WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE
GS, OG

BFW

COMPANY: SOUTHERN CALIF. GAS CO.
WELL: FERNANDO FEE 35D
FIELD: ALISO CANYON
COUNTY: LOS ANGELES STATE: CALIFORNIA

LOCATION:
DISTRICT 2

API NUMBER: 0403721453
SEC: 34 TWN: 3N RNG: 16W

OTHER SVC:

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	03-22-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1245
EFFECTIVE DEPTH	7270'	CASING PSI			1245
PICKUP DEPTH	7238'	INJECTION RATE	N|A		
BOT LOGGED INT	7238'	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	158.4 F	OIL Gr.	N|A	OIL =	N|A
AT DEPTH	6930.0'	GAS Gr.	N|A	GAS=	N|A
TEMPERATURE SENS	1 F/DIV.	MPP	N|A	BHP =	N|A
LOGGING SPEED	VARIOUS			WATER=	N|A
RECORDED BY	C.BARAJAS				
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

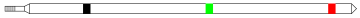
SANDTAG MARKERS: 6380' TOP MP
7068' TOP S1
7144' TOP S4
7220' TOP S8

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	48	SURFACE	791'				
8.625"	36	SURFACE	7148'				
6.625"	24	7102'	7270'				
2.875"	6.5	SURFACE	7098.4'				

STR.	PIPE DIA.	PERFORATIONS
A	8.625"	SQUEEZED: 3337', SQUEEZED: 5595'.
A	6.625"	7146'-7270'.
		PACKERS: 7086.2'-7093.1'.
		NO-GO: 7084.3'.

