

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

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 #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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energy services, L.P.

TREATMENT REPORT

Customer <i>Cobalt Energy</i>	Lease No.	Date <i>6-17-2019</i>
Lease <i>Herrmann Unit B 1-36</i>	Well #	
Field Order #	Station <i>Pratt KS. #1718</i>	Casing <i>8 7/8</i>
Type Job <i>PTA</i>	Depth <i>211'</i>	County <i>Ford</i>
	Formation	State <i>KS.</i>
		Legal Description <i>36-25-21W</i>

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Drill Pipe / Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>8 7/8</i>	<i>2 1/2</i>			Pre Pad	Max		5 Min.
Depth <i>211'</i>	Depth <i>1390</i>	From	To	Pad	Min		10 Min.
Volume	Volume	From	To	Frac	Avg		15 Min.
Max Press	Max Press	From	To		HHP Used		Annulus Pressure
Well Connection	Annulus Vol.	From	To	Flush	Gas Volume		Total Load
Plug Depth	Packer Depth	From	To				

Customer Representative	Station Manager <i>Justin Westerman</i>	Treater <i>Carl Falding</i>
Service Units <i>77686 86179 19889 19866</i>		
Driver Names <i>Mike M. B. Jose D.</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>2:30 PM</i>		<i>Drill Pipe</i>			<i>Rig up</i>
<i>4:50 PM</i>					<i>1st plug 1390'</i>
					<i>start Freshwater</i>
	<i>200</i>		<i>25</i>	<i>4</i>	<i>Pump 50 sx Cement</i>
	<i>200</i>		<i>12.5</i>	<i>4.5</i>	<i>Displace with Freshwater</i>
	<i>50</i>		<i>12</i>	<i>3.5</i>	
<i>5:50 PM</i>					<i>2nd Plug 690'</i>
					<i>start Freshwater</i>
	<i>150</i>		<i>12</i>	<i>4</i>	<i>Pump 50 sx Cement</i>
	<i>100</i>		<i>12-73</i>	<i>4.5</i>	<i>Displace with Freshwater</i>
			<i>5</i>	<i>3.5</i>	
<i>6:30 PM</i>					<i>3rd Plug 250'</i>
					<i>start Freshwater</i>
	<i>100</i>		<i>8.5</i>	<i>4</i>	<i>Pump 40 sx Cement</i>
	<i>100</i>		<i>10.18</i>	<i>4.5</i>	<i>Displace with Freshwater</i>
			<i>.5</i>	<i>.5</i>	
					<i>4th Plug</i>
			<i>5.09</i>		<i>Pump 20 sx Cement</i>
<i>7:30 PM</i>					<i>5th Plug Bot Hole</i>
			<i>7.64</i>		<i>Pump 30 sx Cement</i>



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208+0037

ATTN: Larry Nicholson

36-25S-21W Ford,KS

Herrmann Unit B #1-36

Start Date: 2019.06.16 @ 08:45:00

End Date: 2019.06.16 @ 22:11:15

Job Ticket #: 65958 DST #: 1

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

Printed: 2019.06.17 @ 11:23:48



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC
 PO Box 8037
 Wichita KS 67208+0037
 ATTN: Larry Nicholson

Herrmann Unit B #1-36
36-25S-21W Ford,KS
 Job Ticket: 65958 **DST#: 1**
 Test Start: 2019.06.16 @ 08:45:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:41:15
 Time Test Ended: 22:11:15
 Interval: **4740.00 ft (KB) To 4760.00 ft (KB) (TVD)**
 Total Depth: 4760.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2269.00 ft (KB)
 2262.00 ft (CF)
 KB to GR/CF: 7.00 ft

