Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1158702

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 # 34579
Name: Cobalt Energy LLC
Address 1: 115 S. BELMONT #12
Address 2: PO BOX 8037
City: WICHITA State: KS Zip: 67208 + __ __ __ __
Contact Person: Nicholas D. Hess
Phone: (316) 201-4101
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Paul Gunzelman
Purchaser: NCRA

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

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

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

8/10/2013	8/17/2013	9/11/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-065-23959-00-00
Spot Description:
SW NW SW SE Sec. 19 Twp. 6 S. R. 25 ☐ East ☑ West
836 Feet from ☐ North / ☑ South Line of Section
2599 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Graham
Lease Name: SD Unit 'A' Well #: 1-19
Field Name: Allodium
Producing Formation: LKC
Elevation: Ground: 2597 Kelly Bushing: 2602
Total Vertical Depth: 3925 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 345 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 2147 Feet
If Alternate II completion, cement circulated from: 3925
feet depth to: w/ 150 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 21000 ppm Fluid volume: 750 bbls
Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

☑ **Confidentiality Requested**
Date: 09/17/2013
☑ **Confidential Release Date:** 09/17/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 09/19/2013

1158702

Operator Name: Cobalt Energy LLC Lease Name: SD Unit 'A' Well #: 1-19

Sec. 19 Twp. 6 S. R. 25 ☐ East ☑ West County: Graham

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Dual-Induction
Neutron Density
Microlog

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Anhydrite	2169	433
Base Anhydrite	2203	399
Topeka	3429	-827
Heebner	3634	-1032
Lansing	3672	-1070
Stark	3826	-1224
BKC	3863	-1261

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	345	Common	250	3%CC, 2%gel
Production	7.75	5.5	15.5	3919	EA2	150	10%salt,5%calseal

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	-			
	-			

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

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

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4	3835-3840 LKC K	250gal 15%MCA, 750gal 15%NEFE	
4	3819-3823 LCK J	250gal 15%MCA, 750gal 15%NEFE	

TUBING RECORD: Size: 2.375 Set At: 3874 Packer At: Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 9/11/2013

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	155		10		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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

Kansas
Corporation Commission

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

September 17, 2013

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

Re: ACO1
API 15-065-23959-00-00
SD Unit 'A' 1-19
SE/4 Sec.19-06S-25W
Graham County, Kansas

Dear Production Department:

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

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

Respectfully,
Nicholas D. Hess

ALLIED OIL & GAS SERVICES, LLC 060214

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley, KS

DATE 8-10-13	SEC. 19	TWP. 6S	RANGE 32W	CALLED OUT	ON LOCATION 7:30pm	JOB START 7:30pm	JOB FINISH 8:00pm
LEASE Spaugh	WELL # 1-19	LOCATION Studley East to 103 rd, ½ E.				COUNTY Graham	STATE KS
OLD OR NEW (Circle one)		Unito					

CONTRACTOR Murfin 16
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 346.6'
CASING SIZE 8⅝ DEPTH 345.87
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 21.18

EQUIPMENT

PUMP TRUCK # 423/281 CEMENTER LaRue Eckert
HELPER Paul Beaver
BULK TRUCK # 347 DRIVER Chris Helpingstine
BULK TRUCK # DRIVER

OWNER Same

CEMENT
AMOUNT ORDERED 230 sks Com 3% CC 2% Gel

COMMON	230 sks	@ 17.90	4117.00
POZMIX		@	
GEL	5 sks	@ 23.40	117.00
CHLORIDE	9 sks	@ 64.00	576.00
ASC		@	
HANDLING	247.33 CF	@ 2.48	670.42
MILEAGE	1234 sks X 65 X 2.60		2085.46
		TOTAL	7923.88

REMARKS:
Mix 230 sks cement
Displace with water
Cement did circulate
Thank you

SERVICE

DEPTH OF JOB	345.87'		
PUMP TRUCK CHARGE			1312.25
EXTRA FOOTAGE		@	
MILEAGE	Mileage 65	@ 7.70	500.50
MANIFOLD	Swedge	@	273.25
Mileage	65	@ 4.40	286.00
		@	
		TOTAL	2373.75

CHARGE TO: Cobalt Energy
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

		@	
		@	
		@	
		@	
		@	
		TOTAL	

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

SALES TAX (If Any)
TOTAL CHARGES 10,497.63
DISCOUNT 2,309.47 IF PAID IN 30 DAYS
8,188.15 Net.

PRINTED NAME AFD
SIGNATURE Ag Seekel

SWIFT Services, Inc.

CHARGE TO: COLBALT ENERGY
ADDRESS
CITY, STATE, ZIP CODE

TICKET Nº 24600

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. NESS CITY, KS.		SDWIT "A" 1-19	GRAHAM	KS.	STUDLEY, KS	17AUG13	
2.	TICKET TYPE ☐ SERVICE ☐ SALES — CONTRACTOR: MURFIN DRILLING #16	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO		ORDER NO.	
3.	WELL TYPE: OIL	WELL CATEGORY: DEVELOPMENT	JOB PURPOSE: 5½ LONGSTRING	WELL PERMIT NO.		WELL LOCATION: 10-2N-½E, N INTO	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575					MILEAGE #115	80	MIL			1.00	480.00
579					PUMP CHARGE	1	JOB			2000.00	2000.00
402					CENTRALIZERS	7	EA.			70.00	490.00
403					CEMENT BASKET	1	EA.			285.00	285.00
407					INSERT FLOAT SHOE W/AUTO FILL	1	EA			375.00	375.00
408					DV TOOL & PLUG SET	1	EA.			3300.00	3300.00
417					DV LATCH DOWN PLUG & BAFFLE	1	EA.			200.00	200.00
419					ROTATING HEAD RENTAL	1	JOB			200.00	200.00
281					MUD FLUSH	500	GAL			1.25	625.00
221					LIQUID KCL	4	GAL			25.00	100.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY,** and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X [signature]

DATE SIGNED: 17AUG13 TIME SIGNED: 1445 ☐ A.M. ☒ P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE? ☐ YES ☐ NO

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 1	8,055.00
2	10,876.80
Subtotal	18931.80
Graham TAX 7.4%	1,019.65
TOTAL	19,951.45

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR [signature] APPROVAL

Thank You!

SWIFT Services, Inc.

PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 24600

CUSTOMER COBALT ENERGY | WELL SDWIT A 1-19 | DATE 7AU613 | PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	TIME	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
276						FLOCELE	110	lbs			2.00	220.00
283						SALT	1000	lbs			.20	200.00
284						CALSEAL	9	SX			35.00	315.00
285						CFR-1	100	lbs			4.00	400.00
290						D-AIR	4½	gal			42.00	189.00
325						STANDARD CEMENT EA-2	200	SX			14.00	2800.00
330						SMD CEMENT	240	SX			17.00	4080.00
581						SERVICE CHARGE	CUBIC FEET 440	SX			2.00	880.00
583						MILEAGE CHARGE TOTAL WEIGHT 44820 LOADED MILES 80	TON MILES 1792.80				1.00	1792.80

CONTINUATION TOTAL 10,876.80

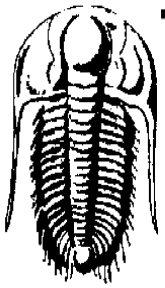
JOB LOG

SWIFT Services, Inc.

DATE 7 AUG 13 | PAGE NO.

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
COLBALT ENERGY		SD UNIT A 1-19	5½ LONGSTRING	24600

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0830							ON LOCATION
	0855							START PIPE - 5½ - 15.5 #
								RTD 3925 SET @
								SHOE JT. 42
								CENTRALIZERS. 1, 3, 5, 7, 9, 11, 40
								BASKET 41
								DV ON #42 @ 2153'
	1036							DROP BALL - CIRCULATE
	1133	6	12		✓		300	PUMP 500 GAL MUD FLUSH
		6	20		✓		300	PUMP 20 BBL KCL FLUSH
	1138		7.5		✓			PLUG RH - 30 SX, MH - 20 SX
	1142	4	36		✓			MIX 150 SX EA-2
	1155							WASH OUT PUMP & LINES
	1157	6			✓			START DISPLACING PLUG
	1213	Ø	92		✓		1500	PLUG DOWN LATCH PLUG IN
	1215							RELEASE PSI - DRY
	1216							DROP DV OPENING TOOL
	1226				✓		1100	OPEN DV. - CIRCULATE
	1330	6	20		✓		200	PUMP 20 BBL KCL FLUSH
	1333	6	133		✓			MIX 240 SX SMD
	1357							WASH OUT PUMP & LINES
	1400	6			✓			START DISPLACING CLOSING TOOL/PLUG
	1410	Ø	5½		✓		1500	PLUG DOWN CLOSE DV TOOL
	1412							RELEASE PSI - DRY
								CIRCULATE 10 SX TO PIT
	1415							WASH TRUCK
	1445							JOB COMPLETE
								THANKS # 115
								JASON JEFF ROB



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

SD Unit "A" #1-19

19-6s-25w Graham,KS

Start Date: 2013.08.14 @ 06:48:22
End Date: 2013.08.14 @ 15:02:22
Job Ticket #: 041073 DST #: 1

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

Printed: 2013.08.20 @ 16:02:57

DRILL STEM TEST REPORT

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

19-6s-25w Graham,KS

SD Unit "A" #1-19

Job Ticket: 041073 **DST#: 1**

Test Start: 2013.08.14 @ 06:48:22

GENERAL INFORMATION:

Formation: **LKC C-D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:25:22
Time Test Ended: 15:02:22

Test Type: Conventional Bottom Hole (Initial)
Tester: Jeff Brown
Unit No: 67

Interval: 3688.00 ft (KB) To 3728.00 ft (KB) (TVD)
Total Depth: 3728.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

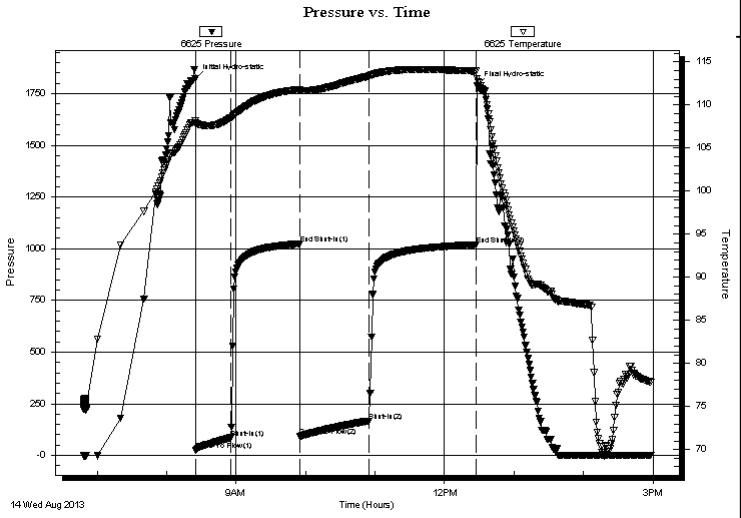
Reference Elevations: 2602.00 ft (KB)
2597.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6625 **Outside**

Press@RunDepth: 167.12 psig @ 3723.00 ft (KB)
Start Date: 2013.08.14 End Date: 2013.08.14
Start Time: 06:48:23 End Time: 14:58:22

Capacity: 8000.00 psig
Last Calib.: 2013.08.14
Time On Btm: 2013.08.14 @ 08:24:52
Time Off Btm: 2013.08.14 @ 12:27:52

TEST COMMENT: IFP=Good blow BOB in 12 min
ISI=Weak blow built to 1/4"
FFP=Good bloa BOB in 17 min
FSI=Weak blow back built to 1/4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1824.34	108.14	Initial Hydro-static
1	25.25	107.88	Open To Flow (1)
31	85.10	108.52	Shut-In(1)
90	1023.52	111.80	End Shut-In(1)
91	93.78	111.68	Open To Flow (2)
150	167.12	113.34	Shut-In(2)
242	1019.85	113.93	End Shut-In(2)
243	1790.21	113.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	MW with a scum of oil 10%M 90%W	3.28
63.00	VSOCGWM 2%O 8%G 20%W 70%M	0.88
63.00	GMCO 5%G 40%M 55%O	0.88
25.00	Gassy Oil 10%G 90%O	0.35
0.00	283-GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

