WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE GS

VS

COMPANY: SOUTHERN CALIF. GAS CO.
WELL: PORTER 69J
FIELD: ALISO CANYON
COUNTY: LOS ANGELES STATE: CALIFORNIA
LOCATION: DISTRICT 2
OTHER SVC:

API NUMBER: 0403724224
SEC: 28 TWN: 3N RNG: 16W

PERMANENT DATUM: GROUND LEVEL ELEV: 2366 FT.
LOG MEASURED FROM KB 29' ABOVE PERM DATUM
DRILLING MEASURED FROM

-ELEVATIONS-
KB: 2395 Ft.
DF: Ft.
GL: 2366 Ft.

DATE LOG RAN	03-16-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1499
EFFECTIVE DEPTH	8125'	CASING PSI			1499
PICKUP DEPTH	8012'	INJECTION RATE	N/A		
BOT LOGGED INT	8012'	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	167.5 F.	OIL Gr.	N/A	OIL =	N/A
AT DEPTH	8012.0'	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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07:00 AM - ON LOCATION
07:30 AM - RAN IN HOLE
07:45 AM - BEGIN SURVEY
11:00 AM - RAN IN HOLE
11:15 AM - OFF LOCATION
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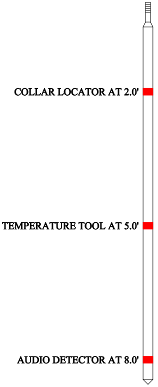
CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	874'	2.875"	6.5	SURFACE	7550'
