WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE GS BFW	COMPANY: SOUTHERN CALIF. GAS CO. WELL: STANDARD SESNON 12 FIELD: ALISO CANYON COUNTY: LOS ANGELES	STATE: CALIFORNIA
	LOCATION: DISTRICT 2 API NUMBER: 0403700764 SEC: 29 TWN: 3N RNG: 16W	OTHER SVC:
	PERMANENT DATUM: GROUND LEVEL ELEV: 2276.00' LOG MEASURED FROM KB 9' ABOVE PERM DATUM DRILLING MEASURED FROM	-ELEVATIONS- KB: 2287.00 Ft. DF: Ft. GL: 2276.00 Ft.

DATE LOG RAN	04-20-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			2140
EFFECTIVE DEPTH	9107'	CASING PSI			2140
PICKUP DEPTH	9068'	INJECTION RATE	N|A		
BOT LOGGED INT	9068'	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	196.7 F	OIL Gr.	N|A	OIL =	N|A
AT DEPTH	9068.0'	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	PACKERS				

Equipment Data

Collar Locator ■ 1.375"		
Temperature Tool 🟩 1.375"		
Audio Detector 🟥 1.375"		

Remarks/Survey Results

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12:00PM - ON LOCATION
12:15PM - RAN IN HOLE
12:30PM - BEGIN SURVEY
04:00PM - PULL OUT OF HOLE
04:30PM - OFF LOCATION

SAND TAG MARKERS: 8552' TOP MP
                  8770' TOP S1
                  8826' TOP S4
