



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



1075889

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ 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: Yes No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	Joy Estate 'A' 1-11
Doc ID	1075889

Tops

Name	Top	Datum
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

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

Tim J. Lauer

Petroleum Geologist

Office 316.832.0530
Cell 316.253.1275

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

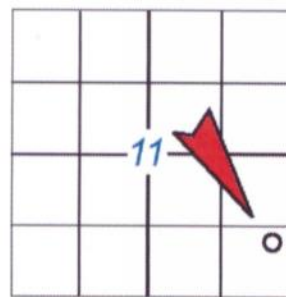
CONDUCTOR _____
SURFACE 8-5/8" @ 244'
PRODUCTION none

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: Daylon 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

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

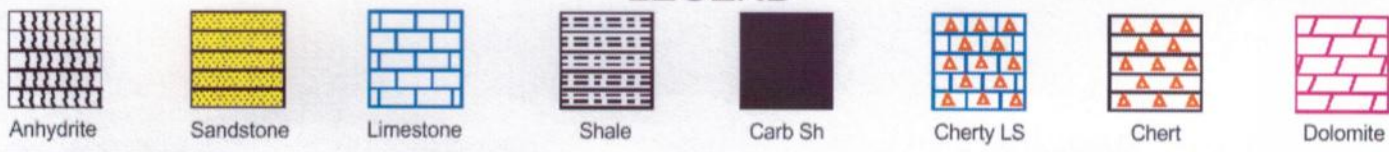


REMARKS _____
Due to drill stem test results, and log evaluation, operator elected to plug and abandon the location.

Respectfully submitted,

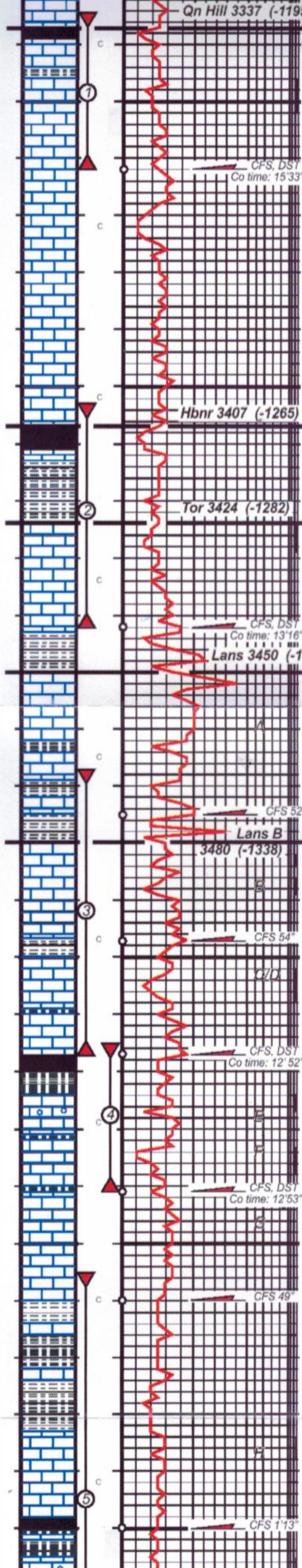
Tim J. Lauer
2/5/2012

LEGEND



LITHOLOGY	DRILL STEM TESTS	DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases	DEPTH	SAMPLE DESCRIPTION	REMARKS
		5 10 15	3100	Ls; crm-gry, some gry-brn, mott IP, micro-fnxln, foss, 1/10 mly txt, dns., sca fr IXLN por., NS, no flor., n. str, n. odor	SPUD 5:00 PM 1-27-2012 RTD 5:35 PM 2-4-2012

LITHOLOGY	MINUTES PER FOOT Rate of Penetration Decreases →	DEPTH	SAMPLE DESCRIPTION	REMARKS
		3100	Ls; crm-gry, some gry-brn, mott IP, micro-fnxln, foss, 1/10 mly txt, dns., sca fr IXLN por., NS, no flor., n. stn, n. odor	SPUD 5:00 PM 1-27-2012 RTD 5:35 PM 2-4-2012
		3140	Sh; med-drk.gry, mica IP, silty, gritty txt.	"BIT RECORD" 1.) Reed S52 (New) Under Surface to 3820' RTD
		3180	Sh; med-drk.gry, AA, occ gm-gry.	"VERTICAL SURVEYS" 1/2" @ 246' 1" @ 3362' 1 1/2" @ 3820'
		3170	Ls; dk.gry-brn., mott, most. micro-mdxln, foss, (fusilin) scat gran-rgh txt, dns., pr. vis por., NS, some crm-tan, micro-fnxln, scat fr IXLN por, NS, no flor., n. stn, n. odor	1-27-2012 - MIRT, RURT Prep to set Surf Csg. 1-28-2012 - 7:00 AM Drlg @ 259' set 8-5/8" @ 289'
		3180	Sh; med-drk.gry, AA.	1-29-2012 - 7:00 AM Drlg @ 2040'
		50	Topk 3173 (-1031)	1-30-2012 - 7:00 AM Drlg @ 2880'
		3190	Ls; mostly bf-gry, some mott drk.gry, micro-fnxln, dns., pr vis por, NS, scat pcs. fnxln, w/mly txt, pr IXLN por, NS, no flor., n. stn, n. odor	1-31-2012 - 7:00 AM PTD @ 3362' Running DST (1)
		3200	Ls; md-dk.gry, crypto-vfnxln, most dns, sharp IP, pr. por., NS, occ brn, fn-mdxln, s. foss, dns, NS, n. flor, n. stn., no odor.	2-1-2012 - 7:00 AM Drlg @ 3445'
		3220	Ls; most crm-lt.gry., vfn-fnxln, softer, 1/3 mealy txt, scat fr-occ gd IXLN por, NS, n. flor, n. stn, no od.	2-2-2012 - 7:00 AM PTD @ 3541' COOH to start DST (4)
		3230	Ls; crm-gry- tan, micro-fnxln, becom dns, most pr. por., NS, occ brn, fn-mdxln, s. foss, dns, NS, n. flor, n. stn., no odor.	2-3-2012 - 7:00 AM PTD @ 3635' Running DST (5)
		3240	Sh; med-drk.gry, blk., gritty.	2-4-2012 - 7:00 AM PTD @ 3687' COOH with DST (6)
		3250	Ls; incr bf-gry, scat dk.gry, mott IP, micro-vfnxln, crinkl'd-mly txt, scat fr IXLN por., NS, n. flor, n. stn., n. odor.	2-5-2012 - 7:00 AM RTD @ 3820'
		3260	Ls; incr bf-tan, s.mott brn, becom fn-mdxln, mly-rgh txt., scat pcs softer, occ fr IXLN por, NS, n. flor, n. stn, n. od.	Ran Pioneer OH RAG Log Plug and Abd. Location
		3270	Ls; crm-bf-gry, some mott drk gry., vfn-fnxln, 1/4 mly txt, s. foss., pr-occ fr IXLN por, NS, n. stn, n. odor.	Geologist on location 3120'
		3280	Ls; inc. gry-dk.gry, mott., vfn-mdxln., most dns, NS, scat mealy txt, pr IXLN por., NS, n. flor, n. stn., n. odor..	
		3290	Ls; crm-tan-lt.gry, fn-mdgrdxln, softer, 1/3 mly-gran txt, fr-gd IXLN & IG por., NSFO, NSG, n. flor, n. live stn, scat gilson flakes, (n. cut), n. detect odor.	
		3290	Ls; AA, soft, mly-gran txt, 1/2 fr-gd IXLN & IG por., NSFO, NSG, n. flor, scat gilson stn, n. cut, n. odor	Mud Check at 3362: (After displace and initial mud-up) vis: 54 wt: 8.8 Chlor: 3,700 LCM: 2# Ph: 11.0 WL: 6.8 (finish displacement @ 3020')
		3300	Sh; md-dk.gry vcol gm blk carb Sh; med-drk.gry, sli. vcol, gritty, some dk gry ls; mott, vfn-fnxln, dns, pr por. NS.	20 Stand Short Trip at 3362' pulled tight first 7 stands off bottom
		3310	Ls; gry-drk.gry-tan, micro-vfnxln, most dns., foss (fusilin) scat fnxln, w/mealy text, softer, s. chalky IP, pr-fr IXLN por, NSFO, NSG, n. flor, n. stn, n. cut, n. det od.	Pipe Strap on DST (1) Board: 3371.85' Strap: 3371.44' Diff: 0.41' short
		3300	Ls; crm-wht-bf, micro-vfnxln, most dns, comp, scat fnxln, scat mealy text, OA pr vis por, NS, n. flor, n. stn, n. odor.	
		3320	Ls; AA, most dns, scat chalk, wht, soft, fr IXLN por, NS, scat Chl; crm-wht, sharp, fresh, pr por, NS, n. oil flor, scat dull minrl flor, n. cut, n. stn., n. odor.	
		3330	Ls; crm-gry, mott gry-brn, micro-mdxln, dns, pr. por., NS, n. odor.	
		3340	Sh; med-drk.gry, scat blk, vcol gm-gry.	DST (1) 3334'-3362' 30-60-60-90 Blow: weak, built to 3/4" decr to 1/4" no blowback on ISIP. weak-fair, built to 6" on FFP. weak surface blowback for 1" on FSIP
		3350	Ls; crm-gry; mott drk gry, micro-fnxln, crinkl'd-scat mealy txt, s. foss, dns, pr. por, NS, n. flor., n. stn, n. odor.	65' MW (0% gas, 0% oil, 10% mud, 90% wtr) 120' MW (0% gas, 0% oil, 30% mud, 70% wtr) 185' Tot. Fluid
		50	Sh; med-drk.gry, blk, carb, vcol gm-gry. Ls; gry-drk gry, most. micro-fnxln, dns, scat mealy txt., pr-IXLN por, NS, n. flor., n. stn, n. odor.	IHP: 1599 FFP: 51-107 IEP: 50.112 ESIP: 1068
		50	Qn Hill 3337 (-1195)	
		3360	(3346-52) Ls; crm-gry-drk gry, mott brn-blk (stn), sli.foss., micro-occ mdxln, most dns, 1/10 pr-occ fr IXLN por, pr-fr vug & ppt por, 5%S-FSFO(drk, filmy) NSG, wk patchy flor, patchy-sat drk brn-blk stn, fr-gd stream'g-flash cut, ft? od.	



Qn Hill 3337 (-1195)
 3350 Sh; med-drk gry, blk, carb, vcol gm-gry.
 Ls; gry-drk gry, most micro-fnxln, dns, scat mealy txt., pr-IXLN por, NS, n. flor., n. stn, n. odor.

50 (3346-52) Ls; crm-gry-drk gry, mott brn-blk (stn), sli. foss., micro-occ mxln, most dns, 1/10 pr-occ fr IXLN por, pr-fr vug & ppt por, 5% S-FSFO (drk, filmy) NSG, wk patchy flor., patchy-sat drk brn-blk stn, fr-gd stream'g-flash cut, fr? od. (3352-68) Ls; most crm-lt gry, some gry-brn, mott, micro-fnxln, most dns, scat mealy text w/pr IXLN por, sharp decr vug and ppt por, NSFO, NSG, n. flor, n. stn, n. detect odor, some white chalk, fr IXLN por, NS.
 Ls; bf, some tan, micro-fngrdxln, soft, 1/2 mealy-gran text, pr-fr IXLN por, NSFO, NSG, n. flor, n. stn, some wht chalk, soft, fr IXLN por, NS, few pcs AA w/foss moldic and vug por, SFO (slough), intrvl exhibits no odor.

3400 Ls; 2/3 crm-bf, micro-fnxln, spkld brn (gilson stn) pr-occ fr IXLN por, soft IP, NSFO, NSG, n. flor, n. live stn, n. cut, 1/3 lt-md.gry, microxln, dns, comp, crinkl'd-occ mealy text, pr por, NS, occ chalk, wht, soft, NS, intrvl exhibits no odor.

3410 Ls; crm-bf, some gry, AA, decr mealy txt, scat pr IXLN por., NS, n. flor, n. live stn, scat gilson?, n. cut, n. odor.

Hbnr 3407 (-1265)
 3420 Sh; med-drk gry, blk, carb, NSGB.
 Ls; drk gry, micro-fnxln, dns pr por, NS, n. vis stn, n. odor.

3430 Sh; med-drk. AA.

Tor 3424 (-1282)
 3440 (3424-29) Ls; crm-buff, some gry, scat brn/blk (stn) micro-fnxln, most dns, comp, NS, 10% mealy txt w/fr-gd IXLN por., fr-occ gd vug & ppt por, 5% S-FSFO, SSG, 5% wk yell flor, patchy-most satur stn., fr-gd flash cut w/o brk, fair-wk od. (3429-43) Ls; crm-wht, becom crypto-microxln, dns, decr por, sharp, NS, trc pcs (slough?) w/pr, SSFO, NSG, wk flor, brn stn, n. det odor, scat Cht, wht, spic, transluc-opaq, fresh, n. vis por, NS.
 Sh; med-drk gry, vcol gm-gry, yell-red, trc purple, blk, carb IP, pyritic IP

Lans 3450 (-1308)
 50 (3450-62) Ls; crm-gry, some buff, mostly micro-fnxln, dns., occ fn-mdxln, mly-gran txt., pr-occ fr IXLN por, NSFO, NSG, n. flor, n. vis stn., n. detect odor.

3470 Sh; med-drk gry, vcol gm, red-brn.
 (3464-69) Ls; most crm, some lt-md.gr, micro-fnxln, crinkl'd-occ mealy txt, most dns, pr vis por, NS, n. flor, stn, or odor.

3475 Sh; med-drk gry, vcol gm, rd.
 (3472-78) Ls; most lt-md.gry, mott drk gry, foss IP, micro-fngrdxln, most dns, 1/4 mealy-occ gran txt, pr IXLN por, NSFO, n. flor, trc gilson stn (n. cut) n. live stn, n. det, odor.

Lans B 3480 (-1338)
 50 (3480-89) Ls; crm-bf, sm md-dk gry, scat brn (stn), most micro-fnxln, dns, pr por, NS, 1/5 micro-crsgrdxln, s.foss, (ool, mly-gran txt, most pr-fr IXLN por, 5% fr-gd IXLN, vug, foss moldic & ppt por, same 5% VS-SSFO, trc SGB, scat dull yell flor, 5% patchy-occ sat lt brn, occ brn/blk stn, wk cut w/o brk, same when crush'd, fr sharp odor when broken.
 (3489-97) Ls; crm-gry, decr drk gry, micro-mdxln, sli. foss, crinkl'd-mealy txt., most dns, scat pr IXLN por, NSFO, NSG, n. flor, n. stn., n. detect. od.

