Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1232783

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section

Footogoo Colculated fr NI. - 4 : \sim

Contact Person:			Footages Calculated from	1 Nearest Out	tside Section Cor	ner:
Phone: ()				W 🗌 SE	SW	
CONTRACTOR: License #			GPS Location: Lat:	(e.g. xx.xxxx)	, Long:	(e.gxxx.xxxxx)
Name: Wellsite Geologist:			Datum: NAD27			
Purchaser:			County:			
Oil WSW Gas D&A OG CM (Coal Bed Methane) Cathodic Other (Coal If Workover/Re-entry: Old Well	nfo as follows:		Lease Name: Field Name: Producing Formation: Elevation: Ground: Total Vertical Depth: Amount of Surface Pipe S Multiple Stage Cementing If yes, show depth set: If Alternate II completion,	Plu Set and Ceme g Collar Used	Kelly Bushing: Ig Back Total Dep ented at: ? Yes N	th: Feel o Feel
Operator: Well Name:			feet depth to:			
Original Comp. Date: Deepening Re-per	Original T		Drilling Fluid Manageme (Data must be collected from		it)	
Commingled Dual Completion SWD	Permit #:		Chloride content: Dewatering method used: Location of fluid disposal	:		
ENHR GSW	Permit #:		Operator Name:			
Spud Date or Date R Recompletion Date	eached TD	Completion Date or Recompletion Date	Quarter Sec County:		S. R	

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY
Confidentiality Requested
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II III Approved by: Date:

	Page Two	1232783
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTRUCTIONS, Chow important tang of formations papatrated	Dotail all coros Poport all final	copies of drill stome tasts giving interval tasted, time tool

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional Sh	eets)	Yes No		-	on (Top), Depth a		Sample
Samples Sent to Geolog	gical Survey	Yes No	Name	e		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
			RECORD Ne		ion, 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 / SQU	EEZE RECORD			
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used		Type and F	Percent Additives	

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing				
Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?	[
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	[
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	ſ

Yes	No
Yes	No
Yes	No

(If No, skip questions 2 and 3) (If No, skip question 3)

(If No, fill out Page Three of the ACO-1)

Shots Per Foot		PERFORATION Specify Fo		RD - Bridge P Each Interval I		be			ement Squeeze Record d of Material Used)	Depth
TUBING RECORD:	Si	ze:	Set At:		Packe	r At:	Liner R	un:	No	
Date of First, Resumed	d Product	ion, SWD or ENH	٦.	Producing M	lethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wat	er	Bbls.	Gas-Oil Ratio	Gravity
DIODOOIT		240.			METHOD					
DISPOSIT	d 🗌	Used on Lease		Open Hole	Perf.	OF COMPLE Dually (Submit)	Comp.	Commingled (Submit ACO-4)	PRODUCTION INTE	HVAL:
(If vented, Su	IDITIL ACC	-10.)		Other (Specify)	·					

Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	Boyd "A" 1-16
Doc ID	1232783

Tops

Name	Тор	Datum
Anhydrite	2664	536
Base Anhydrite	2689	511
Heebner	4063	-863
Lansing	4108	-908
Muncie Creek	4253	-1053
Stark	4338	-1138
ВКС	4414	-1214
Cherokee	4578	-1378
Johnson	4658	-1458
Mississippian	4734	-1534

Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	Boyd "A" 1-16
Doc ID	1232783

