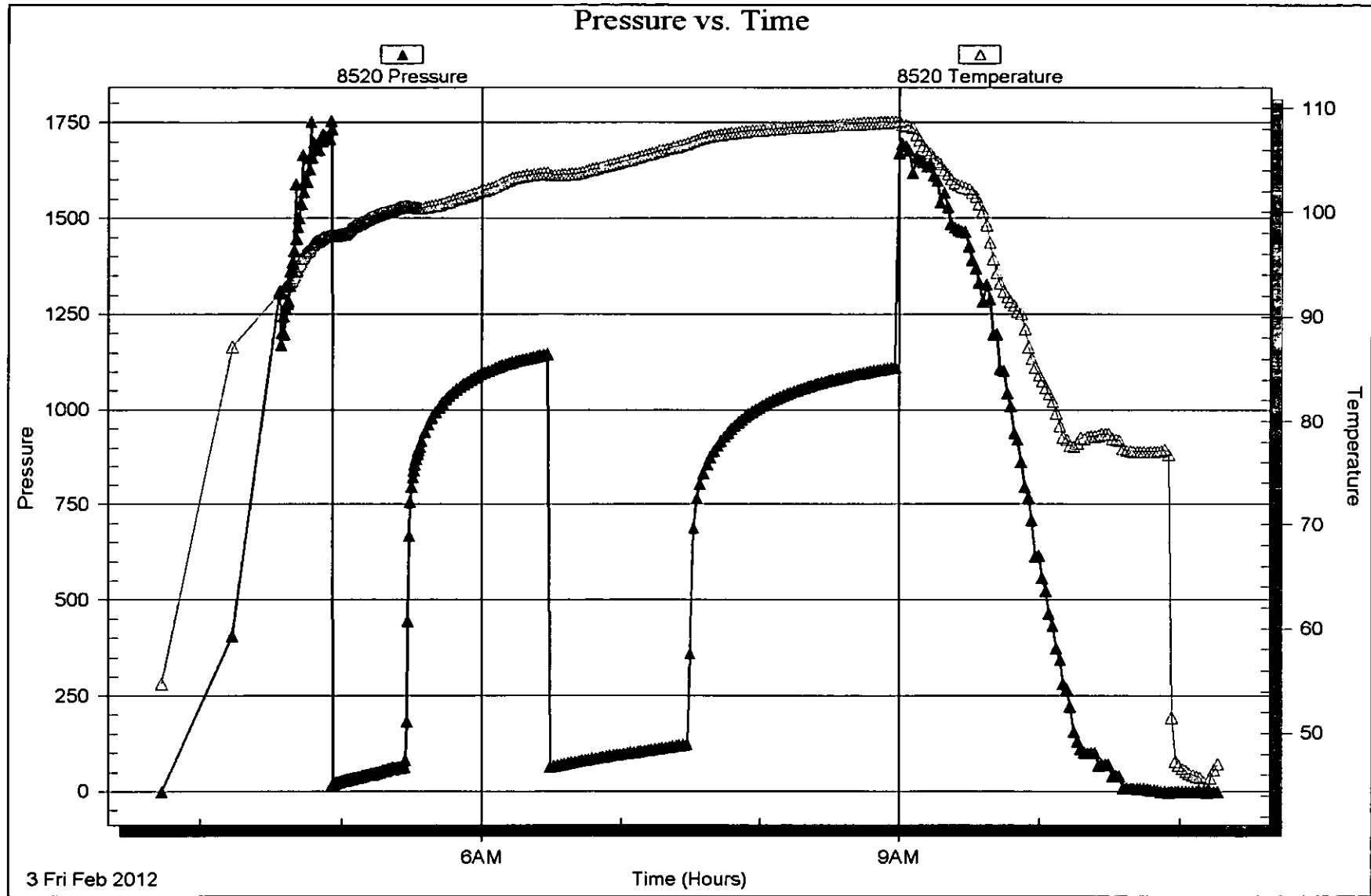
Serial #:

Laboratory Name:

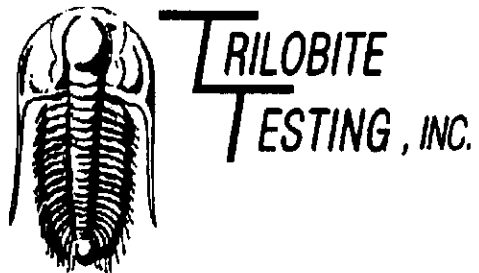
Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S. Belmont #12  
Wichita, KS 67208