                  8938' TOP S8
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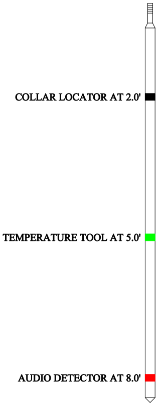
CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	790'	2.375"	4.70	8440'	8966'
9.625"	40.0	SURFACE	3770'				
6.625"	28.0	3600'	9112'				
2.875"	6.50	SURFACE	8440'				

STR.	PIPE DIA.	PERFORATIONS
A	6.625"	8825'-8870', 8890'-8935', 8963'-9045', 9055'-9107'.
		PACKERS: 8755', 8950'.
		GAS LIFT MANDRELS: 2924', 5044', 6869', 8402'.
		SLIDING SLEEVES: 8820'.
		NO-GO: 8435', 8930', 8965'.

TOOL DIAGRAM



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     Audio Data:  C:\data\NOISE.txt
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   DEPTH |   200HZ |   600HZ |  1000HZ |  2000HZ |
--------------------------------------------------
     100 |   15.20 |    6.60 |    3.60 |    0.70 |
     250 |   15.10 |    6.70 |    3.70 |    0.80 |
     500 |   15.10 |    6.70 |    3.70 |    0.70 |
     680 |   15.30 |    6.60 |    3.60 |    0.70 |
     700 |   15.10 |    6.60 |    3.70 |    0.70 |
     720 |   14.90 |    6.50 |    3.60 |    0.70 |
     760 |   14.90 |    6.50 |    3.60 |    0.70 |
     780 |   14.90 |    6.60 |    3.60 |    0.70 |