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	23	225	Common	3%CC, 2%gel

ALLIED OIL & GAS SERVICES, LLC 064293 Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999	SERVICE POINT:
SOUTHLAKE, TEXAS 76092	Oakley US
	10-21-414
	LED OUT ON LOCATION JOB START JOB FINISH
DATE 10-06-01 11 06-01 3TA	COUNTY STATE
LEASE BOUND A WELL# 1-14 LOCATION OCHAR	1 W to Rd 310 Logan KS
OLD OR NEW (Circle one)	Ninto
	S and
CONTRACTOR FILL & C	OWNER Jack
$\frac{\text{TYPE OF JOB}}{\text{HOLE SIZE}} = \frac{71/8}{71/8} \text{T.D.} \frac{4600}{1}$	CEMENT
<u></u>	AMOUNT ORDERED 255 SKS 60/40_
CASINC SIZE DEPTH TUBING SIZE DEPTH	47, gel 1/44 Eb-Seal
DRILL PIPE 417 DEPTH 2675	
TOOL	
PRES. MAX MINIMUM	COMMON@
MEAS, LINE SHOE JOINT	POZMIX@
CEMENT LEFT IN CSG.	GEL
PERFS.	ASC@
DISPLACEMENT Sty Loter, 25,9341 mud	Lite 2556 @ 18.92 4824.60
EQUIPMENT	
	e
PUMPTRUCK CEMENTER Faul Deaver	TTIGTER OND TONO HANDLOG
# 120 HELPER THER Flipse/Juan BULK TRUCK	
# 890/241 DRIVER Wayne Messalle	(1447.381303) e
BULK TRUCK	@
# DRIVER	HANDLING 273. 27 44 @ 2.48 677.20
	MILEAGE 11.44 Jonsy 15 mix 2:75 471.90
REMARKS:	TOTAL
MIY STO SKS @ 2675 DSpkewlynus	
mie 1005ks@ 11075 Displace linater	SERVICE
MY 50543 @ 275'	
mis 10 52 (240 61 0109	DEPTH OF JOB 2675
mil 30 stin Rollin	PUMP TRUCK CHARGE 247.3.57
mix ISSES in Mith.	EXTRA FOOTAGE@ MILEAGE <u>例(投) 15</u> @ 770 JJS7570
Thank the	MANIFOLD
Punt + UYW	MANIFOLD 15 @ 4.40 66.00
A LL A	@
CHARGETO: Colbalt Energy	1 1110 88 1202
CHARGE TO	(1/47,037,500) TOTAL 3,816,19
STREET	
CITYSTATEZIP	PLUG & FLOAT EQUIPMENT
	EST. 11 - Inches
	0 18 Industrial 13000
	A 16 Wooden phy @ 110.00
	• • • • • • • • • • • • • • • • • • •
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	TOTAL 1000
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)
I BKINS AND CONTRACTORYS ISIED ON MIC LEVELSE SIDE.	TOTAL CHARGES 8,750,79
<i>î</i>	
PRINTED NAME	DISCOULT THE PROPERTY OF A STREET
Sn. Annois	G158,55 Net
MANNING MANNI MARIA	
SIGNATURE	010000000
SIGNATORE	

 \mathbb{R}^{7}

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SERVICE POINT: Dakleyiks
DATE C-19-16 SEC. 16 TWP. 11 RANGE 34	CALLED OUT ONLOCATION JOB START JOB FINISH
LEASE DE VIT WELL # 1-16 LOCATION MOR OLD OR NEW (Circle one)	reculeur es co, 13, Logan K3
Λ.	Nr J
CONTRACTOR Marfin 22 TYPE OF JOB Sarface	OWNER Sauce
HOLE SIZE 1214 T.D. 225	CEMENT
CASING SIZE S THE DEPTH 224.80	AMOUNT OR DERED 1805Kg Corn 3% CC
TUBING SIZE DEPTH DRILL PIPE DEPTH	
TOOL DEPTH	18426
PRES. MAX MINIMUM MEAS. LINE SHOE JOINT	COMMON 180543 @17.90 3222.00 POZMIX@
CEMENT LEFT IN CSG. 151	
PERFS DISPLACEMENT /3-C/3	CHLORIDE
EQUIPMENT	@
	Mcherica Testera 3730.30
# 422 HELPER Lioune McChal	² (गाउँग रूप/ उठावरे [®]
# 422 HELPER Lingue McChaly BULK TRUCK	e
#333/308 DRIVER Marco Cada Maliak	@@
BULKTRUCK # DRIVER Kiko Mascorro G	<u>z</u> @
	HANDLING 1873+ @ 2.48 46872 MILEAGE 2224-2 13 x 2.75 359.70
REMARKS:	
Mix 180 stocement	
Displace work water Canad did a valate	SERVICE
	DEPTH OF JOB 224,881
	PUMP TRUCK CHARGE 1512.23
	EXTRA FOOTAGE @@ MILEAGE MITH 15 @ 7.90 115,50
	MANIFOLD Sedage @ 275.00
	MILL 13 @ 4,40 66.00
CHARGETO: Cotalt Charge	
STREET	(839.15 30% JOTAL 2, 797.17
CITYSTATEZIP	
Grand Charles Contraction Charles Contraction	PLUG & FLOAT EQUIPMENT
	@
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	TOTAL
contractor. I have read and understand the "GENERAL	ŚALEŚ TAX (If Any)
TERMS AND CONDITIONS" listed on the reverse side.	TOTAL CHARGES G, 57791
PRINTED MANE APOLA	
PRINTED NAME	
L.	4,609.57 Net
SIGNATURE	