ATTN: Tim Lauer

**Joy Estate #1-11**

**11-12s-19w Ellis,KS**

Start Date: 2012.02.03 @ 01:40:30

End Date: 2012.02.03 @ 08:26:00

Job Ticket #: 46905                      DST #: 6

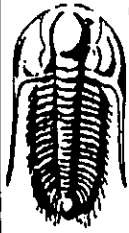
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.06 @ 15:06:19

Cobalt Energy LLC    11-12s-19w Ellis,KS    Joy Estate #1-11    DST # 6    LKC "K-L"    2012.02.03



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Cobalt Energy LLC  
 115 S. Belmont #12  
 Wichita, KS 67208  
 ATTN: Tim Lauer

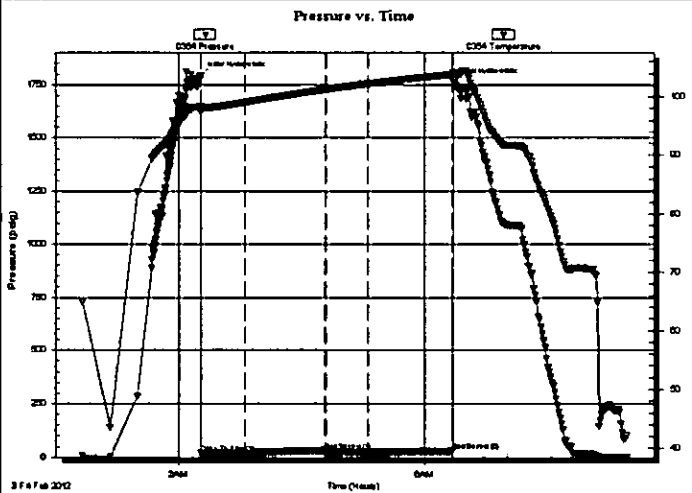
**11-12s-19w Ellis, KS**  
**Joy Estate #1-11**  
 Job Ticket: 46905      DST#: 6  
 Test Start: 2012.02.03 @ 01:40:30

### GENERAL INFORMATION:

Formation: **LKC "K-L"**  
 Deviated: **No Whipstock**      ft (KB)  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Time Tool Opened: **03:16:30**  
 Tester: **Dustin Rash**  
 Time Test Ended: **08:26:00**  
 Unit No: **38**  
 Interval: **3636.00 ft (KB) To 3687.00 ft (KB) (TVD)**  
 Reference Elevations: **2142.00 ft (KB)**  
 Total Depth: **3687.00 ft (KB) (TVD)**  
**2131.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**  
 KB to GR/CF: **11.00 ft**

**Serial #: 8354**      **Inside**  
 Press@RunDepth: **25.70 psig @ 3676.00 ft (KB)**  
 Capacity: **8000.00 psig**  
 Start Date: **2012.02.03**      End Date: **2012.02.03**  
 Last Calib.: **2012.02.04**  
 Start Time: **01:50:30**      End Time: **08:26:00**  
 Time On Btm: **2012.02.03 @ 03:16:20**  
 Time Off Btm: **2012.02.03 @ 06:21:00**

**TEST COMMENT:** IF-Very weak surface blow . Died @ 6 minutes 30 seconds.  
 ISI-No Return.  
 FF-No Blow .  
 FSI-No Return.



### PRESSURE SUMMARY

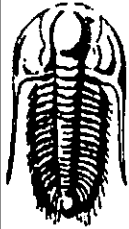
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.29	98.35	Initial Hydro-static
1	22.42	97.40	Open To Flow (1)
33	21.51	99.01	Shut-In(1)
92	32.20	101.22	End Shut-In(1)
92	22.99	101.23	Open To Flow (2)
123	25.70	102.18	Shut-In(2)
184	28.91	103.77	End Shut-In(2)
185	1763.13	103.98	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
3.00	100%Mud	0.04

