WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

FILING NO.

AJ

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

LOCATION:

DISTRICT 2

API NUMBER: 0403724127
SEC: 28 TWN: 3N RNG: 16W

OTHER SVC:

PERMANENT DATUM: GROUND LEVEL ELEV: 2366 FT.

LOG MEASURED FROM KB 23.5' ABOVE PERM DATUM

DRILLING MEASURED FROM

-ELEVATIONS-
KB: 2389.5 Ft.
DF: Ft.
GL: 2366 Ft.

DATE LOG RAN	03-14-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1202
EFFECTIVE DEPTH	7811'	CASING PSI			1202
PICKUP DEPTH	7346'	INJECTION RATE	N/A		
BOT LOGGED INT	7346'	OBSERVED RATE	N/A		
TOP LOGGED INT	25'	R/A SOURCE	N/A		
TYPE OF INJECT	N/A	ACTIVITY	N/A		
FLUID IN WELL	GAS	HALF LIFE	N/A		
FLUID LEVEL	N/A				
WELL STATUS	SHUT-IN			PRODUCTION DATA	
MAX TEMPERATURE	153.6 F.	OIL Gr.		OIL =	
AT DEPTH	7224.5'	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				

Equipment Data

Collar Locator	1.375"		
Temperature Tool	1.375"		
Audio Detector	1.375"		

Remarks/Survey Results

11:45AM ON LOCATION
12:47PM RAN IN HOLE
12:47PM BEGIN SURVEY
5:11PM PULL OUT OF HOLE
6:00PM OFF LOCATION

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SAND TAG MARKERS: 7068' TOP MP
                  7318' TOP S1
                  7364' TOP S2
                  7420' TOP S4
                  7493' TOP S8
                  7655' TOP FREW
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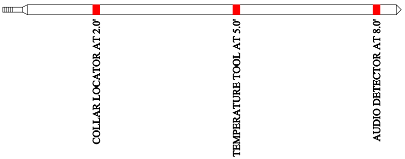
CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	1046'				
9.625"	47	SURFACE	7344'				
5.5"	17	7272'	7811'				
2.875"	6.5	SURFACE	7204'				

STR.	PIPE DIA.	PERFORATIONS
A	5.5"	7322'-7327', 7356'-7811'.
		PACKERS: 7200'-7205'.
		GAS LIFT MANDRELS: 7086.3'-7100.38'.
		SLIDING SLEEVES: 7132'.
		NO-GO: 7167'.

