

Timothy G. Pierce

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY	Murfín Drilling Co., Inc.			ELEVATIONS	
LEASE	Allen #1-34			KB	1847'
FIELD	Mikes Meteor			DF	
LOCATION	660' FSL & 330' FWL			GL	1836'
SEC	34	TWSP	22S	RGE	12W
COUNTY	Stafford	STATE	Kansas	Measurements Are All From Kelly Bushing	
CONTRACTOR	Murfín Drilling Rig #21			CASING	
SPUD	5-23-2014	COMP	6-02-2014	CONDUCTOR	
RTD	3881	LTD	3886	SURFACE	9-5/8" at 308'
MUD UP	2490	TYPE MUD	Chemical	PRODUCTION 5-1/2" at	
SAMPLES SAVED FROM	2700	TO	RTD	ELECTRICAL SURVEYS	
DRILLING TIME KEPT FROM	580-660	TO	RTD	DIL, CN/D, Sonic, Micro	
SAMPLES EXAMINED FROM	2700	TO	RTD	Dipole Sonic - Halliburton	
GEOLOGICAL SUPERVISION FROM	2850 to RTD				
GEOLOGIST ON WELL	Tim Pierce				
FORMATION TOPS	ELECTRIC LOG	SAMPLE			
Anhydrite	620 (+1227)	624 (+1223)			
Base/Anhydrite	639 (+1208)	643 (+1204)			
Topeka LS	2788 (-941)	2785 (-938)			
Heebner Sh.	3155 (-1308)	3152 (-1305)			
Lansing	3289 (-1442)	3286 (-1439)			
Stark Sh.	3504 (-1657)	3505 (-1658)			
Viola	3626 (-1779)	3624 (-1777)			
Arbuckle	3736 (-1889)	3762 (-1915)			
API # 15-185-23,873					

REMARKS

Drilled 8-3/4" hole to allow for coring.

The well was cored from 3594' to 3716'. The core barrel was then cut into smaller sections and removed from location. The rock was not examined for rock type, porosity, or oil shows except at the cut ends of each section of the core barrel. Cuttings were examined at 10' intervals during the core process attempting to determine lithology, formation tops, etc

A drill stem test covering the cored interval indicated a probable productive zone in the Viola.

A drill stem test covering the upper KC (B thru F zones) proved non commercial, slight shows in the J and K zones of the KC were not tested. A slight show in the Arbuckle was not tested as well.

There were no other zones of interest indicated by sample examination or electric logs.

