WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

COMPANY:	SOUTHERN CALIF. GAS CO.
WELL:	PORTER 42B
FIELD:	ALISO CANYON
COUNTY:	LOS ANGELES
STATE:	CALIFORNIA
WELL TYPE	GS

LOCATION:
DISTRICT 2

OTHER SVC:

API NUMBER: 0403721877
SEC: 28 TWN: 3N RNG: 16W
MM

-ELEVATIONS-
KB: 1985 Ft.
DF: Ft.
GL: 1963 Ft.

PERMANENT DATUM: GROUND LEVEL ELEV: 1963'
LOG MEASURED FROM KB 22' ABOVE PERM DATUM
DRILLING MEASURED FROM

DATE LOG RAN	01-11-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1300
EFFECTIVE DEPTH	7879'	CASING PSI			1300
PICKUP DEPTH	N/A	INJECTION RATE	N/A		
BOT LOGGED INT	7782'	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	169.5 F	OIL Gr.		OIL =	
AT DEPTH	7766.5'	GAS Gr.		GAS=	
TEMPERATURE SENS	1 F/DIV.	MPP		BHP =	
LOGGING SPEED	100 FPM			WATER=	
RECORDED BY	D. PROKUSKI				
WITNESSED BY	N/A				
EMAIL TO	A. KARGAR				
DEPTH CORRELATION	N/A				

Equipment Data

COLLAR LOCATOR	1.375"		
TEMPERATURE TOOL	1.375"		
AUDIO DETECTOR	1.375"		

Remarks/Survey Results

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SURVEY INDICATES NO ABOVE NORMAL ACTIVITY.
8:00 AM ON LOCATION
9:00 AM RAN IN HOLE
9:10 AM BEGIN SURVEY
12:45 PM PULL OUT OF HOLE
1:15 PM OFF LOCATION
SAND TAG MARKERS: 7330' TOP MP
                  7524' TOP S1
                  7600' TOP S4
                  7695' TOP S8
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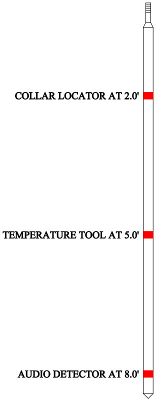
CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
8.625"	36	SURFACE	7598'				
5.500"	15	7414'	7989'				
3.500"	9.3	SURFACE	7358.63'				

STR.	PIPE DIA.	PERFORATIONS
A	8.625"	7419'-7516'.
	5.500"	7566'-7879'.
		PACKERS: 7340.28'-7348.26'.
		MANDRELS: 7256.83'-7285.746'.
		SLEEVES: 7296.42'-7299.87'.
		NO-GO: 7333.20', 7357.24'.