9.625"	47	SURFACE	8234'				
5.000"	15	7552'	8013.32'				
3.500"	9.3	7550'	7674'				

STR.	PIPE DIA.	PERFORATIONS
A	9.625"	7920'-8000'.
		PACKERS: 7551'-7558'.
		MANDRELS: 4436'-4443', 7464'-7471'.
		SLEEVES: 7504'-7511'.
		NO-GO: 7538'.

TOOL DIAGRAM



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     Audio Data:  c:\data\noise.txt
--------------------------------------------------
   DEPTH |   200HZ |   600HZ |  1000HZ |  2000HZ |
--------------------------------------------------
     100 |    9.90 |    5.90 |    4.40 |    3.00 |
     250 |   10.90 |    6.10 |    4.50 |    3.00 |
     500 |   19.80 |    6.10 |    4.30 |    3.00 |
     520 |   12.50 |    6.30 |    4.80 |    3.60 |
     540 |   16.70 |    5.90 |    4.20 |    3.00 |
     560 |   11.60 |    5.60 |    4.10 |    2.80 |
     580 |   10.20 |    6.00 |    4.50 |    3.20 |
     600 |    9.30 |    5.80 |    4.30 |    2.90 |
     620 |    9.30 |    5.60 |    4.10 |    2.70 |
     640 |    9.10 |    5.60 |    4.00 |    2.70 |
     660 |    9.10 |    5.50 |    4.00 |    2.70 |
