



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1197715
OIL & GAS CONSERVATION DIVISION

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1197715

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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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				

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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	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)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

ALLIED OIL & GAS SERVICES, LLC 062878

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Grantland

DATE <u>3-20-14</u>	SEC <u>33</u>	TWP <u>9</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION <u>12pm</u>	JOB START <u>1:30pm</u>	JOB FINISH <u>2:50pm</u>
LEASE <u>Pinnick A</u>	WELL # <u>1-33</u>	LOCATION <u>St Peter N to HPd - Eto rd 190</u>			COUNTY <u>Grubbs</u>	STATE <u>TX</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>1/2 South - West Eto</u>				

CONTRACTOR Southwind S

TYPE OF JOB Rotary PWT

HOLE SIZE 7 7/8" T.D.

CASING SIZE _____ DEPTH _____

TUBING SIZE 4 1/2" DEPTH 1050

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. All

PERFS. _____

DISPLACEMENT Prochem

OWNER _____

CEMENT AMOUNT ORDERED 730 60/10 440/10 140/10

EQUIPMENT

PUMP TRUCK CEMENTER Josh Weiss

366 HELPER Ben Nunnell

BULK TRUCK _____

616-170 DRIVER Jose Ellis

BULK TRUCK _____

_____ DRIVER _____

COMMON	<u>138</u>	@ <u>17.90</u>	<u>2,470.20</u>
POZMIX	<u>92</u>	@ <u>9.35</u>	<u>860.20</u>
GEL	<u>8</u>	@ <u>23.40</u>	<u>187.20</u>
CHLORIDE		@ _____	
ASC		@ _____	
<u>Alcoval</u>	<u>58</u>	@ <u>2.97</u>	<u>172.26</u>
		@ _____	
		@ _____	
		@ _____	
		@ _____	
		@ _____	
		@ _____	
		@ _____	
HANDLING	<u>247.19</u>	@ <u>2.48</u>	<u>613.03</u>
MILEAGE	<u>10.31 x 55 x</u>	<u>2.60</u>	<u>1,474.30</u>
TOTAL			<u>5,777.22</u>

REMARKS:

Drill location - Rig up - had drilling operation

Run 4 1/2" drill pipe - 50 ft. in. 1/2" mud

#1 - 1050 - 100 lbs

#2 - 220 - 75 lbs

#3 - 40 - 100 lbs

PH - 30 lbs

mhl - 15 lbs

plugdown - Plug down

CHARGE TO: Colbert Energy

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>1050</u>		
PUMP TRUCK CHARGE	<u>2249.84</u>		
EXTRA FOOTAGE		@ _____	
MILEAGE	<u>Hum 55</u>	@ <u>7.70</u>	<u>423.50</u>
MANIFOLD		@ _____	
	<u>Hum 55</u>	@ <u>4.40</u>	<u>242.00</u>
		@ _____	

TOTAL 2,915.34

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.

PRINTED NAME X Gabriel W. Laeman

SIGNATURE X Gabriel W. Laeman

Thank you!!

SALES TAX (If Any) _____

TOTAL CHARGES 8,692.56

DISCOUNT 1,738.51

TOTAL 6,954.05

IF PAID IN 30 DAYS

ALLIED OIL & GAS SERVICES, LLC 062514

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley, KS

DATE <u>3-13-14</u>	SEC. <u>33</u>	TWP. <u>9</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION <u>✓</u>	JOB START <u>7:30am</u>	JOB FINISH <u>6:15pm</u>
LEASE <u>Minnick</u>	WELL# <u>1-33</u>	LOCATION <u>St. Peter, 3rd, SE, YAS,</u>		COUNTY <u>St. Lawrence</u>	STATE <u>KS</u>		
OLD <input checked="" type="radio"/> NEW (Circle one)				<u>Winds</u>			

CONTRACTOR <u>Southwind</u>	OWNER <u>same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>2301</u>
CASING SIZE <u>8 7/8</u>	DEPTH <u>280.141</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>13-77 bbl</u>	

CEMENT AMOUNT ORDERED 175 sks con 3200
2% gel

EQUIPMENT

PUMP TRUCK # <u>431</u>	CEMENTER <u>Lakem Gwente</u>
BULK TRUCK # <u>341</u>	HELPER <u>Andrew Forslund</u>
BULK TRUCK #	DRIVER <u>Alex Ochame (TW)</u>
BULK TRUCK #	DRIVER

COMMON	<u>175 sk @ 17.90</u>	<u>3132.50</u>
POZMIX	@	
GEL	<u>3 sk @ 23.40</u>	<u>70.20</u>
CHLORIDE	<u>6 sk @ 64.00</u>	<u>384.00</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	<u>189.23 sk @ 2.98</u>	<u>469.29</u>
MILEAGE	<u>8.6 hr x 60 x 2.60</u>	<u>1347.84</u>
		TOTAL <u>5443.83</u>

REMARKS:
Mix 175 sks cement
Displace with water
Cement did circulate

SERVICE

DEPTH OF JOB	<u>230.141</u>	
PUMP TRUCK CHARGE		<u>1512.25</u>
EXTRA FOOTAGE	@	
MILEAGE <u>MTH</u>	<u>60 @ 7.70</u>	<u>462.00</u>
MANIFOLD <u>FLU</u>	<u>60 @ 4.90</u>	<u>269.00</u>
	@	
		TOTAL <u>2238.25</u>

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.

