



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1274337
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
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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: _____



1274337

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
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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				

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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ 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: <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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
 Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1943

Date	12-11-15	Sec.	29	Twp.	6	Range	21	County	Corraham	State	KS	On Location		Finish	11:00 A.M.
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Lease Hart + Billips Well No. 1 Location Rogue + Shore 9N Area 1W Sinto

Contractor WJW #6 Owner
 To Quality Oilwell Cementing, Inc.

Type Job Conductor You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 17 1/2 T.D. 130' Charge To Jason Oil

Csg. 13 3/8 Depth 130' Street

Tbg. Size Depth City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 15' Shoe Joint Cement Amount Ordered 120 80/20 3/1 CC 2/1 GEL

Meas Line Displace 18.3L

EQUIPMENT

Pumptrk	20	No.	Cementer	Common	95
			Helper	Poz. Mix	25
Bulktrk		No.	Driver	Gel.	3
			Driver	Calcium	4
Bulktrk	21	No.	Driver		
			Driver		

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<u>13 3/8 on bottom. Est Circulation</u>	Sand
<u>Mix 120SK + Displace</u>	Handling <u>127</u>
<u>Cement Circulator</u>	Mileage

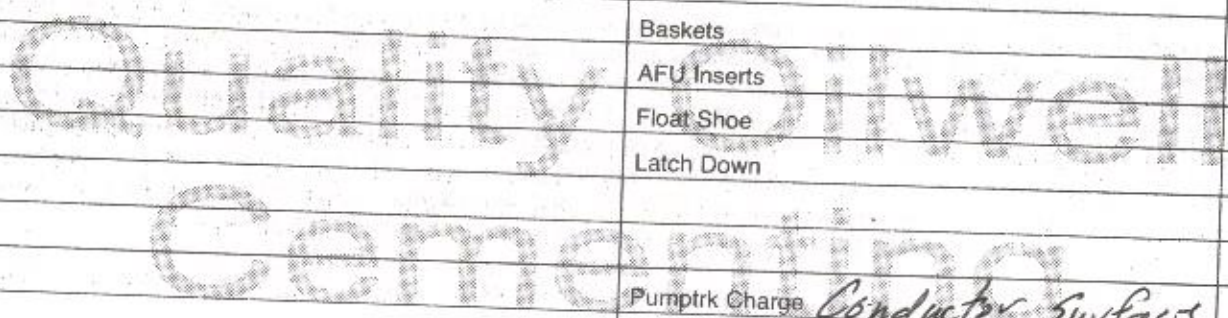
FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge Conductor Surface
 Mileage 51

Tax
 Discount
 Total Charge

X Signature



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1944

Date	12-11-13	Sec.	29	Twp.	G 6	Range	21	County	Graham	State	KS	On Location		Finish	11:45 PM
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Location *Beaver 36RD 9N AARD 1W Sinto*

Lease	<i>Hart Billips</i>		Well No.	<i>1</i>		Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Contractor	<i>Wwag</i>					Charge To	<i>Jason Oil</i>			
Type Job	<i>Surface</i>					Street				
Hole Size	<i>12 1/4</i>	T.D.	<i>472</i>			City	State			
Csg.	<i>8 5/8</i>	Depth	<i>472</i>			The above was done to satisfaction and supervision of owner agent or contractor.				
Tbg. Size		Depth				Cement Amount Ordered <i>200 @ 20 3/4 CC 2-1.65Z</i>				
Tool		Depth								
Cement Left in Csg.	<i>20'</i>	Shoe Joint								
Meas Line		Displace	<i>28 3/4 BCL</i>							

EQUIPMENT

Pumptrk	<i>20</i>	No.	Cementor	<i>raig</i>	Common	<i>200 160</i>	
			Helper	<i>nick</i>	Poz. Mix	<i>40</i>	
Bulktrk		No.	Driver	<i>nick</i>	Gel.	<i>4</i>	
Bulktrk	<i>21</i>	No.	Driver	<i>Brett</i>	Calcium	<i>8</i>	