19-6s-25w Graham,KS

SD Unit "A" #1-19

Job Ticket: 041073 **DST#: 1**

Test Start: 2013.08.14 @ 06:48:22

GENERAL INFORMATION:

Formation: **LKC C-D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:25:22
Time Test Ended: 15:02:22

Test Type: Conventional Bottom Hole (Initial)
Tester: Jeff Brown
Unit No: 67

Interval: 3688.00 ft (KB) To 3728.00 ft (KB) (TVD)
Total Depth: 3728.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

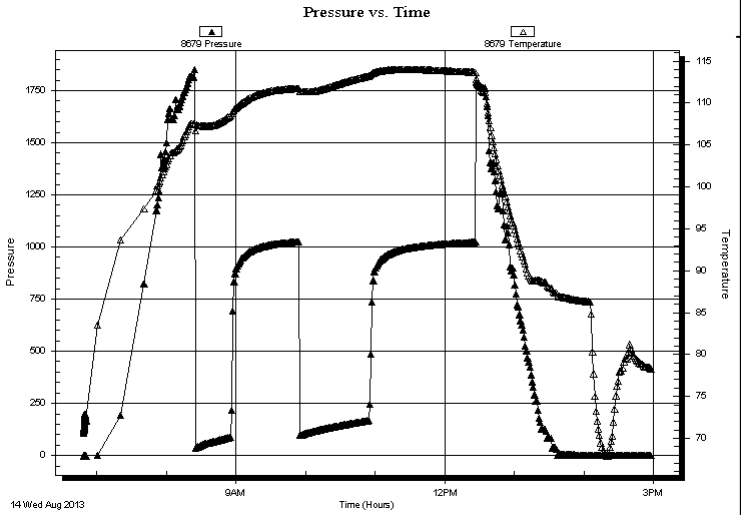
Reference Elevations: 2602.00 ft (KB)
2597.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8679 **Inside**

Press@RunDepth: psig @ 3723.00 ft (KB)
Start Date: 2013.08.14 End Date: 2013.08.14
Start Time: 06:48:52 End Time: 14:57:21

Capacity: 8000.00 psig
Last Calib.: 2013.08.14
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP=Good blow BOB in 12 min
ISI=Weak blow built to 1/4"
FFP=Good bloa BOB in 17 min
FSI=Weak blow back built to 1/4"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
252.00	MW with a scum of oil 10%M 90%W	3.28
63.00	VSOCGWM 2%O 8%G 20%W 70%M	0.88
63.00	GMCO 5%G 40%M 55%O	0.88
25.00	Gassy Oil 10%G 90%O	0.35
0.00	283-GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

19-6s-25w Graham,KS

SD Unit "A" #1-19

Job Ticket: 041073 **DST#: 1**

Test Start: 2013.08.14 @ 06:48:22

Tool Information

Drill Pipe:	Length:	3646.00 ft	Diameter:	3.80 inches	Volume:	51.14 bbl	Tool Weight:		2200.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:		22000.00 lb
Drill Collar:	Length:	28.00 ft	Diameter:	2.25 inches	Volume:	0.14 bbl	Weight to Pull Loose:		60000.00 lb
					Total Volume:	51.28 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		14.00 ft					String Weight:	Initial	52000.00 lb
Depth to Top Packer:		3688.00 ft						Final	55000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		40.00 ft							
Tool Length:		68.00 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			3661.00		
Shut In Tool	5.00			3666.00		
Hydraulic tool	5.00			3671.00		
Jars	5.00			3676.00		
Safety Joint	3.00			3679.00		
Packer	4.00			3683.00	28.00	Bottom Of Top Packer
Packer	5.00			3688.00		
Stubb	1.00			3689.00		
Perforations	2.00			3691.00		
Change Over Sub	1.00			3692.00		
Drill Pipe	30.00			3722.00		
Change Over Sub	1.00			3723.00		
Recorder	0.00	6625	Outside	3723.00		
Recorder	0.00	8679	Inside	3723.00		
Perforations	2.00			3725.00		
Bullnose	3.00			3728.00	40.00	Bottom Packers & Anchor
Total Tool Length:	**68.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

19-6s-25w Graham,KS

SD Unit "A" #1-19

Job Ticket: 041073 **DST#: 1**

Test Start: 2013.08.14 @ 06:48:22

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	31 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1100.00 ppm				
Filter Cake:	inches				

Recovery Information

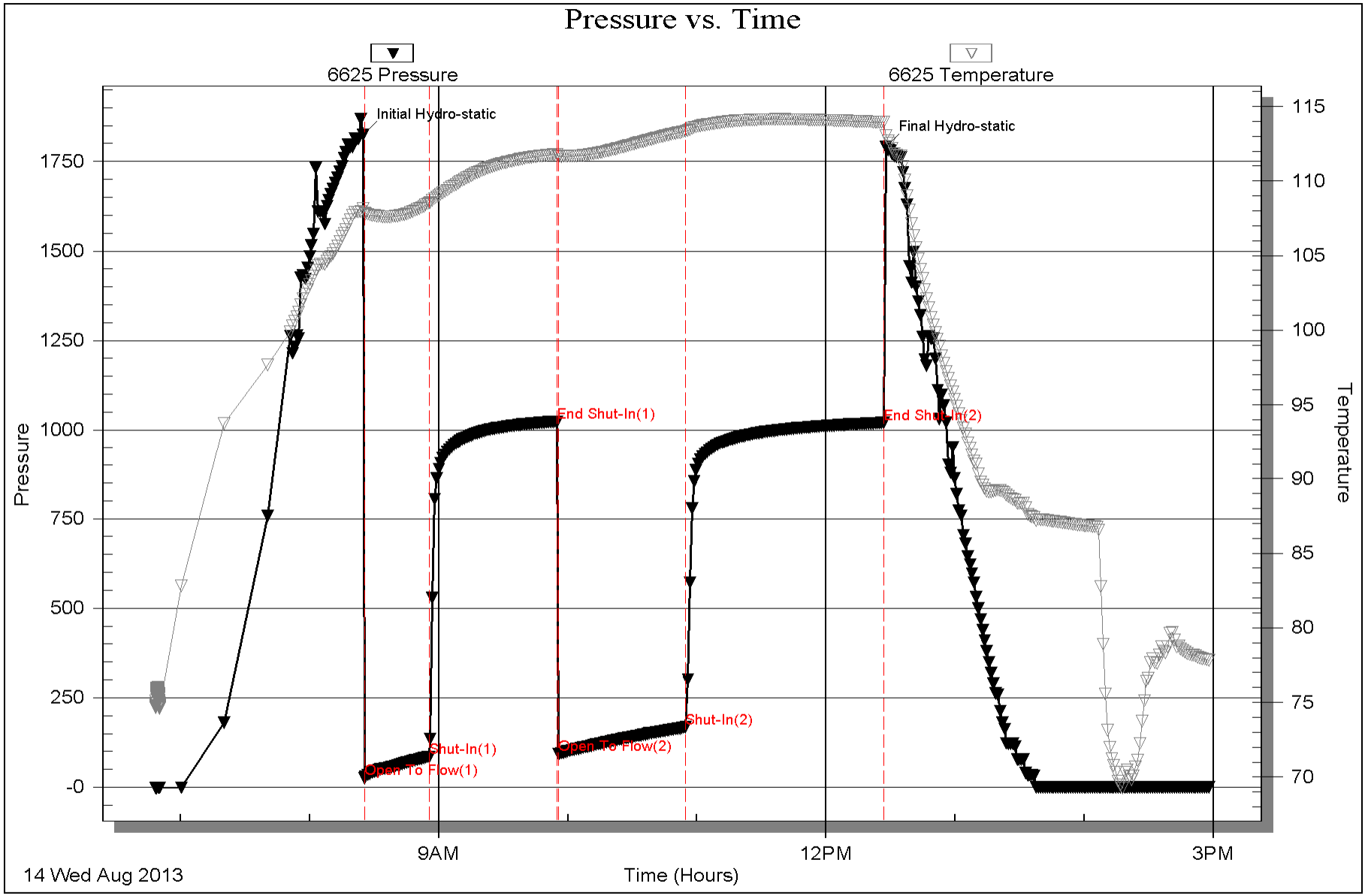
Recovery Table

Length ft	Description	Volume bbl
252.00	MW with a scum of oil 10%M 90%W	3.280
63.00	VSOCGWM 2%O 8%G 20%W 70%M	0.884
63.00	GMCO 5%G 40%M 55%O	0.884
25.00	Gassy Oil 10%G 90%O	0.351
0.00	283-GIP	0.000

Total Length: 403.00 ft Total Volume: 5.399 bbl

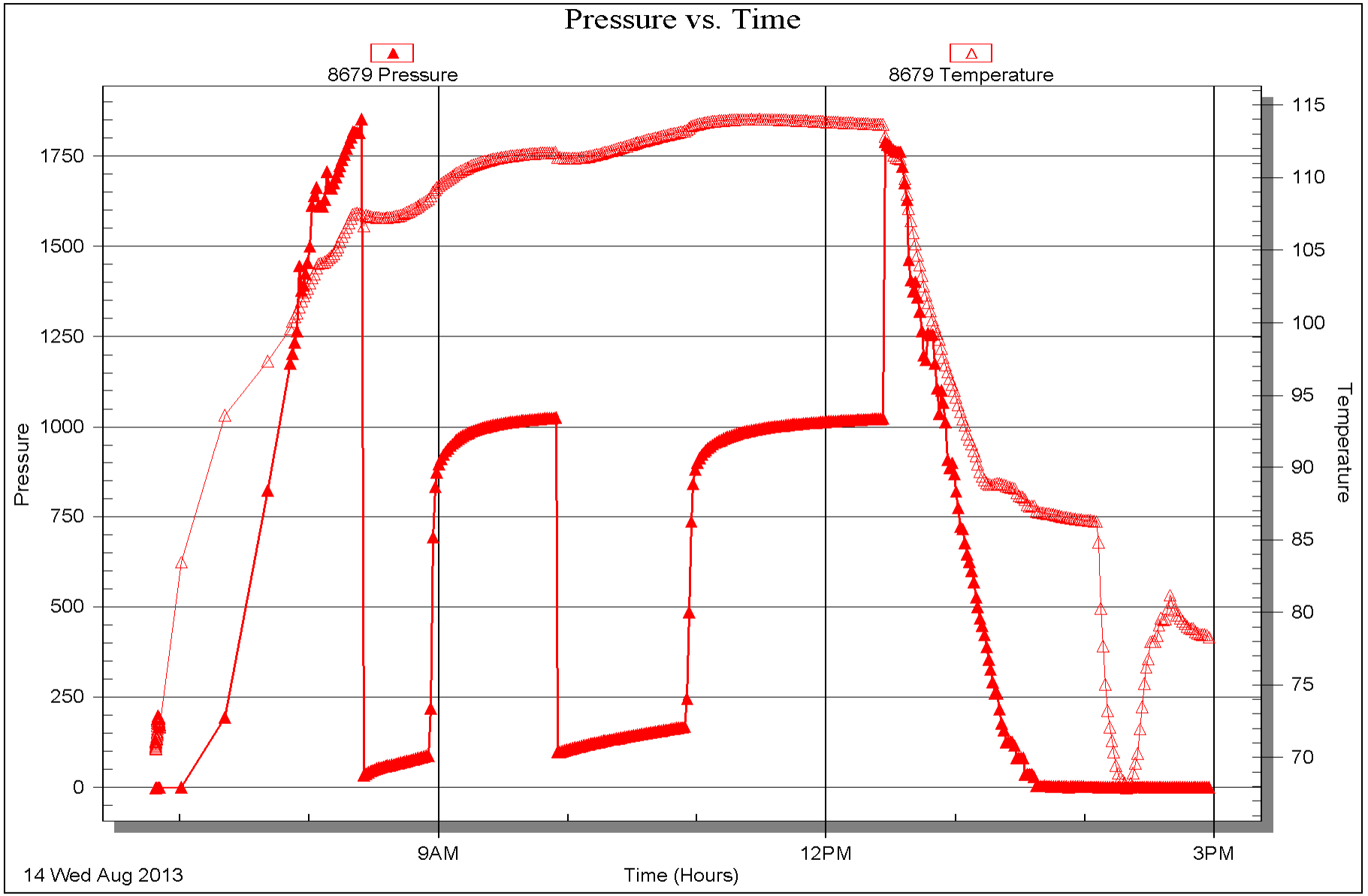
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6625 **Outside** Cobalt Energy LLC SD Unit "A" #1-19 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 041073 Printed: 2013.08.20 @ 16:02:59