PRINTED NAME Darrell Yatt

SIGNATURE [Signature]

SALES TAX (if Any) _____

TOTAL CHARGES 7,642.08

DISCOUNT 1,508.41 IF PAID IN 30 DAYS

6,113.66 Net.



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

115 S Belmont #12
Wichita, KS 67208

ATTN: Frank Mize

Pinnick "A" #1-33

33-9S-24W Graham, KS

Start Date: 2014.03.17 @ 20:13:22

End Date: 2014.03.18 @ 05:29:41

Job Ticket #: 57504 DST #: 1

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

Printed: 2014.03.21 @ 16:27:19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy, LLC

33-9S-24W Graham, KS

115 S Belmont #12
Wichita, KS 67208

Pinnick "A" #1-33

Job Ticket: 57504

DST#: 1

ATTN: Frank Mize

Test Start: 2014.03.17 @ 20:13:22

GENERAL INFORMATION:

Formation: **LKC "C&D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:52:32

Time Test Ended: 05:29:41

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang/Phillip Ga

Unit No: 49

Interval: 3876.00 ft (KB) To 3916.00 ft (KB) (TVD)

Reference Elevations: 2519.00 ft (KB)

Total Depth: 3916.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8898 Outside

Press@RunDepth: 56.77 psig @ 3880.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.17

End Date:

2014.03.18

Last Calib.:

2014.03.18

Start Time: 20:13:23

End Time:

05:29:41

Time On Btm:

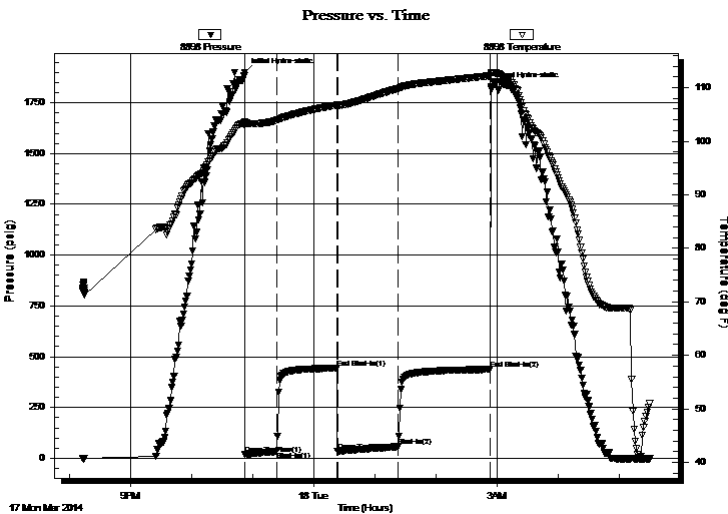
2014.03.17 @ 22:52:22

Time Off Btm:

2014.03.18 @ 02:54:01

TEST COMMENT: 30-IF-Built to 3"
60-IS-No Return
60-FF-Built to 3 1/2"
90-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1899.47	103.69	Initial Hydro-static
1	17.96	102.87	Open To Flow (1)
32	34.63	103.92	Shut-In(1)
91	443.67	106.76	End Shut-In(1)
91	34.74	106.64	Open To Flow (2)
151	56.77	109.81	Shut-In(2)
241	437.56	112.21	End Shut-In(2)
242	1829.61	112.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 50%w, 50%w	0.84
30.00	WM 30%w, 70%w, w ith oil spots	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy, LLC

33-9S-24W Graham, KS

115 S Belmont #12
Wichita, KS 67208

Pinnick "A" #1-33

Job Ticket: 57504

DST#: 1

ATTN: Frank Mize

Test Start: 2014.03.17 @ 20:13:22

Tool Information

Drill Pipe:	Length: 3857.00 ft	Diameter: 3.80 inches	Volume: 54.10 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 54.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3876.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3854.00	
Hydraulic tool	5.00			3859.00	
Jars	5.00			3864.00	
Safety Joint	2.00			3866.00	
Packer	5.00			3871.00	27.00 Bottom Of Top Packer
Packer	5.00			3876.00	
Stubb	1.00			3877.00	
Perforations	3.00			3880.00	
Recorder	0.00	8897	Inside	3880.00	
Recorder	0.00	8898	Outside	3880.00	
Change Over Sub	1.00			3881.00	
Drill Pipe	31.00			3912.00	
Change Over Sub	1.00			3913.00	
Bullnose	3.00			3916.00	40.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

