WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE
GS, OG

COMPANY: SOUTHERN CALIF. GAS CO.
WELL: PORTER 69C
FIELD: ALISO CANYON
COUNTY: LOS ANGELES STATE: CALIFORNIA

LOCATION:
DISTRICT 2

OTHER SVC:

API NUMBER: 0403724128
VS
SEC: 28 TWN: 3N RNG: 16W

PERMANENT DATUM: GROUND LEVEL ELEV: 2366 FT.

LOG MEASURED FROM KB 23.50' ABOVE PERM DATUM

DRILLING MEASURED FROM

-ELEVATIONS-
KB: 2389.50 Ft.
DF: Ft.
GL: 2366.00 Ft.

DATE LOG RAN	03-15-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1068
EFFECTIVE DEPTH	7881'	CASING PSI			1069
PICKUP DEPTH	7878'	INJECTION RATE	N|A		
BOT LOGGED INT	7878'	OBSERVED RATE	N|A		
TOP LOGGED INT	200'	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	153.9 F.	OIL Gr.	N|A	OIL =	N|A
AT DEPTH	7878.0'	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	S. MACIAS				
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

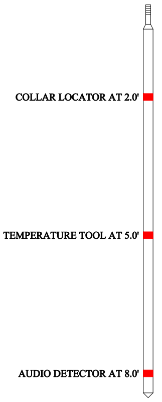
07:00 AM - ON LOCATION
07:52 AM - RAN IN HOLE
07:52 AM - BEGIN SURVEY
11:38 AM - PULL OUT OF HOLE
12:00 PM - OFF LOCATION
SAND TAG MARKERS: 7339' TOP MP
7567' TOP S1
7603' TOP S2
7653' TOP S4
7740' TOP S8

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	1043'				
9.625"	47	SURFACE	7596'				
5.500"	17	7519.5'	7881'				
2.875"	6.5	SURFACE	7457.9'				

STR.	PIPE DIA.	PERFORATIONS
A	5.500"	7543'-7597', WWS: 7597'-7879'.
		PACKERS: 7453.8'-7457.4', 7519.5'-7522.1'.
		MANDRELS: 7341.2'-7355.2'.
		SLEEVES: 7386.7'-7389.9'.
		NO-GO: 7421.4'-7422.4'.

