

OPERATOR

Company: TDI, INC
Address: 1310 BISON ROAD
HAYS, KANSAS 67601

Contact Geologist: TOM DENNING
Contact Phone Nbr: 785-628-2593
Well Name: EVANS # 1
Location: N2 SW SW SW Sec.35-16s-19w
Pool: WILDCAT
State: KANSAS

API: 15-165-22,037-00-00
Field: UNNAMED
Country: USA



1310 BISON ROAD
HAYS, KANSAS 67601
(785) 628-2593

Scale 1:240 Imperial

Well Name: EVANS # 1
Surface Location: N2 SW SW SW Sec.35-16s-19w
Bottom Location:
API: 15-165-22,037-00-00
License Number: 4787
Spud Date: 8/10/2013 Time: 10:15 AM
Region: RUSH COUNTY
Drilling Completed: 8/16/2013 Time: 8:22 AM
Surface Coordinates: 435' FSL & 330' FWL
Bottom Hole Coordinates:
Ground Elevation: 2069.00ft
K.B. Elevation: 2079.00ft
Logged Interval: 2800.00ft To: 3815.00ft
Total Depth: 3815.00ft
Formation: LANSING-KANSAS CITY
Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.4005857 Latitude: 38.6128424
N/S Co-ord: 435' FSL
E/W Co-ord: 330' FWL

LOGGED BY

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

Phone Nbr: (785) 639-1337
Logged By: Geologist

Name: HERB DEINES

CONTRACTOR

Contractor: SOUTHWIND DRILLING, INC.
Rig #: 1
Rig Type: MUD ROTARY

Rig Type: MOD ROTARY
Spud Date: 8/10/2013
TD Date: 8/16/2013
Rig Release: 8/17/2013

Time: 10:15 AM
Time: 8:22 AM
Time: 1:30 AM

ELEVATIONS

K.B. Elevation: 2079.00ft
K.B. to Ground: 10.00ft

Ground Elevation: 2069.00ft

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL DUE TO NEGATIVE RESULTS OF DST # 1 AND LOG EVALUATION.

OPEN HOLE LOGGING BY GEMINI WIRELINE: DUAL INDUCTION LOG, COMPENSATED NEUTRON/DENSITY LOG, MICRO RESISTIVITY LOG

DRILL STEM TESTING BY TRILOBITE TESTING INC: ONE (1) CONVENTIONAL TEST

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

EVANS # 1

435' FSL & 330' FWL, SW/4

Sec. 35-16s-19w

2069' GL 2079' KB

KUHN # 1

675' FNL & 1525' FEL

Sec. 34-16s-19w

Reference Well

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1283+ 796	1280+ 799	+ 799
B-Anhydrite	1311+ 768	1310+ 769	+ 767
Topeka	3090-1011	3089-1010	- 998
Heebner Shale	3370-1291	3370-1291	-1287
Toronto	3390-1311	3388-1309	
LKC	3415-1336	3415-1336	-1329
BKC	3668-1589	3670-1591	-1587
Marmaton	3726-1647	3726-1647	-1641
Conglomerate Sand		3777-1698	
RTD	3815-1736		-1721
LTD		3816-1737	

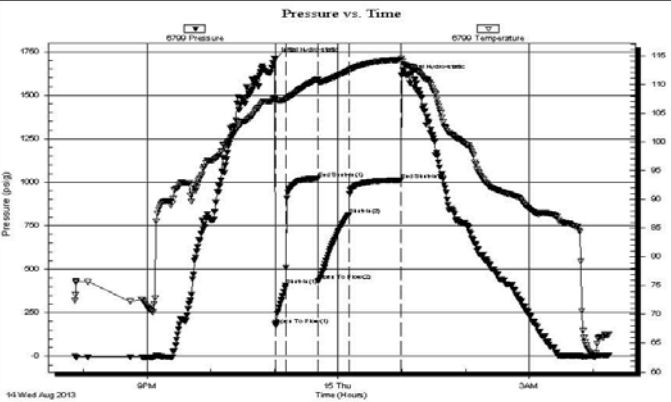
SUMMARY OF DAILY ACTIVITY

8-10-13 Spud 10:15 am, set 8 5/8" to 223.1' w/ 150 sxs Common, 2%Gel, 3%CC, plug down 3:30PM, slope 1/4 degree, WOC 8 hrs

8-11-13 755' drilling

8-12-13 2177', drilling
 8-13-13 2790', drilling, displace 2680'-2696'
 8-14-13 3370', drilling, CFS @3474'DST# 1 "A-D" LKC 3400-3474
 8-15-13 3475', TIWB, drilling, CFS@3626'
 8-16-13 3785', CFS@3775', RTD 3815'@8:22AM, CCH, TOWB, logs, P&A

