WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

FILING NO.

VS

COMPANY: SOUTHERN CALIF. GAS CO.
WELL: PORTER 68A
FIELD: ALISO CANYON
COUNTY: LOS ANGELES STATE: CALIFORNIA

LOCATION:
DISRTICT 2

API NUMBER: 0403722742
SEC: 27 TWN: 3N RNG: 16W

OTHER SVC:

PERMANENT DATUM: GROUND LEVEL ELEV: 2080 FT.

LOG MEASURED FROM KB 18' ABOVE PERM DATUM

DRILLING MEASURED FROM

-ELEVATIONS-
KB: 2098 Ft.
DF: Ft.
GL: 2080 Ft.

DATE LOG RAN	03-10-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1093
EFFECTIVE DEPTH	7311'	CASING PSI			1093
PICKUP DEPTH	7311'	INJECTION RATE	N|A		
BOT LOGGED INT	7311'	OBSERVED RATE	N|A		
TOP LOGGED INT	100'	R/A SOURCE	N|A		
TYPE OF INJECT	NONE	ACTIVITY	N|A		
FLUID IN WELL	GAS	HALF LIFE	N|A		
FLUID LEVEL	N|A				

WELL STATUS	STATIC			PRODUCTION DATA	
MAX TEMPERATURE	158.8 F.	OIL Gr.	N|A	OIL =	N|A
AT DEPTH	6974.5'	GAS Gr.	N|A	GAS=	N|A
TEMPERATURE SENS	1 F/DIV.	MPP	N|A	BHP =	N|A
LOGGING SPEED	100 FPM			WATER=	N|A
RECORDED BY	D. PROKUSKI				
WITNESSED BY	N|A				
EMAIL TO	A. KARGAR				
DEPTH CORRELATION	LINER TOP				

Equipment Data

Collar Locator	1.375"		
Temperature Tool	1.375"		
Audio Detector	1.375"		

Remarks/Survey Results

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11:15 AM - ON LOCATION
11:30 AM - RAN IN HOLE
11:40 AM - BEGIN SURVEY
02:30 PM - PULL OUT OF HOLE
03:00 PM - OFF LOCATION
SAND TAG MARKERS: 6682' TOP MP
                  6953' TOP S1
                  7054' TOP S4
                  7127' TOP S8
                  7272' TOP FREW
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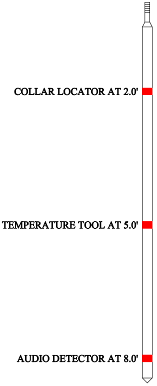
CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	1015'				
9.625"	36	SURFACE	7044'				
5.500"	17	6933'	7311'				
2.875"	6.5	SURFACE	6930'				

STR.	PIPE DIA.	PERFORATIONS
A	5.500"	7040'-7304'.
		PACKERS: 6889',6894'.
		MANDRELS: 6778'-6783'.
		SLEEVES: 6822'-6824'.
		NO-GO: 6856'.