Serial #: 8679 **Inside** Cobalt Energy LLC SD Unit "A" #1-19 DST Test Number: 1



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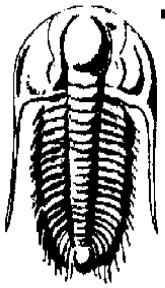


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

SD Unit "A" #1-19

19-6s-25w Graham,KS

Start Date: 2013.08.14 @ 22:51:41
End Date: 2013.08.15 @ 06:01:11
Job Ticket #: 041074 DST #: 2

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

Printed: 2013.08.20 @ 16:01:58

DRILL STEM TEST REPORT

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

19-6s-25w Graham,KS

SD Unit "A" #1-19

Job Ticket: 041074 **DST#: 2**

Test Start: 2013.08.14 @ 22:51:41

GENERAL INFORMATION:

Formation: **LKC E-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:15:41
Time Test Ended: 06:01:11

Test Type: Conventional Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 67

Interval: 3727.00 ft (KB) To 3774.00 ft (KB) (TVD)
Total Depth: 3728.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

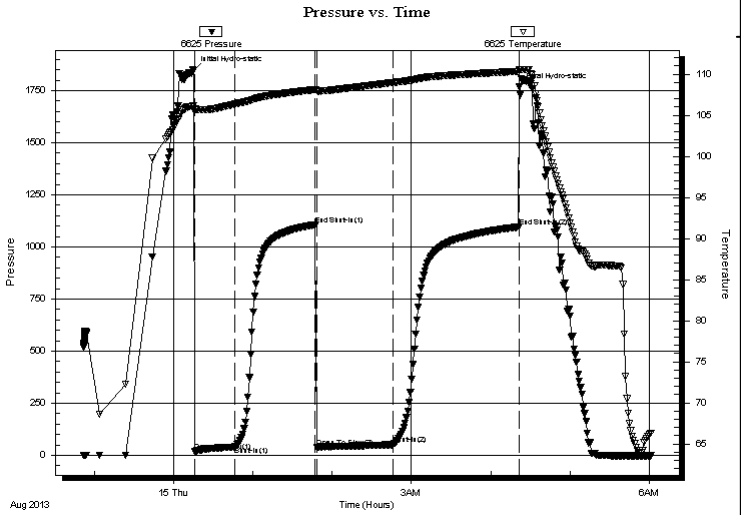
Reference Elevations: 2602.00 ft (KB)
2597.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6625 **Outside**

Press@RunDepth: 51.10 psig @ 3766.00 ft (KB)
Start Date: 2013.08.14 End Date: 2013.08.15
Start Time: 22:51:42 End Time: 06:01:11

Capacity: 8000.00 psig
Last Calib.: 2013.08.15
Time On Btm: 2013.08.15 @ 00:15:11
Time Off Btm: 2013.08.15 @ 04:21:41

TEST COMMENT: IFP=Weak blow built to 3 1/4"
ISI=Dead no blow back
FFP=Fair blow built to 8"
FSI=Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.61	106.15	Initial Hydro-static
1	17.98	105.40	Open To Flow (1)
31	41.28	106.36	Shut-In(1)
92	1107.26	108.13	End Shut-In(1)
93	39.75	107.98	Open To Flow (2)
151	51.10	108.98	Shut-In(2)
246	1095.57	110.34	End Shut-In(2)
247	1766.28	110.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	HOCGM 10%G 25%O 65%M	0.80
0.00	79-GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

19-6s-25w Graham,KS

SD Unit "A" #1-19

Job Ticket: 041074 **DST#: 2**

Test Start: 2013.08.14 @ 22:51:41

GENERAL INFORMATION:

Formation: **LKC E-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:15:41
Time Test Ended: 06:01:11

Test Type: Conventional Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 67

Interval: 3727.00 ft (KB) To 3774.00 ft (KB) (TVD)
Total Depth: 3728.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

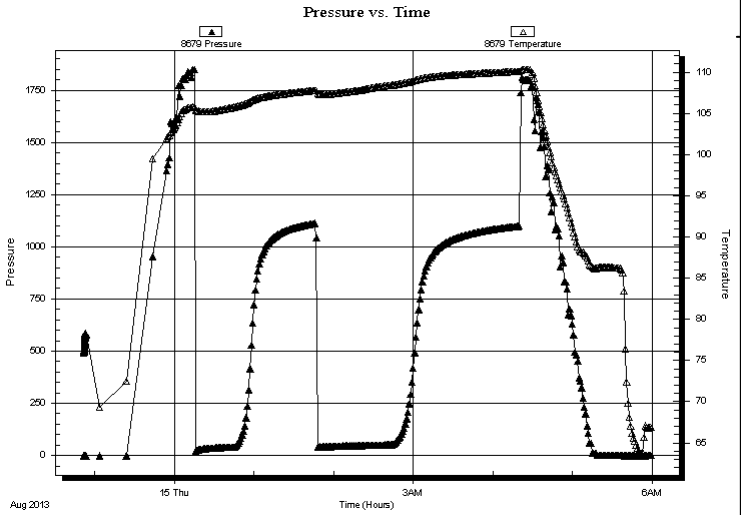
Reference Elevations: 2602.00 ft (KB)
2597.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8679 **Inside**

Press@RunDepth: psig @ 3766.00 ft (KB)
Start Date: 2013.08.14 End Date: 2013.08.15
Start Time: 22:51:32 End Time: 05:59:31

Capacity: 8000.00 psig
Last Calib.: 2013.08.15
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP=Weak blow built to 3 1/4"
ISI=Dead no blow back
FFP=Fair blow built to 8"
FSI=Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
75.00	HOCGM 10%G 25%O 65%M	0.80
0.00	79-GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

19-6s-25w Graham,KS

SD Unit "A" #1-19

Job Ticket: 041074 **DST#: 2**

Test Start: 2013.08.14 @ 22:51:41

Tool Information

Drill Pipe:	Length:	3678.00 ft	Diameter:	3.80 inches	Volume:	51.59 bbl	Tool Weight:		2200.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:		22000.00 lb
Drill Collar:	Length:	28.00 ft	Diameter:	2.25 inches	Volume:	0.14 bbl	Weight to Pull Loose:		70000.00 lb
					Total Volume:	51.73 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		7.00 ft					String Weight:	Initial	52000.00 lb
Depth to Top Packer:		3727.00 ft						Final	53000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		47.00 ft							
Tool Length:		75.00 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			3700.00		
Shut In Tool	5.00			3705.00		
Hydraulic tool	5.00			3710.00		
Jars	5.00			3715.00		
Safety Joint	3.00			3718.00		
Packer	4.00			3722.00	28.00	Bottom Of Top Packer
Packer	5.00			3727.00		
Stubb	1.00			3728.00		
Perforations	5.00			3733.00		
Change Over Sub	1.00			3734.00		
Drill Pipe	31.00			3765.00		
Change Over Sub	1.00			3766.00		
Recorder	0.00	6625	Outside	3766.00		
Recorder	0.00	8679	Inside	3766.00		
Perforations	5.00			3771.00		
Bullnose	3.00			3774.00	47.00	Bottom Packers & Anchor
Total Tool Length:	**75.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

19-6s-25w Graham,KS

SD Unit "A" #1-19

Job Ticket: 041074 **DST#: 2**

Test Start: 2013.08.14 @ 22:51:41

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:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.77 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1100.00 ppm				
Filter Cake:	inches				

Recovery Information

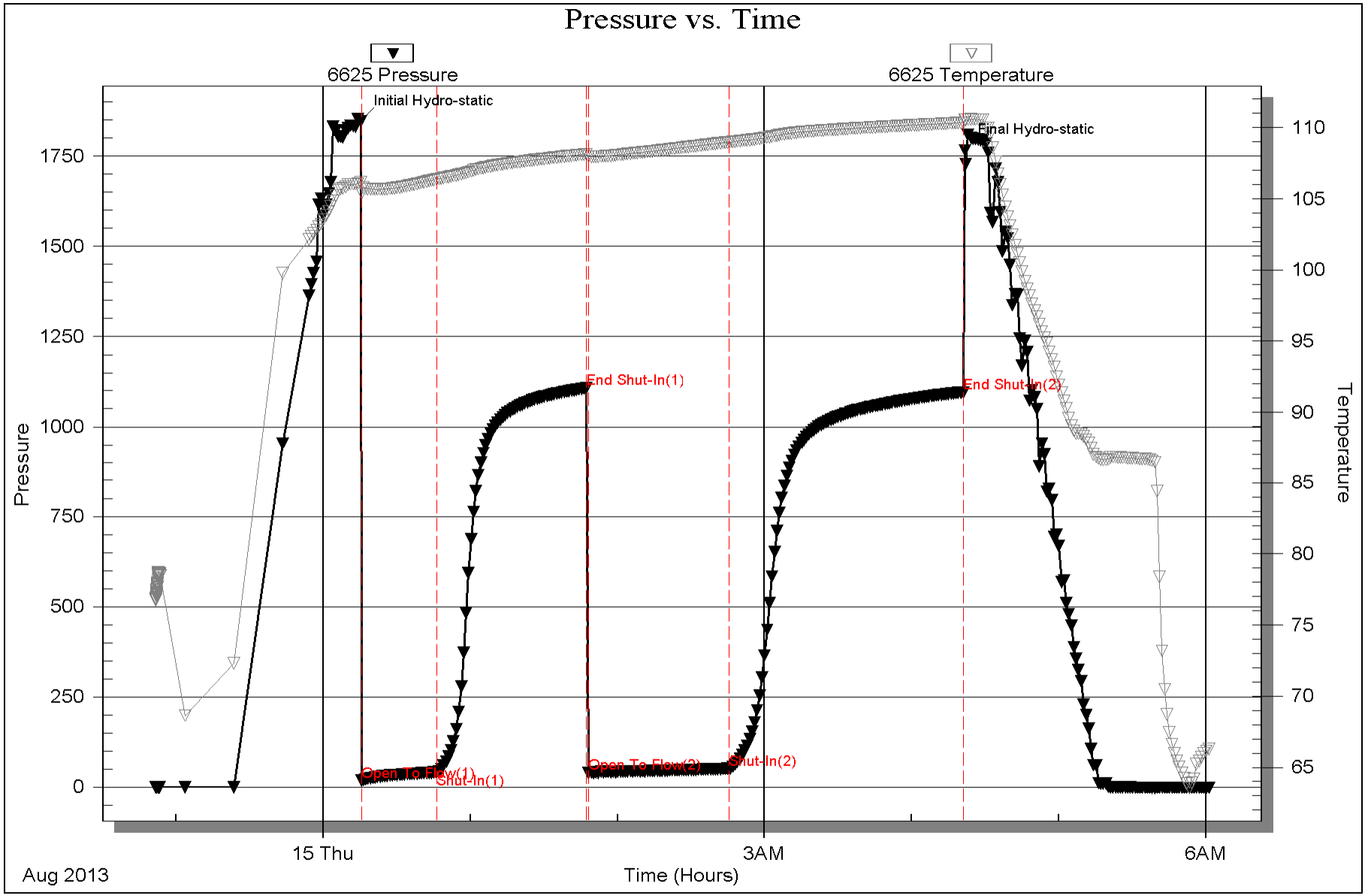
Recovery Table

Length ft	Description	Volume bbl
75.00	HOCGM 10%G 25%O 65%M	0.797
0.00	79-GIP	0.000

