WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPES GS, OG CB	COMPANY: SOUTHERN CALIF. GAS CO. WELL: PORTER 69D FIELD: ALISO CANYON COUNTY: LOS ANGELES STATE: CALIFORNIA

LOCATION:
DISTRICT 2

API NUMBER: 0403724130
SEC: 28 TWN: 3N RNG: 16W

OTHER SVC:

PERMANENT DATUM: GROUND LEVEL ELEV:

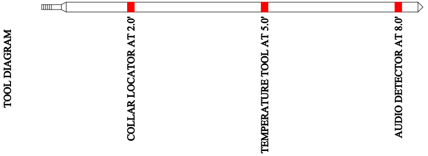
LOG MEASURED FROM KB 23' ABOVE PERM DATUM

DRILLING MEASURED FROM

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

DATE LOG RAN	03-15-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1068
EFFECTIVE DEPTH	8107'	CASING PSI			1069
PICKUP DEPTH	8085'	INJECTION RATE	N|A		
BOT LOGGED INT	8085'	OBSERVED RATE	N|A		
TOP LOGGED INT	25'	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	161.5 F.	OIL Gr.		OIL =	
AT DEPTH	8085.0'	GAS Gr.		GAS=	
TEMPERATURE SENS	1 F/DIV.	MPP		BHP =	
LOGGING SPEED	100 FPM			WATER=	
RECORDED BY	S. MACIAS				
WITNESSED BY	N|A				
EMAIL TO	A. KARGAR				
DEPTH CORRELATION	LINER TOP				

TOOL DIAGRAM



Equipment Data

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

Remarks/Survey Results

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11:45 AM - ON LOCATION
12:15 PM - RAN IN HOLE
12:15 PM - BEGIN SURVEY

SAND TAG MARKERS: 7496' TOP MP
                  7773' TOP S1
                  7803' TOP S2
                  7853' TOP S4
                  7940' TOP S8
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CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	1038'				
9.625"	47	SURFACE	7801'				
5.500"	17	7712'	8107'				
2.875"	6.5	SURFACE	7647'				

STR.	PIPE DIA.	PERFORATIONS
A	5.500"	7794'-8107'.
		PACKERS: 7642'.
		GAS LIFT MANDREL: 7551.3'-7557.4'.
		SLIDING SLEEVES: 7588.8'-7592.7'.
		NO-GO: 7610'.

