JOB LOG — SWIFT Services, Inc.

DATE 11-27-11 | PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
T.D.I.	1	Biener	Longstring	21141

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) ~~(GAL)~~	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0330							ONLOCATION
								CMT: 175sks STD EA 2
								RTD-3746, SETPIPE-3743, SJ20.46, INSERT-3723
								5½ 14# Limit Clamp #3
								CENT 9#, 2, 4, 6, 8, 10, 12, 13, 15 Basket 3, 14
								10' off of Jt
								Jts Out, 74, 88, 92, 93 4 on, Run 90
	0540							START CSG & FLOAT EQU
	0730							TAG Bottom - Drop Ball
	0830							Break Circ & Rotate Pipe
	0845		7.5					Plug RH 30, MH 15
	0850	5.5	12		-		200	12 bbls MUD FLUSH SOLD
		5	20		-		5	20 bbls HCL FLUSH
			31.5		-			130 sks STD EA 2
								Drop Co Plug, Wash out PL
		6.0	0		-		200	START Disp. w/ 90 bbls 2% KCL
			20.0		-			
			60.0		-		400	Cmt on Bottom
			80.0		-		600	
			85.0		-		700	
	0915	4.5	90.8		-		1500	Land Plug
	0920							Release - Dry
	1000							JOB COMPLETE
								THANK YOU!
								Dave, Josh & Lane

JOB LOG

SWIFT Services, Inc.

DATE 11-20-11 | PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
TDI	#1	Baker	Deep Surface	26374

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1515							on loc w/ FE
								RTD 1166'
								8 5/8" x 23" x 1164' x 43'
								#6 out
	1740							FE
	1935							Circ
	1955	4.5	0				150	Start Mud Flush spacer
	1955	4.5	12/0				150	Start KCL flush 20 bbl
	2004	5	20/0				200	Start 11.8# SMD
		5	46/0				200	Start 12.5# SMD
			55/0				200	Start 13# SMD
			64/0				200	Start 14.5# SMD
	2032		20					End Cmt
								Drop Plug
	2037	5	0				150	Start Displacement
	2042	4	20				150	Circ Cement
	2053		86.75				400	Land Plug
								Shut In
								Circ 75 sks to pit
								Thank you
								Nick, Scott & Joe

Scale 1:240 Imperial

Well Name:	BIEKER #1		
Surface Location:	NE NE SE 24-15-19		
Bottom Location:			
API:	15-051026204		
License Number:	4787		
Spud Date:	11/19/2011	Time:	1:00 PM
Region:	ELLIS		
Drilling Completed:	11/26/2011	Time:	2:07 PM
Surface Coordinates:	2310 FSL & 330 FEL		
Bottom Hole Coordinates:			
Ground Elevation:	1978.00ft		
K.B. Elevation:	1988.00ft		
Logged Interval:	0.00ft	To:	3743.00ft
Total Depth:	3746.00ft		
Formation:			
Drilling Fluid Type:	FRESH WATER/CHEMICAL GEL		

OPERATOR

Company:	TDI, INC.		
Address:	1310 BISON ROAD HAYS, KS 67601		
Contact Geologist:	TOM DENNING		
Contact Phone Nbr:	(785) 628-2593		
Well Name:	BIEKER #1		
Location:	NE NE SE 24-15-19	API:	15-051026204
Pool:		Field:	UNNAMED
State:	KANSAS	Country:	USA

SURFACE CO-ORDINATES

Well Type:	Vertical		
Longitude:	-99.3761986	Latitude:	38.732216
N/S Co-ord:	2310 FSL		
E/W Co-ord:	330 FEL		

LOGGED BY

Company:	SOLUTIONS CONSULTING
Address:	108 W 35TH HAYS, KS 67601

Phone Nbr:	(785) 259-3737		
Logged By:	Geologist	Name:	JEFF LAWLER

CONTRACTOR

Contractor:	SOUTHWIND		
Rig #:	1		
Rig Type:	MUD ROTARY		
Spud Date:	11/19/2011	Time:	1:00 PM
TD Date:	11/26/2011	Time:	2:07 PM
Rig Release:	11/27/2011	Time:	2:00 AM

ELEVATIONS

K.B. Elevation:	1988.00ft	Ground Elevation:	1978.00ft
K.B. to Ground:	10.00ft		

NOTES

WITH THE ECONOMICAL RECOVERY ON DST #1 & DST #3 DECISION WAS MADE TO RUN 5 1/2" x 14# PRODUCTIONS CASING.