JOB SERVICES & REMARKS

Remarks:		Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
<i>8 5/8 on bottom. Est. Circulation.</i>		Sand	
<i>Mix 200SK & Displace</i>		Handling <i>212</i>	
<i>Cement Circulated</i>		Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	<i>Surface</i>
Mileage	<i>51</i>

No pump trk mileage chg

X Signature *Mal Boze*

Tax
Discount
Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1947

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-17-15	29	6	21	Graham	KS		3:00 a.m.
Lease				Location			
Hart. Billips				Bogus 24 x 3/4" RD 9N 1W Sinto			
Contractor				Well No.		Owner	
W/W #6				1		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Type Job				Charge To			
Production String				Jason Oil			
Hole Size		T.D.		Street			
7 7/8		3863					
Csg.		Depth		City		State	
5 1/2 15.50'		3820					
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Tool		Depth		Cement Amount Ordered			
				170 80/20 10/ Salt 5/ Gelsolite			
Cement Left in Csg.		Shoe Joint		Meas Line		Displace	
30.60		30.60		400 60/40 DMDC 1/4" #10 500gal mud clear		90BL	
EQUIPMENT				Common			
Pumptrk 5 No. Cementer				376			
Helper				Poz. Mix			
Craig				194			
Bulktrk 14 No. Driver				Gel.			
Brett				7			
Bulktrk 21 No. Driver				Calcium			
Bill				9			
Driver				Hulls			
Dora				Salt			
JOB SERVICES & REMARKS				17			
Remarks:				Flowseal			
				100#			
Rat Hole				Kol-Seal			
30SK				850#			
Mouse Hole				Mud CLR 48			
				500			
Centralizers				CFL-117 or CD110 CAF 38			
				Sand meteo beads			
Baskets				700#			
D/V or Port Collar				Handling			
				612			
5 1/2 set @ 3820. Insert @ 3789.				Mileage			
Ept Circulation set shoe & Est.				FLOAT EQUIPMENT			
Circulation Pump 500gal mud clear &				Guide Shoe			
10 BL space Plug Rathole. Cement				Triplet Shoe			
5/2. Clear lines & Displace Plug.				Centralizer			
Plug land @ 2000#. Release				6 Turbo's 2 Regular			
Pressure Day.				Baskets			
Cement Did Circulate.				3			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge			
				prod string			
				Mileage			
				51			
X Signature				Tax			
Mandi Basso				Discount			
				Total Charge			

OPERATOR

Company: JASON OIL COMPANY, LLC
 Address: PO BOX 701
 RUSSELL, KANSAS
 67665

Contact Geologist: JIM SCHOENBERGER
 Contact Phone Nbr: 785-483-1071
 Well Name: HART-BILLIPS #1
 Location: SW NW SW NW S29 T6S R21W
 API: 15-065-24115-00-00
 Pool:
 State: KANSAS

Field: WILDCAT
 Country: USA

Scale 1:240 Imperial

Well Name: HART-BILLIPS #1
 Surface Location: SW NW SW NW S29 T6S R21W
 Bottom Location:
 API: 15-065-24115-00-00
 License Number: 33813
 Spud Date: 12/11/2015 Time: 8:00 AM
 Region: GRAHAM COUNTY
 Drilling Completed: 12/16/2015 Time: 10:00 AM
 Surface Coordinates: 1915 FNL & 140 FWL
 Bottom Hole Coordinates:
 Ground Elevation: 2250.00ft
 K.B. Elevation: 2255.00ft
 Logged Interval: 3150.00ft To: 3863.00ft
 Total Depth: 3863.00ft
 Formation: TOPEKA, LANSING-KANSAS CITY
 Drilling Fluid Type: CHEMICAL / FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.6942999
 Latitude: 39.5047013
 N/S Co-ord: 1915 FNL
 E/W Co-ord: 140 FWL

LOGGED BY

Company: SOLUTIONS CONSULTING, INC.
 Address: 108 WEST 35TH
 HAYS, KANSAS 67601

Phone Nbr: 785-650-4540 / 785-639-1337
 Logged By: Geologist

Name: STEVE REED

CONTRACTOR

Contractor: WW DRILLING, LLC
 Rig #: 6
 Rig Type: MUD ROTARY
 Spud Date: 12/11/2015 Time: 8:00 AM
 TD Date: 12/16/2015 Time: 10:00 AM
 Rig Release: 12/17/2015 Time: 12:00 PM