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LEGEND



DRILLING TIME IN
MINUTES PER FOOT

Rate of Penetration Decreases →

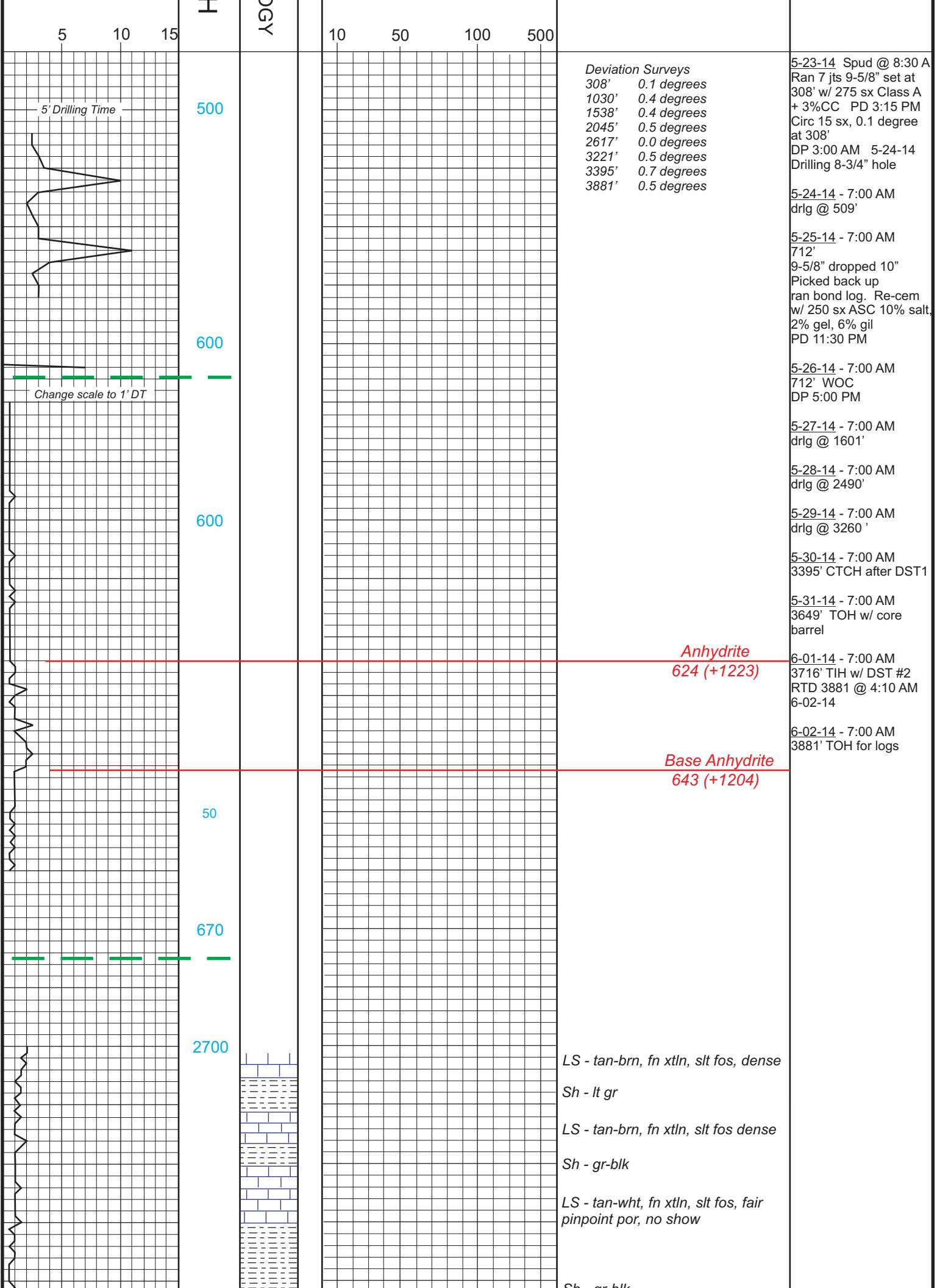
GAS SCALE