     680 |    9.20 |    5.50 |    4.00 |    2.60 |
     700 |    9.00 |    5.50 |    4.00 |    2.60 |
     720 |    9.10 |    5.50 |    4.00 |    2.60 |
     740 |    8.90 |    5.50 |    4.00 |    2.60 |
     760 |    9.10 |    5.50 |    4.00 |    2.70 |
     780 |    9.00 |    5.50 |    4.00 |    2.60 |
     800 |    8.90 |    5.50 |    4.00 |    2.60 |
     820 |    9.10 |    5.50 |    4.00 |    2.60 |
     840 |    8.80 |    5.50 |    3.90 |    2.60 |
     860 |    9.00 |    5.50 |    4.00 |    2.70 |
     880 |    8.90 |    5.50 |    4.00 |    2.70 |
     900 |    9.00 |    5.50 |    4.00 |    2.70 |
    1000 |    8.80 |    5.50 |    4.00 |    2.60 |
    1250 |    8.70 |    5.50 |    4.00 |    2.60 |
    1550 |    9.10 |    5.60 |    4.00 |    2.70 |
    1750 |    9.10 |    5.50 |    4.10 |    2.80 |
    2000 |    9.40 |    5.60 |    4.20 |    2.90 |
    2250 |    9.00 |    5.70 |    4.40 |    3.20 |
    2550 |    8.90 |    5.50 |    4.10 |    2.90 |
    2750 |    9.00 |    5.50 |    4.10 |    2.80 |
    3000 |    9.30 |    5.50 |    4.10 |    2.90 |