ELEVATIONS

K.B. Elevation: 2255.00ft Ground Elevation: 2250.00ft
 K.B. to Ground: 5.00ft

NOTES

BASED ON POSITIVE STRUCTURAL POSITION, RESULTS OF DST #1, AND LOG ANALYSIS THE DECISION WAS MADE TO SET 5 1/2" PRODUCTION CASING TO TEST PRODUCTIVITY OF THE HART-BILLIPS #1

OPEN HOLE LOGGING PROVIDED BY: GEMINI WIRELINE
 DUAL INDUCTION LOG, COMPENSATED NEUTRON POROSITY LOG, AND MICRORESISITIVITY LOGS
 WERE PERORMED

DRILL STEM TESTING PROVIDED BY: TRILOBITE TESTING
 ONE (1) DST WAS COMPLETED

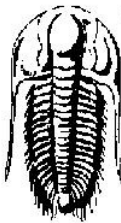
FORMATION TOPS COMPARISON AND DAILY ACTIVITY SUMMARY

	WELL NAME		COMPARISON WELL	COMPARISON WELL
	HART-BILLIPS #1		WALLACE #1	A.WORCESTER #1-B
	API: 15-065-24115		API: 15-065-30183	API: 15-065-22451
	SW NW SW NW S29 T6S R21W		SW NE NW S30 T6S R21W	NW NE NE S24 T6S R22W
	2255 KB		2293 KB	2302 KB
FORMATION	SAMPLE TOPS	LOG TOPS	LOG TOPS (DATUM)	LOG TOPS (DATUM)
ANHYDRITE TOP	1902' (+353')	1899' (+356')	+346'	+345'
ANHYD. BASE	1935' (+320')	1931' (+324')	+316'	+311'
TOPEKA	3258' (-1003')	3264' (-1009')	-1011'	-1002'
HEEBNER	3452' (-1197')	3458' (-1203')	-1215'	-1205'
TORONTO	NOT CALLED	3492' (-1237')	-1239'	-1232'
LKC	3498' (-1243')	3504' (-1249')	-1255'	-1250'
BKC	3696' (-1441')	3695' (-1440')	-1449'	-1440'
ARBUCKLE	3807' (-1552')	3813' (-1558')	-1562'	-1540'
GRANITE WASH	3828' (-1573')	3829' (-1574')	NA	NA
RTD	3863' (-1608')	3863' (-1608')	-1602'	-1556'

SUMMARY OF DAILY ACTIVITY

- 12-10-15** M.I.R.U.
- 12-11-15** spud @ 8:00pm, 13 3/8" conductor casing @ 129 w/ 150 sks 80/20, 2% gel, 3%cc, plug down @ 11:00am, woc, drill plug @ 5:45pm, drill, set 8 5/8" surface casing @ 472 w/200 sxs 80/20, 2% gel, 3%cc, plug down @ 4:45am
- 12-12-15** 472, drill plug @ 7:45am, drilling
- 12-13-15** 2484, drilling
- 12-14-15** 3421, drilling, bit trip @ 3423, CFS @ 344, CFS @ 3506, mini trip (5 stands), CTCH, TOWB for DST #1 3448-3506, survey 1/2°, Strap .08' long to board
- 12-15-15** 3521, drilling, CFS @ 3786, bit trip @ 3788, CFS @ 3810, CFS @ 3817
- 12-16-15** 3821, drilling, TD of 3863 reached @ 10:00am, lost circulation, add hulls, CTCH, TOWB for logs, survey 3/4°, logging, prepare to set 5 1/2" production casing
- 12-17-15** 3863, release rig