3500 (3500-07) Ls; crm-bf, some gry, micro-mdxln, foss, pelloids most dns, 1/10 mealy-gran txt, pr-fr IXLN & IG por, pr-fr vug por, some barren por, scat pcs SSptFO, NSG, scat dull flor, 3% spk'd-patchy drk brn stn, wk milky cut, (lt brn oil in dish) same when crush'd, wk-fr. od in 3517 spl.
 (3507-17) Ls; crm-wht, some buff, micro-fnxln, most comp, dns, decr foss, decr por, sharp IP, OA pr vis por, NS, n. flor, stn, or odor, shaley IP, scat blk carb shale, vcol gm & red. (3517-24) Sh; drk gry, blk, carb, scat vcol red, gm.
 (3524-31) Ls; crm-bf, patchy brn(stn) most micro-fnxln, dns, NS scat md-crsgrdxln, s.foss (oolitic) mly-gran txt, scat fr-gd IXLN & ppt por, scat SSFO (dk brn), NSG, patchy md flor., gd patchy-occ sat stn, fr ribbon cut, fr-gd cut crush'd, wk od. (3532-38) Ls; crm-wht, scat dk brn (stn) most micro-fnxln, dns, scat fr-crsgrdxln, gran-rgh text, scat fr-gd IXLN & IG por, fr-gd vug por, 5% S-FSdrkFO, trc SGB, 5% md-brt flor, patchy-satur dk brn stn, fr-gd stream'g cut w/o brk, same crush'd, wk od. (3538-40) Ls; crm-bf, AA, most micro-fnxln, decr gran txt, decr por, NSFO, n. flor, stn, or odor.

50 (3540-46) Ls; crm-lt gry, sm. buff, micro-vfnxln, scat pcs mly txt, most comp, dns, pr vis por, NS, n. odor.
 (3546-52) Ls; crm-lt gry, sm. tan, micro-fnxln, scat mly txt, pr vis por, NSFO, NSG, n. flor, n. live stn, scat blk spk'd gilson stn, (n. cut) n. det. odor.
 (3552-60) Ls; crm-lt gry, AA, micro-fnxln, scat mly txt, pr por, NS, n. flor, n. stn, scat cht, gry-tan, transluc, spic, fresh, NS (3560-74) Sh; med-drk., abund blk, carb, strong, vcol red, gm, platy-fiss, some Ls. drk gry-blk, vfn-mdxln, 1/5 mealy-rgh txt, dns, dirty IP, pr por, NS, n. flor, n. stn., n. odor.

3590 Sh; med-drk., vcol blk, carb, red, gm.

3600 (3583-90) Ls; most crm-bf, trc brn-blk (stn) micro-fnxln, dns, sli. foss, pr por, NS, scat vfn-mdgrdxln, gran txt, pr-fr IXLN & IG por, trc (1-2 pcs per tray) SSFO (crush'd), NSG, trc. flor, trc pcs brn-blk stn, wk-fr cut when crush'd, some Ls; crm-md.gry, vfn-fnxln, foss, dns, pr por, NS, intrvl has n. det odor (3590-3600) Ls; bf-crm-gry, micro-occ fnxln, scat mealy txt, dns, pr por, NS, scat cht, tan, fresh, n. por, NS, sm blk sh.

3600 Sh; med-drk gry, vcol AA., scat Ls; drk gry, fnxln, NS
 (3605-10) Ls; crm-bf, some lt gry, occ brn (stn), micro-fnxln.

weak-fair, built to 6" on FFP, weak surface blowback for 1" on FSIP

65' MW
 (0% gas, 0% oil, 10% mud, 90% wtr)

120' MW
 (0% gas, 0% oil, 30% mud, 70% wtr)

185' Tot. Fluid

IHP: 1599 FFP: 51-107
 IFP: 50-112 FSIP: 1068
 ISIP: 1112 FHP: 1580

Temp: 112°F

Chlorides MUD: 3,700 PPM
 DST: 52,000 PPM

Rw = 0.152 Ohms @ 59°F
 Gravity of oil: NA

Both Shut-in curves broken over

DST (2) 3403'-3442'
30-60-60-90
 Blow: good, built to 7" on IFP, no blowback on ISIP; fair, built to 3" decr to 1/2" on FFP, no blowback on FSIP

120' G.I.P.
70' GO
 (15% gas, 85% oil, 0% mud, 0% wtr)

120' MW
 (0% gas, 0% oil, 30% mud, 70% wtr)

190' Tot. Fluid

IHP: 1658 FFP: 47-84
 IFP: 25-40 FSIP: 1155
 ISIP: 1197 FHP: 1587

Temp: 107°F

Chlorides MUD: 3,500 PPM
 DST: 82,000 PPM

Rw = 0.232 Ohms @ 27°F
 Gravity of oil: 25°

Both Shut-in curves broken over

Mud Check at 3442:
 vis: 60 wt: 9.1 Chlor: 3,500
 LCM: 2# Ph: 10.5 WL: 6.8

DST (3) 3467'-3517'
30-60-60-90
 Blow: strong, BOB in 5" on IFP, no blowback on ISIP; strong, BOB in 9 1/2" on FFP, no blowback on FSIP

760' MW
 (0% gas, 0% oil, 10% mud, 90% wtr)

IHP: 1678 FFP: 196-397
 IFP: 41-178 FSIP: 994
 ISIP: 1027 FHP: 1683

Temp: 111°F

Chlorides MUD: 3,500 PPM
 DST: 112,000 PPM

Rw = 0.183 Ohms @ 25°F
 Gravity of oil: NA

Both Shut-in curves broken over

Mud Check at 3541:
 vis: 49 wt: 9.0 Chlor: 4,100
 LCM: 2# Ph: 10.0 WL: 7.4

DST (4) 3516'-3541'
30-60-30-60
 Blow: wk (1/4") surging blow on IFP, no blowback on ISIP; no blow on FFP, no blowback on FSIP

20' MW
 (0% gas, 0% oil, 50% mud, 50% wtr)

IHP: 1706 FFP: 28-31
 IFP: 26-29 FSIP: 998
 ISIP: 1005 FHP: 1649

Temp: 106°F

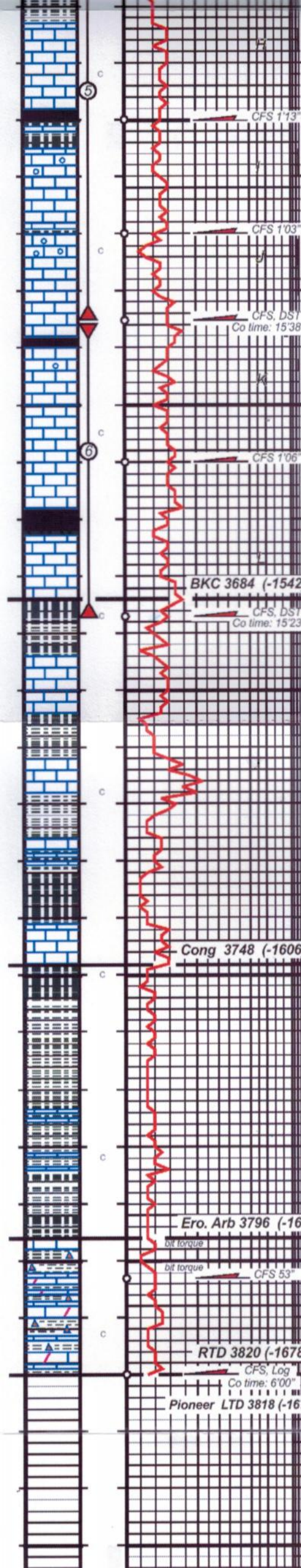
Chlorides MUD: 4,100 PPM
 DST: 22,000 PPM

Rw = 0.356 Ohms @ 62°F
 Gravity of oil: NA

Both Shut-in curves broken over

Mud Check at 3635:
 vis: 45 wt: 9.2 Chlor: 5,500
 LCM: 1# Ph: 10.5 WL: 6.4

DST (5) 3551'-3600'



(3583-90) Ls; most crm-bf, trc brn-blk (stn) micro-fnxln, dns, sli. foss, pr por, NS, scat vfn-mdgrdxln, gran txt, pr-fr IXLN & IG por, trc (1-2 pcs per tray) SSFO (crush'd), NSG, trc. flor, trc pcs brn-blk stn, wk-fr cut when crush'd, some Ls; crm-md.gry, vfn-fnxln, foss, dns, pr por, NS, intrvl has n. det odor (3590-3600) Ls; bf-crm-gry, micro-occ fnxln, scat mealy txt dns, pr por, NS, scat cht,tan, fresh, n. por, NS, sm blk sh.

3600 Sh; med-drk. gry, vcol AA., scat Ls; drk gry, fnxln, NS

(3605-10) Ls; crm-bf, some lt.gry, occ brn (stn), micro-fnxln, most dns, s. foss (subool), scat fr-mdgrdxln, mly-gran txt, pr fr IXLN por, scat interool por, scat pcs (2-3 per tray) SSFO, when crush'd, NSG, same pcs med yell flor, patchy brn stn, wk-fr ribbon cut w/o brk, same crush'd, wk od. (15" circ. spl)

3610-19) Ls; crm-bf, AA, microxln, decr foss, pyritic IP, scat mealy txt, pr por, NSFO, NSG, n. flor, stn, or odor.

(3620-25) Ls; crm-gry, scat brn-blk (stn) micro-mdxln, foss ool, most dns, scat mly-gran txt, 1/10 pr-fr IXLN por, scat gd interool por, fr-gd oomold por, 3%SSFO(crush'd) NSG, 3%w/ yell flor, patchy-occ sat dk.stn, pr-fr stream g cut w/o brk, 1 pg gd flash cut, intrvl has wk odor, most oomold por is barren.

(3625-38) Ls; most crm scat brn-blk (stn), micro-mdxln, decr ool and oom por, scat pcs w/pr-occ. fr IXLN, pr IG por, occ vugs, scat pcs (2-3 per tray) w/SSFO(crush'd), NSG, same pcs w/flor and spl'd-patchy drk stn, cut AA, n. det odor.

Sh; med-drk.gry, grn-gry, gm, some blk, carb.

(3640-44)Ls; crm-gry, bf-tan, most micro-fnxln, crinkl'd-mly txt, sli foss, (ool), dns, pr por, NS, scat pcs. pr-occ fr IXLN por, trc interool & oom por, trc (2 pcs) VSSFO, NSG, scat minri flor, n. cut, scat pcs w/patchy stn, wk cut, n det. odor

(3644-60) Ls; crm-gry, s. mott md.gry, micro-fnxln, non-foss, decr por, NS, scat tan cht, fresh, shrp, n. flor, n. stn, n. odor

Ls; crm-gry-dk.gry, mott, micro-fnxln, dns, scat mly txt, pr por, NS, n. flor, n. stn, n. odor

Sh; med-drk. gry, blk, carb, platy, strong vcol, AA.

(3673-80) Ls; crm-buff-gry, micro-fnxln, most dns, scat mealy bt w/pr IXLN por, NSFO, NSG, n. flor, stn, or odor.

Ls; becom lt-md.gry, some mott dk.gry, micro-fnxln, sli. ool, dns, shrp IP, OA pr vis por, NS, n. flor, n. stn, n. det odor.

Sh; med-drk. gry, blk, carb, platy, strong vcol, gm, red-brm.

Ls; buff-gry-crm, micro-fnxln, reworked, broken, most dns scat pcs w/pr IXLN por., NS, n. flor, n. stn, n. odor.

Sh; med-drk. gry. vcol, gm, occ. maroon, brick red, blk.

Ls; lt.gry-crm, crypto-mdxln, s. foss, s. glauc., most dns scat pcs w/pr IXLN por., NS, n. flor, n. stn, n. odor.

Shly Ls; med-drk.gry, micro-fnxln, argill IP, mealy, pr vis por, NS, n. flor, n. stn., n. det. odor, abund Sh; vcol AA.

Sh; med-drk.gry, strong vcol blk, carb, brite green, pyritic IP, blocky, waxy luster IP, brick red, maroon, red-br

Ls; most crm, micro-fnxln, mealy-rgh txt, most dns, pr por, NS, some bf-lt.gry, micro-fnxln, most comp, dns, crinkl'd txt, pr por, NS, n. flor, n. vis stn, n. odor.

Sh; md-dk.gry, strong vcol red, brn, scat green, pyritic IP, sm reworked cong shales, red-brm, yell, scat cht, wht-crm, transluc-opaq, iron stn, weath-devit txt IP, spls wash red.

Sh; md-drk.gry, strong vcol AA, scat dolomitic Ls; crm-gry, micro-fnxln, scat weath txt, mealy IP, pr vis por, NSFO, iron stn, scat cht, wht-crm, NS, spls wash red.

Sh; md-drk.gry, strong vcol, most rd-brm, brick red, maroon, some brite green-teal, scat reworked dol. Ls; crm-gry, AA, pr vis por, NS, n. flor, n. od., scat iron stn., spls wash red.

Sh; md-dk.gry, vcol, AA, 20% dolo. Ls; crm-gry, micro-fnxln, mealy-occ subsucr txt, dns, OA pr vis por, NS, 10% Cht, pink-red, salmon, transluc-opaq, fresh, sharp, pr por, some crm, foss (oolitic), opaq, fresh, NS, n. flor, n. stn, n. odor.

Sh; drk gry, strong vcol, AA, incr to 30% dolomitic Ls; AA, NS, dull minri flor, n. cut, n. stn, decr Cht, AA, pink-red, salmon, transluc-opaq, fresh, sharp, foss IP (ool), pr vis por, NS, n. flor, n. stn, n. odor, no clean dolo., spls washing red.