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     Audio Data:  c:\data\noise.txt
--------------------------------------------------
   DEPTH |   200HZ |   600HZ |  1000HZ |  2000HZ |
--------------------------------------------------
     100 |    9.80 |    8.90 |    5.00 |    3.00 |
     250 |    8.50 |    7.60 |    4.30 |    2.70 |
     500 |    9.00 |    8.10 |    4.50 |    2.80 |
     750 |    8.30 |    7.70 |    4.50 |    2.80 |
     930 |    8.70 |    8.50 |    4.70 |    2.80 |
     940 |    8.70 |    8.50 |    4.70 |    2.80 |
     950 |    8.90 |    8.60 |    4.80 |    2.90 |
     960 |    8.50 |    8.30 |    4.70 |    2.80 |
     970 |    8.30 |    8.10 |    4.60 |    2.80 |
     980 |    9.00 |    8.70 |    4.70 |    2.60 |
     990 |    8.70 |    8.50 |    4.70 |    2.80 |
    1000 |    8.60 |    8.30 |    4.70 |    2.90 |
    1010 |    8.40 |    8.10 |    4.60 |    2.80 |
    1020 |    8.50 |    8.30 |    4.60 |    2.60 |
    1030 |    8.50 |    8.30 |    4.60 |    2.80 |
    1040 |    8.20 |    8.00 |    4.60 |    2.80 |
    1050 |    8.20 |    8.00 |    4.50 |    2.80 |
    1250 |    8.60 |    8.40 |    4.70 |    2.80 |
    1500 |    8.40 |    8.20 |    4.60 |    2.70 |
    1750 |    8.40 |    8.20 |    4.70 |    2.80 |
    2000 |    8.80 |    8.50 |    5.20 |    2.90 |
    2250 |    8.20 |    7.90 |    4.80 |    2.80 |
