

OPERATOR

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

Contact Geologist: TOM DENNING
Contact Phone Nbr: 785-628-2593
Well Name: PAULETTE # 1
Location: W2 SE SW SE Sec.T15S-R19W
API: 15-051-26,709-00-00
Pool:
State: KANSAS

Field: UNNAMED
Country: USA



Scale 1:240 Imperial

Well Name: PAULETTE # 1
Surface Location: W2 SE SW SE Sec.T15S-R19W
Bottom Location:
API: 15-051-26,709-00-00
License Number: 4787
Spud Date: 6/20/2014 Time: 3:34 PM
Region: ELLIS COUNTY
Drilling Completed: 6/25/2014 Time: 7:28 PM
Surface Coordinates: 330' FSL & 1925' FEL
Bottom Hole Coordinates:
Ground Elevation: 1947.00ft
K.B. Elevation: 1957.00ft
Logged Interval: 2800.00ft To: 3668.00ft
Total Depth: 3668.00ft
Formation: LANSING-KANSAS CITY
Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.4188651
Latitude: 38.726556
N/S Co-ord: 330' FSL
E/W Co-ord: 1925' FEL

LOGGED BY

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

Phone Nbr: 785-625-3380
Logged By: GEOLOGIST

Name: HERB DEINES

CONTRACTOR

Contractor: SOUTHWIND DRILLING, INC.
Rig #: 1
Rig Type: MUD ROTARY
Spud Date: 6/20/2014
TD Date: 6/25/2014

Time: 3:34 PM
Time: 7:28 PM

ELEVATIONS

K.B. Elevation: 1957.00ft
K.B. to Ground: 10.00ft

Ground Elevation: 1947.00ft

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON NEGATIVE RESULTS OF TWO DSTS AND LOG ANALYSIS

OPEN HOLE LOGGING BY PIONEER ENERGY SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, MICRORESISTIVITY LOG

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

FORMATION TOPS COMPARISON

	PAULETTE # 1	HERL # 2	WERTH C-3
	W2 SE SW SE	SW NW NE	SW SW SW
	SEC.22-15S-19W	SEC.27-15-19W	SEC.23-15-19W
	1947'GL 1957'KB	KB 2006'	KB 1952'
<u>FORMATION</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1156 +801	+ 806	+810
B-Anhydrite	1189 +768	+ 768	+772
Topeka	2924 -967	- 959	- 974
Heebner Sh.	3198-1241	-1235	-1238
Toronto	3217-1260	-1253	
LKC	3244-1287	-1279	-1284
BKC	3496-1539	-1537	-1536
Marmaton	3540-1583	-1564	
Conglomerate Sd	3574-1617	-1588	
Arbuckle	NOT FOUND	NR	-1622
Reagan Sand	3600-1643		
Precambrian	3666-1709		
RTD	3668-1711	-1634	-1683

SUMMARY OF DAILY ACTIVITY

6-20-14 RU, Spud 3:00 PM,
6-21-14 1155', set 8 5/8" surface casing to 1152' w/ 375sxs SMD, slope 1 1/4 degree, plug down 3:45 PM, WOC 12 Hours
6-22-14 1300', drill plug at 3:45 AM
6-23-14 2465', drilling, displaced 2793' to 2814'
6-24-14 3160', CFS 3225', short trip, CFS 3290', TOWB, DST # 1 3252' to

