WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE GS ES	COMPANY: SOUTHERN CALIF. GAS CO. WELL: STANDARD SESNON 10 FIELD: ALISO CANYON COUNTY: LOS ANGELES STATE: CALIFORNIA
LOCATION: DISTRICT 2 API NUMBER: 0403700040 SEC: 29 TWN: 3N RNG: 16W	OTHER SVC:
PERMANENT DATUM: GROUND LEVEL ELEV: 2622.00' LOG MEASURED FROM KB 7' ABOVE PERM DATUM DRILLING MEASURED FROM	-ELEVATIONS- KB: 2629.00 Ft. DF: Ft. GL: 2622.00 Ft.

DATE LOG RAN	06-02-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1255
EFFECTIVE DEPTH	8877'	CASING PSI			1255
PICKUP DEPTH	8791'	INJECTION RATE	N|A		
BOT LOGGED INT	8791'	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	GAS				
WELL STATUS	STATIC			PRODUCTION DATA	
MAX TEMPERATURE	181.0 F.	OIL Gr.		OIL =	
AT DEPTH	8575.0'	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	PACKER				

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
07:15 AM - RAN IN HOLE
07:20 AM - BEGIN SURVEY
10:30 AM - PULLED OUT OF HOLE
10:45 AM - OFF LOCATION
SAND TAG MARKERS: 8310' TOP MP
                  8543' TOP S1
                  8610' TOP S4
                  8643' TOP S6
                  8710' TOP S8