TOOL DIAGRAM



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     Audio Data:  c:\data\noise.txt
--------------------------------------------------
   DEPTH |   200HZ |   600HZ |  1000HZ |  2000HZ |
--------------------------------------------------
     100 |   10.40 |    5.50 |    3.90 |    2.50 |
     250 |   10.40 |    5.20 |    3.60 |    2.20 |
     500 |   10.00 |    5.20 |    3.60 |    2.10 |
     750 |    9.90 |    5.20 |    3.60 |    2.20 |
     900 |    9.80 |    5.20 |    3.70 |    2.30 |
     920 |    9.80 |    5.20 |    3.70 |    2.30 |
     940 |    9.80 |    5.20 |    3.70 |    2.30 |
     960 |    9.80 |    5.20 |    3.70 |    2.30 |
    1000 |    9.80 |    5.20 |    3.70 |    2.30 |
    1020 |    9.80 |    5.10 |    3.60 |    2.30 |
    1040 |    9.70 |    5.20 |    3.70 |    2.30 |
    1060 |    9.80 |    5.20 |    3.70 |    2.30 |
    1080 |    9.90 |    5.30 |    3.70 |    2.40 |
    1100 |    9.70 |    5.20 |    3.70 |    2.30 |
    1250 |    9.70 |    5.20 |    3.70 |    2.30 |
    1500 |    9.70 |    5.20 |    3.70 |    2.40 |
    1520 |    9.70 |    5.20 |    3.80 |    2.40 |
    1540 |    9.80 |    5.20 |    3.70 |    2.40 |
    1560 |    9.60 |    5.20 |    3.70 |    2.40 |
    1580 |    9.70 |    5.20 |    3.70 |    2.30 |
    1600 |    9.70 |    5.20 |    3.70 |    2.30 |
    1620 |    9.70 |    5.20 |    3.70 |    2.30 |
    1640 |    9.70 |    5.20 |    3.70 |    2.30 |
    1660 |    9.60 |    5.10 |    3.70 |    2.30 |
    1680 |    9.60 |    5.10 |    3.70 |    2.30 |
    1700 |    9.70 |    5.10 |    3.70 |    2.30 |
    1750 |    9.60 |    5.20 |    3.70 |    2.40 |
    2000 |    9.60 |    5.20 |    3.70 |    2.30 |