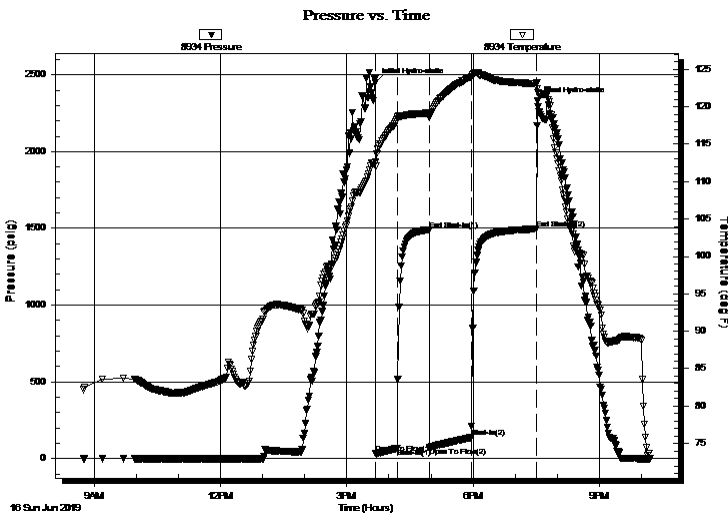
Serial #: 8934

Inside

Press@RunDepth: 137.60 psig @ 4741.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.06.16 End Date: 2019.06.16 Last Calib.: 2019.06.16
 Start Time: 08:45:15 End Time: 22:11:15 Time On Btm: 2019.06.16 @ 15:40:45
 Time Off Btm: 2019.06.16 @ 19:31:30

TEST COMMENT: 30-IF-Fair; Built to 5"
 45-ISI-No Return
 60-FF-Fair; Built to 7"
 90-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2451.41	112.61	Initial Hydro-static
1	32.06	112.03	Open To Flow (1)
32	66.89	118.42	Shut-In(1)
77	1491.68	119.15	End Shut-In(1)
78	71.65	118.82	Open To Flow (2)
137	137.60	123.98	Shut-In(2)
230	1495.73	123.08	End Shut-In(2)
231	2328.21	122.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
135.00	MCW 15%M 85%W	1.91
60.00	HWCM 30%W 70%M	0.85
80.00	WCM 10%W 90%M	1.13

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

Herrmann Unit B #1-36

PO Box 8037
Wichita KS 67208+0037

36-25S-21W Ford,KS

Job Ticket: 65958

DST#: 1

ATTN: Larry Nicholson

Test Start: 2019.06.16 @ 08:45:00

Tool Information

Drill Pipe:	Length: 4732.00 ft	Diameter: 3.82 inches	Volume: 67.08 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
				String Weight: Initial	60000.00 lb
Drill Pipe Above KB:	25.00 ft			Final	63000.00 lb
Depth to Top Packer:	4740.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	1	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4708.00	
Shut In Tool	5.00			4713.00	
Hydraulic tool	5.00			4718.00	
Gap Sub	4.00			4722.00	
Jars	5.00			4727.00	
Safety Joint	3.00			4730.00	
Packer	5.00			4735.00	33.00 Bottom Of Top Packer
Packer	5.00			4740.00	
Stubb	1.00			4741.00	
Recorder	0.00	8934	Inside	4741.00	
Recorder	0.00	8352	Outside	4741.00	
Perforations	15.00			4756.00	
Bullnose	4.00			4760.00	20.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC
 PO Box 8037
 Wichita KS 67208+0037
 ATTN: Larry Nicholson

Herrmann Unit B #1-36
36-25S-21W Ford,KS
 Job Ticket: 65958 **DST#: 1**
 Test Start: 2019.06.16 @ 08:45:00