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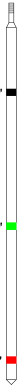
CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.625"	54.5	SURFACE	823'				
7.000"	23	SURFACE	8612'				
5.000"	18	8585'	8877'				
3.500"	9.3	SURFACE	7956'				

STR.	PIPE DIA.	PERFORATIONS
A	5.000"	8626'-8639', 8648'-8685', 8706'-8737'.
		PACKERS: 7950.7'-7956.38'.
		MANDRELS: 7832.7'-7838.85'.
		SLEEVES: 7872.1'-7875.58'.
		NO-GO: 7906.8'.

AUDIO DETECTOR TOOL



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     Audio Data:  C:\data\NOISE.txt
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   DEPTH |   200HZ |   600HZ |  1000HZ |  2000HZ |
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     100 |   15.90 |    7.40 |    4.30 |    1.50 |
     120 |   15.90 |    7.50 |    4.40 |    1.50 |
     140 |   15.80 |    7.40 |    4.30 |    1.50 |
     160 |   15.80 |    7.50 |    4.40 |    1.60 |
     180 |   15.70 |    7.40 |    4.30 |    1.50 |
     200 |   15.80 |    7.50 |    4.40 |    1.50 |
     220 |   15.80 |    7.40 |    4.30 |    1.50 |
     240 |   15.90 |    7.40 |    4.30 |    1.50 |
     260 |   15.90 |    7.40 |    4.30 |    1.50 |
     280 |   15.80 |    7.40 |    4.30 |    1.50 |