    2250 |    9.60 |    5.10 |    3.70 |    2.30 |
    2500 |    9.70 |    5.10 |    3.70 |    2.40 |
    2750 |    9.40 |    5.10 |    3.70 |    2.40 |
    3000 |    9.50 |    5.10 |    3.70 |    2.30 |
    3250 |    9.40 |    5.10 |    3.70 |    2.40 |
    3500 |    9.40 |    5.10 |    3.70 |    2.40 |
    3750 |    9.30 |    5.10 |    3.70 |    2.40 |
    4000 |    9.10 |    5.00 |    3.70 |    2.40 |
    4250 |    9.20 |    5.10 |    3.70 |    2.40 |
    4500 |    9.20 |    5.10 |    3.70 |    2.40 |
    4750 |    8.90 |    5.00 |    3.70 |    2.40 |
    5000 |    9.00 |    5.10 |    3.70 |    2.40 |
    5250 |    9.10 |    5.00 |    3.70 |    2.30 |
    5500 |    8.90 |    5.00 |    3.70 |    2.30 |
    5750 |    8.90 |    5.00 |    3.70 |    2.30 |
    6000 |    8.90 |    5.00 |    3.70 |    2.40 |
    6250 |    8.90 |    5.10 |    3.80 |    2.50 |
    6500 |    8.80 |    5.00 |    3.70 |    2.30 |
    6600 |    8.70 |    4.90 |    3.70 |    2.40 |
    6610 |    8.70 |    5.00 |    3.70 |    2.40 |
    6620 |    8.70 |    5.00 |    3.70 |    2.40 |
    6630 |    8.70 |    5.00 |    3.70 |    2.40 |
    6640 |    8.60 |    4.90 |    3.70 |    2.40 |
    6650 |    8.60 |    5.00 |    3.70 |    2.40 |
    6660 |    8.60 |    5.00 |    3.70 |    2.40 |
    6670 |    8.70 |    4.90 |    3.70 |    2.40 |
    6680 |    8.60 |    5.00 |    3.70 |    2.40 |
    6690 |    8.70 |    4.90 |    3.70 |    2.40 |
    6700 |    8.60 |    5.00 |    3.70 |    2.40 |
    6710 |    8.50 |    5.00 |    3.70 |    2.40 |
    6720 |    8.70 |    5.00 |    3.70 |    2.40 |
    6730 |    8.50 |    5.00 |    3.70 |    2.40 |
    6740 |    8.60 |    4.90 |    3.70 |    2.40 |
    6750 |    8.70 |    5.00 |    3.70 |    2.40 |