DST # 1 "A" TO "D" LKC

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT																																										
TDI Inc 1310 Bison Rd Hays KS, 67601 ATTN: Herb D.	35-16s-19w Rush KS Evans #1 Job Ticket: 53946 DST#: 1 Test Start: 2013.08.14 @ 19:52:00																																										
GENERAL INFORMATION:																																											
Formation: LKC "A-D" Deviated: No Whipstock: ft (KB) Time Tool Opened: 23:01:15 Time Test Ended: 04:15:30		Test Type: Conventional Bottom Hole (Initial) Tester: Cody Bloedorn Unit No: 53																																									
Interval: 3400.00 ft (KB) To 3474.00 ft (KB) (TVD) Total Depth: 3474.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Reference Elevations: 2079.00 ft (KB) 2071.00 ft (CF) KB to GR/CF: 8.00 ft																																									
Serial #: 6799 Inside Press@RunDepth: 813.99 psig @ 3470.00 ft (KB) Start Date: 2013.08.14 End Date: 2013.08.15 Start Time: 19:52:05 End Time: 04:15:29																																											
		Capacity: 8000.00 psig Last Calib.: 2013.08.15 Time On Btm: 2013.08.14 @ 23:00:30 Time Off Btm: 2013.08.15 @ 00:59:45																																									
TEST COMMENT: 10 - IF- B.O.B. in 40 seconds 30 - IS- 2" return 30 - FF- B.O.B. in 40 seconds 45 - FSI- No return																																											
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">PRESSURE SUMMARY</th> </tr> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr><td>0</td><td>1707.66</td><td>107.64</td><td>Initial Hydro-static</td></tr> <tr><td>1</td><td>178.03</td><td>107.15</td><td>Open To Flow (1)</td></tr> <tr><td>10</td><td>407.00</td><td>107.27</td><td>Shut-In(1)</td></tr> <tr><td>41</td><td>1023.26</td><td>110.88</td><td>End Shut-In(1)</td></tr> <tr><td>41</td><td>431.74</td><td>110.54</td><td>Open To Flow (2)</td></tr> <tr><td>70</td><td>813.99</td><td>112.35</td><td>Shut-In(2)</td></tr> <tr><td>119</td><td>1011.86</td><td>114.25</td><td>End Shut-In(2)</td></tr> <tr><td>120</td><td>1612.35</td><td>114.57</td><td>Final Hydro-static</td></tr> </tbody> </table>		PRESSURE SUMMARY				Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1707.66	107.64	Initial Hydro-static	1	178.03	107.15	Open To Flow (1)	10	407.00	107.27	Shut-In(1)	41	1023.26	110.88	End Shut-In(1)	41	431.74	110.54	Open To Flow (2)	70	813.99	112.35	Shut-In(2)	119	1011.86	114.25	End Shut-In(2)	120	1612.35	114.57	Final Hydro-static
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310.00	GMV, 5%G, 40%M, 55%W	4.35
465.00	WM, 30%W, 70%M	6.52