and the second second



DRILL STEM TEST REPORT

Prepared For: Cobalt Energy LLC

PO Box 8037 Wichita KS. 67208

ATTN: Paul Gunzelman

Boyd " A" #1-16

16-11s-34w Logan,KS

Start Date: 2014.10.17 @ 23:32:00 End Date: 2014.10.18 @ 06:02:54 Job Ticket #: 57743 DST #: 1

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

Printed: 2014.10.22 @ 08:43:45

	DRILL STEM TES	T REP	ORT			
RILOBITE	Cobalt Energy LLC		16-11s	-34w Lo	gan,KS	
I ESTING, IN	PO Box 8037 Wichita KS. 67208		-	" A" #1-		
	ATTN: Paul Gunzelman			et: 57743 rt: 2014.10	DST# 0.17 @ 23:32:00	
GENERAL INFORMATION:						
Formation:LKC "K"Deviated:NoWhipstockTime Tool Opened:01:55:55Time Test Ended:06:02:54	ft (KB)		Test Typ Tester: Unit No:		entional Bottom F acLean	lole (Initial)
Interval:4337.00 ft (KB) ToTotal Depth:4370.00 ft (KB) (Hole Diameter:7.88 inchesH			Referen	ce Elevation KB to GR/	3189.0	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8674InsidePress@RunDepth:22.42 psigStart Date:2014.10.13Start Time:23:32:00TEST COMMENT:IF- Weak Surfa	End Date: End Time:	2014.10.18 06:02:54	Capacity: Last Calib.: Time On Btm: Time Off Btm		8000.0 2014.10.1 10.18 @ 01:55:4 10.18 @ 03:57:3	10
ISI- No Blow FF- No Blow FSI- No Blow Pressure v	Time	1	PRES	SURE S	UMMARY	
Cd 29M	BCP4 Temperature 0004 Temperature 000 000 000 000 000 000 000 0	Time (Min.) 0 1 32 61 67 91 122 122	Pressure (psig) Te (de 2302.65 19.33 12 29.95 12 447.67 12 21.80 12 367.75 12	emp An eg F) 20.92 Initia 9.83 Ope 20.79 Shuri 21.55 End 21.46 Ope 21.99 Shuri 22.64 End	notation Il Hydro-static n To Flow (1) t-ln(1)	
Recover				Gas Ra		
Length (ft) Description 5.00 100%mud with Oil Spectrum	Volume (bbl) ts 0.02			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
Trilobite Testing. Inc	Ref. No: 57743				.10.22 @ 08:43:	