TOOL DIAGRAM



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     Audio Data:  c:\data\noise.txt
--------------------------------------------------
   DEPTH |   200HZ |   600HZ |  1000HZ |  2000HZ |
--------------------------------------------------
      50 |    8.70 |    6.10 |    4.30 |    3.00 |
     100 |    8.70 |    6.10 |    4.20 |    2.90 |
     150 |    9.40 |    6.50 |    4.60 |    3.50 |
     200 |    8.60 |    6.10 |    4.20 |    3.10 |
     250 |    9.50 |    6.40 |    4.70 |    3.20 |
     299 |    9.00 |    6.30 |    4.60 |    3.00 |
     350 |    8.30 |    6.10 |    4.20 |    3.10 |
     400 |    8.40 |    6.00 |    4.10 |    2.90 |
     450 |    8.30 |    6.10 |    4.30 |    3.10 |
     500 |    8.30 |    6.20 |    4.40 |    3.20 |
     550 |    8.50 |    6.00 |    4.10 |    2.60 |
     600 |    8.30 |    6.00 |    4.20 |    3.00 |
     650 |    8.80 |    6.30 |    4.50 |    3.10 |
     705 |    8.00 |    5.90 |    4.10 |    2.90 |
     750 |    8.00 |    5.90 |    4.10 |    3.00 |
     799 |    8.20 |    5.90 |    4.10 |    2.90 |
     850 |    8.00 |    5.90 |    4.10 |    3.00 |
     860 |    7.90 |    5.80 |    4.00 |    2.90 |
     870 |    8.00 |    5.90 |    4.10 |    3.00 |