RESPECTFULLY SUBMITTED,
JEFF LAWLER

DST #1 LKC " B,C,D "

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI Inc.

1310 Bison Road
Hays, KS. 67601

ATTN: Jeff Lawler

24-15s-19w-Ellis

Beiker #1

Job Ticket: 44694 **DST#: 1**

Test Start: 2011.11.24 @ 08:29:46

GENERAL INFORMATION:

Formation: **B-C-D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:48:46
Time Test Ended: 16:08:46

Test Type: Conventional Bottom Hole (Initial)
Tester: Jason McLemore
Unit No: 54

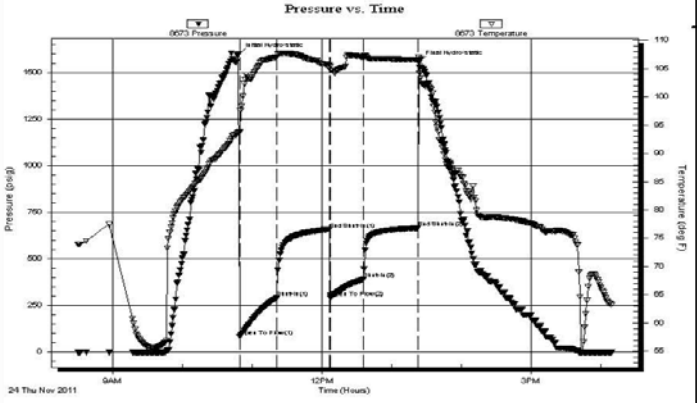
Interval: 3284.00 ft (KB) To 3340.00 ft (KB) (TVD)
Total Depth: 3340.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1988.00 ft (KB)
1981.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8673 **Inside**
Press@RunDepth: 392.78 psig @ 3322.00 ft (KB)
Start Date: 2011.11.24 End Date: 2011.11.24
Start Time: 08:29:48 End Time: 16:08:46

Capacity: 8000.00 psig
Last Calib.: 2011.11.24
Time On Btm: 2011.11.24 @ 10:48:01
Time Off Btm: 2011.11.24 @ 13:22:46

TEST COMMENT: IFP-Strong,BOB in 2 Min.
ISI-Blow back BOB in 15 Min.
FFP-Strong,BOB in 2 Min., Gas To Surface in 25 Min.
FSI-Blow back BOB in 5 Min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1598.90	93.73	Initial Hydro-static
1	85.85	93.81	Open To Flow (1)
33	291.56	107.04	Shut-In(1)
79	660.13	105.67	End Shut-In(1)
79	293.60	104.72	Open To Flow (2)
108	392.78	107.01	Shut-In(2)
155	666.33	106.59	End Shut-In(2)
155	1557.12	107.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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

60.00	OCM-10%O-90%M	0.84
720.00	Muddy Oil-97%O-3%M	10.10
150.00	Muddy Water-95%W-5%M	2.10

DST #2 LKC " I,J "

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI Inc.

1310 Bison Road
Hays, KS. 67601

ATTN: Jeff Lawler

24-15s-19w-Ellis

Beiker #1

Job Ticket: 44695 **DST#: 2**

Test Start: 2011.11.25 @ 02:54:32

GENERAL INFORMATION:

Formation: **I-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:23:02
Time Test Ended: 10:12:32