DST #1 SUMMARY

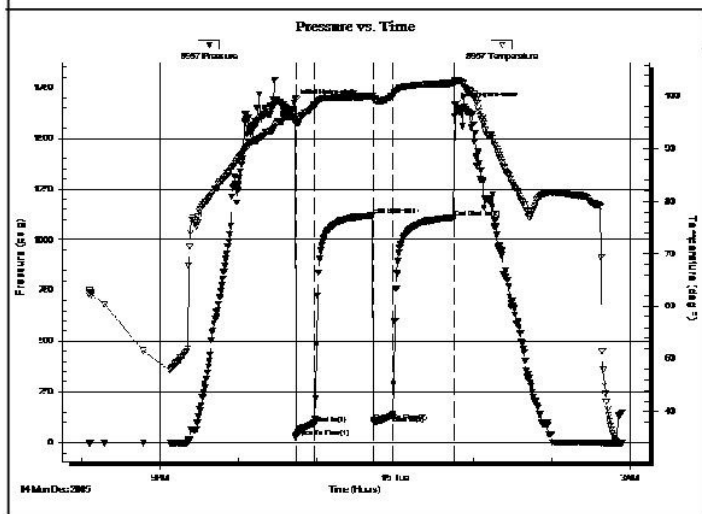
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Jason Oil CO. LLC PO Box 701 Russell KS 67665 ATTN: Steve Reed	29-6s-21w, Graham, KS Hart-Billips #1 Job Ticket: 64874 DST#:1 Test Start: 2015.12.14 @ 20:05:00

GENERAL INFORMATION:

Formation: Toronto-KC"A"	Test Type: Conventional Straddle (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Brett Dickinson
Time Tool Opened: 22:43:30	Unit No: 81
Time Test Ended: 02:54:15	
Interval: 3448.00 ft (KB) To 3506.00 ft (KB) (TVD)	Reference Elevations: 2255.00 ft (KB)
Total Depth: 3506.00 ft (KB) (TVD)	2250.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair	KB to GR/CF: 5.00 ft

Serial #: 8957	Inside				
Press@RunDepth: 132.12 psig @ 3449.00 ft (KB)	Capacity: 8000.00 psig				
Start Date: 2015.12.14	End Date: 2015.12.15	Last Calib.: 2015.12.15			
Start Time: 20:05:05	End Time: 02:54:14	Time On Btm: 2015.12.14 @ 22:42:30			
		Time Off Btm: 2015.12.15 @ 00:46:00			

TEST COMMENT: 15min IF-BOB in 7 1/2Min
 45min ISI-1in blow
 15min FF-BOB in 6min
 45min FSI-4in blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1675.83	96.13	Initial Hydro-static
1	25.73	94.76	Open To Flow (1)
16	94.56	98.29	Shut-In(1)
61	1120.93	100.04	End Shut-In(1)
61	101.84	99.70	Open To Flow (2)
76	132.12	100.11	Shut-In(2)
123	1108.98	102.49	End Shut-In(2)
124	1663.79	102.88	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
135.00	SGOCM 5%G 30%O 65%M	0.80
60.00	SGOCM 5%G 40%O 55%M	0.84
120.00	SGMCO 5%G 65%O 30%M	1.68
0.00	440ft GIP	0.00