    6760 |    8.60 |    4.90 |    3.70 |    2.40 |
    6770 |    8.50 |    5.00 |    3.70 |    2.40 |
    6780 |    8.60 |    5.00 |    3.70 |    2.40 |
    6790 |    8.50 |    4.90 |    3.70 |    2.30 |
    6800 |    8.50 |    4.90 |    3.70 |    2.40 |
    6810 |    8.60 |    5.00 |    3.70 |    2.40 |
    6820 |    8.70 |    5.00 |    3.70 |    2.40 |
    6830 |    8.50 |    5.00 |    3.70 |    2.40 |
    6840 |    8.40 |    4.90 |    3.70 |    2.40 |
    6850 |    8.60 |    4.90 |    3.70 |    2.40 |
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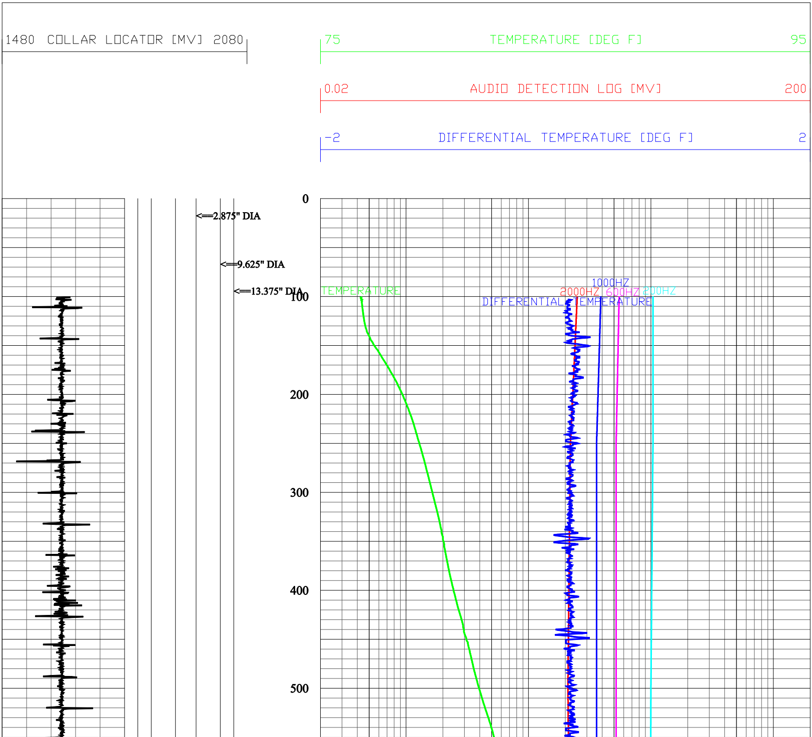
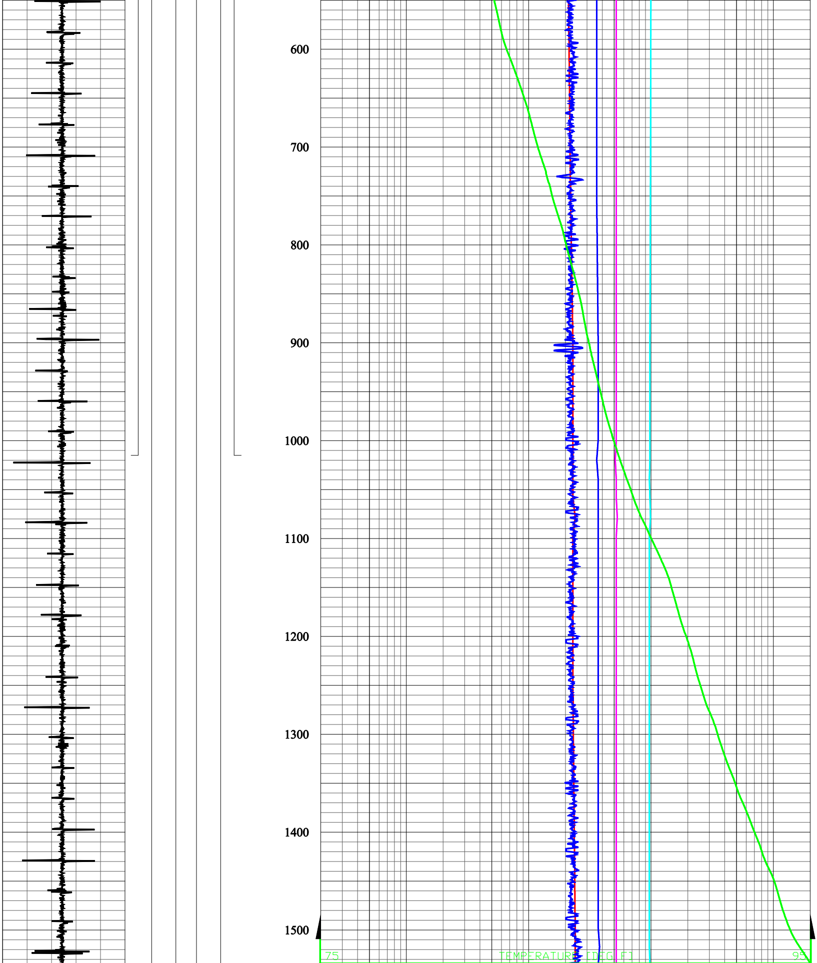
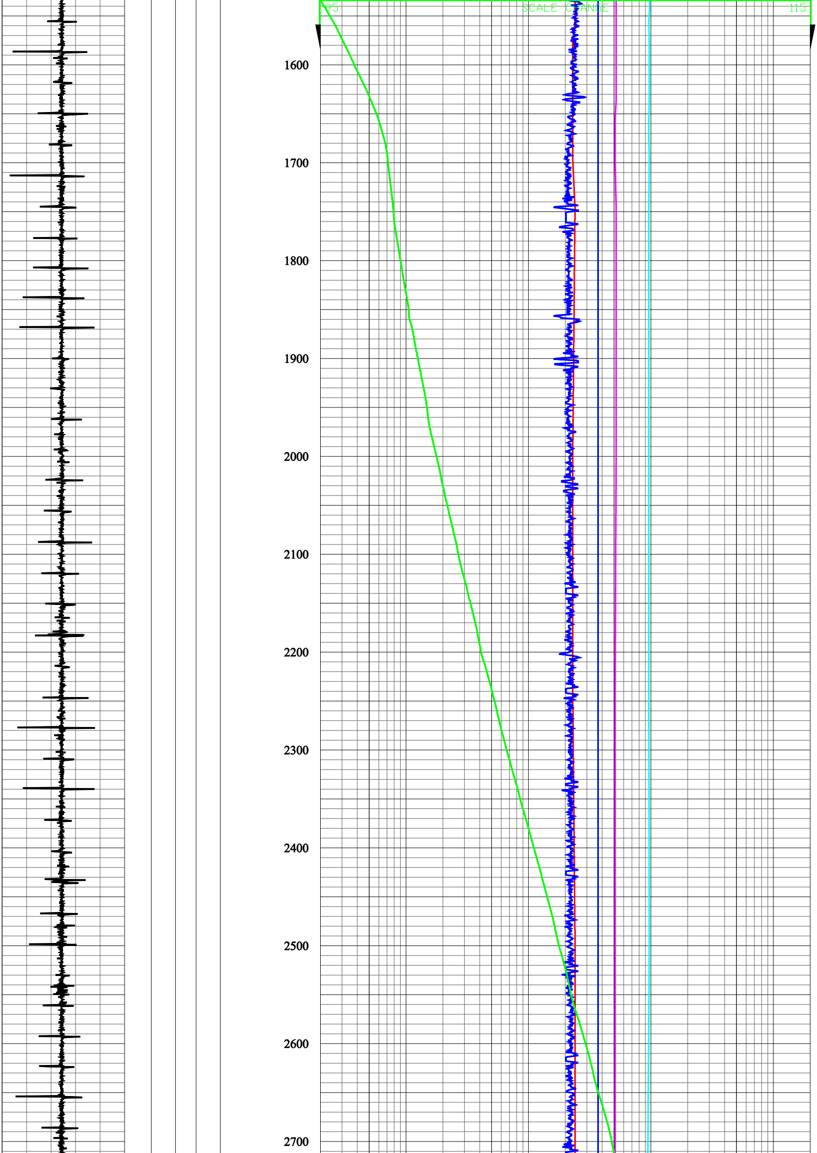
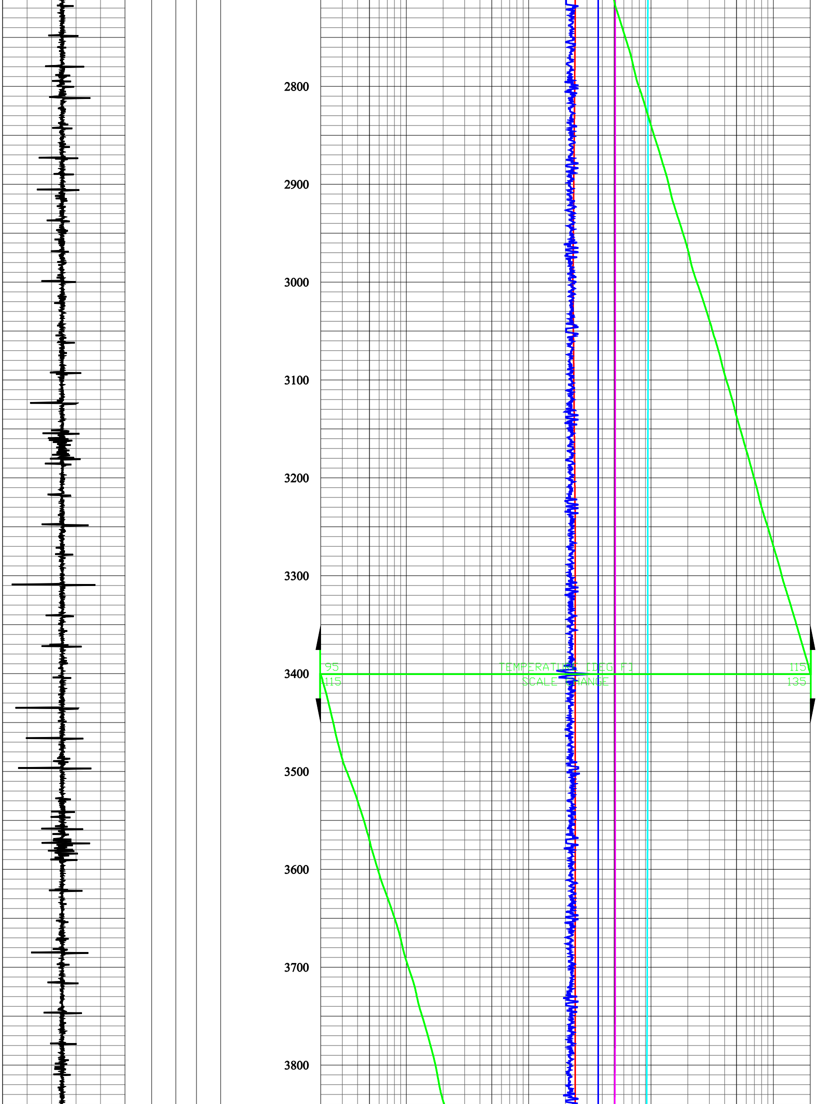
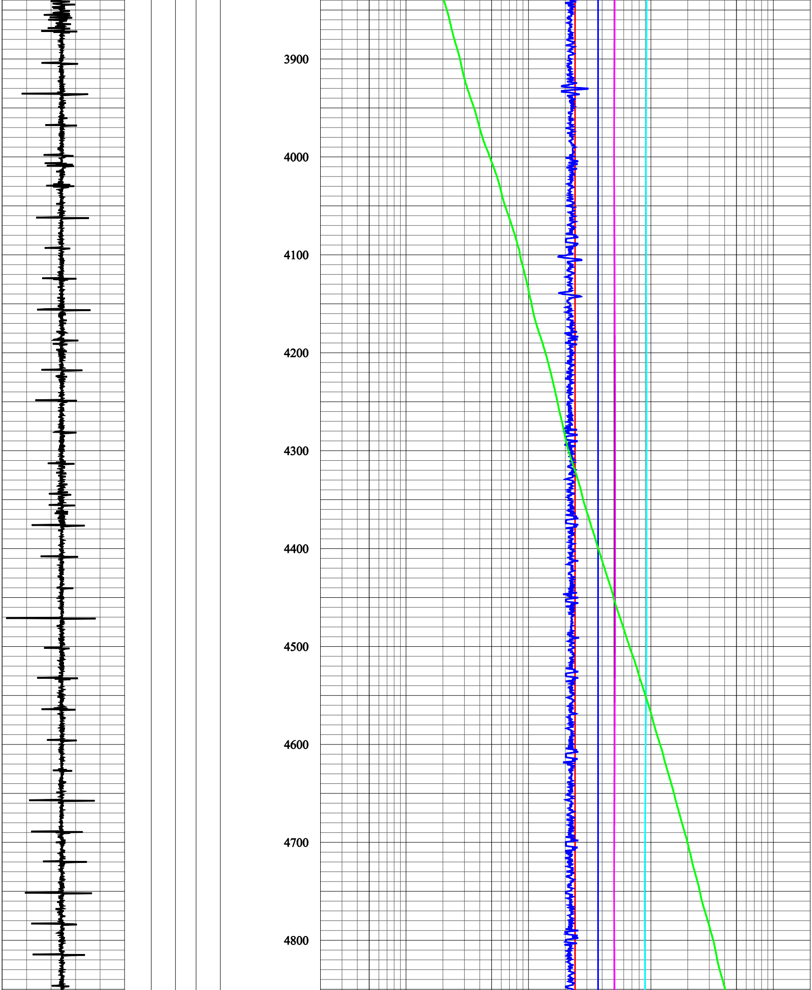
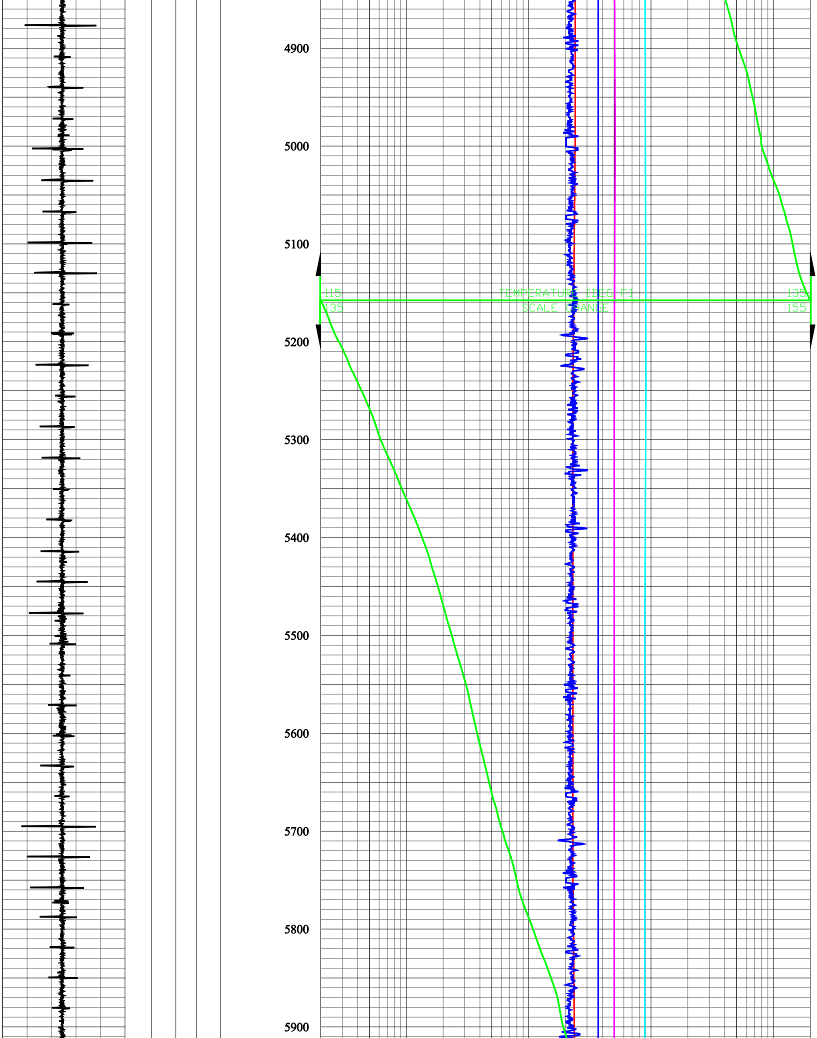
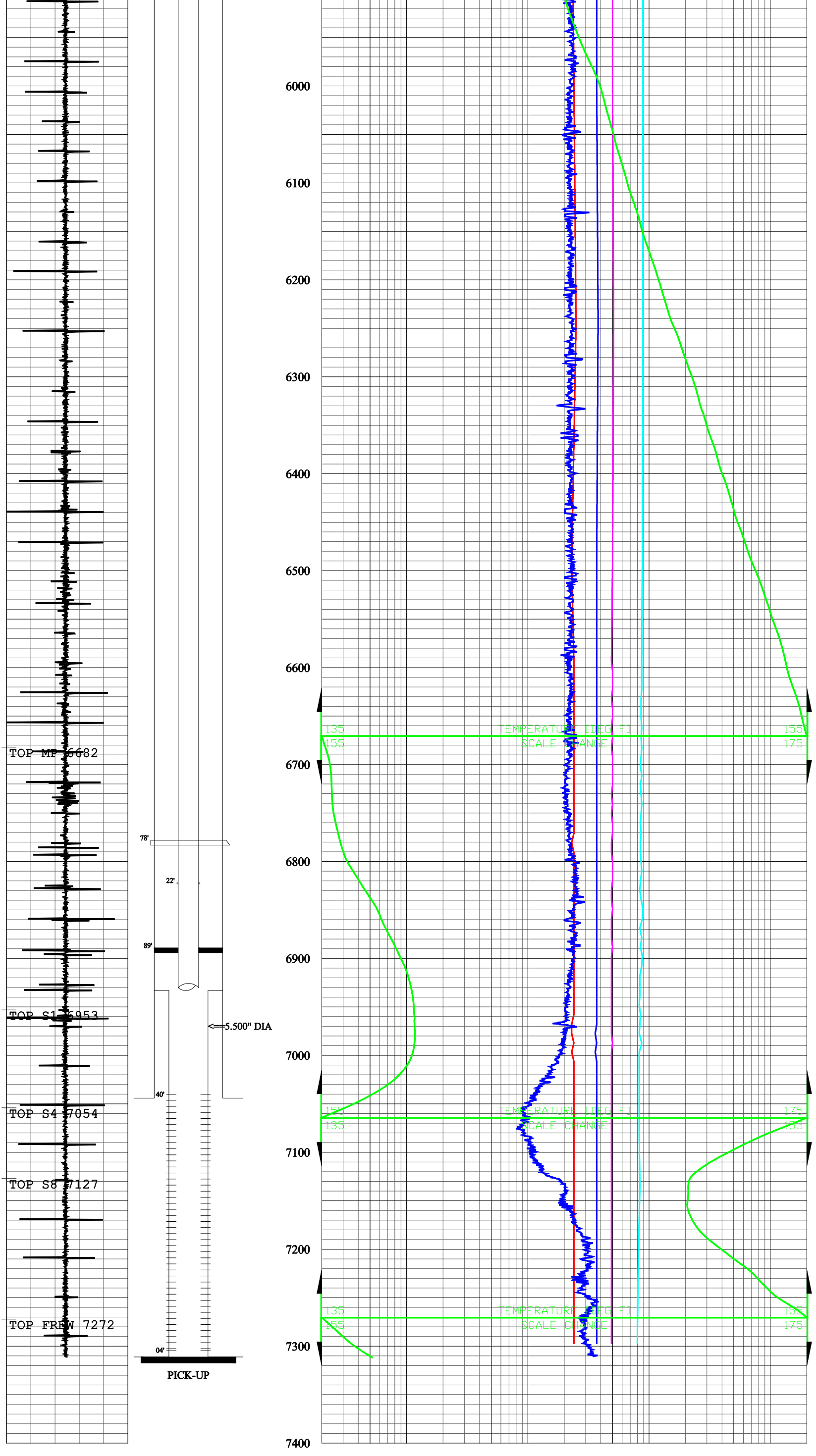