Mud and Cushion Information

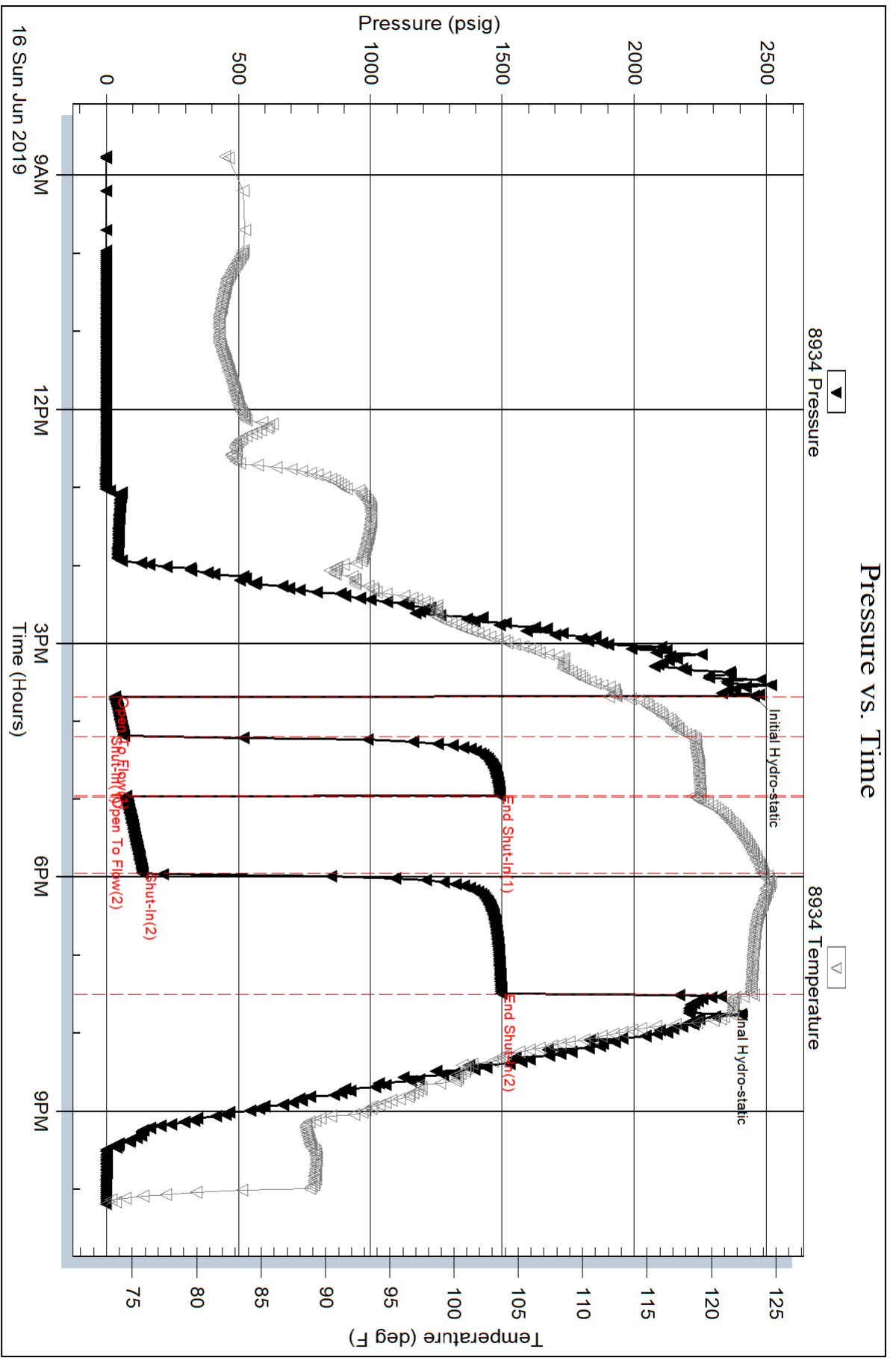
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	35000 ppm
Viscosity: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
135.00	MCW 15%M 85%W	1.914
60.00	HWCM 30%W 70%M	0.851
80.00	WCM 10%W 90%M	1.134

Total Length: 275.00 ft Total Volume: 3.899 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 1#LCM
 RW=.212@72F