     880 |    8.00 |    5.80 |    4.00 |    2.90 |
     888 |    8.00 |    5.90 |    4.10 |    3.00 |
     900 |    8.00 |    5.80 |    4.00 |    2.90 |
     909 |    8.00 |    5.80 |    4.10 |    2.90 |
     920 |    8.10 |    5.90 |    4.10 |    2.90 |
     930 |    8.10 |    6.00 |    4.10 |    3.00 |
     940 |    8.30 |    5.90 |    4.10 |    2.90 |
     950 |    7.90 |    5.70 |    3.80 |    2.50 |
     960 |    7.90 |    5.80 |    3.80 |    2.50 |
     970 |    7.80 |    5.70 |    3.80 |    2.50 |
     980 |    7.90 |    5.80 |    3.80 |    2.50 |
     989 |    7.90 |    5.70 |    3.80 |    2.50 |
    1000 |    8.00 |    5.80 |    3.80 |    2.50 |
    1010 |    7.80 |    5.70 |    3.70 |    2.40 |
    1020 |    7.90 |    5.70 |    3.80 |    2.50 |
    1030 |    7.80 |    5.70 |    3.80 |    2.40 |
    1040 |    8.00 |    5.70 |    3.80 |    2.40 |
    1050 |    8.00 |    5.70 |    3.80 |    2.50 |
    1060 |    7.80 |    5.60 |    3.70 |    2.40 |
    1070 |    8.10 |    5.70 |    3.80 |    2.40 |
    1080 |    7.90 |    5.70 |    3.80 |    2.40 |
    1090 |    8.10 |    5.80 |    3.90 |    2.60 |
    1099 |    7.80 |    5.70 |    3.70 |    2.40 |
    1110 |    7.80 |    5.70 |    3.70 |    2.40 |
    1120 |    8.00 |    5.70 |    3.70 |    2.40 |