TOOL DIAGRAM



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     Audio Data:  c:\data\noise.txt
--------------------------------------------------
   DEPTH |   200HZ |   600HZ |  1000HZ |  2000HZ |
--------------------------------------------------
      50 |    8.30 |    7.50 |    6.10 |    2.80 |
     200 |    9.10 |    8.50 |    4.20 |    2.60 |
     250 |    9.00 |    8.40 |    4.20 |    2.60 |
     350 |    8.30 |    7.70 |    3.90 |    2.30 |
     370 |   10.00 |    9.30 |    4.50 |    2.70 |
     390 |    9.50 |    8.80 |    4.10 |    2.40 |
     410 |   10.50 |   10.00 |    4.70 |    2.40 |
     430 |   10.40 |    9.90 |    4.80 |    2.80 |
     450 |    9.00 |    8.50 |    4.30 |    2.50 |
     470 |    8.60 |    8.10 |    4.00 |    2.40 |
     490 |   10.80 |    9.80 |    4.80 |    2.90 |
     510 |   10.30 |    9.60 |    4.80 |    2.90 |
     530 |    9.60 |    8.80 |    4.70 |    2.90 |
     549 |    8.80 |    8.30 |    4.30 |    2.80 |
     570 |   10.40 |    9.40 |    5.00 |    3.20 |
     590 |   10.60 |   10.00 |    5.00 |    2.90 |
     610 |    9.80 |    9.20 |    4.70 |    2.90 |
     630 |    9.60 |    9.10 |    4.60 |    2.80 |