33-9S-24W Graham, KS

115 S Belmont #12
Wichita, KS 67208

Pinnick "A" #1-33

Job Ticket: 57504

DST#: 1

ATTN: Frank Mize

Test Start: 2014.03.17 @ 20:13:22

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:

19500 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MW 50% _m , 50% _w	0.842
30.00	WM 30% _w , 70% _m , with oil spots	0.421

Total Length: 90.00 ft Total Volume: 1.263 bbl

Num Fluid Samples: 0

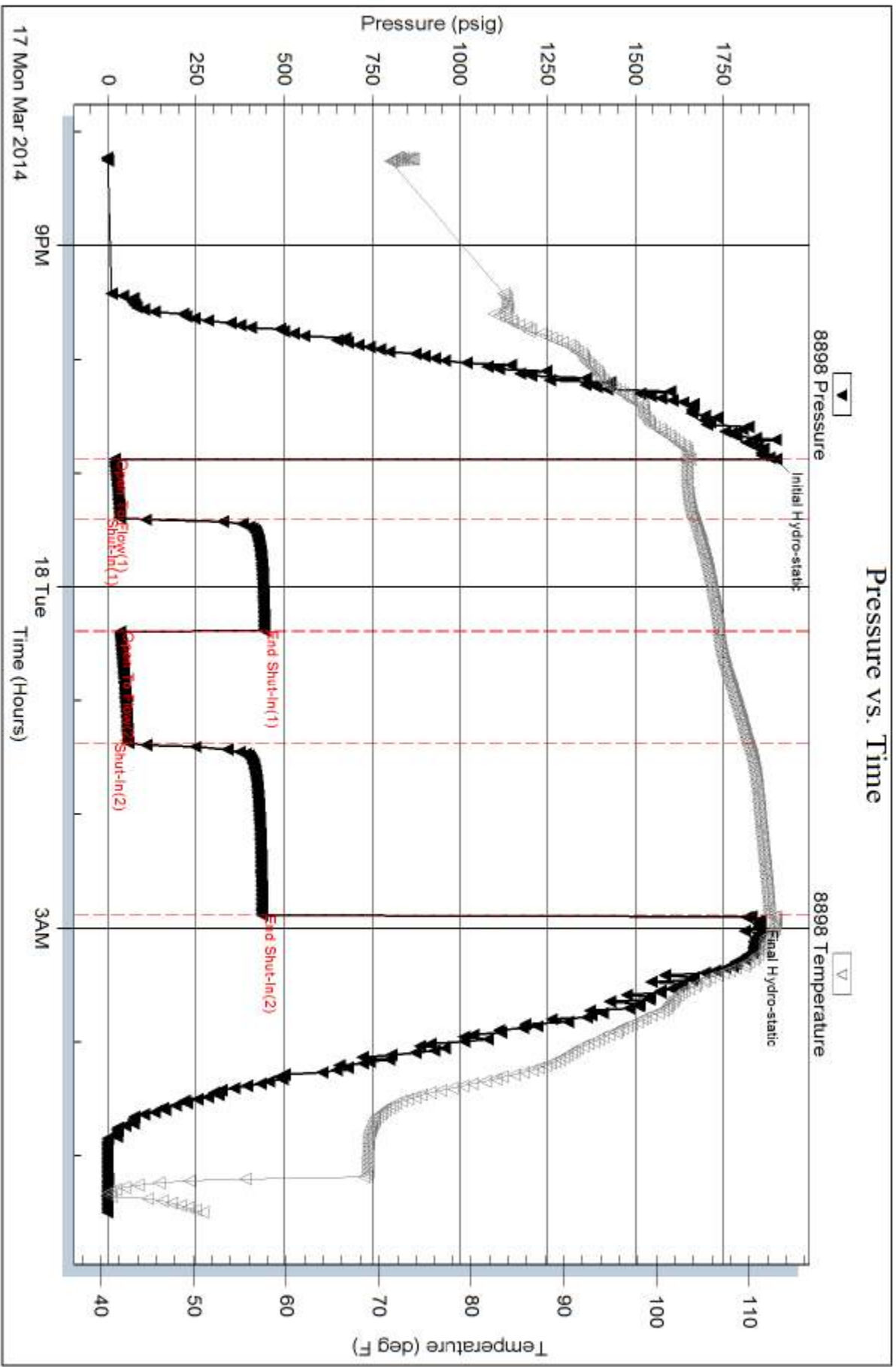
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Salinity : .675 at 37 degrees = 19,500



