KOLAR Document ID: 1520417

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
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 + 0037
Contact Person: NICHOLAS HESS
Phone: (316) 201-4101
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Larry Nicholson
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ WSW ☐ SWD
☐ Gas ☑ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

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

6/5/2020 Spud Date or Recompletion Date
6/12/2020 Date Reached TD
6/13/2020 Completion Date or Recompletion Date

API No.: 15-023-21546-00-00
Spot Description:
SW- NW- NW- SW Sec. 35 Twp. 4 S. R. 37 ☐ East ☑ West
2241 Feet from ☐ North / ☑ South Line of Section
327 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: Cheyenne
Lease Name: FOUR BOYS UNIT Well #: 1-35
Field Name:
Producing Formation: na
Elevation: Ground: 3335 Kelly Bushing: 3340
Total Vertical Depth: 4946 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 348 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: 5000 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: 06/19/2020
☐ **Confidential Release Date:** 06/19/2022
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 06/19/2020

Operator Name: Cobalt Energy LLC Lease Name: FOUR BOYS UNIT Well #: 1-35

Sec. 35 Twp. 4 S. R. 37 ☐ East ☑ West County: Cheyenne

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 Sheets)*	☑ Yes	☐ No	
Samples Sent to Geological Survey	☑ Yes	☐ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run: Attached

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

Name	Top	Datum
Attached	Attached	Attached

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	8.675	23	348	Class A	300	3%cc 2%gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection:	Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

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

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	FOUR BOYS UNIT 1-35
Doc ID	1520417

All Electric Logs Run

Micro
Neutron-Density
Dual Induction
Sonic

Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	FOUR BOYS UNIT 1-35
Doc ID	1520417

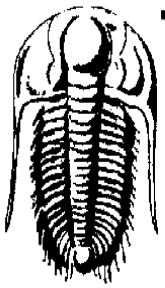
Tops

Name	Top	Datum
Anhy	3080	260
Base Anhy	3118	222
Heebner	4181	-841
Toronto	4227	-887
Lansing	4237	-897
Muncie Creek	4348	-1008
Stark	4428	-1088
Hush	4462	-1122
BKC	4503	-1163
Pawn	4615	-1275
Ft Scott	4668	-1328
Miss	4893	-1553

Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	FOUR BOYS UNIT 1-35
Doc ID	1520417

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.675	23	348	Class A	300	3%cc 2%gel



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

Four Boys Unit #1-35

35-4s-37w Cheyenne,KS

Start Date: 2020.06.10 @ 22:15:00
End Date: 2020.06.11 @ 05:47:45
Job Ticket #: 66503 DST #: 1

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

Printed: 2020.06.15 @ 08:31:30

DRILL STEM TEST REPORT

Cobalt Energy LLC

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

35-4s-37w Cheyenne,KS

Four Boys Unit #1-35

Job Ticket: 66503 **DST#: 1**

Test Start: 2020.06.10 @ 22:15:00

GENERAL INFORMATION:

Formation: **LKC "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:17:15
Time Test Ended: 05:47:45

Test Type: Conventional Bottom Hole (Initial)
Tester: James Winder
Unit No: 83

Interval: 4392.00 ft (KB) To 4438.00 ft (KB) (TVD)
Total Depth: 4438.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

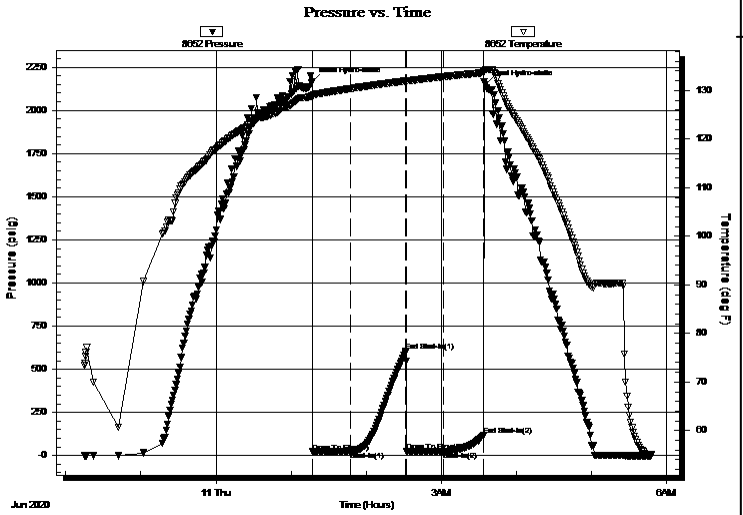
Reference Elevations: 3340.00 ft (KB)
3335.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8652 **Outside**

Press@RunDepth: 24.50 psig @ 4393.00 ft (KB)
Start Date: 2020.06.10 End Date: 2020.06.11
Start Time: 22:15:05 End Time: 05:47:44

Capacity: 8000.00 psig
Last Calib.: 2020.06.11
Time On Btm: 2020.06.11 @ 01:17:00
Time Off Btm: 2020.06.11 @ 03:35:15

TEST COMMENT: 30 - IF: Blow built to 1/4", slowly died back to 1/8"
45 - ISI: No blow back
30 - FF: No blow
30 - FSI: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2168.12	128.99	Initial Hydro-static
1	21.07	128.57	Open To Flow (1)
31	22.84	130.37	Shut-In(1)
75	602.37	131.96	End Shut-In(1)
76	23.49	131.90	Open To Flow (2)
105	24.50	132.83	Shut-In(2)
137	115.16	133.65	End Shut-In(2)
139	2149.02	134.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.01
0.00	Trace of oil in tool	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: Larry Nicholson

35-4s-37w Cheyenne,KS

Four Boys Unit #1-35

Job Ticket: 66503 **DST#: 1**

Test Start: 2020.06.10 @ 22:15:00

GENERAL INFORMATION:

Formation: **LKC "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:17:15
Time Test Ended: 05:47:45

Test Type: Conventional Bottom Hole (Initial)
Tester: James Winder
Unit No: 83

Interval: 4392.00 ft (KB) To 4438.00 ft (KB) (TVD)
Total Depth: 4438.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