Rw = 0.356 Ohms @ 62°F
Gravity of oil: NA

Both Shut-in curves broken over

Mud Check at 3635:
vis: 45 wt: 9.2 Chlor: 5,500
LCM: 1# Ph: 10.5 WL: 6.4

DST (5) 3555'-3635'
30-60-60-90
Blow: fr-gd, built to 10" on IFP,
no blowback on ISIP;
fr-gd, built to 12" on FFP,
no blowback on FSIP

102' SOCM
(0% gas, 5% oil, 95% mud, 0% wtr)

122' MW
(0% gas, 0% oil, 15% mud, 85% wtr)

224' Tot. Fluid

IHP: 1732 FFP: 72-119
IFP: 26-60 FSIP: 1113
ISIP: 1140 FHP: 1656

Temp: 108°F

Chlorides MUD: 5,500 PPM
DST: 55,000 PPM

Rw = 0.226 Ohms @ 42°F
Gravity of oil: NA

Both Shut-in curves broken over

DST (6) 3636'-3687'
30-60-30-60
Blow: weak, died in 6 1/2" on IFP,
no blowback on ISIP;
no blow on FFP,
no blowback on FSIP

3' Mud
(0% gas, 0% oil, 100% mud, 0% wtr)

IHP: 1791 FFP: 23-26
IFP: 22-22 FSIP: 29
ISIP: 32 FHP: 1763

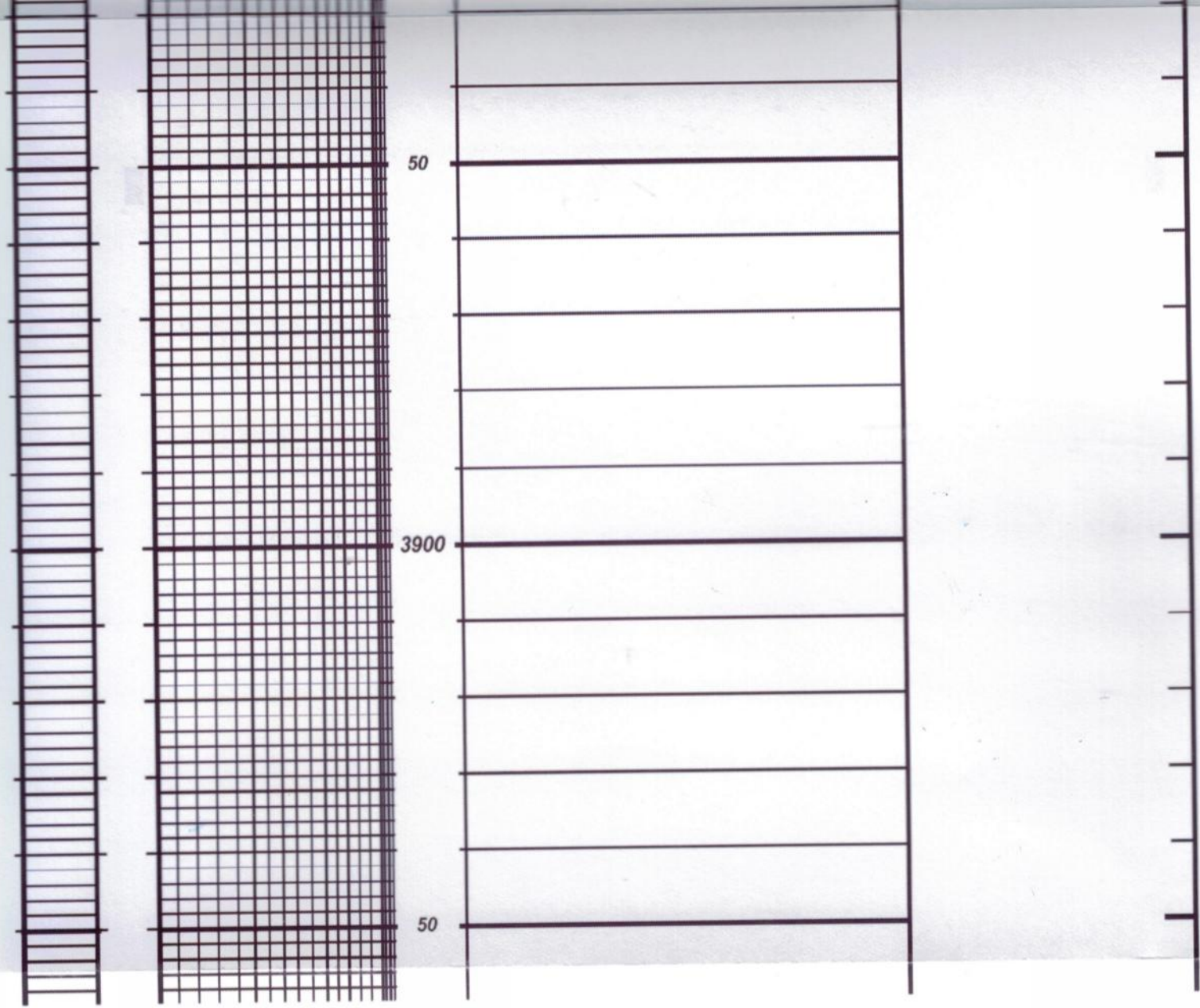
Temp: 104°F

Chlorides MUD: 6,800 PPM
DST: NA

Rw = NA
Gravity of oil: NA

Mud Check at 3687:
vis: 55 wt: 9.0 Chlor: 6,800
LCM: trc Ph: 10.0 WL: 6.8

RTD reached
5:35 PM 2/4/2012



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

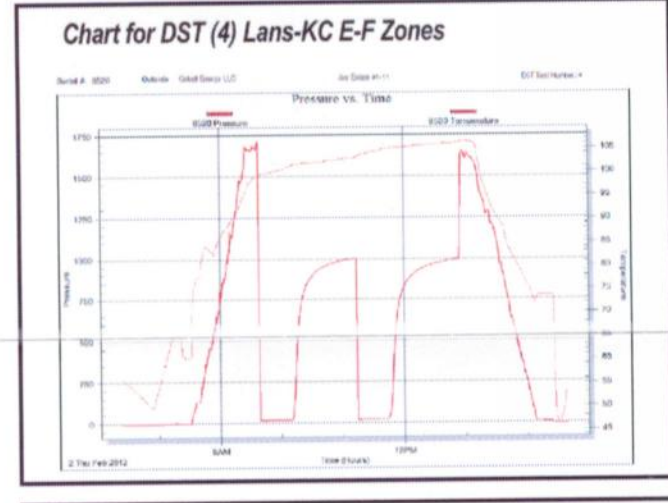
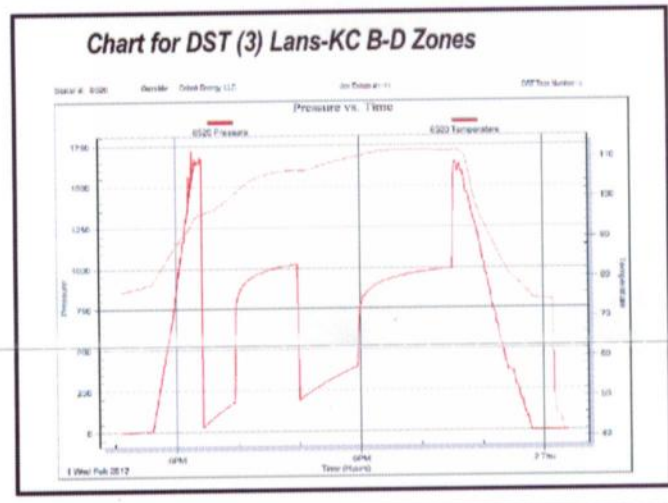
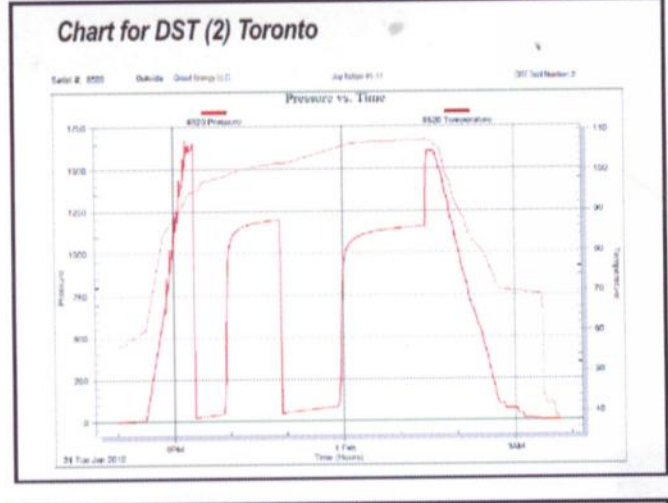
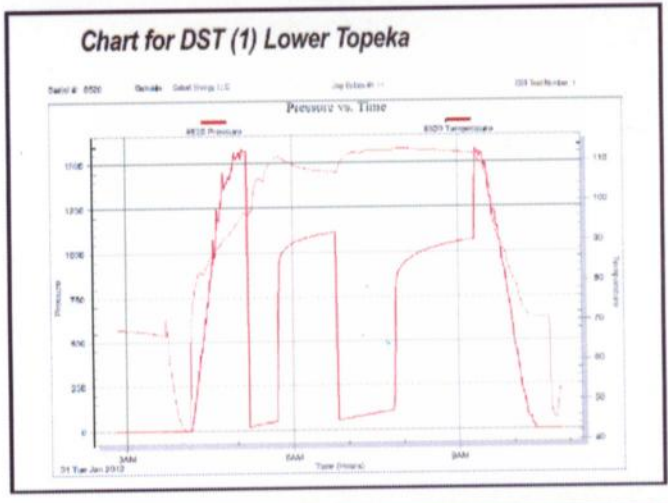


Chart for DST (5) Lans-KC H-J Zones

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

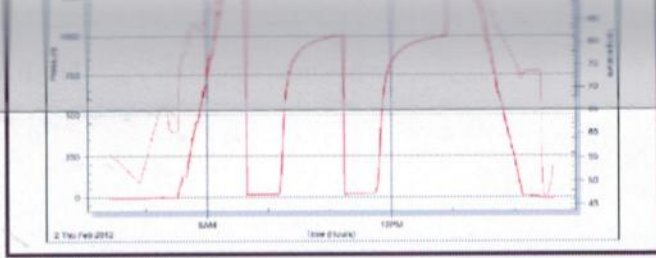
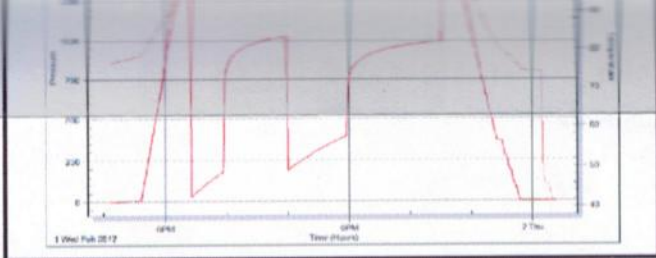


Chart for DST (5) Lans-KC H-J Zones

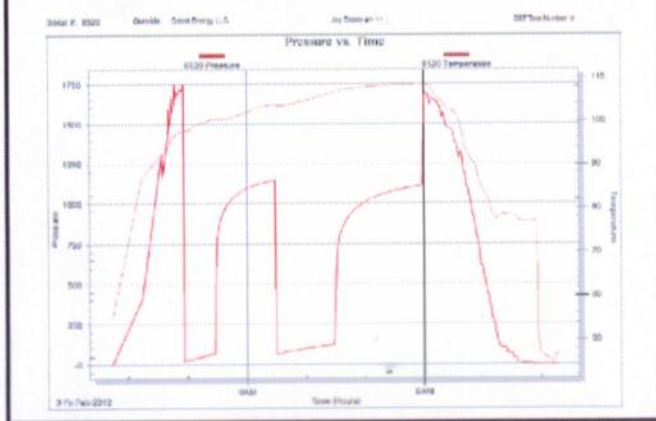
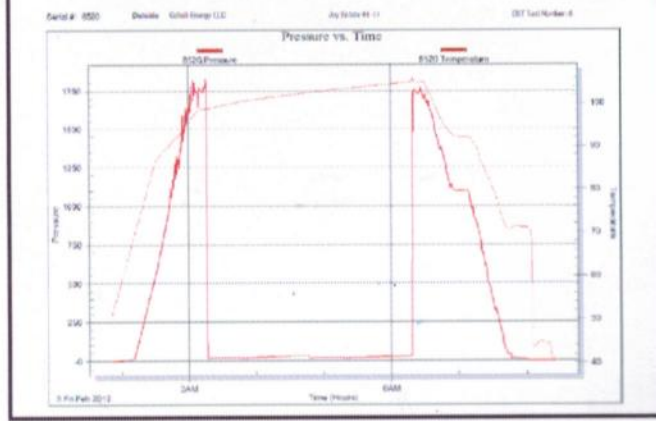


Chart for DST (6) Lans-KC K-L Zones





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

11-12s-19w Ellis, KS

115 S. Belmont #12
Wichita, KS 67208

Joy Estate #1-11

ATTN: Tim Lauer

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

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3334.00 ft (KB) To 3362.00 ft (KB) (TVD)

Reference Elevations: 2142.00 ft (KB)

Total Depth: 3362.00 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 @ Run Depth: 107.48 psig @ 3336.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.31

End Date:

2012.01.31

Last Calib.: 2012.01.31

Start Time: 02:48:30

End Time:

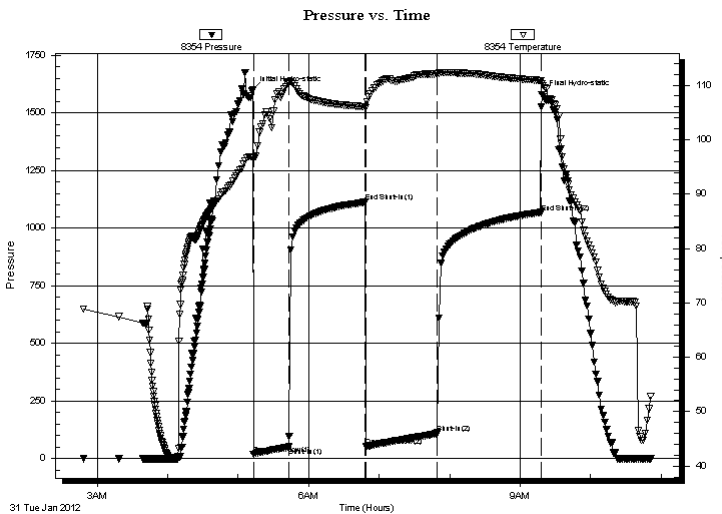
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Time On Btm: 2012.01.31 @ 05:12:30

Time Off Btm: 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.
FS-Slight surface return for 1 minute.

PRESSURE SUMMARY



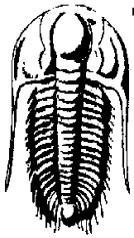
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1599.17	96.80	Initial Hydro-static
1	18.17	96.54	Open To Flow (1)
31	50.18	110.49	Shut-In (1)
96	1112.23	106.05	End Shut-In (1)
96	51.31	105.90	Open To Flow (2)
157	107.48	112.10	Shut-In (2)
245	1068.24	110.85	End Shut-In (2)
246	1579.51	110.24	Final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

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

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:13:00

Time Test Ended: 10:51:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: **3334.00 ft (KB) To 3362.00 ft (KB) (TVD)**

Reference Elevations: 2142.00 ft (KB)

Total Depth: 3362.00 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 @ Run Depth: psig @ 3336.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.31

End Date:

2012.01.31

Last Calib.:

2012.01.31

Start Time: 02:49:30

End Time:

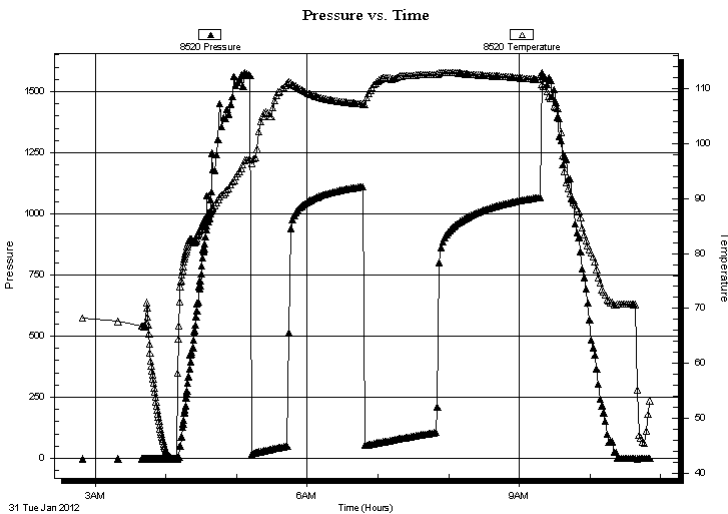
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Time On Btm:

Time Off Btm:

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.
FS-Slight surface return for 1 minute.