    1130 |    7.90 |    5.80 |    3.80 |    2.40 |
    1140 |    7.90 |    5.70 |    3.80 |    2.50 |
    1150 |    7.80 |    5.70 |    3.70 |    2.40 |
    1200 |    8.10 |    5.70 |    3.80 |    2.40 |
    1399 |    7.80 |    5.70 |    4.00 |    2.80 |
    1600 |    7.80 |    5.80 |    4.00 |    2.90 |
    1800 |    7.80 |    5.80 |    4.00 |    2.80 |
    2000 |    7.60 |    5.70 |    3.90 |    2.80 |
    2197 |    7.70 |    5.70 |    3.90 |    2.80 |
    2399 |    7.90 |    5.70 |    4.00 |    2.80 |
    2600 |    7.90 |    5.80 |    4.20 |    3.00 |
    2800 |    7.50 |    5.60 |    3.90 |    2.80 |
    3000 |    7.60 |    5.60 |    3.90 |    2.80 |
    3200 |    7.50 |    5.60 |    4.00 |    2.80 |
    3400 |    7.60 |    5.60 |    3.90 |    2.80 |
    3600 |    7.50 |    5.50 |    3.90 |    2.80 |
    3799 |    7.30 |    5.50 |    3.90 |    2.80 |
    4000 |    7.60 |    5.50 |    3.90 |    2.80 |
    4199 |    7.50 |    5.60 |    4.00 |    2.80 |
    4399 |    7.30 |    5.50 |    3.90 |    2.80 |
    4599 |    7.40 |    5.50 |    3.90 |    2.80 |
    4800 |    7.20 |    5.50 |    3.90 |    2.70 |
    5000 |    7.30 |    5.50 |    3.90 |    2.80 |
    5200 |    7.30 |    5.50 |    3.90 |    2.80 |