    2500 |    7.40 |    7.20 |    4.50 |    2.80 |
    2750 |    7.20 |    7.00 |    4.40 |    2.90 |
    3000 |    8.90 |    8.60 |    4.60 |    2.90 |
    3250 |    8.20 |    7.00 |    4.50 |    2.90 |
    3500 |    8.40 |    7.70 |    4.70 |    2.90 |
    3750 |    8.50 |    7.70 |    4.70 |    2.90 |
    4000 |    8.60 |    8.10 |    4.60 |    2.90 |
    4250 |    9.90 |    9.40 |    5.10 |    3.00 |
    4500 |    9.60 |    8.50 |    5.00 |    3.10 |
    4750 |    9.00 |    7.80 |    4.70 |    3.00 |
    5000 |    8.80 |    8.50 |    4.80 |    2.90 |
    5250 |    9.70 |    9.30 |    5.00 |    2.90 |
    5500 |    9.00 |    8.70 |    4.90 |    2.90 |
    5750 |    8.70 |    8.20 |    4.80 |    2.90 |
    6000 |    9.30 |    8.80 |    5.00 |    2.80 |
    6250 |    9.70 |    8.80 |    4.80 |    3.00 |
    6500 |   10.10 |    9.70 |    5.10 |    3.00 |
    6750 |    8.00 |    7.30 |    4.40 |    2.90 |
    7000 |    9.30 |    8.80 |    5.40 |    3.80 |
    7250 |    9.10 |    8.80 |    4.90 |    2.90 |
    7430 |    9.20 |    8.80 |    5.00 |    3.00 |
    7440 |    8.40 |    8.00 |    4.80 |    2.90 |
    7450 |    8.20 |    7.90 |    4.80 |    2.90 |
    7460 |   10.80 |   10.00 |    5.70 |    3.30 |
    7470 |   12.70 |   11.60 |    8.90 |    6.60 |
    7480 |   10.00 |    9.40 |    5.40 |    3.30 |
    7490 |    9.20 |    8.90 |    5.00 |    2.90 |