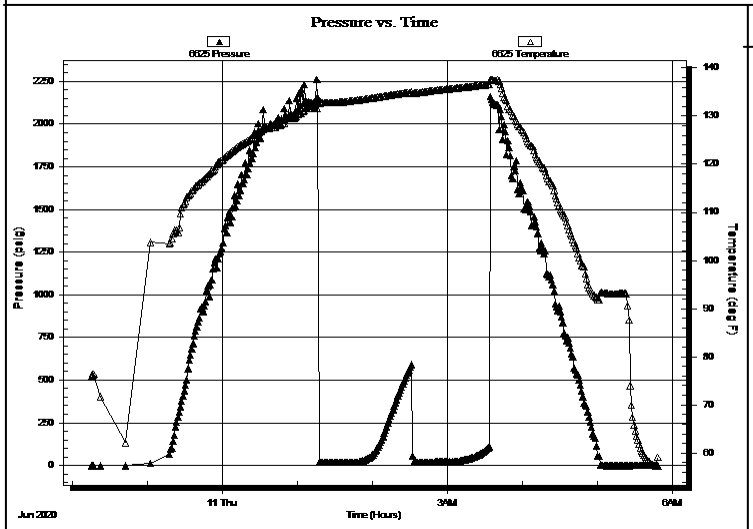
Reference Elevations: 3340.00 ft (KB)
3335.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6625 **Inside**

Press@RunDepth: psig @ 4393.00 ft (KB)
Start Date: 2020.06.10 End Date: 2020.06.11
Start Time: 22:15:05 End Time: 05:48:14

Capacity: 8000.00 psig
Last Calib.: 2020.06.11
Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to 1/4", slowly died back to 1/8"
45 - ISI: No blow back
30 - FF: No blow
30 - FSI: No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.01
0.00	Trace of oil in tool	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: Larry Nicholson

35-4s-37w Cheyenne,KS

Four Boys Unit #1-35

Job Ticket: 66503 **DST#: 1**

Test Start: 2020.06.10 @ 22:15:00

Tool Information

Drill Pipe:	Length:	4203.00 ft	Diameter:	3.80 inches	Volume:	58.96 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	178.00 ft	Diameter:	2.25 inches	Volume:	0.88 bbl	
					Total Volume:	59.84 bbl	

Drill Pipe Above KB:	22.00 ft
Depth to Top Packer:	4392.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	46.00 ft
Tool Length:	79.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2500.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		92000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	70000.00 lb
	Final	70000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4360.00		
Shut In Tool	5.00			4365.00		
Hydraulic tool	5.00			4370.00		
Jars	5.00			4375.00		
EM Tool	4.00			4379.00		
Safety Joint	3.00			4382.00		
Packer	5.00			4387.00	33.00	Bottom Of Top Packer
Packer	5.00			4392.00		
Packer - Shale	0.00			4392.00		
Stubb	1.00			4393.00		
Recorder	0.00	6625	Inside	4393.00		
Recorder	0.00	8652	Outside	4393.00		
Perforations	6.00			4399.00		
Blank Spacing	34.00			4433.00		
Perforations	2.00			4435.00		
Bullnose	3.00			4438.00	46.00	Bottom Packers & Anchor
Total Tool Length:	**79.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

35-4s-37w Cheyenne,KS

Four Boys Unit #1-35

Job Ticket: 66503 **DST#: 1**

Test Start: 2020.06.10 @ 22:15:00

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:	ppm
Viscosity:	63.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.80 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2300.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

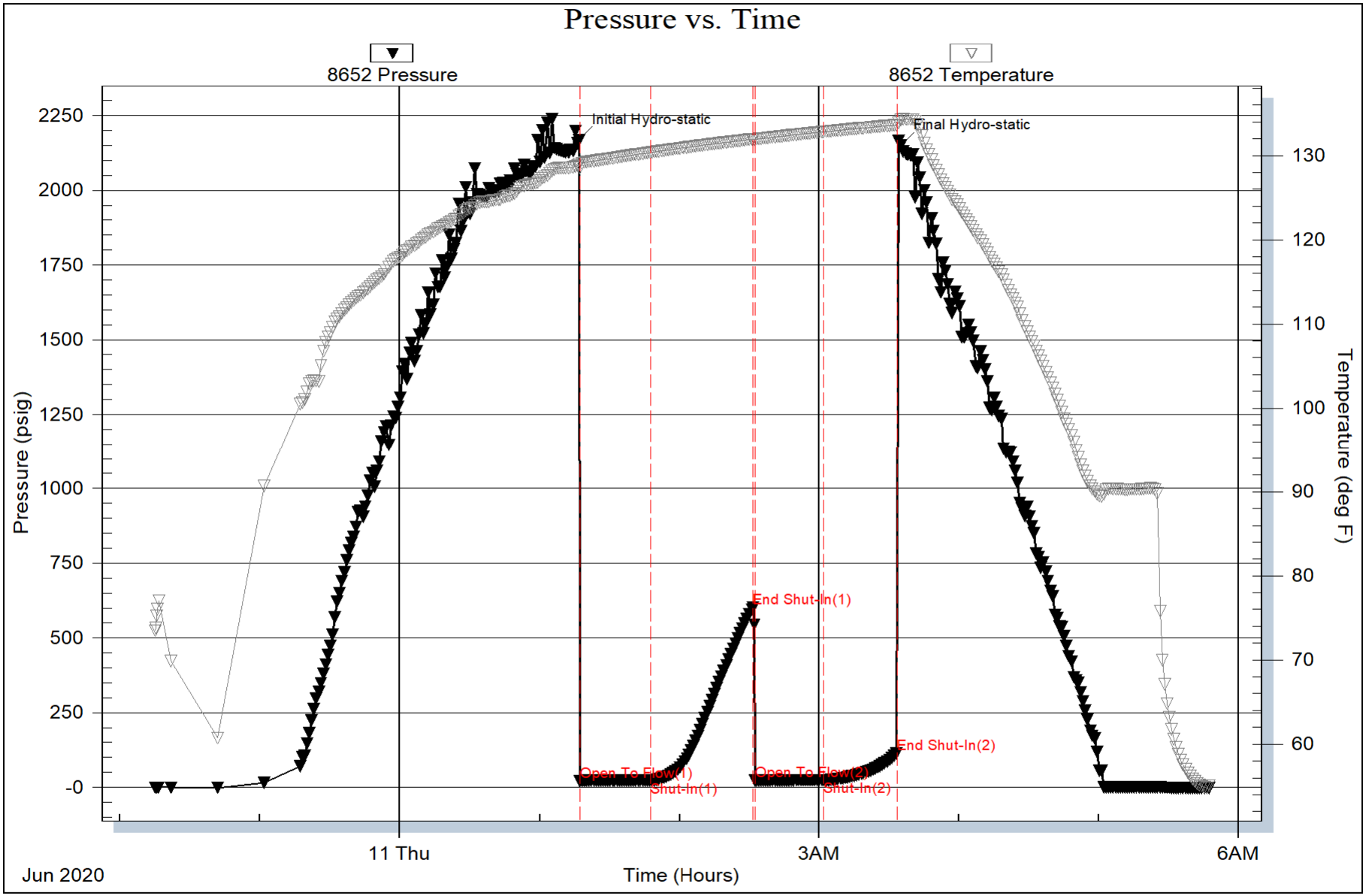
Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100%	0.010
0.00	Trace of oil in tool	0.000