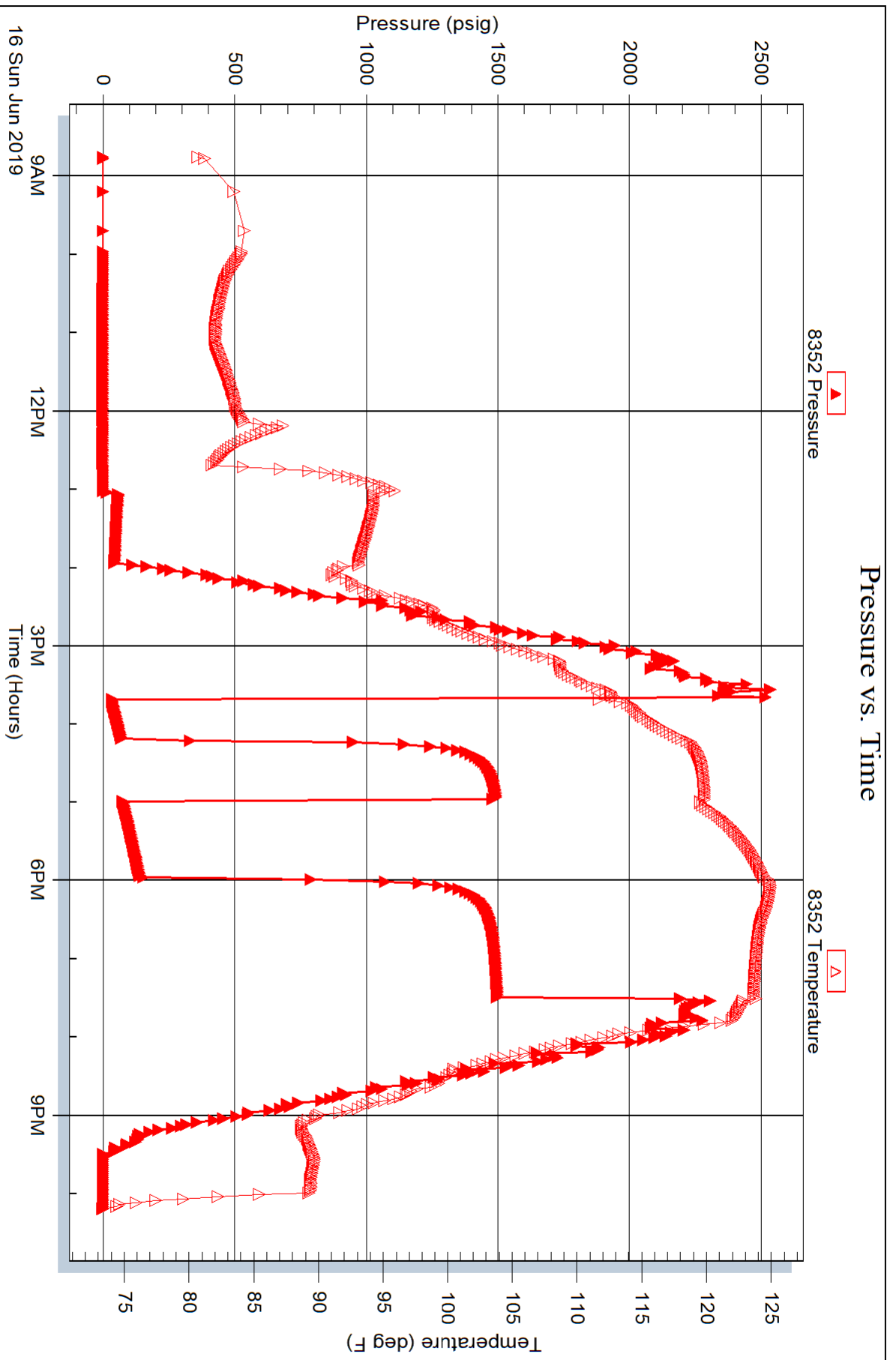


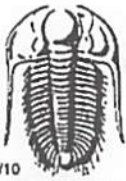
Serial #: 8352

Outside Cobalt Energy LLC

36-25S-21W Ford, KS

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65958

NO.

Well Name & No. Herrmann Unit 'B' #1-36 Test No. 1 Date 06/16/2019
 Company Cobalt Energy LLC Elevation 2269' KB 2262' GL
 Address 115 S Belmont #12 PO BOX 8037 Wichita, KS 67208+0037
 Co. Rep / Geo. Larry Nicholson Rig Pickrell #10
 Location: Sec. 36 Twp 25S Rge. 2W Co. Ford State KS

Interval Tested 4740' - 4760' Zone Tested Mississippi
 Anchor Length 20' Drill Pipe Run 4732' Mud Wt. 9.2
 Top Packer Depth 4735' Drill Collars Run - Vis 67
 Bottom Packer Depth 4740' Wt. Pipe Run - WL 11.2
 Total Depth 4760' Chlorides 9200 ppm System LCM 1#