TOOL DIAGRAM



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     Audio Data:  c:\data\noise.txt
--------------------------------------------------
   DEPTH |   200HZ |   600HZ |  1000HZ |  2000HZ |
--------------------------------------------------
     100 |    9.00 |    8.60 |    4.60 |    2.90 |
     250 |    8.40 |    7.90 |    4.20 |    2.60 |
     450 |   10.00 |    9.00 |    5.20 |    3.40 |
     550 |   10.50 |   10.10 |    5.10 |    3.00 |
     700 |   10.30 |    9.90 |    5.00 |    2.90 |
     940 |    9.30 |    8.90 |    4.80 |    3.00 |
     950 |    8.60 |    8.20 |    4.30 |    2.50 |
     960 |    8.90 |    8.50 |    4.60 |    2.90 |
     970 |    8.40 |    8.00 |    4.40 |    2.80 |
     980 |    8.60 |    8.20 |    4.50 |    2.80 |
     990 |    8.40 |    8.00 |    4.50 |    2.90 |
    1000 |    7.80 |    7.50 |    4.20 |    2.80 |
    1010 |    7.90 |    7.70 |    4.30 |    2.80 |
    1020 |    7.70 |    7.50 |    4.20 |    2.80 |
    1030 |    8.90 |    8.60 |    4.60 |    2.80 |
    1040 |    8.00 |    7.80 |    4.30 |    2.80 |
    1050 |    8.80 |    8.20 |    4.80 |    3.20 |
    1150 |    7.90 |    7.70 |    4.30 |    2.90 |
    1400 |    8.80 |    8.40 |    4.60 |    2.90 |
    1420 |    9.40 |    8.80 |    4.80 |    3.00 |
    1440 |    9.60 |    9.20 |    4.70 |    2.80 |
    1460 |    8.30 |    8.00 |    4.40 |    2.90 |
    1480 |    9.50 |    8.20 |    4.90 |    3.20 |
    1500 |    9.30 |    8.60 |    4.70 |    2.90 |
    1520 |    7.60 |    7.40 |    4.20 |    2.80 |
    1540 |    8.50 |    8.20 |    4.40 |    2.80 |
    1560 |    9.50 |    8.90 |    4.60 |    2.80 |
    1580 |    9.90 |    9.30 |    5.40 |    2.90 |
    1600 |    9.00 |    8.10 |    4.90 |    2.90 |
    1650 |    8.80 |    8.40 |    4.70 |    2.70 |
    1900 |    8.60 |    8.20 |    4.30 |    2.70 |