Total Length: 2.00 ft Total Volume: 0.010 bbl

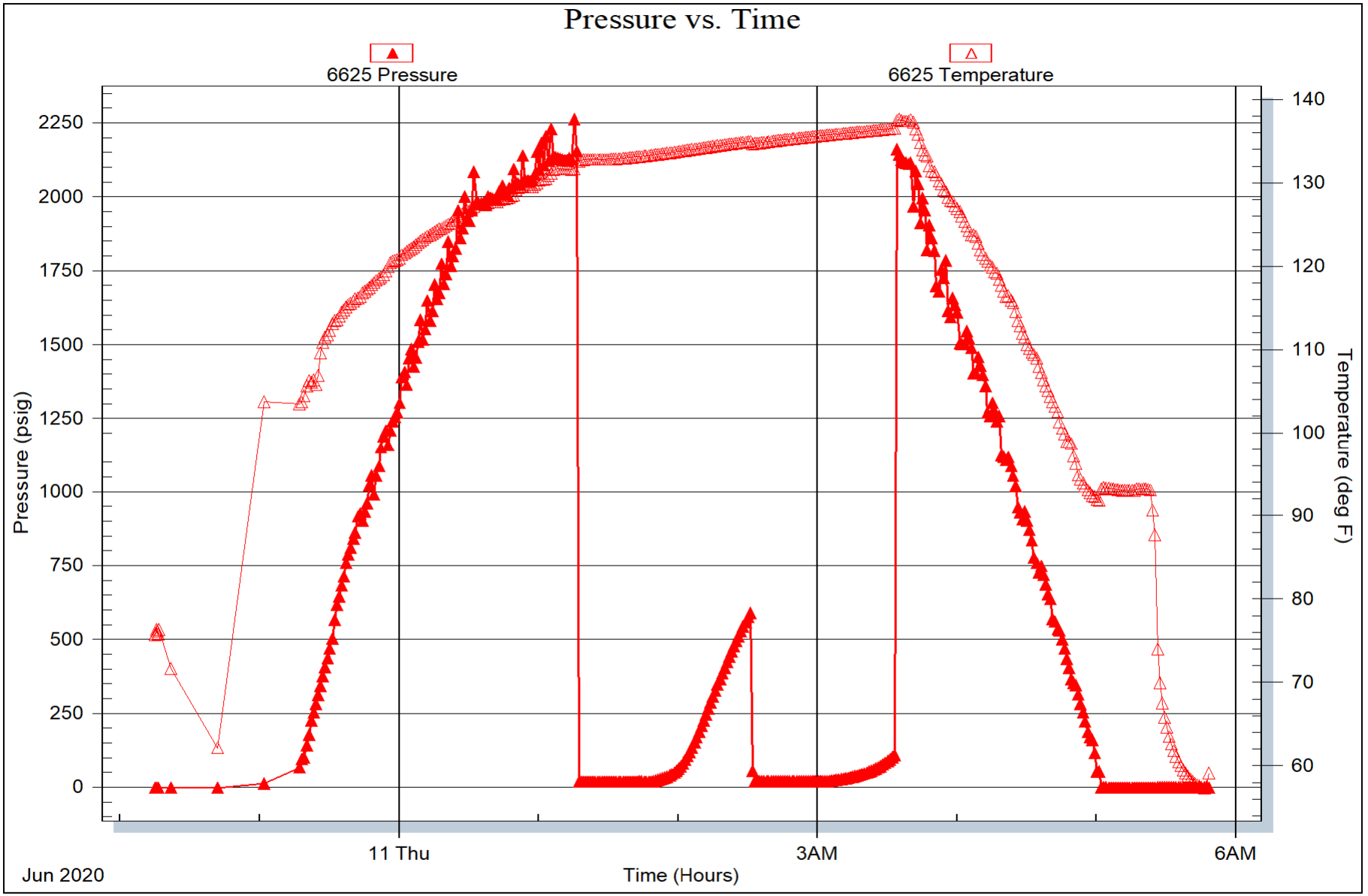
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8652 **Outside** Cobalt Energy LLC Four Boys Unit #1-35 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 66503 Printed: 2020.06.15 @ 08:31:31

Serial #: 6625 **Inside** Cobalt Energy LLC Four Boys Unit #1-35 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 66503 Printed: 2020.06.15 @ 08:31:31

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket 66503

NO.