Test Type: Conventional Bottom Hole (Reset)
Tester: Jason McLemore
Unit No: 54

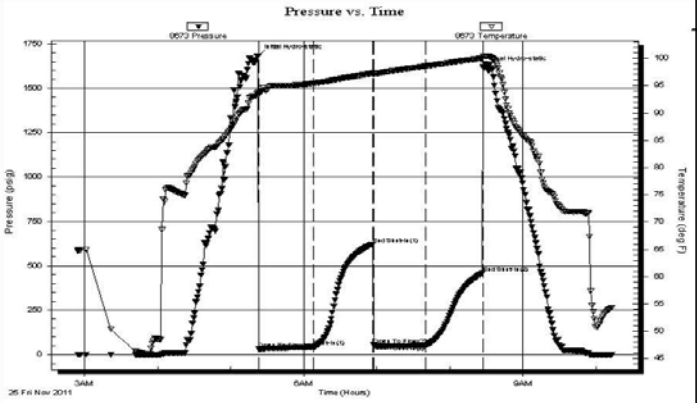
Interval: 3428.00 ft (KB) To 3478.00 ft (KB) (TVD)
Total Depth: 3478.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1988.00 ft (KB)
1981.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8673 **Inside**
Press@RunDepth: 51.48 psig @ 3465.00 ft (KB)
Start Date: 2011.11.25 End Date: 2011.11.25
Start Time: 02:54:34 End Time: 10:12:32

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2011.11.25 @ 05:22:32
Time Off Btm: 2011.11.25 @ 08:27:17

TEST COMMENT: IFP-Weak Blow , Built to 4-1/2"
ISI-Dead
FFP-Weak Blow , Built to 3"
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.82	93.79	Initial Hydro-static
1	30.47	93.27	Open To Flow (1)
46	42.69	95.43	Shut-In(1)
95	623.00	97.25	End Shut-In(1)
95	55.22	97.10	Open To Flow (2)
138	51.48	98.54	Shut-In(2)
185	458.93	100.01	End Shut-In(2)
185	1619.33	100.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Free Oil	0.07
45.00	Muddy Water-60%W-40%M	0.63

* Recovery from multiple tests

Gas Rates

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

DST #3 LKC " K " _CONGLOMERATE SAND

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI Inc.

1310 Bison Road
Hays, KS. 67601

ATTN: Jeff Lawler

24-15s-19w-Ellis

Beiker #1

Job Ticket: 44696 **DST#: 3**

Test Start: 2011.11.26 @ 00:26:54

GENERAL INFORMATION:

Formation: **K-Conglomerate Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:22:09
Time Test Ended: 06:54:09

Test Type: Conventional Bottom Hole (Reset)
Tester: Jason McLemore
Unit No: 54

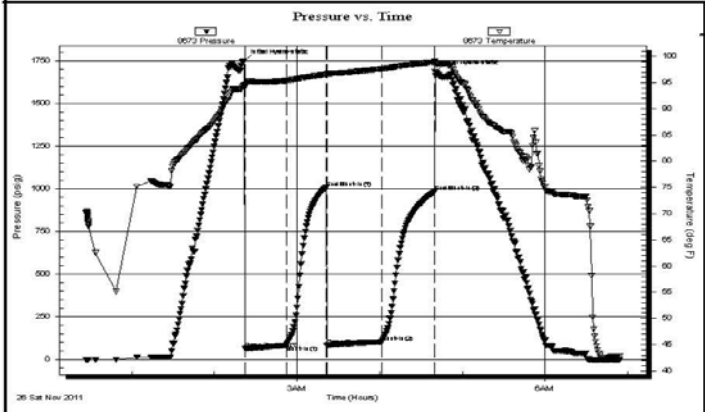
Interval: 3470.00 ft (KB) To 3605.00 ft (KB) (TVD)
Total Depth: 3605.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1988.00 ft (KB)
1981.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8673 **Inside**
Press@RunDepth: 103.44 psig @ 3572.00 ft (KB)
Start Date: 2011.11.26 End Date: 2011.11.26
Start Time: 00:26:56 End Time: 06:54:09

Capacity: 8000.00 psig
Last Calib.: 2011.11.26
Time On Btm: 2011.11.26 @ 02:21:39
Time Off Btm: 2011.11.26 @ 04:40:09

TEST COMMENT: IFP-Good Blow ,BOB in 10 Min
ISI-Dead
FFP-Good Blow ,BOB in 7 Min.
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1752.79	94.54	Initial Hydro-static
1	64.26	94.13	Open To Flow (1)
31	83.59	95.39	Shut-In(1)
60	1008.85	96.52	End Shut-In(1)
60	83.25	96.59	Open To Flow (2)
100	103.44	97.61	Shut-In(2)
138	982.74	98.93	End Shut-In(2)
139	1689.52	99.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Free Oil	0.70
60.00	Mud Cut Oil-30%G-40%O-30%M	0.84
0.00	360' Gas In Pipe	0.00