     650 |   10.30 |    9.70 |    4.80 |    2.70 |
     700 |    9.40 |    8.80 |    4.20 |    2.40 |
     750 |    7.80 |    7.20 |    3.80 |    2.60 |
     800 |    9.50 |    9.00 |    4.50 |    2.60 |
     850 |    9.70 |    8.80 |    4.50 |    2.60 |
     900 |   10.30 |    9.60 |    4.90 |    2.90 |
     920 |   10.00 |    9.60 |    4.80 |    2.80 |
     930 |    8.80 |    8.10 |    4.40 |    2.90 |
     940 |    8.80 |    8.20 |    4.20 |    2.50 |
     950 |    8.00 |    7.60 |    4.20 |    2.80 |
     960 |    8.00 |    7.50 |    4.10 |    2.80 |
     970 |    8.00 |    7.60 |    4.20 |    2.80 |
     980 |    8.00 |    7.60 |    4.20 |    2.80 |
     990 |    8.00 |    7.60 |    4.20 |    2.80 |
    1000 |    8.00 |    7.60 |    4.20 |    2.80 |
    1010 |    9.60 |    8.90 |    4.90 |    3.20 |
    1020 |    8.00 |    7.60 |    4.20 |    2.80 |
    1030 |    7.90 |    7.50 |    4.20 |    2.80 |
    1040 |    9.40 |    8.90 |    4.70 |    3.00 |
    1050 |    9.00 |    8.70 |    4.50 |    2.80 |
    1200 |    8.70 |    8.40 |    4.50 |    2.80 |
    1230 |    9.50 |    9.00 |    4.70 |    2.90 |
    1250 |    8.80 |    8.40 |    4.50 |    2.80 |
    1270 |    9.10 |    8.80 |    4.60 |    2.80 |