Serial #: 8897

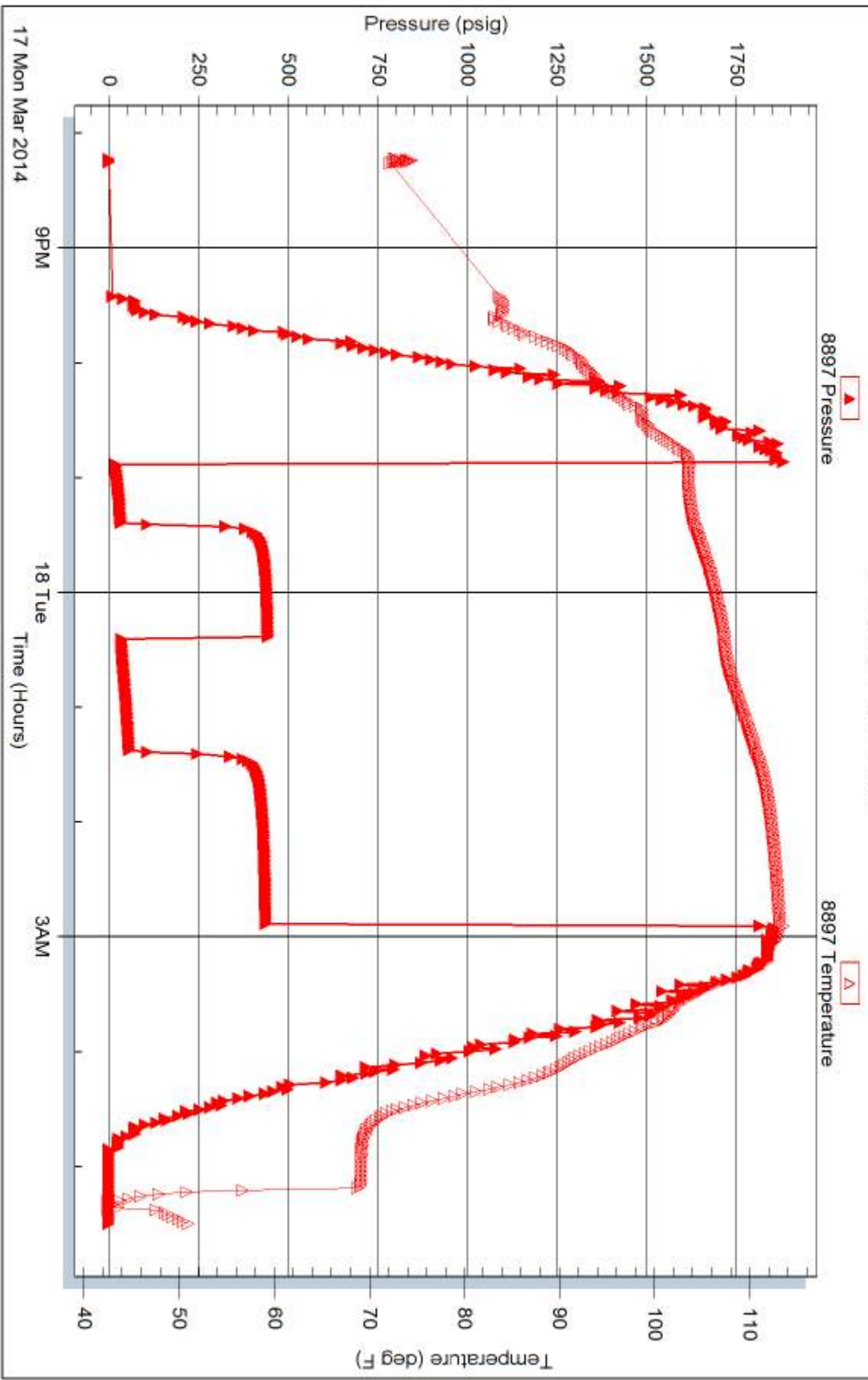
Inside

Cobalt Energy, LLC

Pinnick "A" #1-33

DST Test Number: 1

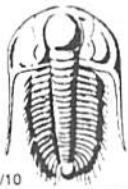
Pressure vs. Time



Tribble Testing, Inc

Ref. No: 57504

Printed: 2014.03.21 @ 16:27:22



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57504

Well Name & No. Pinnick "A" #1-33 Test No. 1 Date 3-17-14
 Company Cobalt Energy, LLC Elevation 2519 KB 2510 GL
 Address 115 S Belmont #12 Wichita, KS 67208
 Co. Rep / Geo. Frank Minze Rig Southwind Rig 8
 Location: Sec. 33 Twp. 9S Rge. 24W Co. Graham State KS