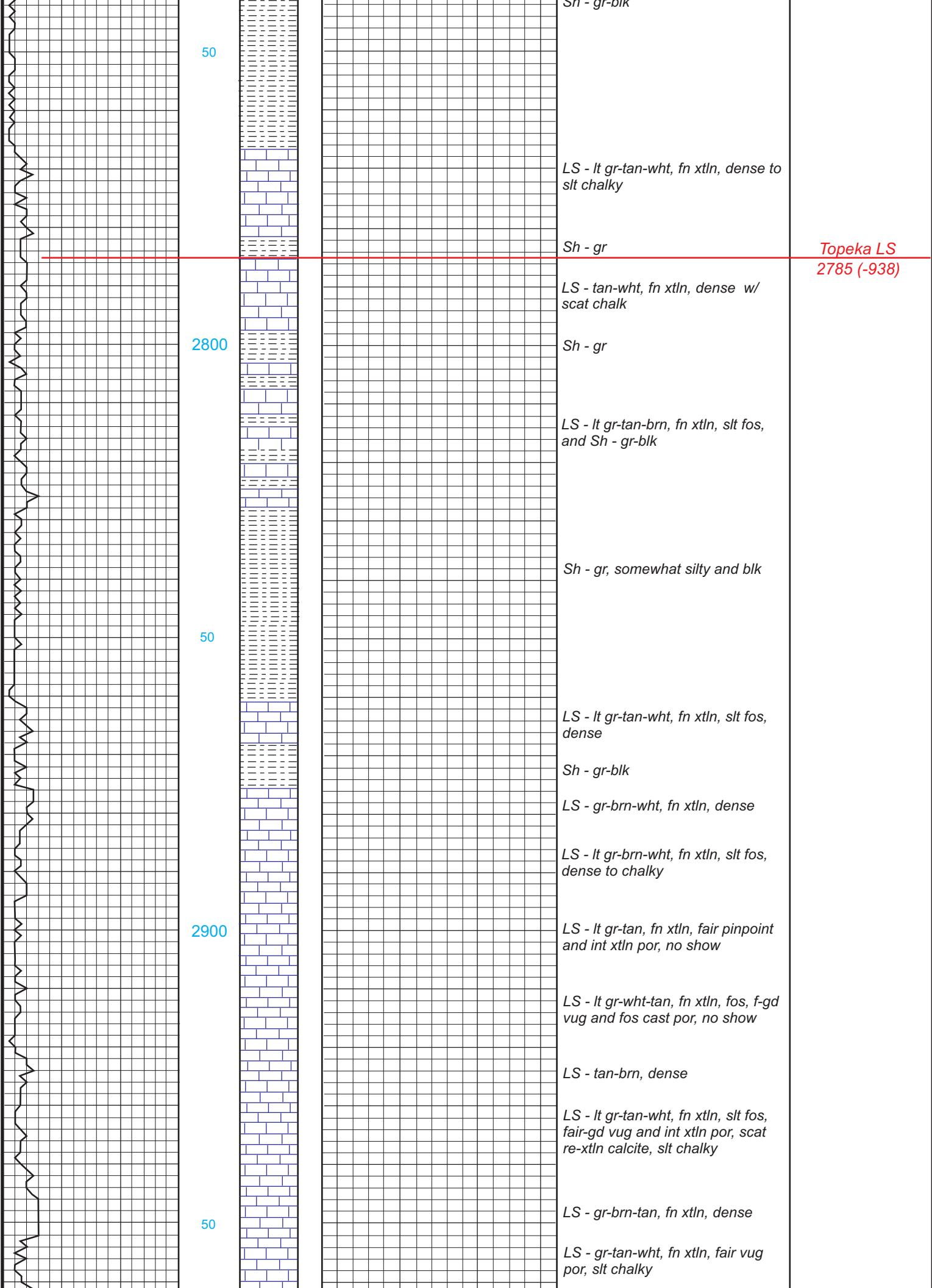
SAMPLE DESCRIPTION

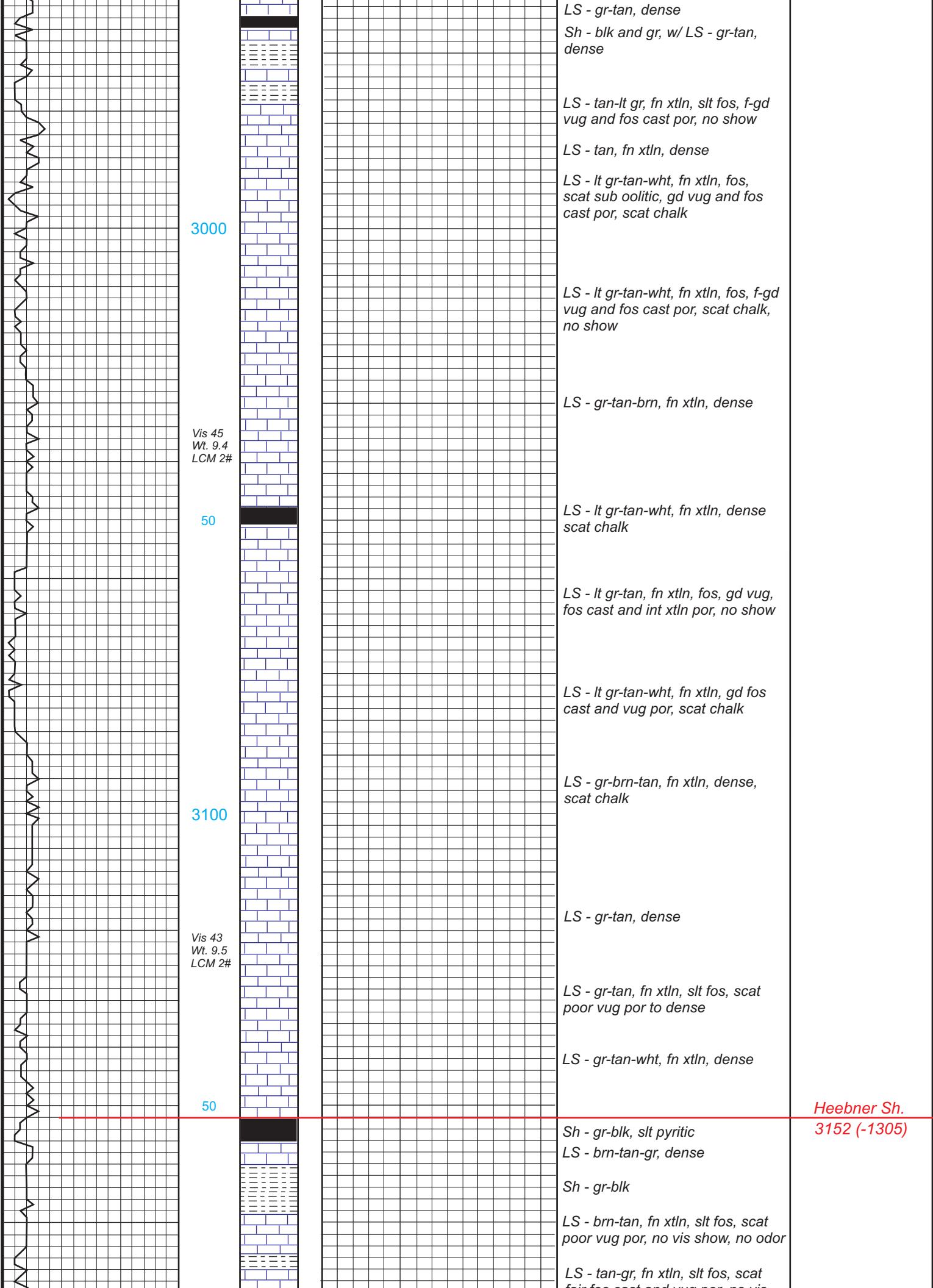