    1290 |    9.00 |    8.70 |    4.60 |    2.80 |
    1310 |    9.10 |    8.70 |    4.60 |    2.80 |
    1329 |    9.10 |    8.60 |    4.60 |    2.90 |
    1350 |    7.90 |    7.60 |    4.20 |    2.80 |
    1370 |    9.70 |    9.10 |    4.80 |    2.90 |
    1389 |    9.40 |    9.00 |    4.80 |    2.80 |
    1410 |    9.60 |    9.10 |    4.90 |    2.90 |
    1430 |    8.80 |    8.50 |    4.50 |    2.80 |
    1450 |    8.90 |    8.50 |    4.40 |    2.60 |
    1550 |    9.70 |    9.30 |    4.80 |    2.90 |
    1800 |    9.20 |    8.80 |    4.60 |    2.60 |
    2050 |    9.70 |    9.30 |    4.90 |    2.90 |
    2300 |    8.50 |    8.30 |    4.50 |    2.80 |
    2550 |    8.80 |    8.60 |    4.50 |    2.70 |
    2800 |    8.10 |    7.90 |    4.00 |    2.30 |
    2810 |    8.80 |    7.60 |    4.20 |    2.70 |
    2820 |    9.10 |    8.80 |    4.60 |    2.80 |
    2830 |    9.00 |    8.80 |    4.70 |    2.80 |
    2840 |    8.50 |    7.80 |    4.40 |    2.80 |
    2850 |    8.70 |    8.40 |    4.60 |    2.90 |
    2860 |    8.90 |    8.60 |    4.60 |    2.90 |
    2870 |    9.00 |    8.60 |    4.60 |    2.80 |
    2880 |    8.40 |    8.20 |    4.50 |    2.80 |