Total Length: 75.00 ft Total Volume: 0.797 bbl

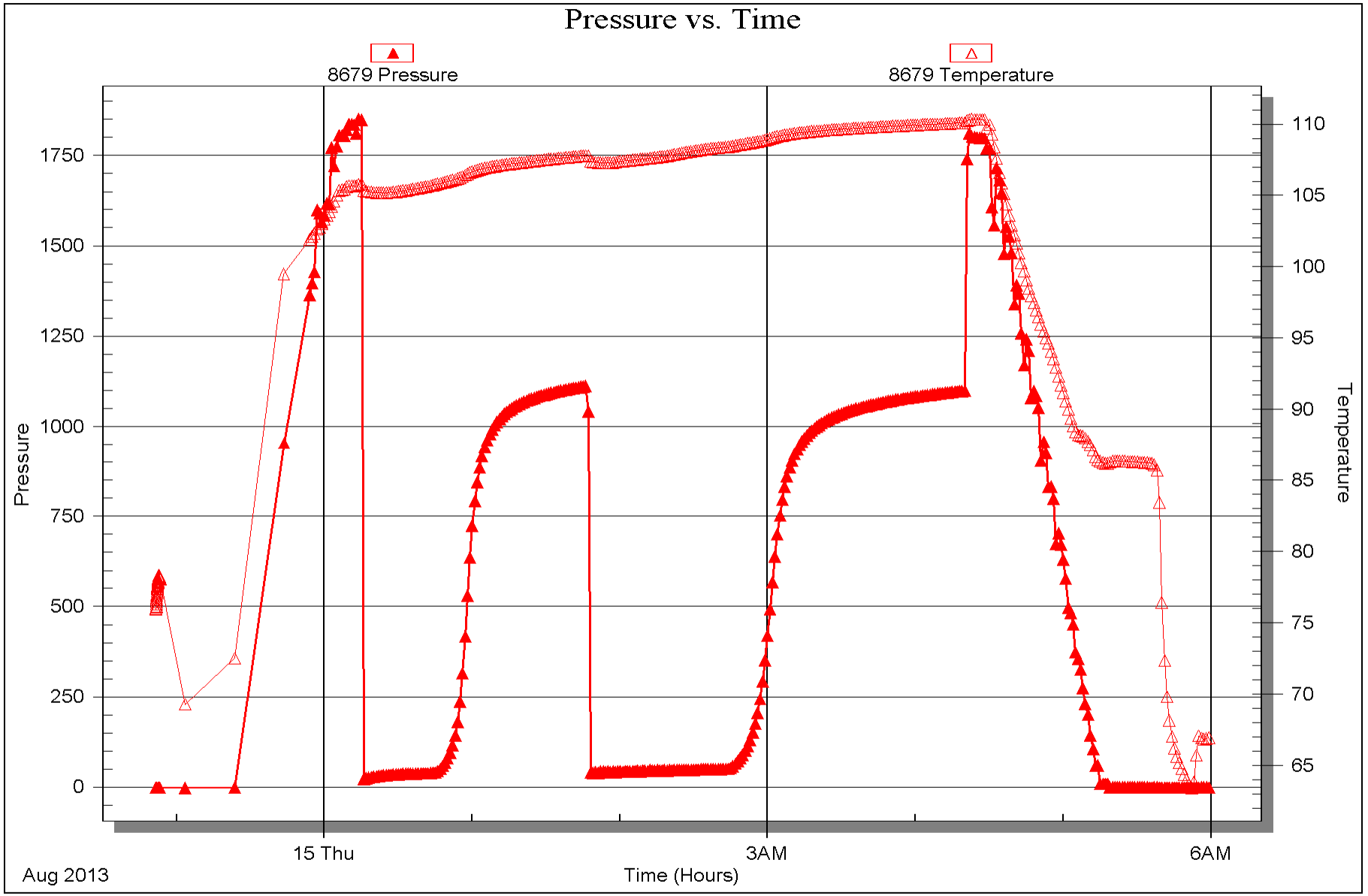
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6625 **Outside** Cobalt Energy LLC SD Unit "A" #1-19 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 041074 Printed: 2013.08.20 @ 16:02:01

Serial #: 8679 **Inside** Cobalt Energy LLC SD Unit "A" #1-19 DST Test Number: 2



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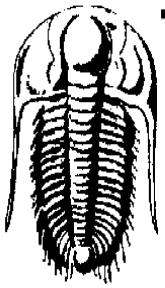


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

SD Unit "A" #1-19

19-6s-25w Graham,KS

Start Date: 2013.08.15 @ 13:30:50
End Date: 2013.08.15 @ 22:48:20
Job Ticket #: 041075 DST #: 3

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

Printed: 2013.08.20 @ 16:01:11

DRILL STEM TEST REPORT

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

19-6s-25w Graham,KS

SD Unit "A" #1-19

Job Ticket: 041075 **DST#: 3**

Test Start: 2013.08.15 @ 13:30:50

GENERAL INFORMATION:

Formation: **LKC-H-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:02:50
Time Test Ended: 22:48:20

Test Type: Conventional Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 67

Interval: 3776.00 ft (KB) To 3830.00 ft (KB) (TVD)
Total Depth: 3830.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

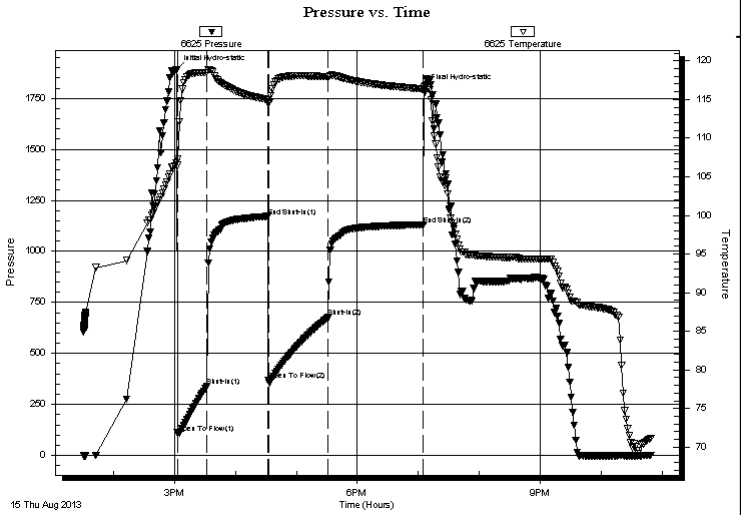
Reference Elevations: 2602.00 ft (KB)
2597.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6625 **Outside**

Press@RunDepth: 676.38 psig @ 3813.00 ft (KB)
Start Date: 2013.08.15 End Date: 2013.08.15
Start Time: 13:30:51 End Time: 22:48:20

Capacity: 8000.00 psig
Last Calib.: 2013.08.15
Time On Btm: 2013.08.15 @ 15:02:20
Time Off Btm: 2013.08.15 @ 19:05:50

TEST COMMENT: IFP=Strong blow BOB in 1 1/2 min
ISI=Good blow back BOB in 5 min
FFP=Strong blow BOB in 2 min
FSI=Good blow back BOB in 22 min. Gas to surface



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1891.82	106.85	Initial Hydro-static
1	110.46	106.51	Open To Flow (1)
30	337.52	118.50	Shut-In(1)
90	1171.60	114.98	End Shut-In(1)
90	367.62	114.60	Open To Flow (2)
149	676.38	117.94	Shut-In(2)
243	1131.32	116.35	End Shut-In(2)
244	1799.07	116.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
123.00	MCO 40%M 60%O	1.47
1588.00	Gassy OIL 25%G 75%O	22.28
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

19-6s-25w Graham,KS

SD Unit "A" #1-19

Job Ticket: 041075 **DST#: 3**

Test Start: 2013.08.15 @ 13:30:50

GENERAL INFORMATION:

Formation: **LKC-H-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:02:50
Time Test Ended: 22:48:20

Test Type: Conventional Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 67

Interval: 3776.00 ft (KB) To 3830.00 ft (KB) (TVD)
Total Depth: 3830.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

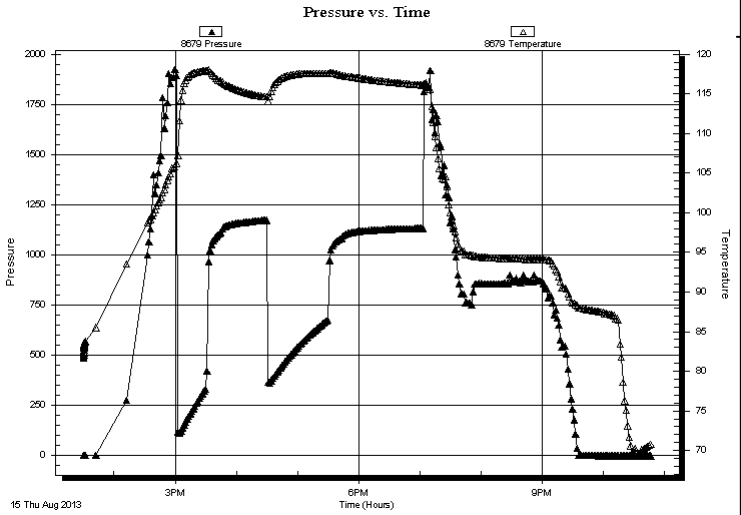
Reference Elevations: 2602.00 ft (KB)
2597.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8679 **Inside**

Press@RunDepth: psig @ 3813.00 ft (KB)
Start Date: 2013.08.15 End Date: 2013.08.15
Start Time: 13:30:17 End Time: 22:46:16

Capacity: 8000.00 psig
Last Calib.: 2013.08.15
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP=Strong blow BOB in 1 1/2 min
ISI=Good blow back BOB in 5 min
FFP=Strong blow BOB in 2 min
FSI=Good blow back BOB in 22 min. Gas to surface



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
123.00	MCO 40%M 60%O	1.47
1588.00	Gassy OIL 25%G 75%O	22.28
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

19-6s-25w Graham,KS

SD Unit "A" #1-19

Job Ticket: 041075 **DST#: 3**

Test Start: 2013.08.15 @ 13:30:50

Tool Information

Drill Pipe:	Length:	3741.00 ft	Diameter:	3.80 inches	Volume:	52.48 bbl	Tool Weight:		2200.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:		22000.00 lb
Drill Collar:	Length:	28.00 ft	Diameter:	2.25 inches	Volume:	0.14 bbl	Weight to Pull Loose:		69000.00 lb
					Total Volume:	52.62 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		21.00 ft					String Weight:	Initial	55000.00 lb
Depth to Top Packer:		3776.00 ft						Final	62000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		54.00 ft							
Tool Length:		82.00 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			3749.00		
Shut In Tool	5.00			3754.00		
Hydraulic tool	5.00			3759.00		
Jars	5.00			3764.00		
Safety Joint	3.00			3767.00		
Packer	4.00			3771.00	28.00	Bottom Of Top Packer
Packer	5.00			3776.00		
Stubb	1.00			3777.00		
Perforations	3.00			3780.00		
Change Over Sub	1.00			3781.00		
Drill Pipe	31.00			3812.00		
Change Over Sub	1.00			3813.00		
Recorder	0.00	6625	Outside	3813.00		
Recorder	0.00	8679	Inside	3813.00		
Perforations	14.00			3827.00		
Bullnose	3.00			3830.00	54.00	Bottom Packers & Anchor
Total Tool Length:	**82.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

19-6s-25w Graham,KS

SD Unit "A" #1-19

Job Ticket: 041075 **DST#: 3**

Test Start: 2013.08.15 @ 13:30:50

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	36 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1200.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
123.00	MCO 40%M 60%O	1.470
1588.00	Gassy OIL 25%G 75%O	22.275
0.00	GTS	0.000

