[redacted]

B FLEMM 407-2/9-2

Century WIRELINE SERVICES

DUAL INDUCTION

101 DA-07-35N-33W (LONG 1)

COMPANY	CENTURY WIRELINE SERVICES		
WELL	101CAA-07-35N-33W (LONG 1)		
FIELD	LONG		
COUNTY	VERNON	OTHER SERVICES	
STATE	OKLAHOMA	GR	
LOCATION	SW-NW	DIL	
API NO.			
SECTION	7		
TOWNSHIP	35N		
RANGE	33W		
PERMANENT DATUM	GL		
LOG MEASURED FROM	KB		
DRILLING MEASURED FROM	GL		
ELEVATION	KB: NA	DF: NA	GL: 827
DATE	09/14/07		
RUN NO.	ONE		
DEPTH-DRILLER	9540		
BIT SIZE	4.5		
LOG TOP	SURFACE		
CASING SIZE	9.40		
CASING WEIGHT	36.40		
CASING BOTTOM	NA		
CASING TYPE	STEEL		
MAX TEMPERATURE	NA		
MUD TYPE	NA		
MUD DENSITY	NA		
MUD RESISTIVITY	NA		
MEASURED BY	LONG		
RECORDED BY	K RUMMELS		
REMARKS 1			
REMARKS 2			

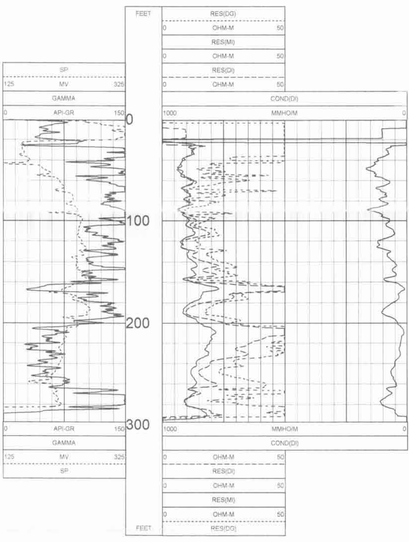
ELEVATION GL 827

ALL SERVICES PROVIDED SUBJECT TO CENCO TERMS AND CONDITIONS

2 INCH LOG, DUAL INDUCTION 101/CAA-07-35N-33W (LONG 1) 09/14/07

LOG PARAMETERS

MATRIX DENSITY	2.65	NEUTRON MATRIX	SANDSTONE	MATRIX DELTA T	54
MAGNETIC DECL	0	ELECT. CUTOFF	2500	BIT SIZE	4.5
PRESENTATION NAME/DATE =	1 Tulsa DIL Mud Drilled DG 2 Inch 0 07/30/2005			VERSION = 3.64EN	



2 INCH LOG, DUAL INDUCTION 101/CAA-07-35N-33W (LONG 1) 09/14/07

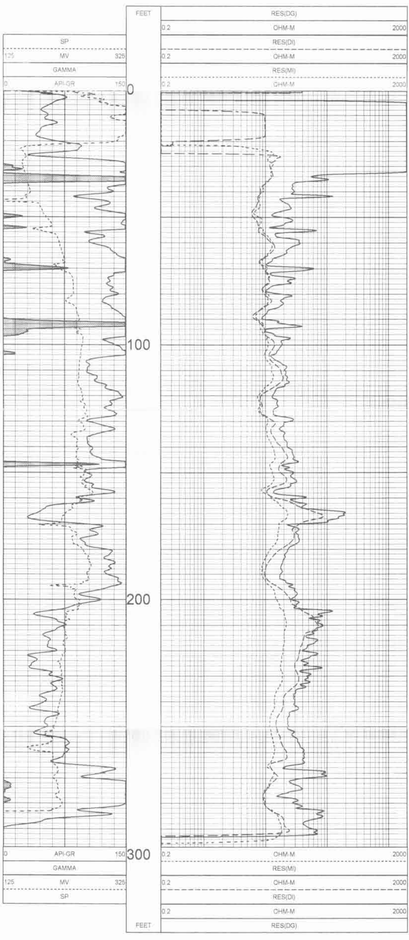
LOG PARAMETERS

MATRIX DENSITY	2.65	NEUTRON MATRIX	SANDSTONE	MATRIX DELTA T	54
MAGNETIC DECL	0	ELECT. CUTOFF	2500	BIT SIZE	4.5
PRESENTATION NAME/DATE =	1 Tulsa DIL Mud Drilled DG 2 Inch 0 07/30/2005			VERSION = 3.64EN	

5 INCH LOG, DUAL INDUCTION 101/CAA-07-35N-33W (LONG 1) 09/14/07

LOG PARAMETERS

MATRIX DENSITY	2.65	NEUTRON MATRIX	SANDSTONE	MATRIX DELTA T	54
MAGNETIC DECL	0	ELECT. CUTOFF	2500	BIT SIZE	4.5
PRESENTATION NAME/DATE =	9540.5 INCH MUD SP GR GD 0 10/08/2006			VERSION = 3.64EN	



5 INCH LOG, DUAL INDUCTION 101/CAA-07-35N-33W (LONG 1) 09/14/07

LOG PARAMETERS

MATRIX DENSITY	2.65	NEUTRON MATRIX	SANDSTONE	MATRIX DELTA T	54
MAGNETIC DECL	0	ELECT. CUTOFF	2500	BIT SIZE	4.5
PRESENTATION NAME/DATE =	9540.5 INCH MUD SP GR GD 0 10/08/2006			VERSION = 3.64EN	

TOOL CALIBRATION 101/CAA-07-35N-33W (LONG 1) 09/14/07 15:10
TOOL 9540 TM VERSION 5
SERIAL NUMBER 1370

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep05.07	19:28:41	COND(D)	19.000	MMHO/M	13341.00	[CPS]
	Sep05.07	19:28:41	COND(D)	130.000	MMHO/M	19824.00	[CPS]
2	Sep05.07	19:28:22	COND(M)	19.000	MMHO/M	22603.00	[CPS]
	Sep05.07	19:28:22	COND(M)	130.000	MMHO/M	43441.00	[CPS]
3	Sep05.07	19:27:54	RES(BN)	0.000	OHM-M	10087.00	[CPS]
	Sep05.07	19:27:54	RES(BN)	1000.000	OHM-M	112254.00	[CPS]
4	Sep05.07	19:27:27	RES(32N)	0.000	OHM-M	13514.00	[CPS]
	Sep05.07	19:27:27	RES(32N)	1000.000	OHM-M	115891.00	[CPS]
5	Sep14.07	15:46:30	SP	0.000	MV	60126.00	[CPS]
	Sep14.07	15:46:30	SP	400.000	MV	117515.00	[CPS]
6	Jun12.07	11:56:35	A	Default	[CPS]		
7	Jun12.07	11:56:39	B	Default	[CPS]		
8	Jun12.07	11:56:44	X	Default	[CPS]		
9	Jun12.07	11:56:48	Y	Default	[CPS]		