    2890 |    7.70 |    7.50 |    4.30 |    2.80 |
    2900 |    8.50 |    8.30 |    4.50 |    2.80 |
    3100 |    8.90 |    8.60 |    4.60 |    2.80 |
    3350 |    8.10 |    7.90 |    4.40 |    2.80 |
    3600 |    8.60 |    8.30 |    4.50 |    2.80 |
    3850 |    8.70 |    8.50 |    4.60 |    2.80 |
    4100 |    8.20 |    8.00 |    4.40 |    2.70 |
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 4350 |    9.20 |    9.00 |    4.40 |    2.30 |
 4600 |    9.00 |    8.60 |    4.60 |    2.70 |
 4620 |    9.40 |    9.00 |    4.90 |    3.00 |
 4640 |    8.80 |    8.60 |    4.70 |    2.90 |
 4660 |    8.40 |    8.10 |    4.50 |    2.90 |
 4680 |    9.30 |    8.80 |    4.90 |    3.00 |
 4700 |    8.90 |    8.60 |    4.70 |    2.90 |
 4720 |    8.30 |    8.10 |    4.50 |    2.70 |
 4740 |    8.00 |    7.70 |    4.40 |    2.80 |
 4760 |    8.40 |    8.20 |    4.40 |    2.70 |
 4780 |    8.40 |    8.20 |    4.40 |    2.70 |
 4800 |    8.60 |    8.30 |    4.60 |    2.80 |
 4820 |    9.00 |    8.70 |    4.70 |    2.80 |
 4840 |    8.60 |    8.30 |    4.60 |    2.90 |
 4859 |    8.30 |    8.00 |    4.50 |    2.90 |
 4879 |    8.60 |    8.30 |    4.60 |    2.90 |
 4900 |    7.80 |    7.70 |    4.40 |    2.80 |