    3250 |    9.40 |    5.60 |    4.20 |    3.00 |
    3550 |    9.60 |    5.60 |    4.20 |    2.90 |
    3750 |    9.70 |    5.50 |    4.10 |    2.90 |
    4000 |   10.20 |    5.50 |    4.10 |    2.90 |
    4250 |   10.60 |    5.50 |    4.10 |    2.90 |
    4550 |   11.30 |    5.50 |    4.10 |    2.80 |
    4750 |   11.70 |    5.60 |    4.10 |    2.80 |
    5000 |   12.30 |    5.50 |    4.00 |    2.70 |
    5250 |   12.70 |    5.50 |    4.00 |    2.60 |
    5500 |   12.90 |    5.50 |    4.00 |    2.60 |
    5750 |   14.00 |    5.70 |    4.10 |    2.60 |
    6000 |   14.90 |    6.00 |    4.20 |    2.70 |
    6100 |   15.60 |    6.20 |    4.30 |    2.70 |
    6200 |   15.20 |    6.20 |    4.30 |    2.70 |
    6300 |   16.00 |    6.50 |    4.40 |    2.70 |
    6400 |   16.30 |    6.90 |    4.60 |    2.80 |
    6500 |   17.00 |    7.20 |    5.00 |    2.90 |
    6550 |   17.00 |    7.50 |    5.10 |    3.10 |
    6600 |   17.80 |    7.60 |    5.30 |    3.00 |
    6650 |   17.90 |    7.80 |    5.50 |    3.10 |