### 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: Tim Lauer

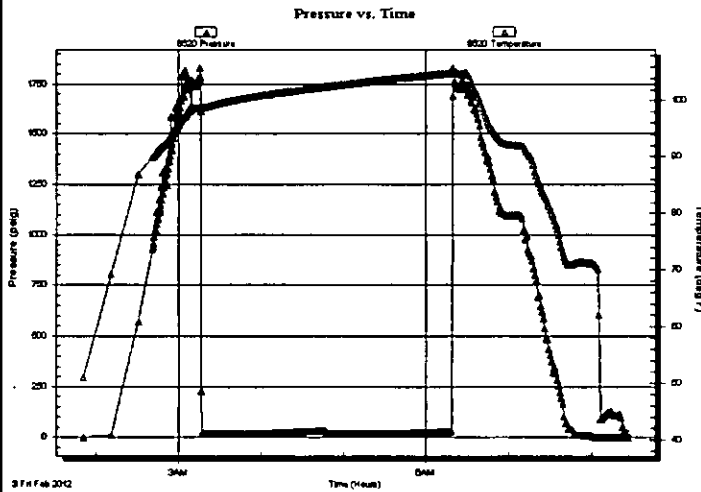
**11-12s-19w Ellis, KS**  
**Joy Estate #1-11**  
Job Ticket: 46905      **DST#: 6**  
Test Start: 2012.02.03 @ 01:40:30

**GENERAL INFORMATION:**

Formation: **LKC "K-L"**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: 03:16:30  
Time Test Ended: 08:26:00  
Test Type: **Conventional Bottom Hole (Initial)**  
Tester: **Dustin Rash**  
Unit No: **38**  
Interval: **3636.00 ft (KB) To 3687.00 ft (KB) (TVD)**  
Reference Elevations: **2142.00 ft (KB)**  
Total Depth: **3687.00 ft (KB) (TVD)**      **2131.00 ft (CF)**  
Hole Diameter: **7.88 inches** Hole Condition: **Poor**      **KB to GR/CF: 11.00 ft**

**Serial #: 8520**      **Outside**  
Press@RunDepth:      psig @ 3676.00 ft (KB)      Capacity:      8000.00 psig  
Start Date:      2012.02.03      End Date:      2012.02.03      Last Calib.:      2012.02.04  
Start Time:      01:51:10      End Time:      08:25:40      Time On Btm:        
Time Off Btm:     

**TEST COMMENT:** IF-Very weak surface blow. Died @ 6 minutes 30 seconds.  
IS- No Return.  
FF- No Blow.  
FS- No Return.



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
3.00	100%Mud	0.04

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy LLC

**11-12s-19w Ellis, KS**

115 S. Belmont #12  
Wichita, KS 67208

**Joy Estate #1-11**

Job Ticket: 46905

**DST#: 6**

ATTN: Tim Lauer

Test Start: 2012.02.03 @ 01:40:30

### Tool Information

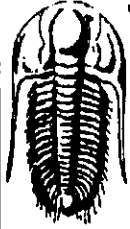
Drill Pipe:	Length: 3642.00 ft	Diameter: 3.80 inches	Volume: 51.09 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 15000.00 lb
			<u>Total Volume: 51.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3636.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3614.00	
Shut In Tool	5.00			3619.00	
Hydraulic tool	5.00			3624.00	
Safety Joint	3.00			3627.00	
Packer	5.00			3632.00	23.00 Bottom Of Top Packer
Packer	4.00			3636.00	
Stubb	1.00			3637.00	
Perforations	5.00			3642.00	
Change Over Sub	1.00			3643.00	
Drill Pipe	32.00			3675.00	
Change Over Sub	1.00			3676.00	
Recorder	0.00	8354	Inside	3676.00	
Recorder	0.00	8520	Outside	3676.00	
Perforations	8.00			3684.00	
Bullnose	3.00			3687.00	51.00 Bottom Packers & Anchor

**Total Tool Length: 74.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Cobalt Energy LLC  
115 S. Belmont #12  
Wichita, KS 67208  
ATTN: Tim Lauer