Well Name & No. Four Boys Unit #1-35 Test No. 1 Date 6-10-20

Company Cobalt Energy LLC Elevation 3340 KB 3335 GL

Address 115 S. Belmont #12 PO Box 8037 Wichita, KS 67208

Co. Rep / Geo. Larry Nicholson Rig Murfin #3

Location: Sec. 35 Twp 4s Rge. 37w Co. Cheyenne State KS

Interval Tested 4392 - 4438 Zone Tested LKC "J"

Anchor Length 46 Drill Pipe Run 4203 Mud Wt. 9.4

Top Packer Depth 4387 Drill Collars Run 178 Vis 63

Bottom Packer Depth 4392 Wt. Pipe Run - WL 6.8

Total Depth 4438 Chlorides 2300 ppm System LCM 2

Blow Description IF: Blow built to 1/4" slowly died back to 1/8"

ISI: No blowback

FF: No blow

FSI: No blow

Rec 2	Feet of Mud	%gas	%oil	%water 100	%mud
Rec	Feet of Trace of oil in tool	%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 2 BHT 134 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 2168	☑ Test 1300	T-On Location 19:25 6/10
(B) First Initial Flow 21	☑ Jars 250	T-Started 22:15 22:52
(C) First Final Flow 23	☑ Safety Joint 75	T-Open 1:17
(D) Initial Shut-In 602	☐ Circ Sub	T-Pulled 3:33
(E) Second Initial Flow 23	☐ Hourly Standby	T-Out 5:35 6/11
(F) Second Final Flow 25	☑ Mileage 118 RT X 2 236	Comments
(G) Final Shut-In 115	☐ Sampler	loaded tools 6/12 15:00
(H) Final Hydrostatic 2149	☐ Straddle	
	☑ Shale Packer 250	☑ EM Tool 350
Initial Open 30	☐ Extra Packer	☐ Ruined Shale Packer
Initial Shut-In 45	☐ Extra Recorder	☐ Ruined Packer
Final Flow 30	☐ Day Standby	☐ Extra Copies
Final Shut-In ~~45~~ 30	☐ Accessibility	Sub Total 0
	Sub Total 2111	Total 2111
		MP/DST Disc't

Approved By ____ Our Representative James Winder

CEMENT TREATMENT REPORT

Customer:	Cobalt Energy, LLC	Well:	Four Boys Unit 1-35	Ticket:	ICT3633
City, State:	Oakley KS	County:	Cheyenne KS	Date:	6/5/2020
Field Rep:	Jay Ruzicka	S-T-R:	35-4S-37W	Service:	Surface

Downhole Information	
Hole Size:	12.25 in
Hole Depth:	347 ft
Casing Size:	8 5/8 in
Casing Depth:	346 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	21.0 bbls

Calculated Slurry - Lead	
Blend:	60/40 poz
Weight:	14.8 ppg
Water / Sx:	5.2 gal / sx
Yield:	1.21 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	64.6 bbls
Total Sacks:	300 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	#DIV/0! sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
1:30 PM			-	-	CALLED OUT
4:00PM				-	ON LOC W/TRUCKS SAFETY MTG
8:45 PM				-	CASING ON BOTTOM CIRC W/RIG
9:00PM	4.5	100.0	5.0		H20 SPACER
9:02 PM	5.0	150.0	64.6		MIX CEMENT @ 14.8 PPG 300 SKS
9:17 PM	5.0	-		-	START DISP W/H20
9:30 PM		200.0		-	DISP IN CLOSE IN W.H.
				-	
				-	JET CELLAR GOOD CEMENT IN CELLAR
				-	
				-	JOB COMPLETE THANK YOU SCOTTY
				-	
				-	
				-	
				-	
				-	
				-	
				-	
				-	
				-	
				-	
				-	
				-	
				-	
				-	

	CREW	UNIT
Cementer:	Scotty	1
Pump Operator:	Cory Davis	205
Bulk #1:	John Pauley	208
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.8 bpm	113 psi	70 bbls

Hurricane Services, Inc.
250 N. Water
Wichita, KS 67202

GEOLOGICAL REPORT **FINAL**

Larry A. Nicholson

NAD 27
39.66159751
-101.44811818

COMPANY & WELL Cobalt Energy, Four Boys Unit #1-35
LOCATION 2241' FSL 327' FWL SW NW NW SW
SEC 35 TWP 04S RGE 37W
COUNTY Cheyenne STATE Ks

COMPANY Cobalt Energy, LLC
API # 15-023-21546 FIELD Wildcat
LEASE Four Boys Unit WELL # #1-35
LOCATION SW NW NW SW
SURVEY 2241' FSL 327' FWL
SECTION 35 TWP 04S RGE 37W
COUNTY Cheyenne STATE Kansas

CONTRACTOR Murfin Rig # 3
SPUD 06-05-20 1:30 pm COMP.
RTD 4950 10:22pm 06-12-20 LTD 4946
MUD UP AT 3550
MUD TYPE Chemical, Mud-Co Reid Atkin

ELEVATIONS
K.B. 3340
D.F.
G.L. 3335
All measurements from K.B. 3340

SAMPLES SAVED FROM 3800 TO RTD
DRILLING TIME FROM 3800 TO RTD
SAMPLES EXAMINED FROM 3800 TO RTD
GEOLOGICAL SUPERVISION FROM 3800 TO RTD
WELLSITE GEOLOGIST LARRY A. NICHOLSON

CASING RECORD
Conductor of w/ sx
Surface 348 of 8 5/8 w/ 300 sx
Production of w/ sx
Drlg Supervision

ELECTRICAL SURVEYS Dual, Den, Neu, Micro Sonic Pioneer D Schmidt

FORMATION TOPS & STRUCTURAL POSITION

FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELEC LOG TOPS	SUBSEA DATUM	REFERENCE WELL A	REFERENCE WELL B
Anhydrite			3080	+260		
Heebner			4180	-840		
Lansing			4238	-898		
Muncie Creek			4358	-1018		
Hushpuckney			4462	-1122		
LANS L			4472	-1132		
BKC			4504	-1164		
Pawnee			4612	-1272		
Cherokee			4690	-1350		
Mississippian			4892	-1552		
RTD			4950	-1610		
LTD			4946	-1606		