     300 |   15.90 |    7.50 |    4.40 |    1.50 |
     320 |   15.80 |    7.40 |    4.30 |    1.50 |
     340 |   15.90 |    7.50 |    4.30 |    1.50 |
     360 |   15.70 |    7.40 |    4.30 |    1.50 |
     380 |   15.60 |    7.40 |    4.30 |    1.60 |
     400 |   15.80 |    7.50 |    4.30 |    1.50 |
     420 |   15.90 |    7.50 |    4.30 |    1.50 |
     440 |   15.70 |    7.40 |    4.30 |    1.50 |
     460 |   15.90 |    7.40 |    4.30 |    1.50 |
     480 |   16.00 |    7.50 |    4.30 |    1.50 |
     500 |   15.70 |    7.40 |    4.30 |    1.50 |
     520 |   15.80 |    7.40 |    4.30 |    1.50 |
     540 |   15.60 |    7.30 |    4.30 |    1.50 |
     561 |   15.60 |    7.30 |    4.30 |    1.50 |
     580 |   15.80 |    7.40 |    4.30 |    1.50 |
     600 |   15.70 |    7.30 |    4.30 |    1.50 |
     621 |   15.60 |    7.40 |    4.30 |    1.50 |
     640 |   15.70 |    7.40 |    4.30 |    1.50 |
     660 |   15.50 |    7.30 |    4.20 |    1.50 |
     680 |   15.50 |    7.30 |    4.30 |    1.50 |
     700 |   15.60 |    7.40 |    4.40 |    1.70 |
     720 |   15.40 |    7.20 |    4.30 |    1.50 |
     740 |   15.20 |    7.20 |    4.30 |    1.50 |