TOOL DIAGRAM



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     Audio Data:  c:\data\noise.txt
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    DEPTH |   200HZ |   600HZ |  1000HZ |  2000HZ |
 --------------------------------------------------
      100 |    4.90 |    4.00 |    2.10 |    1.00 |
      250 |    5.50 |    4.00 |    2.30 |    1.00 |
      500 |    4.90 |    4.30 |    2.50 |    1.10 |
      700 |    4.20 |    3.70 |    2.00 |    1.00 |
      720 |    4.40 |    3.80 |    2.10 |    1.00 |
      740 |    4.10 |    3.60 |    2.00 |    0.90 |
      760 |    4.30 |    3.80 |    2.00 |    0.90 |
      780 |    4.10 |    3.70 |    2.00 |    0.90 |
      800 |    4.90 |    4.00 |    2.30 |    1.20 |
      820 |    4.80 |    4.10 |    2.30 |    1.10 |
      840 |    4.90 |    4.30 |    2.40 |    1.20 |
      860 |    4.40 |    4.00 |    2.10 |    1.00 |
      880 |    4.40 |    3.90 |    2.20 |    1.00 |
      900 |    6.20 |    4.70 |    3.10 |    0.90 |
     1000 |    6.30 |    4.90 |    3.20 |    1.00 |
     1250 |    4.10 |    3.70 |    2.00 |    0.90 |
     1500 |    4.00 |    3.60 |    1.90 |    0.90 |
     1750 |    3.90 |    3.50 |    1.90 |    0.90 |
     2000 |    3.80 |    3.40 |    1.90 |    0.90 |
     2250 |    4.70 |    3.80 |    2.20 |    1.10 |
     2500 |    3.60 |    3.30 |    1.80 |    0.90 |
     2750 |    4.30 |    3.70 |    2.10 |    1.00 |
     3000 |    5.60 |    4.40 |    2.70 |    1.10 |