    2150 |    8.60 |    7.90 |    4.20 |    2.40 |
    2400 |    8.70 |    8.30 |    4.90 |    3.40 |
    2650 |    9.10 |    8.50 |    4.80 |    3.10 |
    2900 |    8.60 |    8.10 |    4.40 |    2.70 |
    3150 |    8.60 |    8.40 |    4.60 |    2.90 |
    3400 |    8.90 |    8.40 |    4.40 |    2.60 |
    3650 |    9.00 |    8.70 |    4.70 |    2.90 |
    3900 |    8.60 |    8.20 |    4.70 |    3.10 |
    4150 |    7.60 |    7.40 |    4.30 |    2.80 |
    4400 |    8.60 |    8.30 |    4.50 |    2.80 |
    4650 |    8.20 |    7.80 |    4.50 |    2.90 |
    4670 |    8.20 |    7.90 |    4.50 |    2.90 |
    4690 |    7.50 |    7.30 |    4.30 |    2.90 |
    4710 |    8.10 |    7.80 |    4.50 |    2.90 |
    4730 |    8.20 |    7.90 |    4.50 |    3.00 |
    4750 |    8.20 |    7.80 |    4.50 |    3.00 |
    4800 |    8.50 |    8.30 |    4.60 |    2.90 |
    5050 |    8.90 |    8.20 |    4.90 |    3.20 |
    5300 |    8.20 |    8.00 |    4.50 |    2.90 |
    5320 |    7.70 |    7.50 |    4.40 |    2.90 |
    5340 |    7.70 |    7.60 |    4.20 |    2.70 |
    5360 |    7.20 |    6.70 |    3.90 |    2.40 |
    5380 |    7.30 |    6.90 |    3.80 |    2.30 |
    5400 |    7.10 |    6.90 |    4.00 |    2.60 |
    5420 |    7.70 |    7.50 |    4.30 |    2.80 |
    5440 |    7.60 |    7.10 |    4.20 |    2.70 |
    5460 |    7.30 |    7.10 |    4.00 |    2.60 |
    5480 |    8.20 |    8.00 |    4.50 |    2.90 |
    5500 |    7.90 |    7.60 |    4.20 |    2.50 |
    5520 |    7.30 |    7.10 |    4.10 |    2.60 |
    5540 |    7.50 |    7.30 |    4.10 |    2.60 |
    5560 |    7.30 |    6.60 |    3.90 |    2.60 |
    5580 |    7.70 |    7.50 |    4.40 |    2.90 |
    5600 |    7.90 |    7.10 |    4.40 |    2.90 |
    5620 |    7.60 |    7.40 |    4.30 |    2.90 |