**11-12s-19w Ellis, KS**  
**Joy Estate #1-11**  
Job Ticket: 46905      **DST#: 6**  
Test Start: 2012.02.03 @ 01:40:30

**Mud and Cushion Information**

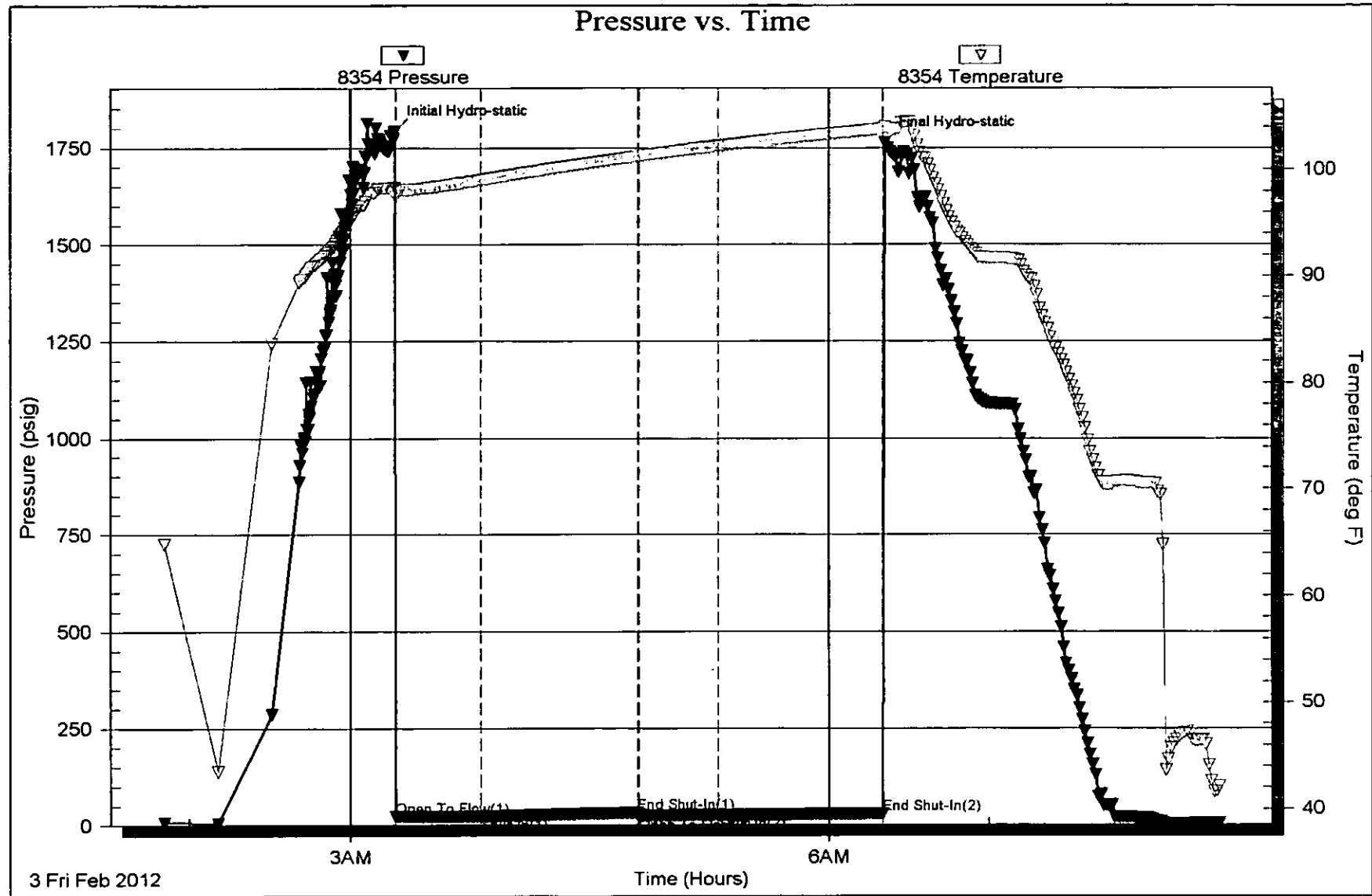
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: inches			