 4920 |    8.90 |    8.60 |    4.70 |    2.90 |
 4940 |    8.70 |    8.50 |    4.60 |    2.70 |
 4960 |    7.70 |    7.50 |    4.30 |    2.80 |
 4980 |    8.00 |    7.70 |    4.40 |    2.90 |
 5000 |    7.60 |    7.50 |    4.30 |    2.80 |
 5020 |    7.70 |    7.50 |    4.30 |    2.80 |
 5040 |    7.60 |    7.40 |    4.30 |    2.80 |
 5060 |    8.90 |    8.50 |    4.70 |    2.90 |
 5080 |    8.30 |    8.10 |    4.50 |    2.80 |
 5100 |    9.80 |    9.20 |    5.10 |    3.10 |
 5120 |    9.70 |    9.30 |    5.00 |    2.90 |
 5140 |    9.50 |    9.20 |    4.50 |    2.30 |
 5160 |    8.10 |    7.80 |    4.20 |    2.50 |
 5180 |    8.80 |    8.40 |    4.60 |    2.90 |
 5200 |    9.10 |    8.70 |    4.80 |    3.00 |
 5220 |    9.00 |    8.60 |    4.70 |    2.90 |
 5239 |    8.30 |    8.00 |    4.50 |    2.90 |
 5259 |    8.60 |    8.30 |    4.60 |    2.90 |
 5280 |    8.20 |    8.00 |    4.50 |    2.90 |
 5300 |    8.50 |    8.30 |    4.60 |    2.90 |
 5320 |    9.10 |    8.90 |    4.80 |    2.90 |
 5340 |    8.80 |    8.60 |    4.70 |    2.90 |
 5360 |    8.60 |    8.40 |    4.60 |    2.90 |
 5380 |    8.00 |    7.80 |    4.40 |    2.90 |
 5400 |   10.00 |    9.70 |    5.10 |    2.90 |