    5400 |    7.40 |    5.60 |    4.00 |    2.80 |
    5600 |    7.20 |    5.40 |    3.90 |    2.80 |
    5800 |    7.20 |    5.40 |    3.90 |    2.70 |
    5980 |    7.00 |    5.40 |    3.90 |    2.70 |
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   6203 |     7.00 |     5.40 |     3.90 |     2.70 |
   6400 |     6.90 |     5.40 |     3.90 |     2.70 |
   6600 |     6.90 |     5.40 |     3.90 |     2.70 |
   6800 |     7.00 |     5.40 |     4.00 |     2.80 |
   6809 |     6.90 |     5.30 |     3.90 |     2.70 |
   6819 |     7.00 |     5.40 |     4.00 |     2.80 |
   6830 |     7.00 |     5.40 |     4.00 |     2.80 |
   6840 |     7.00 |     5.50 |     4.00 |     2.80 |
   6850 |     7.00 |     5.40 |     4.00 |     2.80 |
   6859 |     6.90 |     5.30 |     3.90 |     2.70 |
   6870 |     7.00 |     5.40 |     4.00 |     2.70 |
   6880 |     6.90 |     5.30 |     3.90 |     2.70 |
   6890 |     6.90 |     5.40 |     3.90 |     2.70 |
   6900 |     6.90 |     5.40 |     3.90 |     2.80 |
   6909 |     6.90 |     5.40 |     3.90 |     2.80 |
   6920 |     7.00 |     5.40 |     3.90 |     2.80 |
   6930 |     7.00 |     5.40 |     3.90 |     2.80 |
   6940 |     7.00 |     5.40 |     4.00 |     2.80 |