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

DST #1 PRESSURE VS TIME CHART

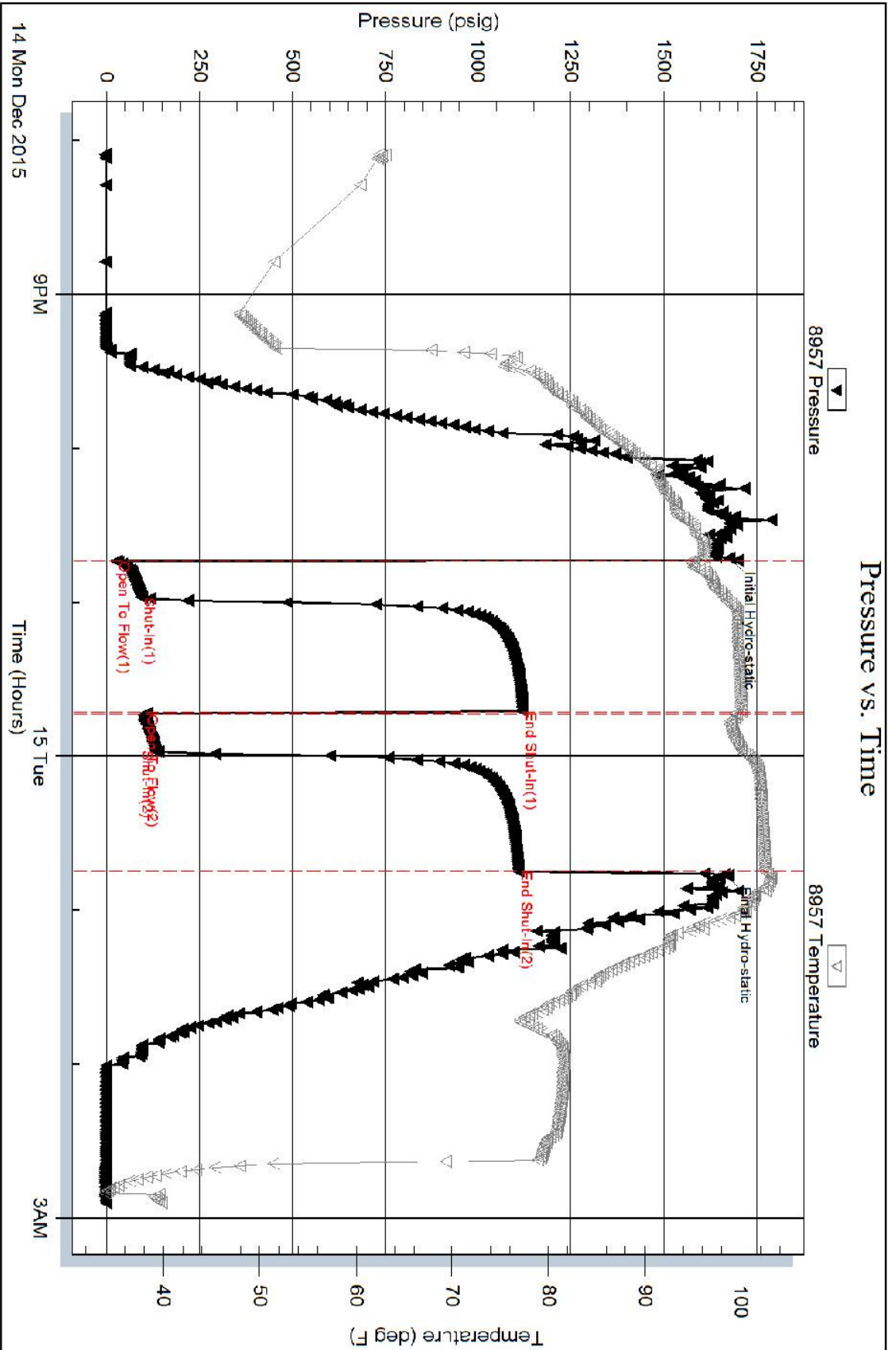
Serial #: 8957

Inside

Jason Oil CO. LLC

Hart-Billips #1

DST Test Number: 1

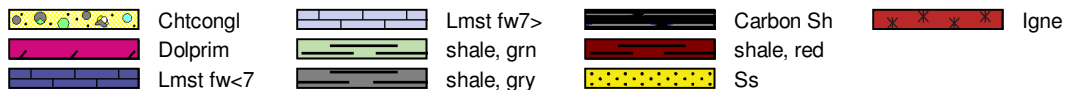