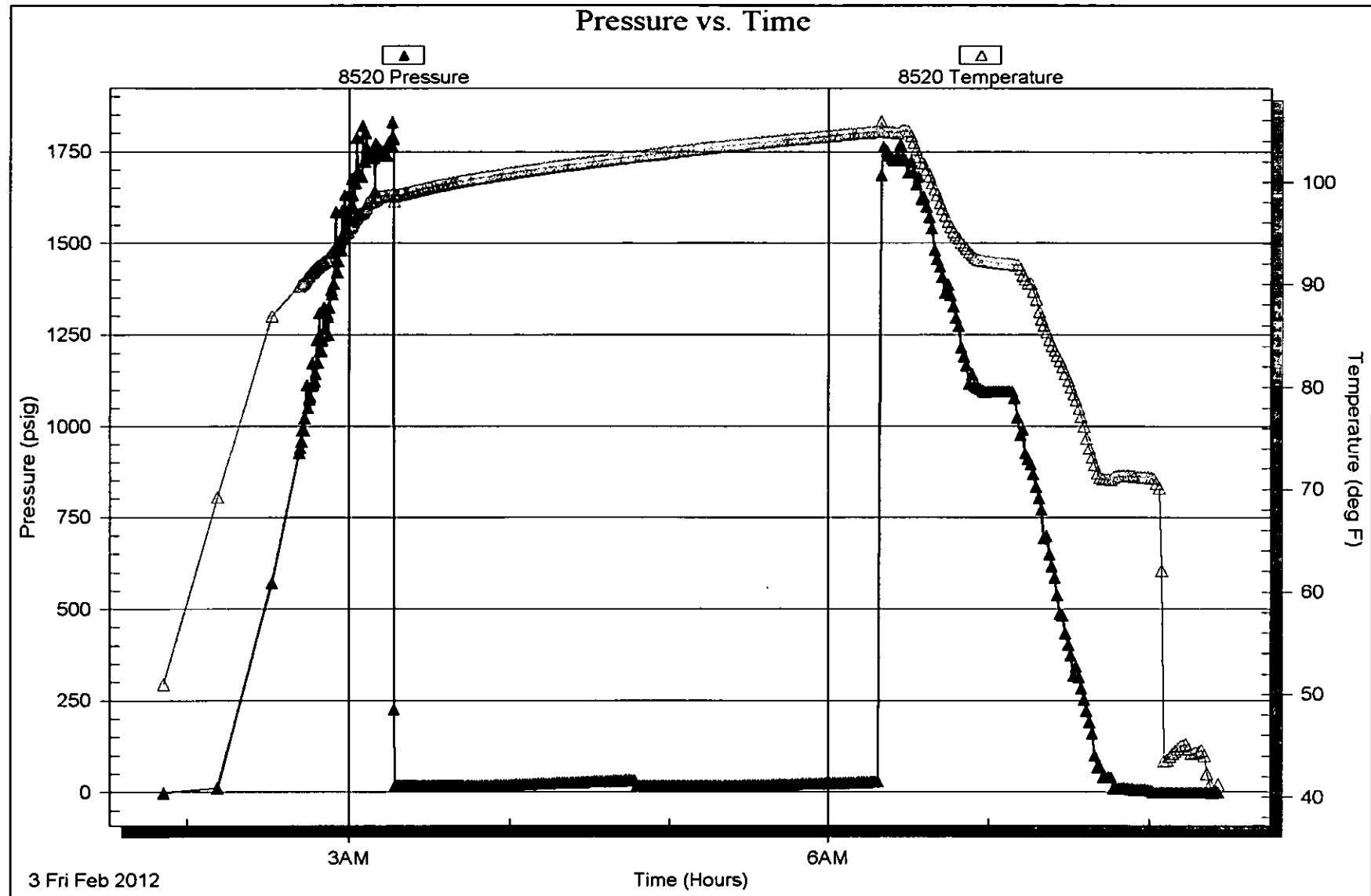
**Recovery Information**

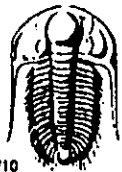
Recovery Table

Length ft	Description	Volume bbl
3.00	100%Mud	0.042

Total Length: 3.00 ft      Total Volume: 0.042 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







# TRIOBITE TESTING INC.

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FEB 03 2012

## Test Ticket

NO. 46375

Well Name & No. Joy Estate #1-11 Test No. 1 Date 1-31-12  
 Company Cobalt Energy LLC Elevation 2142 KB 2131 GL  
 Address 115 S. Belmont #12 Wichita, KS 67208  
 Co. Rep / Geo. Tim Lauer Rig Southwind 1  
 Location: Sec. 11 Twp. 17S Rge. 19W Co. Ellis State KS

Interval Tested 3334-3362 Zone Tested Topeka  
 Anchor Length 28' Drill Pipe Run 3328 Mud Wt. 9.4  
 Top Packer Depth 3329 Drill Collars Run 0 Vis 29  
 Bottom Packer Depth 3334 Wt. Pipe Run 0 WL NC  
 Total Depth 3362 Chlorides 74000 ppm System LCM N:1

Blow Description IF-Weak blow. Built to 3/4 inch. Dedoff to 1/4 inch.  
78F- No Return,  
FF- Weak building blow. Built to 6 inches.  
FST- Slight surface return for 1 minute.