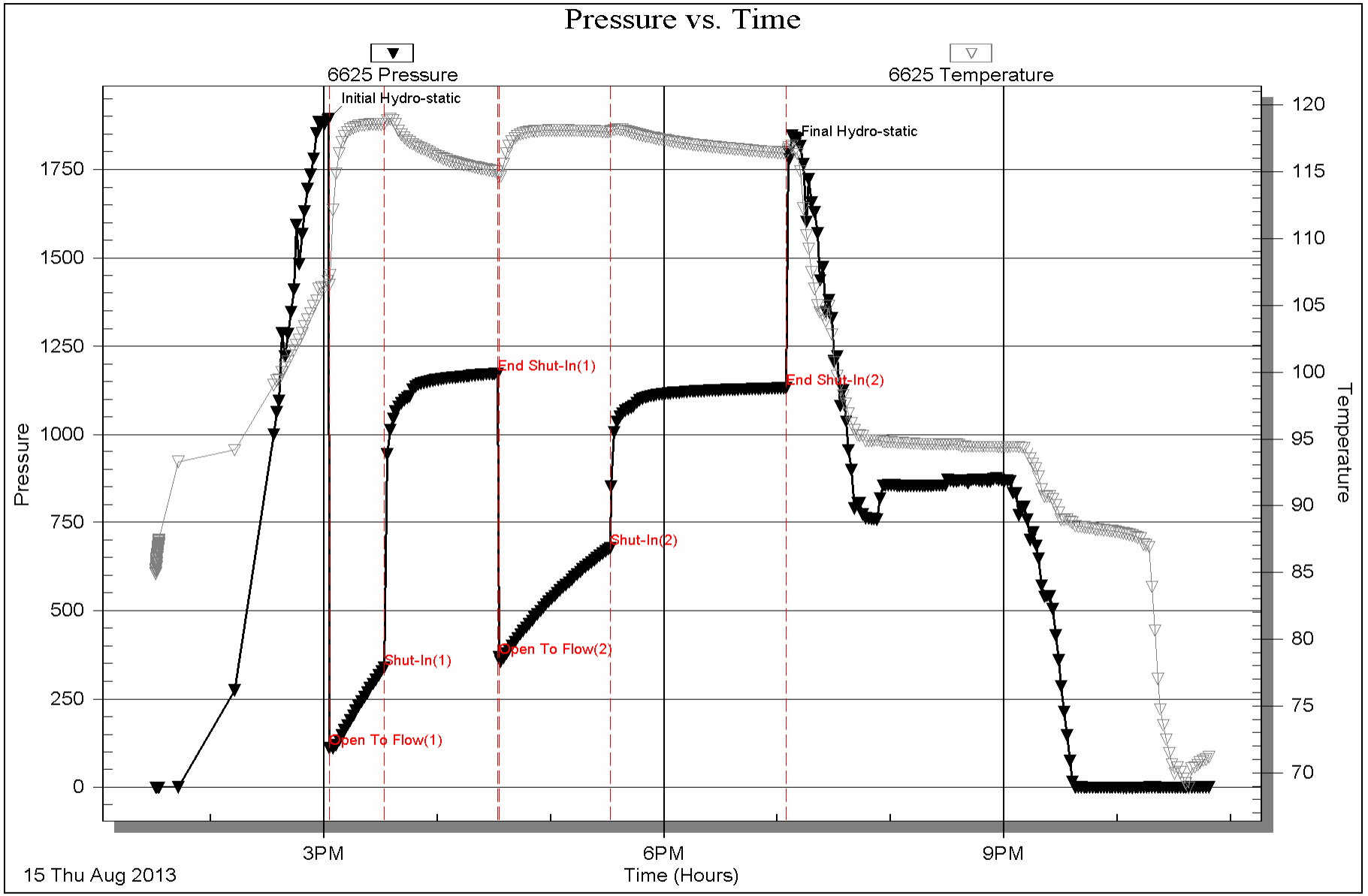
Total Length: 1711.00 ft Total Volume: 23.745 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

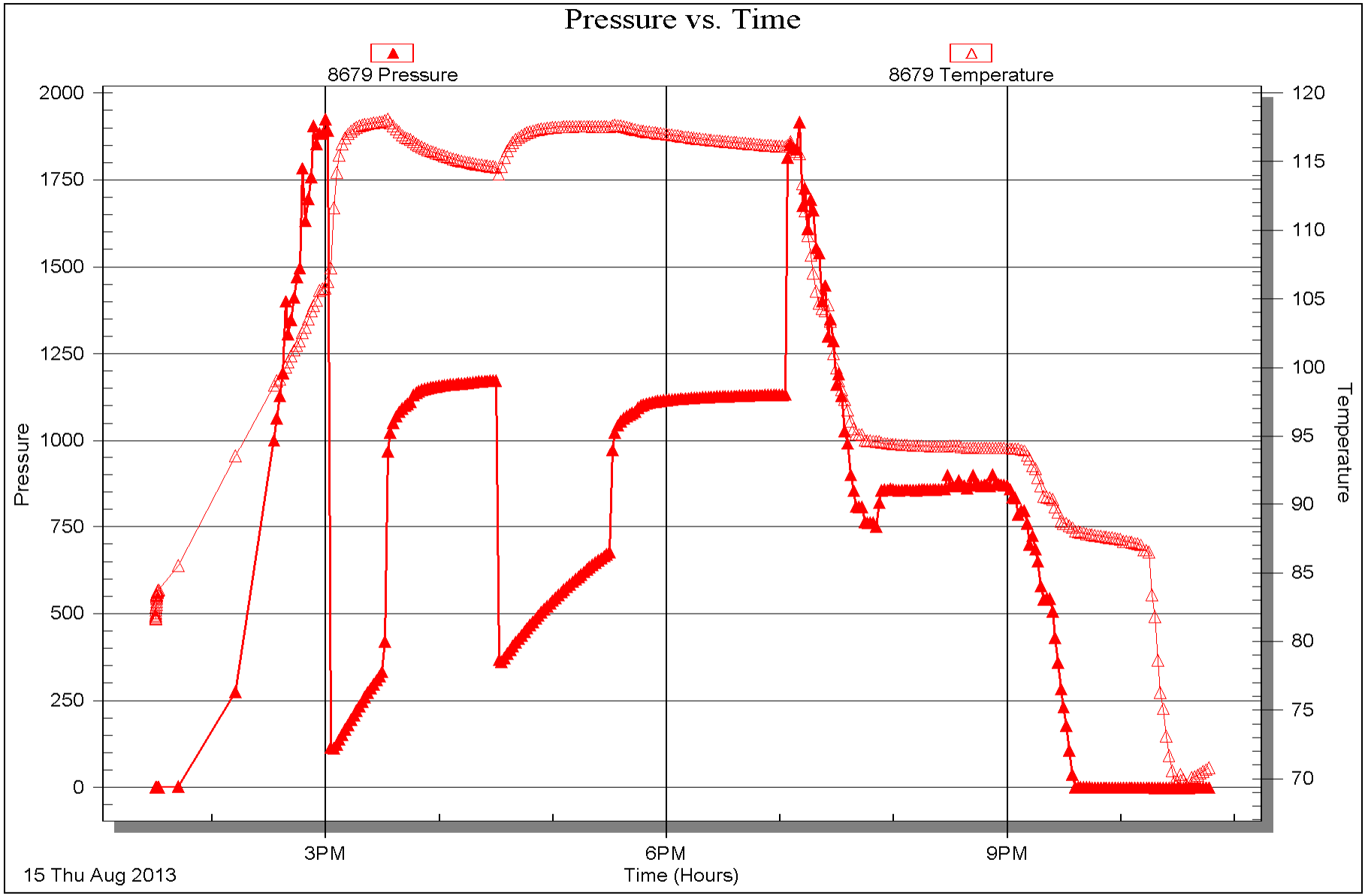
Recovery Comments:

Serial #: 6625 **Outside** Cobalt Energy LLC SD Unit "A" #1-19 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 041075 Printed: 2013.08.20 @ 16:01:14

Serial #: 8679 **Inside** Cobalt Energy LLC SD Unit "A" #1-19 DST Test Number: 3



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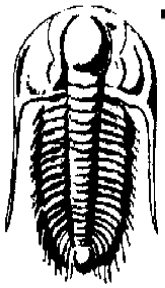


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

SD Unit "A" #1-19

19-6s-25w Graham,KS

Start Date: 2013.08.16 @ 07:45:56
End Date: 2013.08.16 @ 16:02:56
Job Ticket #: 041751 DST #: 4

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

Printed: 2013.08.20 @ 16:00:34

DRILL STEM TEST REPORT

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

19-6s-25w Graham,KS

SD Unit "A" #1-19

Job Ticket: 041751 **DST#: 4**

Test Start: 2013.08.16 @ 07:45:56

GENERAL INFORMATION:

Formation: **LKC K-L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:59:26
Time Test Ended: 16:02:56

Test Type: Conventional Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 67

Interval: 3831.00 ft (KB) To 3864.00 ft (KB) (TVD)
Total Depth: 3864.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

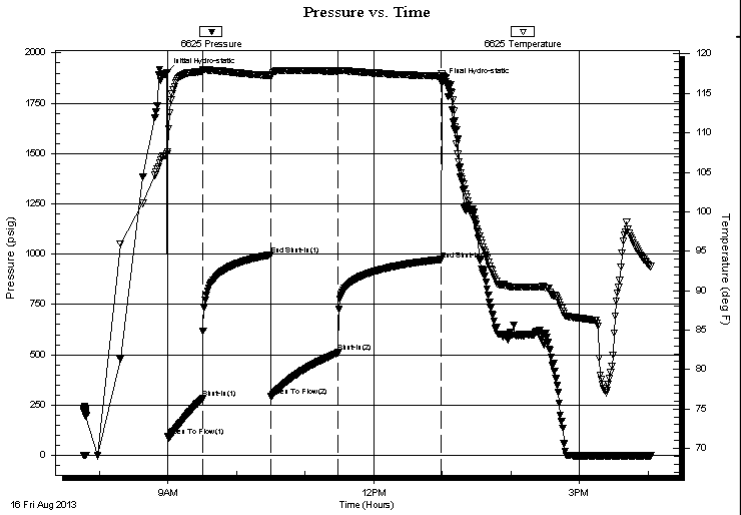
Reference Elevations: 2602.00 ft (KB)
2597.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6625 **Outside**

Press@RunDepth: 510.95 psig @ 3834.00 ft (KB)
Start Date: 2013.08.16 End Date: 2013.08.16
Start Time: 07:45:57 End Time: 16:02:56

Capacity: 8000.00 psig
Last Calib.: 2013.08.16
Time On Btm: 2013.08.16 @ 08:58:56
Time Off Btm: 2013.08.16 @ 12:59:26

TEST COMMENT: IFP=Strong blow BOB in 1 1/4 min
ISI=Good blow back BOB in 18 min
FFP=Strong blow BOB in 2 min
FSI=Good blow back BOB in 11 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.63	107.34	Initial Hydro-static
1	94.44	107.62	Open To Flow (1)
31	282.53	117.78	Shut-In(1)
91	996.72	117.25	End Shut-In(1)
91	292.76	117.07	Open To Flow (2)
150	510.95	117.82	Shut-In(2)
240	973.66	117.19	End Shut-In(2)
241	1850.51	117.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW with a scum of oil 15%M 85%W	0.59
63.00	SOCWM 5%O 45%W 50%M	0.88
315.00	MCWO 15%M 15%W 70%O	4.42
822.00	Gassy OIL 30%G 80%O	11.53
0.00	1502-GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

19-6s-25w Graham,KS

SD Unit "A" #1-19

Job Ticket: 041751 **DST#: 4**

Test Start: 2013.08.16 @ 07:45:56

GENERAL INFORMATION:

Formation: **LKC K-L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:59:26
Time Test Ended: 16:02:56

Test Type: Conventional Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 67

Interval: 3831.00 ft (KB) To 3864.00 ft (KB) (TVD)
Total Depth: 3864.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