     760 |   15.20 |    7.20 |    4.30 |    1.50 |
     780 |   15.60 |    7.30 |    4.30 |    1.60 |
     800 |   15.60 |    7.40 |    4.30 |    1.60 |
     820 |   15.50 |    7.30 |    4.30 |    1.60 |
     840 |   15.40 |    7.30 |    4.30 |    1.60 |
     860 |   15.40 |    7.30 |    4.30 |    1.50 |
     880 |   15.40 |    7.40 |    4.30 |    1.50 |
     900 |   14.80 |    7.10 |    4.30 |    1.50 |
    1000 |   14.80 |    7.20 |    4.30 |    1.50 |
    1250 |   14.60 |    7.10 |    4.20 |    1.50 |
    1500 |   15.00 |    7.20 |    4.30 |    1.60 |
    1750 |   14.90 |    7.10 |    4.30 |    1.50 |
    2000 |   14.80 |    7.10 |    4.30 |    1.50 |
    2250 |   14.90 |    7.20 |    4.30 |    1.60 |
    2500 |   14.80 |    7.20 |    4.30 |    1.50 |
    2750 |   14.60 |    7.20 |    4.40 |    1.60 |
    3000 |   14.50 |    7.10 |    4.30 |    1.60 |
    3250 |   14.50 |    7.10 |    4.30 |    1.60 |
    3500 |   14.50 |    7.10 |    4.30 |    1.60 |
    3750 |   14.60 |    7.20 |    4.40 |    1.60 |
    4000 |   14.50 |    7.10 |    4.40 |    1.60 |
    4250 |   14.00 |    7.00 |    4.30 |    1.60 |
    4500 |   14.20 |    7.00 |    4.40 |    1.60 |