    6700 |   17.80 |    8.30 |    6.00 |    3.40 |
    6750 |   18.40 |    8.70 |    6.30 |    3.70 |
    6800 |   19.40 |    9.50 |    7.20 |    4.10 |
    6820 |   19.50 |    9.50 |    7.20 |    4.30 |
    6840 |   20.20 |    9.80 |    7.60 |    4.60 |
    6860 |   20.20 |   10.10 |    7.80 |    4.40 |
    6880 |   19.90 |   10.20 |    7.90 |    4.50 |
    6900 |   20.10 |   10.50 |    8.40 |    5.10 |
    6920 |   20.50 |   11.10 |    8.90 |    5.50 |
    6940 |   20.70 |   11.40 |    9.30 |    5.90 |
    6960 |   20.90 |   11.60 |    9.20 |    5.30 |
    6980 |   22.00 |   11.90 |    9.80 |    6.00 |
    7000 |   21.60 |   12.30 |   10.20 |    7.00 |
    7020 |   21.80 |   12.40 |   10.30 |    6.60 |
    7040 |   22.30 |   13.20 |   11.20 |    7.70 |
    7060 |   22.70 |   13.60 |   11.50 |    7.70 |
    7080 |   22.80 |   13.90 |   11.80 |    7.60 |
    7100 |   23.60 |   14.80 |   12.90 |    9.30 |
    7120 |   24.10 |   15.30 |   13.30 |    9.50 |
    7140 |   24.40 |   15.70 |   13.70 |    9.60 |
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 7160 |   25.00 |   16.60 |   14.90 |   11.40 |