    5640 |    7.60 |    7.40 |    4.30 |    2.90 |
    5660 |    8.00 |    7.80 |    4.50 |    2.90 |
    5680 |    7.60 |    7.40 |    4.40 |    2.90 |
    5700 |    7.60 |    7.40 |    4.40 |    2.90 |
    5720 |    7.50 |    7.30 |    4.30 |    2.90 |
    5740 |    7.60 |    7.30 |    4.40 |    3.00 |
    5760 |    7.30 |    7.10 |    4.30 |    2.90 |
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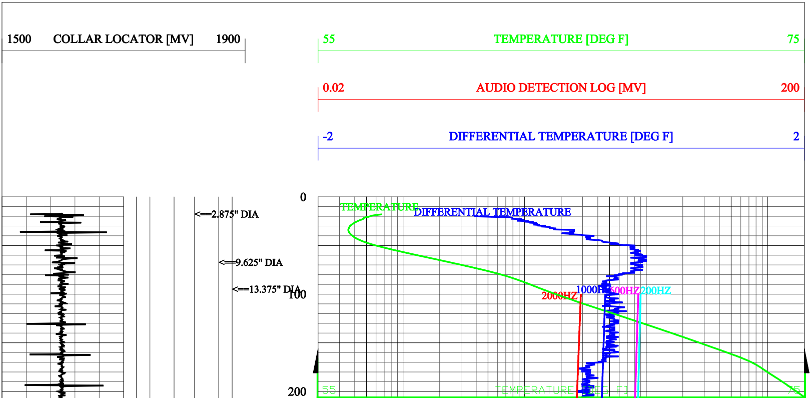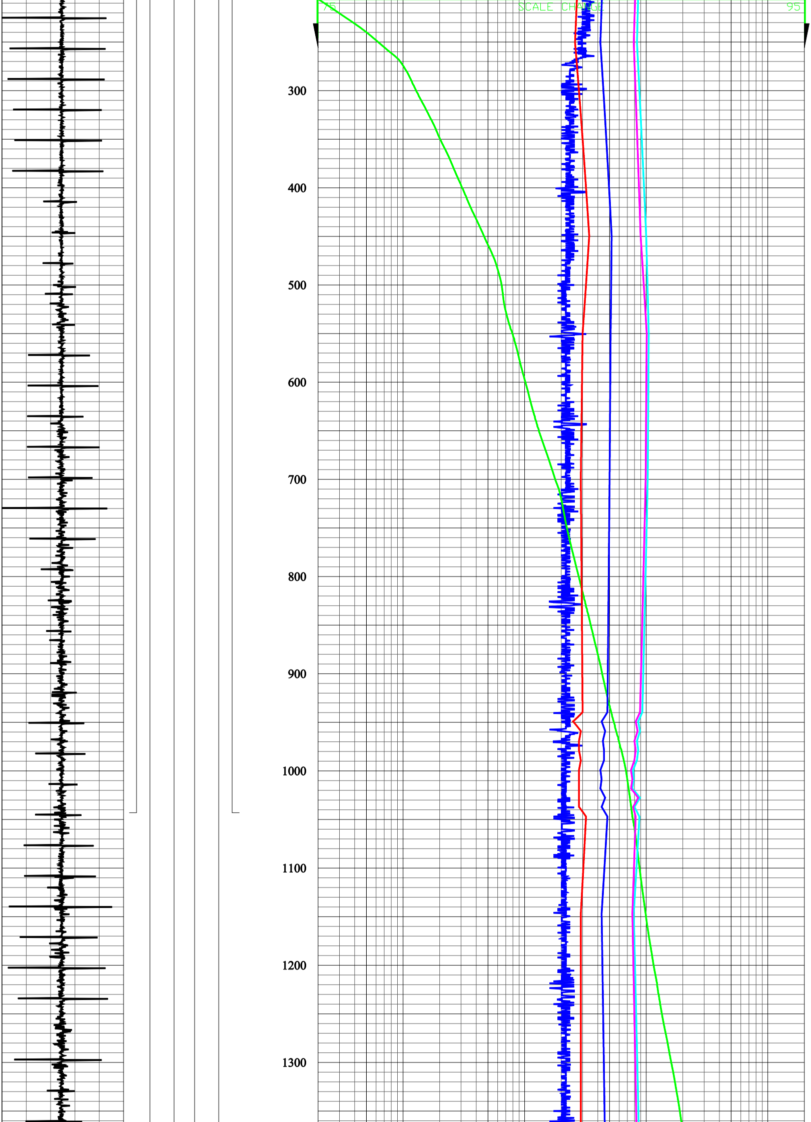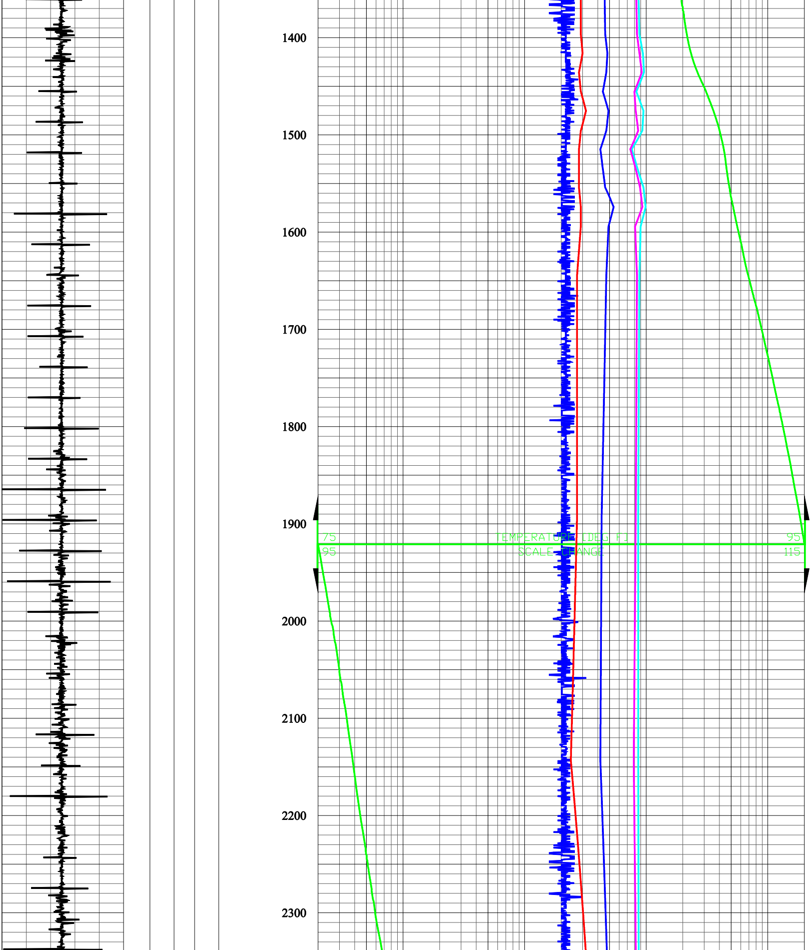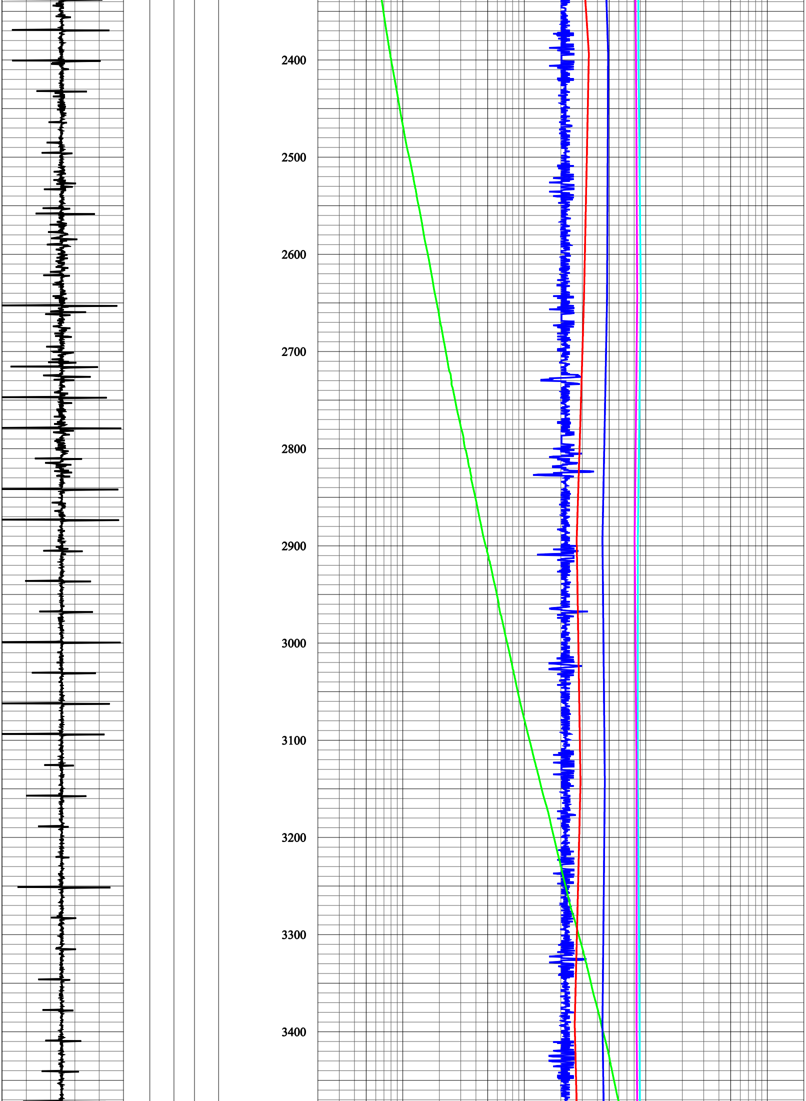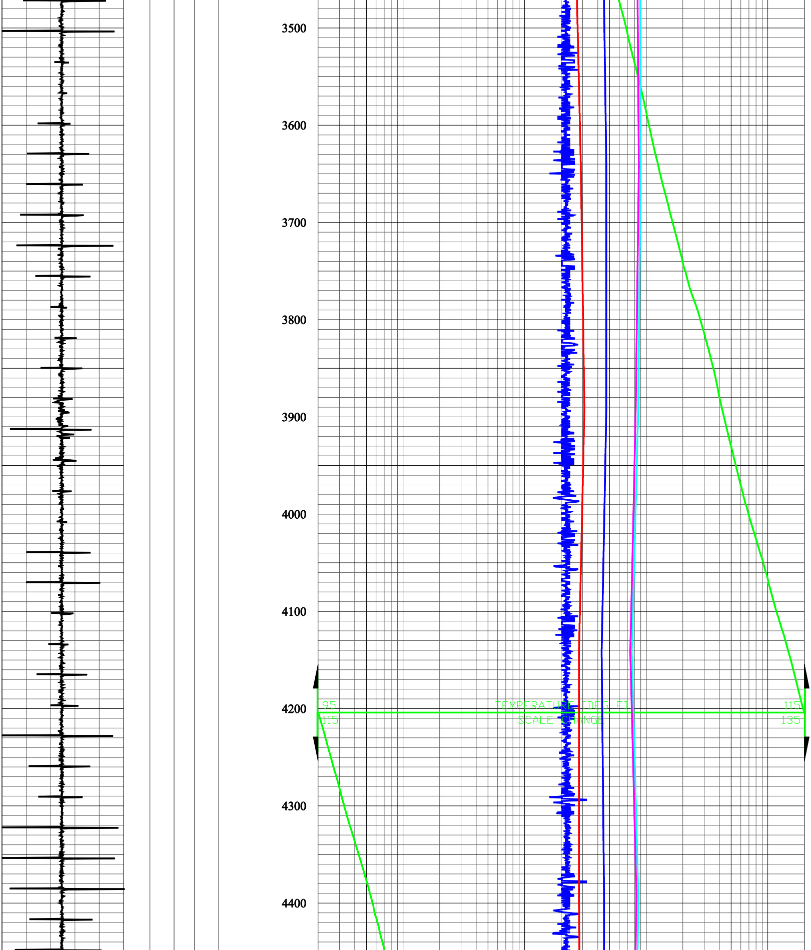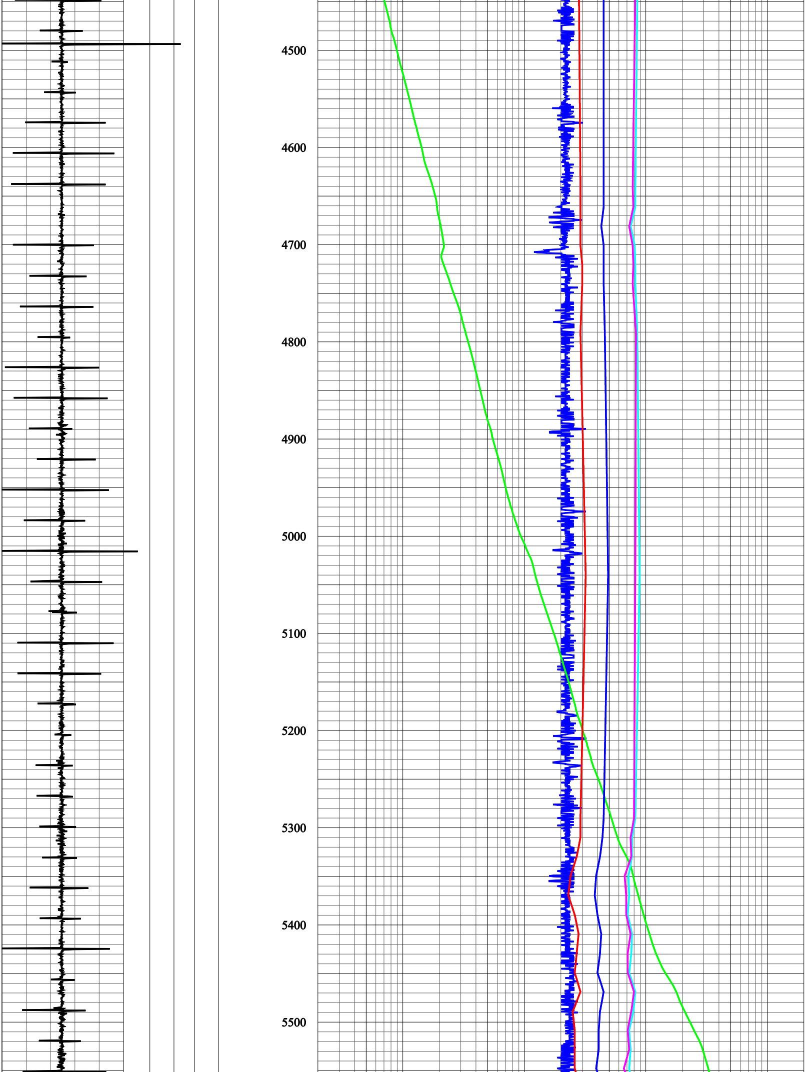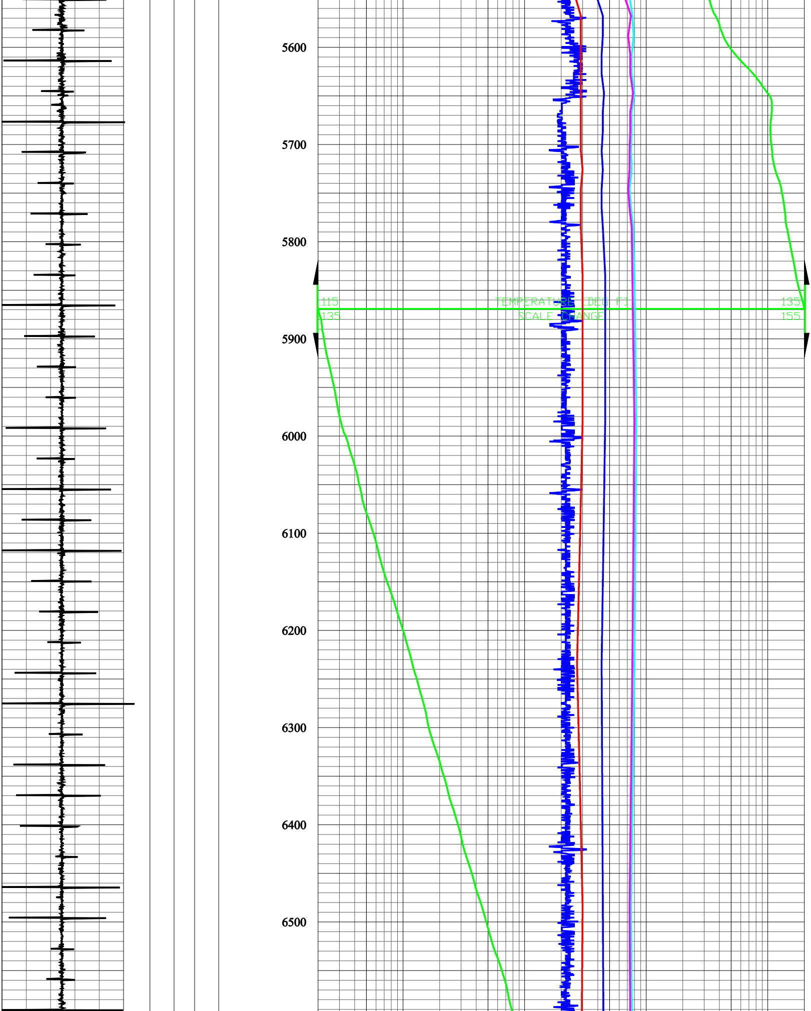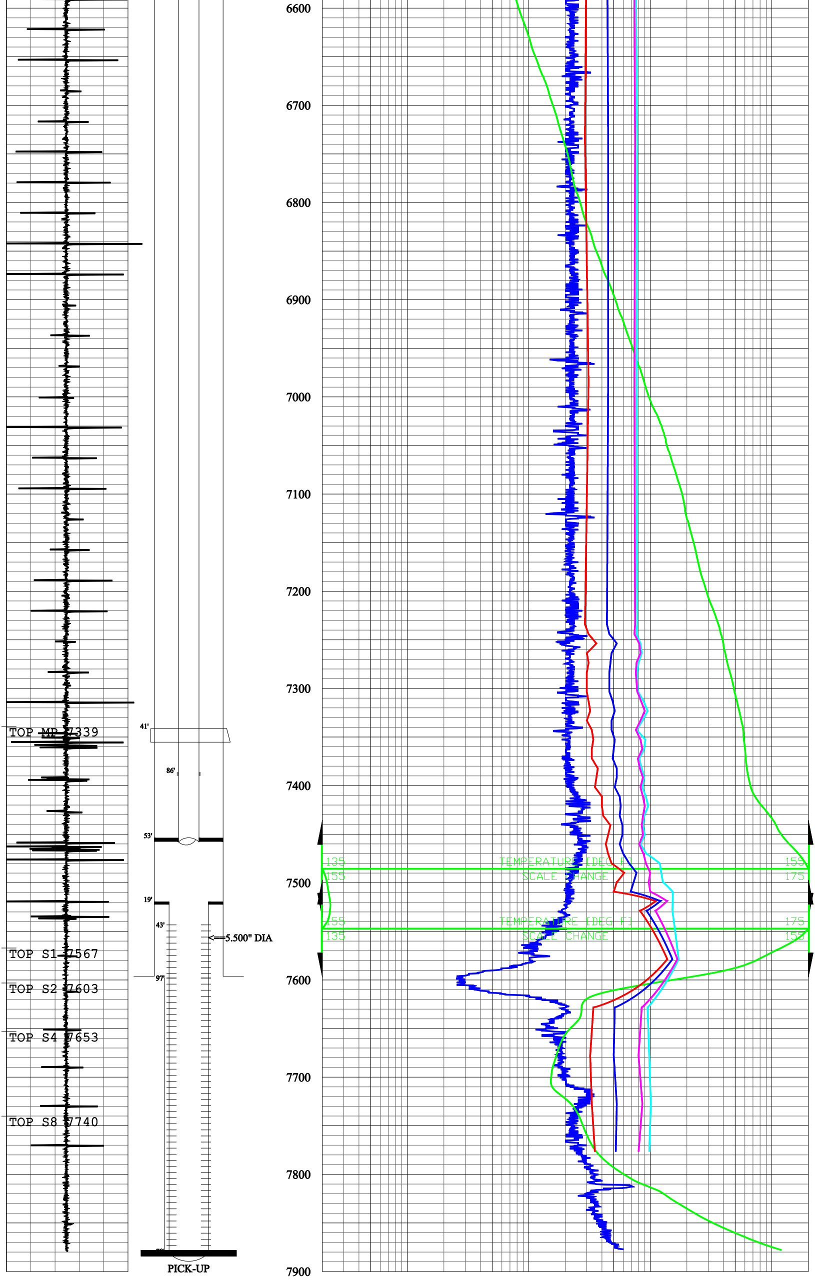5780	7.50	7.30	4.30	2.90
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6250	8.00	7.70	4.30	2.70
6500	7.50	7.30	4.40	3.00
6750	7.80	7.50	4.50	2.90
7000	7.70	7.40	4.50	3.10