	DRILL STEM TES	T REPO	ORT			
RILOBITE	Cobalt Energy LLC		16-11s-34	w Logan,	KS	
ESTING , INC	PO Box 8037		Boyd "A	A" #1-16		
	Wichita KS. 67208		Job Ticket:	57743	DST#:	:1
	ATTN: Paul Gunzelman		Test Start:	2014.10.17 @	23:32:00	
GENERAL INFORMATION:						
Formation:LKC "K"Deviated:NoWhipstock:Time Tool Opened:01:55:55Time Test Ended:06:02:54	ft (KB)		Test Type: Tester: Unit No:	Convention Will MacLea 71		ole (Initial)
Interval:4337.00 ft (KB) To43Total Depth:4370.00 ft (KB) (ThHole Diameter:7.88 inchesHole			Reference I	Elevations: B to GR/CF:		0 ft (KB) 0 ft (CF) 0 ft
Serial #: 8355OutsidePress@RunDepth:psigStart Date:2014.10.17Start Time:23:32:05	@ 4340.00 ft (KB) End Date: End Time:	2014.10.18 06:04:14	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 2014.10.18	
TEST COMMENT: IF- Weak Surface ISI- No Blow FF- No Blow FSI- No Blow Pressure vs. T		1	DECOL			
200 +	mic 5355 Temperature	Time	PRESSU Pressure Temp	JRE SUMM		
Cd 294		(Min.)	(psig) (deg F		-	
Recovery			G	Bas Rates		
Length (ft) Description	Volume (bbl)		Chok	e (inches) Press	ure (psig)	Gas Rate (Mcf/d)
5.00 100%mud with Oil Spots	0.02					