Trilobite Testing, Inc

Ref. No: 53946

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DST # 1 EXPANDED CHART

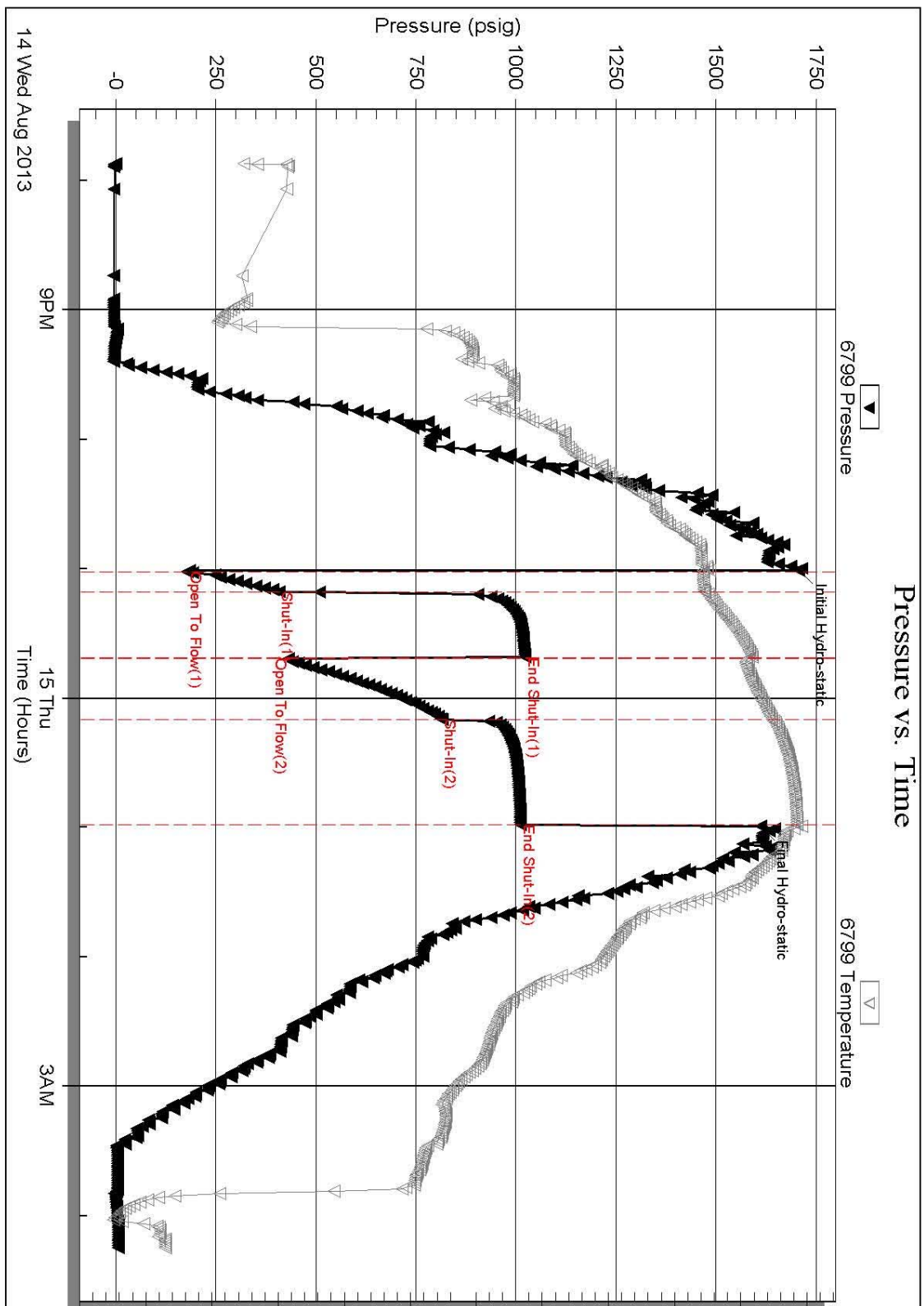
Serial #: 6799

Inside

TDI Inc

Evans #1

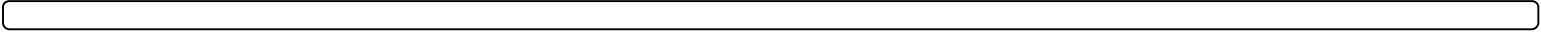
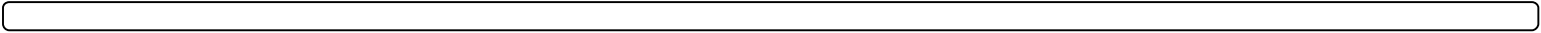
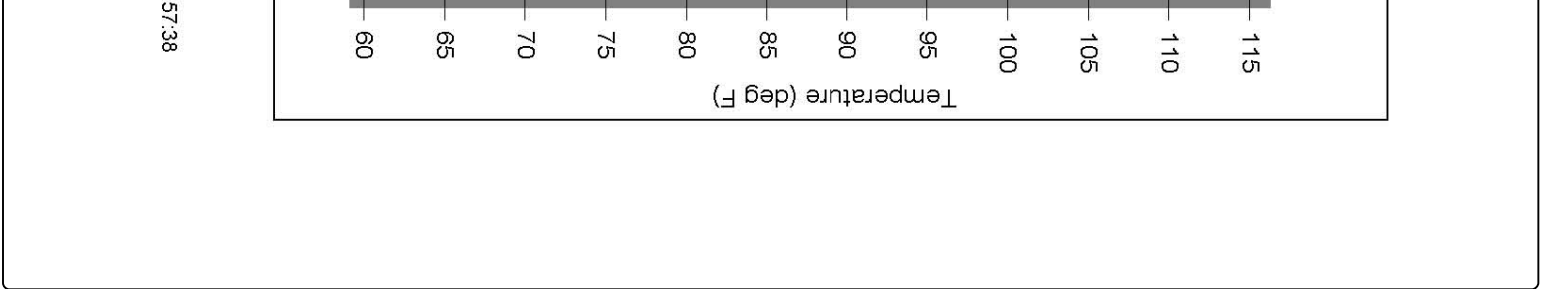
DST Test Number: 1