   6950 |     6.90 |     5.40 |     3.90 |     2.70 |
   6960 |     7.30 |     5.60 |     4.10 |     2.90 |
   6970 |     6.90 |     5.40 |     3.90 |     2.80 |
   6980 |     7.20 |     5.40 |     4.00 |     2.80 |
   6990 |     7.00 |     5.40 |     4.00 |     2.80 |
   6999 |     7.00 |     5.50 |     4.10 |     2.80 |
   7010 |     6.90 |     5.40 |     4.00 |     2.80 |
   7019 |     7.20 |     5.50 |     4.00 |     2.80 |
   7030 |     7.00 |     5.50 |     4.10 |     2.90 |
   7040 |     6.90 |     5.40 |     4.00 |     2.80 |
   7050 |     6.90 |     5.40 |     4.00 |     2.80 |
   7060 |     7.40 |     5.50 |     4.00 |     2.90 |
   7070 |     7.10 |     5.50 |     4.10 |     3.00 |
   7080 |     7.00 |     5.50 |     4.10 |     3.00 |
   7090 |     7.40 |     5.60 |     4.10 |     2.90 |
   7099 |     7.40 |     5.70 |     4.30 |     3.10 |
   7110 |     7.90 |     5.70 |     4.30 |     3.20 |
   7120 |     7.50 |     5.70 |     4.30 |     3.30 |
   7130 |     8.80 |     6.60 |     5.10 |     4.10 |
   7140 |     7.80 |     6.00 |     4.60 |     3.60 |
   7150 |     9.20 |     7.40 |     6.20 |     5.30 |
   7160 |     8.90 |     6.30 |     5.00 |     4.00 |
   7170 |     9.30 |     7.30 |     6.10 |     5.20 |