     800 |   14.90 |    6.60 |    3.60 |    0.70 |
     820 |   14.90 |    6.60 |    3.70 |    0.70 |
     840 |   15.50 |    6.60 |    3.70 |    0.70 |
     860 |   15.20 |    6.60 |    3.70 |    0.70 |
     880 |   14.70 |    6.50 |    3.60 |    0.70 |
    1000 |   15.00 |    6.60 |    3.60 |    0.70 |
    1250 |   14.90 |    6.60 |    3.60 |    0.70 |
    1500 |   14.70 |    6.50 |    3.70 |    0.80 |
    1750 |   14.60 |    6.60 |    3.70 |    0.80 |
    2000 |   14.60 |    6.60 |    3.70 |    0.80 |
    2250 |   14.60 |    6.50 |    3.70 |    0.80 |
    2500 |   15.30 |    7.00 |    3.70 |    0.80 |
    2600 |   15.70 |    7.70 |    4.10 |    1.00 |
    2620 |   15.70 |    7.50 |    3.80 |    0.80 |
    2640 |   15.80 |    7.70 |    3.80 |    0.90 |
    2660 |   16.10 |    7.80 |    3.90 |    0.90 |
    2680 |   15.80 |    7.90 |    3.90 |    0.90 |
    2700 |   16.20 |    8.60 |    3.90 |    1.00 |
    2720 |   16.50 |    8.70 |    3.90 |    1.10 |
    2740 |   16.50 |    8.80 |    4.00 |    1.20 |
    2760 |   16.90 |    9.30 |    4.20 |    1.40 |
    2780 |   17.20 |    9.90 |    4.30 |    1.60 |