REMARKS

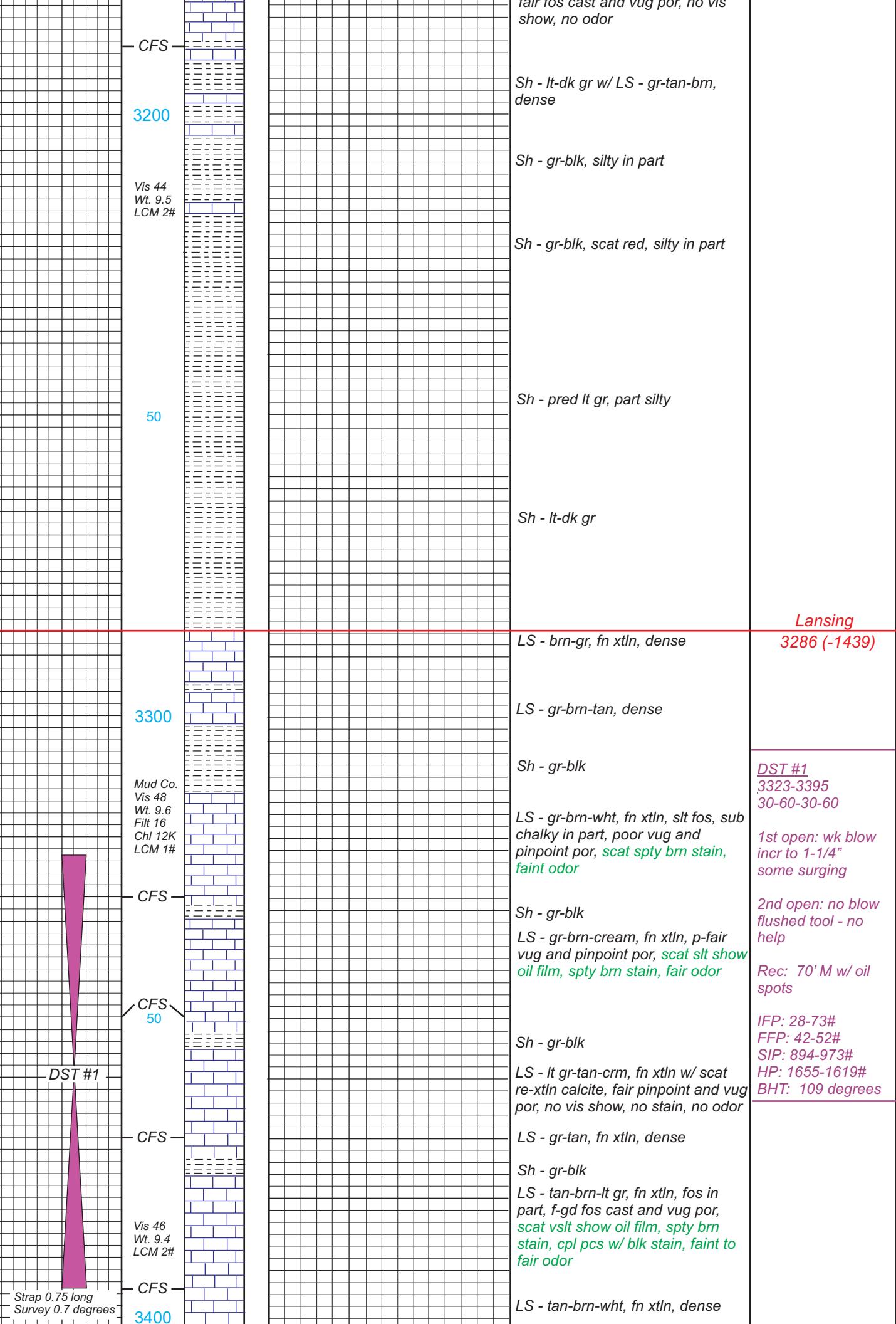
DEPTH

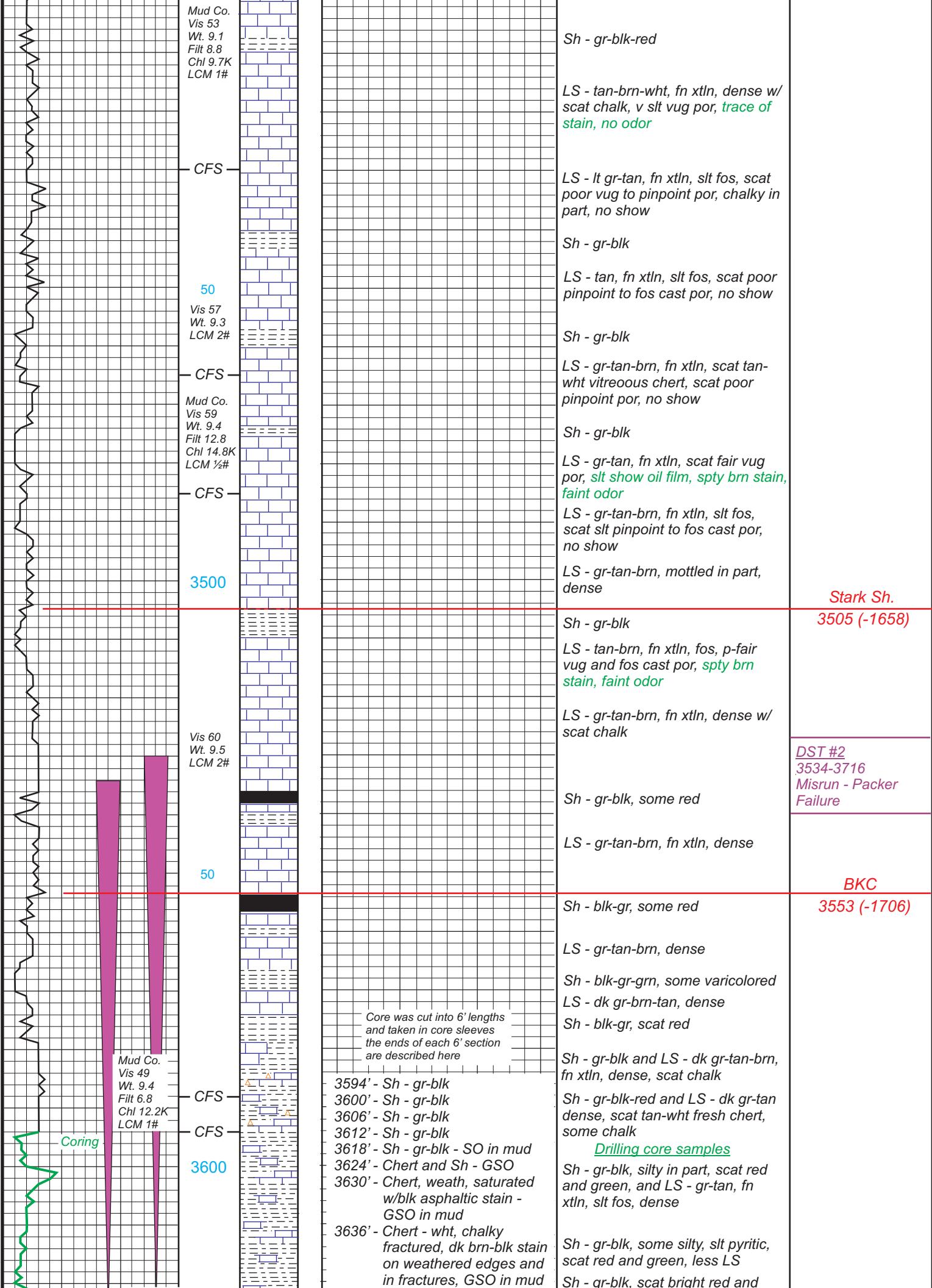
