WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

FILING NO.

COMPANY: SOUTHERN CALIF. GAS CO.
WELL: PORTER 50C
FIELD: ALISO CANYON
COUNTY: LOS ANGELES STATE: CALIFORNIA
LOCATION: OTHER SVC:
DISTRICT 2

API NUMBER: 0403724337
SEC: 27 TWN: 3N RNG: 16W

VS

PERMANENT DATUM: GROUND LEVEL ELEV:
LOG MEASURED FROM MAT 0' ABOVE PERM DATUM
DRILLING MEASURED FROM

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

DATE LOG RAN	03-08-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1057
EFFECTIVE DEPTH	8749'	CASING PSI			1057
PICKUP DEPTH	7137'	INJECTION RATE	N/A		
BOT LOGGED INT	7137'	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	167.4 F	OIL Gr.		OIL =	
AT DEPTH	7137.0'	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	LINER TOP				

Equipment Data

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

Remarks/Survey Results

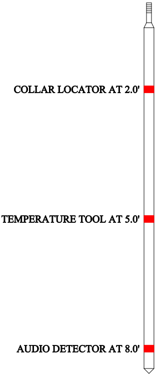
7:30AM ON LOCATION
8:00AM RAN IN HOLE
8:10AM BEGIN SURVEY
11:15AM PULL OUT OF HOLE
11:30AM OFF LOCATION

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"		SURFACE	1012'				
9.625"	78	SURFACE	7307'				
5.50"	15.5	7130.5'	8749'				
3.50"	9.3	SURFACE	7096.3'				

STR.	PIPE DIA.	PERFORATIONS
		PACKERS: 7086.8'-7095'.
		GAS LIFT MANDRELS: 6971.5'-6977.6'.
		SLEEVES: 7011.5'-7014.9'.
		NO-GO: 7046.3'.