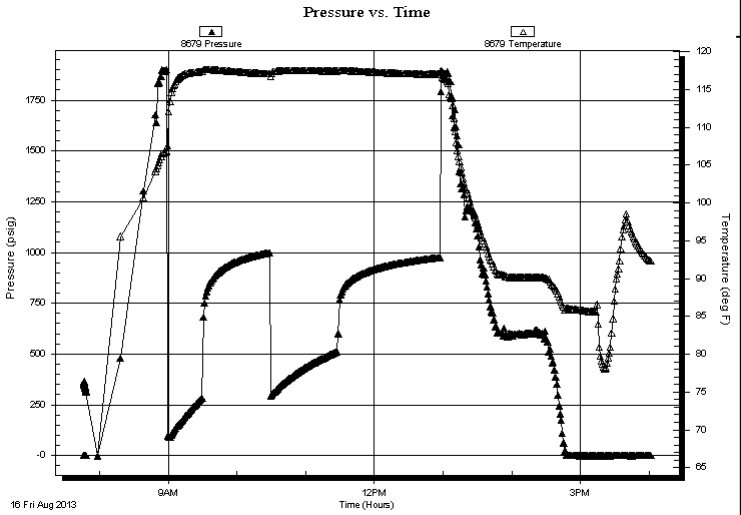
Reference Elevations: 2602.00 ft (KB)
2597.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8679 **Inside**

Press@RunDepth: psig @ 3834.00 ft (KB)
Start Date: 2013.08.16 End Date: 2013.08.16
Start Time: 07:45:56 End Time: 16:01:25

Capacity: 8000.00 psig
Last Calib.: 2013.08.16
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP=Strong blow BOB in 1 1/4 min
ISI=Good blow back BOB in 18 min
FFP=Strong blow BOB in 2 min
FSI=Good blow back BOB in 11 min



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW with a scum of oil 15%M 85%W	0.59
63.00	SOCWM 5%O 45%W 50%M	0.88
315.00	MCWO 15%M 15%W 70%O	4.42
822.00	Gassy OIL 30%G 80%O	11.53
0.00	1502-GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

19-6s-25w Graham,KS

SD Unit "A" #1-19

Job Ticket: 041751 **DST#: 4**

Test Start: 2013.08.16 @ 07:45:56

Tool Information

Drill Pipe:	Length:	3805.00 ft	Diameter:	3.80	inches	Volume:	53.37	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	28.00 ft	Diameter:	2.25	inches	Volume:	0.14	bbl	
						Total Volume:	53.51	bbl	

Drill Pipe Above KB:	25.00 ft
Depth to Top Packer:	3831.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	33.00 ft
Tool Length:	56.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2200.00 lb
Weight set on Packer:	22000.00 lb
Weight to Pull Loose:	79000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	55000.00 lb
Final	60000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3809.00		
Shut In Tool	5.00			3814.00		
Hydraulic tool	5.00			3819.00		
Safety Joint	3.00			3822.00		
Packer	4.00			3826.00	23.00	Bottom Of Top Packer
Packer	5.00			3831.00		
Stubb	1.00			3832.00		
Perforations	2.00			3834.00		
Recorder	0.00	6625	Outside	3834.00		
Recorder	0.00	8679	Inside	3834.00		
Perforations	27.00			3861.00		
Bullnose	3.00			3864.00	33.00	Bottom Packers & Anchor
Total Tool Length:	**56.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

PO Box 8037
Wichita KS 67208

ATTN: Paul Gunzelman

19-6s-25w Graham,KS

SD Unit "A" #1-19

Job Ticket: 041751 **DST#: 4**

Test Start: 2013.08.16 @ 07:45:56

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	35 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	900.00 ppm				
Filter Cake:	inches				

Recovery Information

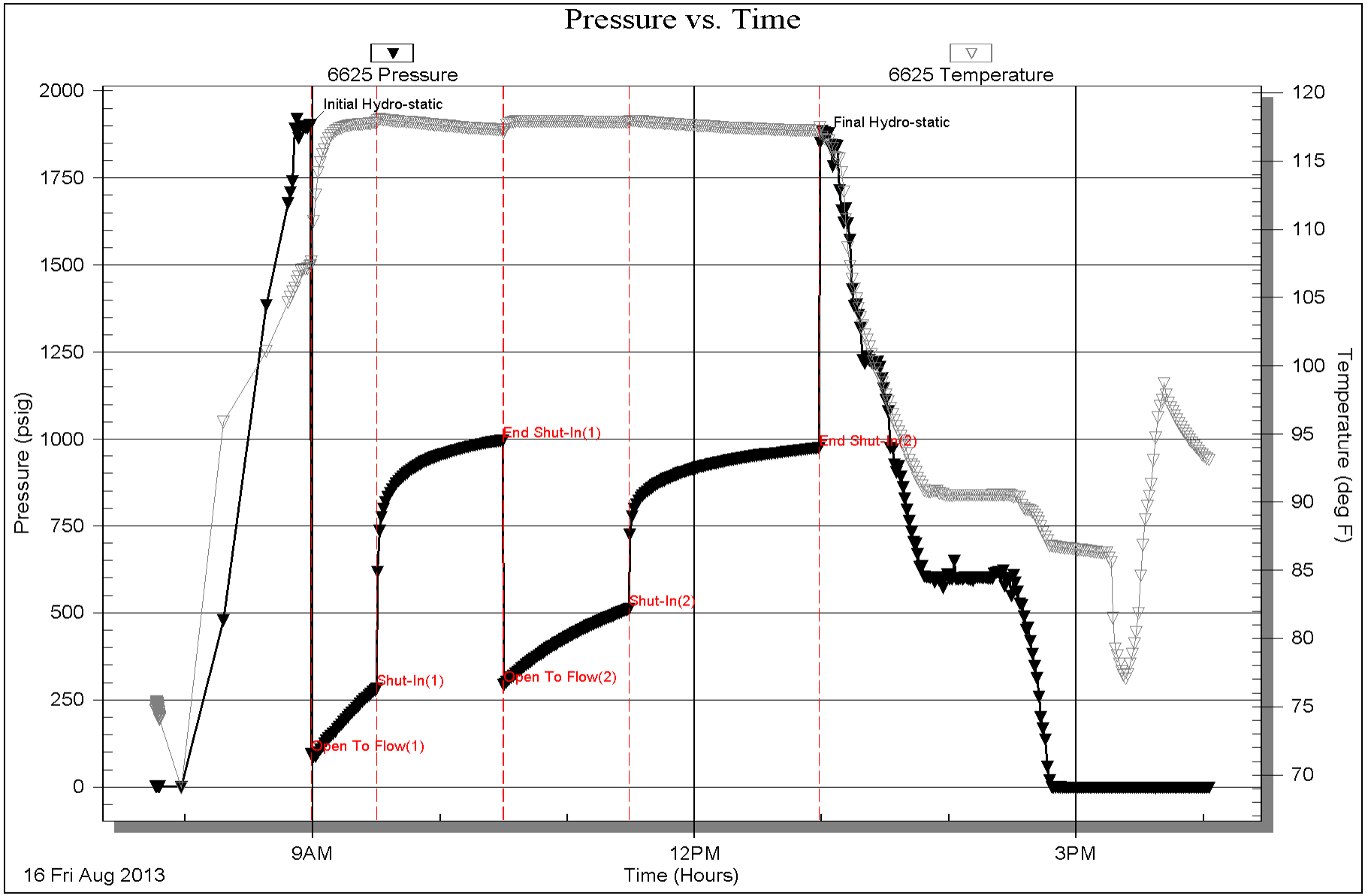
Recovery Table

Length ft	Description	Volume bbl
60.00	MW with a scum of oil 15%M 85%W	0.587
63.00	SOCWM 5%O 45%W 50%M	0.884
315.00	MCWO 15%M 15%W 70%O	4.419
822.00	Gassy OIL 30%G 80%O	11.530
0.00	1502-GIP	0.000

Total Length: 1260.00 ft Total Volume: 17.420 bbl

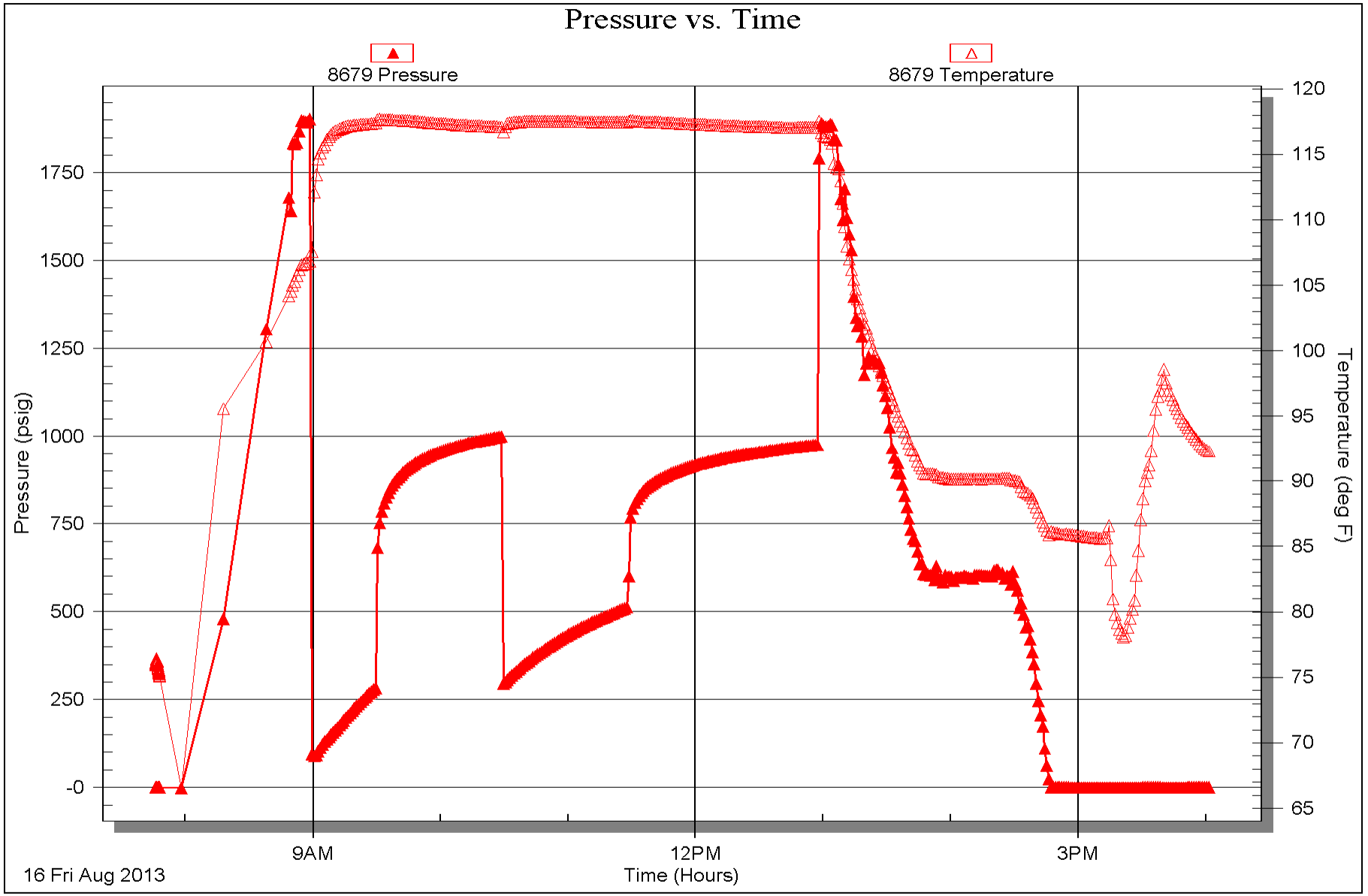
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6625 **Outside** Cobalt Energy LLC SD Unit "A" #1-19 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 041751 Printed: 2013.08.20 @ 16:00:37

Serial #: 8679 **Inside** Cobalt Energy LLC SD Unit "A" #1-19 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 041751 Printed: 2013.08.20 @ 16:00:38

TRILOBITE TESTING INC.
P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 041073

Well Name & No. SD UNIT "A" 1-19 Test No. 1 Date 8-14-13
Company Cobalt Energy LLC Elevation 2602 KB 2597 GL
Address PoBox 8037 Wichita KS 67208
Co. Rep / Geo. Paul Gunzelman Rig Murfin #16
Location: Sec. 19 Twp. 16S Rge. 25W Co. Gran State KS