    2800 |   17.50 |   10.20 |    4.50 |    1.80 |
    2820 |   17.90 |   10.50 |    4.60 |    2.00 |
    2840 |   18.00 |   10.80 |    4.80 |    2.30 |
    2860 |   18.60 |   11.70 |    4.90 |    2.40 |
    2880 |   18.70 |   11.70 |    5.50 |    3.10 |
    2900 |   17.30 |   10.60 |    5.90 |    3.40 |
    3000 |   17.00 |   10.40 |    5.00 |    2.00 |
    3250 |   15.70 |    8.70 |    4.10 |    1.20 |
    3500 |   15.60 |    8.40 |    4.10 |    1.00 |
    3520 |   15.30 |    8.00 |    4.00 |    1.00 |
    3540 |   15.30 |    8.00 |    4.00 |    0.90 |
    3560 |   15.30 |    7.90 |    3.90 |    0.90 |
    3580 |   15.00 |    7.70 |    3.90 |    0.90 |
    3600 |   15.10 |    7.90 |    4.00 |    0.80 |
    3620 |   15.20 |    7.50 |    3.90 |    0.90 |
    3640 |   15.10 |    7.40 |    3.90 |    0.90 |
    3660 |   14.70 |    7.20 |    3.90 |    0.80 |
    3680 |   14.70 |    7.10 |    3.90 |    0.80 |
    3700 |   14.50 |    6.90 |    3.80 |    0.80 |
    3720 |   14.40 |    6.80 |    3.80 |    0.80 |
    3740 |   14.20 |    6.70 |    3.80 |    0.80 |
    3760 |   14.10 |    6.70 |    3.80 |    0.80 |
    3780 |   14.10 |    6.60 |    3.90 |    0.90 |
