

LOUIS DREYFUS NATURAL GAS
TORO 33 ST #1
TOOL STRING SCHEMATIC

TOOL DESCRIPTION	OD	ID	LENGTH	DEPTH
SURFACE FLOWHEAD				0
DRILL PIPE (16.6#)	4.50	3.826	12329	12329
DRILL COLLARS	6.50	3.250	455	12784
PUMPOUT DISK REVERSING VALVE	6.00	3.250	1.19	12785.19
DRILL COLLARS	6.25	2.250	93.07	12878.26
BREAKOFF PIN REVERSING VALVE	6.19	3.125	0.86	12879.12
DRILL COLLARS	6.50	2.250	93.22	12972.34
CROSS OVER SUB	6.00	2.000	0.93	12973.27
MFE	5.00	1.000	9.88	12983.15
MFE OR BYPASS	5.00	1.000	2.98	12986.13
O&O HYDRAULIC BAR	4.75	1.875	6.59	12992.72
SAFETY JOINT	4.75	2.500	2.46	12995.18
BIB TAIL PACKER	7.00	1.500	6.19	13001.37
BIB TAIL PACKER	7.00	1.500	4.63	13006
PERFORATED ANCHOR	4.75	2.250	22.59	13028.59
INSIDE RECORDER CARRIER	4.88	1.500	5.91	13034.5
CROSS OVER SUB	6.00	2.750	0.63	13035.13
DRILL COLLARS	6.50	2.250	276.7	13311.83
BIT SUB	6.50	2.250	2.67	13314.5
CROSS OVER SUB	6.88	2.500	1.59	13315.09
PERFORATED ANCHOR	4.75	2.250	1.00	13316.09
OUTSIDE RECORDER CARRIER	4.88	1.500	5.91	13322

Report Number: 1137281
Well Number: 1137281
Test Date: 01-FEB-1999

ILLEGIBLE

Schlumberger