REFERENCE WELLS A: B:

LAN 7/92, Modified 5/05, 11/11, 4/12, 4/18 1inch =25.4mm 8.5 x 97.5 216 mm x 2460 mm

DRILLSTEM TEST SUMMARY :

Dst #1 4392-4438 (LKC J) 30 45 30 30 IF:21-23 FF:23-25 SI:602-115
Rec 2' M (100M) IF 1/4" decr to 1/8", nr FF n blow, nr BHT 134

REMARKS & RECOMMENDATIONS:

Based on low Structural Position and no developed pays. The well was P&A

LEGEND

Dolomite, Limestone, Shale, Carbonaceous Shale, Sandstone, Chert, Anhydrite

SAMPLE DESCRIPTIONS

Ls, lt gry sli motld md gry, micro xln, few granular foss, n por, n stn, n odor, n sho
Sh, aqua gmgry, lt brn silty
Sh, aqua grngry, lt brn silty
Silty Ss, lt aqua grn, clustr pyrite
Ls, wht, fn-md bioclastic oolitic, spary calc intra grn cmt, pr por, n snt, n odor, n sho
Ls, wht, fn-md bioclastic oolitic, spary calc intra grn cmt, pr por, n stn, n odor, n sho
Ls, brngry, vfn xln, silty, n por, n stn, n odor, n sho
Ls, lt crm, micro xln, trc spary cacl xln, trc foss frag, n -pr por, n stn, n odor, n sho
Dol ls, vfn xln, spary calc xln, n-pr por, 3% w/ool grn & frag, n stn, n odor, n sho
Dol ls, vfn xln, spary calc xln, n-pr por, 3% w/ool grn & frag, n stn, n odor, n sho
Ls, crm, vfn xln, sli dol spary calc, pr por, n stn, n odor, n sho
Sh, brn vsft, md gry, few clustry pyrite
Sh, brn vsft, md gry sli lmy & silty
Dol, brn, vfn xln, pr por, n sho
Sh, brn vsft, md gry sli lmy & silty
Sh, brn vsft, md gry sli lmy & silty
Ls, wht gry, dull
Sh, md gry, brn, brn org,
Ls, wht, vfn xln, sli dol calc xln in part, n sho
Sh, md gry, brn, brn org,
Ls, wht, vfn xln, sli dol calc xln in part, pr por, trc spks brn gil stn in few, fnt dul yel flor, n odor, nsfo
Ls, wht, vfn xln, sli dol calc xln in part, few spary foss frag, pr-fr por, fnt dul yel min flor, n odor, nsfo
Ls, wht, vfn xln, sli dol calc xln in part, few spary foss frag, pr-fr por, fnt dul yel min flor, n odor, nsfo
Ls, crm, micro xln, few chinoid foss, hvy spary sec cmt, n por, vfn xln, spary calc xln, sli dol, chlky, n stn, n odor, n sho
Ls, crm, micro xln, decr foss, fn spary calc xln & fn foss, sli dol, n stn, n odor, n sho
Dol ls, wht crm, vfn xln, spary calc xln & repl fn foss frag, 10% micro xln, dns, n stn, n odor, n sho
Dol ls, wht crm, vfn xln, spary calc xln, 10% micro xln, scat blky chert, n stn, n odor, n sho
Sh, brn org, md grygrn
Dol ls, wht crm, micro-vfn xln, 3% hvy dmt oolites, scat wht crm chert, n stn, n sho
Dol ls, wht crm, vfn xln, scat lt gry foss chert, n stn, n sho
Sh, brn, md gry, aqua grn sndy
Dol ls, wht crm, vfn xln, scat lt gry foss chert, n stn, n sho
Dol ls, wht crm, micro-vfn xln, trc spary calc xln, scat clr -crm chert, n stn, n sho
Sh, brn, md gry, aqua grn sndy
Dol ls, wht crm, micro-vfn xln, trc spary calc xln, scat clr -crm chert, n stn, n sho
Dol ls, wht crm, micro-vfn xln, trc spary calc xln, scat clr -crm chert, n stn, n sho
Dol ls, wht crm, micro-vfn xln, trc spary calc xln, scat clr -crm chert, n stn, n sho
Sh, brn, md gry, aqua grn sndy, few clustry pyrite
Ls, wht crm, micro-vfn xln, scat wht chert,
Sh, brn, md gry, aqua grn sndy
Sh, brn, md gry, aqua grn sndy
Ls, crm tan, micro xln, dns, 15% fn hash, trc ppt vugs, hvy spary calc cmt, chlky, trc tan chert, n stn, n odor, n sho
Ls, crm tan, micro xln, dns, 15% fn hash, trc ppt vugs, hvy spary calc cmt, chlky, trc tan chert, n stn, n odor, n sho
Ls, lt gry, micro xln, dns, n vis por, scat lt gry chert, n stn, n odor, n sho
Sh, blk carb
Sh, blk carb, dk gry
Ls, lt gry, micro xln, dull, dsn, n stn, n odor, n sho
Sh, blk carb, dk gry
Ls, gry motld dk gry pisolite
Sh, grngry
Ls, gry motld dk gry pisolite
Ls, wht lt crm, vfn xln, 20% spary calc xln sli dol, pr-fr por, chlky, scat lt gry chert, n stn, n odor, n sho
Sh, md-dk gry, blk carb, sli silty
Ls, lt-md gry, micro xln, lithic, dns, n vis por, n stn, n odor, n sho
Ls, lt tan-tan gry, micro xln, dns, few w/fn foss spary frags, vfn xln, trc spary calc, 2-3 cutn w/ spks dk brn gil stn, n odor, nsfo
Ls, lt-md gry, micro xln, dns, 10% vfn xln sli dol, sli silty, lt gry chert, 3% calc silty-sndy, fn xln, n sho