Blow Description 27- Fair; Built to 5"
38- No Return
47- Fair; Built to 7"
75- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>135'</u>	<u>MCW</u>		<u>85</u>	<u>15</u>	
<u>60'</u>	<u>2WCM</u>		<u>30</u>	<u>70</u>	
<u>80'</u>	<u>WCM</u>		<u>10</u>	<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 275 BHT 123° Gravity - API RW 212 @ 72 °F Chlorides 35000 ppm

(A) Initial Hydrostatic 2451 Test 1300 T-On Location 08:05
 (B) First Initial Flow 32 Jars 250 T-Started 08:45
 (C) First Final Flow 66 Safety Joint 75 T-Open 15:40
 (D) Initial Shut-In 1491 Circ Sub T-Pulled 19:25
 (E) Second Initial Flow 71 Hourly Standby X4 2h 200 T-Out 20:09
 (F) Second Final Flow 137 Mileage 16827 122 Comments _____
 (G) Final Shut-In 1495 Sampler _____
 (H) Final Hydrostatic 2328 Straddle _____ EM Tool 350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Extra Recorder _____
 Initial Shut-In 45 Day Standby _____
 Final Flow 60 Accessibility _____
 Final Shut-In 90 Sub Total 0
 Sub Total 2197 Total 2197
 MP/DST Disc't _____

Approved By _____ Our Representative Spencer J. Fernald Thanks!
 Trilobite Testing Inc. shall not be liable for damaged or 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.

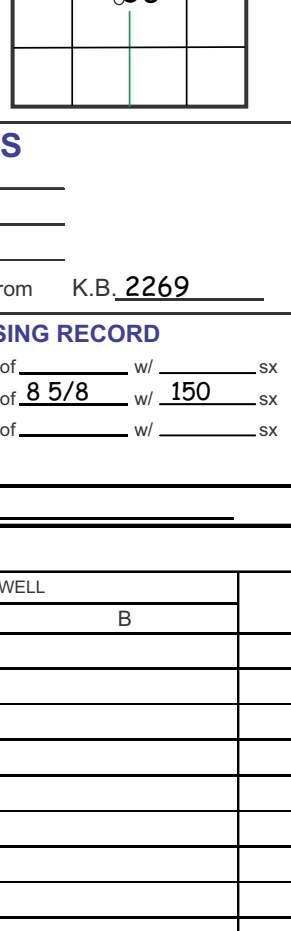
785-259-0056

GEOLOGICAL REPORT FINAL

Larry A. Nicholson

NAD 83
37.83098818
99.58067454

COMPANY Cobalt Energy LLC		FIELD Wells West
API # 15-057-2013	LEASE Herrman Unit 'B' #1-36	
LOCATION SE NE NE SW	WELL # #1-36	
SURVEY 1944' FSL 2377' FWL	SECTION 36 TWP 25S RGE 21W	
COUNTY Ford	STATE Kansas	
CONTRACTOR Pickrel Drilling Rig # 10		
SPUD 06-06-19 7:30 pm	COMP. 06-06-19 7:30 pm	ELEVATIONS
RTD 4829 3:15am 06-17-19	LTD 4832	K.B. 2269
MUD UP AT 3557-3580		D.F. _____
MUD TYPE Chemical MudCo		G.L. 2262
All measurements from K.B. 2269		
SAMPLES SAVED FROM 3800 TO RTD		
DRILLING TIME FROM 3800 TO RTD		
GEOLOGICAL SUPERVISION FROM 3800 TO RTD		
WELL SITE GEOLOGIST LARRY A. NICHOLSON		



ELECTRICAL SURVEYS : Pioneer: Neu-Den, Dual, Micro(not run)

FORMATION		SAMPLE TOPS	SURSEA DATUM	ELEC LOG TOPS	SURSEA DATUM	REFERENCE WELL
				A		B
Anhydrite		1320	+949	1320	+949	
Hebner		3992	-1723	3992	-1723	
Toronto		4013	-1744	4013	-1744	
Brown Lime		4101	-1832	4102	-1833	
Stark		4389	-2100	4366	-2087	
Huehuckney		4418	-2149	4418	-2149	
Cherokee Sh		4644	-2375	4646	-2377	
Cherokee Lm		4659	-2390	4659	-2390	
Mississippian		4746	-2477	4742	-2473	
Miss Dolo O		4756	-2487	4756	-2487	
RTD		4829	-2560	4829	-2560	
LTD		4832	-2563	4832	-2563	