 7180 |   25.70 |   17.20 |   15.30 |   11.50 |
 7200 |   25.60 |   18.00 |   16.40 |   12.70 |
 7220 |   26.90 |   18.50 |   16.70 |   13.10 |
 7240 |   27.30 |   19.30 |   17.50 |   13.40 |
 7260 |   28.40 |   20.80 |   19.20 |   15.70 |
 7280 |   28.40 |   20.80 |   19.10 |   15.50 |
 7300 |   29.90 |   22.20 |   20.60 |   17.00 |
 7310 |   30.60 |   23.50 |   22.10 |   18.50 |
 7320 |   30.90 |   23.30 |   21.80 |   18.20 |
 7330 |   31.00 |   23.80 |   22.40 |   18.90 |
 7340 |   31.70 |   23.50 |   22.00 |   18.20 |
 7350 |   30.30 |   23.00 |   21.40 |   17.10 |
 7360 |   31.60 |   24.60 |   23.00 |   18.70 |
 7370 |   31.30 |   24.10 |   22.50 |   17.80 |
 7380 |   32.90 |   25.60 |   24.20 |   20.10 |
 7390 |   32.20 |   25.70 |   24.20 |   20.00 |
 7400 |   32.30 |   25.30 |   23.70 |   19.40 |
 7410 |   32.00 |   24.90 |   23.30 |   18.60 |
 7420 |   33.10 |   26.70 |   25.30 |   20.80 |
 7430 |   34.90 |   28.10 |   26.70 |   21.90 |
 7440 |   35.30 |   28.30 |   26.90 |   22.90 |
 7450 |   34.80 |   28.10 |   26.60 |   22.20 |