Trilobite Testing, Inc

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Printed: 2013.08.15 @ 07:57:37



ROCK TYPES

 Clystgy	 shale, grn	 shale, red	 Dol Lime
 Lmst fw<7	 shale, gry	 Shcol	 Lscongl
 Lmst fw7>	 Carbon Sh	 Ss	 CglSandy

ACCESSORIES

MINERAL

- ▲ Chert, dark
- P Pyrite
- △ Chert White

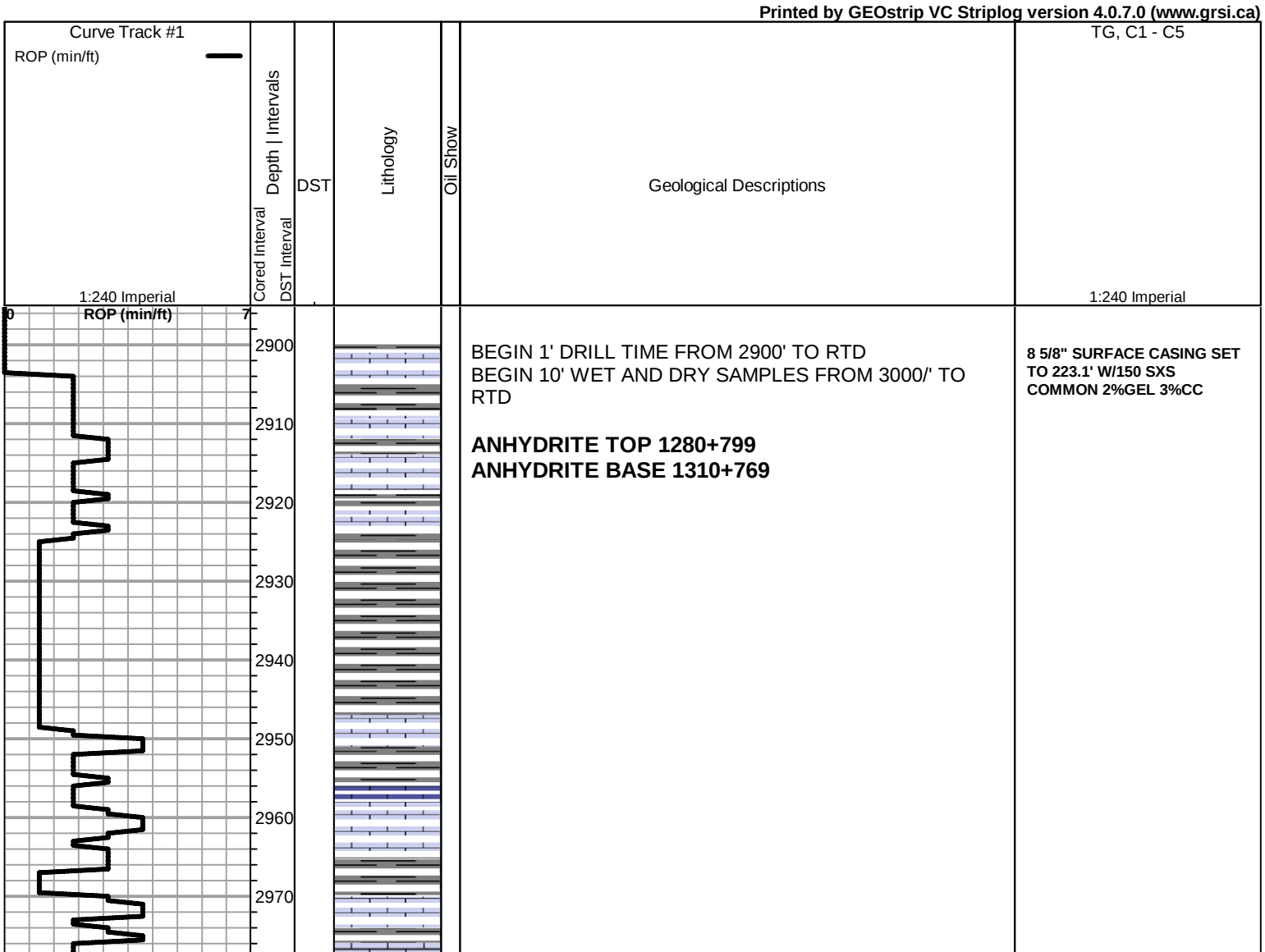
FOSSIL

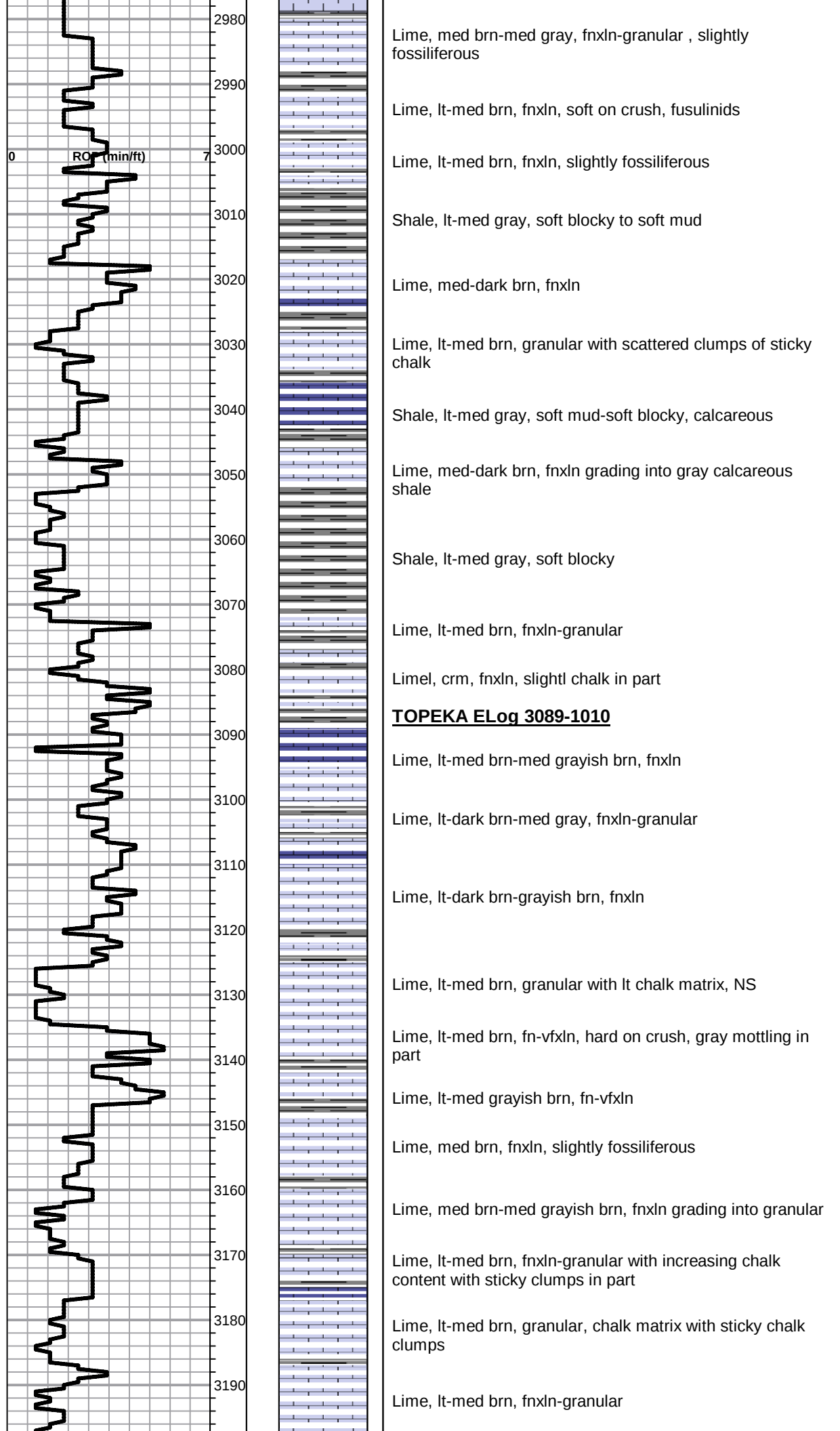
- Oolite
- ⬢ Oomoldic

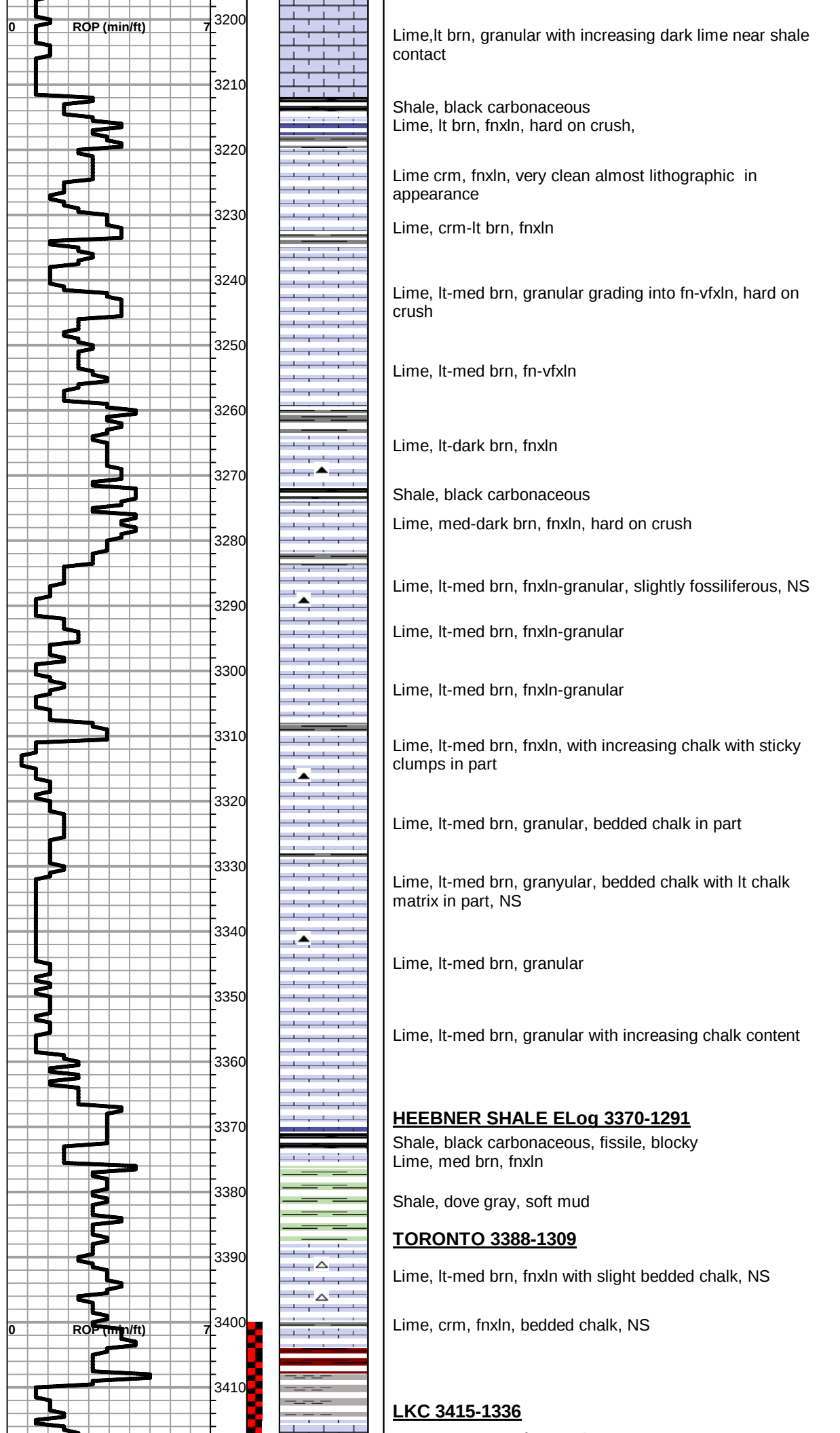
OTHER SYMBOLS

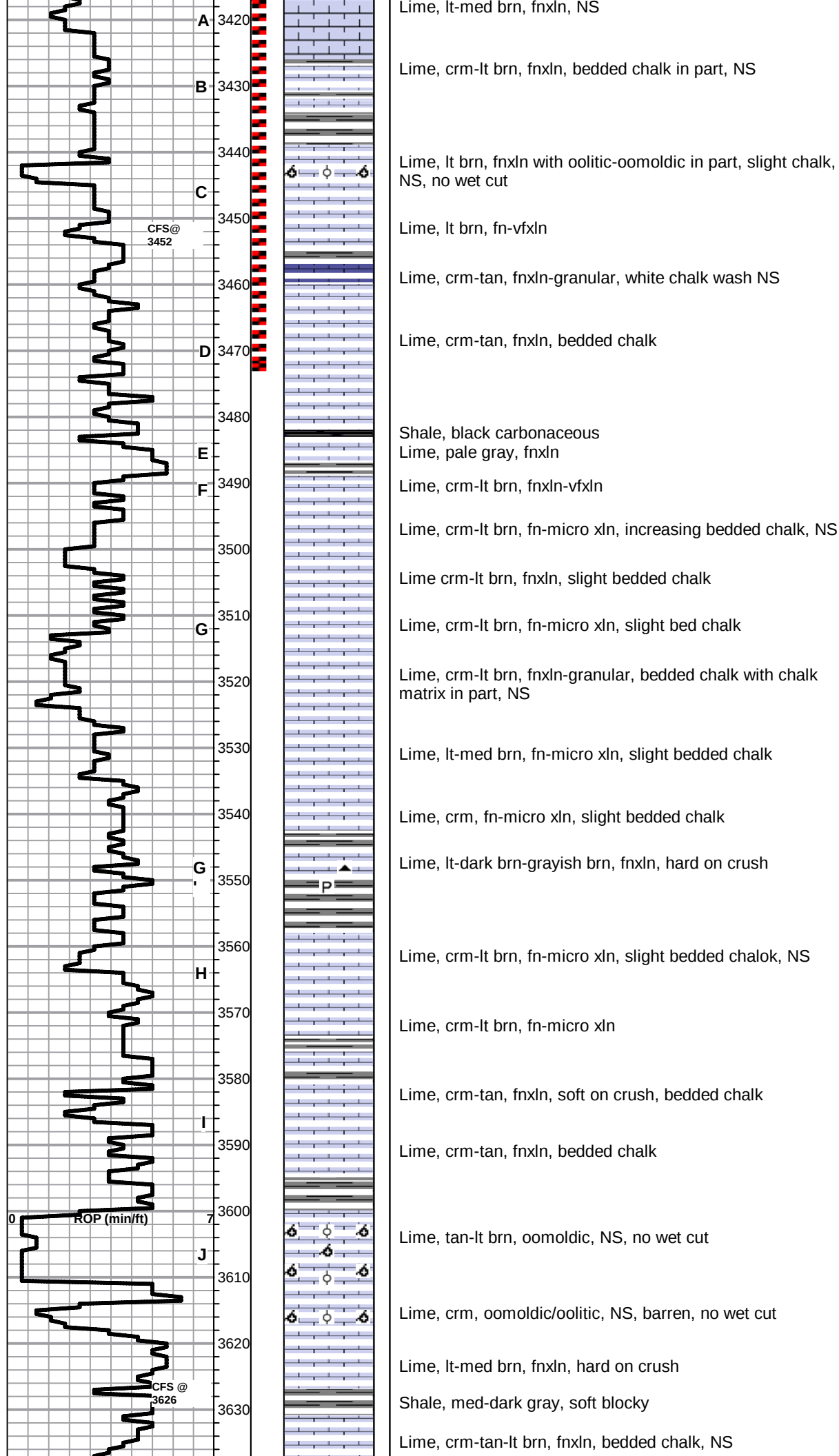
DST

- DST Int
- DST alt
- Core

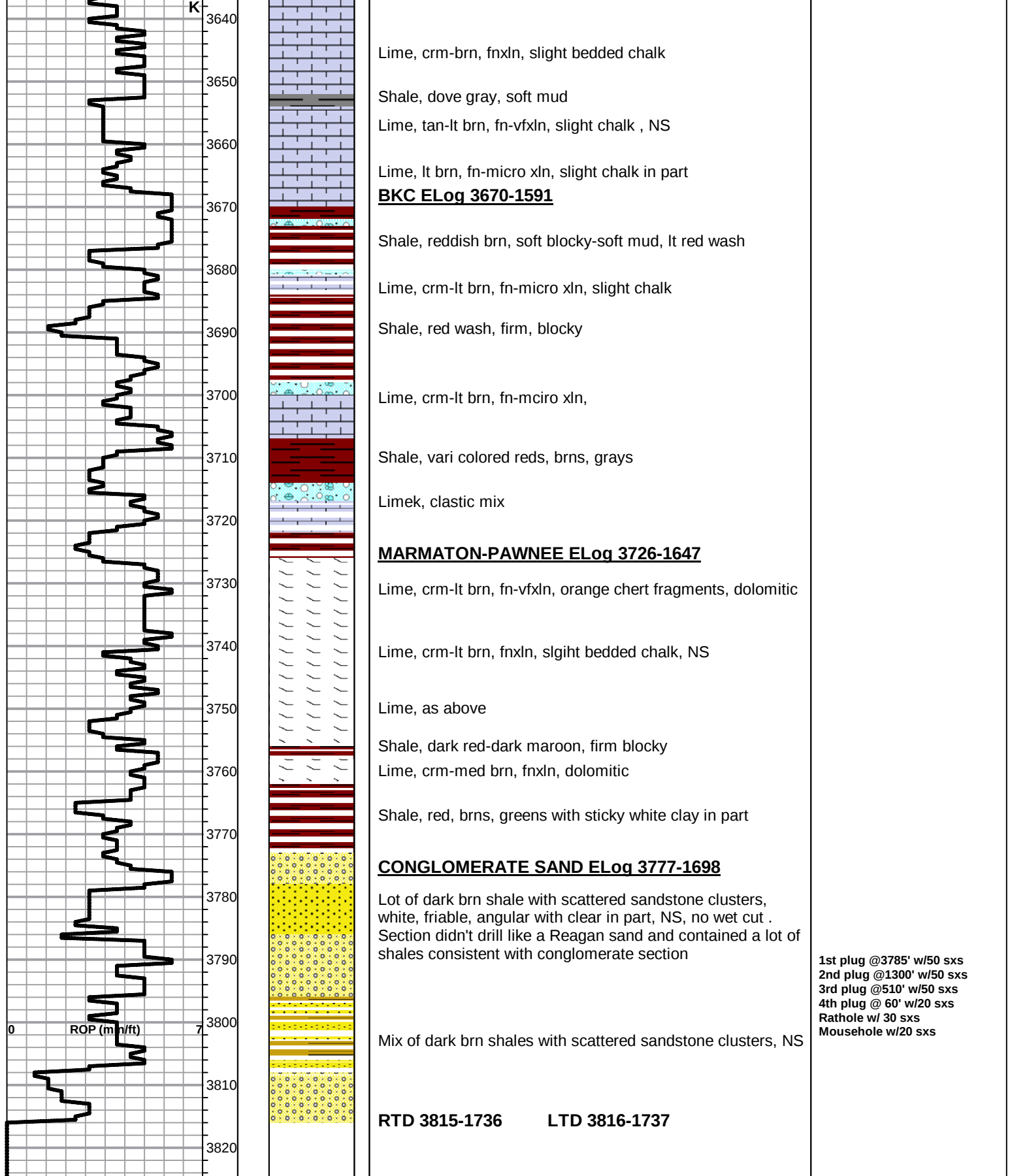








DST # 1 3400' TO 3474' SEE
HEADER FOR TEST
SUMMARY