LAN 792; Modified 5/05; 1/11; 4/1; 4/18 1inch=25.4mm 8.5 x 97.5 216 mm x 2460 mm

DRILLSTEM TEST SUMMARY:

Well #1 4740-780 (Miss) 30.45 60.90 IF: 32.66 FF: 1.137 SF: 1491-1495
Rec Total Fluid 275' 80 MCW (10W 90M) 60 HWCM(30W 70M)
130 MCW(85W 15M) IF Built 5" or FF built 7" or

REMARKS & RECOMMENDATIONS:

Due to lack of reservoir in the Cherokee and Stark to low development of the Miss Dolo the well was P&A

06-06-2019 - 07:30 PM Spud
06-07-2019 - 7:00 AM WOC
06-08-2019 - 7:00 AM Drig @ 999'
06-09-2019 - 7:00 AM Drig @ 1,125'
06-10-2019 - 7:00 AM Drig @ 1,255'
06-11-2019 - 7:00 AM Drig @ 1,385'
06-12-2019 - 7:00 AM Drig @ 1,425'
06-13-2019 - 7:00 AM Drig @ 1,462.4'
06-16-2019 - 7:00 AM Short Trip @ 1,760'
06-17-2019 - 03:15 AM RTD @ 4,829' 10 stand short trip
06-18-2019 - 9:00 AM Rig up Pioneer LTD @ 4,832'
06-19-2019 - 11:30 AM Rig Down Loggers P&A

50x @ 1390
50x @ 690
50x @ 250
20x @ 60
30 x3 rathole
60-40 Pozzonia 45/gal
1/4# Flossel
Basico Energy

Mud Check 5 at 4,747'
vis: 47 wt: 8.7 Chlor: 8.300
LCM: 1# Ph: 11.0 WL: 8.4

Mud Check 6 at 4,125'
vis: 67 wt: 9.2 Chlor: 8.300
LCM: 1# Ph: 10.5 WL: 8.8

Mud Check 7 at 4,400'
vis: 67 wt: 9.2 Chlor: 8.300
LCM: 1# Ph: 11.0 WL: 8.6

Mud Check 8 at 4,624'
vis: 67 wt: 9.2 Chlor: 8.300
LCM: 1# Ph: 10.5 WL: 10.8

Mud Check 9 at 4,760 (9:25am)
vis: 56 wt: 9.0 Chlor: 8.300
LCM: 1# Ph: 10.5 WL: 8.2

Mud Check 10 at 4,829'
vis: 50 wt: 9.0 Chlor: 8.100
LCM: 1# Ph: 11.0 WL: 8.4

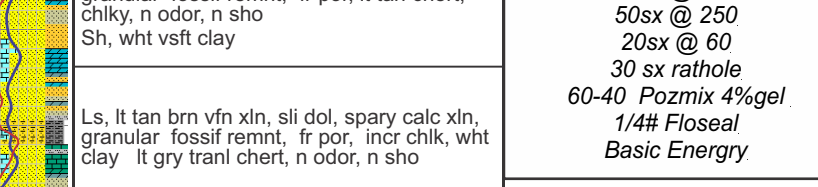
Total Strap **4638.03**
Total Board **4638.58**
Strap Short **0.55 ft**

DST (1) 4740-4760
Miss
30-45-60-90
IF: Blow built to 5 in
IS: nr
FF: Blow built to 7 in
FS: nr

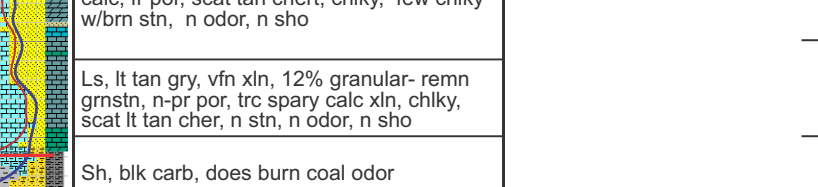
Total Rec: 275'
80' MCW (10W 90M)
60' HWCM (30W 70M)
135' MCW (85W 15M)