LITHOLOGY

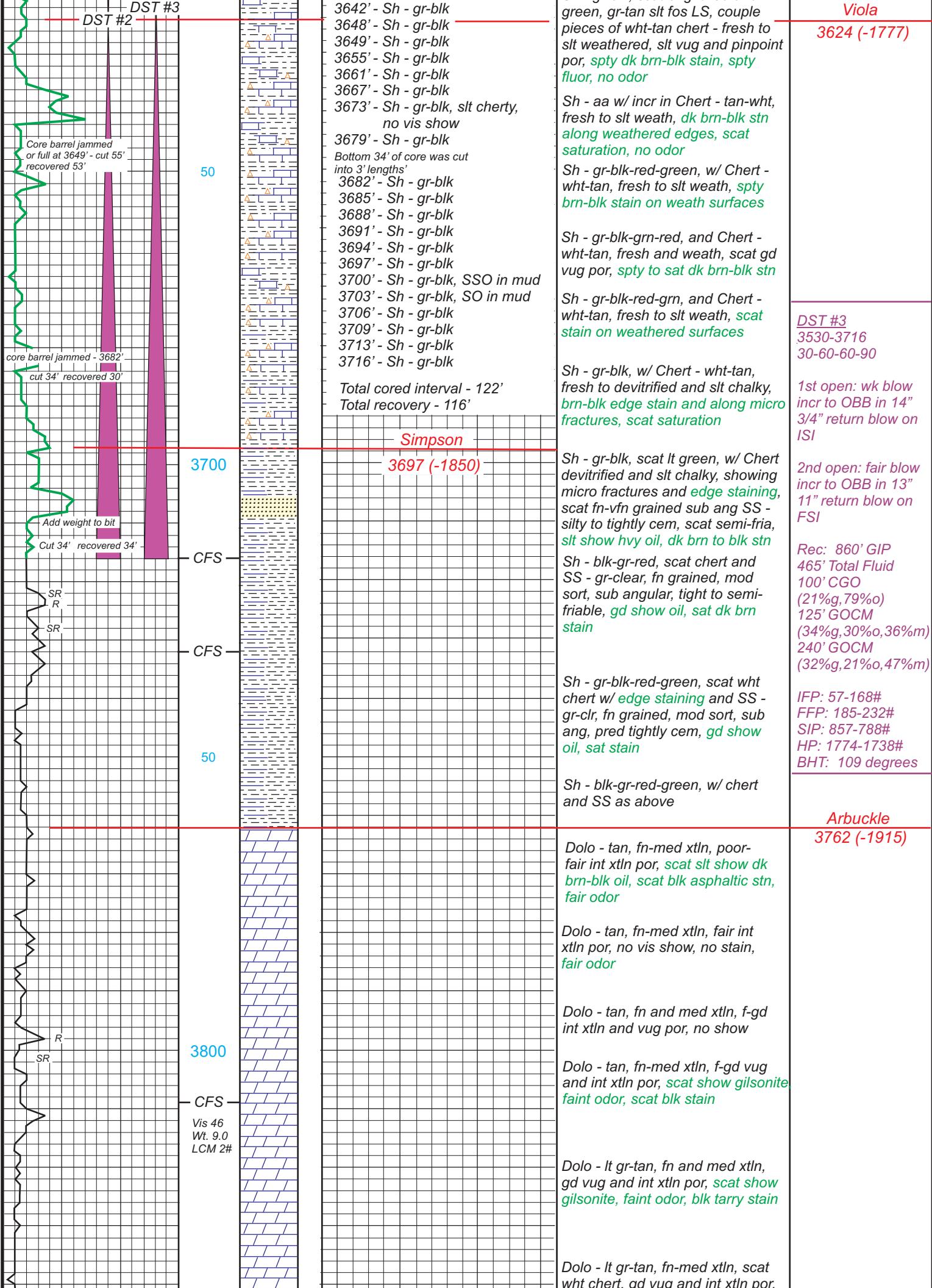


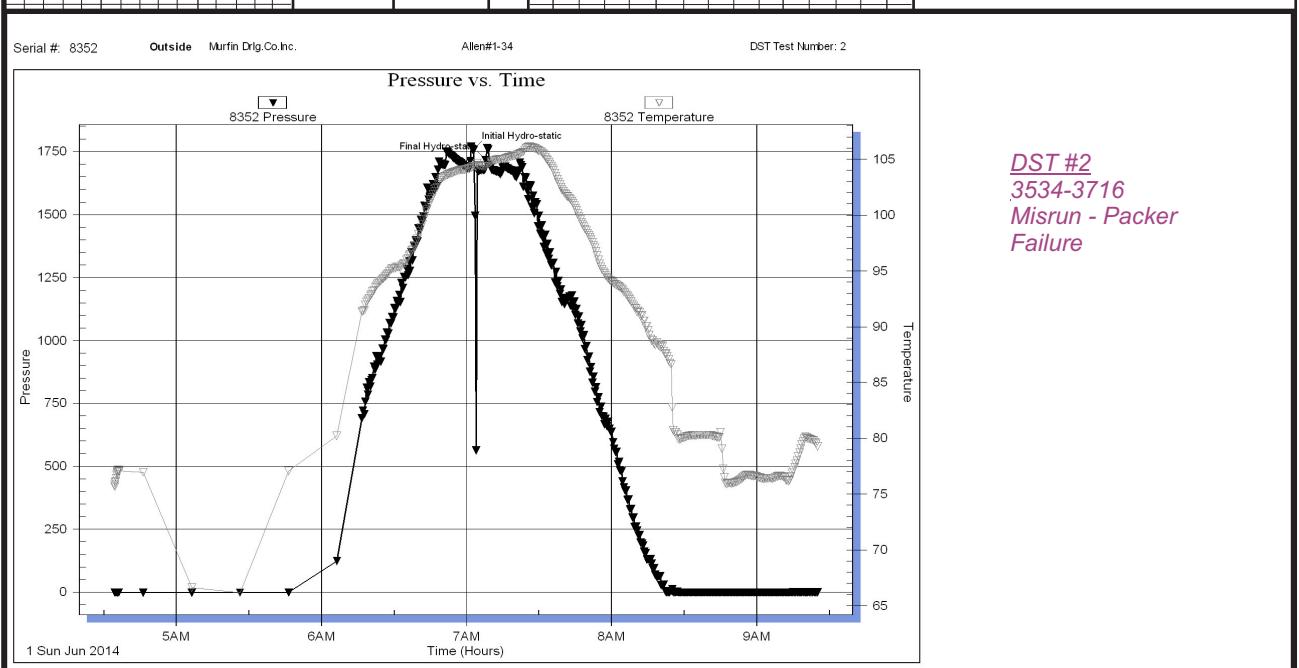
