217-22376

Tucker
WIRELINE SERVICES

DUAL INDUCTION RESISTIVITY LOG

RELEASED
! ~~CONFIDENTIAL~~
until 10-22-10

File No. : TUL-54815
Company : RUNNING FOXES PETROLEUM, INC.
Well : EMMERSON #12-6B-3
Field : WILDCAT
County : VERNON
State : MISSOURI
Country : U.S.A.

RECEIVED
OCT 22 2009
Mo Oil & Gas Council

Location : PERMIT # 22376
2180' FSL & 200' FWL
NW SW SW

Sect : 06 Twp : 36N Rge : 33W

Recorded By : R. FRANKLIN
Witnessed By : G. BRATTON

Date : JUL 09 2009
Run No. : 1

Permanent Datum :	GL	
Drilling Measured From :	GL	
Log Measured From:	GL	
Above Permanent Datum :	0.00	FT
Depth--Driller :	408.0	FT
Depth--Logger :	408.0	FT
Bottom Log Interval :	407.0	FT
Top Log Interval :	24.0	FT
Casing Depth--Driller:	20.0	FT
Casing Depth--Logger :	24.0	FT
Casing Diameter :	8.625	IN
Bit Size	5.875	IN

Unit No. : 123
Location TULSA

Elevations :

KB :		FT
DF :		FT
GL :	865.00	FT

Additional Services

CNT
LDT

The customer is hereby warned that by providing the log data herein, T. W. S. does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. T. W. S. does not guarantee or warrant either expressly or impliedly, the accuracy of any interpretation of log data, conversion of log data to physical rock parameters or recommendations which may be given by T. W. S. personnel. Any interpretation, conversion or recommendation is not part of the consideration for the agreement between the parties and is not part of any part of the charge by T. W. S. for its services. Any user of the log data is warned that said user is not entitled to rely on intepretations, conversions or recommendations as aforesaid.

Run Number 1

Depth To Fluid	0.0	FT
Fluid Type In Hole :	FRESH / NATIVE	
Dencity :	0.000	LBS/GAL
Viscosity :	0.000	SEC
pH :	0.000	
Fluid Loss :	0.000	CC
Salinity :	0.000	

RM Source :	MEASURED			
RM :	10.000	OHMM at	83	F
RM at BHT :	10.978	OHMM at	75	F
RMF Source :	CALCULATED			
RMF :	8.500	OHMM at	83	F
RMF at BHT :	9.330	OHMM at	75	F
RMC Source :	CALCULATED			
RMC :	11.500	OHMM at	83	F
RMC at BHT :	12.625	OHMM at	75	F
Max Recorded Temp. :			75	F
Time Circulation Stopped :				
Operating Rig Time, Hrs. :			1.5	

- Source Serial Numbers -

Gamma	2991GW
Neutron	N-1046

- Sonde Serial Numbers -

GRTB	GRT-BC-41
CNT	CNP-AA-112
LDT	LDP-BA-14
PIT B	PIT-BA-21

Casing Strings

Size (IN)	Weight (LB/FT)	Bottom (FT)
8.625	40.00	20.00

- Comments -

ALL PRESENTATIONS AS PER CUSTOMER REQUEST.

GRT, CNT, LDT, PIT RAN IN COMBINATION
CALIPERS ORIENTED ON THE X-Y AXIS.
PHIN IS CALIPER CORRECTED.
2.71 G/CC USED TO CALCULATE POROSITY.
ANNULAR HOLE VOLUME CALCULATED USING 2.875" PRODUCTION CASING.

GRT: GRP.
CNT: PHIN, CLCNIN.
LDT: PORL, LCOR, PECL, CLLDIN, LDEN, PORLLS.
PIT: ILD, ILM, CIRD, SFLAEC, SPU

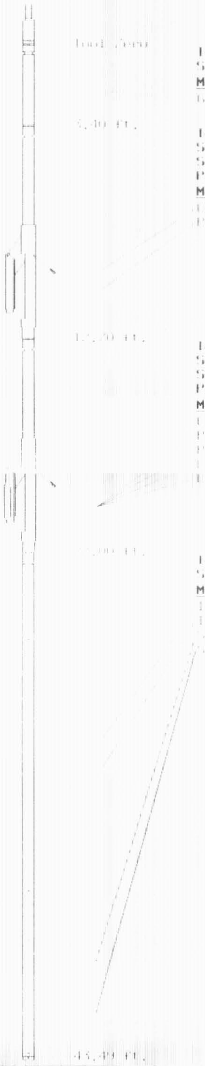
OPERATORS:

S. DAVIS
J. COLWILL

THANK YOU FOR USING TUCKER WIRELINE SERVICES!