Interval Tested 3688 - 3728 Zone Tested LKC - C & D
Anchor Length 40 Drill Pipe Run 3646 Mud Wt. 9.0
Top Packer Depth 3683 Drill Collars Run 28 Vis 60
Bottom Packer Depth 3688 Wt. Pipe Run 0 WL 6.8
Total Depth 3728 Chlorides 1100 ppm System LCM 2

Blow Description IFP-GOOD BLOW BOB IN 12 min
ISI-WEAK BLOW BACK BUILT TO 1/4 IN
FFP-GOOD BLOW BOB IN 17 min
FSI-WEAK BLOW BACK BUILT TO 1/4 IN

Rec 25	Feet of GASSY OIL	10 %gas	90 %oil	%water	%mud
Rec 63	Feet of GMCO	5 %gas	55 %oil	%water	40 %mud
Rec 63	Feet of VSOCGWM	8 %gas	2 %oil	20 %water	70 %mud
Rec 252	Feet of MW WITH A SCUM OF OIL	%gas	%oil	90 %water	10 %mud
Rec	Feet of 283-GIP	%gas	%oil	%water	%mud

Rec Total 403 BHT 114 Gravity 31 API RW .178 @ 71.5 °F Chlorides 42,000 ppm

(A) Initial Hydrostatic	1824	☒ Test	1150	T-On Location	6:30
(B) First Initial Flow	25	☒ Jars	250	T-Started	6:48
(C) First Final Flow	85	☒ Safety Joint	75	T-Open	8:27
(D) Initial Shut-In	1024	☐ Circ Sub		T-Pulled	12:27
(E) Second Initial Flow	94	☐ Hourly Standby		T-Out	15:02
(F) Second Final Flow	127	☒ Mileage	~~190 RT~~ 92rt 142.60	Comments	
(G) Final Shut-In	1020	☐ Sampler			
(H) Final Hydrostatic	1790	☐ 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	1617.60
Final Shut-In	90	☐ Accessibility		MP/DST Disc't	
		Sub Total	1617.60		

Approved By Our Representative Jeff Brown

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

4/10

Test Ticket

NO. 041074

Well Name & No. SD UNIT "A" #1-19 Test No. 2 Date 8-14-13

Company Cobalt Energy LLC Elevation 2402 KB 2597 GL

Address PO Box 8037 Wichita KS 67208

Co. Rep / Geo. Paul Gunzelman Rig Murfin #16

Location: Sec. 19 Twp. 6S Rge. 25W Co. Graham State KS

Interval Tested 3727-3774 Zone Tested LKC - "E-G"

Anchor Length 47 Drill Pipe Run 3678 Mud Wt. 9.0

Top Packer Depth 3722 Drill Collars Run 28 Vis 60

Bottom Packer Depth 3727 Wt. Pipe Run 0 WL 6.8

Total Depth 3774 Chlorides 1100 ppm System LCM 2

Blow Description IF-Weak Blow Built To 3 1/4 IN
ISI-Dead No Blow Back
FFP-Fair Blow Built To 8 IN
FSI-Dead No Blow Back

Rec 75	Feet of HOCGM	10 %gas	25 %oil	%water	65 %mud	
Rec	Feet of 79-GIP	%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 75 BHT 110 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 1847	☒ Test 1150	T-On Location 22:30	
(B) First Initial Flow 18	☒ Jars 250	T-Started 22:51	
(C) First Final Flow 41	☒ Safety Joint 75	T-Open 00:16	
(D) Initial Shut-In 1107	☐ Circ Sub	T-Pulled 4:16	
(E) Second Initial Flow 40	☐ Hourly Standby	T-Out 6:01	
(F) Second Final Flow 51	☒ Mileage 142.60	Comments	
(G) Final Shut-In 1096	☐ Sampler		
(H) Final Hydrostatic 1762	☐ 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 1617.60	
Final Shut-In 90	☐ Accessibility	MP/DST Disc't	
	Sub Total 1617.60		

Approved By ____ Our Representative Jeff Brown

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 041075

Well Name & No. SD UNIT "A" #1-19 Test No. 3 Date 8-15-15

Company Cobalt Energy LLC Elevation 2602 KB 2597 GL

Address Po Box 8037 Wichita KS 67208

Co. Rep / Geo. Paul Gunzelman Rig Murfin #16

Location: Sec. 19 Twp. 6 S Rge. 25 W Co. Graham State KS

Interval Tested 3776 - 3830 Zone Tested LKC - H-5

Anchor Length 54 Drill Pipe Run 3741 Mud Wt. 9.1

Top Packer Depth 3771 Drill Collars Run 28 Vis 53

Bottom Packer Depth 3776 Wt. Pipe Run 0 WL 7.8

Total Depth 3830 Chlorides 1200 ppm System LCM 2

Blow Description IF- STrong Blow BoB IN 1 1/2 min
ISI- Good Blow Back BoB IN 5 min
FF- STrong Blow BoB IN 2 min
FSI- Good Blow Back BoB IN 22 min. GAS To Surface

Rec 123	Feet of MCO	%gas	60 %oil	%water	40 %mud
Rec 1588	Feet of Gassy oil	25 %gas	75 %oil	%water	%mud
Rec	Feet of 2119-GIP	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1711 BHT 116 Gravity 36 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1892	☒ Test 1150	T-On Location 13:14
(B) First Initial Flow 110	☒ Jars 250	T-Started 13:30
(C) First Final Flow 338	☒ Safety Joint 75	T-Open 15:02
(D) Initial Shut-In 1172	☒ Circ Sub 50	T-Pulled 19:02
(E) Second Initial Flow 348	☐ Hourly Standby	T-Out 22:48
(F) Second Final Flow 676	☒ Mileage 142.60	Comments
(G) Final Shut-In ~~1134~~ 1131	☐ Sampler	
(H) Final Hydrostatic 1799	☐ 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 1667.60
Final Shut-In 90	☐ Accessibility	MP/DST Disc't
	Sub Total 1667.60	

Approved By Our Representative Jeff Brown

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 041751

Well Name & No. SD UNIT "A" #1-19 Test No. 4 Date 8-16-15

Company Cobalt Energy LLC Elevation 2602 KB 2597 GL

Address PO Box 8037 Wichita KS 67208

Co. Rep / Geo. Paul Gunzelman Rig Murfin #16

Location: Sec. 19 Twp. 6S Rge. 25 Co. Graham State KS

Interval Tested 3831-3864 Zone Tested LKC-K-L

Anchor Length 33 Drill Pipe Run 3805 Mud Wt. 9.3

Top Packer Depth 3826 Drill Collars Run 28 Vis 53

Bottom Packer Depth 3831 Wt. Pipe Run 0 WL 6.8

Total Depth 3864 Chlorides 900 ppm System LCM 1

Blow Description FF-STrong Blow BOB IN 1 1/4 min
FSI-Good Blow BOB IN 18 min
FFF-STrong Blow BOB IN 2 min
FSI-Good Blow Back BOB IN 11 min

Rec	60	Feet of	MW WITH A Scum of 0.1	%gas		%oil	85	%water	15 %mud
Rec	63	Feet of	SOCWM	%gas	5	%oil	45	%water	50 %mud
Rec	315	Feet of	MCWO	%gas	70	%oil	15	%water	15 %mud
Rec	822	Feet of	GASSY 0.1	%gas	30 70	%oil		%water	%mud
Rec	0	Feet of	1502-GIP	%gas		%oil		%water	%mud

Rec Total 1260 BHT 117 Gravity 35 API RW .179 @ 80.5 F Chlorides 35,000 ppm

(A) Initial Hydrostatic	1902	X	Test 1150	T-On Location	7:35
(B) First Initial Flow	94	X	~~Jars~~ NO JARS	T-Started	7:45
(C) First Final Flow	283	X	Safety Joint 75	T-Open	8:59
(D) Initial Shut-In	997	X	Circ Sub 50	T-Pulled	12:59
(E) Second Initial Flow	293	☐	Hourly Standby	T-Out	16:02
(F) Second Final Flow	511	X	Mileage 142.60	Comments	
(G) Final Shut-In	974	☐	Sampler		
(H) Final Hydrostatic	1851	☐	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	1417.60
Final Shut-In	90	☐	Accessibility	MP/DST Disc't	
		Sub Total	1417.60		

Approved By Our Representative Jeff Brown

COBALT ENERGY
OIL & NATURAL GAS

GEOLOGIST'S REPORT

OPERATOR **COBALT ENERGY, LLC**

LEASE **SD UNIT "A" # 1-19**

LOCATION **836 FSL & 2589 FEL**

SEC. **19** TWSP **6S** RGE **25W**

COUNTY **GRAHAM** STATE **KANSAS**

FIELD **ALLODIUM EAST**

CONTRACTOR Murfin Drilling Company RIG NO. 16

COMMENCED 10 August 2013 COMPLETED 17 August 2013

MUD DISPLACED 3106 MUD TYPE Chemical

DRILLING TIME KEPT FROM 3400 TO 3925

SAMPLES SAVED FROM 3400 TO 3925

SAMPLES EXAMINED FROM 3400 TO 3925

GEOLOGICAL SUPERVISION FROM 3454 TO 3925

GEOLOGIST ON WELL Paul Gunzelman

FORMATION NAME	LOG TOP	LOG DATUM	SAMPLE TOP	SAMPLE DATUM
Stone Corral	2170	+432	2172	+430
Base/Anhydrite	2203	+399	2205	+397
Topeka	3478	-876	3478	-876
Heebner Shale	3634	-1032	3636	-1034
Toronto	3656	-1054	3658	-1056
Lansing	3672	-1070	3674	-1072
Stark Shale	3826	-1224	3828	-1226
Base/Kansas City	3862	-1260	3864	-1262
Total Depth	3925	-1323	3925	-1323

ELEVATIONS

KB **2602 Ft.**

GL **2597 Ft.**

ALL MEASUREMENTS FROM K.B.

CASING RECORD

Conductor None

Surface 8 5/8" @ 345'

Production 5 1/2" @ 3919'

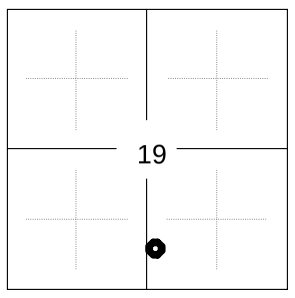
ELECTRICAL SURVEYS

Pioneer Energy Services

Comp. Neutron Density

Dual Induction

Micro-resistivity



REMARKS

API 15-065-23959-00-00

Drilling Fluids: Mud-Co./Service Mud, Inc. (Gary Schmidtberger, engineer)

Drill Stem Testing: Trilobite Testing, Inc. (Jeff Brown, tester)

Gas Trailer: No Gas Trailer

Reserve Pit Chlorides:

REMARKS

SAMPLE DESCRIPTIONS

SHOWS

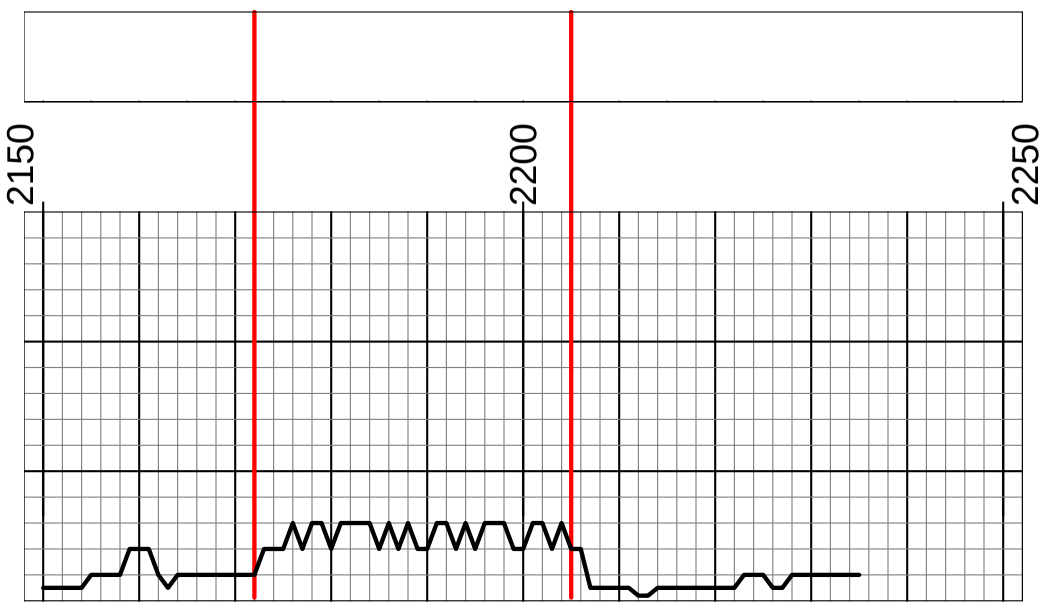
LITHOLOGY

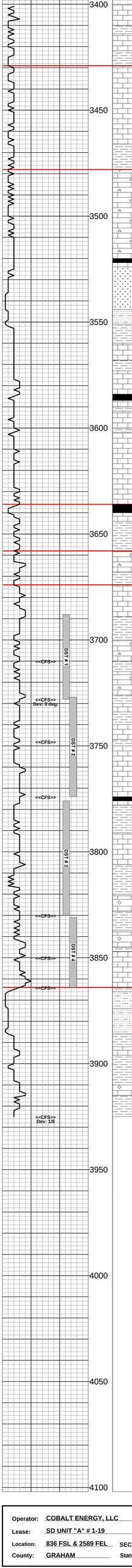
DEPTH

DRILL TIME (MIN/FT)

STONE CORRAL 2172 (+430)

BASE/ANHYDRITE 2205 (+397)





Ls: Crm, fxln, foss, sli ool, tr sbchky, intbd gy fis occ slty sh.

Ls: Tn-gy, fn-vfxln, smwt arg, tr pyr, dns, n/s.

Sh: Rd-brn, fis-blky, ea, occ gum.

HOWARD
3429 (-827)

Ls: Crm-lt gy, fxln-gran, chky, sli ool, fr intgran por, n/s.

Ls: Crm-gy, fxln, slbchky, tr org rem, tr glauc, n/s.

Ls: Crm-v.lt gy, fxln-gran, v.chky, tr org rem, some arg, fr pp por, n/s.

Ls: Wh-crm, fxln-gran, tr lt yel ool, chky, occ dol, n/s.

Ls: Crm, fxln-gran, foss, some chky, intbd v.dk gy-blk fis sh, n/s.

Sh: Rd-brn, blky, ea occ gum.

TOPEKA
3478 (-876)

Ls: Wh frag, ool, cons spr calc, n.v.p, n/s.

Ls: Crm-tn, tr v.lt gy, fxln, tr gran, sli foss, chky, cons lt gy wh & amb op vit cht, pr pp por, n/s.

Ls: Crm, fxln, foss (Fus) cons chk, some spr calc, fr pp por, n/s.

Ls: Crm, fxln, chky, tr org rem, some wh-crm op vit cht, bcm gy fn-vfxln & arg, n.v.p.

Sh: Blk, v.thn fis, carb, some tn-gy fxln ool dns Ls.

Sd: Gy & lt gy, vvfn, wlsrt sbrnd sli calc, some arg, sbfri-wlcmt, occ slty, gd intgran por, n/s.

Sltst: V.lt gy sli calc, arg in pt, some mica.

Sh: Lt rd-brn blky ea gum.

Ls: Crm, fxln-co gran, sbchky-chky, sli ool, tr org rem, cons amor calc, n/s.

Sh: Dk gy & gn-gy fis, some slty, tr carb mat.

Ls: Crm-gy, fxln, tr org rem, some sbchky, occ arg.

Sh: Blk fis carb.

Ls: Crm, fxln, sli chky, tr org rem, some arg-shly, n.v.p.

Ls: Crm, fxln-gran, chky, tr org rem & spr calc, some dolo, n /s.

Ls: Crm, fxln, ool, sbchky, some sec calc, pr intool por, n/s.

Ls: Crm-lt gy, fxln, sbchky, some rexlzd, tr foss, pr-fr pp por, n/s.

Ls: Lt gy, fn-vfxln, sli arg-shly, foss (Brach) dns.

HEEBNER SHALE
3636 (-1034)

Sh: Blk & v.dk gy, thn fis, carb.

Ls: Tn, vfxln, tr foss, dns.

Sh: Gy gy-gn & dk gy, fis, tr carb mat, some lt rd-brn blky ea gum sh.

TORONTO
3658 (-1056)

Ls: Wh-crm, fxln, sli ool, tr sbchky, some gran & dol, tr wh-tn op vit cht, pr intgran por, n/s.

Sh: Gy-gn lt gn, fis, some calc, tr silty.

LANSING
3674 (-1072)

Ls: Crm, fxln, tr ool, some lt gy vfxln dns pyr Ls, tr wh-crm op cht, n.v.p.

Sh: Rd-brn mar & brn, thk fis-blky ea, some gum bcm gy-gn fis.

Ls: Wh-crm, fxln sli ool & foss, blk gy & blu-gy mott op cht, pr-fr pp & int ool por, gd odor, sli shw med brn O, med brn spty-sbsat stn.

Sh: Gy-gn & lt gn, fis, some calc, occ slty, bcm rd-brn thk fis, ea, tr gum.

Ls: Crm-gy, fn-vfxln, smwt arg, tr foss (Brach) some crm op vit cht, n.v.p, n/s.

Ls: V.lt gy, vfxln, tr wthd-sbchky, dns, some arg, n/s.

Sh: Rd-brn tr yel, thk fis-blky, ea.

Ls: Crm-lt gy, fxln-gran, tr wthd, pr-fr pp & intgran por, fr odor, v.sli shw FO, spty med brn stn.

Ls: Crm, fn-vfxln, sbchky, tr spr calc, pr intxln por, no odor, no FO, tr lt brn edge stn, cons intbd gy-gn fis pyr sh.

Ls: Wh-crm, fxln-gran, sli ool, tr sbchky, some spr calc, fr intgran por, sli odor, no shw FO, lt spty stn.

Ls: Crm, fxln, sbchky, tr chky, occ v.lt gy & v.lt gy-gn arg Ls, n.v.p, n/s.

Ls: Crm, fxln, sbchky, tr org rem & spr calc, lt or wh & crm op-tmsl frs cht, n.v.p.

Sh: Blk thn fis, carb, bcm dk gy & gn-gy fis occ slty sh, some intbd tn-brn fxln sli arg dns Ls, tr org rem.

Sh: Lt gy gum, some rd-brn & mar fis-blky ea sh.

Ls: V.lt gy tr crm, fn- vfxln, sli ool, sbchky, occ arg, scat pr-fr pp por, pr intool & vug por, fr odor, fr shw FO, spty lt stn, tr sat stn.

Ls: Crm-tn tr gy, fxln, occ sbchky, sli foss (Fus) some amor calc, n.v.p.

Sh: Blk-v.dk gy, some carb, bcm gy-gn fis calc.

Sh: Rd-brn tr purp, fis, ea, tr gum intbd tn-brn frag foss (Fus) sli ool arg Ls, n/s.

Ls: Crm-tn, frag, tr fxln, ool, tr foss (Fus) some sbchky, fr-gd intool & pp por, pr foss cast & vug por, v.sli odor, sli shw med brn FO, sbsat-sat stn, cons blk dd O res.

Sh: Dk gy-gn fis-thk fis, tr carb mat, bcm rd-brn v.lt rd-brn & mar-gy mott, blky, occ slty, some gum.

Ls: Wh-v.lt gy, fn-vfxln tr sbchky, sli ool & foss (Fus), pr gp & intxln por, tr pr-fr vug por, fr odor, sli shw lt brn O, sli shw G, med brn patchy stn, tr blk asph res.

Ls: Crm-tn, fxln, some medxln, occ sbchky, r.org rem, pr pp & foss cast por, v.sli odor, no FO, spty lt stn.

Ls: Crm, fn-vfxln, sbchky, r.pyr, n.v.p, n/s.

Sh: Gy gy-gn gn brn, tr yel, fis, tr pyr, some rd-brn ea & lt rd-brn gum sh, intbd lt gn & lt gy sli calc arg sltst.

Sh: Rd-brn thk fis-blky, ea, occ gum cons gy-gn fis sli pyr sh, intbd rd-brn arg sli mica sltst.

Ls: V.lt gy, fn-vfxln, smwt arg, occ wthd-sbchky, tr glauc, n.v.p, n/s.

Sh: Rd-brn lt rd-brn some mar & brn, occ mott w/gy, fis-blky tr slty, occ gum.

Ls: Wh-crm, fxln-frag, ool, occ sbchky, cons sec calc, n.v.p, n/s.

Sh: Lt rd-brn blky, ea v.gum, some v.lt gy fxln frac Ls mott w/dk rd-brn sh, n/s.

11:00 am, 13 August 2013

Mud-Co mud check @ 3728'
Vis: 60, Wt: 9.0, WL: 6.8
Chlor: 1,100 ppm, LCM: 2#

Mud-Co mud check @ 3781'
Vis: 53, Wt: 9.1, WL: 7.8
Chlor: 1,200 ppm, LCM: 2#

DST # 2 3727 - 3774
30"-60"-60"-90"
IF: Weak blow bldg to 3 1/4 inches
FF: Weak blow bldg to 8 inches

RECOVERY:
79 Ft. Gas In Pipe
75 Ft. Heavy Oil Cut Mud
(10%Gas 25%Oil, 65%Mud)

IHP: 1847 psi. FHP: 1766 psi.
IFP: 18-41 psi. ISIP: 1107 psi.
FFP: 40-51 psi. FSIP: 1096 psi.
BHT: 110 deg. F.

Mud-Co mud check @ 3864'
Vis: 53, Wt: 9.3, WL: 6.8
Chlor: 900 ppm, LCM: 1 #

BASE/KANSAS CITY
3864 (-1262)

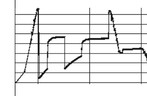
DST # 3 3776 - 3830
30"-60"-60"-90"
IF: Strong blow, BOB in 1.5 min.
ISI: Bled off, BOB blow in 5 min.
FF: Strong blow, BOB in 2 min.
FSI: Bled off, BOB in 22 min. GTS

RECOVERY:
123 Ft. Mud Cut Oil
1588 Ft. Clean Gassy Oil
(25% Gas, 75% Oil, 36 Grav. API)

IHP: 1892 psi. FHP: 1799 psi.
IFP: 110-338 psi. ISIP: 1172 psi.
FFP: 368-676 psi. FSIP: 1131 psi.
BHT: 116 deg. F.

TOTAL DEPTH
3925 (-1323)

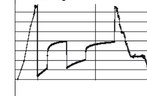
7:40 PM, 16 August 2013



DST # 4 3831 - 3864
30"-60"-60"-90"
IF: Strong blow, BOB in 1.25 min.
ISI: Bled off, BOB return in 18 min.
FF: Strong blow, BOB in 2 min.
FSI: Bled off, BOB return in 11 min.

RECOVERY:
1502 Ft. Gas In Pipe
822 Ft. Clean Gassy Oil
(30%Gas 70%Oil, 35 Grav. API)
315 Ft. Mud & Water Cut Oil
(15%Mud, 15%Wtr, 70%Oil)
63 ft. Sli. Oil & Water Cut Mud
(5%Oil, 45%Wtr, 50%Mud)
60 Ft. Water, Show Oil
(Chlor: 35,000 ppm)

IHP: 1902 psi. FHP: 1851 psi.
IFP: 94-283 psi. ISIP: 997 psi.
FFP: 293-511 psi. FSIP: 974 psi.
BHT: 117 deg. F.



Operator: COBALT ENERGY, LLC
Lease: SD UNIT "A" # 1-19
Location: 836 FSL & 2589 FEL SEC. 19 TWSP 6S RGE 25W
County: GRAHAM State: KANSAS