* Recovery from multiple tests

Gas Rates

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

Trilobite Testing, Inc Ref. No: 44696 Printed: 2011.11.26 @ 14:12:51

ROCK TYPES

Cht
Cht vari
Chtcongl
Dolprim
Dolsec
Lmst fw<7
Lmst fw7>
shale, grn
shale, gry
Carbon Sh
shale, red
Shcol
Ss

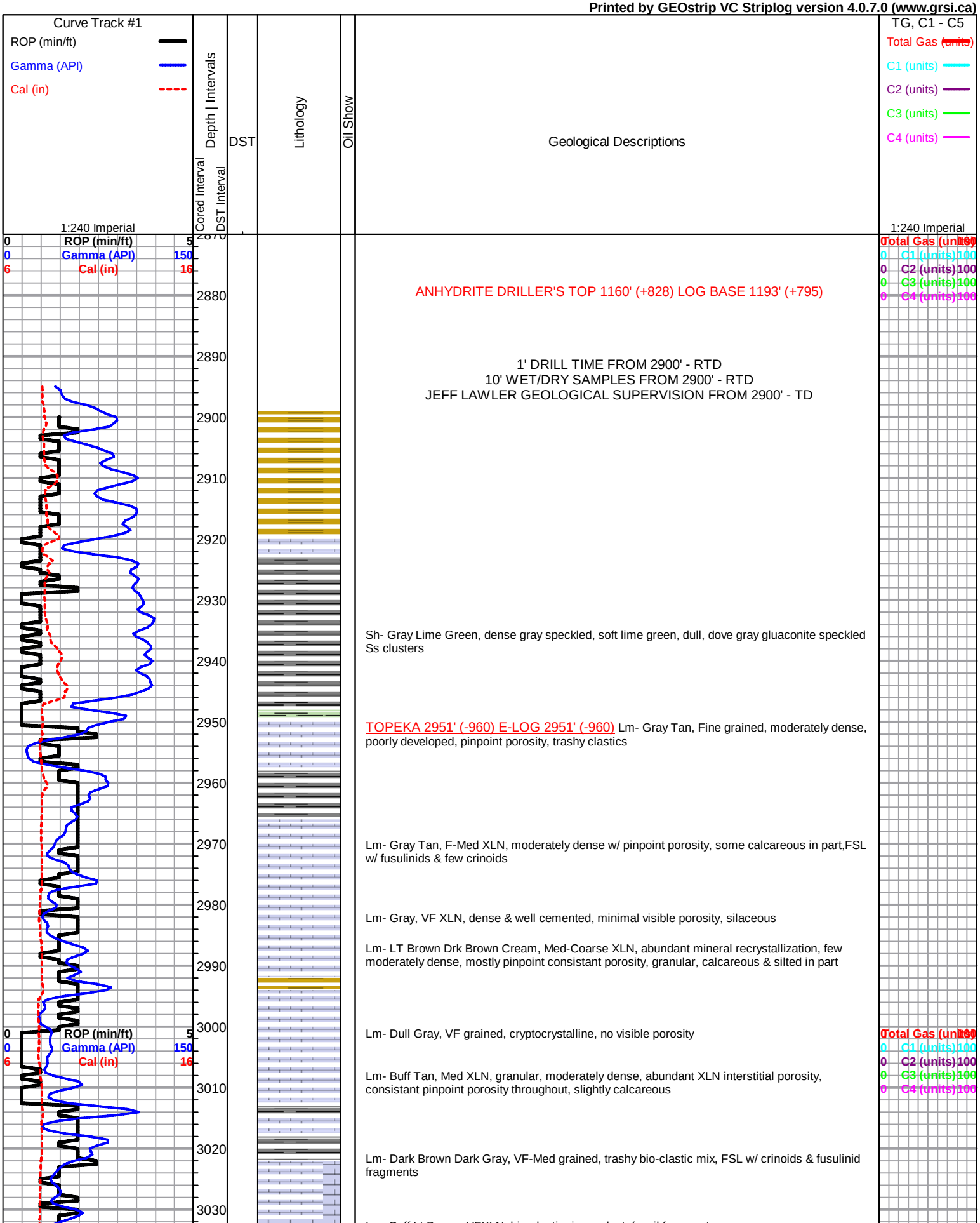
ACCESSORIES

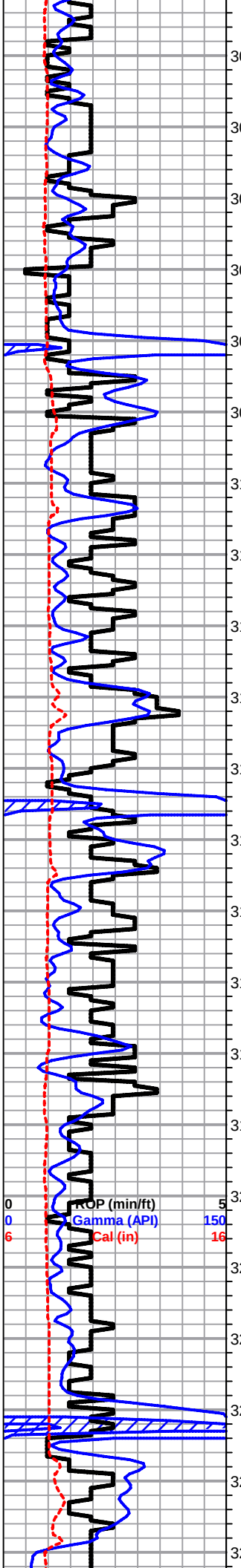
STRINGER
Sandstone

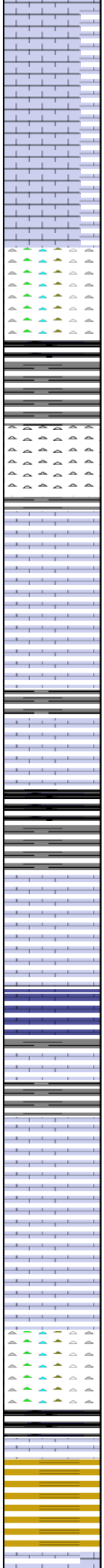
OTHER SYMBOLS

DST
- DST Int
- DST alt
- Core

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)







Lm- Buff Lt Brown, VFXLN, bio-clastic rip up clast, fossil fragments

Lm- Tan Cream, Med grained, granular, dense silted mud matrix, slightly dolomitc, few chips of reworked unconsolidated cherty Ls

Lm- Tan Gray, sticky argillaceous calcareous clumps

Chert- Dove Gray, VF, trashy bio-clastic dense bedded, massive, FSL

Sh-Black Gray Milky White, carbonaceous, fissile, soft, smooth round chips, abundant sticky argillaceous clumps

Chert- Brown Cream Gray, sharp angular bedded, some dense granular dolomitic chert, pinpoint porosity

Lm- Buff, Med grained, granular & gritty, moderately dense & well cemented, consistant pinpoint porosity, few chips w/ XLN porosity

Sh- Light Gray White, sticky argillaceous clumps, gray wash

Lm- Lt Brown Lt Gray, Med XLN, gritty & granular, semi-friable, good pinpoint porosity, mottled, NO STN, NO ODR

Sh- Black Gray, soft, semi-gritty, black dense & well compacted

Lm- Dark Gray Brown Tan, VF grained, dense & well cemented, minimal visible porosity, semi-cryptocrystalline

Lm- Buff Cream Tan, Fine - FXLN, gritty, slightly dolomitic, dense & well cemented, some chips silty mud matrix

Lm- Cream Lt Gray, VF-F, some XLN, mostly calcareous, some granular, moderately dense w/ pinpoint porosity, slightly FSL w/ fusulinids

Lm- Dark Gray, mostly dense, partly siliceous, FSL w/ fusulinids, little visible porosity

Lm- Cream Lt Gray, VF-F XLN, calcareous in part, some granular, mostly dense w/ minimal visible porosity, 1-2 chips dense w/ LT SCATTERED LT BRWN STN, NO ODR, edge recrystallization