 5419 |    8.10 |    7.90 |    4.40 |    2.80 |
 5440 |    8.10 |    7.90 |    4.40 |    2.80 |
 5460 |    7.80 |    7.60 |    4.30 |    2.80 |
 5480 |    8.50 |    8.30 |    4.60 |    2.80 |
 5500 |    9.00 |    8.70 |    4.80 |    2.90 |
 5520 |    8.80 |    8.60 |    4.70 |    2.80 |
 5540 |    8.90 |    8.70 |    4.70 |    2.90 |
 5560 |    8.70 |    8.30 |    4.60 |    2.90 |
 5580 |    8.80 |    8.60 |    4.70 |    2.90 |
 5600 |    8.20 |    8.00 |    4.50 |    2.80 |
 5619 |    8.30 |    8.10 |    4.50 |    2.90 |
 5640 |    8.30 |    8.10 |    4.50 |    2.80 |
 5660 |    8.30 |    8.10 |    4.50 |    2.80 |
 5680 |    8.40 |    8.20 |    4.40 |    2.70 |
 5700 |    8.60 |    8.30 |    4.60 |    2.90 |
 5720 |    8.80 |    8.60 |    4.70 |    2.90 |
 5739 |    8.30 |    8.10 |    4.50 |    2.90 |
 5759 |    8.00 |    7.80 |    4.40 |    2.80 |
 5780 |    9.00 |    8.60 |    4.80 |    3.00 |
 5800 |    8.70 |    8.20 |    4.50 |    2.80 |
 6100 |    8.50 |    8.20 |    4.60 |    3.00 |
 6350 |    8.40 |    8.00 |    4.80 |    3.20 |
 6600 |    8.10 |    7.90 |    4.50 |    2.90 |
 6850 |    7.70 |    7.50 |    4.40 |    2.90 |
 7100 |    8.50 |    8.30 |    4.70 |    2.90 |