   7180 |     7.70 |     6.30 |     5.10 |     4.20 |
   7190 |     8.80 |     7.50 |     6.40 |     5.70 |
   7200 |     9.40 |     7.40 |     6.20 |     5.50 |
   7210 |     9.30 |     7.50 |     6.40 |     5.60 |
   7220 |    10.70 |     7.70 |     6.60 |     5.90 |
   7229 |    23.50 |    22.60 |    22.20 |    21.70 |
   7240 |    38.40 |    37.30 |    37.10 |    36.80 |
   7260 |    23.50 |    23.00 |    22.60 |    22.20 |
   7270 |    23.30 |    22.90 |    22.50 |    22.10 |
   7280 |    30.50 |    30.20 |    29.90 |    29.60 |
   7289 |    19.30 |    18.80 |    18.30 |    18.00 |
   7300 |    18.80 |    18.40 |    17.90 |    17.60 |
   7310 |    13.20 |    12.50 |    11.80 |    11.20 |
   7319 |    12.60 |    11.90 |    11.20 |    10.60 |
   7329 |    12.20 |    11.50 |    10.80 |    10.10 |
   7340 |    11.70 |    11.00 |    10.20 |     9.60 |
   7350 |    12.50 |    11.90 |    11.20 |    10.50 |
   7360 |    11.10 |    10.30 |     9.40 |     8.80 |
   7370 |    11.50 |    10.50 |     9.70 |     9.10 |
   7380 |    10.90 |    10.10 |     9.20 |     8.60 |
   7390 |    11.00 |    10.20 |     9.30 |     8.60 |
   7400 |    11.20 |    10.40 |     9.60 |     8.90 |
   7410 |    11.70 |    11.00 |    10.20 |     9.50 |