PRESSURE SUMMARY



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

Recovery

Gas Rates

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

	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
			<u>Total Volume: 46.68 bbl</u>	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

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

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

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:

bbbl

Water Loss: in³

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

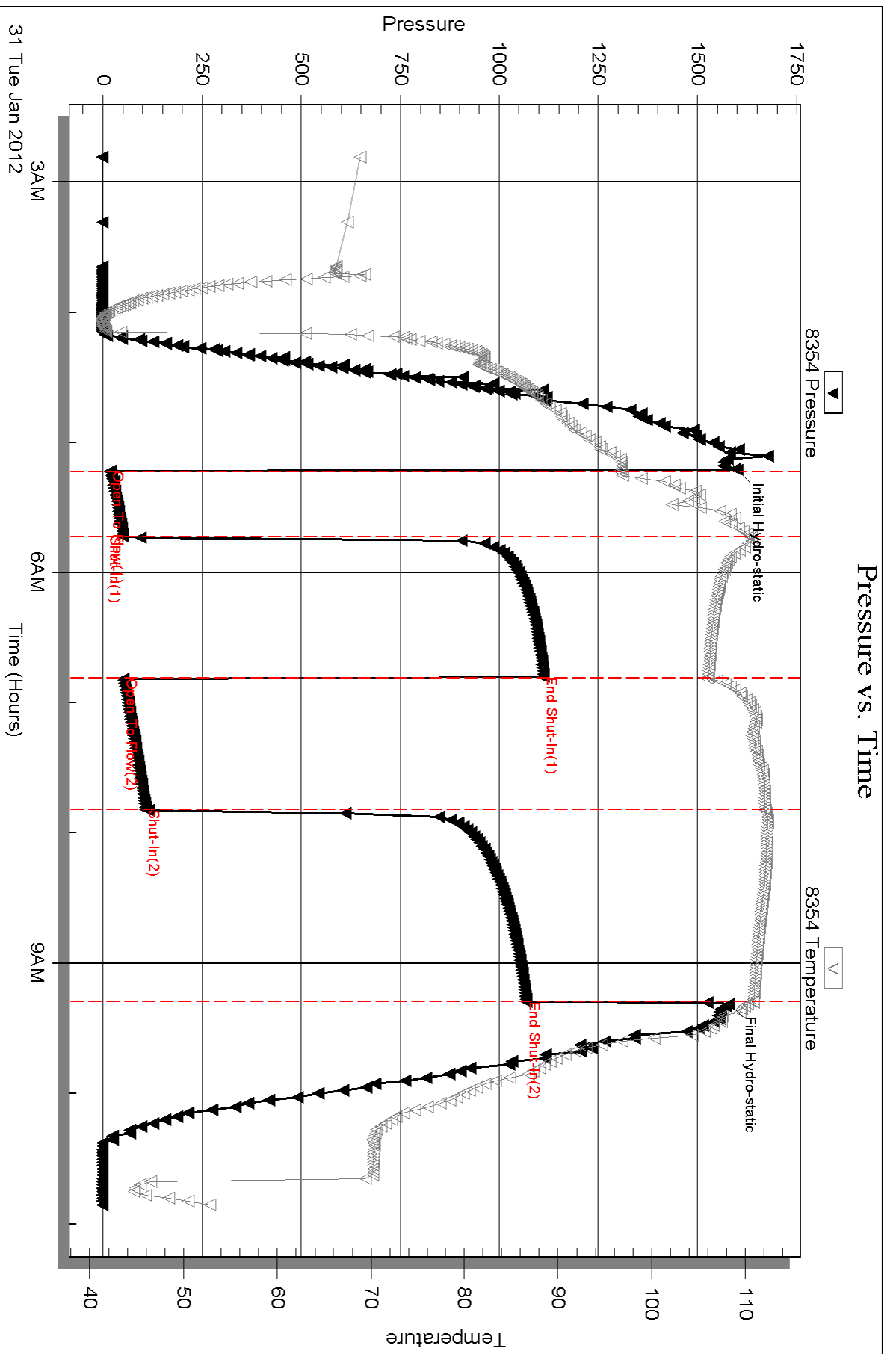
Num Gas Bombs: 0

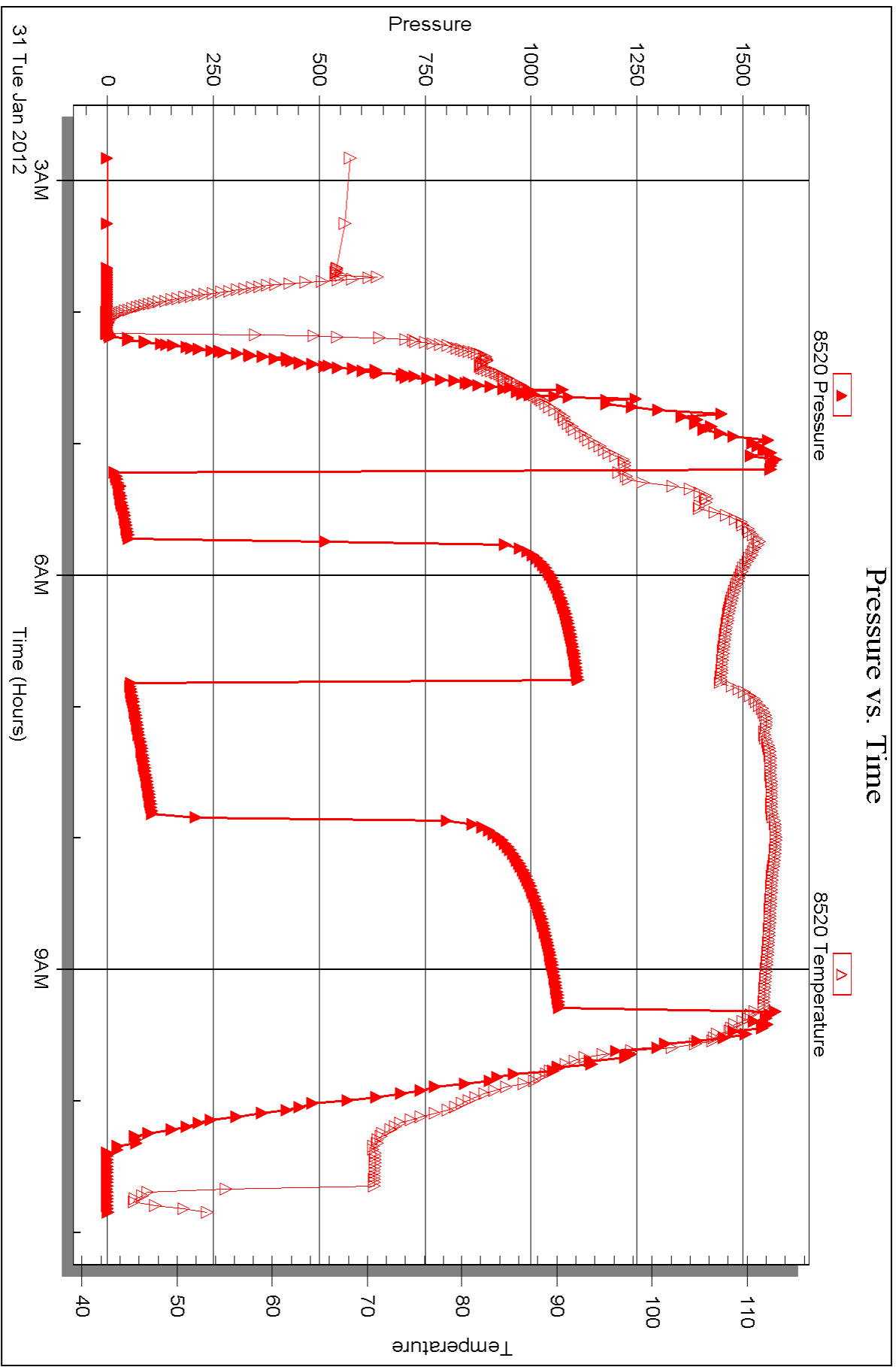
Serial #:

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

ATTN: Tim Lauer

Job Ticket: 46901

DST#: 2

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 @ Run Depth: 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

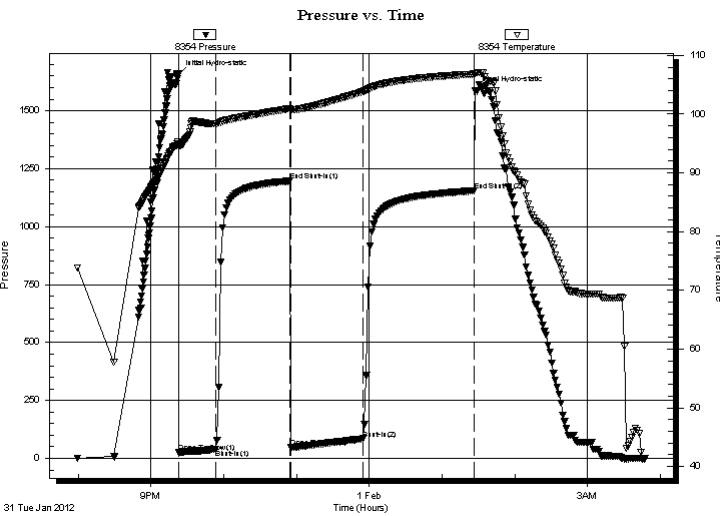
Start Time: 19:59:30

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 .
FS-No Return.



PRESSURE SUMMARY

Time (Min.)	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:

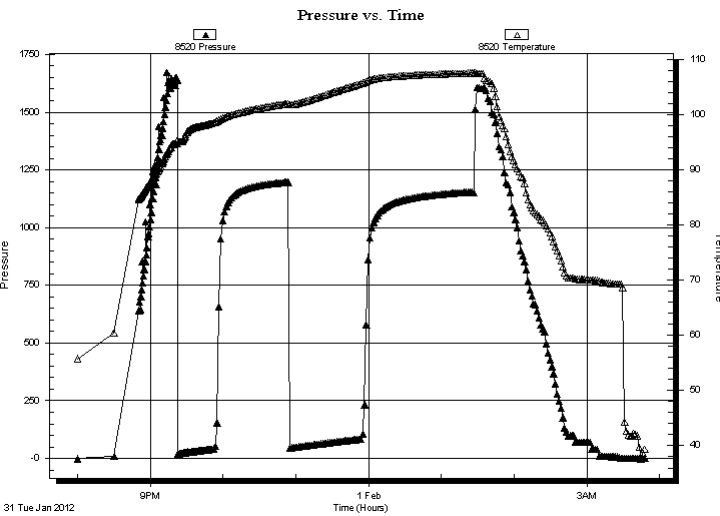
Formation: **Toronto**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:22:40
Time Test Ended: 03:47:30
Interval: **3403.00 ft (KB) To 3442.00 ft (KB) (TVD)**
Total Depth: 3442.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

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 #: 8520 Outside

Press @ Run Depth: 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
Capacity: 8000.00 psig
Last Calib.: 2012.02.01
Time On Btm:
Time Off Btm:

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 (Min.)	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
			Total Volume: 47.54 bbl	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 in³

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 bbbl
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

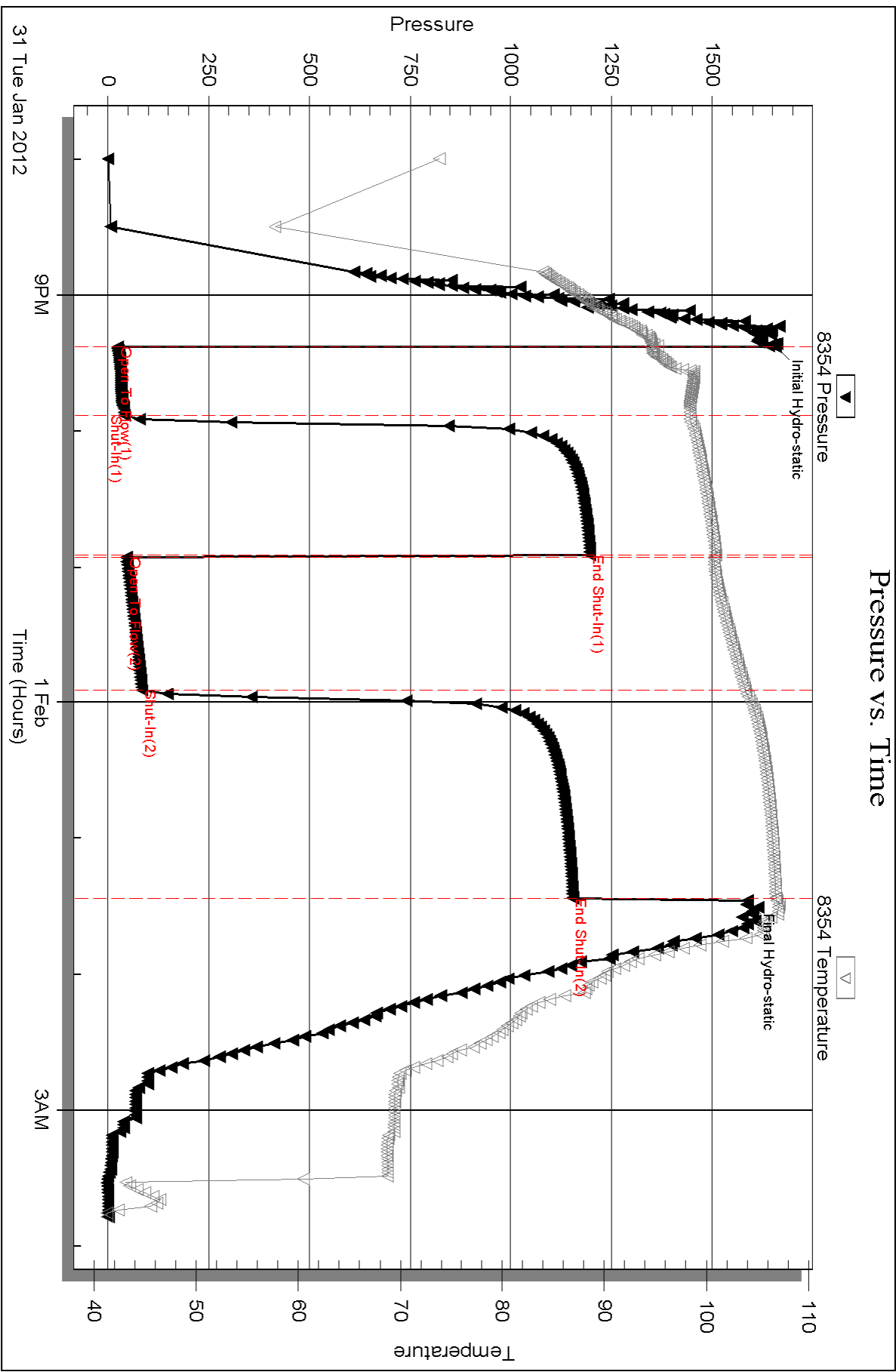
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