 7110 |    8.50 |    8.30 |    4.70 |    2.90 |
 7120 |    8.50 |    8.30 |    4.70 |    2.90 |
 7130 |    9.70 |    9.10 |    5.20 |    3.10 |
 7140 |    9.20 |    8.70 |    4.90 |    3.00 |
 7150 |    8.10 |    7.90 |    4.70 |    2.90 |
 7160 |    8.30 |    8.10 |    4.90 |    3.10 |
 7170 |    9.60 |    8.60 |    5.10 |    3.20 |
 7180 |    8.80 |    8.30 |    4.80 |    3.10 |
 7190 |    8.70 |    8.00 |    4.80 |    3.10 |
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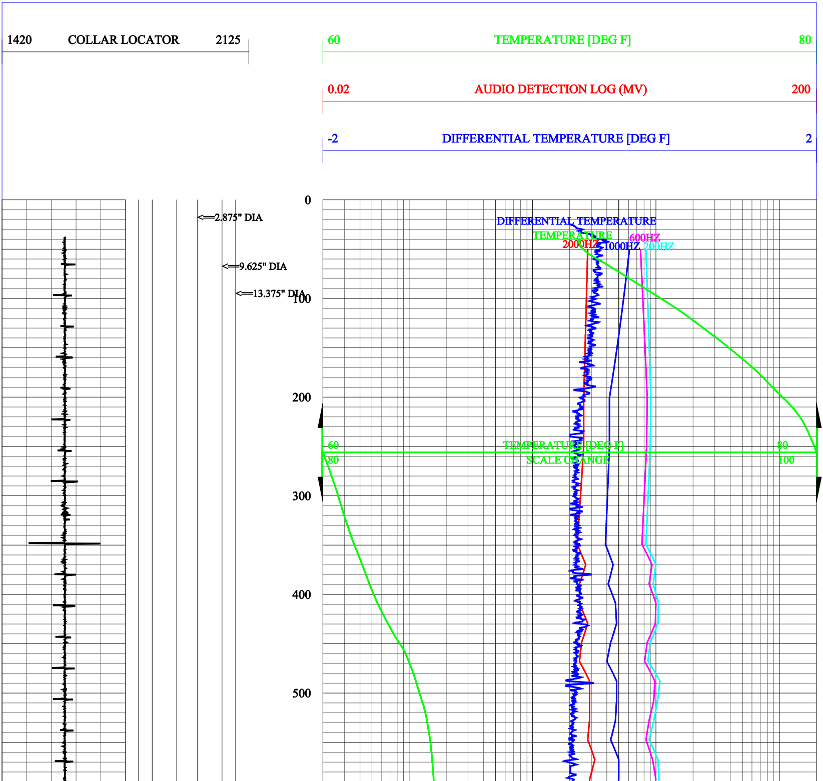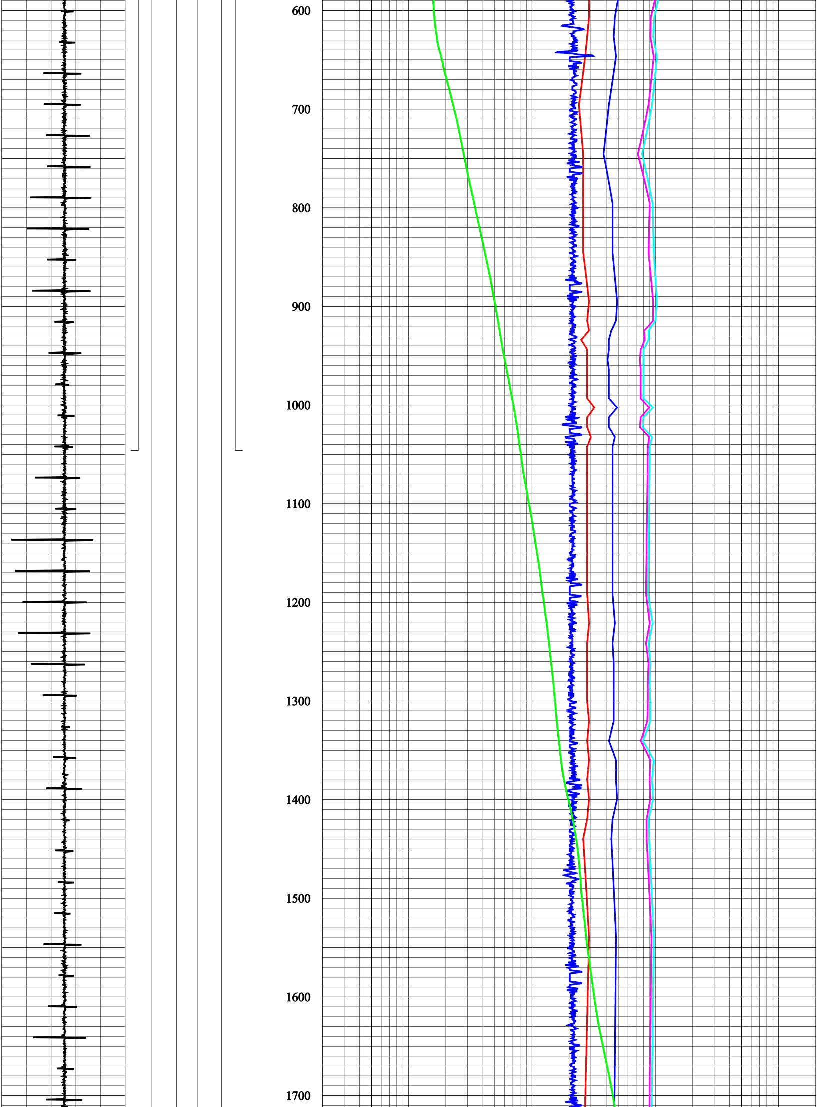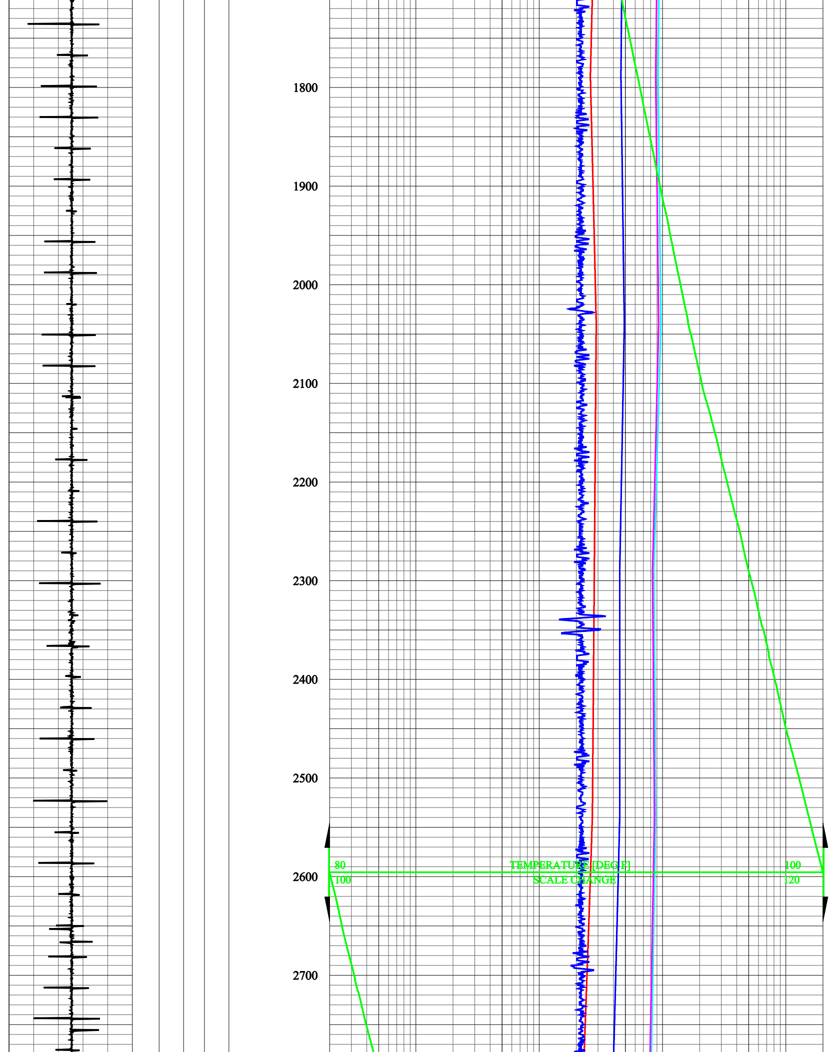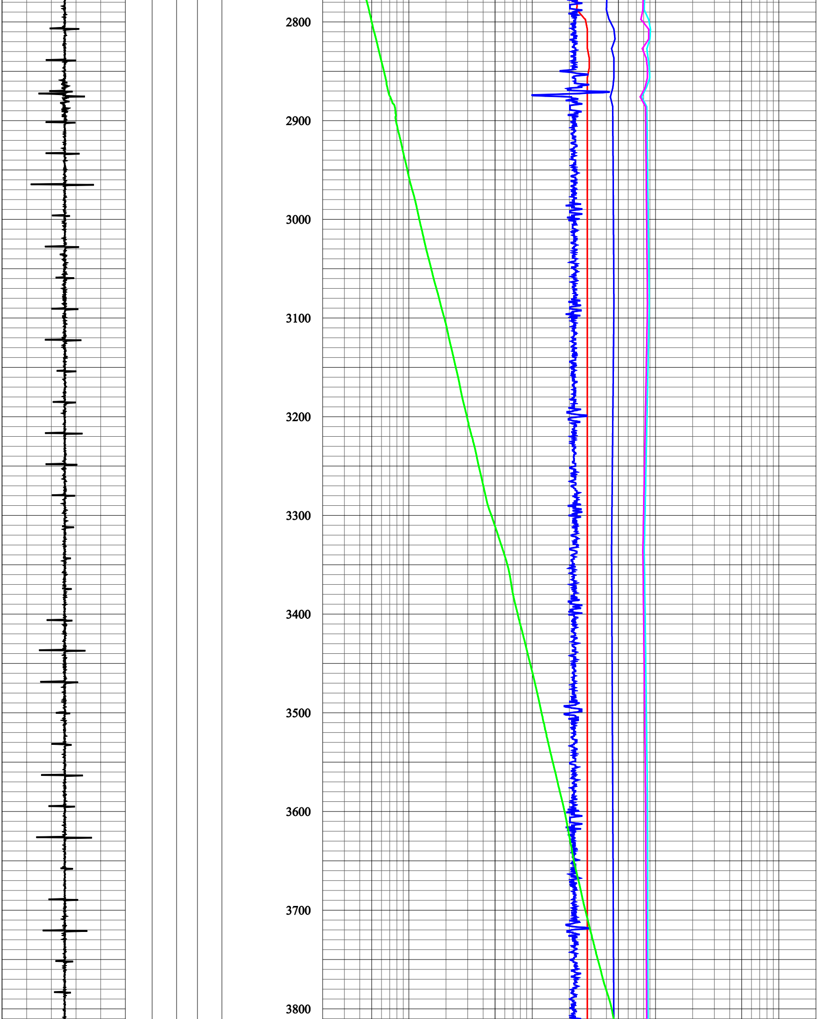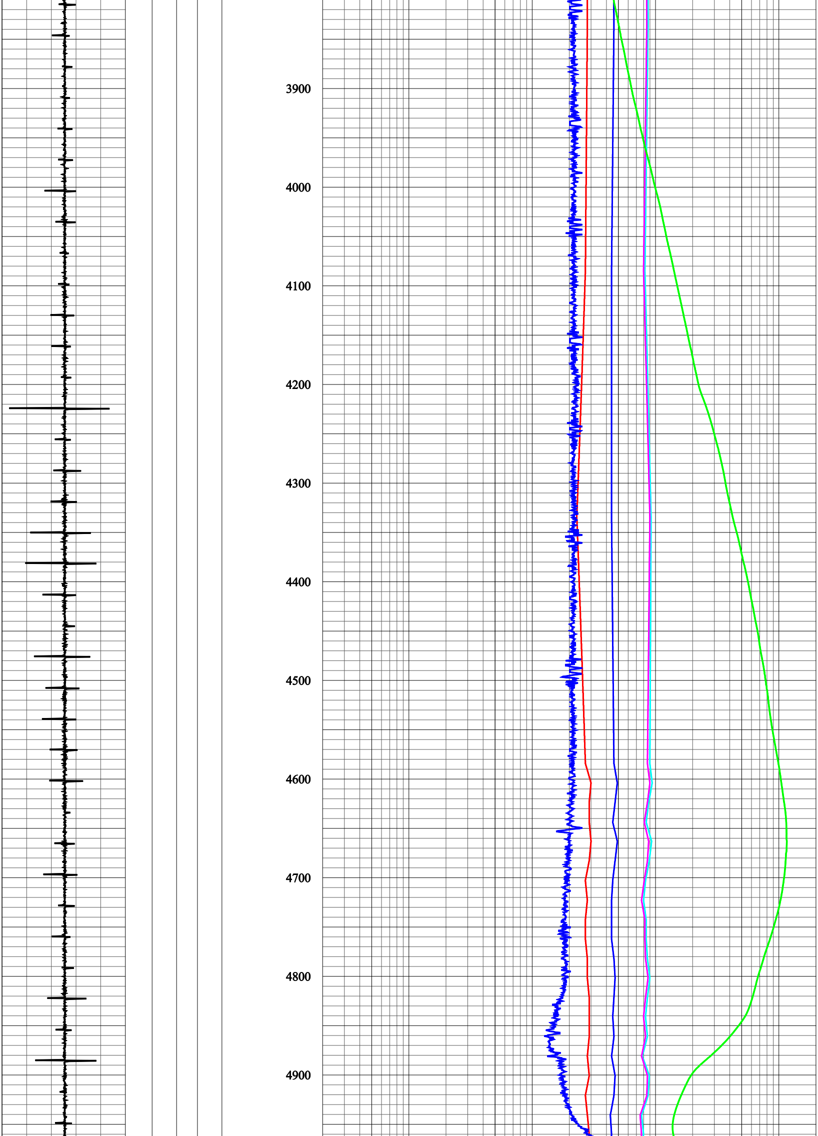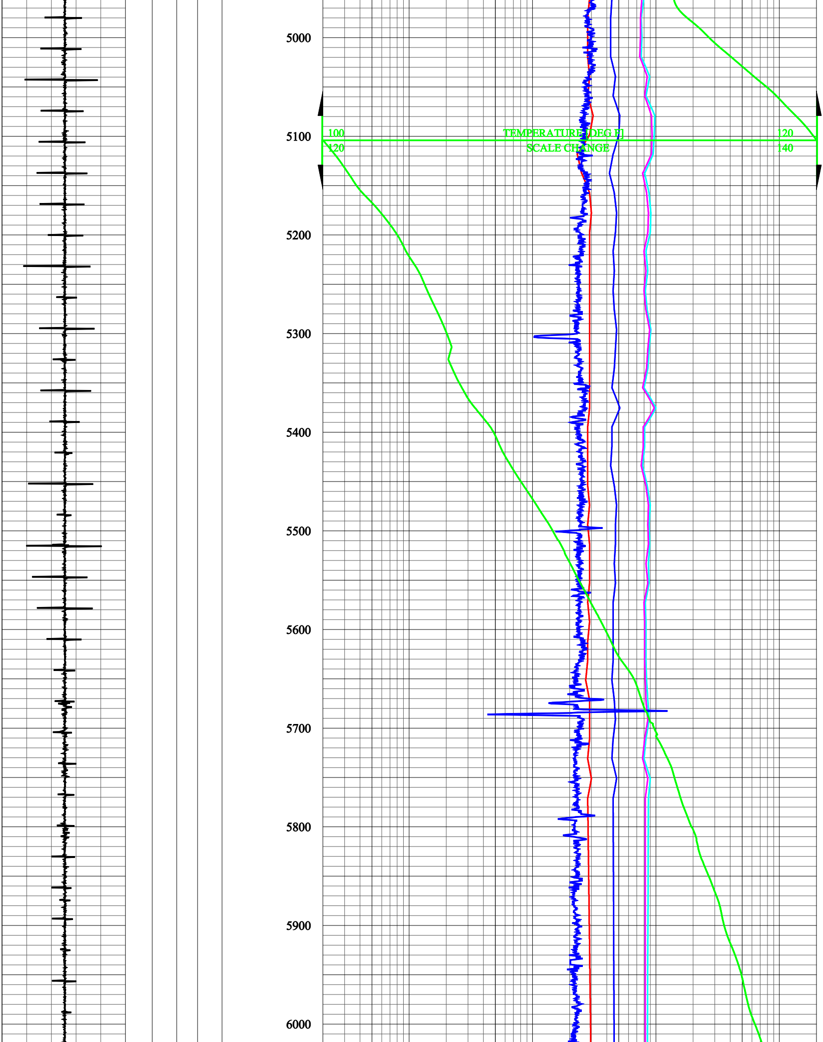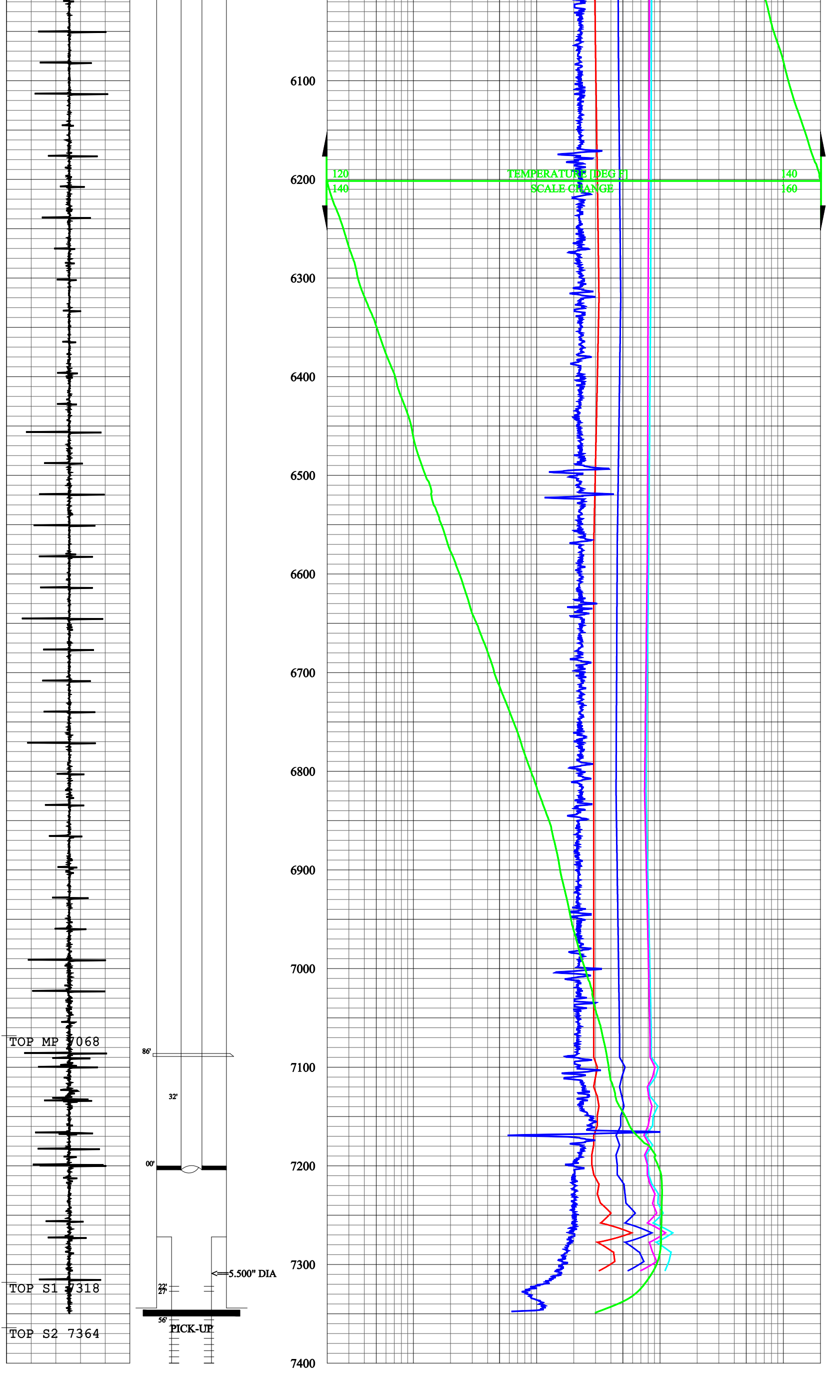7200	7.60	7.40	4.40	2.90
7210	8.70	8.20	4.70	2.90
7220	7.70	7.50	4.40	2.80
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7240	8.10	7.90	4.50	2.90
7250	8.60	8.30	5.10	3.20
7260	9.70	9.10	5.20	3.10
7270	9.60	8.70	5.30	3.30
7280	10.60	9.40	6.30	4.00
7290	8.80	7.90	5.20	3.30
7300	12.70	11.10	8.60	5.90
7310	9.30	8.20	5.20	3.10
7320	12.30	8.70	6.80	4.20
7330	11.80	9.40	7.40	4.30
7340	10.90	6.70	5.30	3.10