    4750 |   14.30 |    7.10 |    4.40 |    1.60 |
    5000 |   14.10 |    7.10 |    4.40 |    1.60 |
    5251 |   14.10 |    7.00 |    4.40 |    1.60 |
    5300 |   14.10 |    7.10 |    4.40 |    1.70 |
    5750 |   13.90 |    7.00 |    4.40 |    1.70 |
    6000 |   13.90 |    7.00 |    4.40 |    1.70 |
    6250 |   13.70 |    6.90 |    4.40 |    1.70 |
    6500 |   13.60 |    7.00 |    4.40 |    1.70 |
    6750 |   13.50 |    7.00 |    4.40 |    1.70 |
    7000 |   13.30 |    6.90 |    4.40 |    1.70 |
    7250 |   13.20 |    6.80 |    4.40 |    1.70 |
    7501 |   13.10 |    6.80 |    4.40 |    1.70 |
    7751 |   12.90 |    6.70 |    4.40 |    1.70 |
    7760 |   13.10 |    6.80 |    4.50 |    1.80 |
    7770 |   13.00 |    6.80 |    4.40 |    1.70 |
    7780 |   13.10 |    6.80 |    4.50 |    1.80 |
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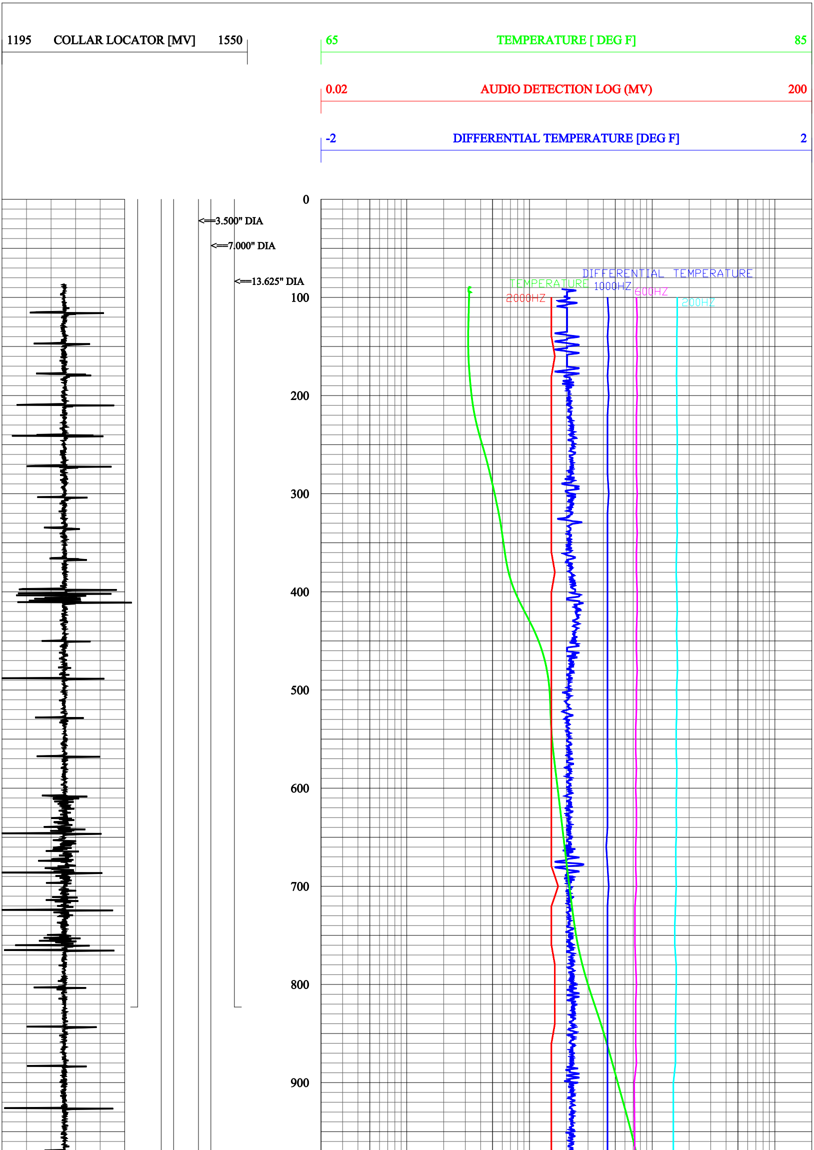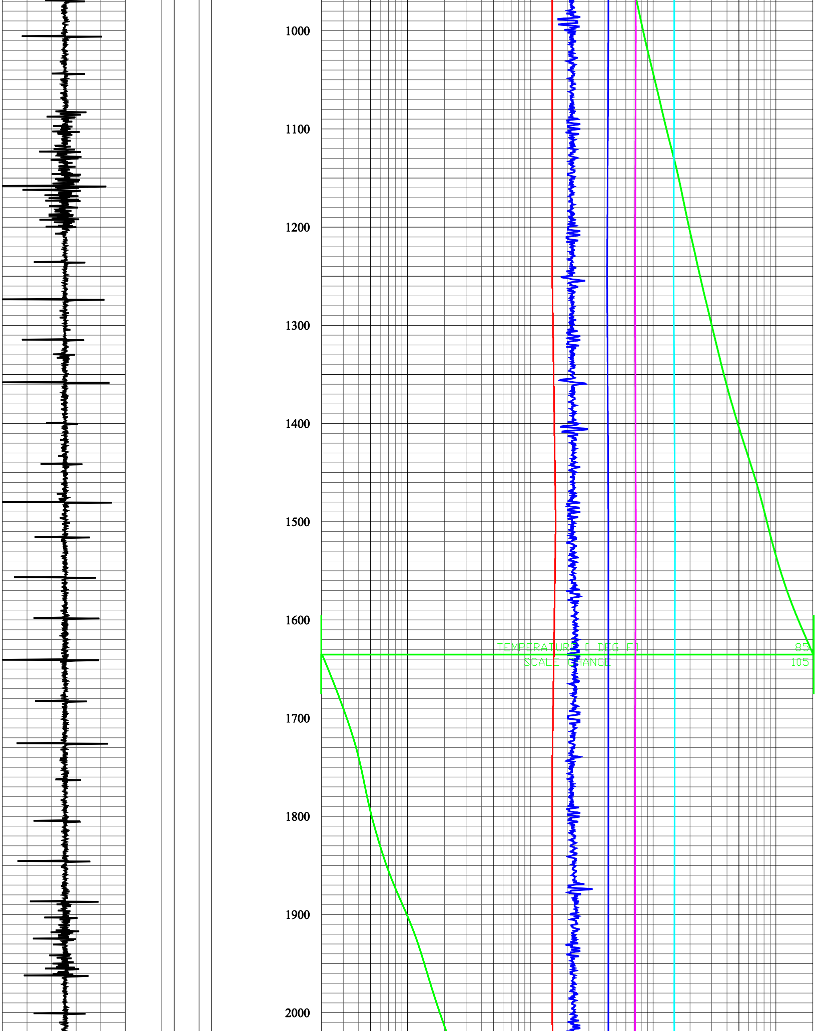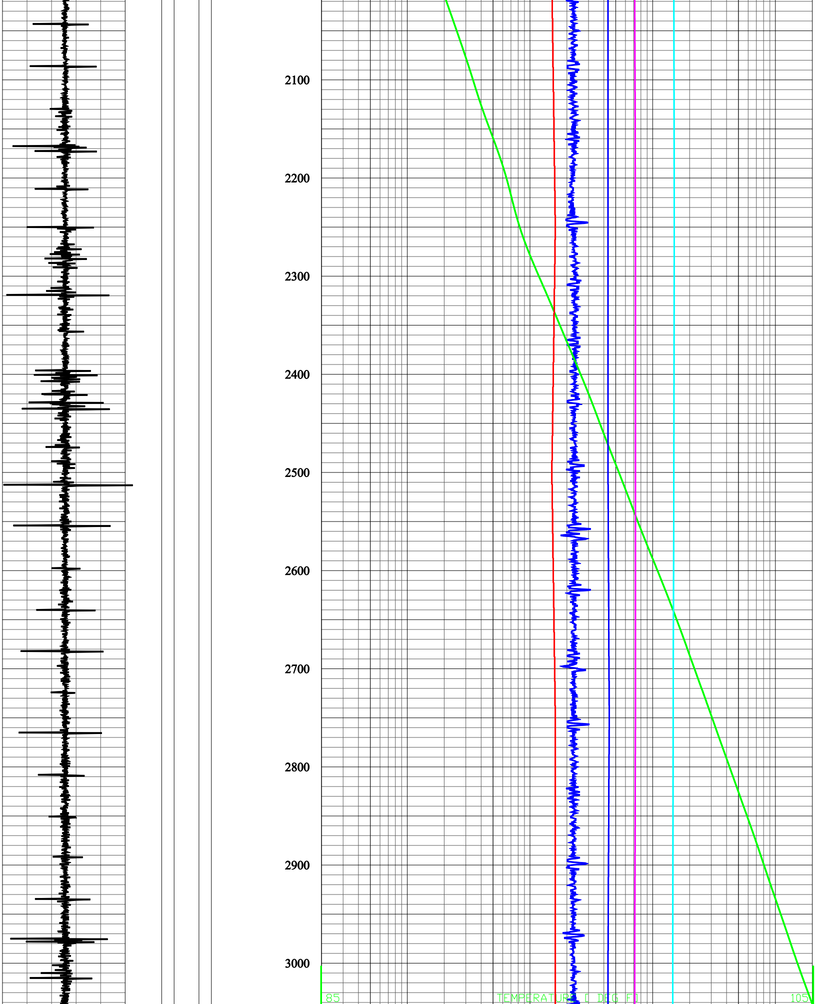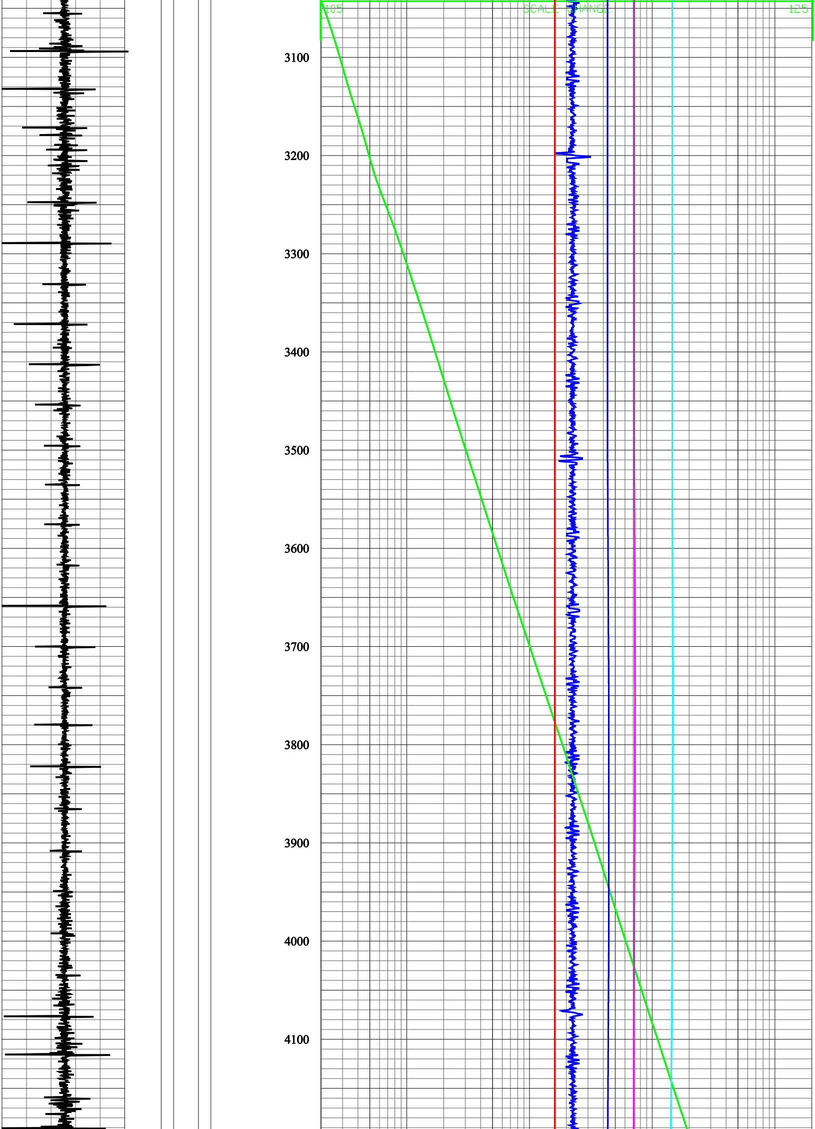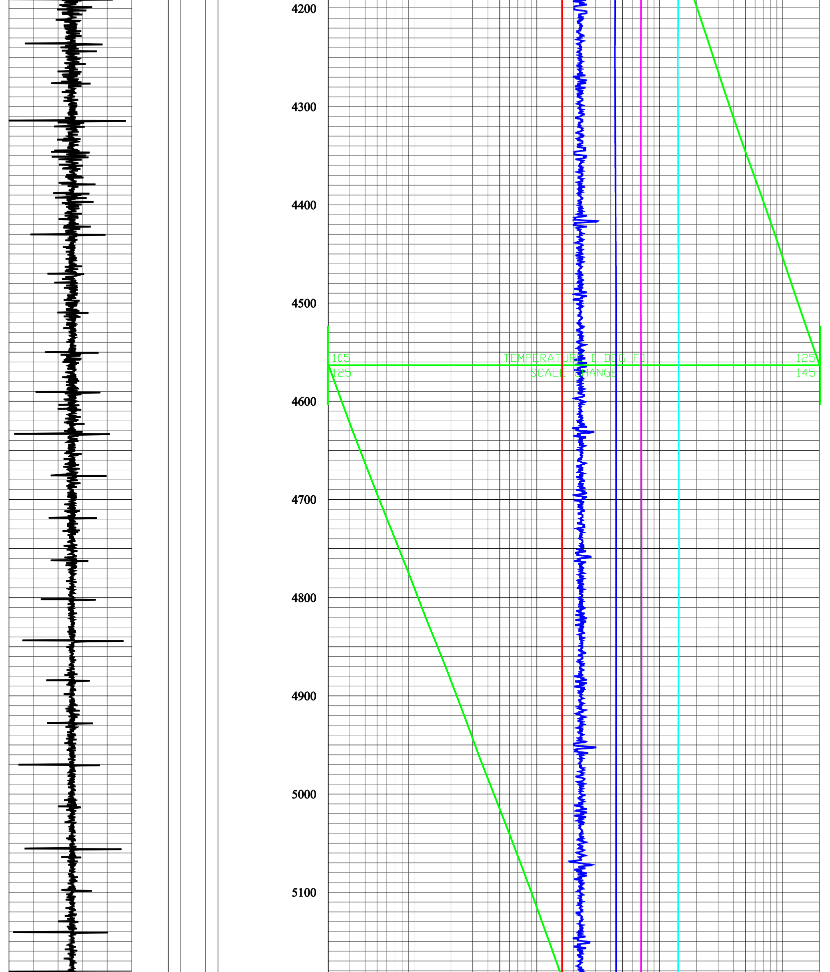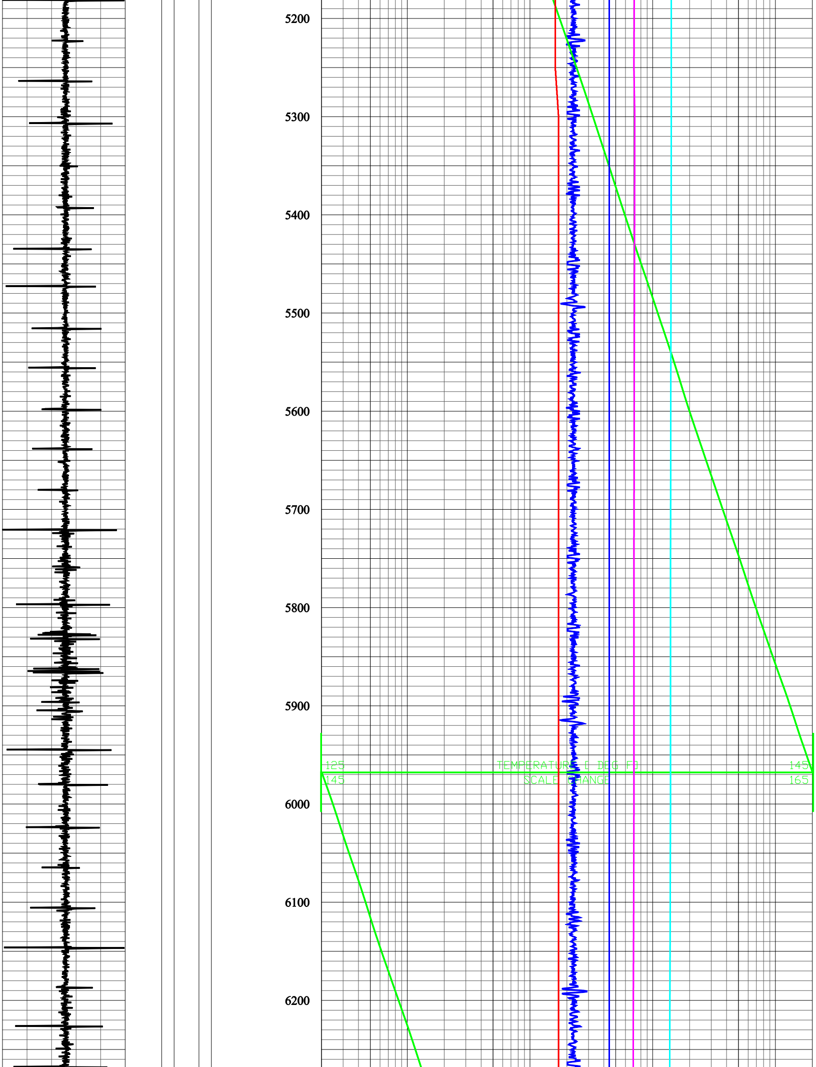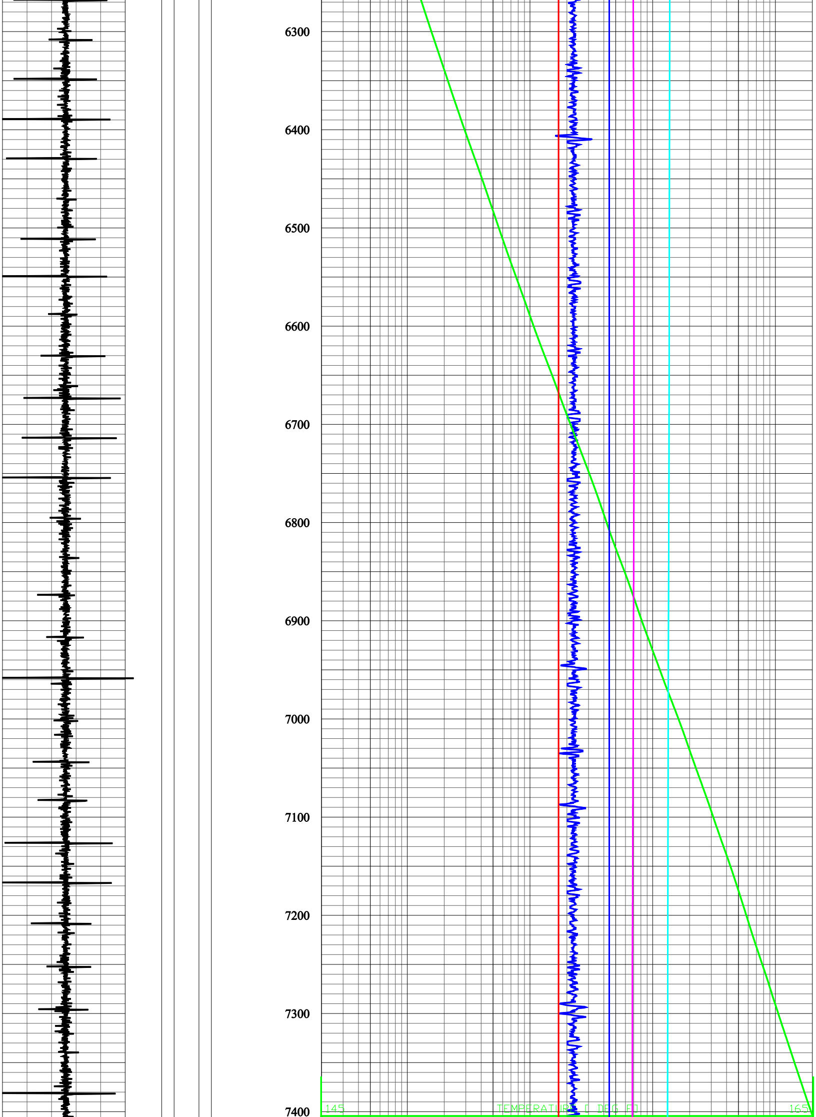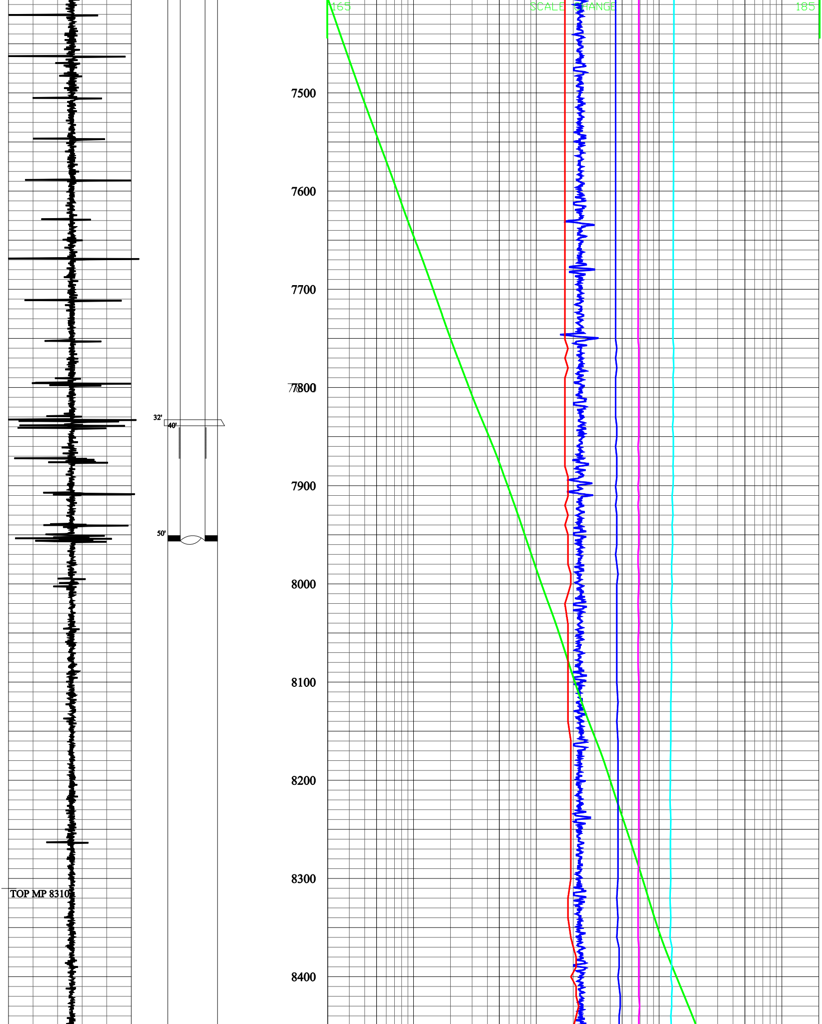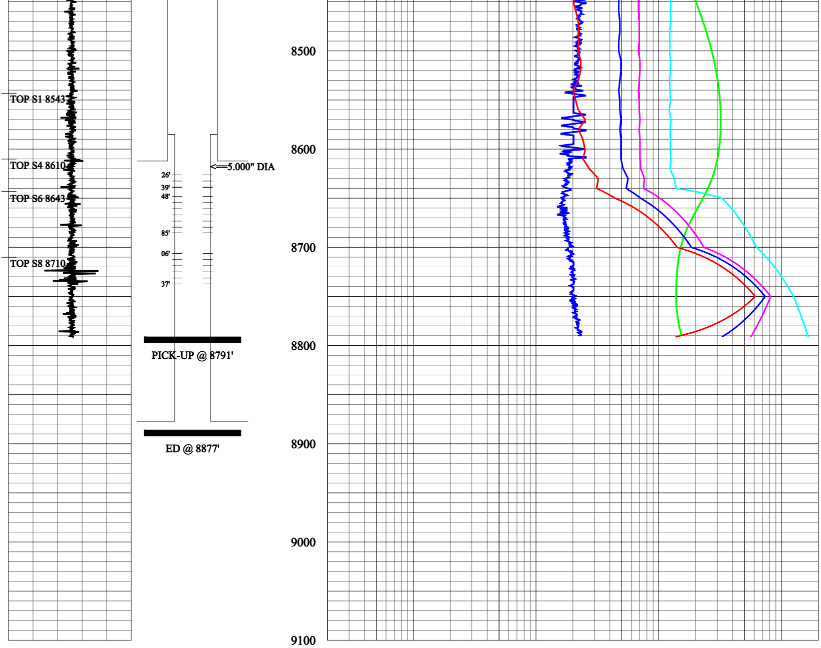```