6860 |     8.90 |     5.00 |     3.70 |     2.40 |
6870 |     8.80 |     4.90 |     3.70 |     2.40 |
6880 |     8.40 |     4.90 |     3.70 |     2.40 |
6890 |     8.70 |     4.90 |     3.70 |     2.40 |
6900 |     8.50 |     5.00 |     3.70 |     2.40 |
6910 |     8.80 |     4.90 |     3.70 |     2.40 |
6920 |     8.70 |     4.90 |     3.70 |     2.40 |
6930 |     8.40 |     4.90 |     3.70 |     2.40 |
6940 |     8.40 |     4.90 |     3.70 |     2.40 |
6950 |     8.40 |     4.90 |     3.70 |     2.40 |
6960 |     8.30 |     4.90 |     3.70 |     2.40 |
6970 |     8.50 |     4.90 |     3.70 |     2.40 |
6980 |     8.40 |     4.90 |     3.70 |     2.30 |
6990 |     8.30 |     4.90 |     3.60 |     2.30 |
7000 |     8.70 |     5.00 |     3.70 |     2.40 |
7010 |     8.30 |     4.90 |     3.60 |     2.30 |
7020 |     8.30 |     4.90 |     3.70 |     2.40 |
7030 |     8.30 |     4.90 |     3.70 |     2.40 |
7040 |     8.30 |     4.90 |     3.70 |     2.40 |
7050 |     8.30 |     4.90 |     3.70 |     2.40 |
7060 |     8.30 |     4.90 |     3.70 |     2.40 |
7070 |     8.30 |     4.90 |     3.70 |     2.40 |
7080 |     8.30 |     4.90 |     3.70 |     2.40 |
7090 |     8.30 |     4.90 |     3.70 |     2.40 |
7100 |     8.30 |     4.90 |     3.70 |     2.40 |
7150 |     8.40 |     4.90 |     3.70 |     2.40 |
7250 |     8.10 |     4.90 |     3.70 |     2.40 |
7313 |     8.00 |     4.90 |     3.70 |     2.40 |
```


1480 COLLAR LOCATOR [MV] 2080
75 TEMPERATURE [DEG F] 95
0.02 AUDIO DETECTION LOG [MV] 200
-2 DIFFERENTIAL TEMPERATURE [DEG F] 2
0
<==2.875" DIA
<==9.625" DIA
<==13.375" DIA
100
200
300
400
500
TEMPERATURE
1000HZ
2000HZ
600HZ
200HZ
DIFFERENTIAL TEMPERATURE