Tool String Schematic

Total Tool Length 43.49 ft.
Maximum Outside diameter 4.80 in.
Net Weight in Air 243.00 lbs.



Tool: GRTB **Length:** 3.40 **ft., O.D.:** 3.63 **in.**
Sonde ID : GRT BG 41

Measure Point	Stack Offset	Tool Offset	Bottom Offset
GRP	2.00	2.00	41.49

Tool: CNT **Length:** 9.30 **ft., O.D.:** 4.50 **in.**
Sonde ID : CNP 66 112
Source ID : N 1046
Pad ID : CNP 66 112

Measure Point	Stack Offset	Tool Offset	Bottom Offset
LTCN	9.40	6.00	34.09
PHIN	10.24	6.84	33.25

Tool: LDT **Length:** 9.30 **ft., O.D.:** 4.80 **in.**
Sonde ID : LDP BG 14
Source ID : 2991GW
Pad ID : LDP BG 14

Measure Point	Stack Offset	Tool Offset	Bottom Offset
LTTD	18.70	6.00	24.79
PE	19.94	7.24	23.55
PES	19.94	7.24	23.55
LDFB	19.94	7.24	23.55
LCOR	19.94	7.24	23.55

Tool: DIL **Length:** 21.49 **ft., O.D.:** 3.63 **in.**
Sonde ID : DIL BG 21

Measure Point	Stack Offset	Tool Offset	Bottom Offset
ILD	30.92	8.92	12.56
ILM	32.10	10.10	11.39
SFLU	39.49	17.49	4.00
SP	42.60	20.60	0.88

TENSION
LBS
10000 0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.0 500.0
0.0 50.0