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>Muddy Water</u>		<u>90</u>	<u>10</u>	
<u>120</u>	<u>Muddy Water</u>		<u>70</u>	<u>30</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 185 BHT 112 Gravity 1125 API RW 152 @ 59 °F Chlorides 52000 ppm  
 (A) Initial Hydrostatic 1599  Test  
 (B) First Initial Flow 18  Jars  
 (C) First Final Flow 50  Safety Joint 75  
 (D) Initial Shut-In 1112  Circ Sub  
 (E) Second Initial Flow 51  Hourly Standby  
 (F) Second Final Flow 107  Mileage 13XZ 26RT 36.40  
 (G) Final Shut-In 1068  Sampler  
 (H) Final Hydrostatic 1580  Straddle

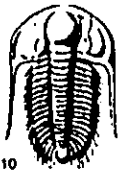
T-On Location 0200  
 T-Started 0345  
 T-Open 0513  
 T-Pulled 0918  
 T-Out 1045  
 Comments BOIT-0238

Initial Open 30  Ruined Shale Packer  
 Initial Shut-In 60  Ruined Packer  
 Final Flow 60  Extra Copies  
 Final Shut-In 90  Extra Recorder  
 Sub Total 1236.40 Total 1236.40  
 MP/DST Disc'l

Approved By \_\_\_\_\_ Our Representative [Signature]

Triobite 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.





# TRIBOLITE TESTING INC.

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FEB 03 2012

## Test Ticket

NO. 46901

Well Name & No. Joy Estate #1-11 Test No. 2 Date 1-31-12  
 Company Cobalt Energy LLC Elevation 2142 KB 2131 GL  
 Address 115 S. Belmont #12 Wichita, KS 67208  
 Co. Rep / Geo. Tim Lauer Rig Southward 2  
 Location: Sec. 11 Twp. 12S Rge. 19W Co. Ellis State KS

Interval Tested 3403-3442 Zone Tested TOLANTO  
 Anchor Length 39' Drill Pipe Run 3389 Mud Wt. 8.8  
 Top Packer Depth 3398 Drill Collars Run 0 Vis 54  
 Bottom Packer Depth 3403 Wt. Pipe Run 0 WI. 6.8  
 Total Depth 3442 Chlorides 3700 ppm System LCM 2#

Blow Description IF - Fair building blow, Built to 7 inches,  
ISI - No Return,  
FF - Weak blow, Built to 3 inches, Died to steady 1/2 inch blow,  
FBI - No Return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>Gassy O.I.</u>	<u>15</u>	<u>85</u>		
<u>120</u>	<u>Muddy Water</u>			<u>70</u>	<u>30</u>
	<u>120' G.I.P.</u>				

Rec Total 190 BHT 107 Gravity 25 API RW 232 @ 27 °F Chlorides 82,000 ppm

(A) Initial Hydrostatic 1658  Test 1125 T-On Location 1915  
 (B) First Initial Flow 25  Jars T-Started 2015  
 (C) First Final Flow 40  Safety Joint 76 T-Open 2122  
 (D) Initial Shut-In 1197  Circ Sub T-Pulled 0125  
 (E) Second Initial Flow 47  Hourly Standby T-Out 0345  
 (F) Second Final Flow 84  Mileage 13X2 26.40 Comments Bar-1949  
 (G) Final Shut-In 1155  Sampler  
 (H) Final Hydrostatic 1587  Straddle  Ruined Shale Packer  
 Shale Packer  Ruined Packer  
 Extra Packer  Extra Copies

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90  
 Sub Total 1236.40 MP/DST Disc't  
 Approved By \_\_\_\_\_ Our Representative D. Rash