3290' "A"- "D" LKC, TIWB

6-25-14

3370', drilling, RTD 3668' @7:28PM, CCH, TOWB, start logging

6-26-14

3668', finish logs, straddle DST # 2 3295' to 3338' "F" LKC, TIWB, LDDP, P&A

DST # 1 TEST SUMMARY

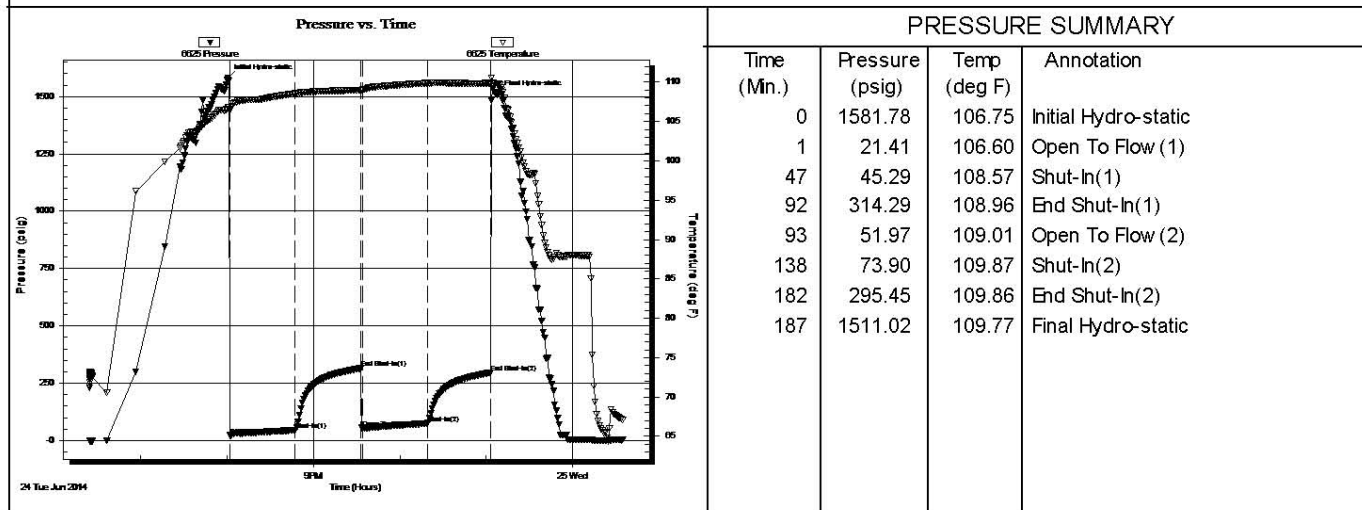
	DRILL STEM TEST REPORT	
	T.D.I. L.L.C. 1310 Bison R.D. HAYS KS. 67601 ATTN: Herb Deines	SEC. 22 - 15 s. - 19 w./ Ellis Paulette # 1 Job Ticket: 55296 DST#: 1 Test Start: 2014.06.24 @ 18:25:00

GENERAL INFORMATION:

Formation: L.K.C. "B,C,D,"		
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 20:02:00		Tester: Bob Hamel
Time Test Ended: 00:35:00		Unit No: 67
Interval: 3252.00 ft (KB) To 3290.00 ft (KB) (TVD)		Reference Elevations: 1957.00 ft (KB)
Total Depth: 3290.00 ft (KB) (TVD)		1947.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 10.00 ft

Serial #: 6625	Outside		
Press@RunDepth: 73.90 psig @	3256.00 ft (KB)	Capacity: 8000.00 psig	
Start Date: 2014.06.24	End Date: 2014.06.25	Last Calib.: 1899.12.30	
Start Time: 18:25:01	End Time: 00:35:00	Time On Btm: 2014.06.24 @ 20:01:00	
		Time Off Btm: 2014.06.24 @ 23:08:00	

TEST COMMENT: I.F. - 45 - 1/2" INT. BLOW BUILT TO (9" IN 45 MIN.)
I.S.I. - 45 - NO B.B.
F.F. - 45 - W.S.B. STARTED @ 2 MIN. BUILT TO (4" IN 45 MIN.)
F.S.I. - 45 - NO B.B.



Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
83.00	S.O.S,M,W, 2%O 48%M50%W	1.16

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
----------------	-----------------	------------------

Trilobite Testing, Inc

Ref. No: 55296

Printed: 2014.06.25 @ 08:17:50

DST # 2 STRADDLE TEST SUMMARY

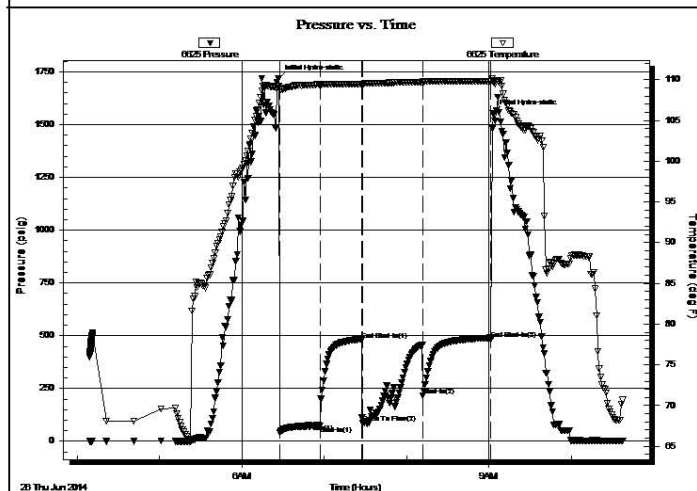
	DRILL STEM TEST REPORT	
	TDI LLC	22-15s-19w Ellis
	1310 Bison R.D. HAYS KS. 67601	Paulette # 1
	ATTN: Herb Deines	Job Ticket: 59384 DST#: 2 Test Start: 2014.06.26 @ 04:09:00

GENERAL INFORMATION:

Formation: **LKC "F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:27:30
 Time Test Ended: 10:37:30
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Phillip Gage
 Unit No: 67
 Interval: **3295.00 ft (KB) To 3338.00 ft (KB) (TVD)**
 Total Depth: 3664.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 1957.00 ft (KB)
 1947.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6625 Inside
 Press@RunDepth: 217.32 psig @ 3362.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.26 End Date: 2014.06.26 Last Calib.: 2014.06.26
 Start Time: 04:09:01 End Time: 10:37:30 Time On Btm: 2014.06.26 @ 06:27:00
 Time Off Btm: 2014.06.26 @ 09:03:00

TEST COMMENT: 30-IF-Built to 6 1/2"
 30-IS-No Return
 45-FF-Built to 2 1/4"
 45-FS-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1719.00	109.15	Initial Hydro-static
1	42.03	108.86	Open To Flow (1)
30	74.46	109.39	Shut-In(1)
60	480.75	109.43	End Shut-In(1)
61	85.88	109.49	Open To Flow (2)
105	217.32	109.75	Shut-In(2)
155	484.49	109.84	End Shut-In(2)
156	1552.27	109.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
83.00	S.O.S,M,W, 2%O 48%M50%W	1.16

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
----------------	-----------------	------------------

83.00	VSVMCM, 3%w , 97%mi	1.16
15.00	M, 100%mi	0.21

* Recovery from multiple tests

Trilobite Testing, Inc

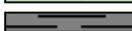
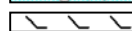
Ref. No: 59384