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7800 |   13.00 |    6.80 |    4.40 |    1.70 |
7810 |   13.00 |    6.80 |    4.40 |    1.70 |
7820 |   12.90 |    6.80 |    4.40 |    1.70 |
7830 |   13.00 |    6.80 |    4.40 |    1.70 |
7840 |   12.80 |    6.80 |    4.50 |    1.70 |
7850 |   13.00 |    6.80 |    4.50 |    1.70 |
7860 |   13.00 |    6.70 |    4.40 |    1.70 |
7871 |   13.00 |    6.80 |    4.50 |    1.70 |
7880 |   12.90 |    6.80 |    4.50 |    1.70 |
7891 |   13.00 |    6.80 |    4.50 |    1.80 |
7901 |   12.90 |    6.70 |    4.40 |    1.80 |
7911 |   12.70 |    6.80 |    4.50 |    1.80 |
7920 |   12.80 |    6.70 |    4.40 |    1.70 |
7930 |   12.90 |    6.80 |    4.50 |    1.80 |
7940 |   12.70 |    6.80 |    4.50 |    1.70 |
7950 |   12.80 |    6.80 |    4.50 |    1.80 |
7960 |   12.80 |    6.80 |    4.50 |    1.80 |
7970 |   12.70 |    6.70 |    4.40 |    1.80 |
7980 |   12.60 |    6.70 |    4.50 |    1.80 |
7990 |   12.60 |    6.80 |    4.60 |    1.90 |
8000 |   12.70 |    6.80 |    4.50 |    1.90 |
8020 |   12.50 |    6.70 |    4.50 |    1.70 |