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RECEIVED  
FEB 03 2012

## Test Ticket

NO. 46902

Well Name & No. Joy Estate #1-11 Test No. 3 Date 2-1-12  
 Company Cobalt Energy LLC Elevation 2142 KB 2131 GL  
 Address 115 S. Belmont #12 Wichita, KS 67208  
 Co. Rep / Geo. Tim Lauer Rig Southward 2  
 Location: Sec. 11 Twp. 12S Rge. 19W Co. Ellis State KS

Interval Tested 3467-3517 Zone Tested LKC "B-C/D"  
 Anchor Length 50' Drill Pipe Run 3454 Mud Wt. 9.1  
 Top Packer Depth 3462 Drill Collars Run 0 Vis 60  
 Bottom Packer Depth 3467 Wt. Pipe Run 0 WL 6.8  
 Total Depth 3517 Chlorides 3500 ppm System LCM 2#

Blow Description IF - Strong building blow, BOB in 5 minutes,  
JST - No Return,  
FF - Strong building blow, BOB in 9 minutes, 30 seconds,  
FST - No Return,

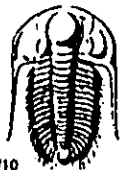
Rec	Feet of	%gas	%oil	%water	%mud
<u>760</u>	<u>Muddy Water</u>			<u>90</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 760 BHT 111 Gravity 1.125 API RW 183 @ 25 °F Chlorides 112,000 ppm  
 (A) Initial Hydrostatic 1678  Test 1125 T-On Location 1630  
 (B) First Initial Flow 41  Jars \_\_\_\_\_ T-Started 1715  
 (C) First Final Flow 178  Safety Joint 75 T-Open 1826  
 (D) Initial Shut-In 1027  Circ Sub \_\_\_\_\_ T-Pulled 2230  
 (E) Second Initial Flow 196  Hourly Standby \_\_\_\_\_ T-Out 0015  
 (F) Second Final Flow 397  Mileage 13X2 36.40 Comments BHT-1656  
 (G) Final Shut-In 994  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1683  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90  
 Sub Total 1236.40  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative D. Rosh

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# TRILOBITE TESTING INC.

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BY: \_\_\_\_\_

## Test Ticket

NO. 46903

Well Name & No. Joy Estate # 1-11 Test No. 4 Date 2-2-12  
 Company Cobalt Energy LLC Elevation 2142 KB 2131 GL  
 Address 115 S. Belmont #12 Wichita, KS 67208  
 Co. Rep / Geo. Tim Laurer Rig Southwind 1  
 Location: Sec. 11 Twp. 12S Rge. 19W Co. Ellis State KS

Interval Tested 3516-3541 Zone Tested LKC "E-F"  
 Anchor Length 25' Drill Pipe Run 3513 Mud Wt. 9.0  
 Top Packer Depth 3511 Drill Collars Run 0 Vis 49  
 Bottom Packer Depth 3516 Wt. Pipe Run 0 WL 7.4  
 Total Depth 3541 Chlorides 4100 ppm System LCM 2#

Blow Description FF - Very weak surging 1/4 inch blow,  
IST - No Return,  
FF - No Blow,  
FST - No Return.

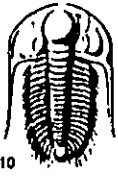
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Muddy Water</u>			<u>50</u>	<u>50</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 106 Gravity 1.125 API RW 356 @ 62 °F Chlorides 27000 ppm  
 (A) Initial Hydrostatic 1706  Test 1125 T-On Location 0645  
 (B) First Initial Flow 26  Jars T-Started 0800  
 (C) First Final Flow 29  Safety Joint 75 T-Open 0940  
 (D) Initial Shut-In 1005  Circ Sub T-Pulled 1245  
 (E) Second Initial Flow 28  Hourly Standby T-Out 1445  
 (F) Second Final Flow 31  Mileage 13X2 36<sup>40</sup> Comments Best-0714  
 (G) Final Shut-In 998  Sampler  
 (H) Final Hydrostatic 1649  Straddle

Initial Open 30  Shale Packer  Ruined Shale Packer  
 Initial Shut-In 60  Shale Packer  Ruined Packer  
 Final Flow 30  Extra Packer  Extra Copies  
 Final Shut-In 60  Extra Recorder  Sub Total 0  
 Day Standby  Total 1236.40  
 Accessibility  MP/DST Disc't  
 Sub Total 1236.40