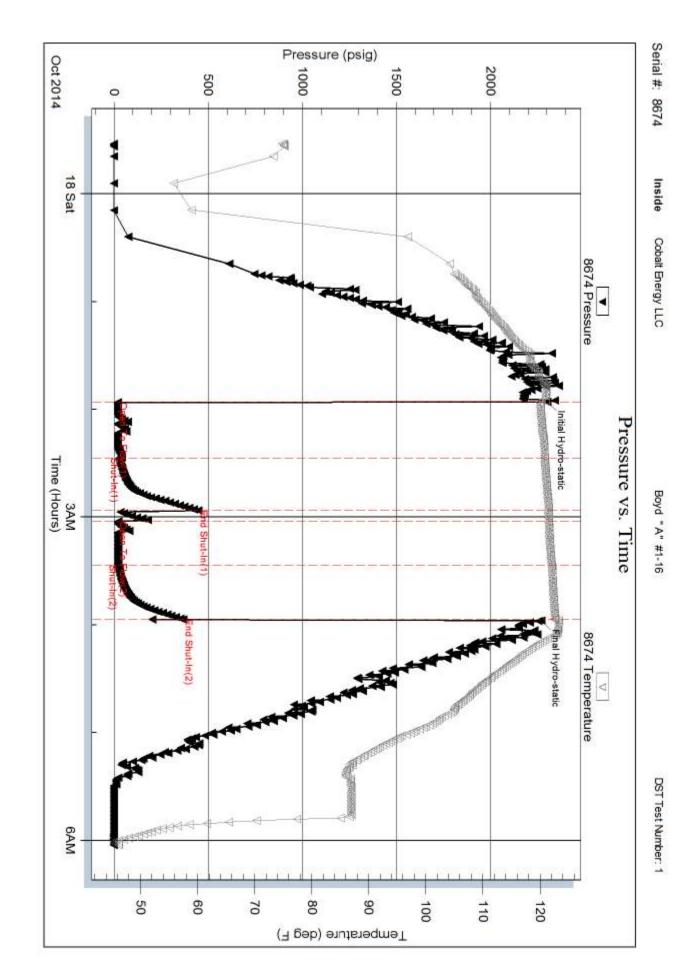
Drifter STEWTTEST REPORT Tool E Cobalt Energy LLC 16-11s-34w Logan,KS PO Box 8037 Boyd "A" #1-16 Wichita KS. 67208 Job Ticket: 57743 ATTN: Paul Gunzelman Tool Information Test Start: 2014.10.17 @ 23:32:00 Drill Pipe: Length: 4103.00 ft Heavy Wt. Pipe: Length: 2000.00 lb Diameter: 0.00 inches Volume: 57.55 bbl Drill Collar: Length: 235.00 ft Diameter: Drill Pipe Above KB: 28.00 ft Depth to Top Packer: 4337.00 ft Depth to Top Packer: ft Interval betw een Packers: 33.00 ft Number of Packers: 2 2 Diameter: 2 Diameter: 6.75 inches	DST#: 1 23:32:00 2000.00 lb 28000.00 lb	Boyd " A" #1-16 Job Ticket: 57743 Test Start: 2014.10.17 @		nan	8037 KS. 67208	Wichita	TING , INC	ES1	膩
Wichita KS. 67208Job Ticket: 57743DST#:1ATTN: Paul GunzelmanTest Start: 2014.10.17 @ 23:32:00Tool InformationDrill Pipe:Length: 4103.00 ftDiameter:3.80 inches Volume:57.55 bblHeavy Wt. Pipe:Length:0.00 ftDiameter:0.00 inches Volume:0.00 bblDrill Collar:Length:235.00 ftDiameter:2.25 inches Volume:1.16 bblDrill Pipe Above KB:28.00 ftDiameter:2.25 inches Volume:58.71 bblDrill Pipe Above KB:28.00 ftFtFt64000.00 lbDepth to Top Packer:4337.00 ftFtFinal64000.00 lbDepth to Bottom Packer:ftFinal64000.00 lbFinal60.00 ftFinalFinal64000.00 lb	23:32:00 2000.00 lb 28000.00 lb	Job Ticket: 57743 Test Start: 2014.10.17 @		nan	KS. 67208	Wichita	TING , INC	 ES1	
Job Ticket: 57743DST#:1ATTN:Paul GunzelmanTest Start: 2014.10.17 @ 23:32:00Tool InformationDiameter:3.80 inches Volume:57.55 bblDrill Pipe:Length:0.00 ftDiameter:0.00 inches Volume:0.00 bblHeavy Wt. Pipe:Length:0.00 ftDiameter:0.00 inches Volume:0.00 bblDrill Collar:Length:235.00 ftDiameter:2.25 inches Volume:1.16 bblDrill Pipe Above KB:28.00 ftDiameter:2.25 inches Volume:58.71 bblDrill Pipe Above KB:28.00 ftFinal64000.00 lbDepth to Top Packer:4337.00 ftFinal64000.00 lbFinal60.00 ftFinal64000.00 lb	23:32:00 2000.00 lb 28000.00 lb	Test Start: 2014.10.17 @		nan					