Interval Tested 3876-3916 Zone Tested LKC "C+D"
 Anchor Length 40 Drill Pipe Run 3857 Mud Wt. 9.0
 Top Packer Depth 3871 Drill Collars Run 0 Vis 46
 Bottom Packer Depth 3876 Wt. Pipe Run 0 WL 7.2
 Total Depth 3916 Chlorides 1,800 ppm System LCM 1
 Blow Description IF - Built to 3"
DS - No Return
FF - Built to 3 1/2"
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>MW</u>			<u>50</u>	<u>50</u>
<u>30</u>	<u>MW with oil spots</u>			<u>30</u>	<u>70</u>

Rec Total 90 BHT 113 Gravity — API RW 1675 @ 37 °F Chlorides 14,500 ppm

(A) Initial Hydrostatic 1899 Test 1150 T-On Location 18:10
 (B) First Initial Flow 17 Jars 250 T-Started 20:13
 (C) First Final Flow 34 Safety Joint 75 T-Open 22:52
 (D) Initial Shut-In 443 Circ Sub _____ T-Pulled 02:52
 (E) Second Initial Flow 34 Hourly Standby _____ T-Out 05:29
 (F) Second Final Flow 56 Mileage 116 RT 359.60 Comments _____
 (G) Final Shut-In 437 Sampler _____ loaded tools 3/18 18:30
 (H) Final Hydrostatic 1829 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Sub Total 1834.60 Sub Total 1834.60
 Total 1834.60
 MP/DST Disc't _____

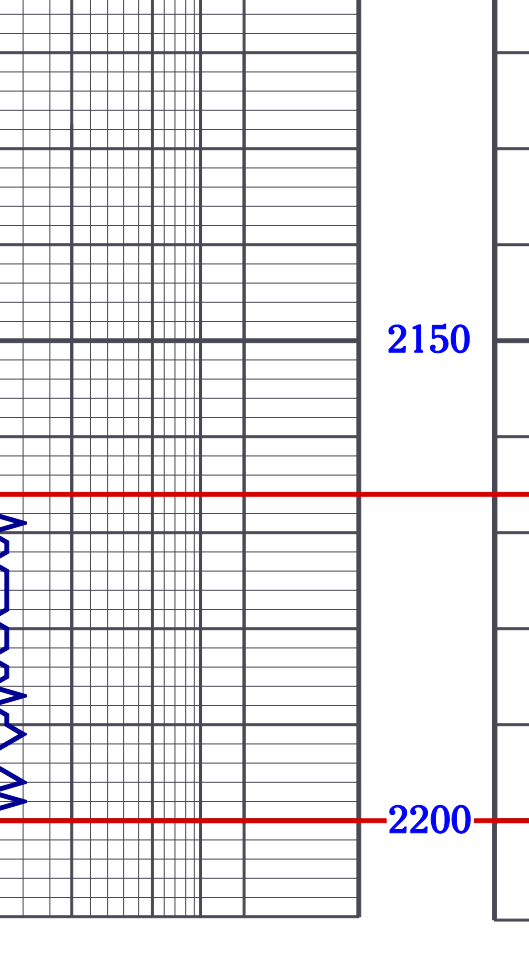
Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion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

COMPANY: Cobalt Energy, LLC
LEASE: Pinnick "A" #1-33
FIELD: Wildcat
LOCATION: 2,219' FSL & 454' FEL
SEC: 33 TWPSP 9S RGE 24W
COUNTY: Graham STATE: Kansas

CONTRACTOR: Southwind Drilling Rig #8
SPUD: 3-12-14 COMP: 3-20-14
SAMPLES SAVED FROM: 3700 TO 3916

ELEVATION: K/B: 2519
D.F.:
G.L.: 2510
DEPTH MEASURED FROM: 8
Log: Drilling ✓
Surface: 8 5/8" @ 230'
Production: 8 5/8" @ 230'