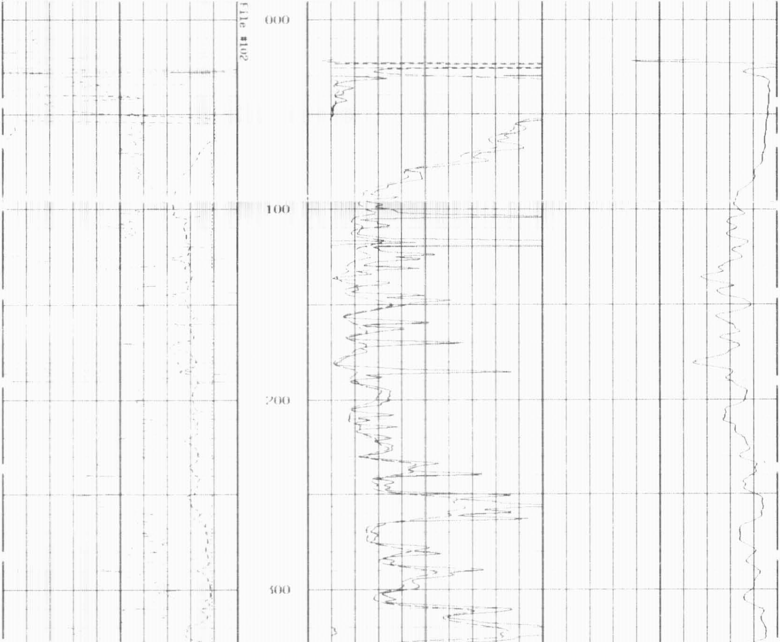
SPONTANEOUS POTENTIAL
mV
→| |← 20

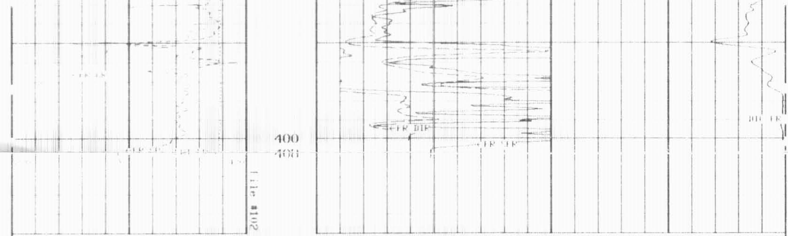
DEEP INDUCTION
OHMM
0.0 500.0
0.0 50.0

GAMMA RAY
API UNITS
200 400
0 200

DEEP CONDUCTIVITY
MMHO
2000 1000
1000 0

1:600 SECTION





1:600 SECTION

GAMMA RAY
API UNITS
200 400
0 200

DEEP CONDUCTIVITY
MMHO
2000 1000
1000 0

SPONTANEOUS POTENTIAL
mV
→| |← 20

DEEP INDUCTION
OHMM
0.0 500.0
0.0 50.0

TENSION
LBS
10000 0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.0 500.0
0.0 50.0