Tool Information Drill Pipe: Length: 4103.00 ft Diameter: 3.80 inches Volume: 57.55 bbl Tool Weight: 2000.00 lb Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl Weight set on Packer: 2800.00 lb Drill Collar: Length: 235.00 ft Diameter: 2.25 inches Volume: 1.16 bbl Weight to Pull Loose: 12000.00 lb Drill Pipe Above KB: 28.00 ft Diameter: 58.71 bbl Tool Chased ft Depth to Top Packer: 4337.00 ft Final 64000.00 lb Final 64000.00 lb Final 60.00 ft 60.00 ft Final 64000.00 lb Final Final	2000.00 lb 28000.00 lb			nan	Paul Gunzel	ATTN:			6131
Drill Pipe:Length:4103.00 ftDiameter:3.80 inches Volume:57.55 bblTool Weight:2000.00 lbHeavy Wt. Pipe:Length:0.00 ftDiameter:0.00 inches Volume:0.00 bblWeight set on Packer:2800.00 lbDrill Collar:Length:235.00 ftDiameter:2.25 inches Volume:1.16 bblWeight to Pull Loose:12000.00 lbDrill Pipe Above KB:28.00 ftDiameter:58.71 bblTool ChasedftDepth to Top Packer:4337.00 ftFtFinal64000.00 lbInterval betw een Packers:33.00 ftFtFinal64000.00 lbTool Length:60.00 ftFtFinalFinalFinal	28000.00 lb	Tool Weight:							MORE .
Heavy Wt. Pipe:Length:0.00 ftDiameter:0.00 inches Volume:0.00 bblWeight set on Packer:2800.00 lbDrill Collar:Length:235.00 ftDiameter:2.25 inches Volume:1.16 bblWeight to Pull Loose:12000.00 lbDrill Pipe Above KB:28.00 ftTotal Volume:58.71 bblTotal Volume:58.71 bblTotal Volume:64000.00 lbDepth to Top Packer:4337.00 ftFinal64000.00 lbFinal64000.00 lbDepth to Bottom Packer:ftFinal64000.00 lbFinalInterval betw een Packers:33.00 ftFinal64000.00 lbTool Length:60.00 ftFinalFinal64000.00 lb	28000.00 lb	Tool Weight:				ļ		n	Tool Informatic
Drill Collar:Length:235.00 ftDiameter:2.25 inches Volume:1.16 bblWeight to Pull Loose:1200.00 lbDrill Pipe Above KB:28.00 ftTotal Volume:58.71 bblTool ChasedftDepth to Top Packer:4337.00 ft64000.00 lbDepth to Bottom Packer:ftftftInterval betw een Packers:33.00 ft64000.00 lbTool Length:60.00 ftft			57.55 bbl	hes Volume:	3.80 in	Diameter:	4103.00 ft	Length:	Drill Pipe:
Total Volume:58.71 bblTool ChasedftDrill Pipe Above KB:28.00 ftTotal Volume:58.71 bblTool ChasedftDepth to Top Packer:4337.00 ftString Weight:Initial64000.00 lbDepth to Bottom Packer:ftFinal64000.00 lbInterval betw een Packers:33.00 ftString Weight:InitialTool Length:60.00 ftString Weight:String Weight:	12000.00 lb	Weight set on Packer:	0.00 bbl	hes Volume:	0.00 in	Diameter:	0.00 ft	Length:	Heavy Wt. Pipe:
Drill Pipe Above KB:28.00 ftString Weight:Initial64000.00 lbDepth to Top Packer:4337.00 ftFinal64000.00 lbDepth to Bottom Packer:ftInterval betw een Packers:33.00 ftTool Length:60.00 ft		Weight to Pull Loose:	1.16 bbl	hes Volume:	2.25 in	Diameter:	235.00 ft	Length:	Drill Collar:
Depth to Top Packer:4337.00 ftFinal64000.00 lbDepth to Bottom Packer:ftInterval betw een Packers:33.00 ftTool Length:60.00 ft	ft	Tool Chased	58.71 bbl	Total Volume:			20 00 44	/D·	
Depth to Bottom Packer: ft Interval betw een Packers: 33.00 ft Tool Length: 60.00 ft		String Weight: Initial							•
Interval betw een Packers: 33.00 ft Tool Length: 60.00 ft	64000.00 lb	Final							
Tool Length: 60.00 ft									•
				hes	6.75 in	Diameter:		rs:	0
Tool Comments:									Tool Comments:
Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths		cum. Lengths	Depth (ft) Ac	Position	Serial No.	ngth (ft)	Lei	on	Tool Description
Change Over Sub 1.00 4311.00			4311.00			1.00		D	Change Over Sul
Shut In Tool 5.00 4316.00			4316.00			5.00			Shut In Tool
			4321.00			5.00			Hydraulic tool
Hydraulic tool 5.00 4321.00			4326.00			5.00			Jars
			4328.00			2.00			Safety Joint
Jars 5.00 4326.00	Bottom Of Top Packe	27.00	4333.00			5.00			-
Jars 5.00 4326.00 Safety Joint 2.00 4328.00			4337.00			4.00			Packer
Jars 5.00 4326.00 Safety Joint 2.00 4328.00 Packer 5.00 4333.00 27.00 Bottom Of Text			4338.00			1.00			Stubb
Jars 5.00 4326.00 Safety Joint 2.00 4328.00 Packer 5.00 4333.00 27.00 Bottom Of To Packer 4.00 4337.00 27.00 Bottom Of To						2.00			Perforations
Jars 5.00 4326.00 Safety Joint 2.00 4328.00 Packer 5.00 4333.00 27.00 Bottom Of Te Packer 4.00 4337.00 Stubb 1.00 4338.00						2.00			
Jars 5.00 4326.00 Safety Joint 2.00 4328.00 Packer 5.00 4333.00 27.00 Bottom Of To Packer 4.00 4337.00 Stubb 1.00 4338.00 Perforations 2.00 4340.00			4340.00	Outside	8355				
Jars 5.00 4326.00 Safety Joint 2.00 4328.00 Packer 5.00 4333.00 27.00 Bottom Of To Packer 4.00 4337.00 Stubb 1.00 4338.00 Perforations 2.00 8355 Outside 4340.00			4340.00 4340.00			0.00			Recorder
Jars 5.00 4326.00 Safety Joint 2.00 4328.00 Packer 5.00 4333.00 27.00 Bottom Of To Packer 4.00 4337.00 Stubb 1.00 4338.00 Perforations 2.00 8355 Outside 4340.00			4340.00 4340.00 4340.00			0.00 0.00			Recorder Recorder