 7460 |   28.00 |   24.40 |   23.60 |   21.50 |
 7470 |   46.20 |   39.20 |   37.50 |   31.50 |
 7480 |   45.10 |   38.50 |   37.10 |   31.60 |
 7490 |   43.50 |   36.40 |   34.80 |   28.80 |
 7500 |   83.10 |   44.30 |   42.40 |   37.20 |
 7510 |   84.20 |   56.30 |   53.80 |   47.30 |
 7520 |   84.10 |   58.80 |   56.50 |   50.60 |
 7530 |   83.00 |   54.90 |   52.50 |   46.30 |
 7540 |   88.30 |   64.40 |   62.00 |   56.00 |
 7550 |   78.20 |   73.60 |   72.80 |   68.80 |
 7560 |   69.40 |   67.60 |   67.10 |   61.70 |
 7570 |   59.40 |   57.30 |   56.60 |   52.30 |
 7580 |   55.30 |   52.20 |   51.40 |   47.00 |
 7590 |   56.40 |   52.80 |   51.90 |   48.80 |
 7600 |   51.50 |   47.60 |   46.60 |   43.60 |
 7610 |   48.50 |   43.80 |   42.90 |   39.80 |
 7620 |   49.70 |   44.60 |   43.50 |   40.80 |
 7630 |   50.10 |   46.00 |   45.00 |   42.40 |
 7640 |   47.20 |   42.80 |   41.50 |   38.10 |
 7650 |   38.60 |   33.70 |   32.50 |   28.80 |
 7660 |   43.20 |   38.70 |   37.70 |   34.70 |
 7670 |   36.40 |   30.80 |   29.50 |   26.20 |