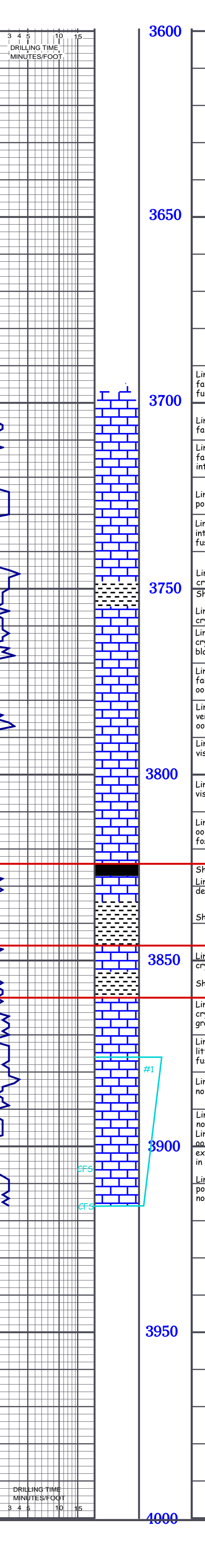
FORMATION	SAMPLE	E LOG	DATUM	A. ELOG	B. ELOG	C. ELOG
Anhydrite	2166		+353	+335	+358	+361
Base Anhydrite	2200		+319	+300	+324	+324
Heebner	3824		-1305	-1309	-1295	-1301
Toronto	3846		-1327	-1332	-1316	-1324
Lansing	3860		-1341	-1346	-1328	-1348
Marine Creek				-1472	-1449	-1488
Stark				-1537	-1516	-1527
Mudshackney				-1556	-1536	-1547
DSC				-1572	-1556	-1568
RTD	3916		-1597		-1498	-1571



SHALE
SANDSTONE
LIMESTONE
DOLOMITE
HALITE
ANHYDRITE/GYPSUM

Anhydrite 2166 +353

Base Anhydrite 2200 +319



3600

3650

3700 Limestone: off white to gray, medium crystalline, fair intercrystalline porosity, no show, fossiliferous w/ fusulinids
Limestone: off white to gray, medium crystalline, fair to good intercrystalline porosity, no show
Limestone: off white to gray, medium crystalline, fair to good intercrystalline porosity, some interoolitic porosity, no show
Limestone: beige to gray, mudstone, little visible porosity, no show
Limestone: beige to gray, medium crystalline, fair intercrystalline porosity, no show, fossiliferous with fusulinids.

3750 Limestone: off white to gray, medium to coarsely crystalline, little visible porosity, no show
Shale: green to gray
Limestone: off white to gray, medium to coarsely crystalline, little visible porosity, no show
Limestone: off white to gray, medium to coarsely crystalline, little visible porosity, no show, trace black shale
Limestone: gray to beige, medium to coarsely crystalline, fair intercrystalline porosity, trace oolitic w/poor interoolitic porosity, no show
Limestone: gray to beige, medium to coarsely crystalline, very poor intercrystalline porosity, trace oolitic w/poor interoolitic porosity, no show
Limestone: beige to gray, coarsely crystalline, no visible porosity, no show

3800 Limestone: off white to gray, coarsely crystalline, little visible porosity, no show
Limestone: off white to gray, coarsely crystalline, some oolitic w/poor interoolitic porosity, no show, trace chert, fossiliferous w/fusulinids

3850 Shale: black, carbonaceous
Limestone: beige to light brown, coarsely crystalline, dense, no porosity, no show
Shale: vari-colored

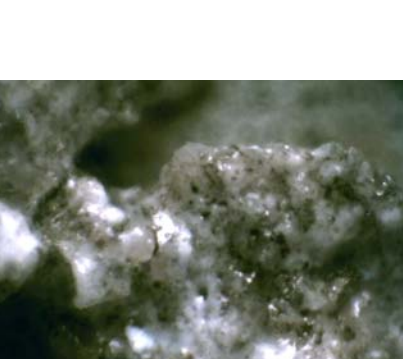
3900 Limestone: off white to gray, medium to coarsely crystalline, little visible porosity, no show
Shale: gray to dark gray
Limestone: off white to gray, medium to coarsely crystalline, trace pinpoint porosity, no show, trace gray chert
Limestone: off white to gray, coarsely crystalline, dense, little visible porosity, no show, fossiliferous with fusulinids, fair amount chert
Limestone: gray, coarsely crystalline, dense, no porosity, no show, trace red to gray shale
Limestone: off white to gray, medium crystalline, some oolitic, fair intercrystalline porosity, slight show free oil, extremely faint odor, no fluorescence, fair amount oolitic in 60" sample that appears barren.
Limestone: off white to gray, medium crystalline, very poor intercrystalline porosity, slight show free oil, no odor, no fluorescence, trace oolitic, oolitic

3950


4000

While tripping pipe back in the hole after DST #1, the bit came loose from the drill pipe and lodged near 1000'.
Tried to fish/mill the bit for the next 36 hours resulted in lowering the bit in the hole approximately 70'. Originally, the bit was sideways in the hole. No idea of its final orientation. At 9:00 PM on March 19, the drilling contractor could no longer move the bit, and it was decided to plug and abandon the hole and skid the rig to the north, drilling a 'twin' location.

Final Sumation:
There is a 7 7/8" bit lodged in this hole near 1070' with unknown orientation.