TENSION
LBS
10000 0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 2000.0

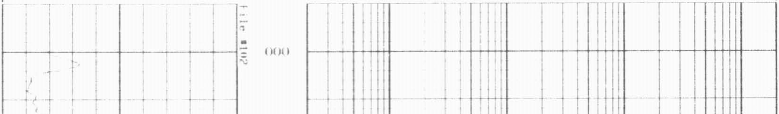
SPONTANEOUS POTENTIAL
mV
→| |← 20

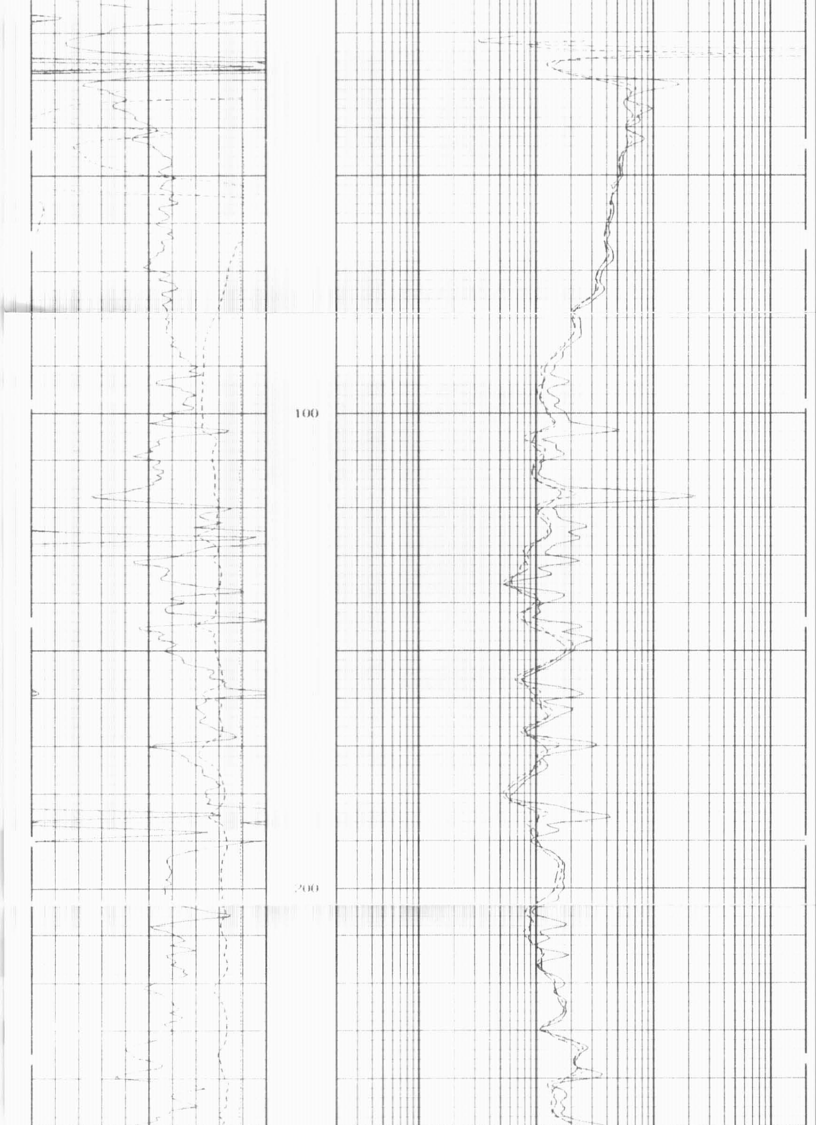
MEDIUM INDUCTION
OHMM
0.2 2000.0

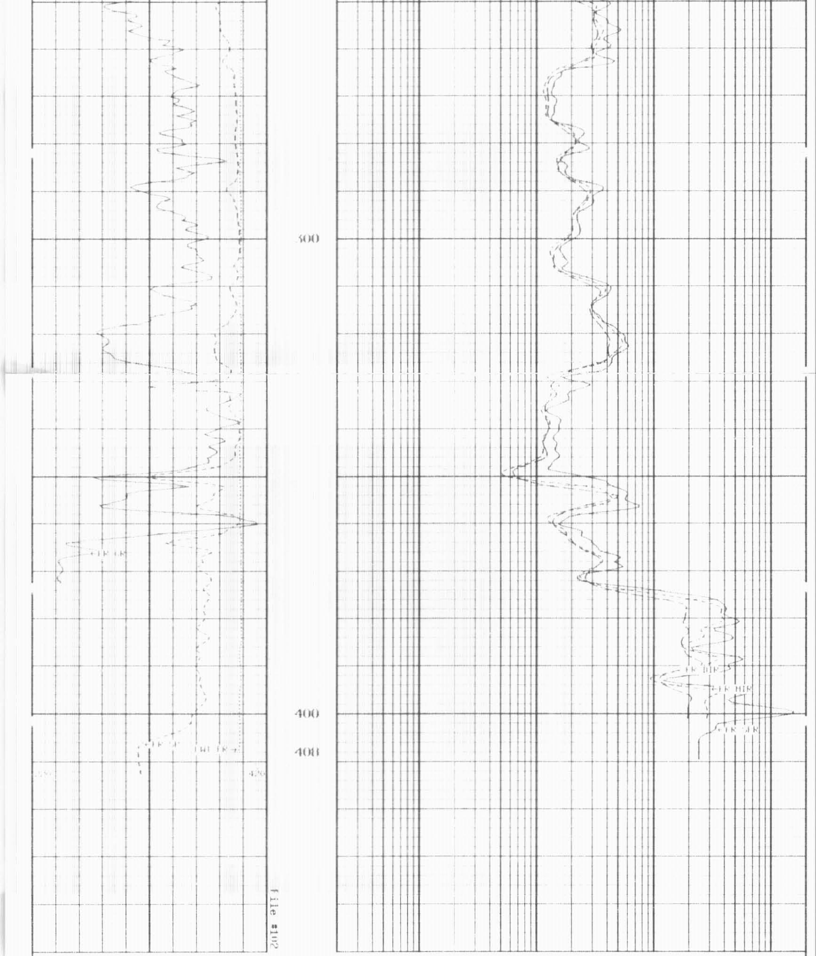
GAMMA RAY
API UNITS
200 400
0 200

DEEP INDUCTION
OHMM
0.2 2000.0

1:240 MAIN SECTION







1:240 MAIN SECTION

GAMMA RAY API UNITS	DEEP INDUCTION OHMM
200 400 0 200	0.2 2000.0
SPONTANEOUS POTENTIAL mV	MEDIUM INDUCTION OHMM
→| |← 20	0.2 2000.0
TENSION LBS	SHALLOW FOCUSED RESISTIVITY OHMM
10000 0	0.2 2000.0