FP: 32-66 FFP: 71-137
SP: 1491 FSP: 1495
HP: 2451 BHT: 2328

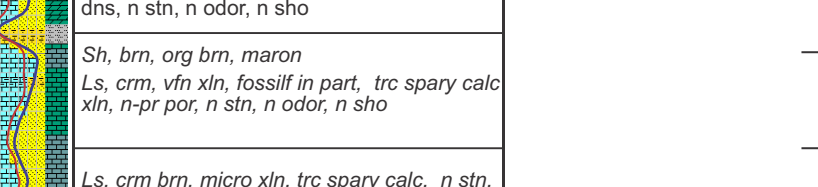
Rw: 212 @ 72' F
Chlorides 35,000 ppm



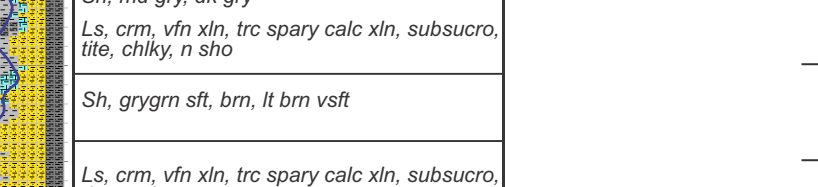
LEGEND



DEPTH



APERTURE



SAMPLE DESCRIPTIONS

Spud 07:30 PM 06-06-2019
RTD 03:15 PM 06-17-2019

"BIT RECORD"
Surf. Bit JZ: 2 1/4 HARP
(3-15), surf. 211'
Bit No. 2: 2E 1420C 7.78"
(1-16.2-14), ser 1806168 In at
211' od 4624'
Bit No. 3: Smith PR 3449 Rr 7-78"
(2-16-1-15), ser ER8446 In 4624'
od 4629'

"VERTICAL SURVEYS"
0' @ 211' 1/4 @ 4760'
3/4 @ 4125' @
1 1/2 @ 4625'

"PUMP DATA"
Emasco D-375
Stroke 14", Liner 6"
60 Strokes
345 GAL/Min

"DAILY REPORT"
06-06-2019 - 07:30 PM
Spud
Drig to 12 1/4' to 211'

Set new 5 ft 23# 8-5/8"
set @ 311'
150 sx common
3% CC, 2% Gel
did circ
OES

Plug down 04:00 am 06-07-19

06-07-2019 - 7:00 AM
WOC

06-08-2019 - 7:00 AM
Drig @ 999'

06-09-2019 - 7:00 AM
Drig @ 1,125'

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Drig @ 1,425'

06-13-2019 - 7:00 AM
Drig @ 1,462.4'

06-16-2019 - 7:00 AM
Short Trip @ 1,760'

06-17-2019 - 03:15 AM
RTD @ 4,829'
10 stand short trip

06-18-2019 - 9:00 AM
Rig up Pioneer
LTD @ 4,832'

06-19-2019 - 11:30 AM
Rig Down Loggers
P&A

50x @ 1390
50x @ 690
50x @ 250
20x @ 60
30 x3 rathole
60-40 Pozzonia 45/gal
1/4# Flossel
Basico Energy

Mud Check 5 at 4,747'
vis: 47 wt: 8.7 Chlor: 8.300
LCM: 1# Ph: 11.0 WL: 8.4

Mud Check 6 at 4,125'
vis: 67 wt: 9.2 Chlor: 8.300
LCM: 1# Ph: 10.5 WL: 8.8

Mud Check 7 at 4,400'
vis: 67 wt: 9.2 Chlor: 8.300
LCM: 1# Ph: 11.0 WL: 8.6

Mud Check 8 at 4,624'
vis: 67 wt: 9.2 Chlor: 8.300
LCM: 1# Ph: 10.5 WL: 10.8

Mud Check 9 at 4,760 (9:25am)
vis: 56 wt: 9.0 Chlor: 8.300
LCM: 1# Ph: 10.5 WL: 8.2