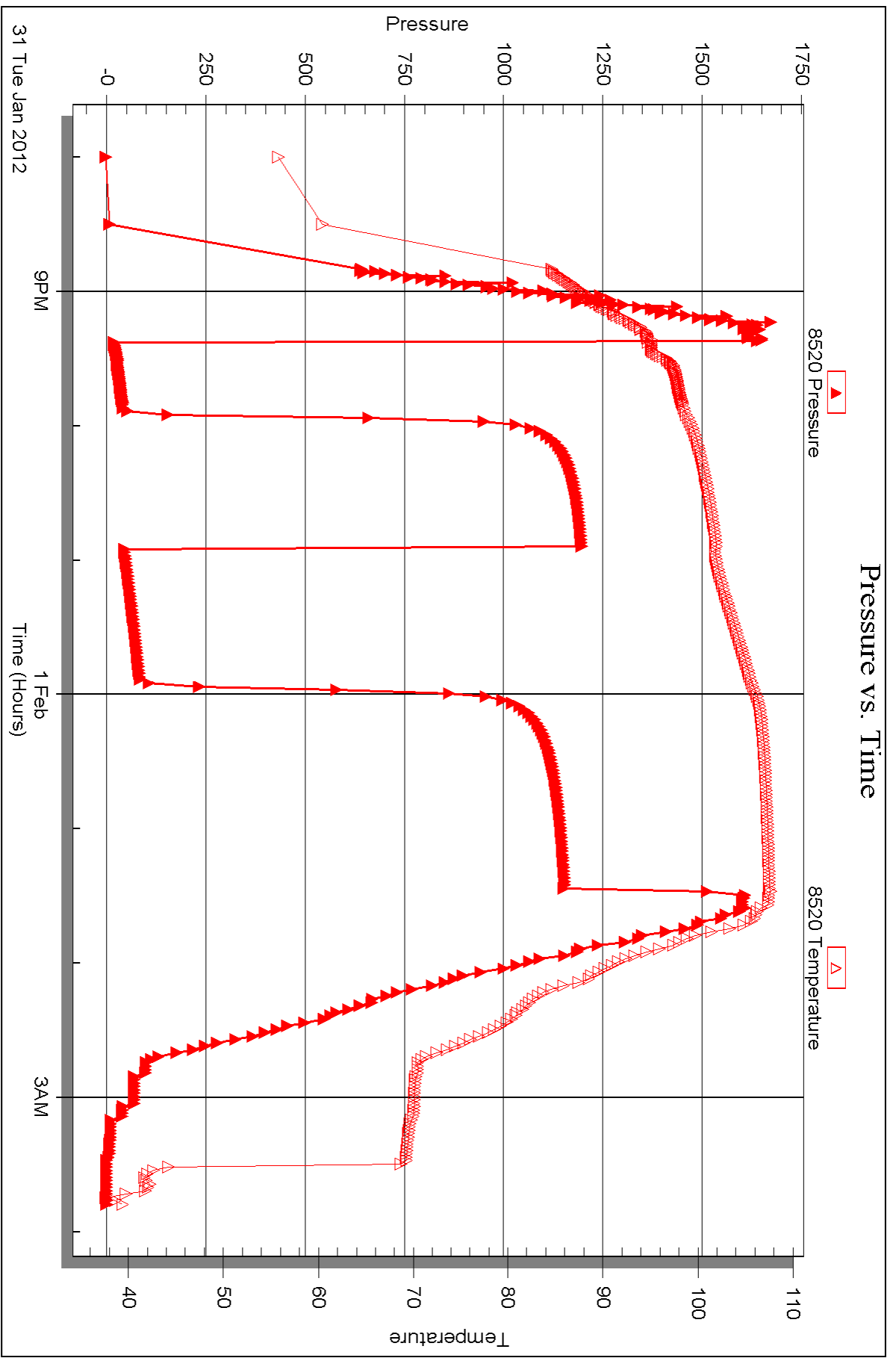


Serial #: 8520

Outside Cobalt Energy LLC

Joy Estate #1-11

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 46901

Printed: 2012.02.06 @ 15:10:35



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

11-12s-19w Ellis, KS

115 S. Belmont #12
Wichita, KS 67208

Joy Estate #1-11

ATTN: Tim Lauer

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)**

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 @ Run Depth: 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

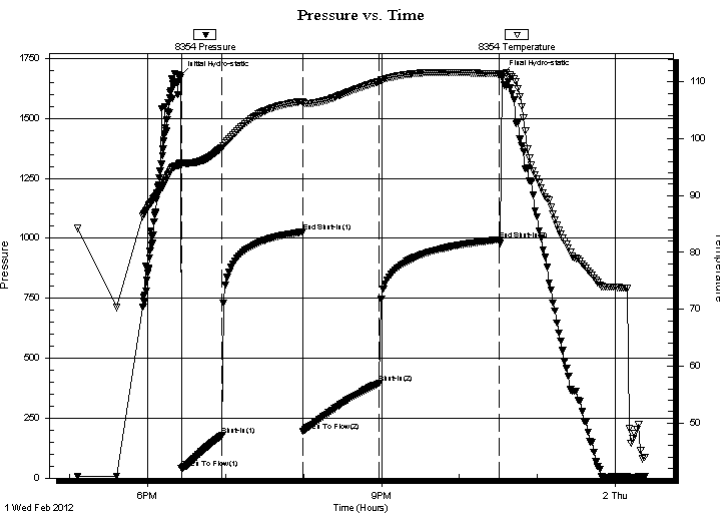
Start Time: 17:06:15

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.
FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	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

11-12s-19w Ellis,KS

115 S. Belmont #12
Wichita, KS 67208

Joy Estate #1-11

Job Ticket: 46902

DST#: 3

ATTN: TimLauer

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)

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 #: 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

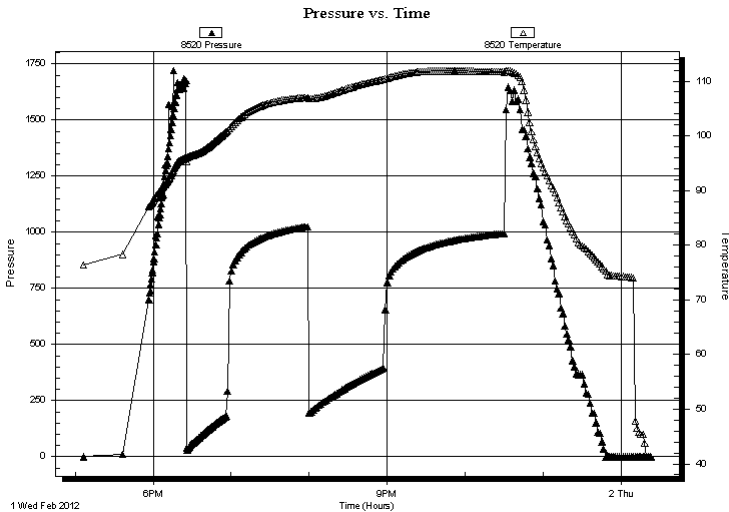
Start Time: 17:06:35 End Time: 00:23:05

Time On Btm:

Time Off Btm:

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 (Min.)	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
			Total Volume: 48.45 bbl	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

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:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: 0.18 ohm.m

Gas Cushion Pressure:

psig

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

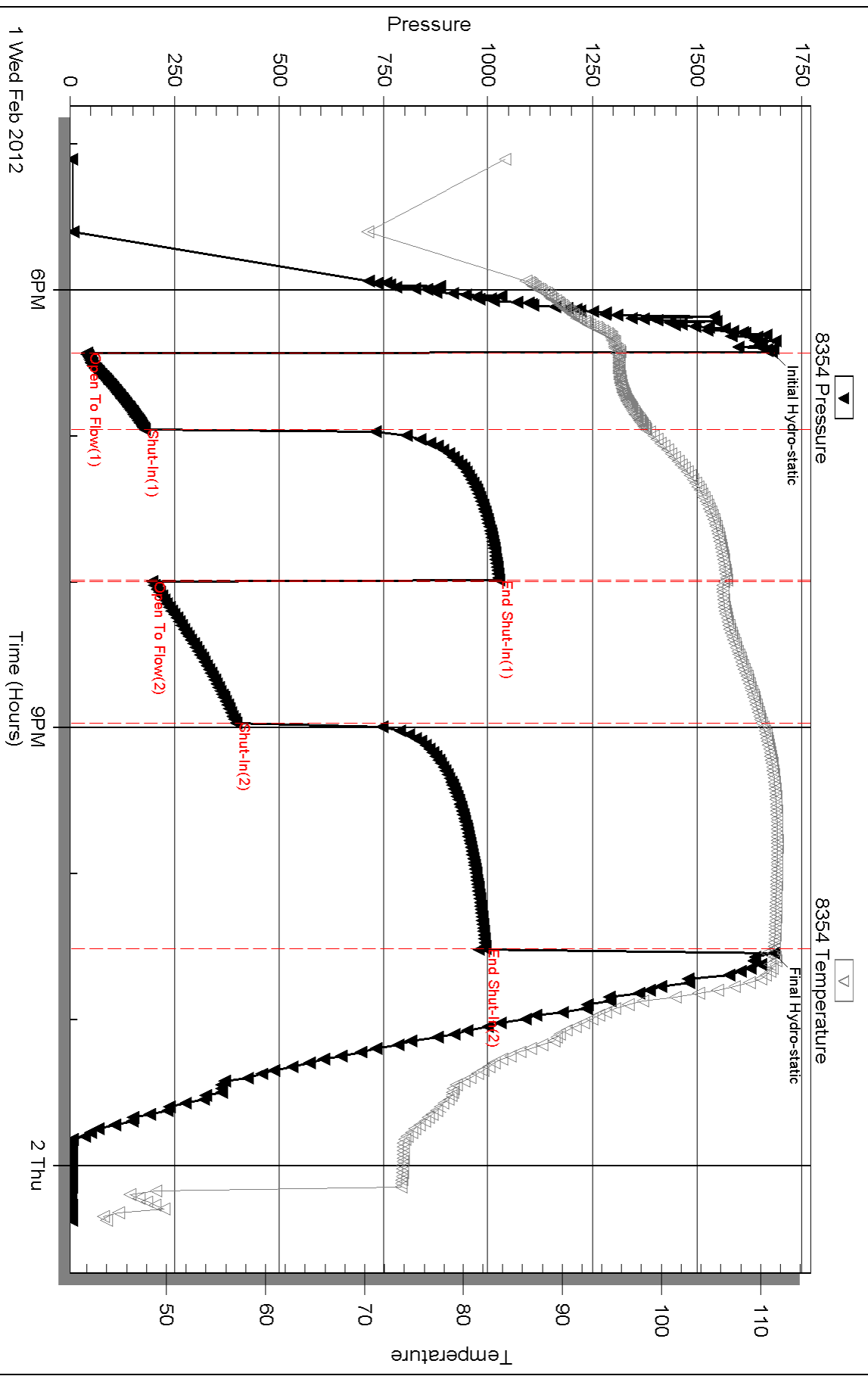
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

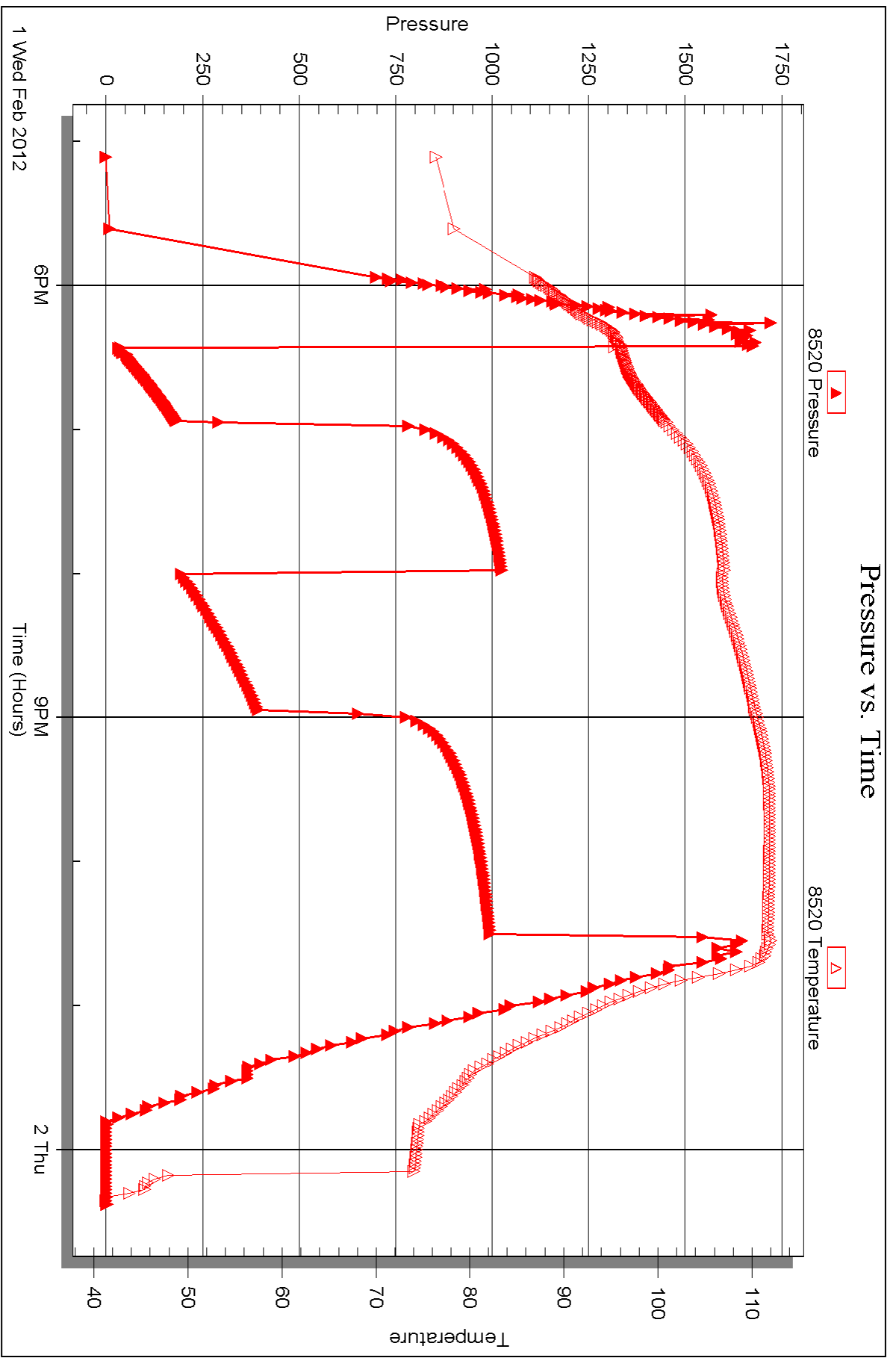


Serial #: 8520

Outside Cobalt Energy LLC

Joy Estate #1-11

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 46902

Printed: 2012.02.06 @ 15:09:53



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

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

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 @ Run Depth: 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 Btm:

2012.02.02 @ 09:38:30

Time Off Btm:

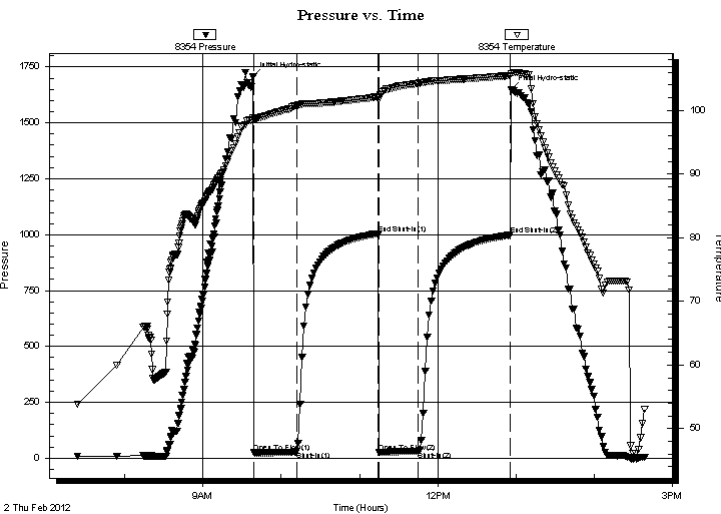
2012.02.02 @ 12:56:30

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

11-12s-19w Ellis,KS

115 S. Belmont #12
Wichita, KS 67208

Joy Estate #1-11

ATTN: TimLauer

Job Ticket: 46903

DST#: 4

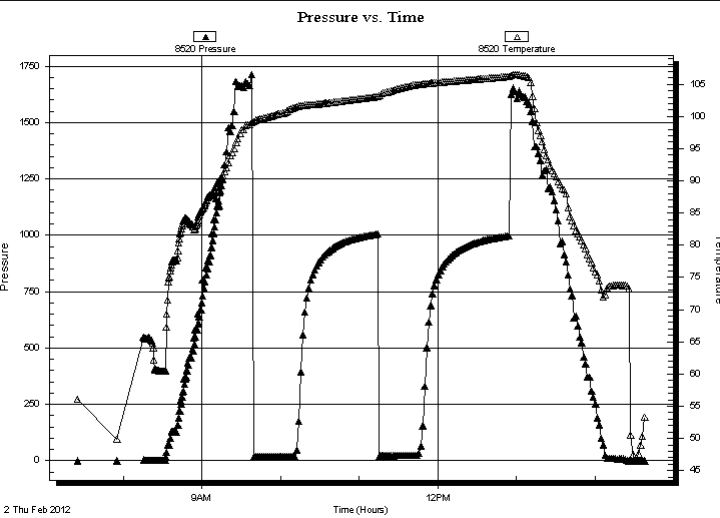
Test Start: 2012.02.02 @ 07:14:00

GENERAL INFORMATION:

Formation: LKC "E-F"				
Deviated: No Whipstock: ft (KB)		Test Type: Conventional Bottom Hole (Initial)		
Time Tool Opened: 09:39:00		Tester: Dustin Rash		
Time Test Ended: 14:39:00		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 #: 8520 Outside				
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 Btm:		
		Time Off Btm:		

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



PRESSURE SUMMARY			
Time (Min.)	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 (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: 46903

DST#: 4

ATTN: Tim Lauer

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
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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:

bbbl

Water Loss: 7.38 in³

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

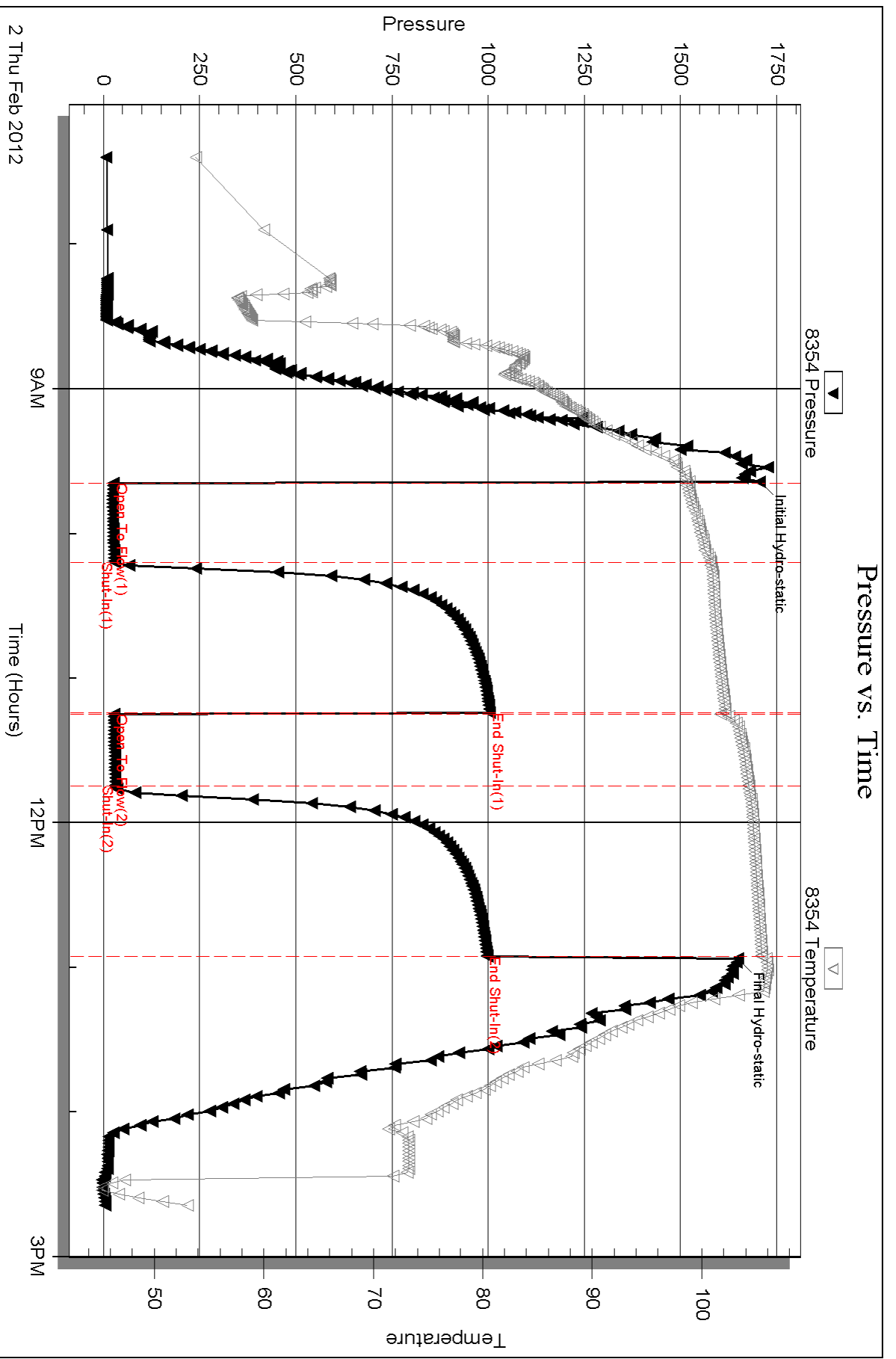
Num Gas Bombs: 0

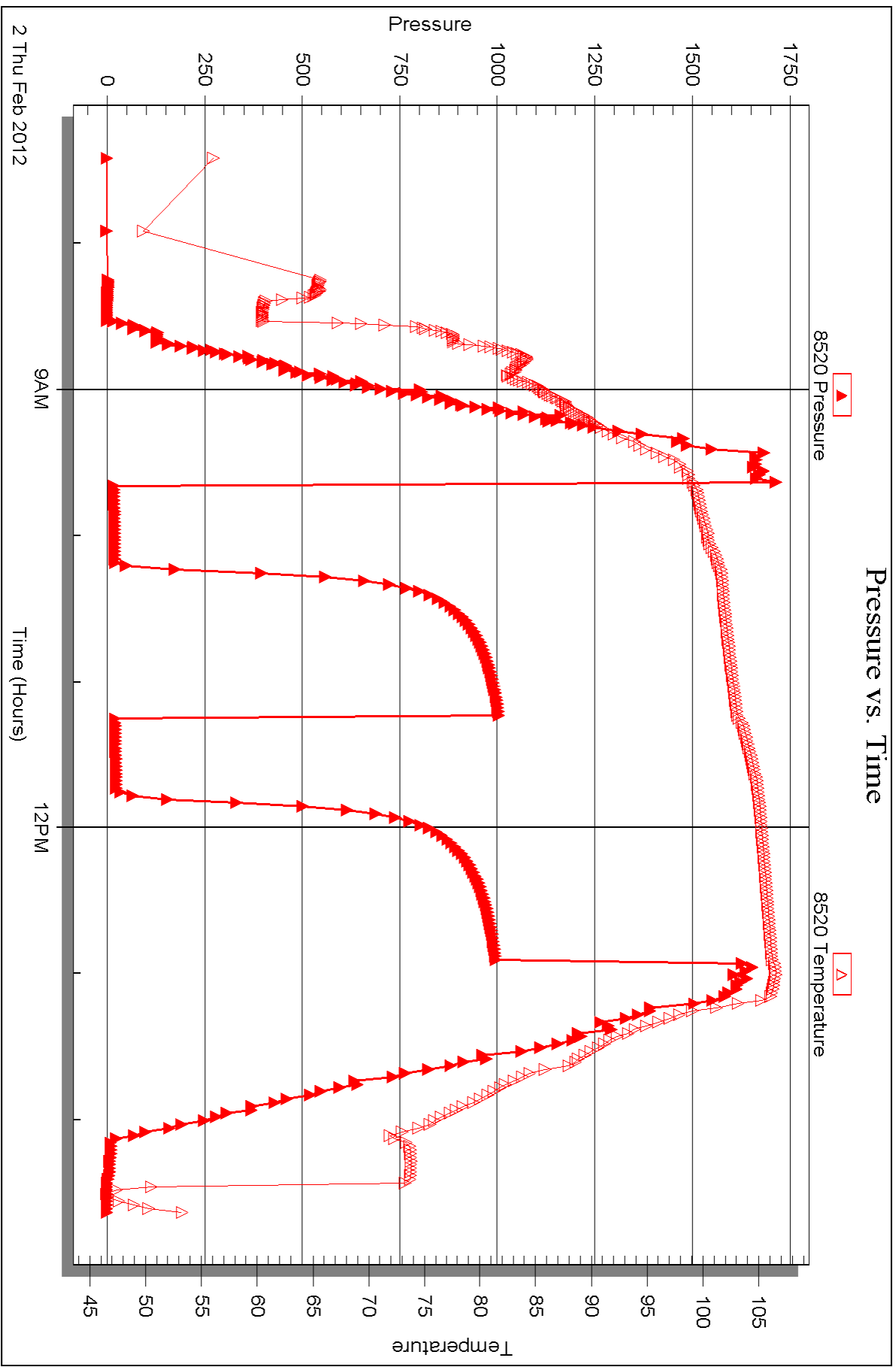
Serial #:

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

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)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 04:56:05
 Tester: Dustin Rash
 Time Test Ended: 11:16:15
 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

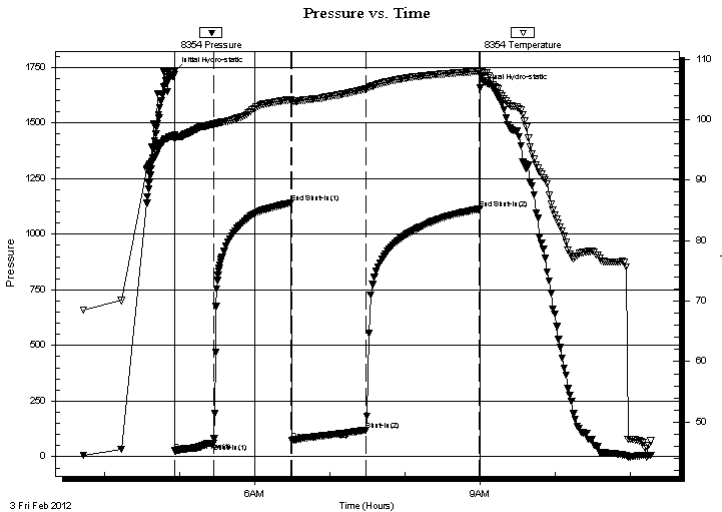
Serial #: 8354

Inside

Press @ Run Depth: 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.
 IS-No Return.
 FF-Weak building blow . Built to 12 inches.
 FS-No Return.