Lm- Cream Tan, Med XLN, granular w/ consistant pinpoint porosity, some reworked trashy bio-clastics, FSL w/ crinoids

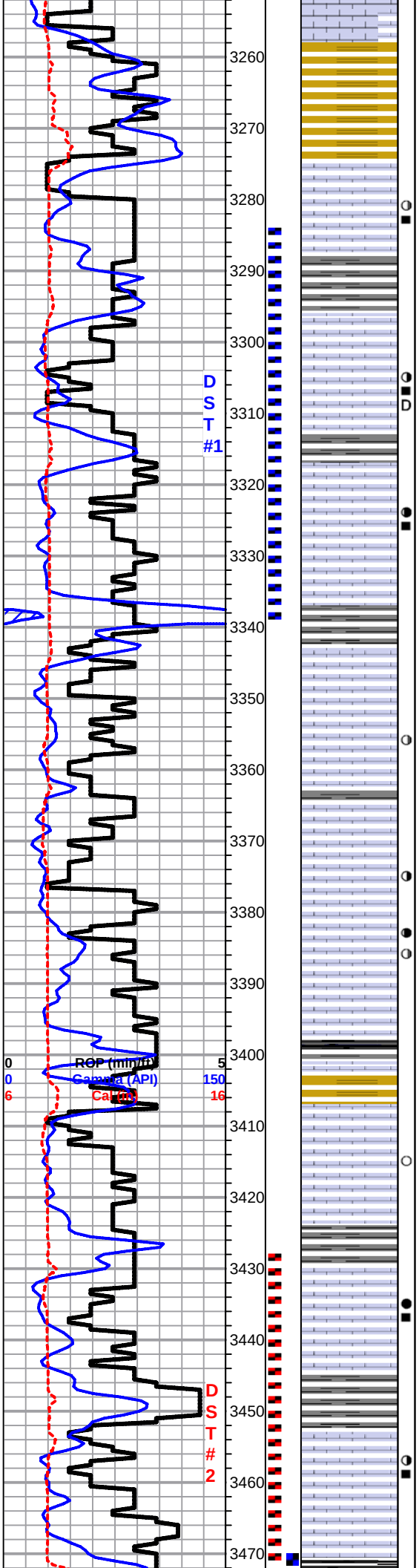
Chert- Smokey Gray Semi-Translucent Gray, mostly reworked, FSL w/ fusulinids, few chips of sharp angular bedded, dense w/ some pinpoint porosity

HEEBNER 3234' (-1246) E-LOG 3230' (-1242) Sh- Black Gray Lime Green, Carbonaceous & fissle, grainy, soft, clumps of argillaceous lime green

Sh- Cream, calcareous, soft

TORONTO 3253' (-1265) E-LOG 3250' (-1262) Lm- Tan Cream, VF-F XLN, calcareous in

Total Gas (units) 100
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100



part, some granular & dense, well cemented, 1-2 chips, MED XLN, MOSTLY DENSE W/ SCATTERED EDGE POROSITY, RARE DRK STN, RECRYSTALLIZATION, NO ODR, MINERAL FLOR, INSTANT HVY STREAMING WET CUT & FLOR

LKC 3279' (-1291) E-LOG 3275' (-1287) Lm- Lt Gray Cream, VF-F XLN, moderately dense w/ minimal visible porosity, poorly developed, some institial recrystallization, FEW CHIPS MOSTLY DENSE W/ SCATTERED EDGE POROSITY, LT GSY STN, FNT ODR, CLOUDY WET CUT, 1 CHIP GRANULAR CONSISTANT PINPOINT POROSITY, SATURATED DRK BRWN STN

Lm-Cream Tan, VF grained, calcareous in part, silted & dense, soft, some VF XLN, dense w/ scattered recrystallization porosity

Lm- Tan Cream, Med-Coarse XLN, well developed, oolicastic-oolomoldic, recrystallization w/in vugs, some w/ dark gilsonitic stn, mostly LT GSY SCATTERED STN, SFO, FR ODR, INSTANT SLOW STREAMING WET CUT, developement & porosity lessen w/ depth