Tribolite Testing, Inc

Ref. No. 64874

Printed: 2015.12.15 @ 06:46:48

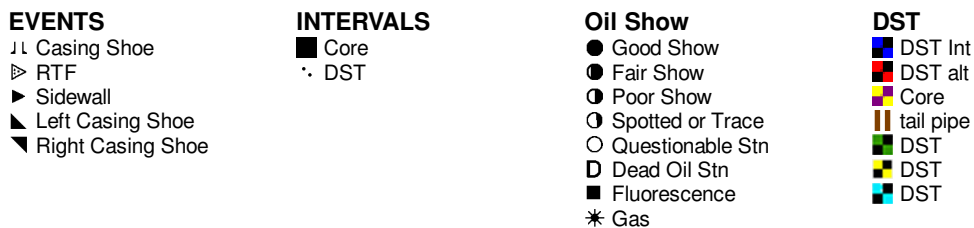
ROCK TYPES



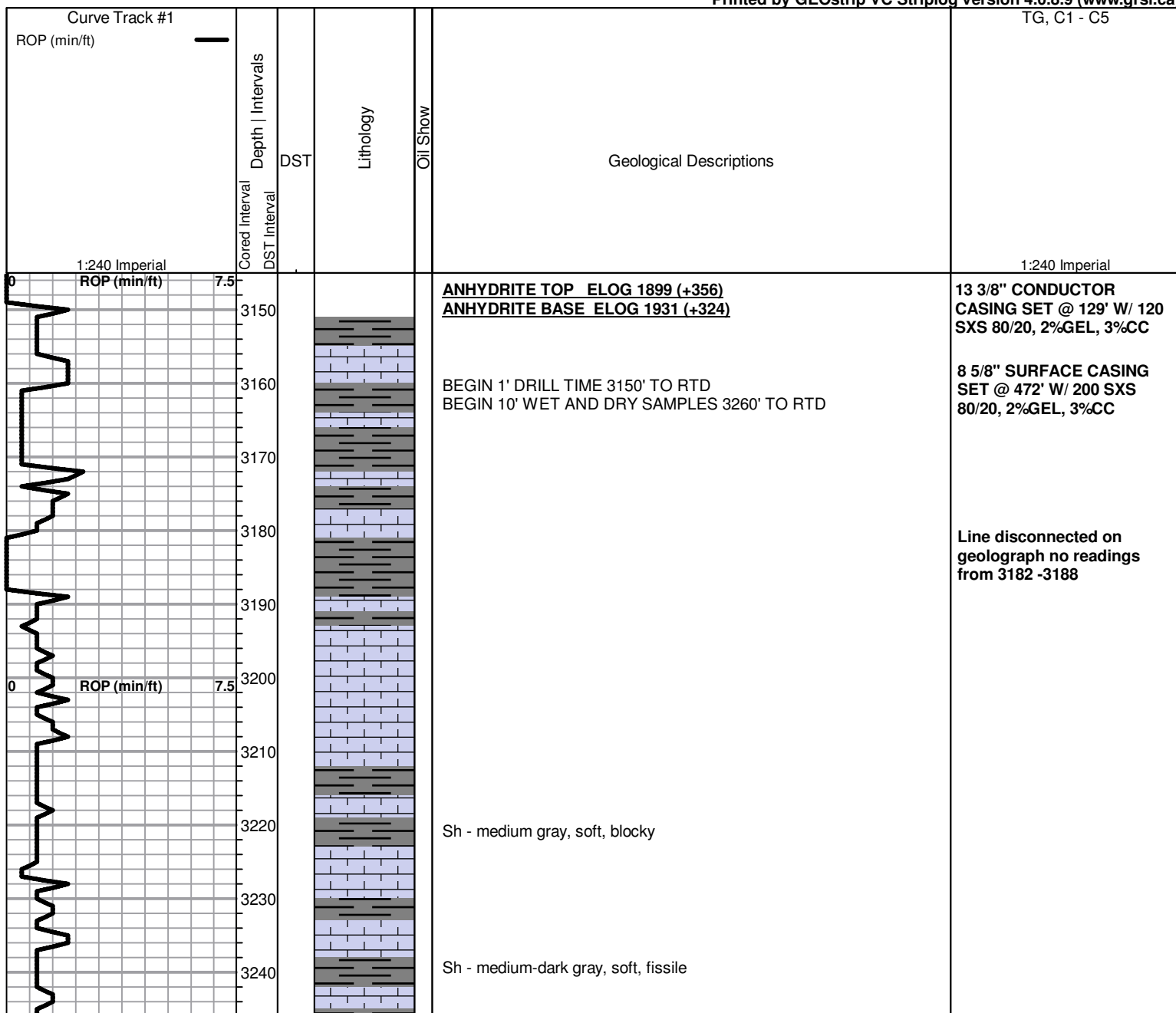
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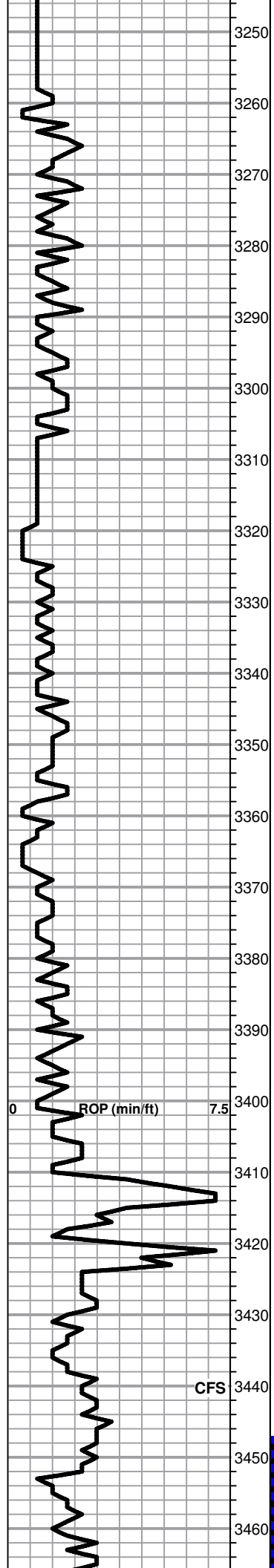