 7680 |   34.80 |   28.70 |   27.50 |   23.70 |
 7690 |   39.80 |   34.90 |   33.90 |   31.20 |
 7700 |   33.10 |   28.80 |   27.70 |   24.30 |
 7710 |   35.10 |   31.50 |   30.60 |   27.20 |
 7720 |   29.90 |   26.00 |   24.70 |   20.90 |
 7730 |   31.20 |   28.60 |   27.70 |   24.20 |
 7740 |   17.30 |   11.80 |    9.40 |    7.20 |
 7750 |   12.90 |    7.30 |    6.00 |    4.70 |
 7800 |    9.20 |    5.80 |    4.40 |    3.20 |
 7900 |   10.30 |    5.90 |    4.30 |    3.00 |
 8012 |  358.30 |  198.10 |  184.30 |  163.40 |
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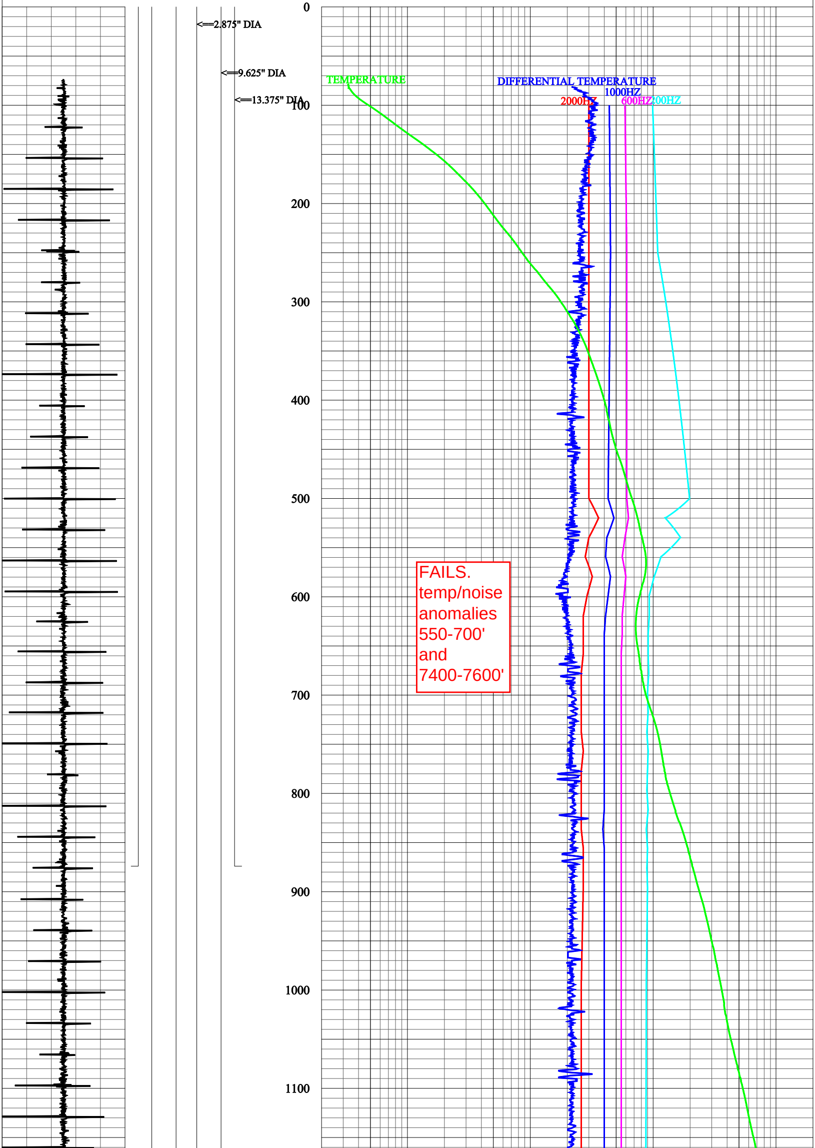
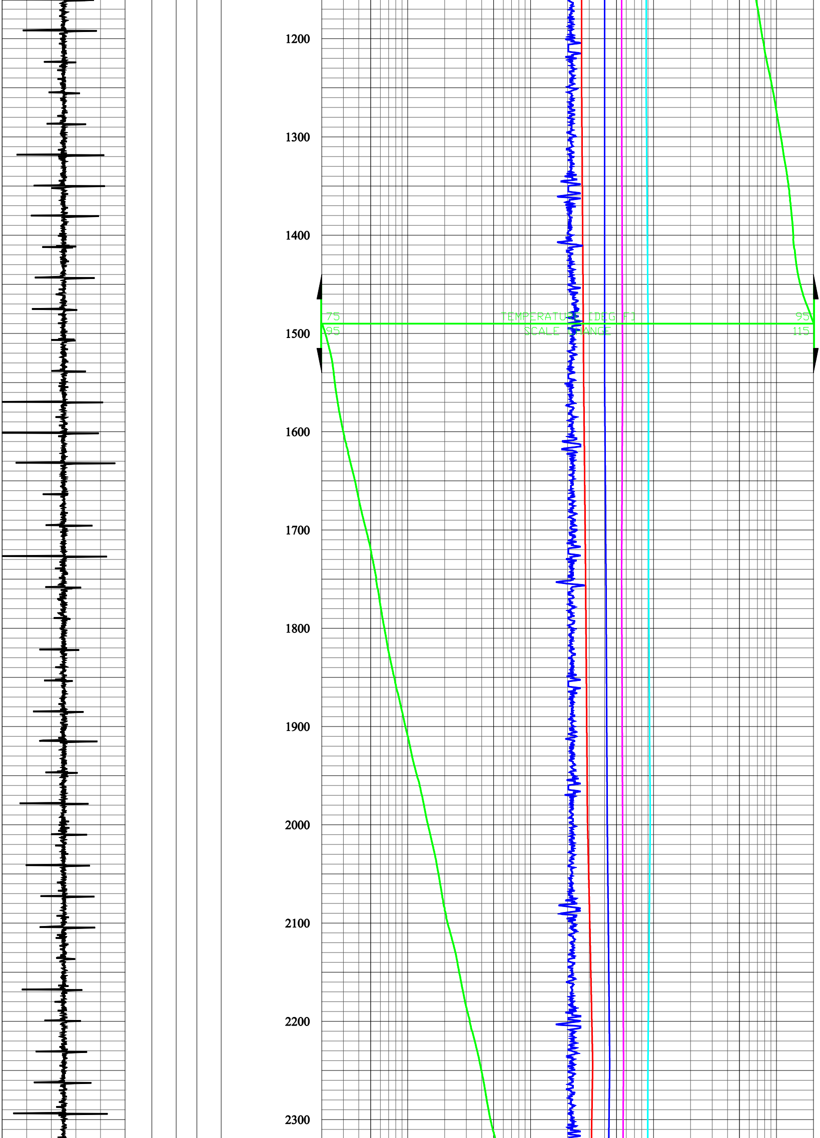
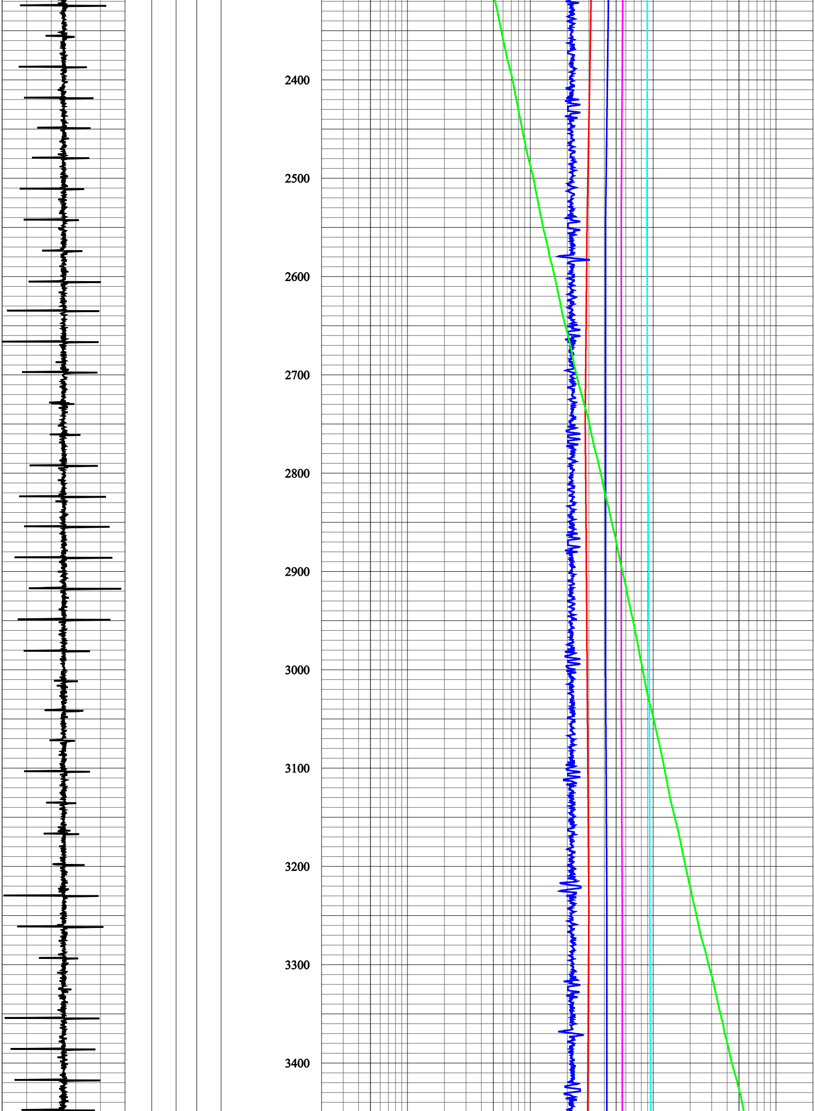
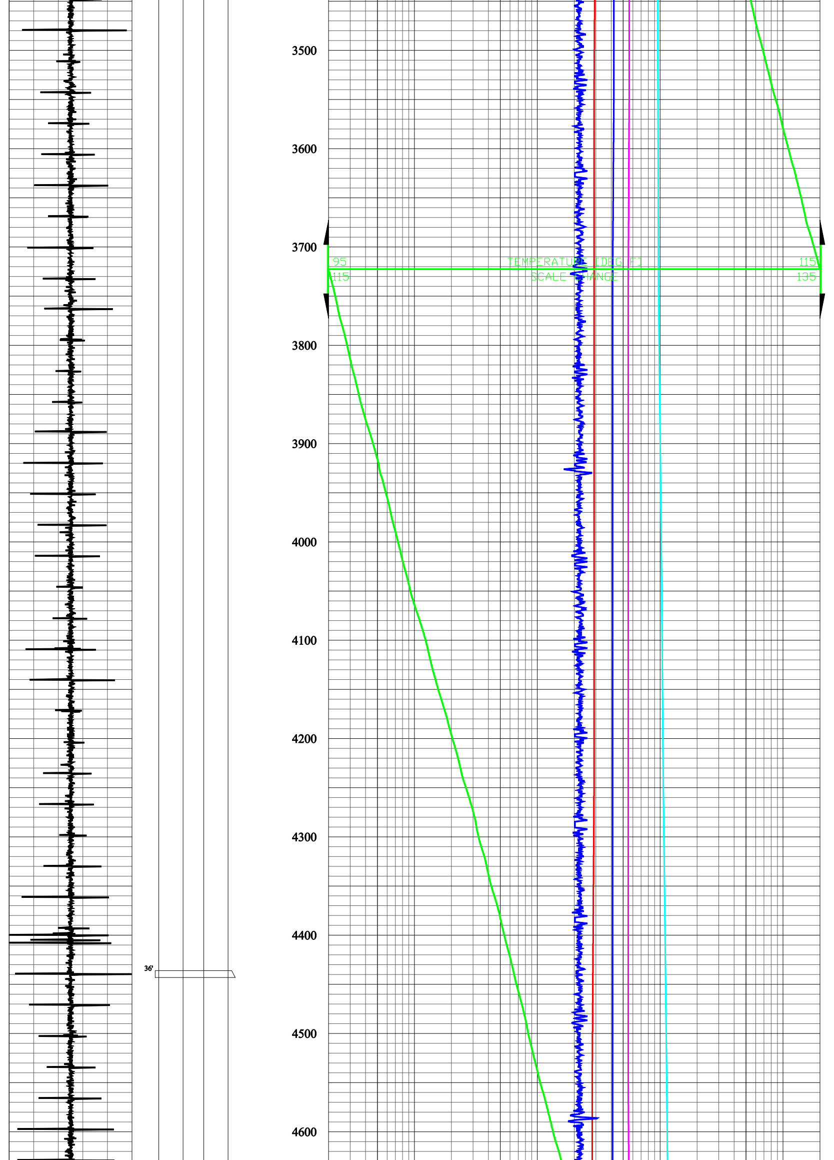
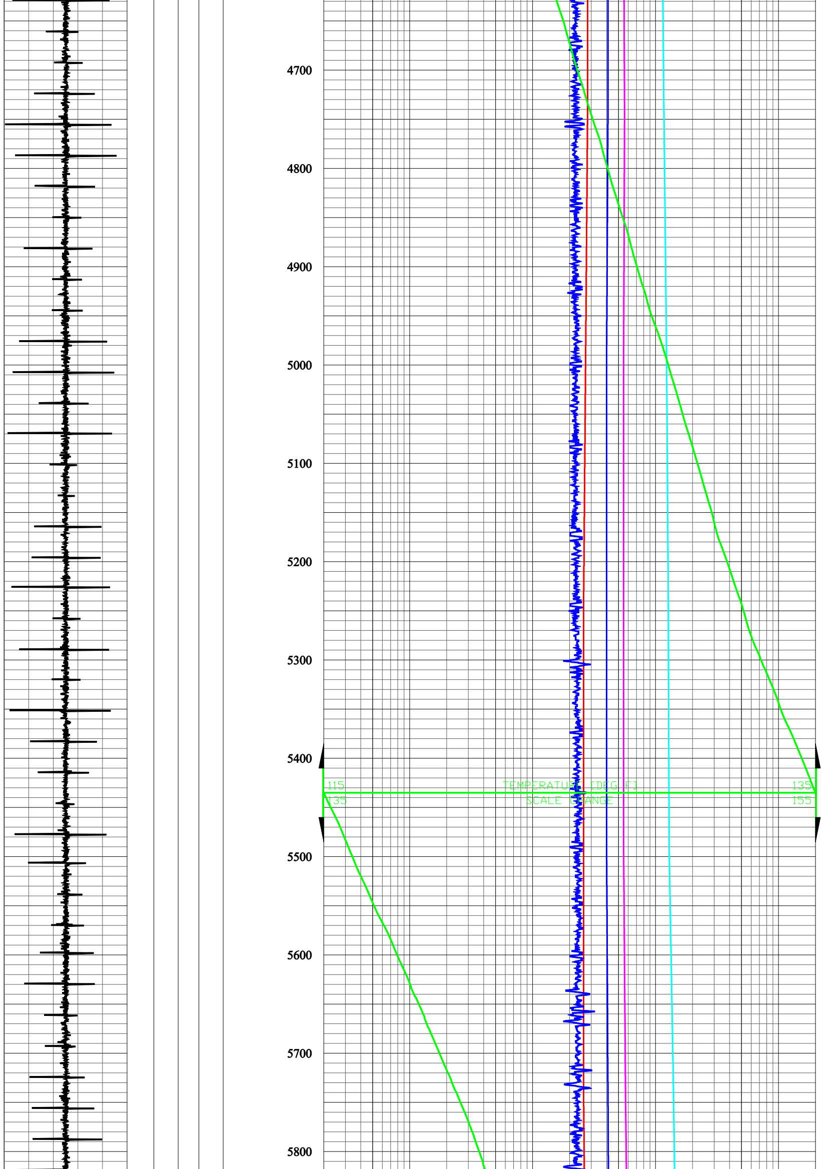
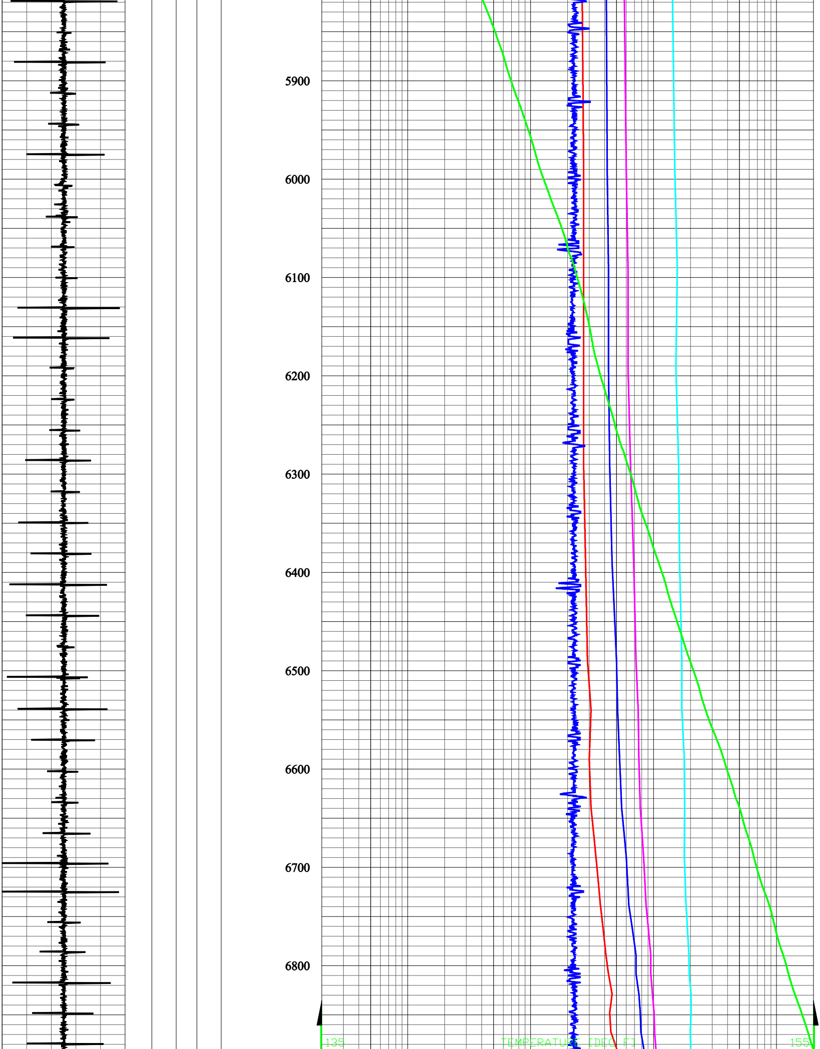
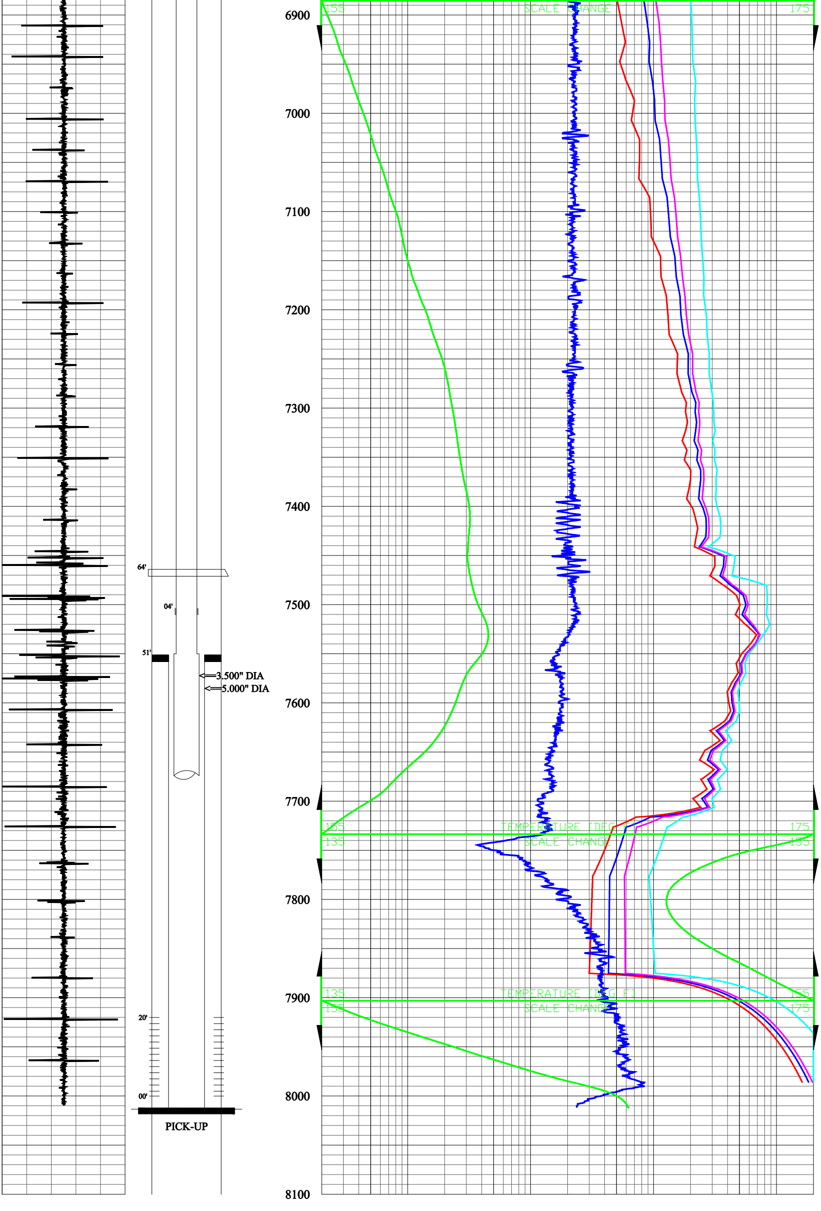
1525 COLLAR LOCATOR [MV] 1925

75 TEMPERATURE [DEG F] 95

0.02 AUDIO DETECTION LOG [MV] 200

-2 DIFFERENTIAL TEMPERATURE [DEG F] 2



FAILS.
temp/noise
anomalies
550-700'
and
7400-7600'