PRESSURE SUMMARY



Time (Min.)	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 @ Run Depth: 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

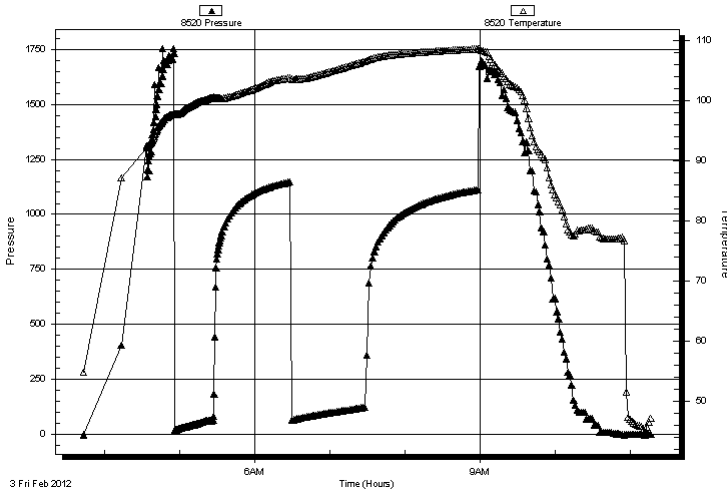
End Time: 11:16:00

Time On Btm:

Time Off Btm:

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

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	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

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:

bbbl

Water Loss: 7.39 in³

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 bbl
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 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

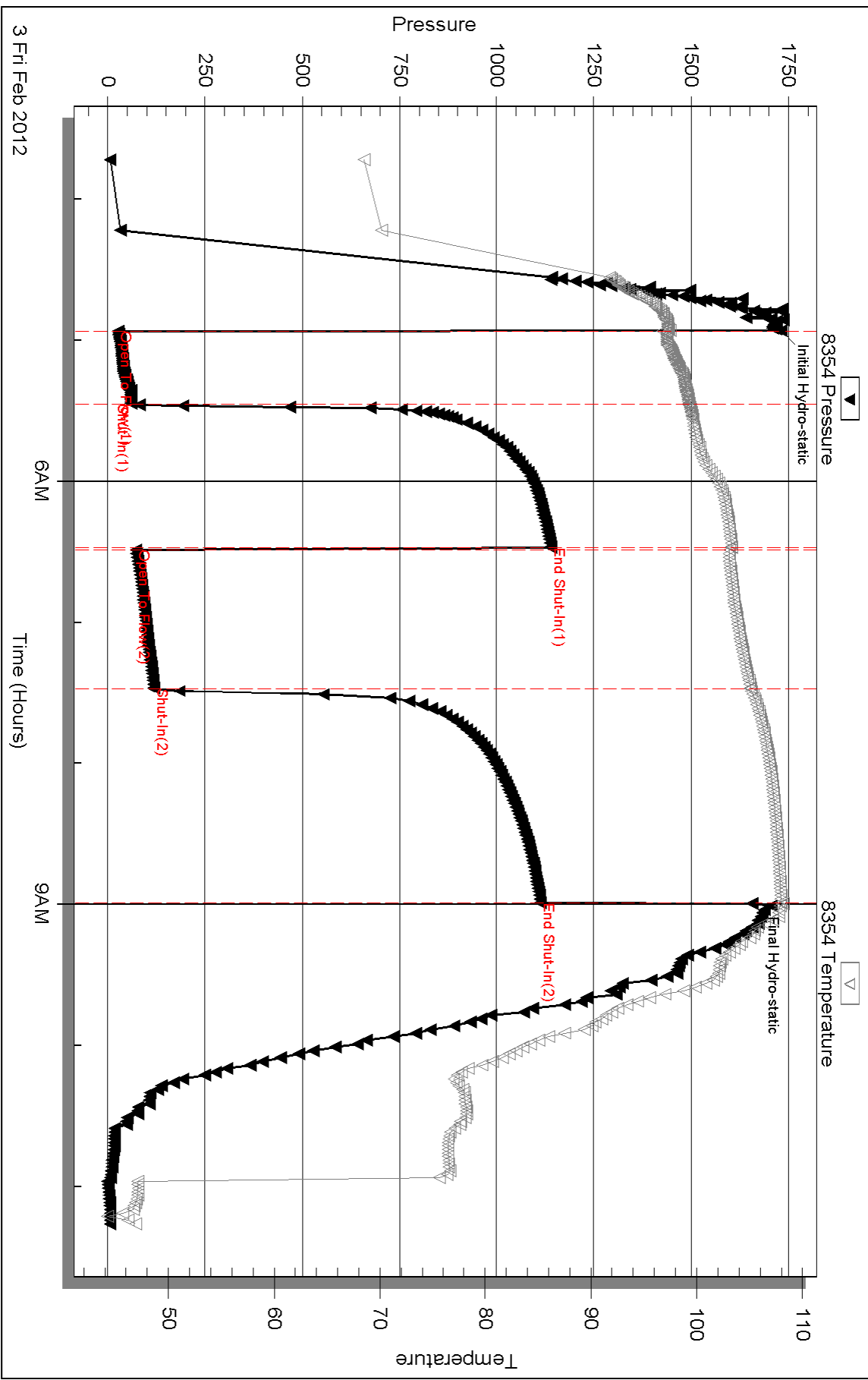
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

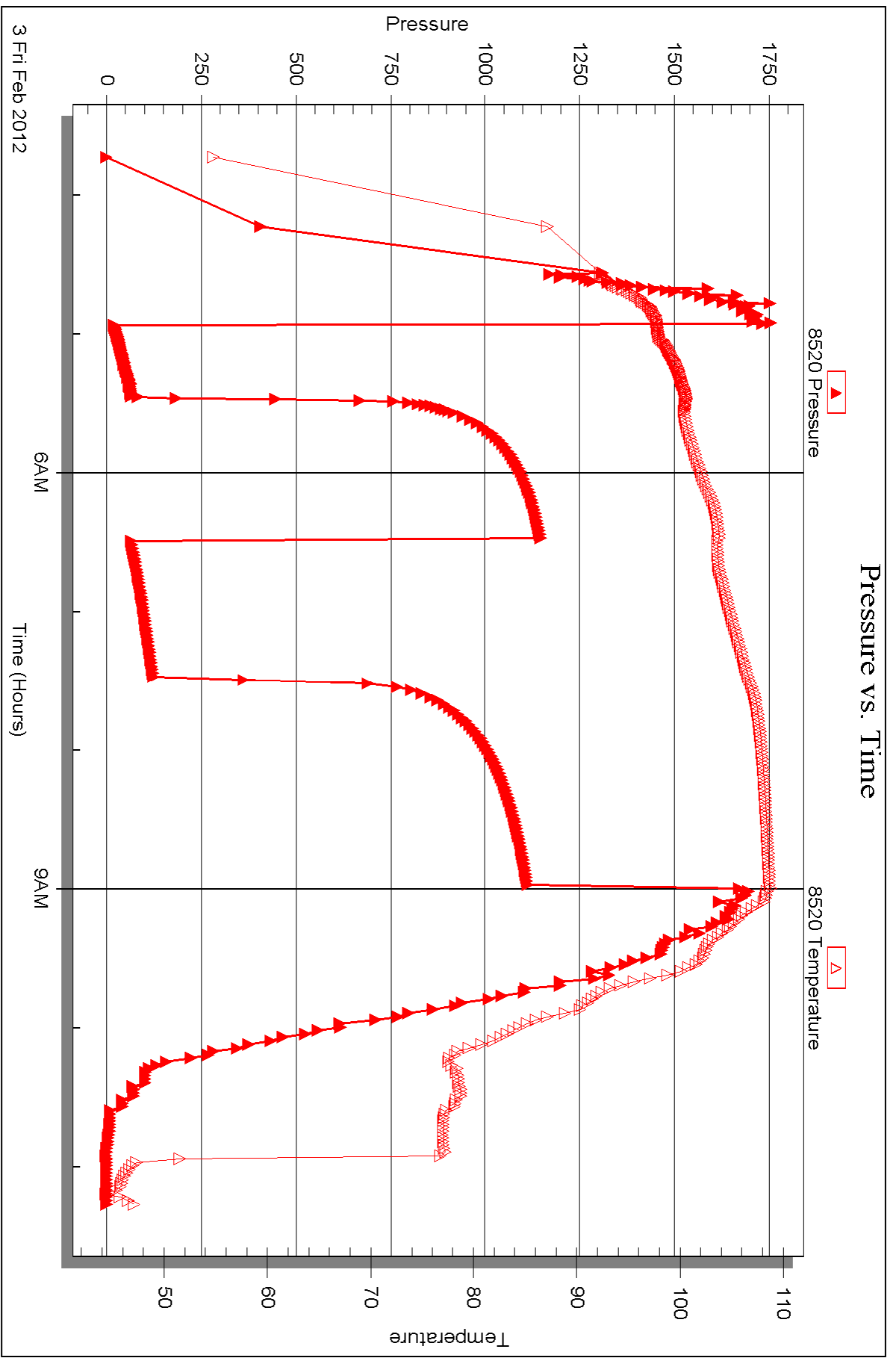


Serial #: 8520

Outside Cobalt Energy LLC

Joy Estate #1-11

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 46904

Printed: 2012.02.06 @ 15:07:13



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



**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: 46905

DST#: 6

ATTN: Tim Lauer

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 #: 8354

Inside

Press @ Run Depth: 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

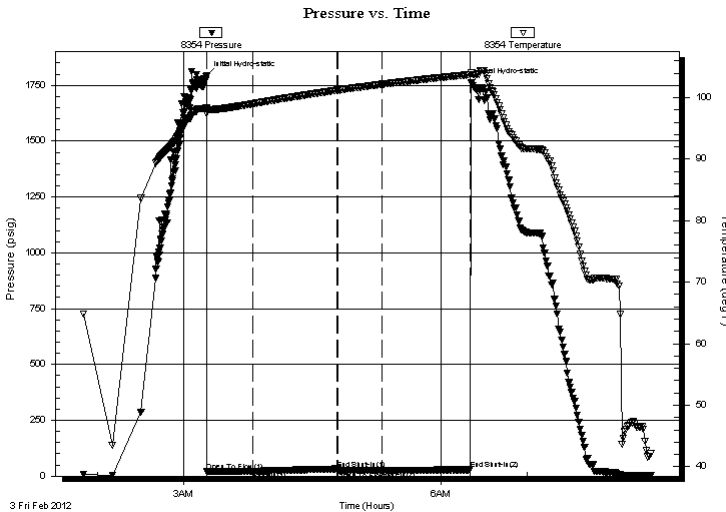
TEST COMMENT: IF-Very weak surface blow. Died @ 6 minutes 30 seconds.

ISI-No Return.

FF-No Blow.

FSI-No Return.

PRESSURE SUMMARY



Time (Min.)	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)**
 Total Depth: 3687.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2142.00 ft (KB)
 2131.00 ft (CF)
 KB to GR/CF: 11.00 ft

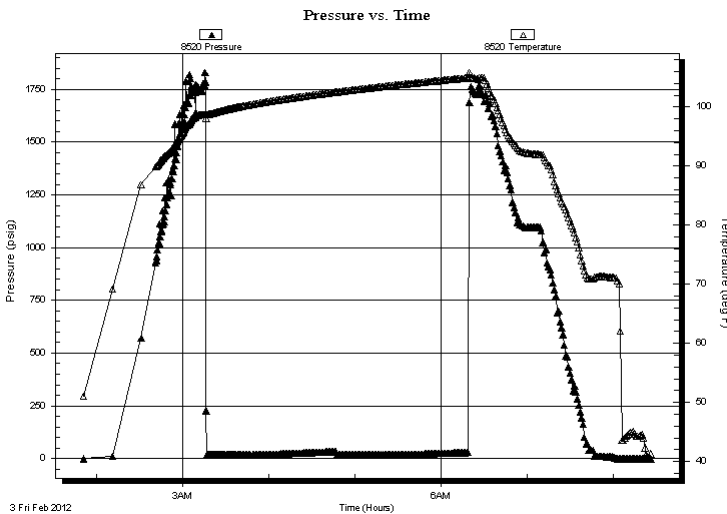
Serial #: 8520

Outside

Press @ Run Depth: psig @ 3676.00 ft (KB)
 Start Date: 2012.02.03 End Date: 2012.02.03
 Start Time: 01:51:10 End Time: 08:25:40

Capacity: 8000.00 psig
 Last Calib.: 2012.02.04
 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 (Min.)	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	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

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

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:

bbbl

Water Loss: 6.39 in³

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

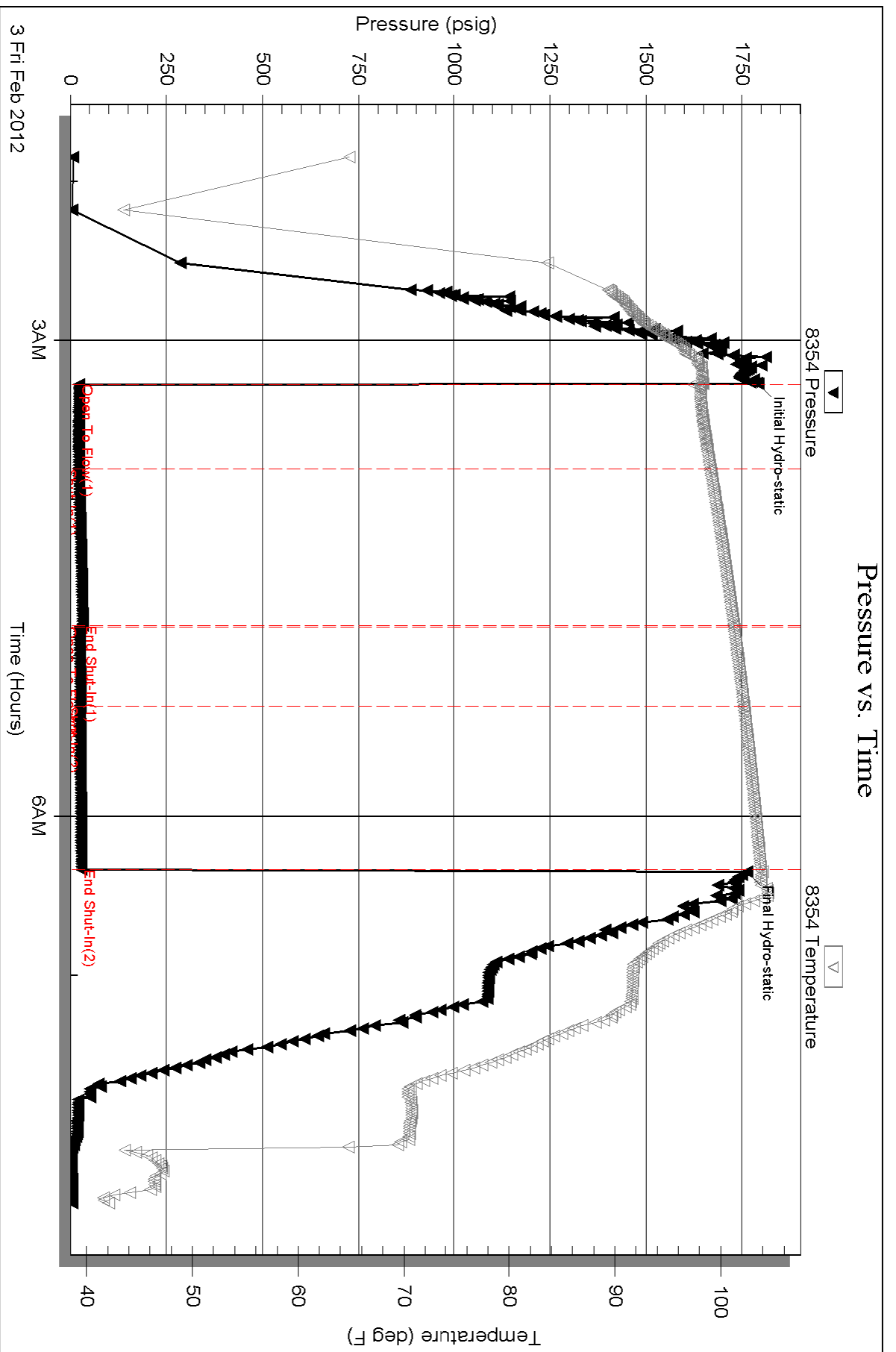
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