() Tou on		ILL STEM TEST F	REPORT	-	F	LUID SU	MMAR
	IIE Cobal	t Energy LLC		16-11s-34	w Logan,KS		
EST.		ox 8037 ta KS. 67208	Boyd " A" #1-16 Job Ticket: 57743 DST				
	ATTN	: Paul Gunzelman			2014.10.17 @ 23:	DST#:1 32:00	
Aud and Cushion Info	rmation						
lud Type: Gel Chem	Jination	Cushion Type:			Oil API:		deg AP
lud Weight: 9.00 ll	o/gal	Cushion Length:		ft	Water Salinity:		ppm
iscosity: 55.00 s		Cushion Volume:		bbl			PP
/ater Loss: 6.39 in		Gas Cushion Type:					
esistivity: c	hm.m	Gas Cushion Pressure		psig			
alinity: 2800.00 p lter Cake: 1.00 ir							
ecovery Information							
-		Recovery Table					
	Length ft	Description		Volume bbl			
	5.00	100%mud with Oil Spots		0.02	5		
Tot	tal Length:	5.00 ft Total Volume:	0.025 bbl				
Lal	m Fluid Samples: 0 boratory Name: covery Comments:	Num Gas Bombs: Laboratory Locatio	0 n:	Serial #			

Printed: 2014.10.22 @ 08:43:46

Ref. No: 57743

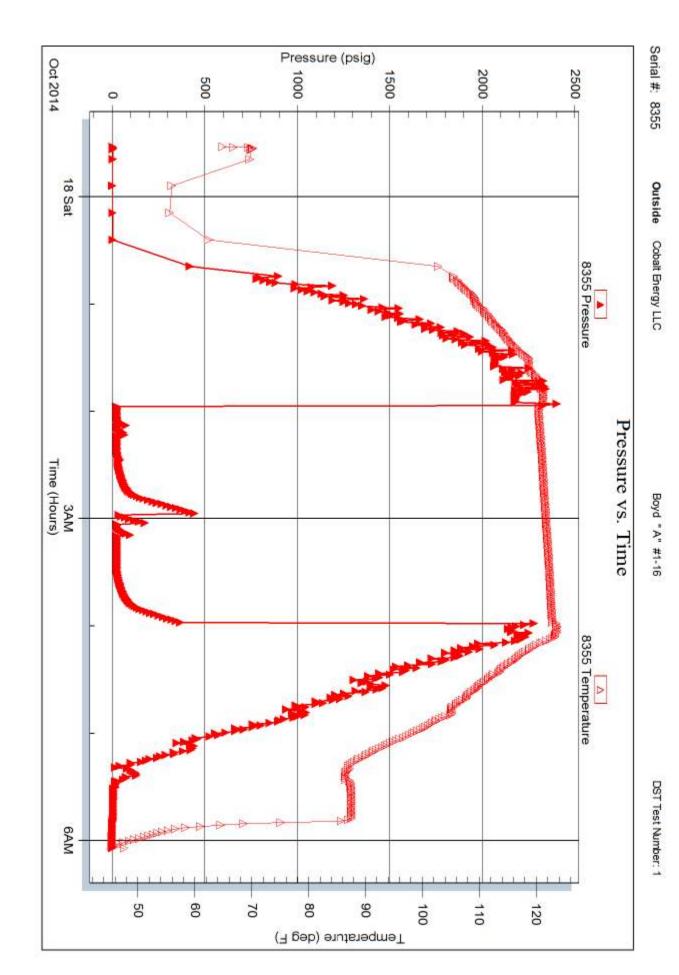
Trilobite Testing, Inc



Printed: 2014.10.22 @ 08:43:46

Ref. No: 57743

Trilobite Testing, Inc

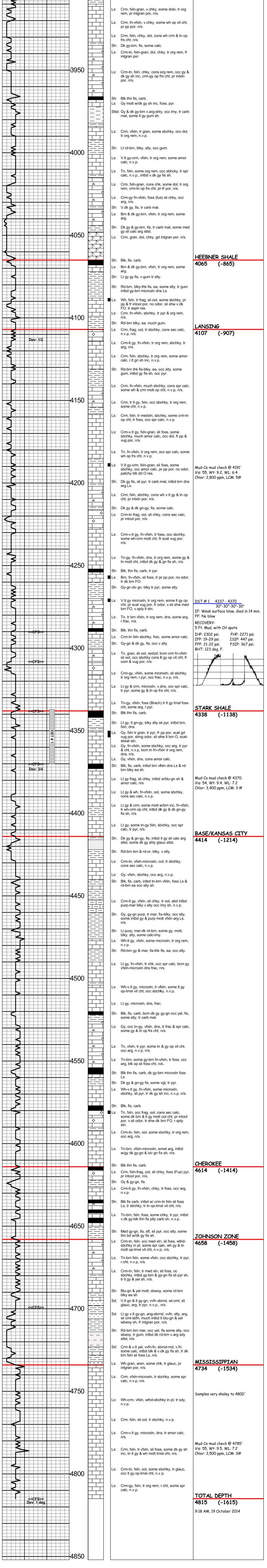


4/10 RILOBITE ESTING INC. 1515 Commerce Parkway	• Hays, Kansas 67601	J	NO.	icket 57743	
Well Name & No. Boyd "A" #1-16 Company Cobalt Energy LLC Address Po Box 8037 Wich	Fa KS 6720	_ Elevation35	200	ate <u>10-17-1</u> КВ <u>3189</u>	GL
Co. Rep / Geo. <u>Paul Gunzelman</u> Location: Sec. <u>16</u> Twp. <u>115</u>	_Rge34w	_ Rig Murti Co Logar		StateKS	<u>.</u>
Interval Tested <u>4337 - 4370</u> Anchor Length <u>33</u> Top Packer Depth <u>4333</u> Bottom Packer Depth <u>4337</u> Total Depth <u>4370</u> Blow Description <u>TF-Weak Surface</u>	Zone Tested Drill Pipe Run Drill Collars Run Wt. Pipe Run Chlorides28	4103 235 0 20 ppm :	Vis	6.4	
FF- No Blow FF- No Blow FSI-No Blow Rec_5_Feet of Mud with O.1	Spots	%gas	%oil	%water / C	K %mud
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	Image: Test	<u><i>R/T</i></u> <u>x</u> <u>2</u> .10+189.10	T-On Locat T-Started _ T-Open T-Pulled T-Out Comments <i>flc cal</i> <i>l0-19-</i> Ruined Ruined Ruined Sub Total Total	23:32 1:55 3:57 6:02	teds
Approved By Jand Some Complement		3.20 Representative	Jumpan	_	

REMARKS										
API 15-109-21351-00-0	0									
Drilling Fluids: Mud-Co/Service Mud, Inc. (Reid Atkins, engineer)										
Drill Stem Testing: Trilobite Testing, Inc. (Will MacLean, tester)										
Gas Trailer: No Gas Trailer										
Reserve Pit Chlorides: 11,000 PPM										
DRILL TIME (MIN/FT)		LITH	SF							
	DEPTH	LITHOLOGY	SHOWS	SAMPLE DESCRIPTIONS	REMARKS					

	650	STONE CORRAL
		2662 (+538) BASE/ANHYDRITE
27	700	2689 (+511)

								2000	
								53900	
	2								
	2								



Operator:	COBALT ENERGY, LLC	:			
Lease:	BOYD 'A' # 1-16				
Location:	406 FSL & 1669 FEL	SEC. <u>16</u> TWSP	11S	RGE_34W	
County:	LOGAN	State: KANSAS			