    3800 |   14.30 |    6.60 |    3.80 |    0.90 |
    3820 |   14.10 |    6.50 |    3.70 |    0.80 |
    3840 |   14.20 |    6.50 |    3.80 |    0.80 |
    3860 |   14.00 |    6.50 |    3.80 |    1.00 |
    4000 |   13.90 |    6.40 |    3.70 |    0.80 |
    4250 |   14.50 |    6.50 |    3.80 |    0.90 |
    4500 |   14.10 |    6.50 |    3.70 |    0.90 |
    4750 |   14.20 |    6.40 |    3.70 |    0.80 |
    5000 |   14.10 |    6.60 |    3.70 |    0.80 |
    5250 |   14.40 |    6.60 |    3.90 |    0.90 |
    5500 |   14.00 |    6.50 |    3.70 |    0.80 |
    5750 |   14.30 |    6.50 |    3.80 |    0.80 |
    6000 |   14.70 |    6.80 |    4.10 |    1.30 |
    6250 |   15.10 |    6.60 |    3.90 |    0.90 |
    6500 |   14.50 |    6.60 |    4.00 |    1.00 |
    6750 |   14.60 |    6.90 |    4.10 |    0.90 |
    7000 |   14.20 |    7.10 |    4.20 |    1.00 |
    7250 |   14.00 |    7.10 |    4.00 |    0.90 |
    7500 |   14.40 |    7.80 |    4.40 |    0.90 |
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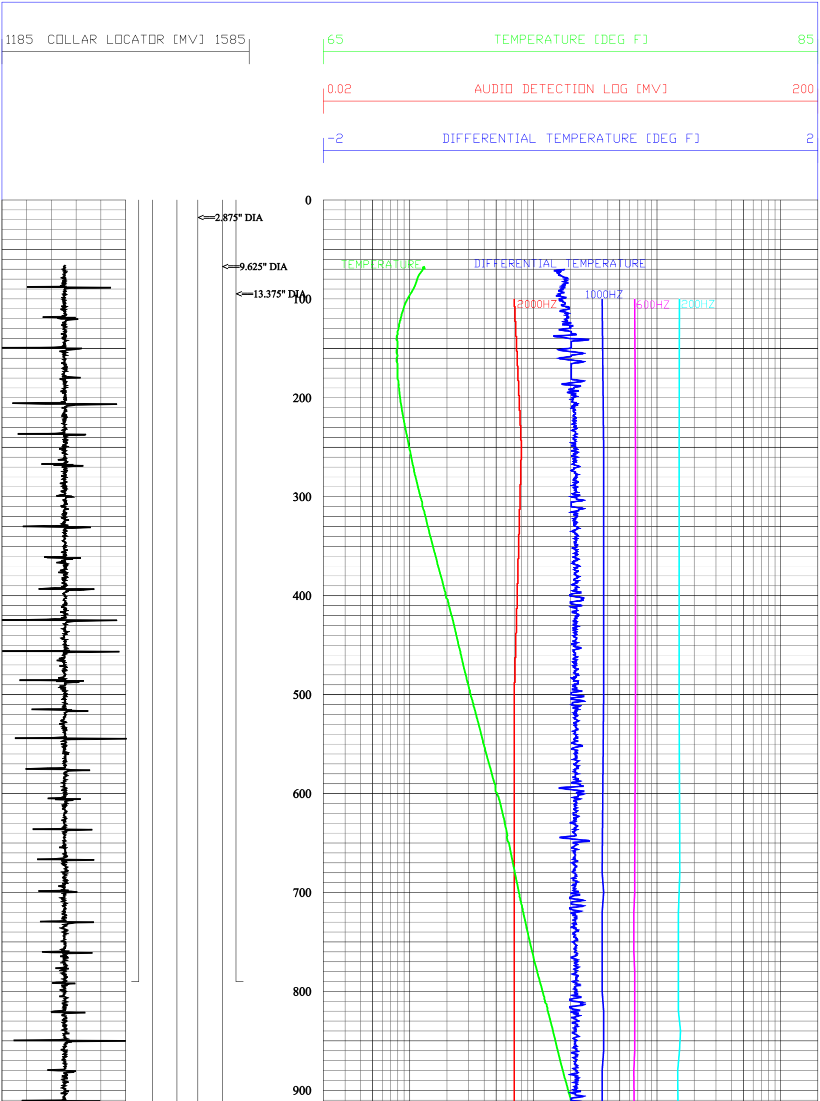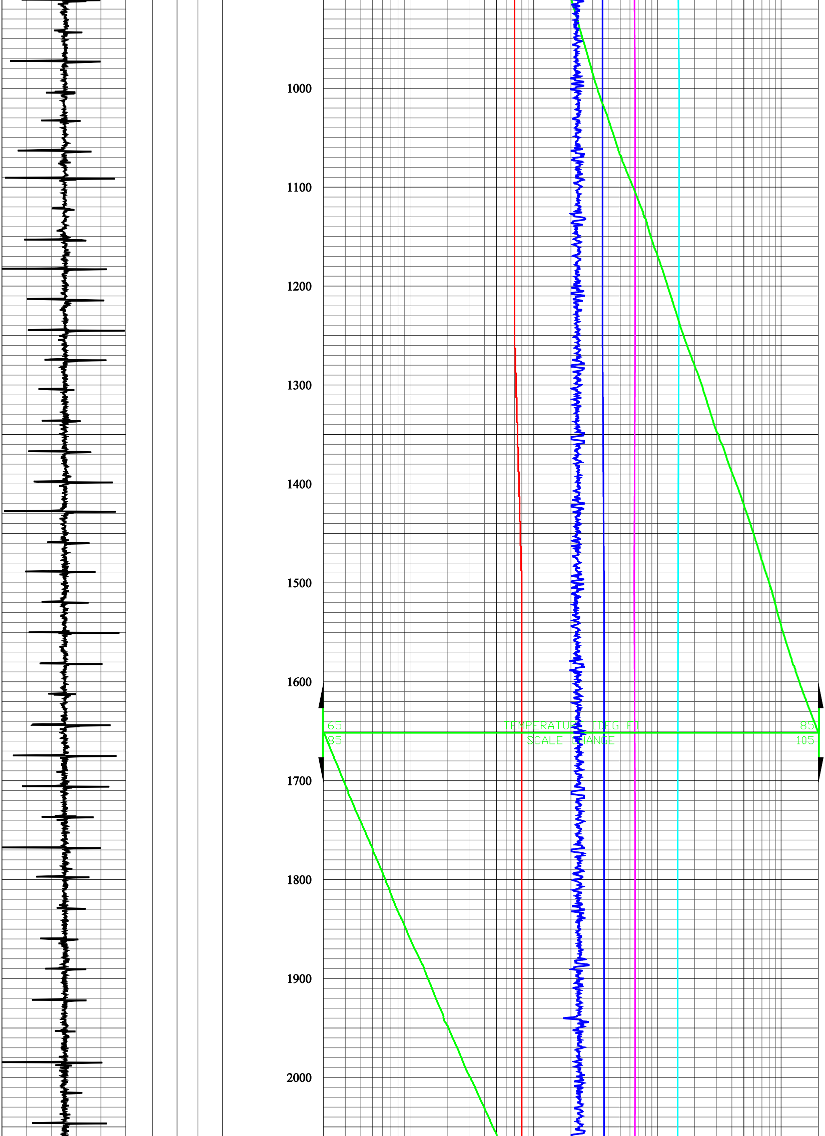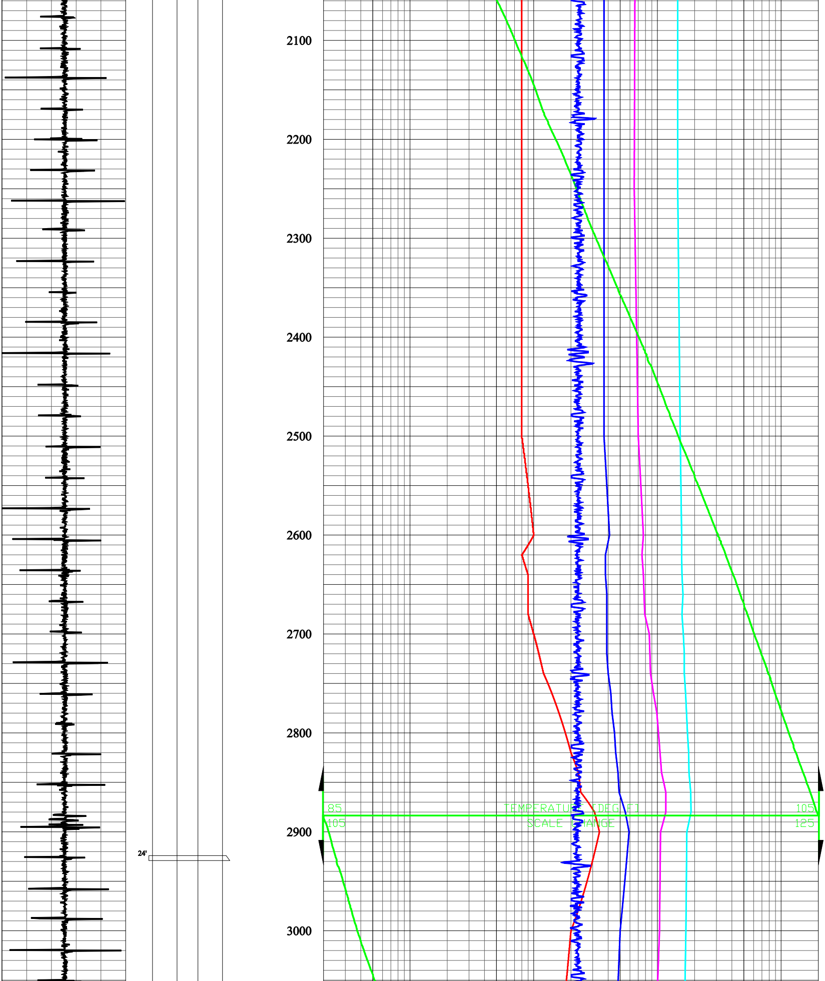