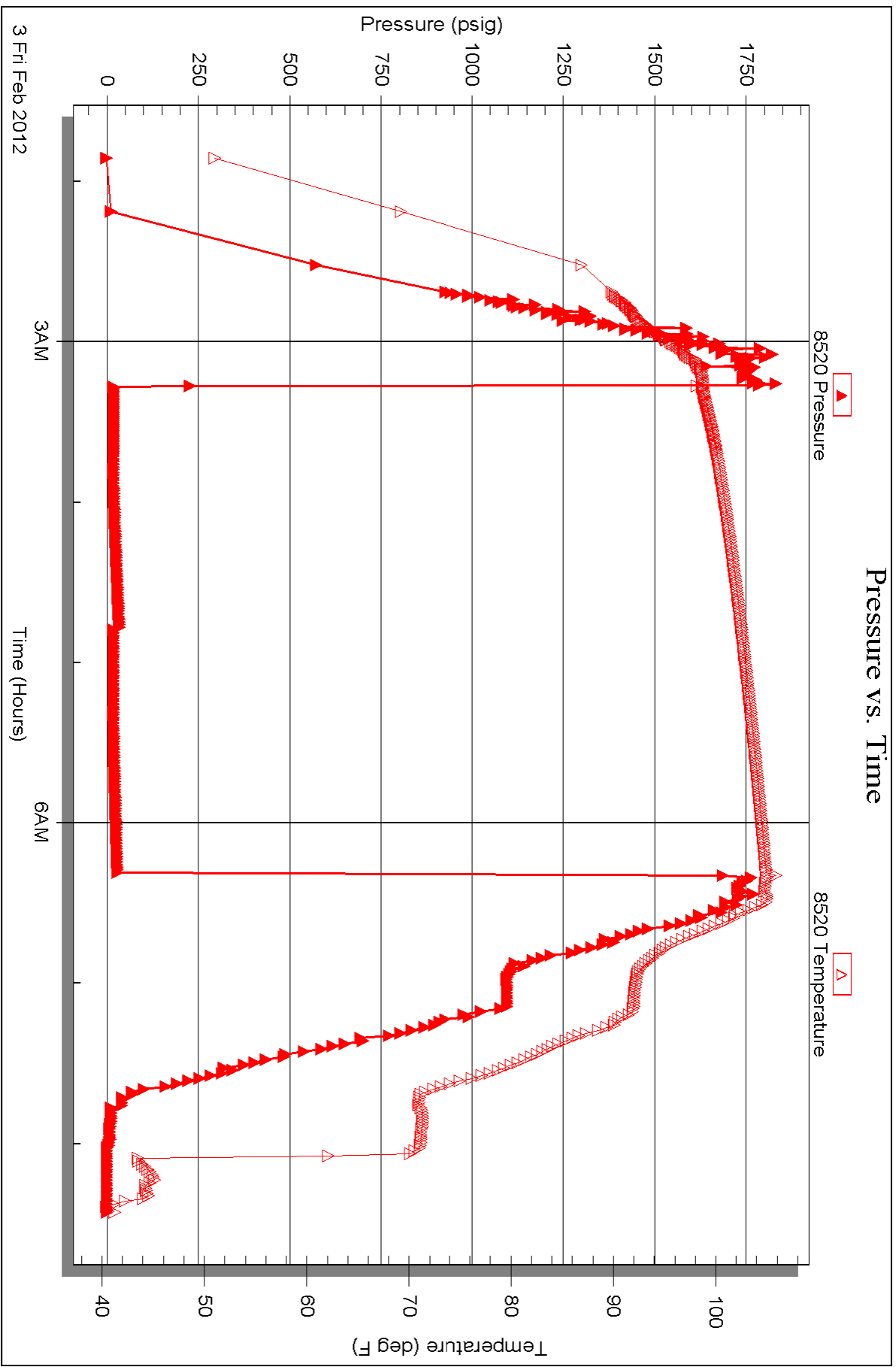


Serial #: 8520

Outside Cobalt Energy LLC

Joy Estate #1-11

DST Test Number: 6





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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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. 12S 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, Died off to 1/4 inch.
FST- 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

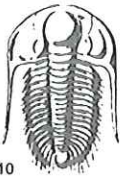
Rec Total 185 BHT 112 Gravity 1125 API RW 1152 @ 59 ° F Chlorides 52000 ppm
 (A) Initial Hydrostatic 1599 Test
 (B) First Initial Flow 18 Jars
 (C) First Final Flow 50 Safety Joint 75
 (D) Initial Shut-In 1112 Circ Sub
 (E) Second Initial Flow 51 Hourly Standby
 (F) Second Final Flow 107 Mileage 13X2 26RT 36.40
 (G) Final Shut-In 1068 Sampler
 (H) Final Hydrostatic 1580 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

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

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1236.40
 Total 1236.40
 MP/DST Disc'n

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
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 1
 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 WL 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 Oil</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 36.40 Comments Part-1949
 (G) Final Shut-In 1155 Sampler
 (H) Final Hydrostatic 1587 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer

Initial Open 30 Extra Packer Extra Copies
 Initial Shut-In 60 Extra Recorder Sub Total 0
 Final Flow 60 Day Standby Total 1236.40
 Final Shut-In 90 Accessibility MP/DST Disc't
 Sub Total 1236.40

Approved By _____ Our Representative D. Rosh

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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 Sawtooth 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,

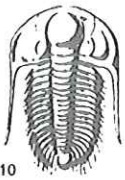
Rec	Feet of	%gas	%oil	%water	%mud
<u>760</u>	<u>Muddy water</u>			<u>90</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

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

Initial Open 30 Extra Recorder
 Initial Shut-In 60 Day Standby
 Final Flow 60 Accessibility
 Final Shut-In 90 Sub Total 1236.40
 Sub Total 1236.40 MP/DST Disc't

Approved By _____ Our Representative D. Rosh

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 03 2012
BY: _____

Test Ticket

NO. 46903

Well Name & No. Joy Estarett #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 Lauer 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#

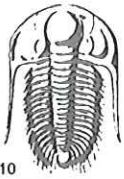
Blow Description VF - Very weak surging 1/4 inch blow,
IST - No Return,
FF - No Blow,
FST - No Return.

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 1125 API RW 356 @ 62 °F Chlorides 28000 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 13XZ 36.40 Comments Best-0714
 (G) Final Shut-In 998 Sampler
 (H) Final Hydrostatic 1649 Straddle Ruined Shale Packer

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

Approved By _____ Our Representative D. Rash



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 06 2012

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,
FSD - No Return,

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

Rec Total 224 BHT 108 Gravity _____ API RW .226 @ 42 °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 1382 36⁴⁰ Comments Batt-0333
 (G) Final Shut-In 1113 Sampler _____
 (H) Final Hydrostatic 1656 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1236⁴⁰
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1236⁴⁰

Approved By _____ Our Representative D. Rash

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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 2#

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 104 Gravity 1125 API RW 36⁴⁰ @ 1236⁴⁰ °F Chlorides 5500 ppm

(A) Initial Hydrostatic 1791 Test 1125 T-On Location 2345
 (B) First Initial Flow 22 Jars 75 T-Started 0745
 (C) First Final Flow 22 Safety Joint 75 T-Open 0317
 (D) Initial Shut-In 32 Circ Sub 0620 T-Pulled 0620
 (E) Second Initial Flow 23 Hourly Standby 0830 T-Out 0830
 (F) Second Final Flow 26 Mileage 13X2 36⁴⁰ Comments BHT-0140
 (G) Final Shut-In 29 Sampler
 (H) Final Hydrostatic 1763 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1236⁴⁰
 Accessibility MP/DST Disc't
 Sub Total 1236⁴⁰

Approved By _____ Our Representative [Signature]

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

ALLIED CEMENTING CO., LLC. 036170

Federal Tax I.D.# 20-5975804

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>8:00pm</u>	JOB START <u>10:00am</u>	JOB FINISH <u>10:30am</u>
LEASE <u>Joy Estate</u>	WELL # <u>1-11</u>	LOCATION <u>Yocumato, ks 57426</u>			COUNTY <u>21115</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)		Backage Rd, 2E, 1 1/2 N, Winto					

CONTRACTOR Southwind #1

TYPE OF JOB Surface

HOLE SIZE 12 1/4" T.D. 246'

CASING SIZE 8 7/8" DEPTH 244'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 151

PERFS.

DISPLACEMENT 14,826.61

OWNER Same

CEMENT AMOUNT ORDERED 150sk com 3%cc

2 3/4 gal

COMMON	<u>150sk</u>	@	<u>16.25</u>	<u>2437.50</u>
POZMIX		@		
GEL	<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>1585sk</u>	@	<u>2.25</u>	<u>355.50</u>
MILEAGE	<u>114.5K/mile</u>			<u>173.80</u>
TOTAL				<u>3316.55</u>

EQUIPMENT

PUMP TRUCK # 431 CEMENTER LaRae HELPER Darren

BULK TRUCK # 347 DRIVER Brandon

BULK TRUCK # DRIVER

REMARKS:

Mix 150sk down casing

Displace with water

run cement die circulate

Thank you

CHARGE TO: Cobalt Energy LLC

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 244'

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @ _____

MILEAGE 10 ms @ 7.00 70.00

MANIFOLD 5 wedge @ _____

L.V. mileage @ 4.00 40.00

TOTAL 1235.00

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 Derby Keever

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

BID

ALLIED OIL & GAS SERVICES, LLC 056955

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
RUSSELL

DATE <u>2-5-12</u>	SEC <u>11</u>	TWP. S <u>12</u>	RANGE W <u>19</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>ELLI'S</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> 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 @ 40 4% GAL</u>
CASING SIZE <u>8 5/8</u> DEPTH <u>244</u>	<u>1/4" FLO-SEAL PROF SK</u>
TUBING SIZE DEPTH	
DRILL PIPE <u>4 1/2</u> DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>147 @ 16.25 2388.75</u>
MEAS. LINE SHOE JOINT	POZMIX <u>103 @ 8.50 878.5</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

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

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

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>LDV m. 38</u>	@ <u>4.00</u>	<u>152.00</u>
		TOTAL <u>1668.00</u>

CHARGE TO: COBALT ENERGY
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>8 5/8 wooden Plugs</u>	@	<u>64.00</u>
	@	
	@	
	@	
		TOTAL <u>64.00</u>

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 <u>7036.86</u>	
DISCOUNT <u>20/50</u>	IF PAID IN 30 DAYS

PRINTED NAME Frank Rome
SIGNATURE Frank Rome

ALLIED CEMENTING CO., LLC. 036170

Federal Tax I.D.# 20-5975804

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>8:00pm</u>	JOB START <u>10:00am</u>	JOB FINISH <u>10:30am</u>
LEASE <u>Joy Estate</u>	WELL # <u>1-11</u>	LOCATION <u>Yocumato, ks 57426</u>			COUNTY <u>2115</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)		Backage Rd, 2E, 1 1/2 N, Winto					

CONTRACTOR Southwind #1

TYPE OF JOB Surface

HOLE SIZE 12 1/4" T.D. 246'

CASING SIZE 8 7/8" DEPTH 244'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 151

PERFS.

DISPLACEMENT 14,826.61

OWNER Same

CEMENT AMOUNT ORDERED 150sk com 3%cc

2 3/4 gal

COMMON 150sk @ 16.25 2437.50

POZMIX @

GEL 3 sk @ 21.25 63.75

CHLORIDE 5 sk @ 58.20 291.00

ASC @

HANDLING 1585sk @ 2.25 355.50

MILEAGE 114.5K/mile 173.80

TOTAL 3316.55

EQUIPMENT

PUMP TRUCK CEMENTER LaRae

431 HELPER Darren

BULK TRUCK DRIVER Brandon

347 DRIVER

REMARKS:

Mix 150sk down casing

Displace with water

run cement die circulate

Thank you

CHARGE TO: Cobalt Energy LLC

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB 244'

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @

MILEAGE 10 ms @ 7.00 70.00

MANIFOLD 5 wedge @ 4.00 40.00

L.V. mileage @

TOTAL 1235.00

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 Derby Keever

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

BID

ALLIED OIL & GAS SERVICES, LLC 056955

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

RUSSELL

DATE <u>2-5-12</u>	SEC <u>11</u>	TWP. S <u>12</u>	RANGE W <u>19</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>ELLI'S</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (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 @ 40 4% Gal</u>
CASING SIZE <u>8 5/8</u> DEPTH <u>244</u>	<u>1/4" FLO-SEAL PPSK</u>
TUBING SIZE DEPTH	
DRILL PIPE <u>1 1/2</u> DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>147 @ 16.25 2388.75</u>
MEAS. LINE SHOE JOINT	POZMIX <u>103 @ 8.50 878.5</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 # <u>409</u>	CEMENTER <u>Bob Smith</u>
	HELPER <u>Todd</u>
BULK TRUCK # <u>378</u>	DRIVER <u>RON</u>
BULK TRUCK #	DRIVER

REMARKS:

<u>P1 - 3780' - 25 SK</u>
<u>P2 - 1520' - 25 SK</u>
<u>P3 - 780' - 100 SK</u>
<u>P4 - 294' - 40 SK</u>
<u>P5 - 40' - 10 SK</u>
<u>RAT - 30 SK</u>
<u>mouse - 15 SK</u>

HANDLING <u>262</u>	@ <u>2.25</u>	<u>589.5</u>
MILEAGE <u>38 X 262 X .11</u>		<u>1095.16</u>
		TOTAL <u>5304.86</u>

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>LDV m. 38</u>	@ <u>4.00</u>	<u>152.00</u>
		TOTAL <u>1668.00</u>

CHARGE TO: COBALT ENERGY
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>8 5/8 wooden Plugs</u>	@	<u>64.00</u>
	@	
	@	
	@	
	@	
		TOTAL <u>64.00</u>

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 <u>7036.86</u>	
DISCOUNT <u>20/50</u>	IF PAID IN 30 DAYS

PRINTED NAME Frank Rome
SIGNATURE Frank Rome

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