TOOL DIAGRAM



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     Audio Data:  c:\data\noise.txt
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    DEPTH |   200HZ |   600HZ |  1000HZ |  2000HZ |  COMMENTS
 -------------------------------------------------------------------
      100 |   13.40 |    6.40 |    4.50 |    3.10 |
      250 |    9.00 |    5.70 |    3.70 |    2.40 |
      500 |    8.00 |    5.80 |    3.70 |    2.40 |
      750 |    7.80 |    5.60 |    3.70 |    2.50 |
     1000 |    7.50 |    5.40 |    3.60 |    2.40 |
     1100 |    7.60 |    5.50 |    3.70 |    2.40 |
     1120 |    7.60 |    5.50 |    3.70 |    2.50 |
     1140 |    7.50 |    5.40 |    3.50 |    2.30 |
     1160 |    7.50 |    5.50 |    3.60 |    2.40 |
     1180 |    7.40 |    5.40 |    3.50 |    2.30 |
     1200 |    7.50 |    5.40 |    3.60 |    2.40 |
     1220 |    7.50 |    5.40 |    3.50 |    2.30 |
     1240 |    7.40 |    5.30 |    3.50 |    2.30 |
     1260 |    7.30 |    5.30 |    3.50 |    2.30 |
     1280 |    7.40 |    5.40 |    3.50 |    2.30 |
     1300 |    7.50 |    5.50 |    3.70 |    2.40 |
     1320 |    7.30 |    5.30 |    3.50 |    2.30 |
     1340 |    7.30 |    5.30 |    3.50 |    2.30 |
     1360 |    7.40 |    5.40 |    3.50 |    2.30 |
     1380 |    7.30 |    5.30 |    3.50 |    2.30 |
     1400 |    7.40 |    5.40 |    3.50 |    2.30 |
     1420 |    7.50 |    5.40 |    3.60 |    2.30 |
     1440 |    7.50 |    5.40 |    3.60 |    2.40 |
     1460 |    7.40 |    5.40 |    3.50 |    2.30 |
     1480 |    9.50 |    6.30 |    4.30 |    2.80 |