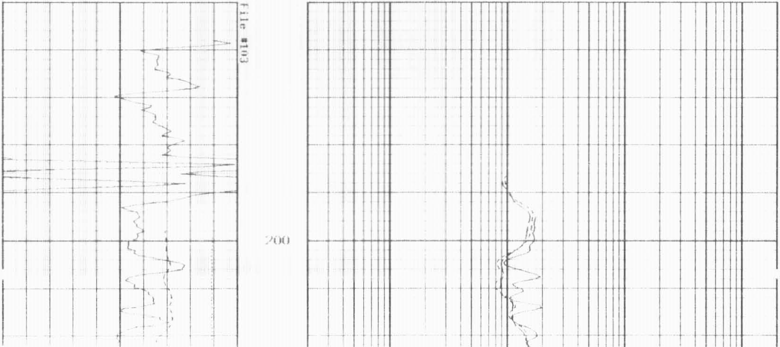
* Borehole Zone Factors *

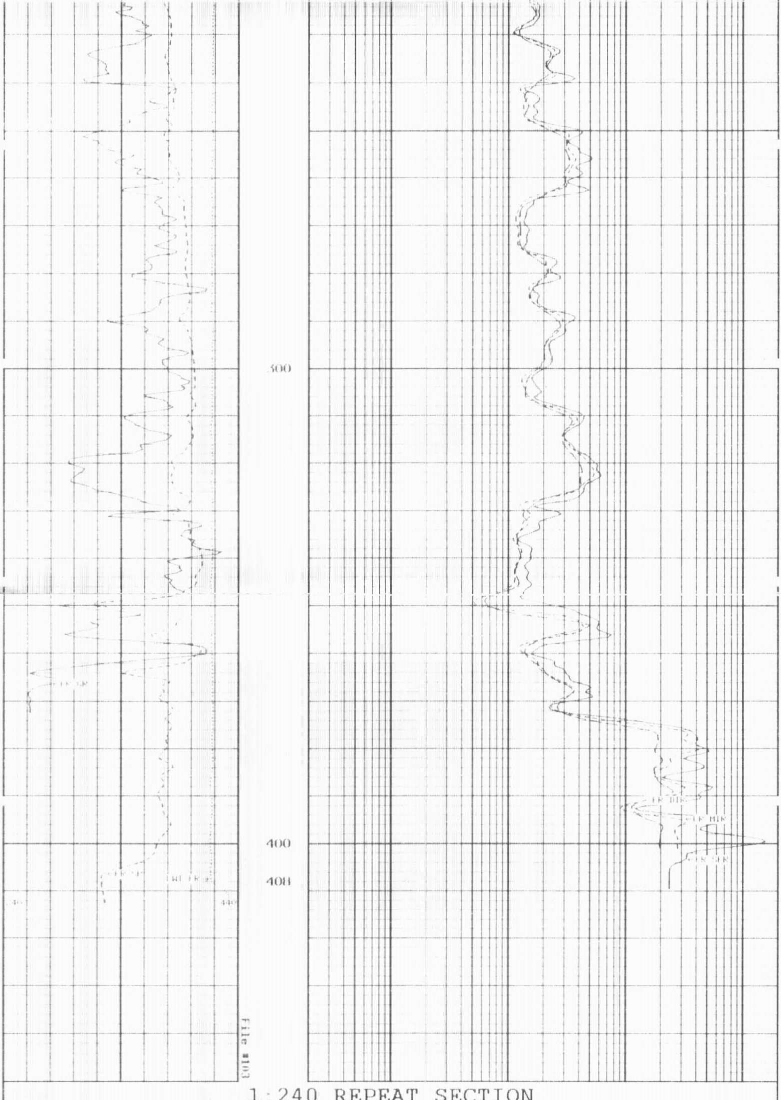
Zone 1 9999.0 to 0.0 F

Drill Bit Size	5.875	IN
BHT Depth	400.000	F
Borehole Temperature	75.0	DEGF
Temperature Gradient	1.00	DEGF
Resistivity Of Mud	10.00	OHMM
Resistivity Of Mud Temperature	85.00	DEGF

TENSION LBS	SHALLOW FOCUSED RESISTIVITY OHMM
10000 0	0.2 2000.0
SPONTANEOUS POTENTIAL mV	MEDIUM INDUCTION OHMM
→| |← 20	0.2 2000.0
GAMMA RAY API UNITS	DEEP INDUCTION OHMM
200 400 0 200	0.2 2000.0

1:240 REPEAT SECTION





1:240 REPEAT SECTION

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         GAMMA RAY                              DEEP INDUCTION
         API UNITS                                   OHMM
200                   400
 0                    200        0.2                                        2000.0