Approved By \_\_\_\_\_ Our Representative D. Rash

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## Test Ticket

NO. 46904

Well Name & No. Joy Estate # 1-11 BY: \_\_\_\_\_ Test No. 5 Date 2-3-12  
 Company Cobalt Energy LLC Elevation 2142 KB 2131 GL  
 Address 115 S. Belmont #12 Wichita KS 67208  
 Co. Rep / Geo. Tim Lauer Rig Southwind 1  
 Location: Sec. 11 Twp. 12S Rge. 19W Co. ELLIS State KS

Interval Tested 3555-3635 Zone Tested LKC "G-J"  
 Anchor Length 80' Drill Pipe Run 3547 Mud Wt. 9.0  
 Top Packer Depth 3550 Drill Collars Run 0 Vis 49  
 Bottom Packer Depth 3555 Wt. Pipe Run 0 WL 7.4  
 Total Depth 3635 Chlorides 4400 ppm System LCM 2#

Blow Description IF - Weak building blow, Built to 10 inches,  
IST - No Return,  
FF - Weak building blow, Built to 12 inches,  
FST - No Return,

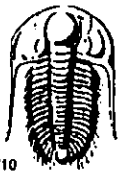
Rec	Feet of	%gas	%oil	%water	%mud
<u>102</u>	<u>Feet of SOGM</u>	<u>5</u>		<u>95</u>	
<u>122</u>	<u>Feet of Muddy Water</u>		<u>85</u>	<u>15</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 224 BHT 108 Gravity \_\_\_\_\_ API RW 1226 @ 92 °F Chlorides 55000 ppm  
 (A) Initial Hydrostatic 1732  Test 1125 T-On Location 0230  
 (B) First Initial Flow 26  Jars \_\_\_\_\_ T-Started 0345  
 (C) First Final Flow 60  Safety Joint 75 T-Open 0457  
 (D) Initial Shut-In 1140  Circ Sub \_\_\_\_\_ T-Pulled 0900  
 (E) Second Initial Flow 72  Hourly Standby \_\_\_\_\_ T-Out 1115  
 (F) Second Final Flow 119  Mileage 13X2 36<sup>40</sup> Comments Bart-0333  
 (G) Final Shut-In 1113  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1656  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90  
 Sub Total 1236<sup>40</sup>  
 Total 1236<sup>40</sup>  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1236<sup>40</sup>

Approved By \_\_\_\_\_ Our Representative D. Rash

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
FEB 06 2012

## Test Ticket

NO. 46905

Well Name & No. Joy Estate # 1-11 Test No. 6 Date 2-3-12  
 Company Cobalt Energy LLC Elevation 2142 KB 2131 GL  
 Address 115 S. Belmont #12 Wichita, KS 67208  
 Co. Rep / Geo. Tim Lauer Rig Southwind I  
 Location: Sec. 11 Twp. 12S Rge. 19W Co. Ellis State KS

Interval Tested 3636-3687 Zone Tested LKC "K-L"  
 Anchor Length 51' Drill Pipe Run 3642 Mud Wt. 9.2  
 Top Packer Depth 3631 Drill Collars Run 0 Vis 45  
 Bottom Packer Depth 3636 Wt. Pipe Run 0 WL 6.4  
 Total Depth 3687 Chlorides 5500 ppm System LCM 7#

Blow Description IF - Very weak surface blow. Died @ 6 minutes 30 seconds.  
TEST - No Return.  
FF - No Blow.  
FST - No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</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 3 BHT 1.04 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1791  Test 1125' T-On Location 2345  
 (B) First Initial Flow 22  Jars T-Started 0145  
 (C) First Final Flow 22  Safety Joint 75' T-Open 0317  
 (D) Initial Shut-In 32  Circ Sub T-Pulled 0620  
 (E) Second Initial Flow 23  Hourly Standby T-Out 0830  
 (F) Second Final Flow 26  Mileage 13X2 36<sup>40</sup> Comments BOBT-0140  
 (G) Final Shut-In 29  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1763  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_

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

Sub Total 1236<sup>40</sup> Total 1236<sup>40</sup>  
 MP/DST Disc'X [Signature]

Approved By \_\_\_\_\_ Our Representative \_\_\_\_\_

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