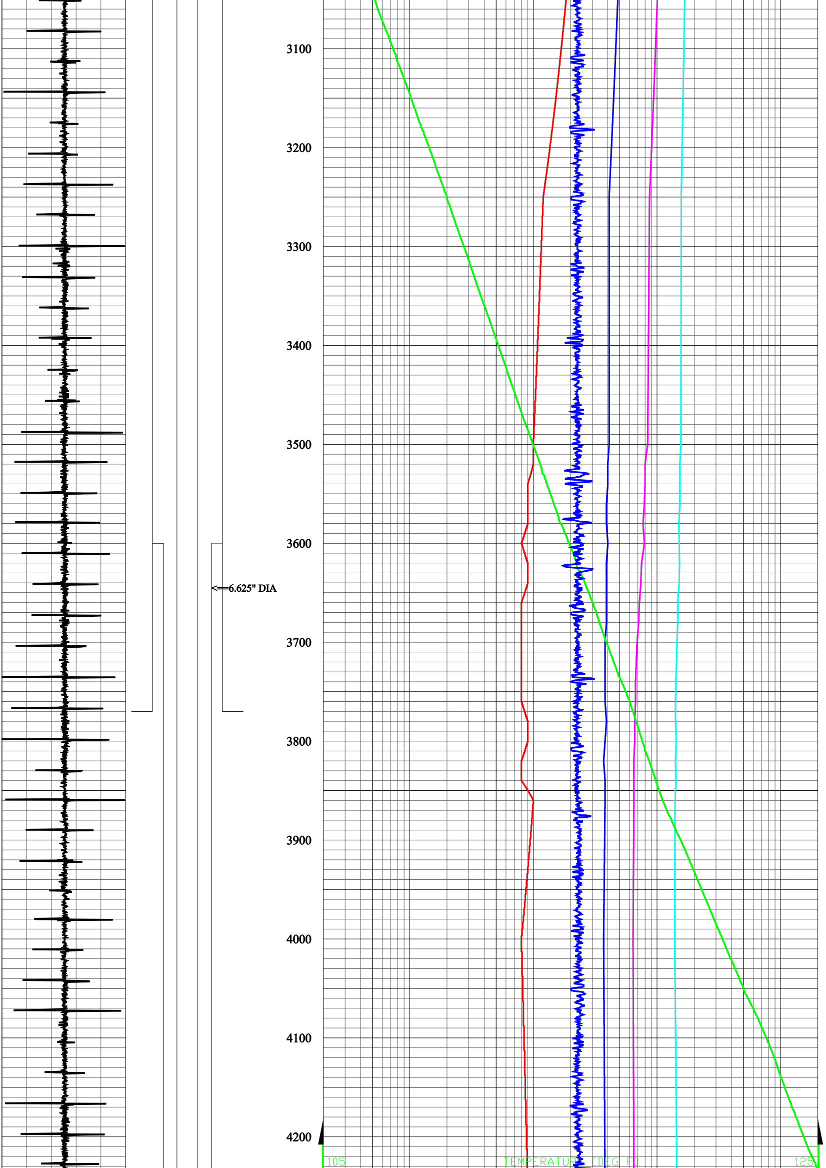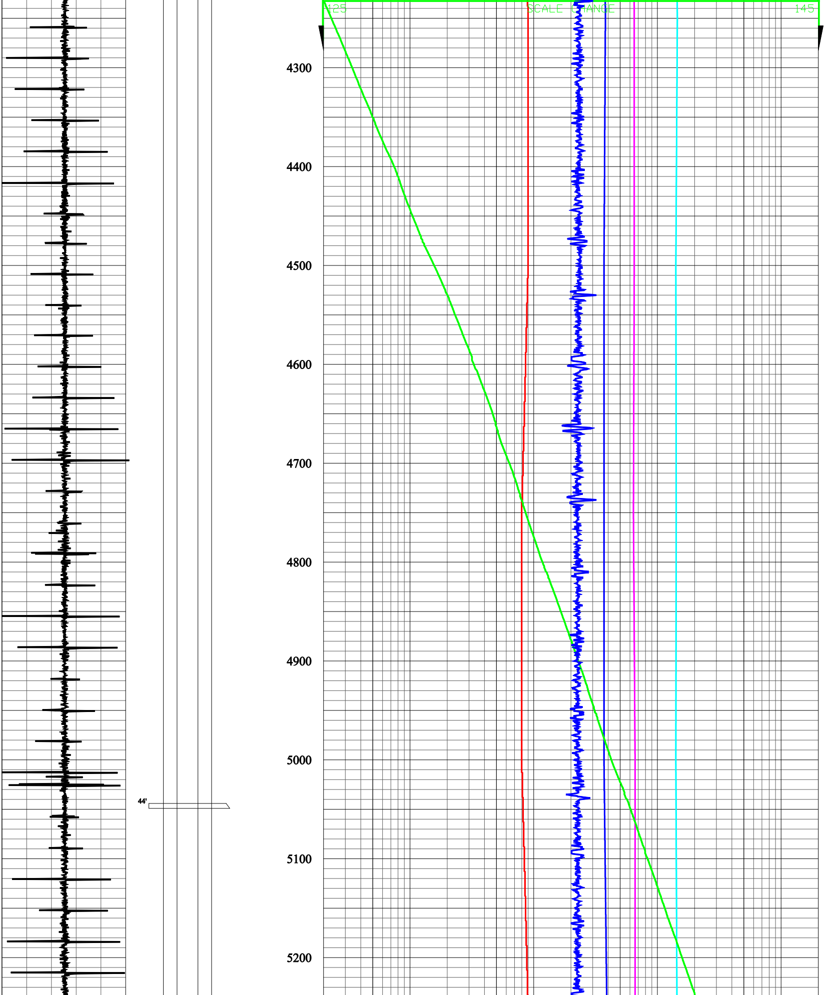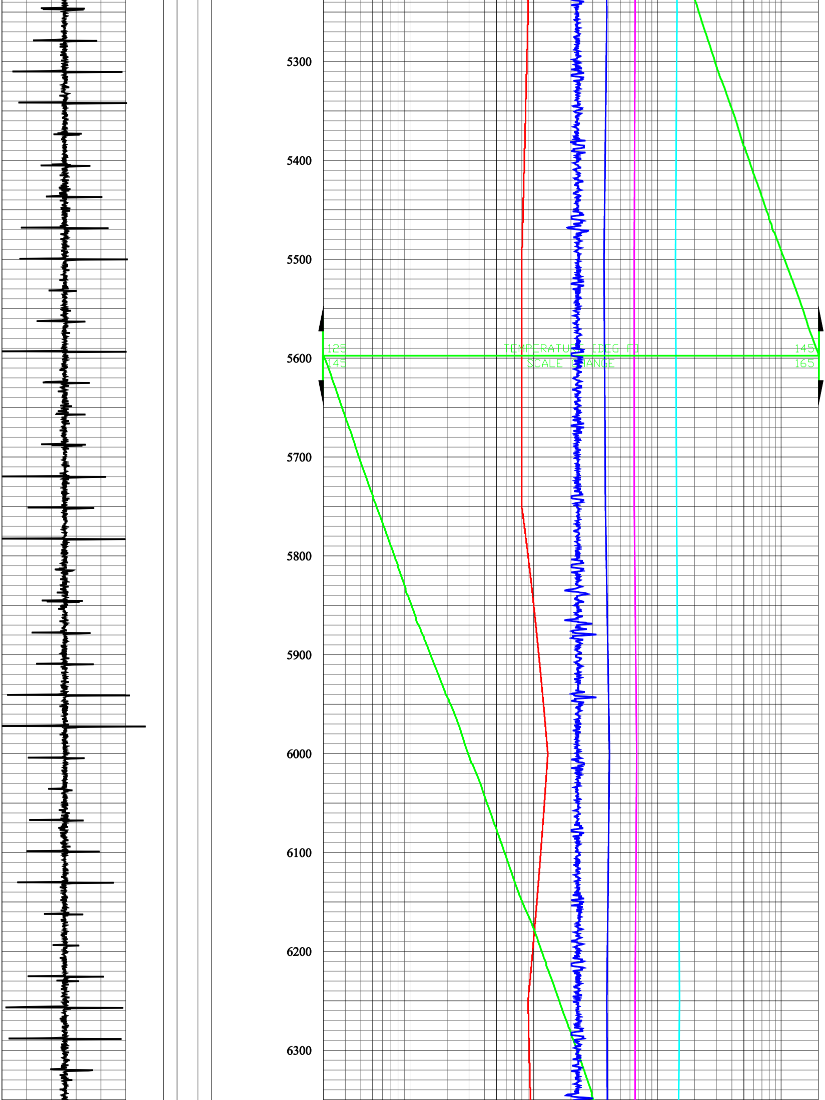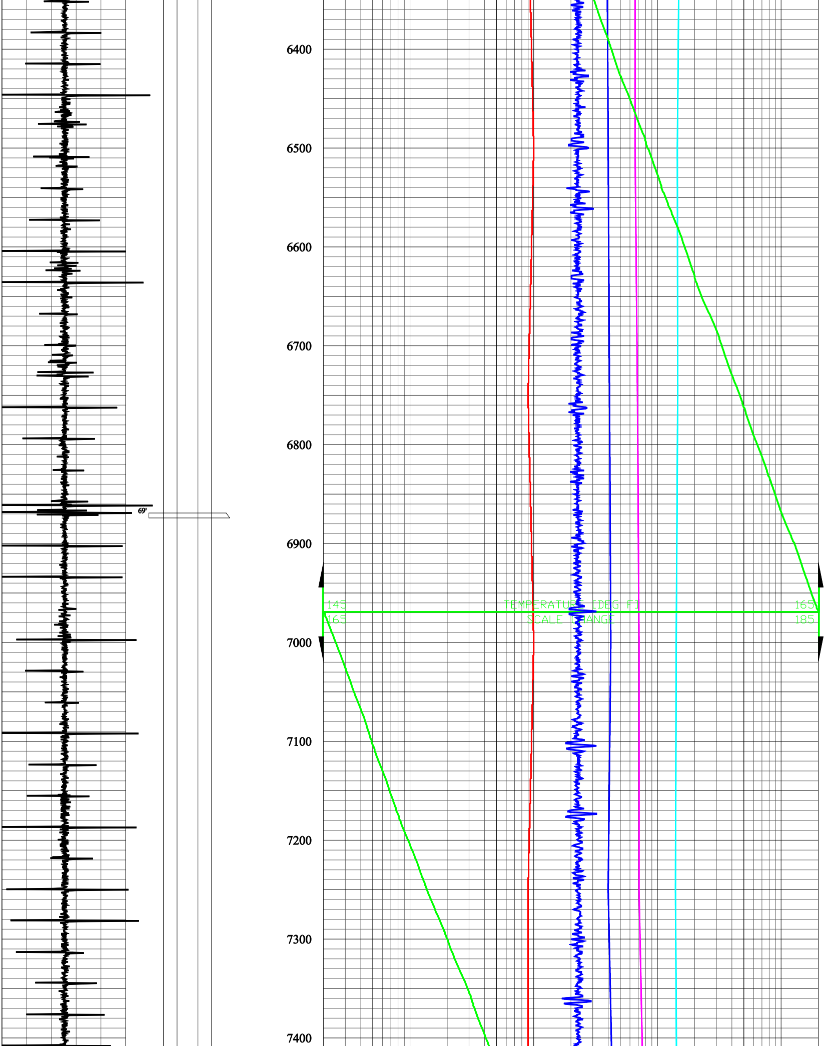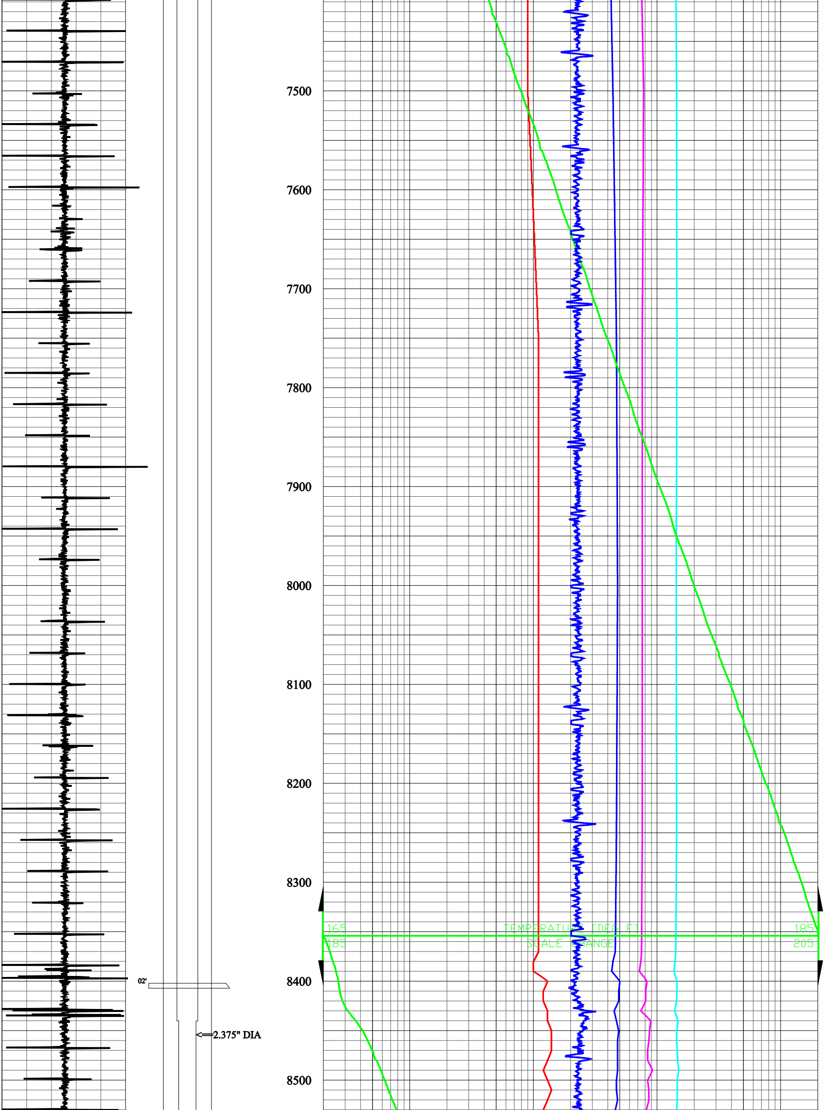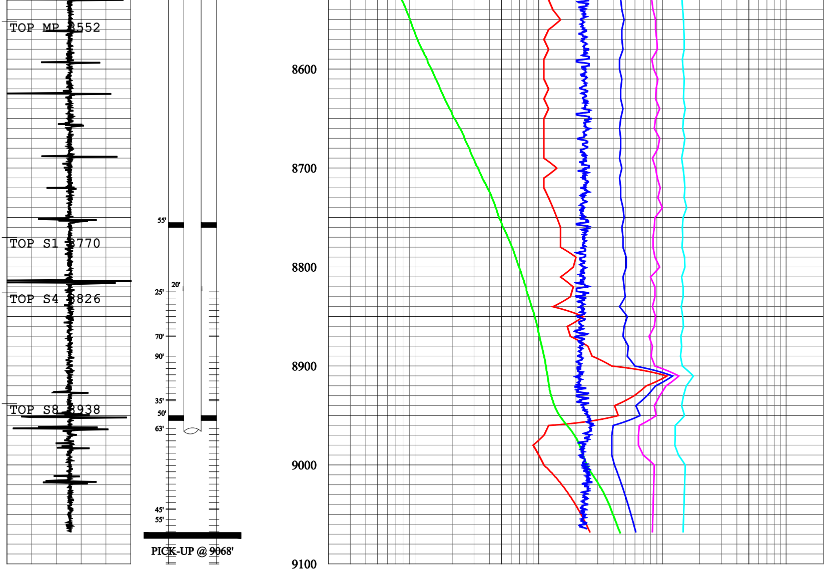```
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8000 |   14.30 |    7.60 |    4.80 |    1.10 |
8250 |   14.40 |    7.60 |    4.70 |    1.10 |
8370 |   14.20 |    7.50 |    4.60 |    1.10 |
8380 |   14.00 |    7.40 |    4.40 |    1.00 |
8390 |   13.70 |    7.20 |    4.30 |    1.00 |
8400 |   14.50 |    8.30 |    5.00 |    1.30 |
8410 |   14.50 |    8.10 |    4.90 |    1.20 |
8420 |   14.40 |    8.10 |    4.90 |    1.20 |
8430 |   13.90 |    7.40 |    4.50 |    1.30 |
8440 |   14.80 |    8.90 |    4.70 |    1.30 |
8450 |   14.50 |    8.70 |    4.90 |    1.40 |
8460 |   14.40 |    8.60 |    4.80 |    1.40 |
8470 |   14.60 |    8.40 |    4.80 |    1.40 |
8480 |   14.70 |    8.40 |    4.80 |    1.30 |
8490 |   15.00 |    9.20 |    4.80 |    1.20 |
8500 |   14.60 |    8.40 |    4.70 |    1.30 |
8510 |   14.60 |    8.60 |    4.70 |    1.40 |
8520 |   14.60 |    8.60 |    4.80 |    1.30 |
8530 |   14.40 |    8.20 |    4.60 |    1.20 |