Printed: 2014.06.26 @ 11:05:43

Image Header 04

Image Header 05

ROCK TYPES

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

ACCESSORIES

MINERAL

- ▲ Chert, dark
- P Pyrite

OTHER SYMBOLS

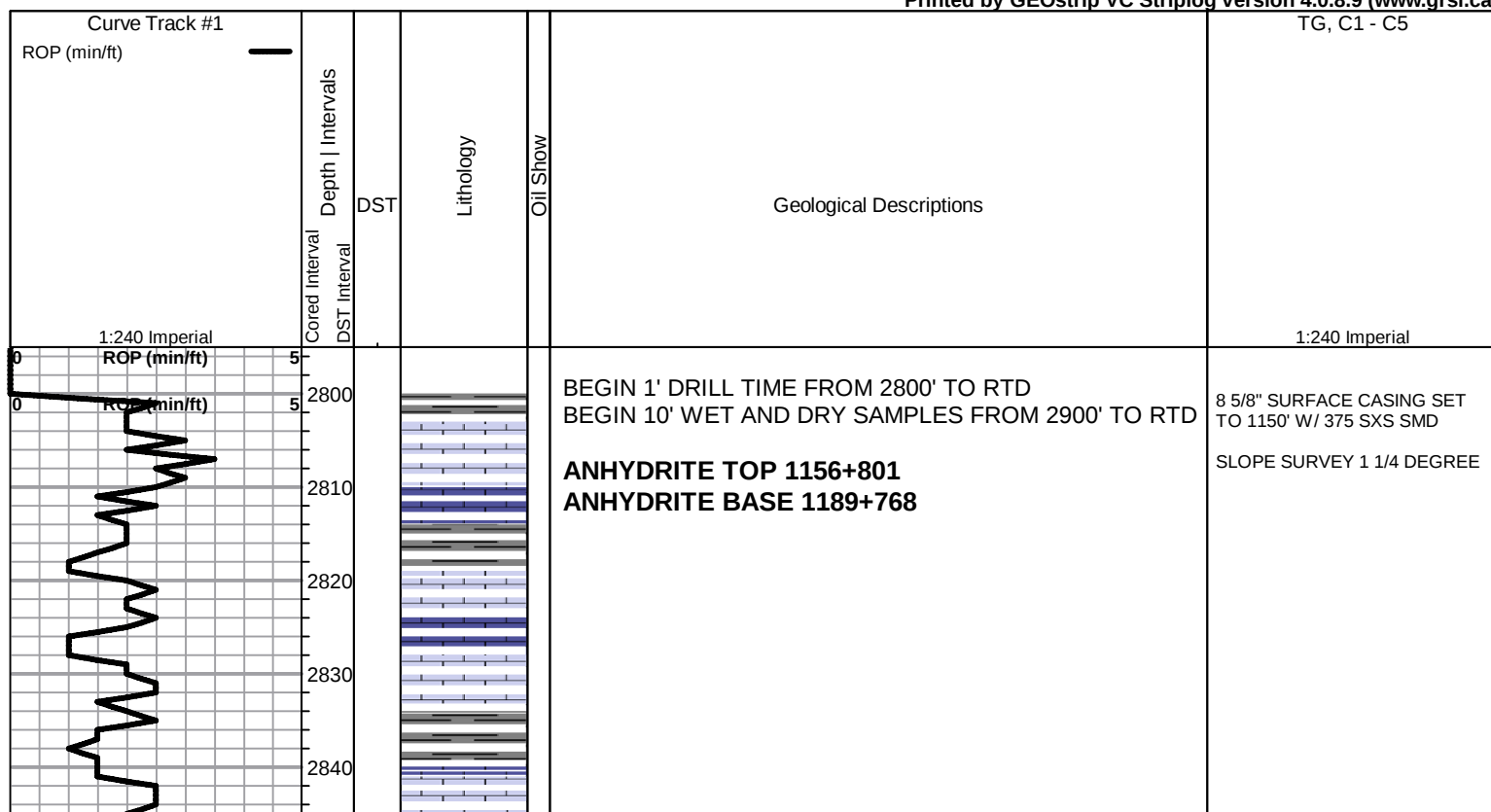
Oil Show

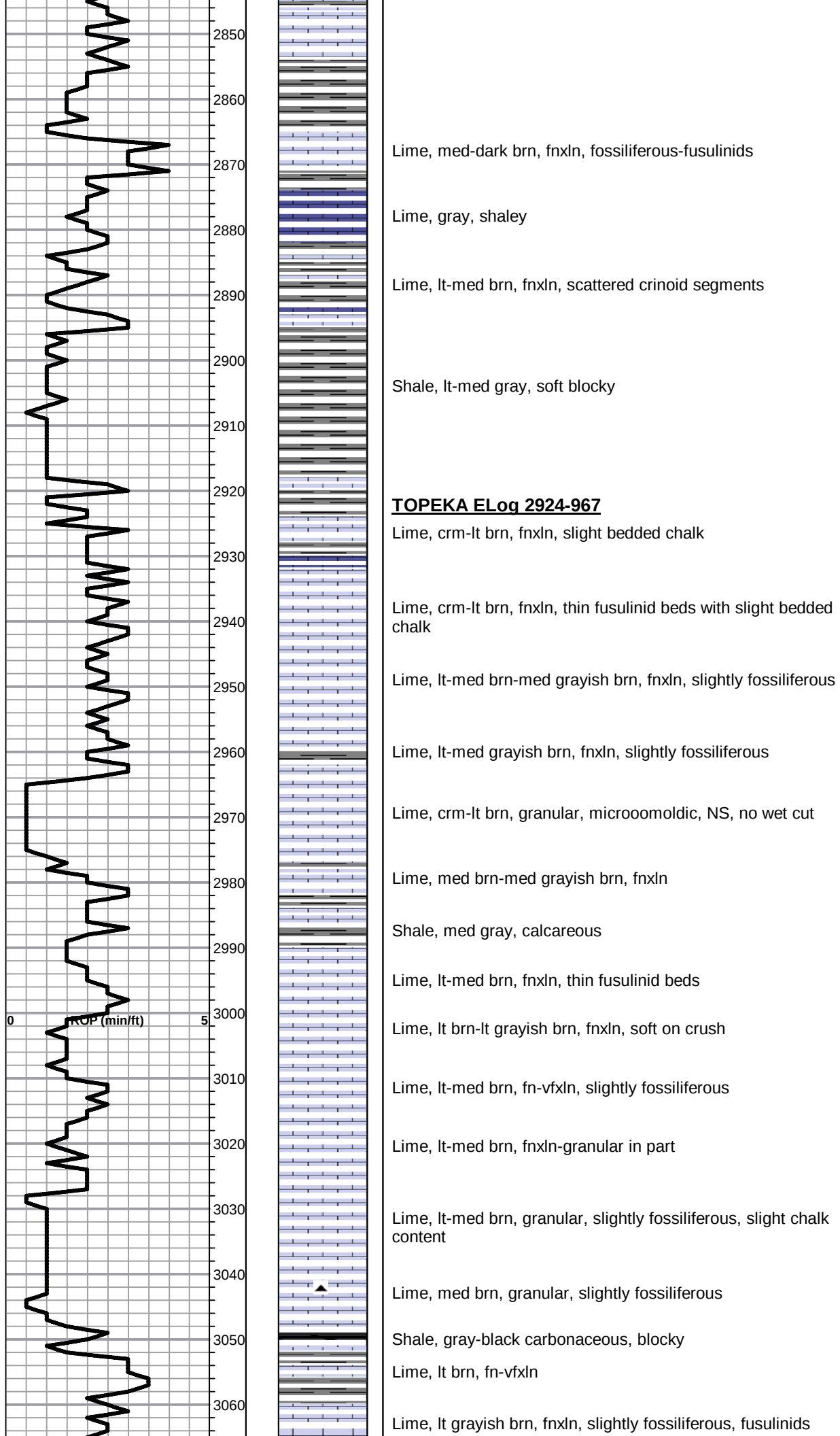
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- * Gas