   7418 |    10.60 |     9.80 |     8.80 |     8.20 |
   7430 |    11.00 |    10.30 |     9.40 |     8.80 |
   7440 |    11.90 |    11.30 |    10.50 |    10.00 |
   7450 |    10.90 |    10.20 |     9.30 |     8.70 |
   7460 |     9.40 |     8.60 |     7.50 |     6.90 |
   7470 |     9.10 |     8.30 |     7.10 |     6.50 |
   7480 |     8.60 |     7.70 |     6.50 |     5.70 |
   7500 |     8.10 |     7.20 |     5.90 |     5.10 |
   7520 |     7.80 |     6.90 |     5.50 |     4.70 |
   7540 |     7.90 |     7.00 |     5.60 |     4.80 |
   7560 |     7.70 |     6.80 |     5.30 |     4.50 |
   7580 |     7.00 |     6.00 |     4.40 |     3.40 |
   7600 |    28.90 |    15.80 |    13.80 |    12.60 |
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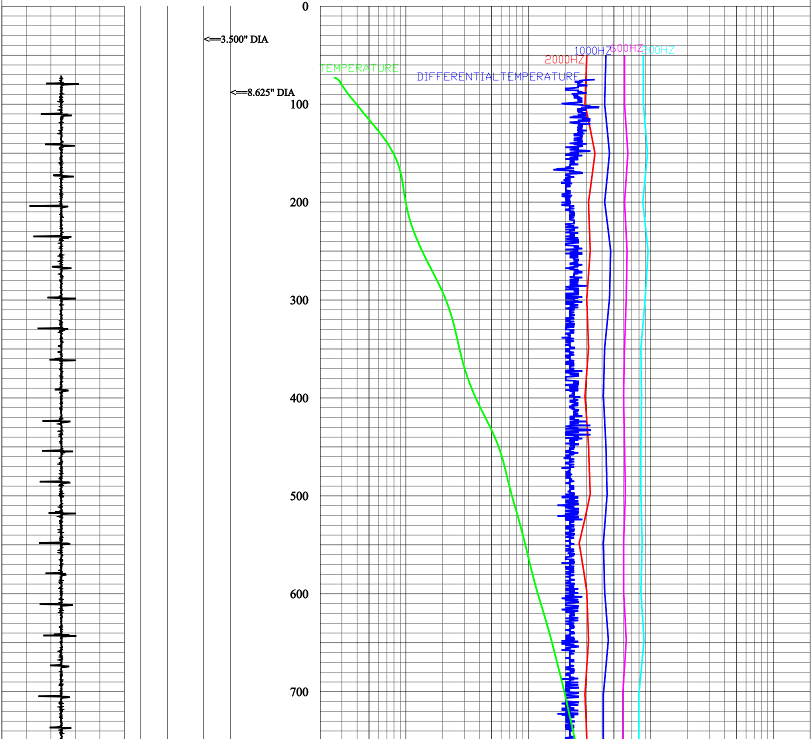
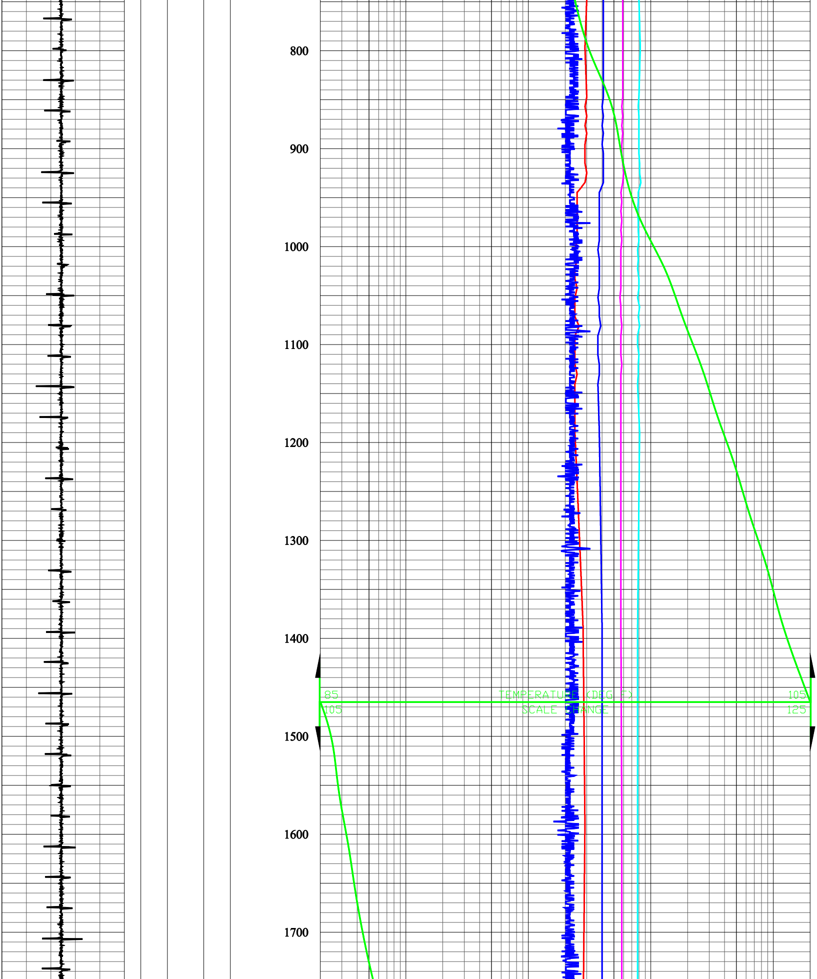
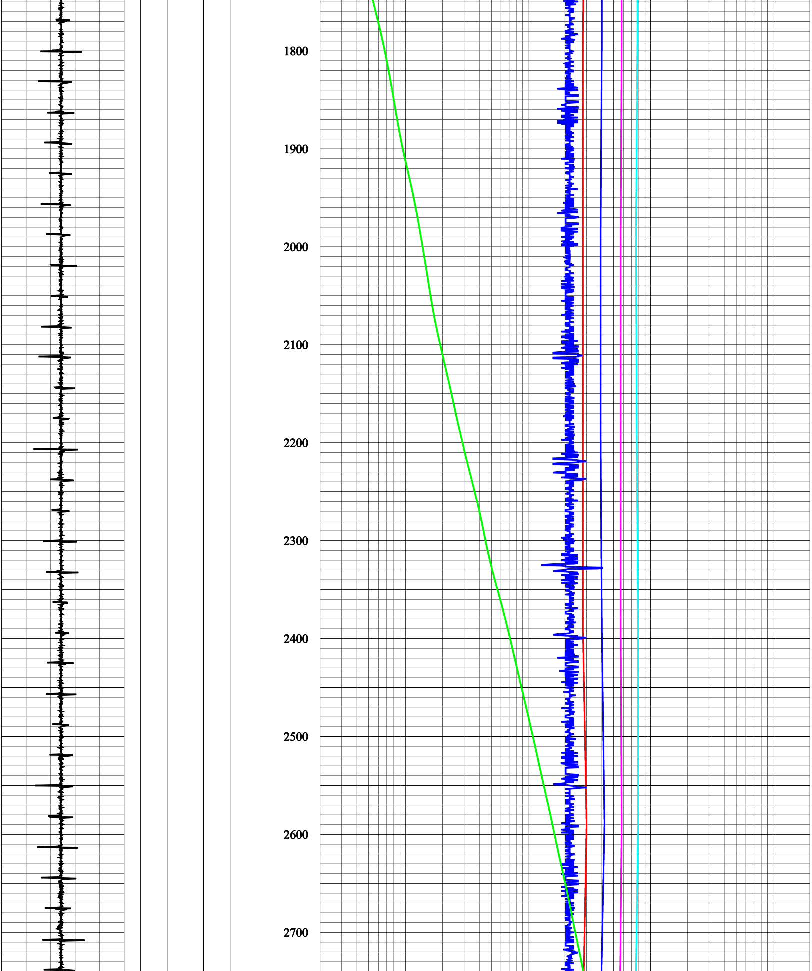
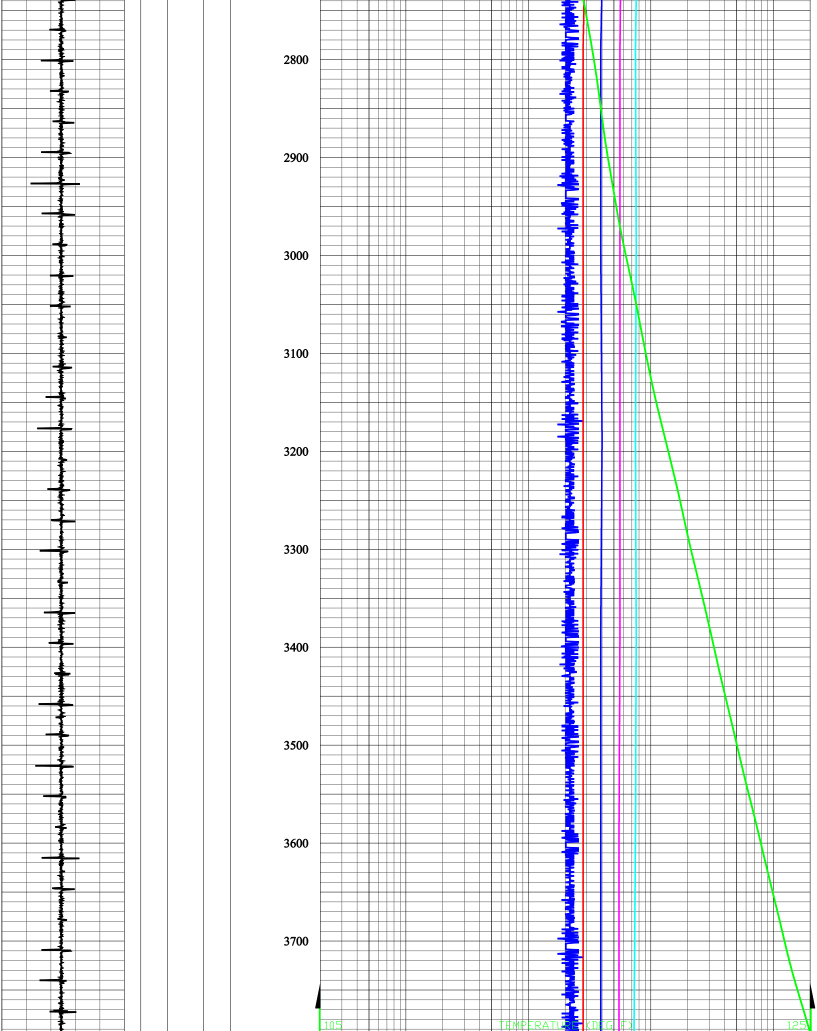
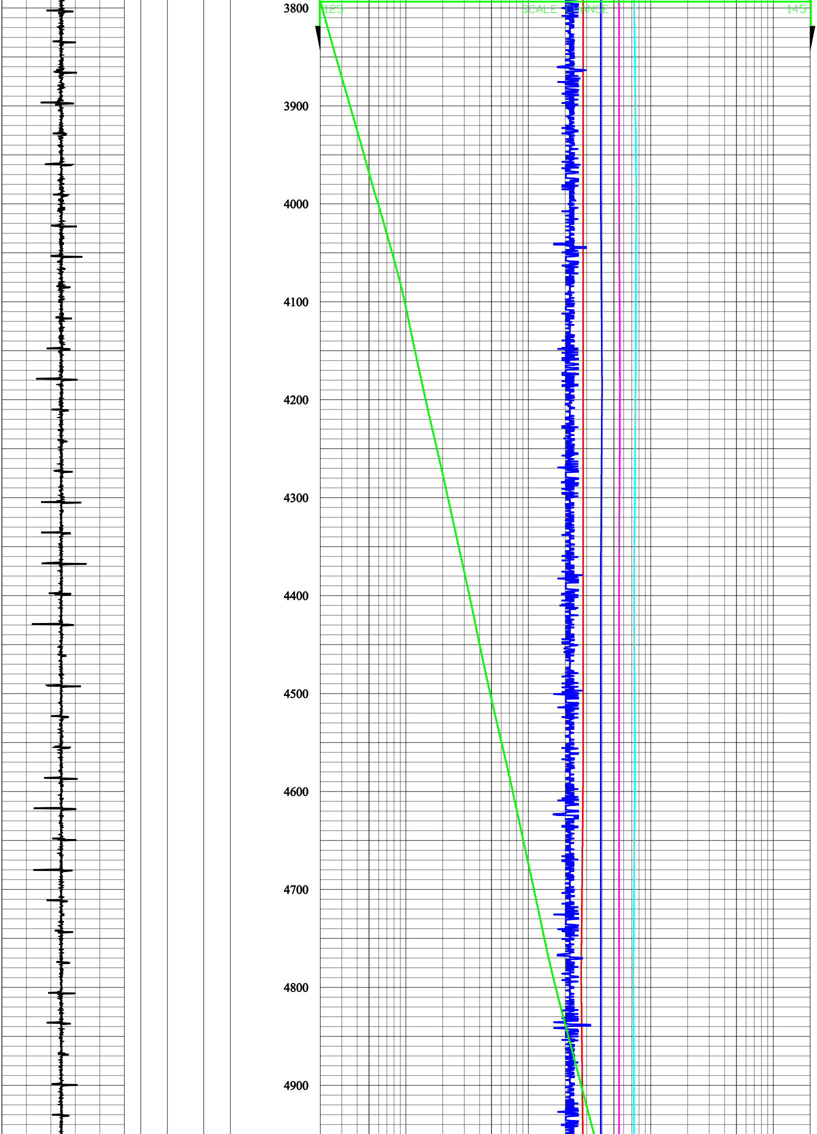
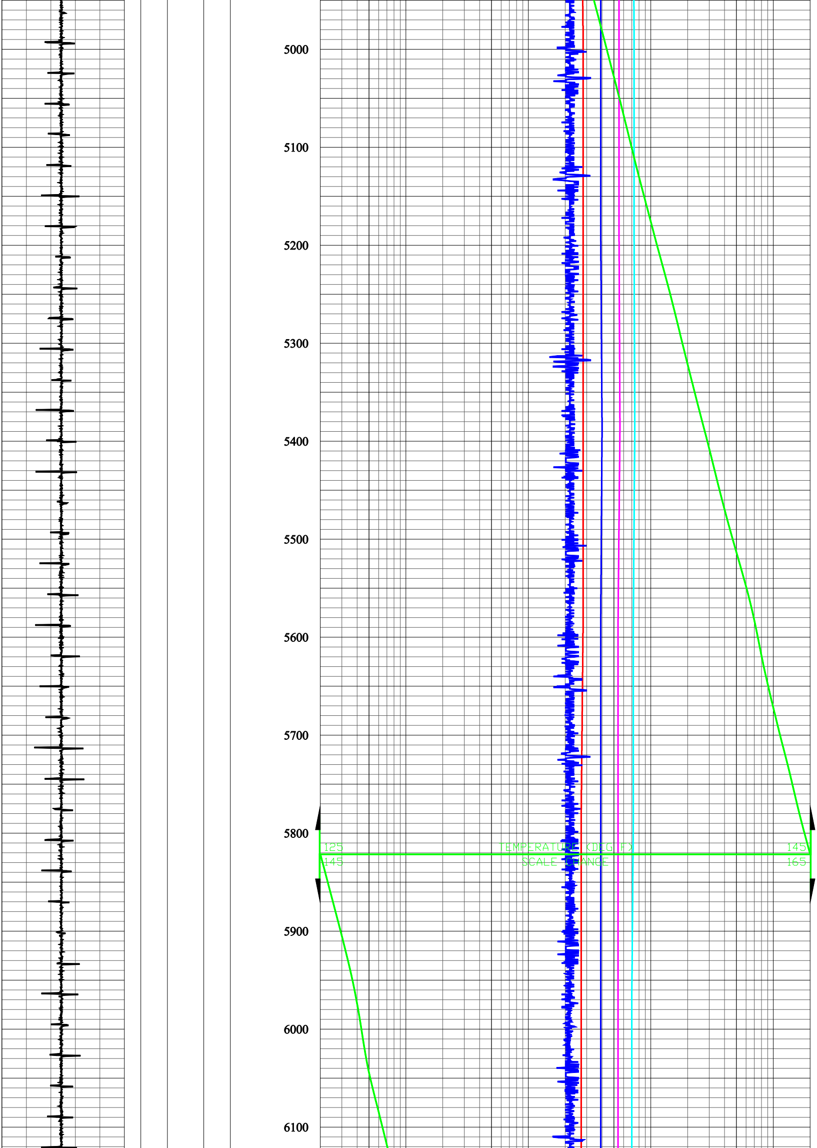
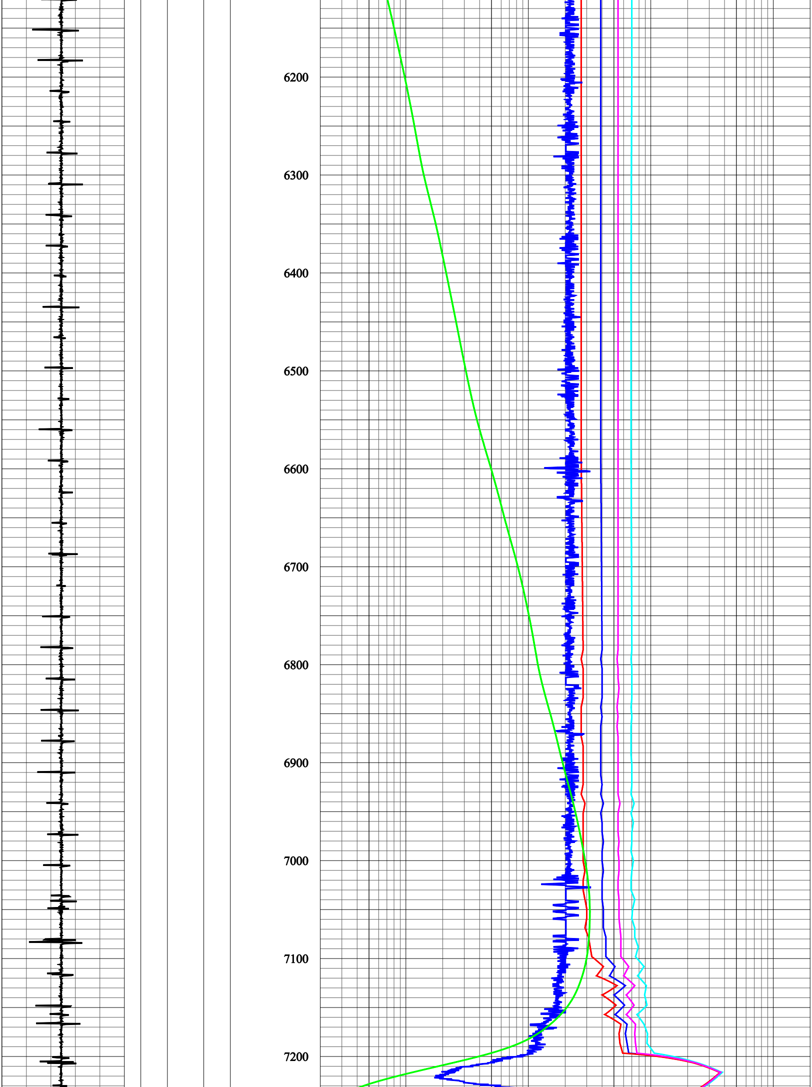
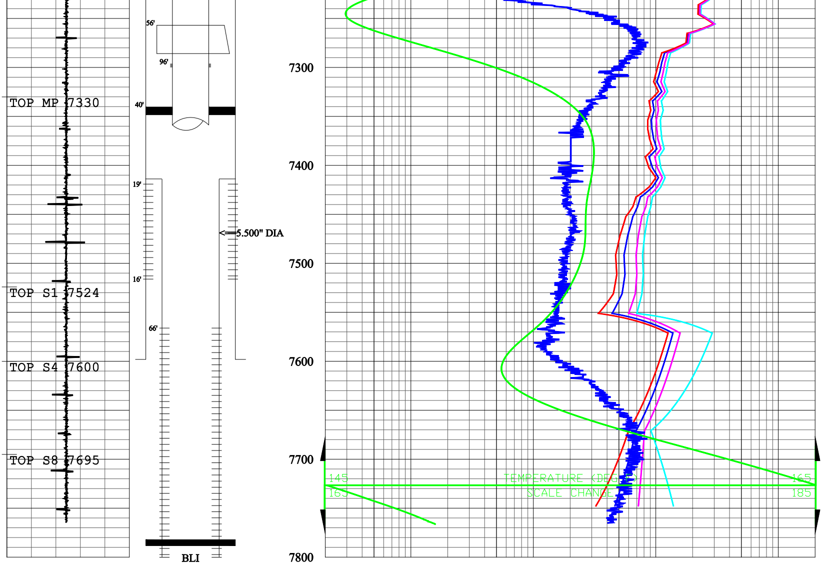
7700	9.10	8.10	6.90	6.00
7778	14.00	7.20	4.60	3.20

1355 COLLAR LOCATOR (MV) 2355

85 TEMPERATURE (DEG F) 105

0.02 AUDIO DETECTION LOG (MV) 200

-2 DIFFERENTIAL TEMPERATURE (DEG F) 2