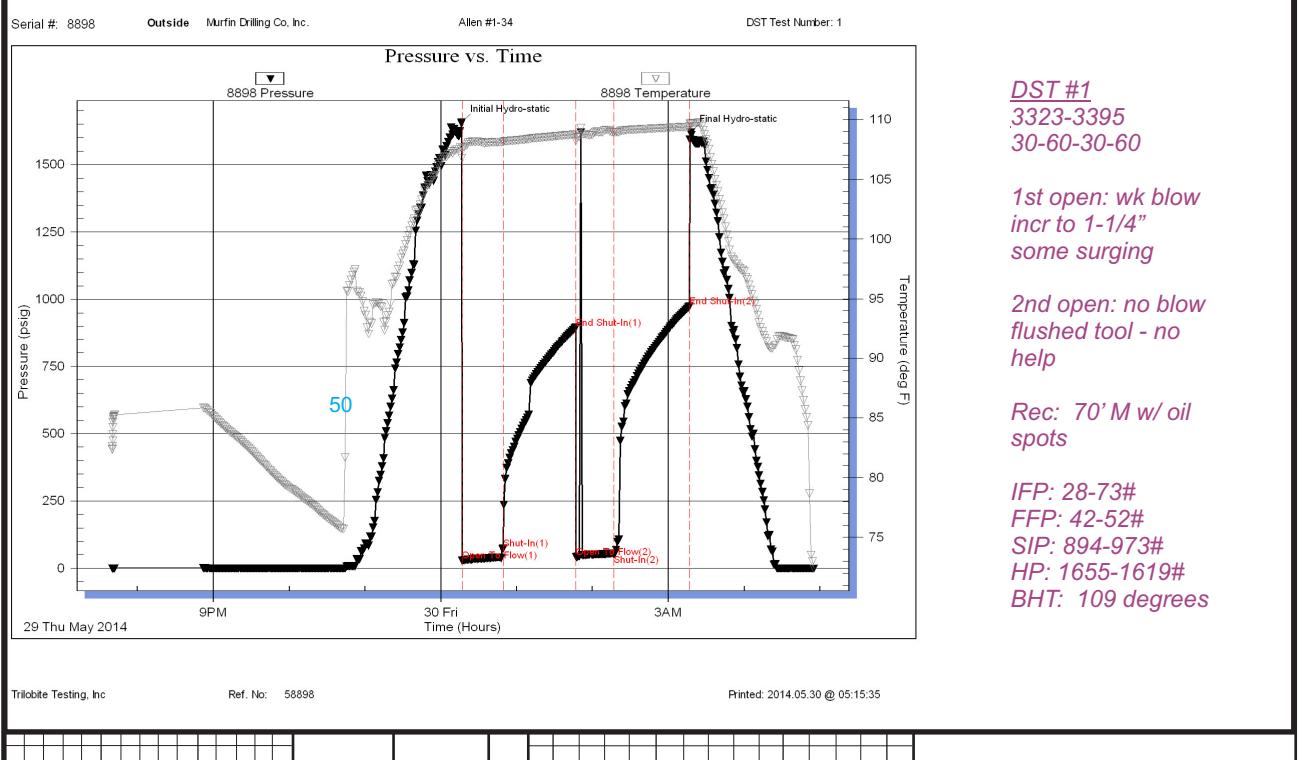
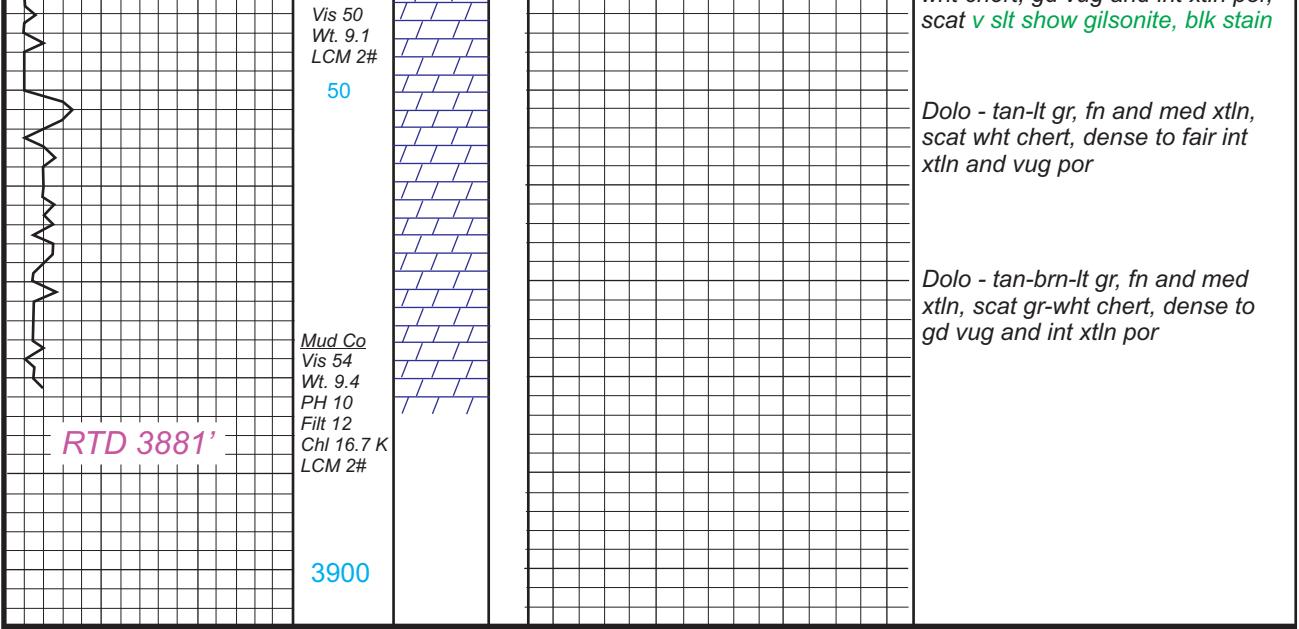