     3250 |    4.20 |    3.70 |    2.20 |    1.00 |
     3500 |    4.00 |    3.60 |    2.00 |    1.00 |
     3750 |    4.00 |    3.60 |    2.20 |    1.00 |
     4000 |    3.70 |    3.30 |    2.00 |    1.00 |
     4250 |    4.00 |    3.60 |    2.10 |    1.00 |
     4500 |    4.40 |    3.90 |    2.40 |    1.10 |
     4750 |    5.20 |    4.40 |    2.60 |    1.20 |
     5000 |    4.40 |    3.70 |    2.20 |    1.10 |
     5250 |    3.80 |    3.40 |    1.90 |    0.90 |
     5500 |    3.90 |    3.60 |    2.10 |    1.00 |
     5750 |    3.80 |    3.50 |    2.00 |    1.00 |
     6000 |    5.00 |    4.20 |    2.50 |    1.10 |
     6250 |    3.90 |    3.50 |    2.00 |    1.00 |
     6500 |    3.90 |    3.50 |    2.10 |    1.00 |
     6750 |    4.40 |    3.80 |    2.30 |    1.00 |
     7000 |    3.70 |    3.30 |    1.90 |    0.90 |
     7010 |    3.90 |    3.40 |    2.00 |    1.00 |
     7020 |    4.30 |    3.70 |    2.30 |    1.30 |
     7030 |    3.60 |    3.10 |    1.80 |    0.90 |
     7040 |    3.70 |    3.40 |    2.00 |    1.00 |
     7050 |    3.70 |    3.30 |    1.90 |    1.00 |
     7060 |    3.40 |    3.10 |    1.80 |    0.90 |
     7070 |    3.60 |    3.30 |    1.90 |    0.90 |
     7080 |    4.00 |    3.50 |    2.00 |    1.00 |
     7090 |    4.30 |    3.80 |    2.40 |    1.10 |
     7100 |    3.90 |    3.50 |    1.90 |    0.90 |
     7110 |    3.60 |    3.30 |    1.90 |    0.90 |