8041 |   12.70 |    6.80 |    4.50 |    1.80 |
8060 |   12.50 |    6.70 |    4.50 |    1.80 |
8081 |   12.60 |    6.70 |    4.50 |    1.80 |
8101 |   12.50 |    6.80 |    4.50 |    1.80 |
8121 |   12.40 |    6.80 |    4.60 |    1.80 |
8140 |   12.40 |    6.80 |    4.50 |    1.80 |
8160 |   12.40 |    6.80 |    4.60 |    1.90 |
8180 |   12.30 |    6.80 |    4.60 |    1.90 |
8200 |   12.30 |    6.80 |    4.60 |    1.90 |
8220 |   12.20 |    6.80 |    4.60 |    1.90 |
8240 |   12.40 |    6.80 |    4.60 |    1.90 |
8260 |   12.30 |    6.80 |    4.60 |    1.90 |
8280 |   12.30 |    6.80 |    4.60 |    1.90 |
8300 |   12.40 |    6.70 |    4.60 |    1.90 |
8320 |   12.20 |    6.70 |    4.50 |    1.80 |
8340 |   12.40 |    6.70 |    4.60 |    1.80 |
8360 |   12.20 |    6.70 |    4.50 |    1.90 |
8371 |   12.70 |    6.80 |    4.70 |    2.00 |
8380 |   12.60 |    6.80 |    4.70 |    2.10 |
8390 |   12.60 |    6.80 |    4.70 |    2.10 |
8400 |   12.40 |    6.80 |    4.60 |    1.90 |
8410 |   12.70 |    6.80 |    4.70 |    2.10 |
8420 |   12.60 |    6.80 |    4.80 |    2.10 |
8430 |   12.60 |    6.90 |    4.80 |    2.20 |
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8450 |   12.50 |    6.80 |    4.70 |    2.00 |