Mud Check 10 at 4,829'
vis: 50 wt: 9.0 Chlor: 8.100
LCM: 1# Ph: 11.0 WL: 8.4

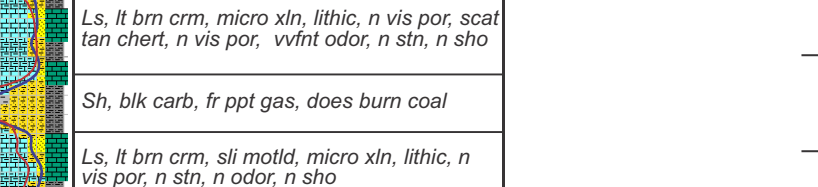
Total Strap **4638.03**
Total Board **4638.58**
Strap Short **0.55 ft**

DST (1) 4740-4760
Miss
30-45-60-90
IF: Blow built to 5 in
IS: nr
FF: Blow built to 7 in
FS: nr

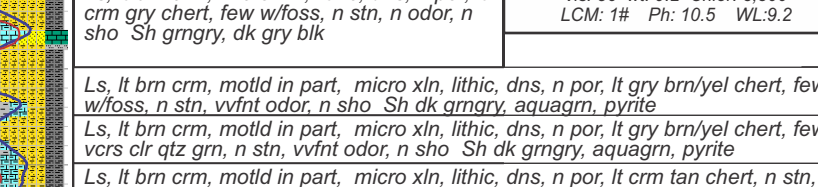
Total Rec: 275'
80' MCW (10W 90M)
60' HWCM (30W 70M)
135' MCW (85W 15M)

FP: 32-66 FFP: 71-137
SP: 1491 FSP: 1495
HP: 2451 BHT: 2328

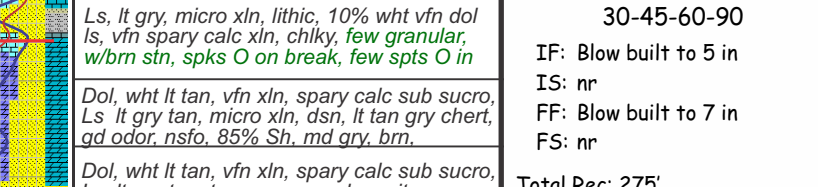
Rw: 212 @ 72' F
Chlorides 35,000 ppm



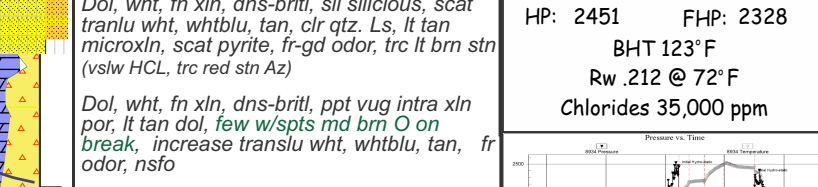
LEGEND



DEPTH



APERTURE



SAMPLE DESCRIPTIONS

Spud 07:30 PM 06-06-2019
RTD 03:15 PM 06-17-2019

"BIT RECORD"
Surf. Bit JZ: 2 1/4 HARP
(3-15), surf. 211'
Bit No. 2: 2E 1420C 7.78"
(1-16.2-14), ser 1806168 In at
211' od 4624'
Bit No. 3: Smith PR 3449 Rr 7-78"
(2-16-1-15), ser ER8446 In 4624'
od 4629'

"VERTICAL SURVEYS"
0' @ 211' 1/4 @ 4760'
3/4 @ 4125' @
1 1/2 @ 4625'

"PUMP DATA"
Emasco D-375
Stroke 14", Liner 6"
60 Strokes
345 GAL/Min

"DAILY REPORT"
06-06-2019 - 07:30 PM
Spud
Drig to 12 1/4' to 211'

Set new 5 ft 23# 8-5/8"
set @ 311'
150 sx common
3% CC, 2% Gel
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OES

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LCM: 1# Ph: 11.0 WL: 8.6

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LCM: 1# Ph: 10.5 WL: 8.2

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