    7500 |    9.70 |    8.90 |    5.10 |    3.00 |
    7510 |    8.90 |    8.60 |    5.00 |    2.90 |
    7520 |    9.10 |    8.70 |    5.30 |    3.30 |
    7530 |    9.10 |    8.70 |    5.10 |    3.00 |
    7540 |    9.30 |    8.90 |    5.30 |    3.10 |
    7550 |    8.90 |    8.70 |    5.20 |    3.10 |
    7560 |   10.50 |    9.70 |    6.20 |    3.90 |
    7570 |   10.00 |    9.50 |    5.60 |    3.30 |
    7580 |    9.20 |    8.90 |    5.30 |    3.10 |
    7590 |   10.00 |    9.20 |    6.00 |    3.30 |
    7600 |   10.60 |    9.80 |    6.40 |    3.70 |
    7610 |   11.90 |   10.30 |    7.20 |    4.20 |
    7620 |   12.90 |   11.30 |    7.40 |    4.40 |
    7630 |   12.30 |   10.70 |    7.10 |    4.30 |
    7640 |    8.90 |    8.50 |    5.70 |    4.50 |
    7660 |    8.20 |    7.90 |    5.10 |    3.90 |
    7670 |    8.60 |    8.20 |    5.60 |    4.30 |
    7680 |    9.00 |    8.30 |    5.90 |    4.60 |
    7690 |   10.00 |    9.10 |    6.40 |    5.10 |
    7700 |   10.80 |    9.80 |    7.20 |    5.80 |
    7710 |   13.50 |   13.20 |   11.00 |    9.80 |
    7720 |   14.90 |   14.50 |   12.50 |   11.50 |
    7730 |   14.30 |   13.90 |   11.50 |   10.40 |
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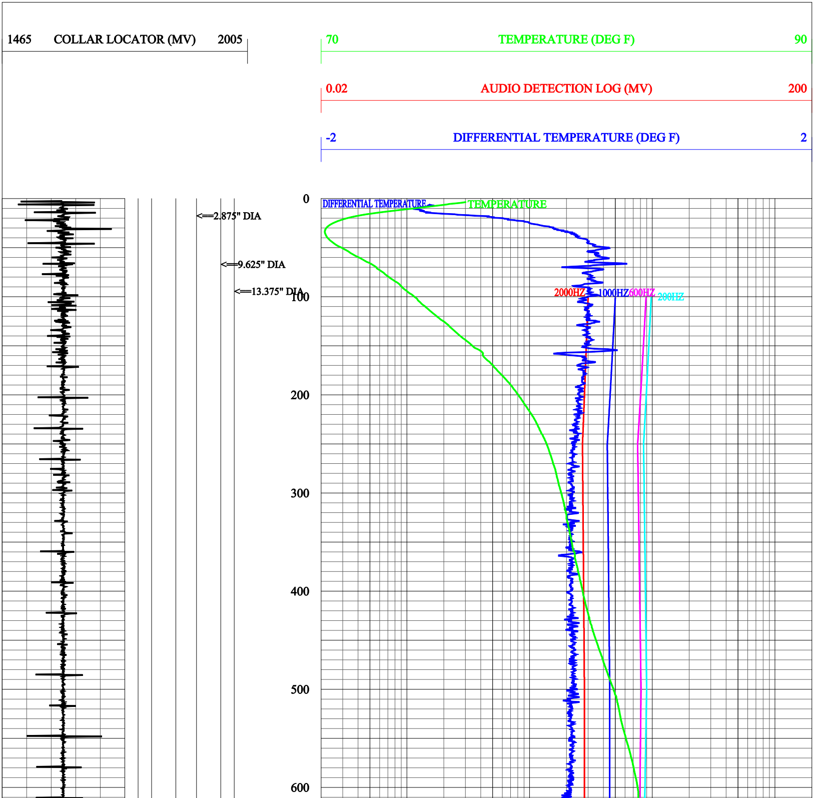
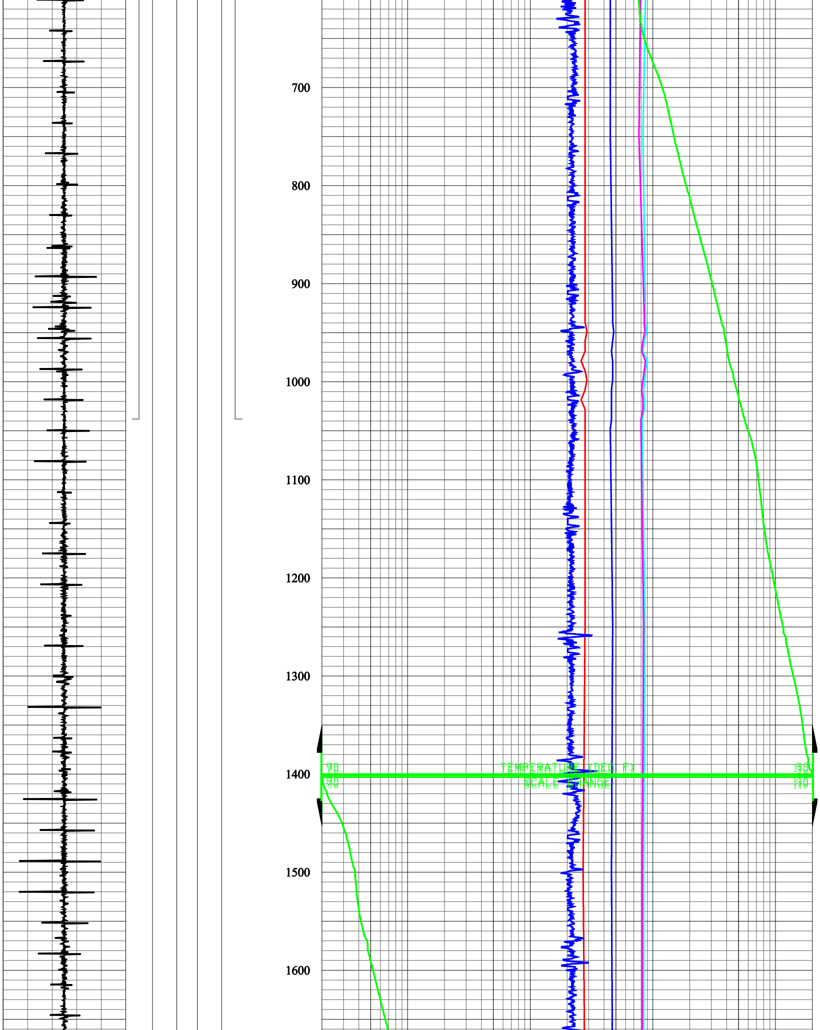
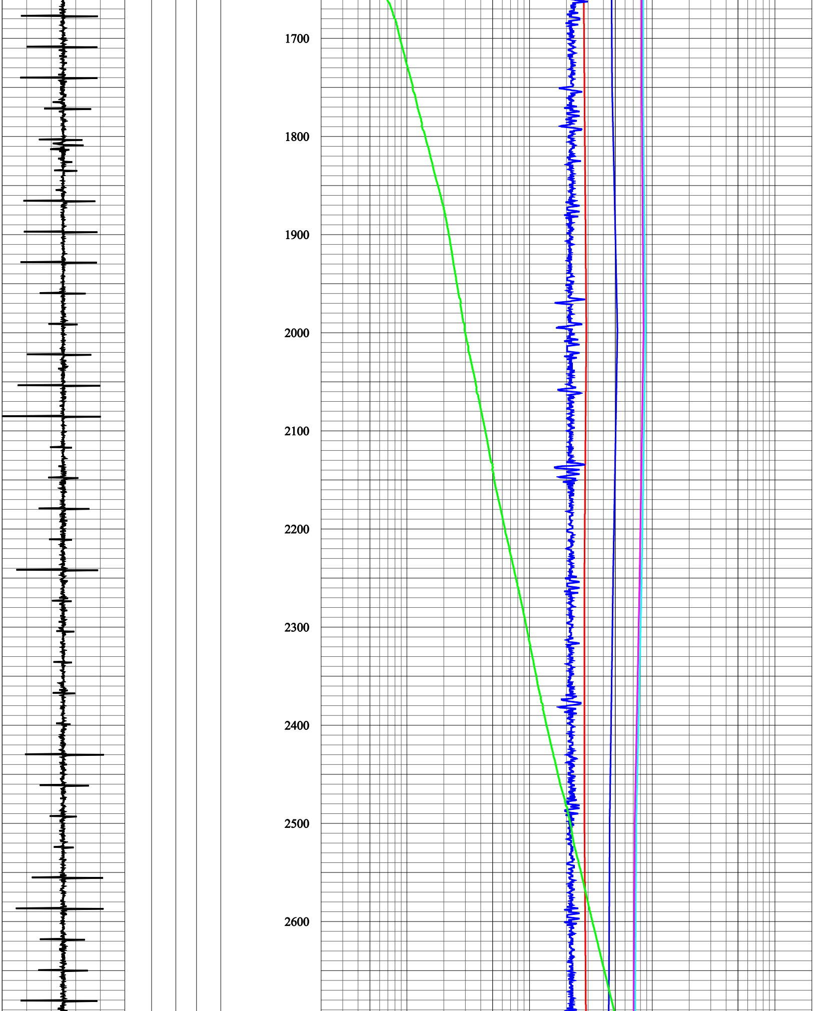
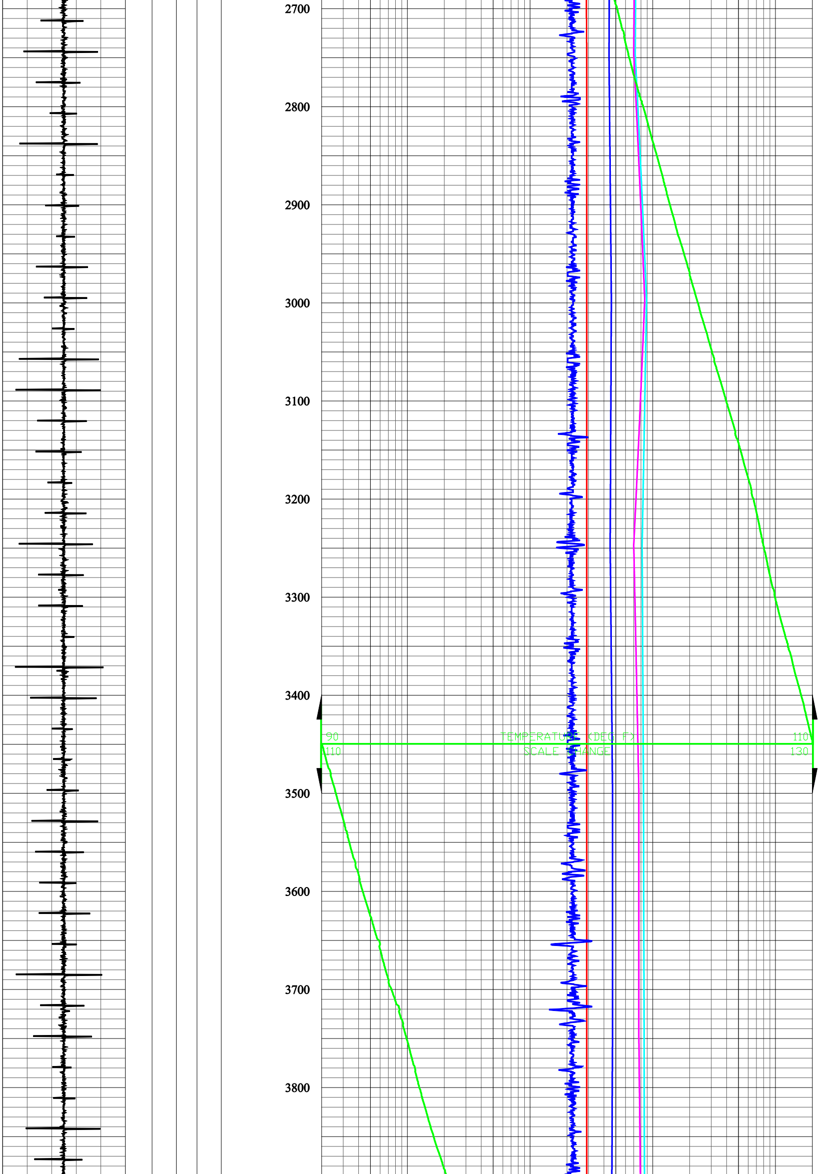