Lm- Cream Tan, F-Coarse XLN, moderately developed w/ scattered coarse XLN vuggy porosity w/ recrystallization w/in, mostly pinpoint porosity, LT GSY STN THROUGHOUT, SFO, GOOD ODR, INSTANT STREAMING WET CUT

CFS @ 3340'
SHORT TRIP
SLOPE 1/2 dgr
BOARD 3369.38
STRAP 3367.34
STRAP -2.04
DST #1
3284-3340

Lm- Cream, VF grained, mostly dense w/ scattered edge porosity, recrystallization, SCATTERED LT GSY STN, NFO, FNT ODR

LM- Cream Tan, Coarse XLN, oolitic, well developed, vuggy porosity w/ recrystallization w/in, SCATTERED GSY STN, NSFO, NO ODR

Lm- Cream Tan, MedXLN -VF grained, mostly well developed w/ consistant small vuggy porosity, SATURATED GSY LT BRWN STN, RECRYSTALLIZATION W/IN VUGS, SLSGSYFO, few chips mostly dense w/ scattered micro-vuggy porosity, LT GSY STN in vugs, NSFO, porosity lessens w/ depth

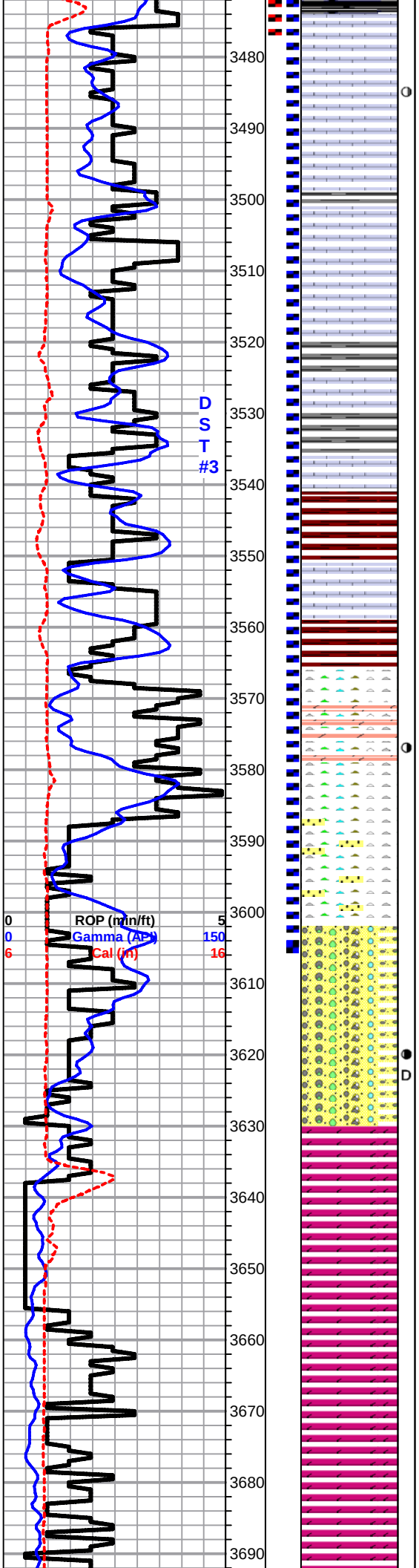
Lm- White, abundant calcareous sticky lime

Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100

Lm- Tan Buff, VF-F XLN, mostly dense, poorly developed, few chips w/ solution veins w/ recrystallization, DRK STN w/in, SCATTERED EDGE POROSITY W/ DRK STN, ODR
Chert- White Semi-Translucent, sharp, angular, fresh bedded chert

Lm- Tan Cream, Med-Coarse XLN, very well developed, slightly dolomitic, rhombehedral crystals, consistant interconnected micro-vugular porosity, SATURATED GSY STN, FEW BLEEDING W/ LIVELY FO, INSTANT BRIGHT WET CUT

Lm- Cream Tan, Med XLN, ooilitic, scattered pinpoint porosity, scattered vugs, recrystallization w/in vugs, LT GSY STN, NFO, STREAMING WET CUT