Ls, crm lt gry, vfn xln, silty, sndy, chlky, trc foss frags, n vis por, n stn, n odor, n sho
Sh, 85% lt brn silty, 15% lt-md gry silty
95% Sh, lt brn silty, sli calc
Sh, lt brn silty, sli calc (85% smpl)
Ls, lt gry, vfn xln, trc calc xln, silty, n stn, n odor, n sho
Ls, wht crm, micro xln, litic, dns, vfn xln, trc spary calc, scat spary foss frag, scat lt tan chert, chlky, n stn, n odor, n sho
Ls, wht crm, micro xln, litic, dns, vfn xln, trc spary calc, scat spary foss frag, scat lt gry chert, n stn, n odor, n sho
Sh, brn, vsft, silty in part
Ls, wht lt gry, micro xln, dns, n vis por, scat lt gry chert, n stn, n odor, n sho
Chert, pink-rd tranl, blocky, sharp
Sh, brn, vsft, silty in part
Ls, lt gry, micro-vfn xln, trc spary calc xln, pr por, n stn, n odor, n sho
Ls, lt gry, micro-vfn xln, trc spary calc xln, pr por, 2% ln spary foss frag, pr por, few brite red blocky chert, few pyrite n stn, n sho
Ls, wht lt crmgry, micro xln, lithic, few spary calc xln & spary fn foss frag, 3% md foss, chalky, scat org chert, n stn, n odor, n sho
Ls, wht lt crmgry, micro xln, lithic, few spary calc xln & spary fn foss frag, 3% md foss, chalky, n stn, n odor, n sho
Sh, dk gry- blk
Sh, brn org, vsft, silty
Ls, wht crm, varies micro xln w spary rem md foss, & sec cmt, vfn xln w/spary xln, n-pr por,
Ls, crm,-micro-vfn xln, few rem fn foss, 4% sli granular, 10 cutn w/ppt vugs, w/spks tary O, blu wht cut, n odor, nsfo
Ls, wht crm, micro xln, trc spary calc xln, dns, 10% granular/remn md foss frag, hvy calc cmt, pr por, chky in part, n stn, n
Ls, wht crm lt gry, micro xln, trc spary calc xln, dns, n-pr por, 4% lt gry chert, n stn, n odor, n sho
Ls, micro xln, lithic, 10% fn bioclastics hvy spary calc cmt, few ppt & dissolution vugs, scat lt gry & tan chert, chalky, n stn, n odor, n sho
Sh, 10 cutn blk sli splintery
Sh, blk, dk gry, silty britl-carb 95%
Ls, blk dkbrn, micro xln, dns,
Ls, wht lt gry, micro xln, trc spary calc, dns, n-pr por, 3 cutn md brn patchy stn in dry, n odor, nsfo
Ls, wht lt gry, micro xln, trc spary calc, dns, n-pr por, scat crm chert, n stn, n odor, n sho
Ls, md gry sli motld, micro xln, trc spary calc, dns, n-pr por, scat lt brn chert, n stn, n odor, n sho
Sh, dk gry, dns carb
Sh, grngry silty, britl, brn vsft, lt brn sft clay
Sh, dk brn, lt brn silty, trc grngry silty
Ls, lt tan crm-lt gry, micro xln, dns, n-pr por, 3 cutn w/patchy stn, few spts md brn O in tray, n odor
Ls, lt-md gry, micro xln, lithic dns, n-pr por, scat md gry chert, n stn, n odor, n sho
Ls, lt grybrn micro xln, dns, n-pr por, few spot rsp, spts brn O on break, vvfnt odor, sptd stn dry
Ls, lt grybrn micro xln, Aa, spts brn O on break, vvfnt odor, sptd stn dry
Sh, dk gry
Sh, brnorg, sli silty, md gry
Sh, dk gry, md gry, brn, maron
Ls, wht crm, vfn xln, sli granular, sli dol spary calc xln, britl, fr por, n stn, n odor, n sho
Ls, wht crm, vfn xln, sli granular, sli dol spary calc xln, britl, fr por, n stn, n odor, n sho
Sh, dk gry, md gry, brn, few clustr pyrite
Ls, lt tan, micro xln, lithic, few hvy cmt ool, n por, lt tan chert, n stn, n odor, n sho
Ls, tan, bioclastic, spary cacl sec cmt, n-pr por, scat crm chert, chlky, n stn, n odor, n sho
Ls, whtcrm, micro xln, lithic, dns, 15% vfn xln, britl, 5% fn foss hash in part, scat tan chert
Sh, brn org silty, lt gry
Ls, crmtan, vfn xln, silty-sndy, spary calc xln, n-pr+ por, n stn, n odor, n sho
Ls, crm, micro xln, lithic, few rem spary calc foss, n vis por, scat lt gry chert, n stn, n odor, n sho
Ls, lt gry, micro xln, dns, n por, vfn xln, pr por, scat lt gry chert,
Sh, brn org silty, lt gry & brn silty calc
Ls, crmltgry, micro xln, lithic, few rem foss includs, n-pr por, n stn, n odor, n sho
Ls, crmltgry, micro xln, lithic, few rem foss includs, n-pr por, n stn, n odor, n sho
Ls, md gry, micro-vfn xln, calc siltstn, n stn, n odor, n sho
siltstn, md gry, calc,
Sh, md gry calc, maron wxy
Silty mudstone, md gry
Silty mudstone, md grry, org