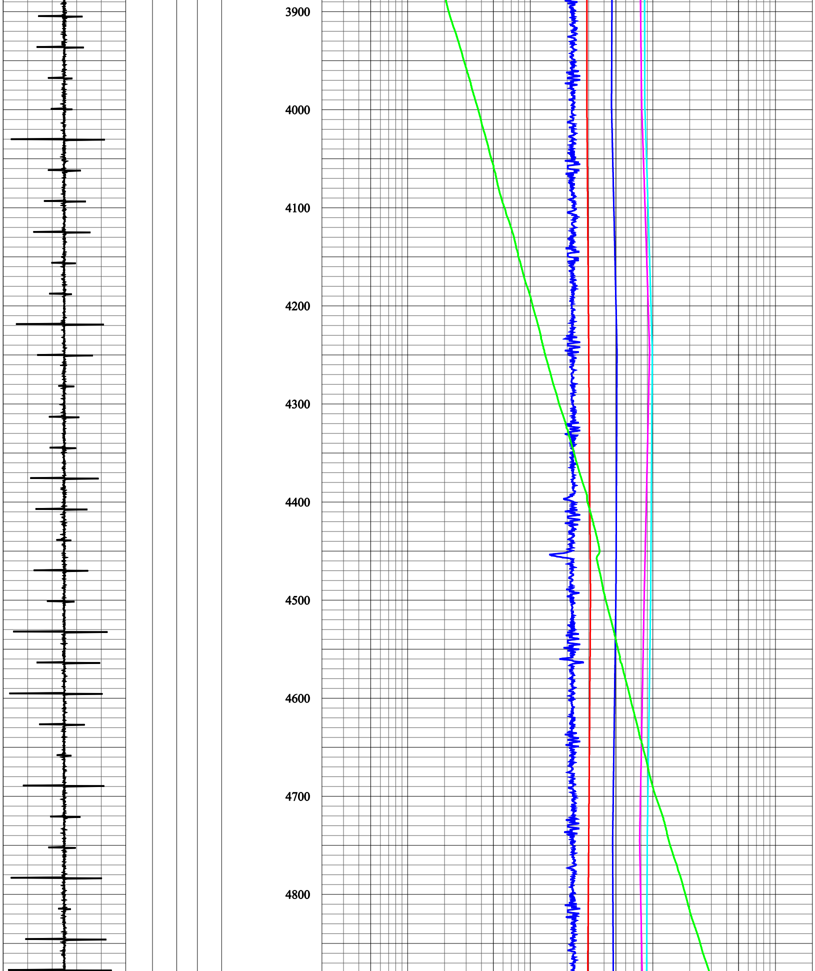
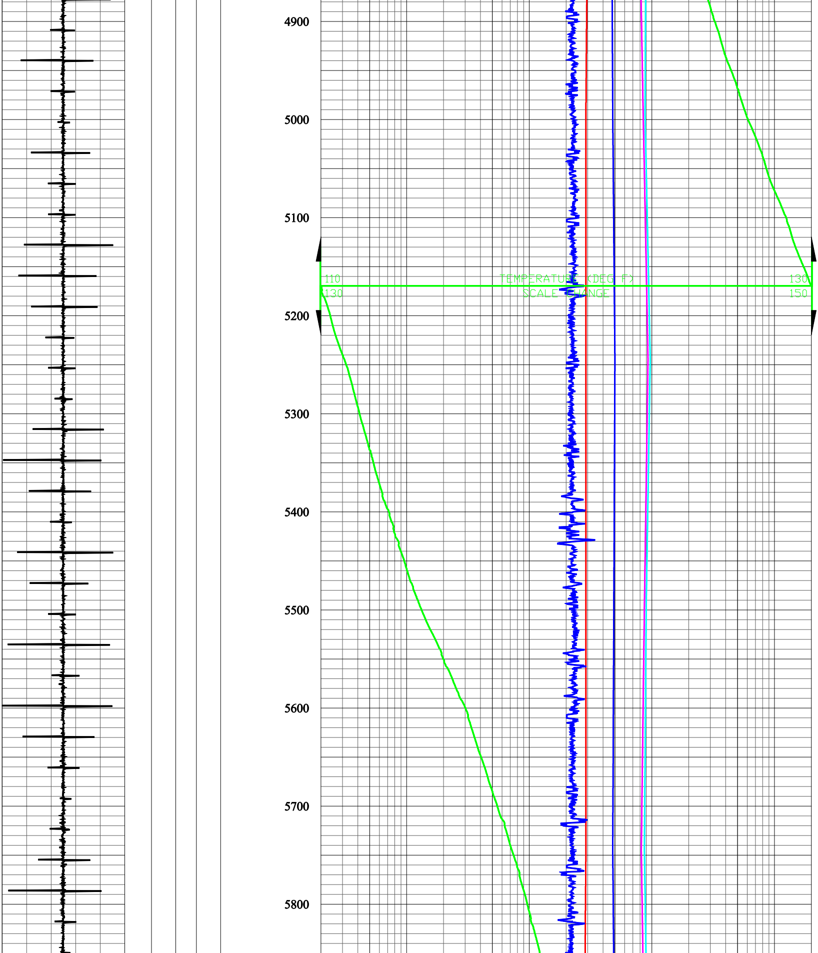
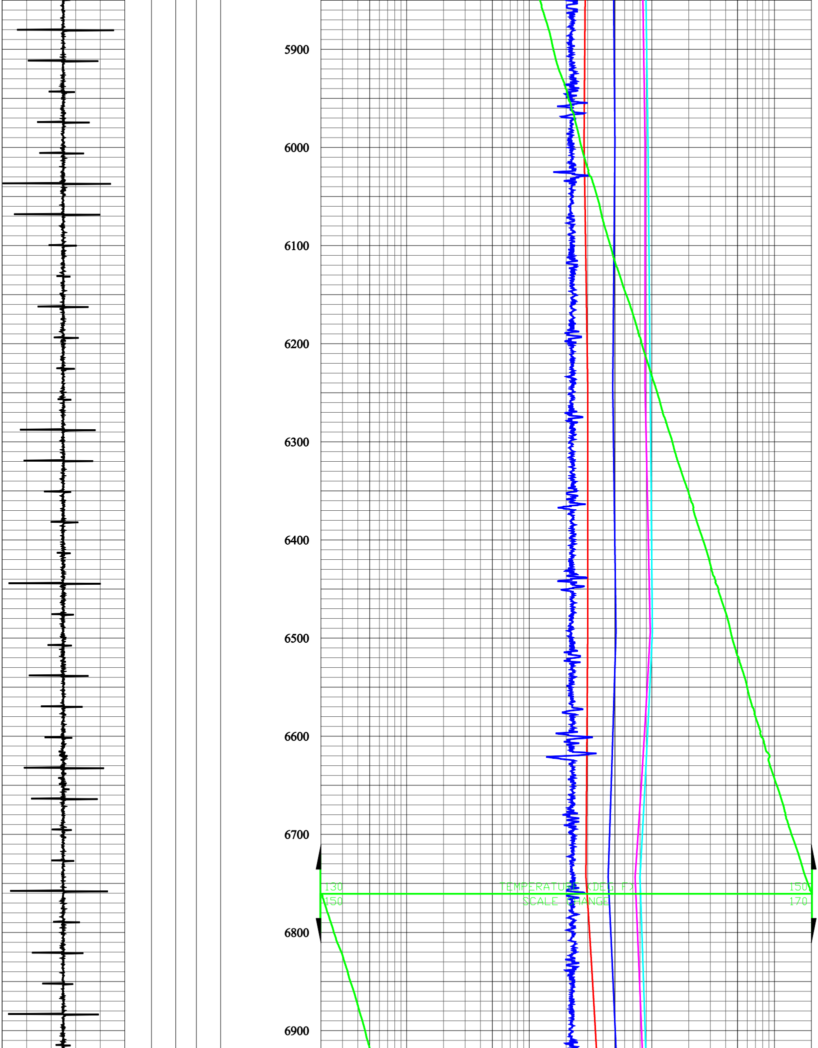
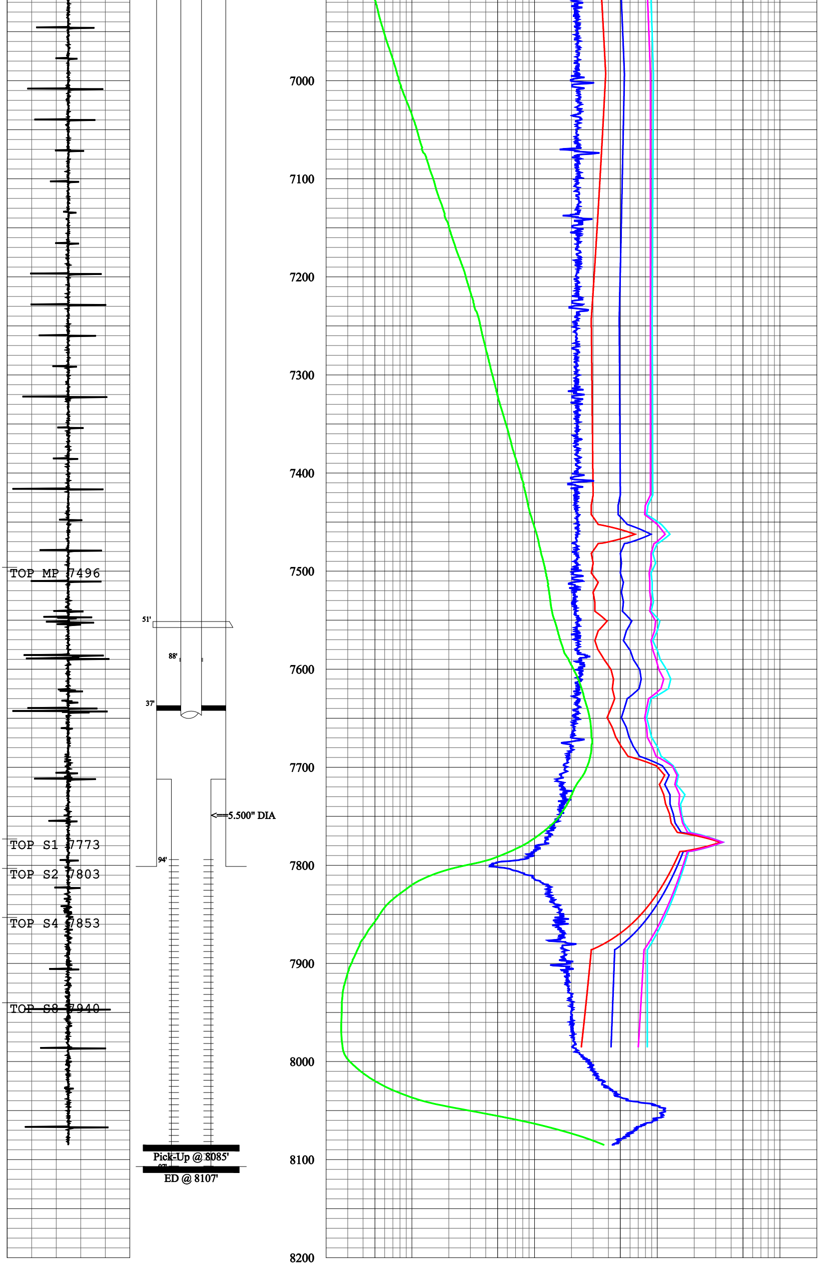
7740	16.80	15.20	12.70	11.30
7750	15.50	15.00	12.70	11.70
7760	15.80	15.50	13.50	12.60
7770	16.50	16.10	14.00	13.00
7780	18.80	17.70	15.70	14.60
7790	34.50	34.20	33.60	32.80
7800	18.00	17.60	16.30	15.30
7900	8.30	7.80	4.50	2.90
8000	8.30	7.00	4.20	2.40


1465 COLLAR LOCATOR (MV) 2005
70 TEMPERATURE (DEG F) 90
0.02 AUDIO DETECTION LOG (MV) 200
-2 DIFFERENTIAL TEMPERATURE (DEG F) 2
<==2.875" DIA
<==9.625" DIA
<==13.375" DIA
0
100
200
300
400
500
600
DIFFERENTIAL TEMPERATURE
TEMPERATURE
2000HZ
1000HZ
600HZ
200HZ