     1500 |    7.30 |    5.30 |    3.50 |    2.30 |
     1750 |    7.50 |    5.50 |    3.60 |    2.40 |
     2000 |    7.20 |    5.40 |    3.50 |    2.30 |
     2250 |    7.70 |    5.50 |    3.70 |    2.40 |
     2500 |    7.70 |    5.40 |    3.60 |    2.50 |
     2750 |    7.10 |    5.30 |    3.60 |    2.50 |
     3000 |    7.20 |    5.30 |    3.60 |    2.40 |
     3250 |    7.80 |    5.60 |    3.70 |    2.50 |
     3500 |    7.20 |    5.30 |    3.60 |    2.40 |
     3750 |    7.00 |    5.20 |    3.60 |    2.40 |
     3800 |    6.90 |    5.20 |    3.50 |    2.40 |
     3900 |   13.50 |    6.00 |    4.00 |    2.50 |
     3920 |   10.30 |    5.80 |    3.80 |    2.40 |
     3940 |    7.90 |    5.50 |    3.60 |    2.40 |
     3960 |    6.80 |    5.20 |    3.50 |    2.40 |
     3980 |    6.80 |    5.20 |    3.50 |    2.40 |
     4000 |    6.80 |    5.20 |    3.50 |    2.40 |
     4020 |   11.90 |    6.90 |    5.00 |    3.80 |
     4040 |   14.40 |    7.00 |    4.50 |    2.70 |
     4060 |   24.10 |    8.90 |    5.70 |    3.30 |
     4080 |   25.60 |    9.30 |    6.00 |    3.50 |
     4100 |   25.10 |    8.80 |    5.60 |    3.20 |
     4120 |   35.80 |    9.80 |    5.90 |    3.10 |
     4140 |   30.10 |   10.10 |    6.40 |    3.60 |
     4160 |   28.90 |    9.20 |    5.80 |    3.20 |
     4180 |   23.70 |    9.60 |    6.40 |    3.80 |
     4200 |   24.80 |   10.30 |    6.90 |    4.00 |
     4220 |   27.20 |    9.50 |    6.30 |    3.60 |
     4240 |   25.10 |   12.90 |   10.40 |    7.80 |
     4250 |   23.80 |    9.10 |    5.90 |    3.40 |  SOUND LIKE WATER