Ls, lt gry, micro xln, dns
Ls, crm-lttan gry, vfn xln, spary calc xln - granular in part, 5% ool & bioclastic w/hvy sec cmt, ppt intra xln vugs in part, n stn, n
Sh, maron, lt gry calc, brn org silty
Sh, maron, lt gry calc, brn org silty
Ls, crm, ool & bioclastic hash, intra clast spary calc cmt, & ppt vug, pr-fr por, n stn, n
Ls, crm, ool & bioclastic hash, intra clast spary calc cmt, & ppt vug, decr por from
Ls, crm, ool & bioclastic hash, intra clast spary calc cmt, & ppt vug, decr por from
Ls, crm, Aa, decrese ool & bioclastic hash, intra clast spary calc cmt, & ppt vug, decr
Ls, md gry, micro-vfn xln, dns-britl, scat lt gry chert, n stn, n odor, n sho
Sh, blk carb, md gry calc
Ls, lt wht crm, micro xln, spary calc xln por,
Sh, md gry calc
Ls, lt wht crm, micro xln, dul, vfn xln, britl, n sho
Ls, lt wht crm, micro xln, dul, vfn xln, britl, n sho
Ls, md gry, micro xln, dns, scat lt gry tanl chert, n sho
Sh, blk carb, org, maron,
Ls, md gry, micro xln, dns, scat lt gry tanl chert, n sho
Sh, md gry, brn, maron, aqua grn
Ls, crm lt gry, micro xln, dull, dns, vfn xln, britl nearly chalky, lt gry tranl chert, n stn, n
Ls, crm lt gry, micro xln, dull, dns, vfn xln, britl nearly chalky, lt gry tranl chert, n stn, n
Sh, blk carb, burns, coal odor
Ls, crm lt gry, micro xln, dull, dns, few w/spary calc xln, n por, scat dull gry chert
Ls, crm lt gry, micro xln, dull, dns, few w/spary calc xln, n por, scat dull gry chert
Sh, blk carb, burns, coal odor, brnorg, brn
Ls, crm lt gry, micro xln, dull, dns, n por, trc dull lt cmr gry chert, n stn, n odor, n sho
Ls, crm lt gry, micro xln, dull, dns, n por, trc dull lt cmr gry chert, few clustr pyrite, n stn,
Ls, crm lt gry, micro xln, dull, dns, n por, trc dull lt cmr gry chert, chlky n stn, n odor, n
Sh, md gry carb, few clustry vfn gry Ss
Ls, tan, micro xln, lithic, n por, trc spary calc xln in few, trc lt brn chert n stn, n odor, n sho
Ss, md gry, vfn grn well srt w/few crs qtz in dns clustr,
Ls, motld gry, hvy cmt, fn qtz grn, trc dk grn chlorite, few with some dol, n stn, n odor, n
Sh, grygrn, maron, md gry
Ls, crm, vfn xln, sli dol, chlky, lt gry tranl chert, n stn n odor, n sho
Sh, grygrn, maron, md gry
Ss, varies, hvy cmt clr qrt, mix fn-md wht lt gry, md-crs grn rnd, pr por, n stn, n odor, n
Ls, lt gry, micro xln, dull dns, n por
90% Ss, crm pnk tnt, clustr fn-md, subrnd, mod sort, consolidate, pr-fr por, n stn, n Oflor, n odor, n sho
Sh, grngry, brn wxy, maron, aqua grn,
Ss, wht & pnk, consolidated, varies vfn-md xln, suband, pr por, n stn, n odor, n sho
Sh, grngry, brn wxy, maron, aqua grn,
Ss, wht & pnk, consolidated, varies vfn-md xln, suband, pr por, n stn, n odor, n sho
Sh, md gry, maron
Ls, wht lt gry, micro xln, lithic, dns, n por, scat crm chert, n stn, n odor, n sho
Sh, md-dk gry, splintery
Ls, wht lt gry, micro xln, lithic, dns, n por, scat crm chert, n stn, n odor, n sho
Ss, few qtz sub ang bed clustrn
Ls, wht lt gry, micro xln, lithic, dns, n por, scat crm chert, n stn, n odor, n sho
Sh, brn, few mutrd yell, grngry
Ls, wht lt gry, micro xln, dns,few w/spary calc xln, n por, scat crm chert, n stn, n odor,
Sh, dk gry, blk
Sh, dk gry, blk
Ss, dk grn & clr qtz, fn grn, calc, clustrs, consol, n stn, n odor, n sho
Ss, dk grn & clr qtz, fn grn, calc, clustrs, consol, n stn, n odor, n sho
Sh, dk gry, blk
Sh, dk grngry wxy, brn wxy, brn, few clustr pyrite
Sh, dk grngry wxy, dk gry few clustr pyrite
Sh, dk grngry wxy, dk gry few clustr pyrite
Sh, dk gry, lt gry, dk grn gry
Chert, crm weathrd, brite redorg tranl, crm sharp,
Chert, Aa
Dol, lt brn, vfn xln, pr -fr por, n stn, n odor, n sho
Dol, lt gry, sli motld, vfn xln, britl, few w/rem foss, scat crm chert, n stn, n odor, n sho
Dol, lt gry, sli motld, vfn xln, britl, trc-abd dk grn chlorite spks, few w/rem foss, scat crm
Dol, lt gry tan, sli motld, vfn xln, britl, 20 clustr dk grn chlorite spks, few w/rem foss,
Dol, lt gry tan, sli motld, vfn xln, britl, 10% granular rem oolite rexln, 20 clustr dk grn