     7120 |    3.60 |    3.30 |    1.90 |    0.90 |
     7130 |    3.60 |    3.30 |    1.90 |    0.90 |
     7140 |    3.60 |    3.20 |    1.90 |    0.90 |
     7150 |    3.80 |    3.40 |    1.90 |    0.90 |
     7238 |    3.30 |    3.00 |    1.70 |    0.90 |
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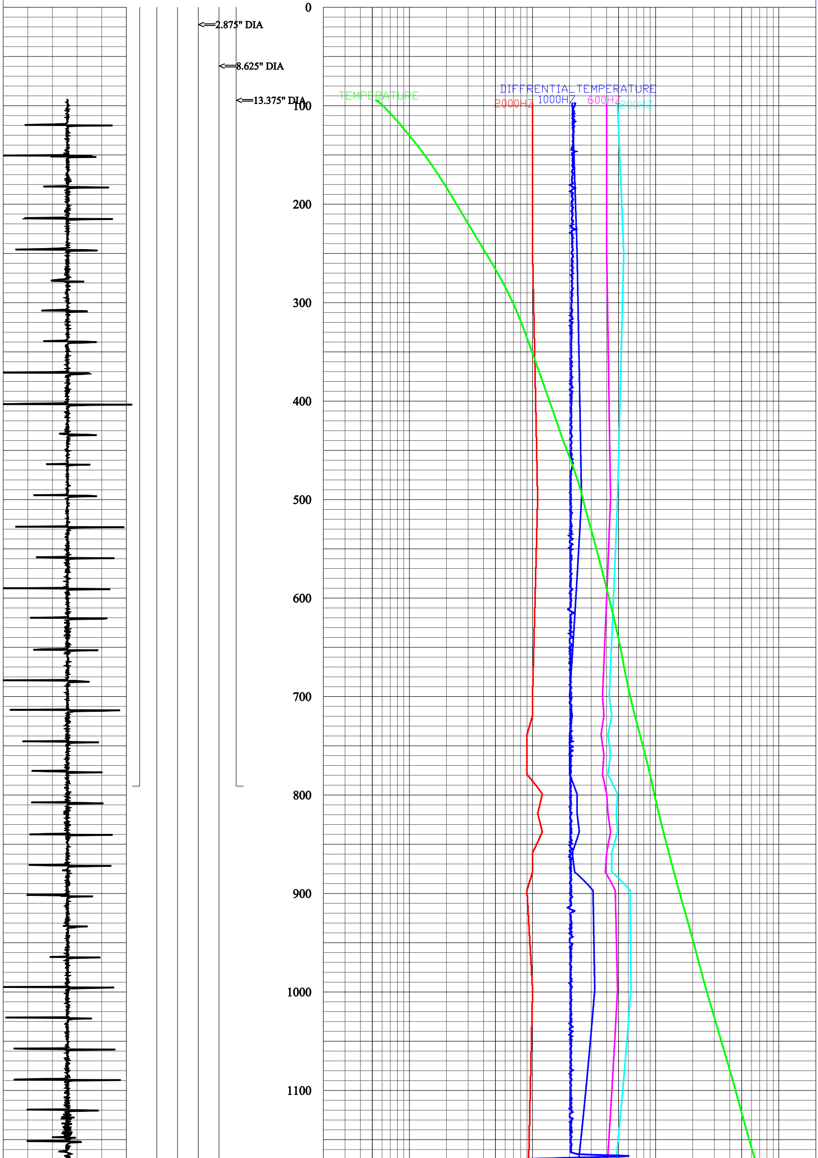
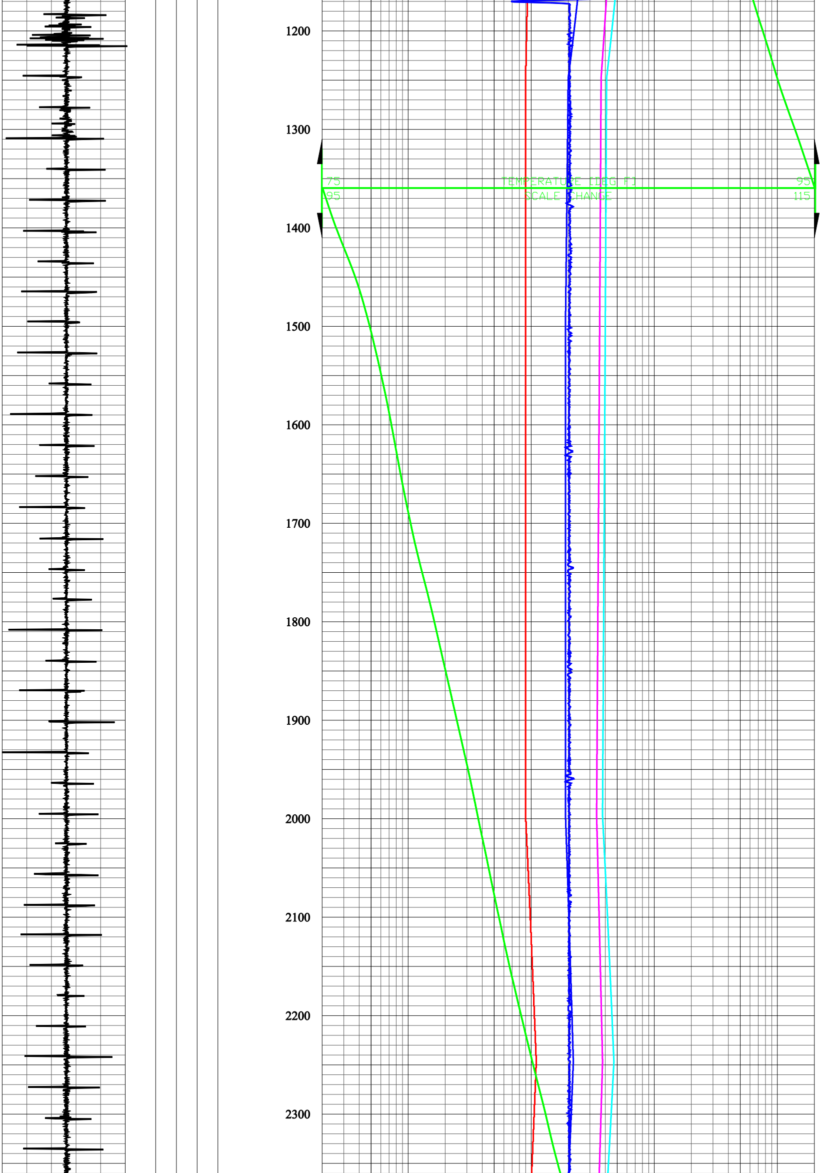
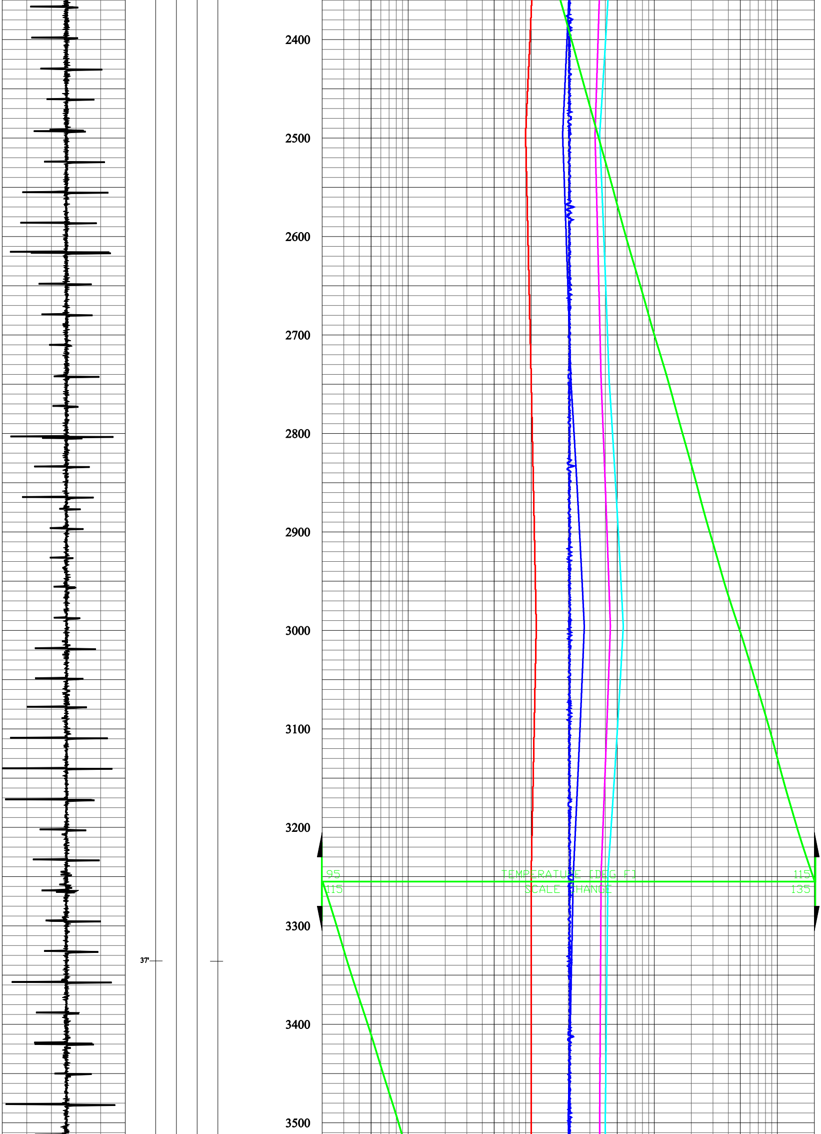
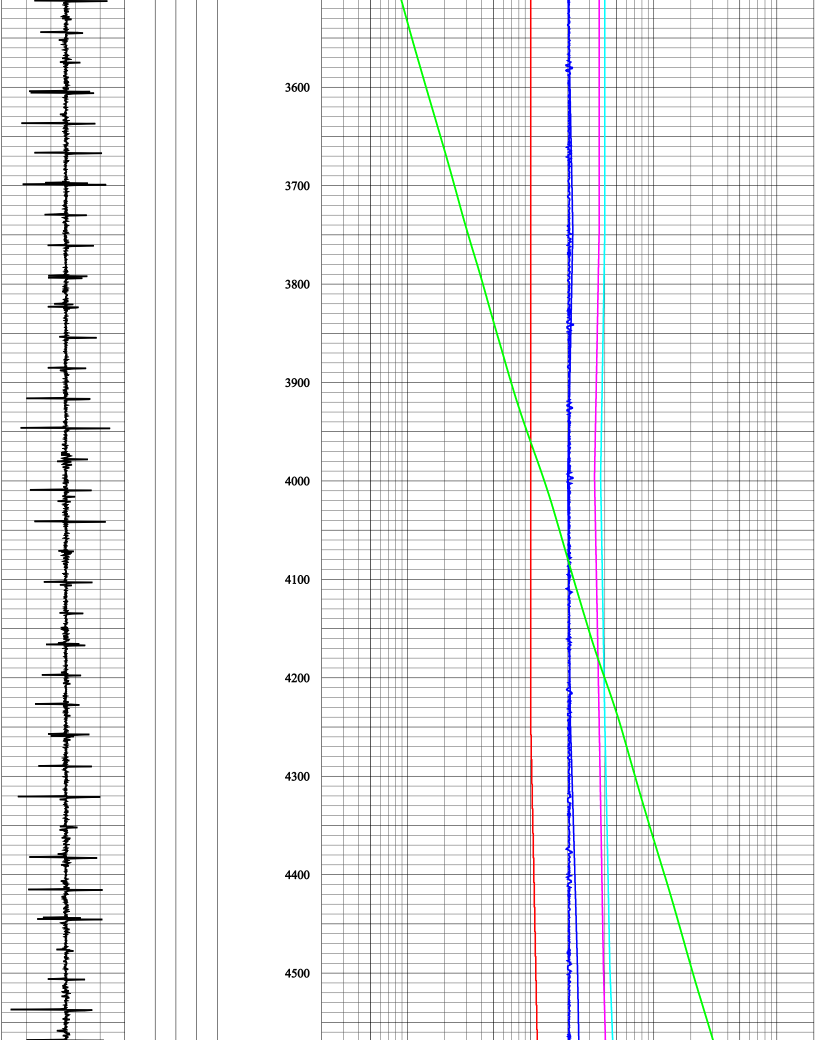
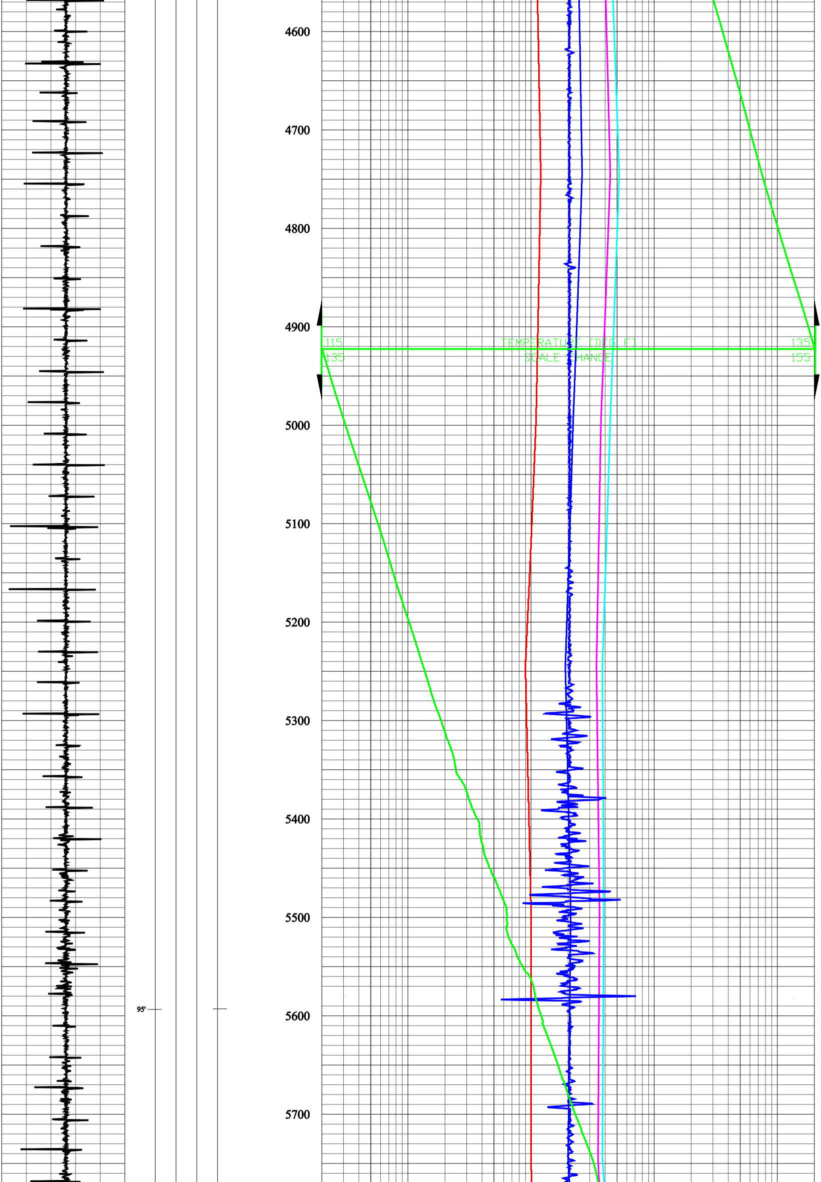
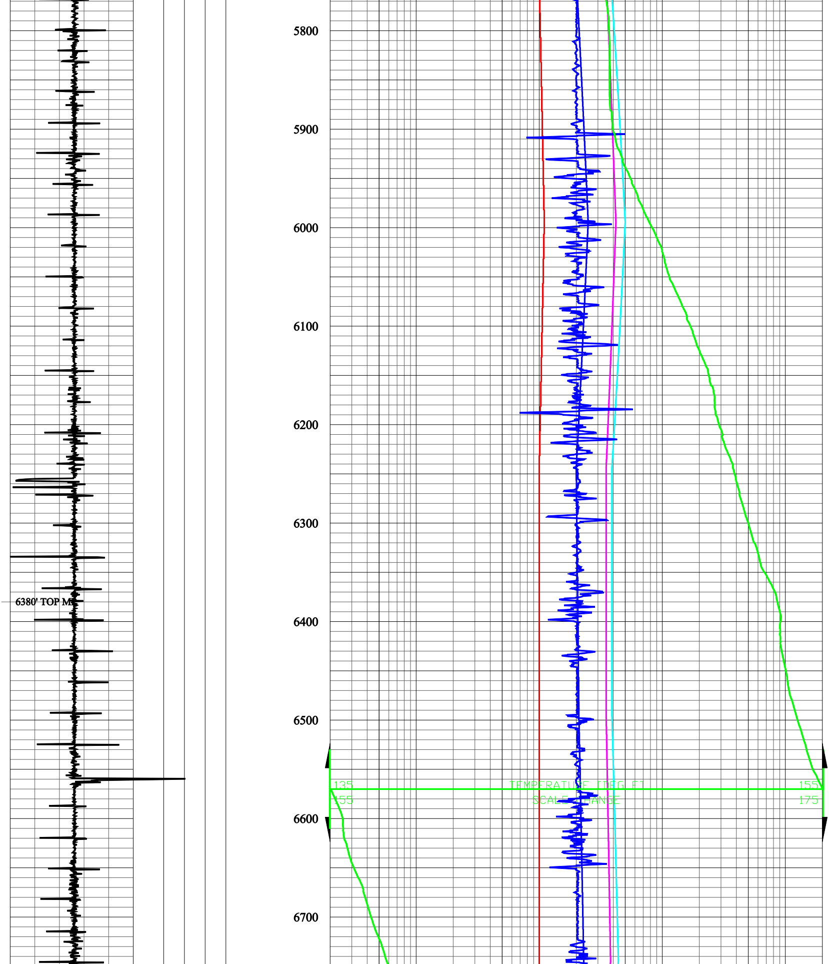
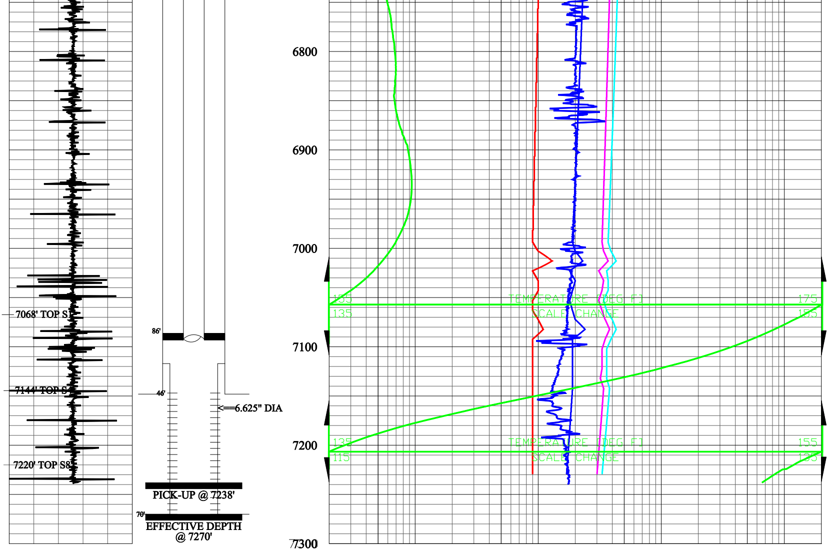
1615 COLLAR LOCATOR [MV] 1915

75 TEMPERATURE [DEG F] 95

0.02 AUDIO DETECTION LOOG [MV] 200

-8 DIFFERENTIAL TEMPERATURE [DEG F] 8