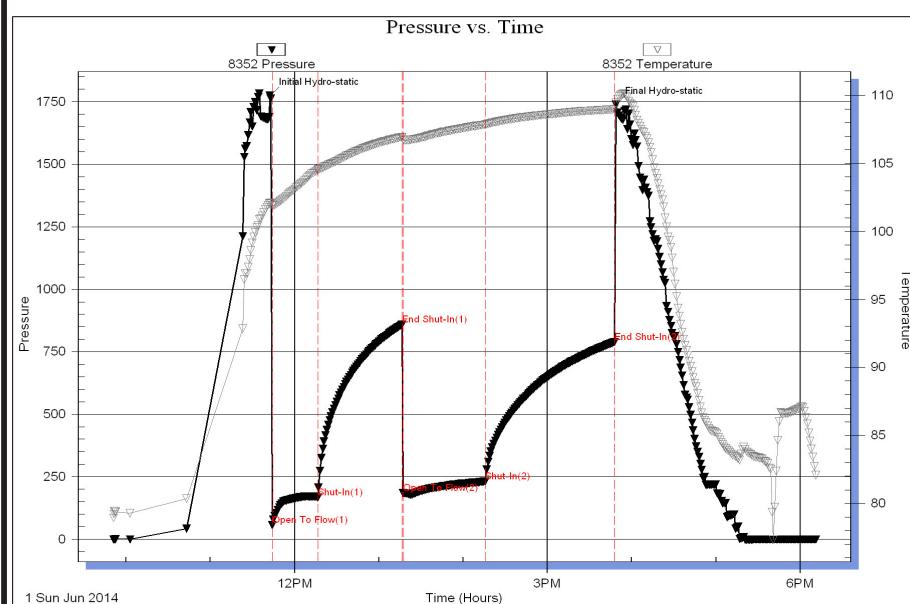
Serial #: 8352

Outside Murfin Drig Co.Inc.

Allen#1-34

DST Test Number: 3

DST #3
3530-3716
30-60-60-90



1st open: wk blow
incr to OBB in 14"
3/4" return blow on
ISI

2nd open: fair blow
incr to OBB in 13"
11" return blow on
FSI

Rec: 860' GIP
465' Total Fluid
100' CGO
(21%g,79%)
125' GOCM
(34%g,30%o,36%m)
240' GOCM
(32%g,21%o,47%m)

IFP: 57-168#
FFP: 185-232#
SIP: 857-788#
HP: 1774-1738#
BHT: 109 degrees