3910" x30

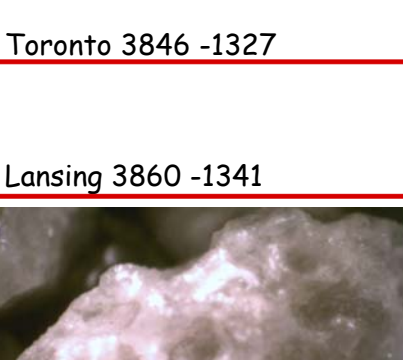


3906" 40" x30

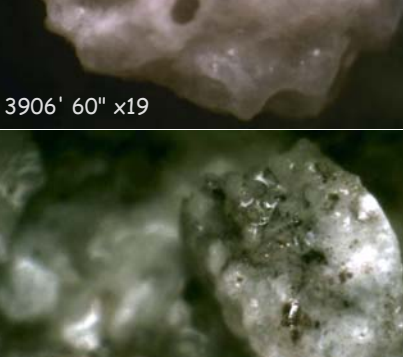
Heebner 3824 -1305

Toronto 3846 -1327


Lansing 3860 -1341



3906" 60" x19



3916" x15



3916" 60" x25

Comments:

GENERAL INFORMATION:

Formation: LKC "C&D"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:52:32
Time Test Ended: 05:29:41

Interval: 3876.00 ft (KB) To 3916.00 ft (KB) (TVD)
Total Depth: 3916.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
Tester: Tate Lang/Phillip Ga
Unit No: 49

Reference Elevations: 2519.00 ft (KB)
2510.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8898 Outside
Press@RunDepth: 56.77 psig @ 3890.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.03.17 End Date: 2014.03.18 Last Calib.: 2014.03.18
Start Time: 20:13:23 End Time: 05:29:41 Time On Btm: 2014.03.17 @ 22:52:22
Time Off Btm: 2014.03.18 @ 02:54:01

TEST COMMENT: 30-IF-Built to 3"
60-IS-No Return
60-FF-Built to 3 1/2"
90-FS-No Return

Recovery Table

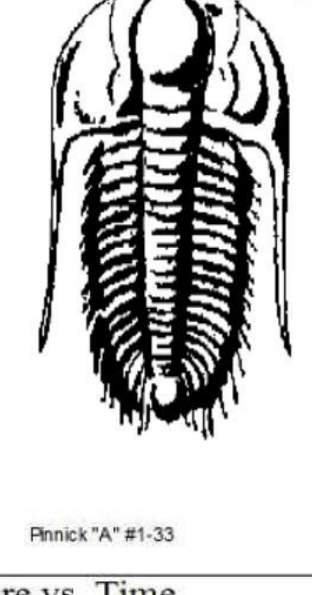
Length ft	Description	Volume bbl
60.00	MW 50%w, 50%w	0.842
30.00	WM 30%w, 70%w, with oil spots	0.421

Total Length: 90.00 ft Total Volume: 1.263 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: Salinity : .675 at 37 degrees = 19,500