Wiper trip 12 stands
TOH for Log

REMARKS

Spud 1:30 PM..06-05-2020
RTD 10:22 PM 06-12-2020

"BIT RECORD"
Surface Bit : HTC B37DX, 12 1/4" 3-15,, ser M22la2, surf. 348'
Bit No.1 Smith MDI516, 7-7/8", 5-14 ser JV1757 in at 348 out at 4750
Bit No.2 Smith MDI516, 7-7/8", 3-15, ser RJ945Y in at 4750 out at 4950

"VERTICAL SURVEYS"
.50° @ 348' 1.00° @ 3158'
.75° @ 872' 1.50° @ 3750'
.50° @ 1400' .75° @ 4438'
1.75° @ 2654' .75° @ 4950'
1.50° @ 2841'

"PUMP DATA"
Emsco D-375
Stroke 14", Liner 6"
62 Strk/min
357 GAL/Min 8.5 BBL/Min

"DAILY REPORT"
06-05-2020 -1:30 PM Spud
Drlg to 12 1/4" to 348'
Set new 8jts 8-5/8" 23# set @ 348'
300 sx com
3%CC, 2% Gel
Plug down 9:30 pm 06-05-20 cmt circulated, Hurricane
Drlg plug 5:30 am 06-06-20
06-06-2020 - 7:00 AM Drlg @ 480'
06-08-2020 - 7:00 AM Drlg @ 3,550'
06-09-2020 - 7:00 AM Drlg @ 3,930' Bit trip @ 3,750'
06-10-2020 - 7:00 AM Drlg @ 4,300'
06-11-2020 - 7:00 AM Drlg @ 4,438'
06-12-2019 - 7:00 AM Drlg @ 4,710'
06-12-2019 - 10:22 PM RTD @ 4,950'
Short trip 12 stnds
Circ 1.5 hrs
TOH for logs
06-13-2020 - 4:00 AM Rig up LogTech LTD @ 4,946'
06-13-2020 - 7:45 AM Rig Down Loggers
P&A

Mud Check 5 at 3,899'
vis: 54 wt: 9.1 Chlor: 2,000
LCM: 2# Ph: 11.0 WL:7.2

Mud Check 6 at 4,314'
vis: 63 wt: 9.4 Chlor: 2,300
LCM: 2# Ph: 11.0 WL:6.8

DST (1) 4392-4438
LANS J
30-45-30-30
IF: 3/4" blow
IS: n return
FF: n blow
FS: n return
Total Rec: 2' M cut oil in tool
FP: 21-23 FFP: 23-25
SIP: 602 FSIP: 115
HP: 2168 FHP: 2149
BHT 134° F

Mud Check 7at 4,438'
vis: 59 wt: 9.2 Chlor: 2,800
LCM: 3# Ph: 11.0 WL:7.2

Mud Check 8 at 4,712'
vis: 54 wt: 9.3 Chlor: 3,000
LCM: 3# Ph: 11.0 WL:7.2

COMPANY Cobalt Energy, LLC
LEASE Four Boys Unit #1-35 SW NW NW SW
LOCATION 2241' FSL 327' FWL SEC. 35 TWP 04S RGE 37W
COUNTY Cheyenne STATE Ks

ELEVATIONS
K.B. 3340
D.F.
G.L. 3335
All measurements from K.B. 3340

250 N. Water St., Suite #200
Wichita, KS 67202

HURRICANE SERVICES INC

Customer	Cobalt Energy LLC	Lease & Well #	Four Boys Unit 1-35			Date	6/13/2020
Service District	Oakley Ks	County & State	Cheyenne KS	Legals S/T/R	35-4-37	Job #	
Job Type	Plug	☑ PROD	☐ INJ	☐ SWD	New Well? ☑ YES ☐ No	Ticket #	ICT-3674

Equipment #	Driver
74	Jesse Jones
230	John Polley
242	Kale Ochs

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☐ Lockout/Tagout	☐ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☐ Required Permits	☐ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☑ Slip/Trip/Fall Hazards	☐ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☑ Overhead Hazards	☑ Muster Point/Medical Locations
☐ Hearing Protection	☑ Fire Extinguisher	☑ Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity			Net Amount
C010	Cement Pump	ea	1.00			$562.50
M010	Heavy Equipment Mileage	mi	66.00			$198.00
M015	Light Equipment Mileage	mi	66.00			$99.00
M020	Ton Mileage	tm	781.94			$879.68
CP055	H-Plug	sack	255.00			$2,486.25
FE290	8 5/8" Wooden Plug	ea	1.00			$112.50

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

				Net:	$4,337.93
Total Taxable	$ -	Tax Rate:			
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.			Sale Tax:	$ -	
			Total:	$ 4,337.93	

HSI Representative: *Jesse Jones*

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. DISCLAIMER NOTICE: Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results fom the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well informaiton in determining taxable services.

X_____ CUSTOMER AUTHORIZATION SIGNATURE

CEMENT TREATMENT REPORT

Customer:	Cobalt Energy LLC	Well:	Four Boys Unit 1-35	Ticket:	ICT-3674
City, State:	Oakley Ks	County:	Cheyenne KS	Date:	6/10/2020
Field Rep:		S-T-R:	35-4-37	Service:	Plug

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4950 ft
Casing Size:	in
Casing Depth:	ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	82.2 bbls

Calculated Slurry	
Weight:	13.8 # / sx
Water / Sx:	6.93 gal / sx
Yield:	1.42 ft^3 / sx
Bbls / Ft.:	
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	64.3 bbls
Total Sacks:	255.0 sx

Product	% / #	#
Class A		
Poz		
Gel		
CaCl		
Gypsum		
Metso		
Kol Seal		
Flo Seal		
Salt (bww)		
Total		-

TIME	RATE	PSI	BBLs	REMARKS
11:20A				Arrived on location
11:25A				Safety meeting
11:30A				Rig up
12:15P	4.0	250.0	5.0	H20 ahead
12:17P	5.0	400.0	12.6	1st plug @ 3100' with 50 sks H-plug
12:20P	5.0	380.0	5.0	H20 behind
12:24P		200.0	44.0	Displace with rig mud 3 min
12:28P				Pull pipe to 2290'
1:04P	3.2	190.0	5.0	H20 ahead
1:06P	6.0	500.0	25.2	2nd plug @ 2290' with 100 sks H-plug
1:11P		200.0	4.0	H20 behind
1:14P		100.0	32.5	Displace with rig mud 2 mins
1:20P				Pull pipe to 400'
2:21P	4.0	60.0	5.0	H20 ahead
2:23P	4.5	120.0	12.6	3rd plug @ 400' with 50 sks of H-plug
2:26P	4.0	70.0	5.6	Displace with H20
2:27P				Pull pipe to 40'
3:24P	2.5	50.0		Rat hole with 30 sks of H-plug
3:29P	2.5	50.0		Mouse hole with 15 sks of H-plug
3:32P	2.5	50.0		Top 10
3:34P				Plug down
3:36P				Wash up
3:41P				Rig down
4:00P				Depart location

	CREW	UNIT
Cementer:	Jesse Jones	74
Pump Operator:	John Polley	230
Bulk #1:	Kale Ochs	242
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
3.92727 bpm	187 psi	157 bbls

Hurricane Services, Inc.
250 N. Water
Wichita, KS 67202