8460 |   12.40 |    6.80 |    4.70 |    2.10 |
8470 |   12.50 |    6.90 |    4.80 |    2.20 |
8480 |   12.20 |    6.90 |    4.80 |    2.20 |
8490 |   12.30 |    6.90 |    4.70 |    2.20 |
8500 |   12.20 |    6.80 |    4.70 |    2.20 |
8510 |   12.40 |    7.00 |    4.90 |    2.30 |
8521 |   12.40 |    7.00 |    4.90 |    2.30 |
8530 |   12.20 |    6.90 |    4.80 |    2.20 |
8540 |   12.30 |    6.80 |    4.70 |    2.00 |
8551 |   12.40 |    6.90 |    4.80 |    2.10 |
8560 |   12.10 |    6.90 |    4.80 |    2.20 |
8570 |   12.50 |    7.00 |    4.90 |    2.50 |
8580 |   12.30 |    6.90 |    4.80 |    2.20 |
8590 |   12.40 |    7.00 |    4.90 |    2.40 |
8601 |   12.40 |    7.00 |    4.90 |    2.50 |
8610 |   12.50 |    7.00 |    4.90 |    2.40 |
8620 |   12.30 |    7.10 |    5.10 |    2.70 |
8630 |   13.30 |    7.60 |    5.60 |    3.20 |
8640 |   13.80 |    7.50 |    5.40 |    3.10 |
8650 |   32.70 |   10.20 |    7.10 |    4.40 |
8700 |   62.60 |   23.30 |   18.40 |   14.10 |
8750 |  124.80 |   81.30 |   73.40 |   60.90 |
8791 |  164.40 |   56.10 |   32.70 |   13.70 |
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