   SPONTANEOUS POTENTIAL                       MEDIUM INDUCTION
            mV                                       OHMM

        →|    |← 20              0.2                                        2000.0

          TENSION                       SHALLOW FOCUSED RESISTIVITY
            LBS                                      OHMM

10000                   0        0.2                                        2000.0
```

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                      * Borehole Zone Factors *

               Zone 1    9999.0   to     0.0  F

   Drill Bit Size                                5.875   IN
   TVD Depth                                   308.000   F
   Borehole Temperature                          75.0    DEGF
   Temperature Gradient                          1.00    DEGF
   Resistivity Of Mud                           10.00     OHMM
   Resistivity Of Mud Temperature               85.00     DEGF
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                       * Calibration Summary *

                          Shop Calibration
                                GRTB
     Performed : 24 Apr 2008             Time : 10:49
 Sensor Serial : GR 685                    ID : GRT 8B 41

                       Measured      Units        Calibrated        Units
          Background       Jig                       Jig
GR              43         337     CPS               175            GAPI

                          Shop Calibration
                                PIT B
     Performed : 26 May 2009             Time : 10:18
 Sensor Serial : F 1BB 1                   ID : PIT 8B 21

                               Medium
                  Measured                  Calibrated
                 R        X                R          X        Units
 Air          131228   130106             0.3        0.6       MMHOS
 Zero         131067   131068             0.0        0.0       MMHOS
 Reference    249585   248850          5000.0     5000.0       MMHOS
 Loop         151475   173632          2698.0      988.5       MMHOS
 Sonde Error                              0.2        4.2       MMHOS
 Total                                 5000.0     5000.0       MMHOS

                                Deep
                  Measured                  Calibrated
                 R        X                R          X        Units
 Air          128818   131563             0.3        0.2       MMHOS
 Zero         130804   131062             0.0        0.0       MMHOS
 Reference    252628   251483          2000.0     2000.0       MMHOS
 Loop         149239   174966          1265.2      465.4       MMHOS
 Sonde Error                              3.0        0.3       MMHOS
 Total                                 2000.0     2000.0       MMHOS

                             Temperature
                  Measured                  Calibrated
                Low      High              Low       High      Units
            16880.0 56550.0               70.0      350.0      DEGF

     Performed : 26 May 2009             Time : 10:13
 Sensor Serial : 541                       ID : PIT 8B 21

                              Internal
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	Measured		Calibrated		
	Zero	Reference	Zero	Reference	Units
Im	52769,9	50381,9	0,0	2028,0	mA
Ib	52768,4	50624,2	0,0	1750,0	mA
MONI	52768,2	58761,4	0,0	175,0	mV
Equivalent SH				43,92	OHMM

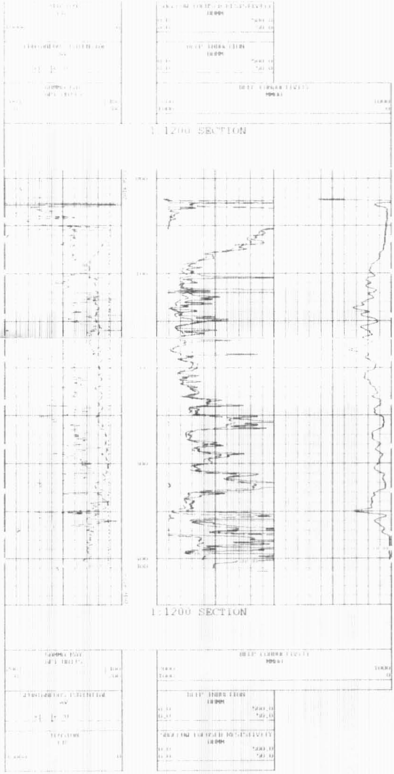
Performed : [illegible] May 2009 Time : [illegible]
Sensor Suite : P SP ID : P11 BA 21

Internal

Measured		Calibrated		
Zero	Reference	Zero	Reference	Units
58?,2	58??1,5	0,0	1000,0	mV

Performed : 25 May 2009 Time : 11:12
Sensor Suite : P EMDU ID : P11 BA 21

Internal

	Measured		Calibrated		
	Zero	Reference	Zero	Reference	Units
Emi	0,0	58135,0	0,0	290,6	mA
Emv	0,0	58135,0	0,0	290,6	mV
Equivalent Em				0,0021	OHMM