     4500 |   10.20 |    6.00 |    4.00 |    2.60 |
     4750 |    8.50 |    6.00 |    4.10 |    2.80 |
     5000 |    9.50 |    6.00 |    4.00 |    2.60 |
     5250 |    6.50 |    5.20 |    3.40 |    2.40 |
     5450 |    8.00 |    5.70 |    3.80 |    2.50 |  BUMPING NOISE
     5750 |    6.50 |    5.20 |    3.40 |    2.40 |
     6000 |    6.40 |    5.20 |    3.50 |    2.50 |
     6250 |    6.30 |    5.20 |    3.40 |    2.40 |
     6500 |    6.30 |    5.20 |    3.40 |    2.40 |
     6750 |    6.20 |    5.20 |    3.40 |    2.40 |
     6800 |    6.20 |    5.20 |    3.40 |    2.40 |
     6900 |    6.20 |    5.20 |    3.40 |    2.40 |
     6920 |    6.20 |    5.20 |    3.40 |    2.40 |
     6940 |    6.10 |    5.20 |    3.40 |    2.40 |
     6960 |    6.10 |    5.20 |    3.40 |    2.40 |
     6980 |    6.10 |    5.20 |    3.40 |    2.30 |
     7000 |    6.10 |    5.30 |    3.40 |    2.40 |
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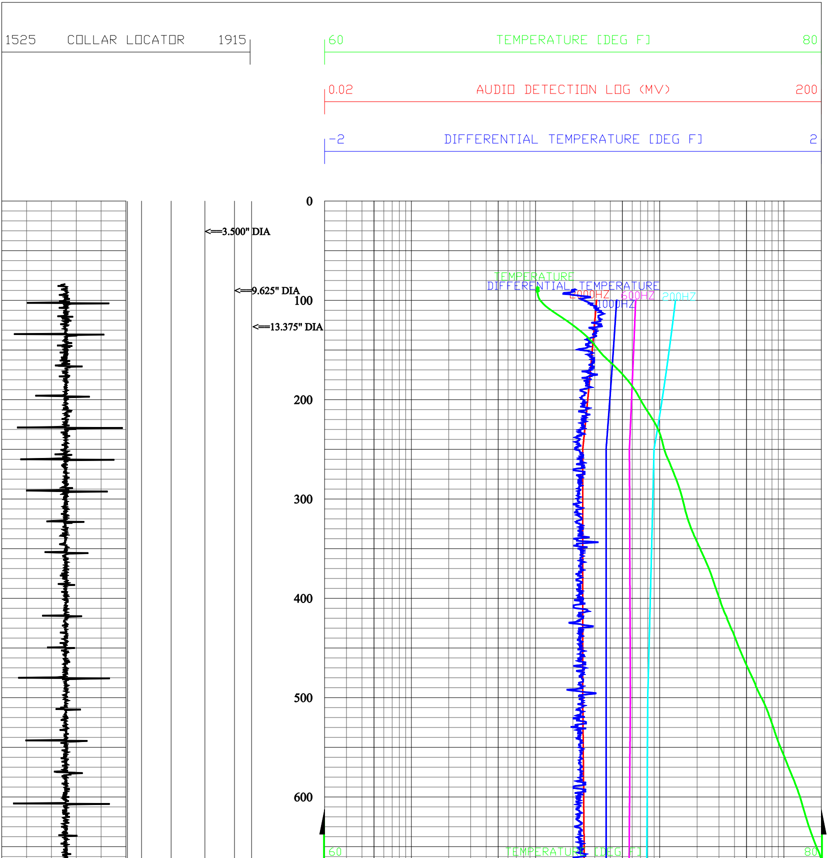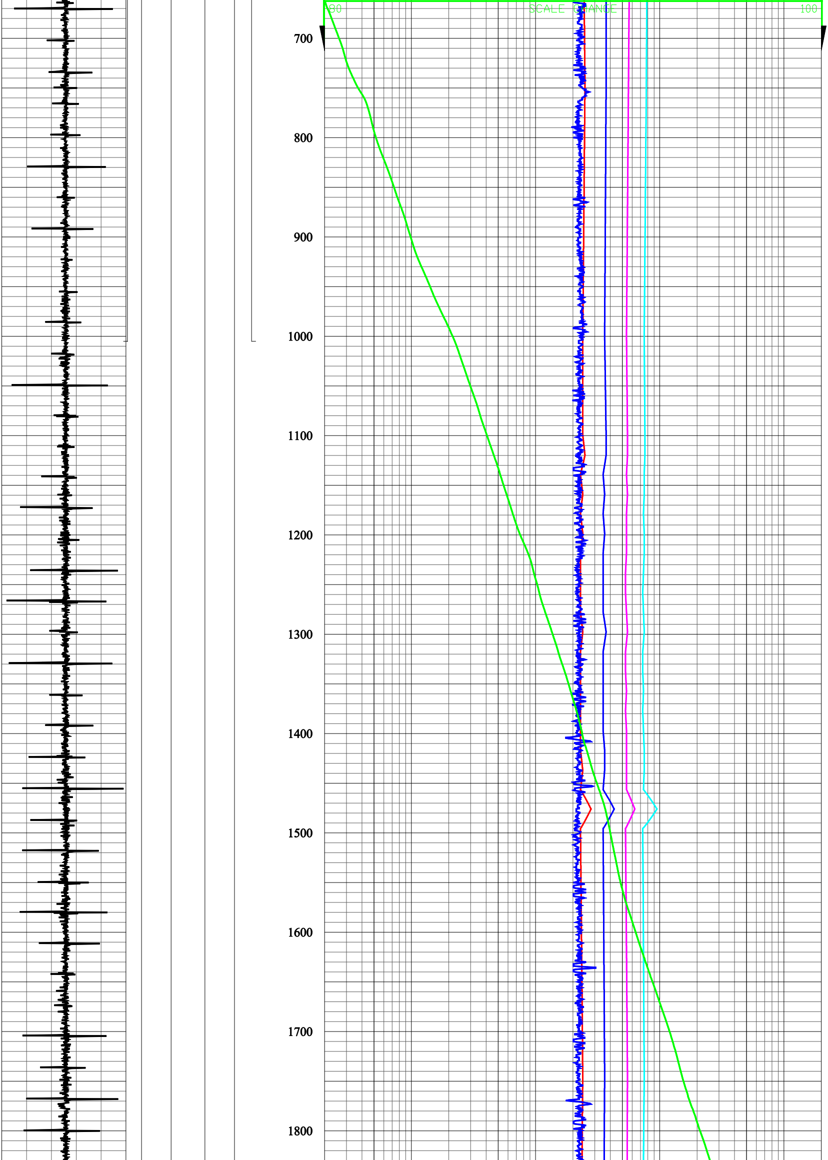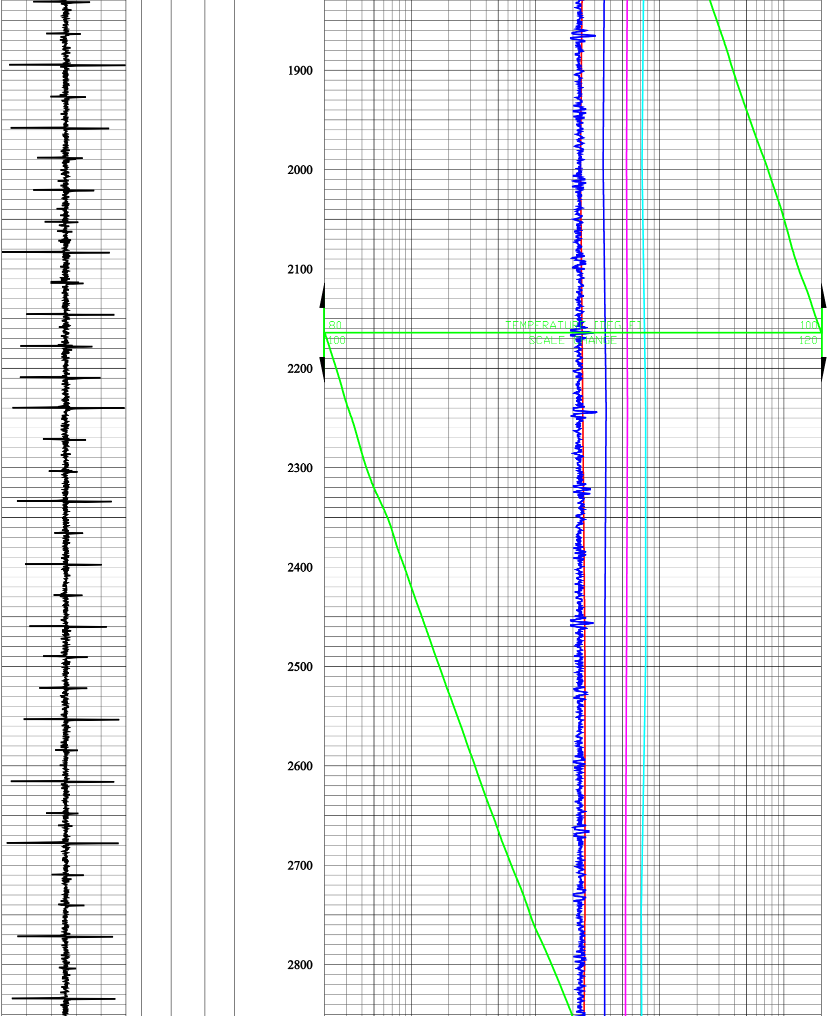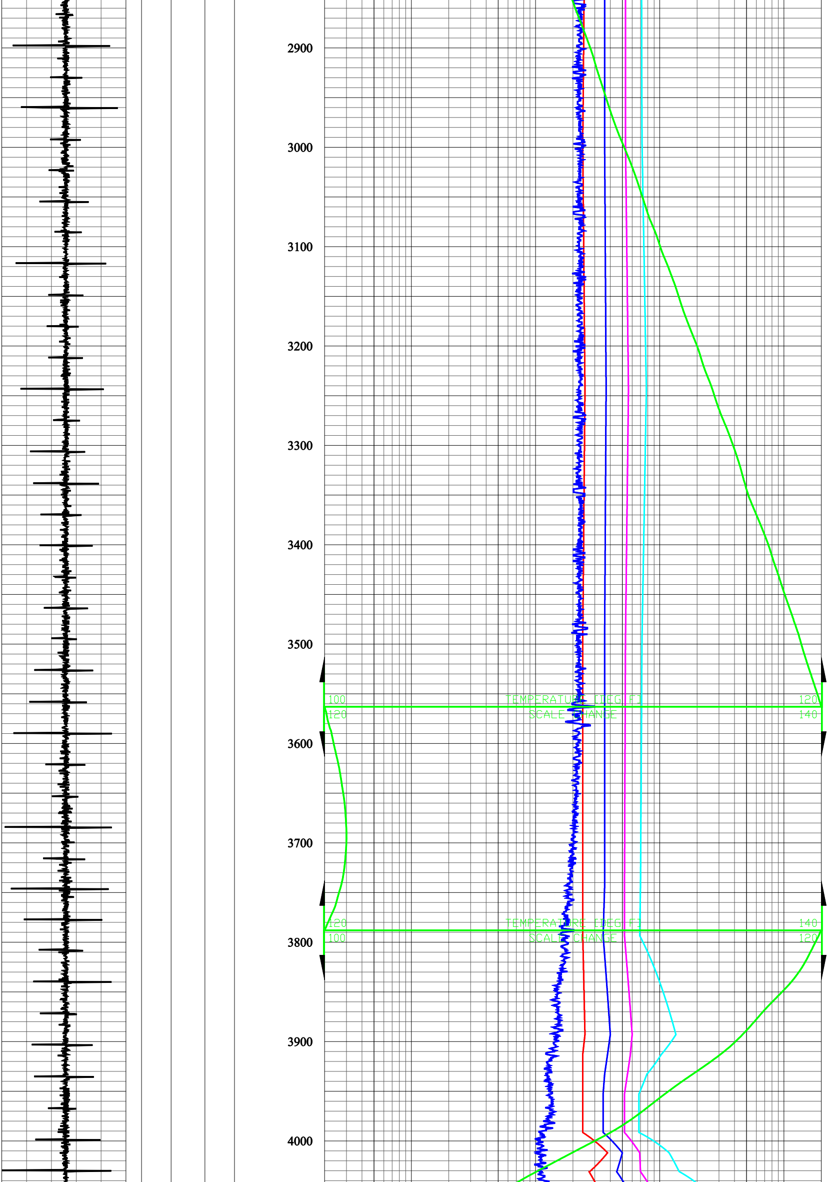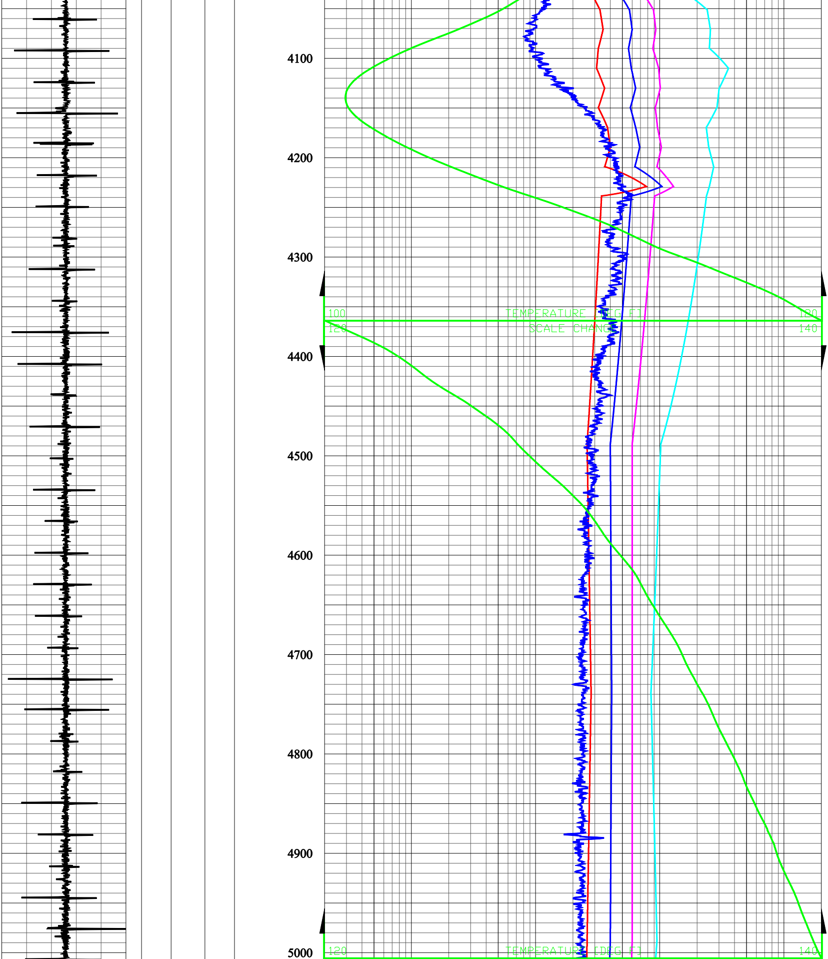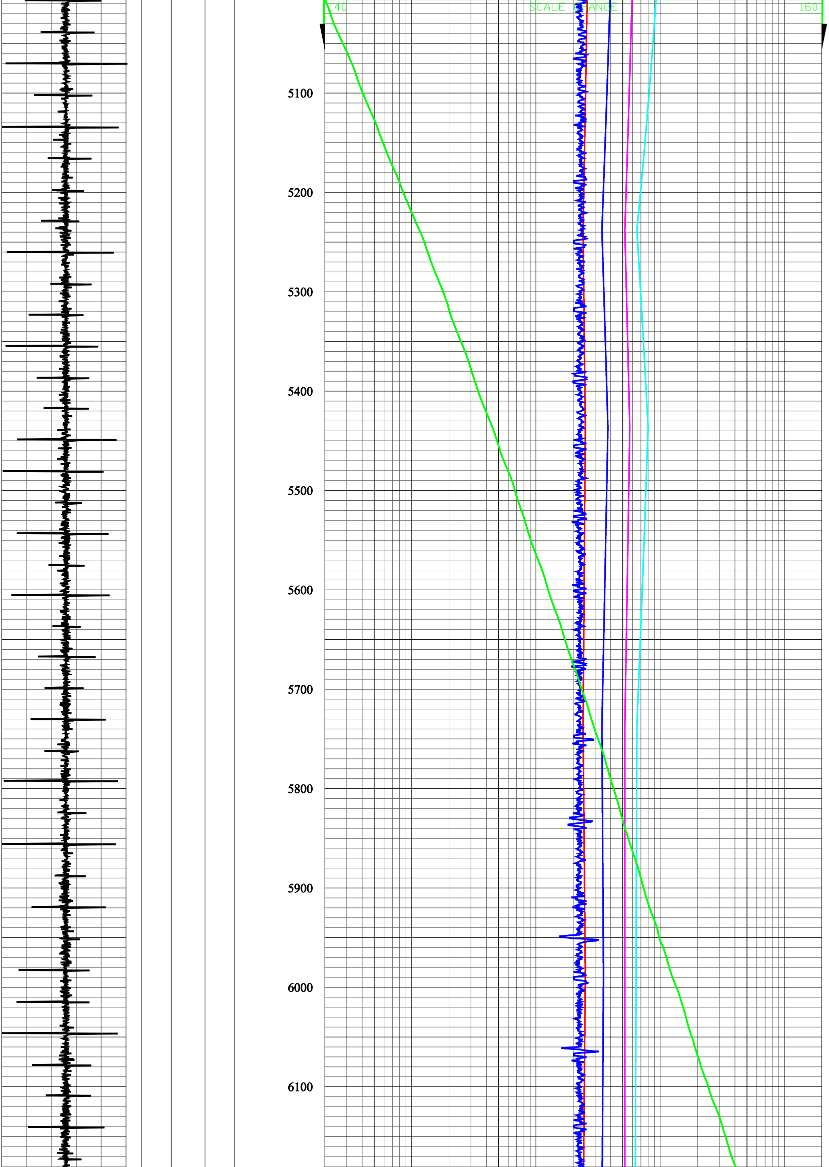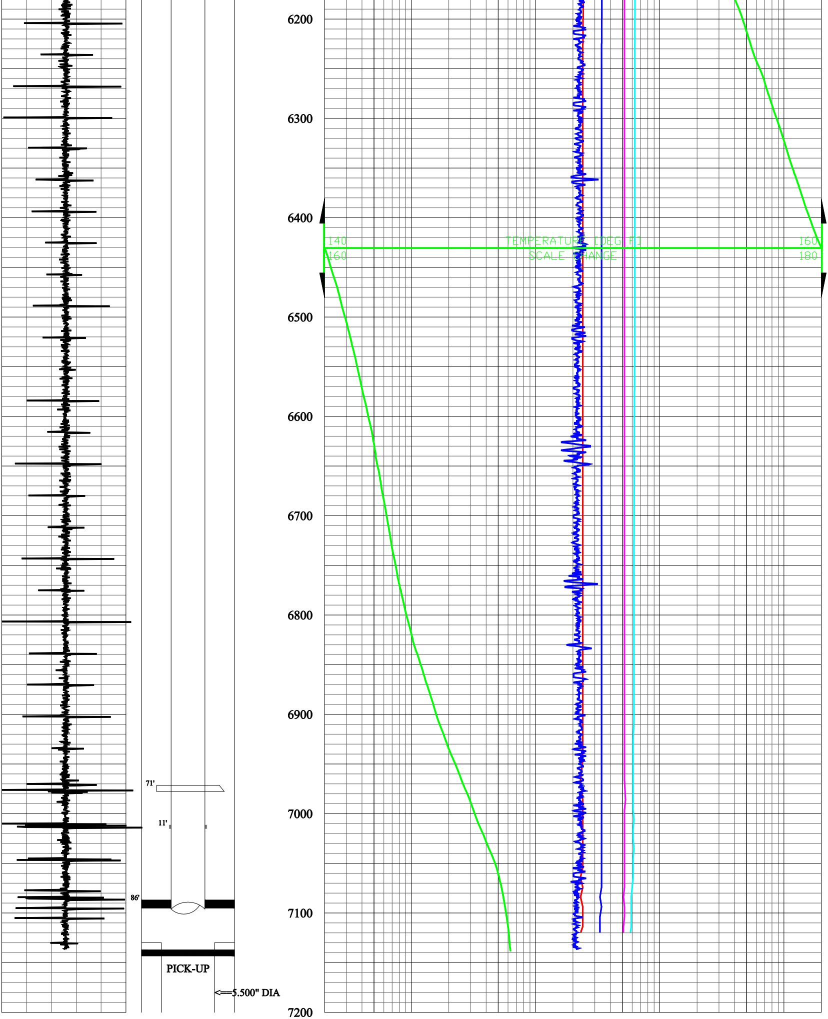7010	6.10	5.20	3.40	2.40
7020	6.20	5.20	3.40	2.40
7030	6.10	5.20	3.40	2.40
7040	6.10	5.20	3.40	2.40
7050	6.20	5.20	3.40	2.40
7060	6.10	5.20	3.40	2.40
7070	6.10	5.20	3.40	2.40
7080	6.10	5.20	3.40	2.30
7090	6.00	5.20	3.40	2.40
7100	5.90	5.10	3.30	2.30
7110	5.90	5.20	3.40	2.40
7120	5.90	5.20	3.30	2.40
7130	5.90	5.10	3.30	2.40
7137	5.80	5.10	3.30	2.30