8540 |   14.60 |    8.40 |    4.70 |    1.30 |
8550 |   14.80 |    8.80 |    4.90 |    1.50 |
8560 |   14.90 |    8.80 |    4.70 |    1.20 |
8570 |   15.00 |    9.00 |    4.70 |    1.10 |
8580 |   15.00 |    9.10 |    4.80 |    1.20 |
8590 |   14.50 |    8.20 |    4.50 |    1.10 |
8600 |   14.70 |    8.50 |    4.50 |    1.10 |
8610 |   15.00 |    9.20 |    4.70 |    1.10 |
8620 |   14.90 |    8.90 |    4.60 |    1.20 |
8630 |   14.80 |    8.80 |    4.60 |    1.10 |
8640 |   15.30 |    9.50 |    4.80 |    1.20 |
8650 |   14.80 |    8.80 |    4.60 |    1.10 |
8660 |   14.60 |    8.60 |    4.50 |    1.10 |
8670 |   15.20 |    9.50 |    4.60 |    1.10 |
8680 |   14.80 |    9.20 |    4.60 |    1.10 |
8690 |   14.30 |    8.30 |    4.50 |    1.10 |
8700 |   14.70 |    8.80 |    4.70 |    1.40 |
8710 |   15.00 |    9.10 |    4.50 |    1.10 |
8720 |   15.20 |    9.60 |    4.60 |    1.10 |
8730 |   15.00 |    9.20 |    4.60 |    1.20 |
8740 |   15.70 |   10.00 |    4.80 |    1.30 |
8750 |   14.70 |    8.70 |    4.90 |    1.40 |
8760 |   14.50 |    8.60 |    4.70 |    1.50 |
8770 |   14.60 |    8.40 |    4.80 |    1.50 |
