Perf-Tech Wireline Services

COMPANY	LIBERTY OPERATING & COMPLETIONS INC.
WELL	CARLSON 1H
FIELD	WILDCAT
COUNTY	MCKENZIE
STATE	NORTH DAKOTA
API #	33-053-06044
LOCATION	SEC 11 T153N R100W
ELEVATION	KB: 2,000 GL: 1,975
SPUD	10-Jan-2014
TD	20,500
CASING	9.625 @ 2,100
LOGGED	11-Jan-2014
RIGS	NABORS
RUN NO.	ONE
DATE	11-Jan-2014
TYPE LOG	CBL/VDL/GR/CCL
BOTTOM LOG INTERVAL	20,500
TOP LOG INTERVAL	1,750
CASING FOR CBL	9.625 @ 2,100
BIT SIZE	8.75
FLUID IN HOLE	OBM
DENSITY	9.6
VISCOSITY	65
PH	
FLUID LOSS	
SOURCE OF SAMPLE	PUMPED
RM @ MEASURED TEMP	
RMF @ MEASURED TEMP	
RMC @ MEASURED TEMP	
SOURCE RMF / RMC	
RM @ BHT	
TIME CIRC. ENDED	07:00
TIME LOGGER ON BOTTOM	11:00
MAX. RECORDED TEMP.	210
LOGGER	5
BOTTOM INTERVAL	20,500
TYPE FLUID IN HOLE	OBM
DENSITY / VISCOSITY	9.6 / 65
PH /