OTHER SYMBOLS



Printed by GEOstrip VC Striplog version 4.0.8.9 (www.grsi.ca)





3250
3260
3270
3280
3290
3300
3310
3320
3330
3340
3350
3360
3370
3380
3390
3400
3410
3420
3430
3440
3450
3460

Sh - medium gray to brown, soft, blocky

TOPEKA ELOG 3264 (-1009)

Lm - cream-light gray, fnxn, fossiliferous, dense

Sh - dark gray, firm, blocky

Lm - cream, fnxn, fossiliferous, fusulinids, brittle, pyrite clusters

Lm - cream-tan, fn-medxn, slightly fossiliferous, brittle, slightly chalky

Sh - maroon, soft, blocky

Lm - cream-tan, fnxn, dense, brittle

Sh - medium gray, soft, blocky

Lm - cream, fnxn, clean and sharp, white chert in part

Lm - cream-tan, fnxn, slightly fossiliferous, brittle

Lm - cream, fnxn to lithographic in some, bedded chalk

Lm - cream, fnxn, dense, pyrite

Sh - black, carbonaceous, waxy, fissile

Sh - maroon, soft, blocky

Lm - tan-light brown, fn interxn porosity, dense, hard

Lm - tan, fnxn, dense, brittle, white sticky chalk in part

Sh - maroon-brown, soft, blocky, forming sticky clumps

Sh - black, carbonaceous, firm, waxy

Lm - cream, oolitic with fn interxn porosity and scattered vugs, dark stain, fair odor, slight SFO upon crush, good streaming wet cut

Lm - cream, fnxn, slightly fossiliferous, dense, no shows

HEEBNER ELOG 3458 (-1203)