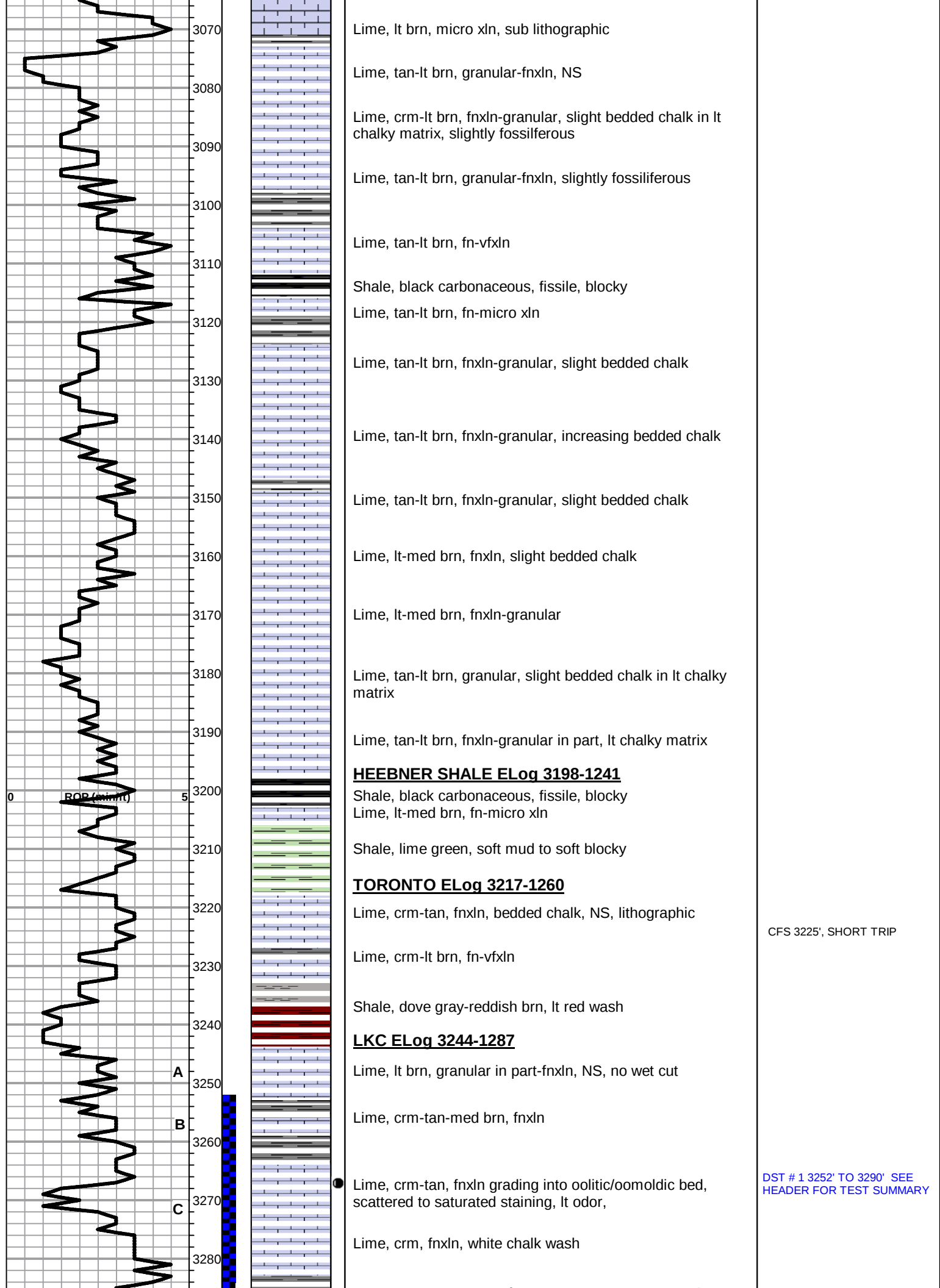
DST

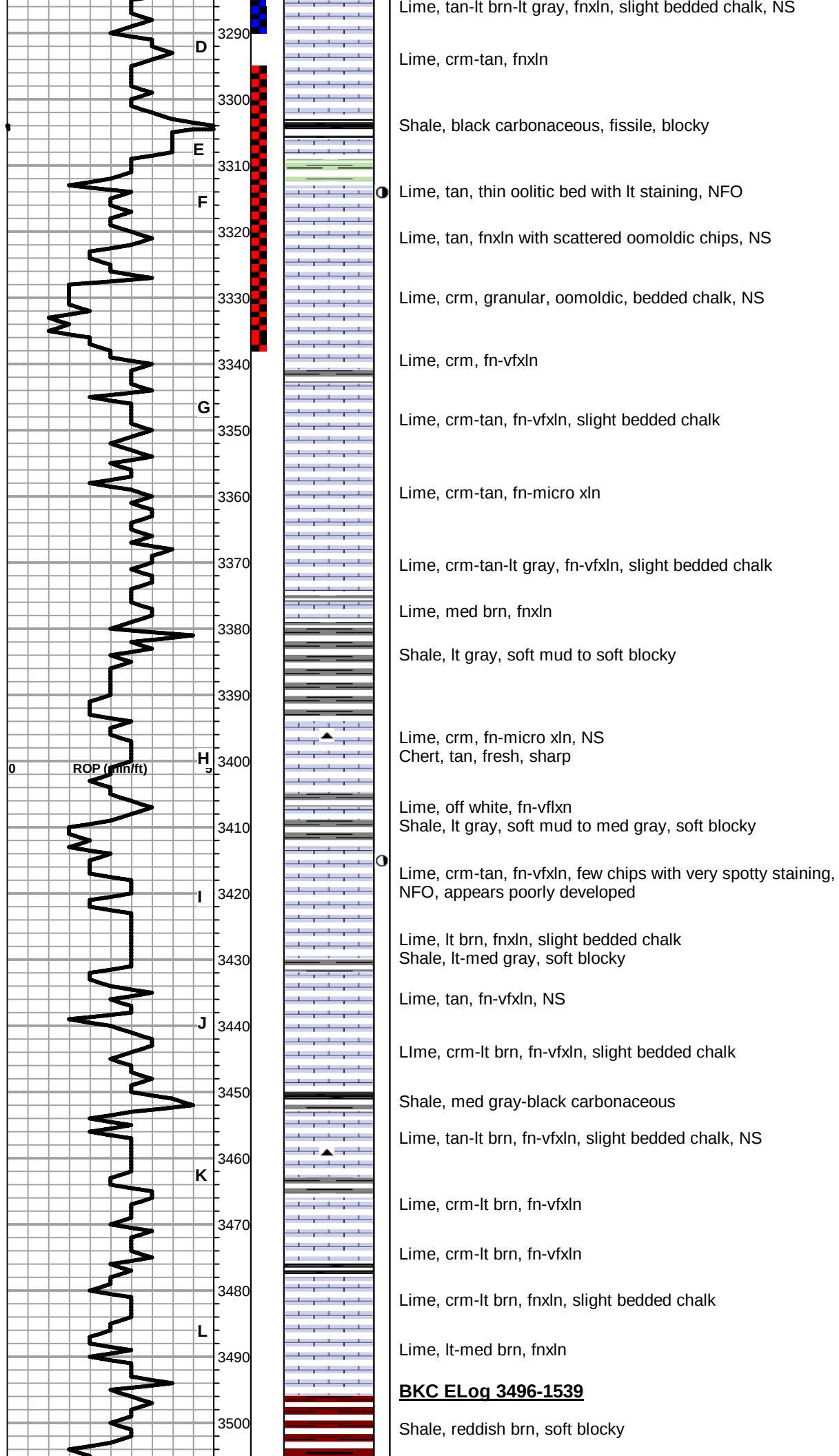
- DST Int
- DST alt
- Core
- tail pipe

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









DST # 2 STRADDLE TEST
3295' TO 3338' SEE HEADER
FOR TEST SUMMARY

BKC ELog 3496-1539