8780 |   14.40 |    8.40 |    4.80 |    1.50 |
8790 |   15.10 |    8.70 |    5.10 |    2.00 |
8800 |   15.20 |    9.50 |    5.10 |    1.90 |
8810 |   14.30 |    8.00 |    4.80 |    1.50 |
8820 |   14.70 |    8.70 |    4.90 |    1.90 |
8830 |   14.70 |    8.70 |    5.00 |    1.80 |
8840 |   14.20 |    8.30 |    4.50 |    1.30 |
8850 |   14.60 |    8.80 |    5.20 |    2.30 |
8860 |   14.80 |    8.60 |    4.90 |    1.70 |
8870 |   14.10 |    7.80 |    4.80 |    1.80 |
8880 |   14.30 |    8.30 |    5.30 |    2.50 |
8890 |   14.00 |    8.10 |    5.20 |    2.70 |
8900 |   14.50 |    8.70 |    6.00 |    3.90 |
8910 |   17.80 |   13.60 |   12.10 |   10.90 |
8920 |   15.60 |   10.70 |    8.80 |    7.40 |
8930 |   14.80 |    9.50 |    7.50 |    5.90 |
8940 |   14.30 |    8.60 |    6.10 |    4.10 |
8950 |   15.10 |    8.90 |    6.60 |    4.40 |
8960 |   12.70 |    6.50 |    4.00 |    1.20 |
8970 |   12.70 |    6.40 |    3.90 |    1.10 |
8980 |   12.60 |    6.40 |    3.90 |    0.90 |
8990 |   13.50 |    7.00 |    3.90 |    1.00 |
9000 |   15.30 |    8.60 |    4.10 |    1.10 |
9068 |   14.70 |    8.30 |    6.10 |    2.60 |
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