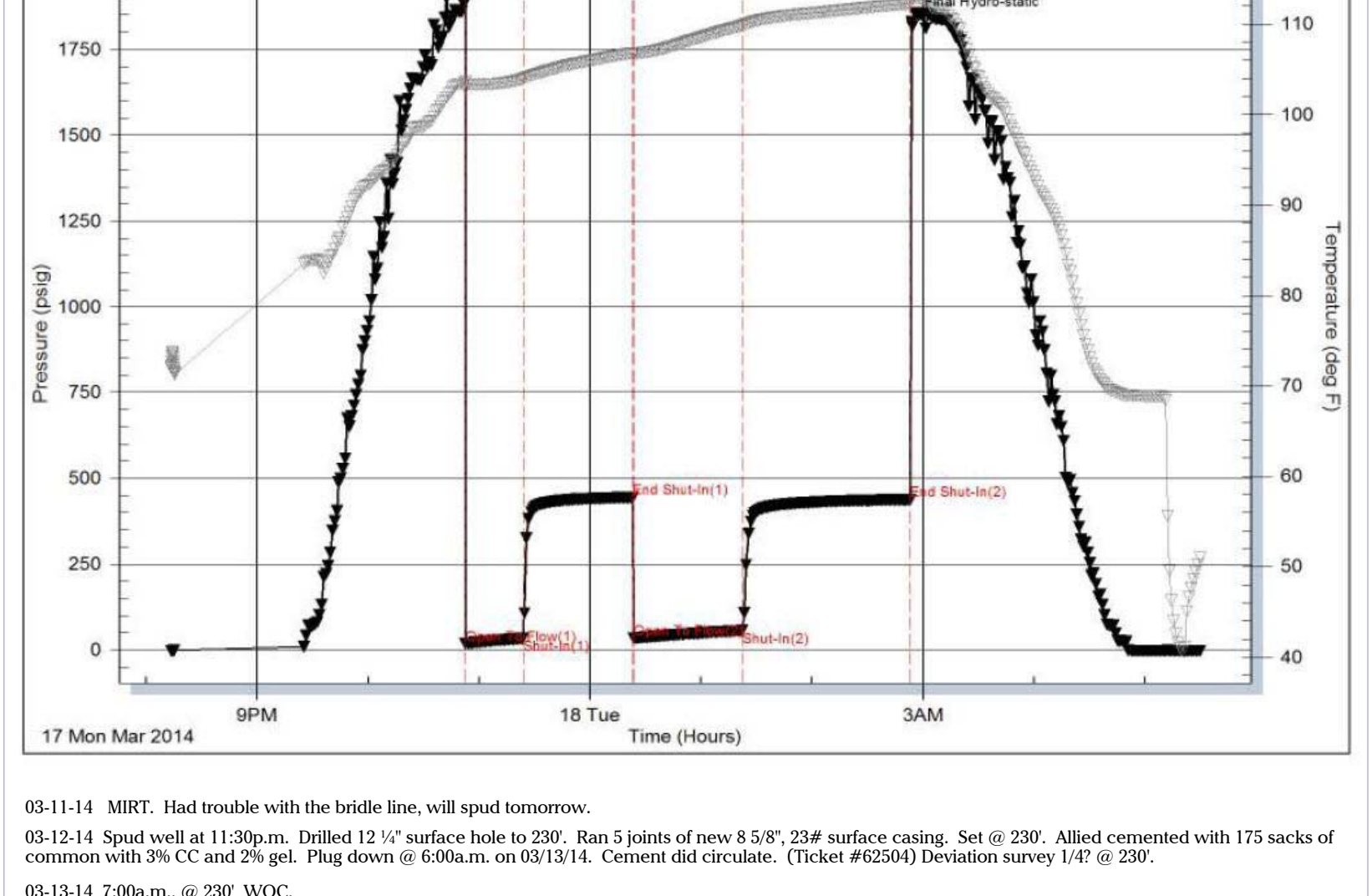
PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1899.47	103.69	Initial Hydro-static
1	17.96	102.87	Open To Flow (1)
32	34.63	103.92	Shut-In(1)
91	443.67	106.76	End Shut-In(1)
91	34.74	106.64	Open To Flow (2)
151	56.77	109.81	Shut-In(2)
241	437.56	112.21	End Shut-In(2)
242	1829.61	112.69	Final Hydro-static



TRILOBITE TESTING, INC

Serial #: 8898 Outside Cobalt Energy, LLC Pinnick "A" #1-33 DST Test Number: 1



03-11-14 MIRT. Had trouble with the bridle line, will spud tomorrow.
03-12-14 Spud well at 11:30pm. Drilled 12 1/4' surface hole to 230'. Ran 5 joints of new 8 5/8", 23# surface casing. Set @ 230'. Allied cemented with 175 sacks of common with 3% CC and 2% WOC. Plug down @ 6:00a.m. on 03/13/14. Cement did circulate. (Ticket #62504) Deviation survey 1/4' @ 230'.
03-13-14 7:00a.m., @ 230' WOC.
03-14-14 7:00a.m., @ 946'. Drilling ahead. Drillers Anhydrite: 2166-2200'.
03-15-14 7:00a.m., @ 2678'. Drilling ahead.
03-16-14 7:00a.m., @ 3122'. Drilling ahead.
03-17-14 7:00a.m., @ 3754'. Drilling ahead.
03-18-14 7:00a.m., @ 3916'. Preparing to TH following DST #1.
03-19-14 Following DST #1, the morning crew went back in the hole with the bit when they hit an obstruction somewhere around 1,000'. They could not get past it and decided to rotate on it with about 2000#. The geo noted red shavings in the samples. They decided to come out of the hole to inspect the drill bit but when they got out of the hole realized the bit had come off. They have spent the last 24 hours trying to retrieve the bit. They attempted to fish it out with a magnet but failed. They ran an impression block and discovered the bit is wedged on its side. They attempted to hook it to get it more upright to retrieve it but that also failed. The geologist told me this morning that they are going to use a milling tool and mill it out. I have spoken with the owner of Southwind Drilling and they are determined to do whatever it takes to get this resolved as quickly as they can.
03-20-14 The attempt to mill the bit and retrieve it has failed and we have decided to skid the rig 30' north and drill the Pinnick 'A' #1-33X. The bit would slide 10-20' at a time as they milled and pushed it down the hole until they got to a point where it got wedged and progress essentially stopped. The decision was made to skid around 9:00pm last evening.