CFS @ 3478'
DST #2
3428-3478

Lm- Cream Tan, Med-Coarse XLN, scattered oolitic development, scattered micro-vugular porosity, calcareous in part, some moderately dense, , SL SCATTERED STN, SLFFO, GD ODR

Lm- Tan Cream, VFXLN, poorly developed, mostly dense w/ little to no visible porosity

BKC 3520' (-1532) E-LOG 3520' (-1532) Sh- Gray Blue-Green Gray, grainy, soft, some dense, calcareous white clumps

Lm- Cream, Med XLN, poorly developed, dense, tight interstitial XLN porosity

Lm- Cream Tan Red Mottled, VF, some XLN, mostly calcareous & silted, minimal porosity

Sh- Maroon, grainy, gritty & earthy, soft

Lm- Cream Buff, VF XLN, dense w/ little visible porosity

Cherty/Dolomitic Conglomerate- VF XLN, consistant pinpoint porosity dolomite, DRK BROWN SATURATED STN, SLOW CLOUDY WET CUT UPON CRUSH, SFO
FEW CHIPS OF VF GRAINED PEBBLEY UNCONSOLIDATED CONGLOMERATE W/ SATURATED STN, INSTANT STREAMING WET CUT & FLOR, mult-colored sharp angular fresh bedded chert

Cherty Sand- Cluseters of sub-rounded to sub-angular, slighty frosted, silicon cemented. Mostly comglomeritic clusters, few cleaner, semi-friable to friable. SCATTERED STN, HVY BRWN, STREAMING WET CUT, slightly efferevescent

Total Gas (units)
CFS @ 3605
DST #3
3470-3605'

Conglomerate- abundant multi-colored shales. Reworked chert, various colors, some oolititc, few pieces oolimoldic w/ SATURATED DRK HVY BLACK OIL STN, NO ODR

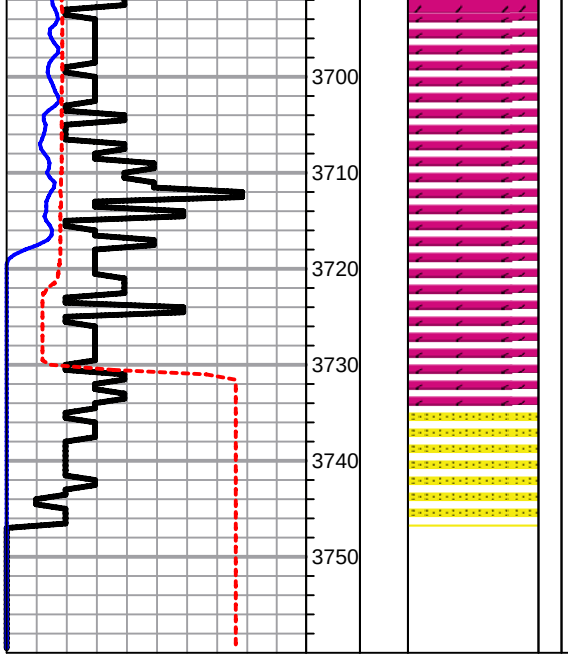
E-LOG ARBUCKLE TOP 3630' (-1642)

Weathered Arbuckle- Coarse XLN, tan cream, rhombic crystalline, friable, efferevescenses to nothing, some silted w/ pyrite inclusions. Clean on top and silted towards bottom of section

ARBUCKLE 3662' (-1674) E-LOG 3630' (-1642) Dolomite- Cream Tan, VF XLN, dense w/ consistant pinpoint poroisty, scattered micro vugular porosity, NSO, NO STN, NO ODR

Dolomite- Cream Tan, Med-Fine XLN, pinpoint porosity throughout, moderately dense & well cemented, some recrystallization

Dolomite- A/A, Med-Coarse XLN



Dolomite- Cream Tan, Med-Fine cryatalline, good porosity throughout, well defined rhombic crystals

Dolomite- Cream Tan, VF-F XLN, dense & well cemented

Sand- Fine-Med grained, cluster of mostly clear, rounded to well rounded, loosely cemented & friable to very friable, non Ca cementation, mostly clean, few better cementation

RTD 3746' (-1758) LTD 3743' (-1755) @ 14:07 11-26-2011

SLOPE 1 dgr.