Sh - black, carbonaceous, firm, fissile

Lm - tan, fnxn, dense, hard

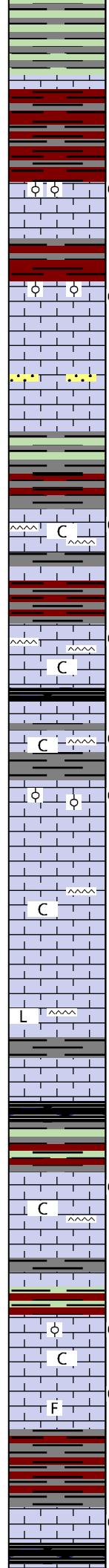
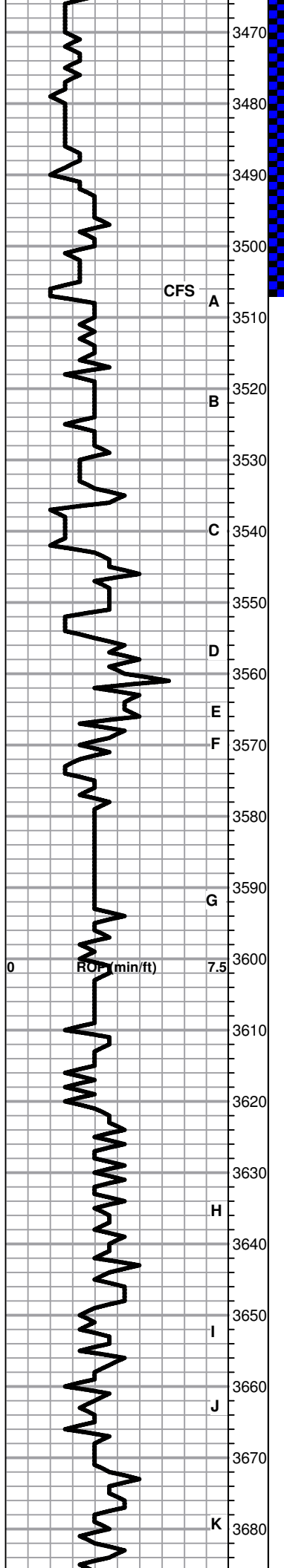
BIT TRIP 3423'

MUD WT 9.1
VIS 42
LCM 2#

DST #1 3448 TO 3506
SEE HEADER FOR SUMMARY

ROP (min/ft)

CFS



Sh - green/gray/maroon, soft, blocky, forming very sticky clumps

3480

TORONTO ELOG 3492 (-1237)

3490 Lm - off white, oolitic, scattered light brown stain, fn interln porosity w/ scattered vugs, no odor, slight streaming wet cut

3500 Sh - reddish brown, soft, blocky, some sticky

LKC ELOG 3504 (-1249)

3510 Lm - cream, oolitic, vuggy porosity, light golden brown saturated stain, SFO, good streaming wet cut, good odor

3520 Lm - cream-tan, fnxn, dense, bedded chalk in part, clean and barren, couple chips of SS, very fine grained, well rounded, well cemented, no shows

3530 Sh - dark gray, some green/brown/maroon, soft, blocky, forming sticky clumps

3540 Lm - cream, fine pinpoint porosity, dark saturated staining, Slight SFO, good fluorescence, faint odor, hard, not easily crushed, tight, slightly chalky, very cherty

3550 Sh - reddish brown/gray, soft, blocky

3560 Lm - cream-gray, fine interln porosity, slightly oolitic, scattered staining, slight SFO, no odor, cherty, slightly chalky

3570 Sh - black, carbonaceous, waxy, soft

3580 Lm - gray, fine interln porosity, scattered staining, fair odor, some SFO, cherty, chalky

3590 Lm - cream, oolitic, light golden brown stain, slight SFO, good odor, good fluorescence

3600 Lm - cream-brown, fnxn, clean and sharp, dense, slightly chalky, cherty, no shows

3610 Lm - cream-gray, fnxn, slightly chalky, white oolitic chert, no shows

3620 Lm - tan, vfxln to lithographic in some, dense, hard, opaque chert

3630 Sh - black, carbonaceous, soft, waxy

3640 Sh - green/gray/maroon, soft, blocky

3650 Lm - light brown, fnxn, dense, couple pieces with fine pinpoint porosity and light staining, no odor, NSFO, cherty, bedded chalk in part

3660 Sh - reddish brown/green, soft, blocky

3670 Lm - cream, fine pinpoint porosity, some oolitic, hard, slight scattered stain, NSFO, no odor, chalky

3680 Lm - light gray, fossiliferous, poorly developed, rare scattered stain, NSFO, no odor

Sh - reddish brown/gray, firm, blocky

Lm - cream, slighty fossiliferous, scattered dark stain, no odor, NSFO

Sh - black, carbonaceous, firm, waxy