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. 7356

Date	8-10-13	Sec.	35	Twp.	16	Range	19	County	Rush	State	KS	On Location	3:30 p.m.
Lease								Well No.		Owner			
Contractor								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		Street			
Hole Size								T.D.		State			
Csg.								Depth		City			
Tbg. Size								Depth		State			
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered			
Meas Line								Displace					
EQUIPMENT													
Pumptrk								Common					
Bulktrk								Poz. Mix					
Bulktrk								Gel.					
Bulktrk								Calcium					
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					
8 5/8 on bottom. Est. Circulation.								Sand					
Mix 150 SK & Displace								Handling					
Cement Circulated,								Mileage					
FLOAT EQUIPMENT													
Guide Shoe								Centralizer					
Baskets								AFU Inserts					
Float Shoe								Latch Down					
Pumptrk Charge								Mileage					
Signature								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. 7358

Date	8-17-13	Sec.	35	Twp.	16	Range	19	County	Rush	State	KS	On Location		Finish	1:30 A.M.
Lease								Well No.		Location					
EVANS								1		Liebenthal 35 4w. Ninto					
Contractor								Owner							
Saw this in #1								To Quality Oilwell Cementing, Inc.							
Type Job								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Rotary Plug															
Hole Size								Charge To							
2 7/8								T.D. 3815 T.D.J							
Csg.								Depth							
								Street							
Tbg. Size								City							
								State							
Tool								The above was done to satisfaction and supervision of owner agent or contractor.							
Depth															
Cement Left in Csg.								Shoe Joint							
								Cement Amount Ordered 270 60/40 40/60							
Meas Line								Displace							
EQUIPMENT								Common							
Pumptrk 17 No. Cementer								162							
Helper								Poz. Mix 108							
Bulktrk No. Driver								Gel. 10							
Bulktrk 14 No. Driver								Calcium							
Driver								Hulls							
JOB SERVICES & REMARKS								Salt							
Remarks:								Flowseal 67#							
Rat Hole 30 SK								Kol-Seal							
Mouse Hole 20 SK								Mud CLR 48							
Centralizers								CFL-117 or CD110 CAF 38							
Baskets								Sand							
D/V or Port Collar								Handling 280							
1st 3785 50SK								Mileage							
2nd 1300 50SK								FLOAT EQUIPMENT							
3rd 510 50SK								Guide Shoe							
4th 260 50SK								Centralizer							
5th 60 20SK								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge plug							
								Mileage 24							
								Tax							
								Discount							
								Total Charge							
X Signature															