7250	7.80	7.50	4.40	2.90
7260	7.70	7.40	4.60	3.10
7270	8.30	8.10	5.30	3.60
7280	8.50	8.30	4.80	3.00
7290	8.00	7.70	4.70	3.10
7300	7.80	7.60	4.60	3.00
7310	7.80	7.70	4.60	3.00
7320	7.90	7.80	4.60	3.00
7330	8.80	8.40	4.90	3.10
7340	9.50	9.00	5.10	3.20
7350	8.60	8.30	4.80	3.00
7360	7.70	7.60	4.80	3.30
7370	9.10	8.30	5.10	3.40
7380	8.90	8.60	5.00	3.30
7390	8.10	7.90	4.90	3.30
7400	8.50	8.20	5.30	3.70
7410	8.90	8.70	5.30	3.60
7420	8.60	8.30	5.10	3.50
7430	9.20	8.70	5.60	4.00
7440	9.60	9.00	5.70	4.00
7450	8.90	8.70	5.60	4.10
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7480	8.30	8.10	5.60	4.30
7490	9.30	8.80	6.00	4.50
7500	12.00	9.20	6.70	4.80
7510	12.30	10.00	7.70	6.10
7520	12.70	9.70	7.30	5.30
7530	15.30	10.00	6.90	5.00
7540	15.30	13.80	12.20	11.20
7550	15.20	11.00	9.30	8.20
7600	17.10	16.70	15.20	13.80
7650	9.50	8.50	5.10	3.40
7700	9.80	8.00	5.00	3.20
7750	10.10	8.60	5.30	3.30
7800	9.80	8.00	5.20	3.50