WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

FILING NO.	COMPANY:	SOUTHERN CALIF. GAS CO.	
	WELL:	FERNANDO FEE 35A	
	FIELD:	ALISO CANYON	
	COUNTY:	LOS ANGELES	STATE: CALIFORNIA

LOCATION:

DISTRICT 2

API NUMBER: 0403721457

M.P.

SEC: 34 TWN: 3N RNG: 16W

OTHER SVC:

PERMANENT DATUM: GROUND LEVEL ELEV:

LOG MEASURED FROM KB 15' ABOVE PERM DATUM

DRILLING MEASURED FROM

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

DATE LOG RAN	10-02-2014	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			2500
EFFECTIVE DEPTH	7232'	CASING PSI			2500
PICKUP DEPTH	7214'	INJECTION RATE	N/A		
BOT LOGGED INT	7214'	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	STATIC			PRODUCTION DATA	
MAX TEMPERATURE	143.8 F	OIL Gr.		OIL =	
AT DEPTH	6746.5'	GAS Gr.		GAS=	
TEMPERATURE SENS	1 F/DIV.	MPP		BHP =	
LOGGING SPEED	100 FPM			WATER=	
RECORDED BY	S. MACIAS				
WITNESSED BY	N/A				
ENGINEER	A. KARGAR				
DEPTH CORRELATION	TUBING TAIL				

Equipment Data

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

Remarks/Survey Results

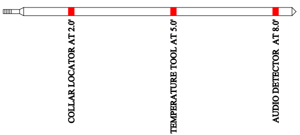
SURVEY INDICATES NO ABOVE NORMAL ACTIVITY.

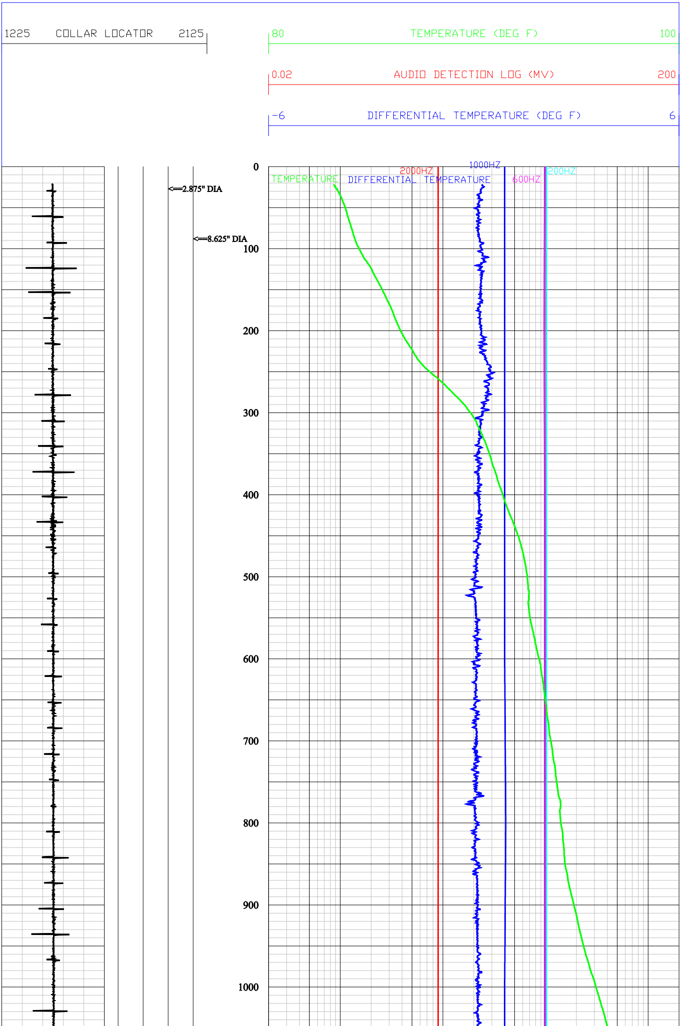
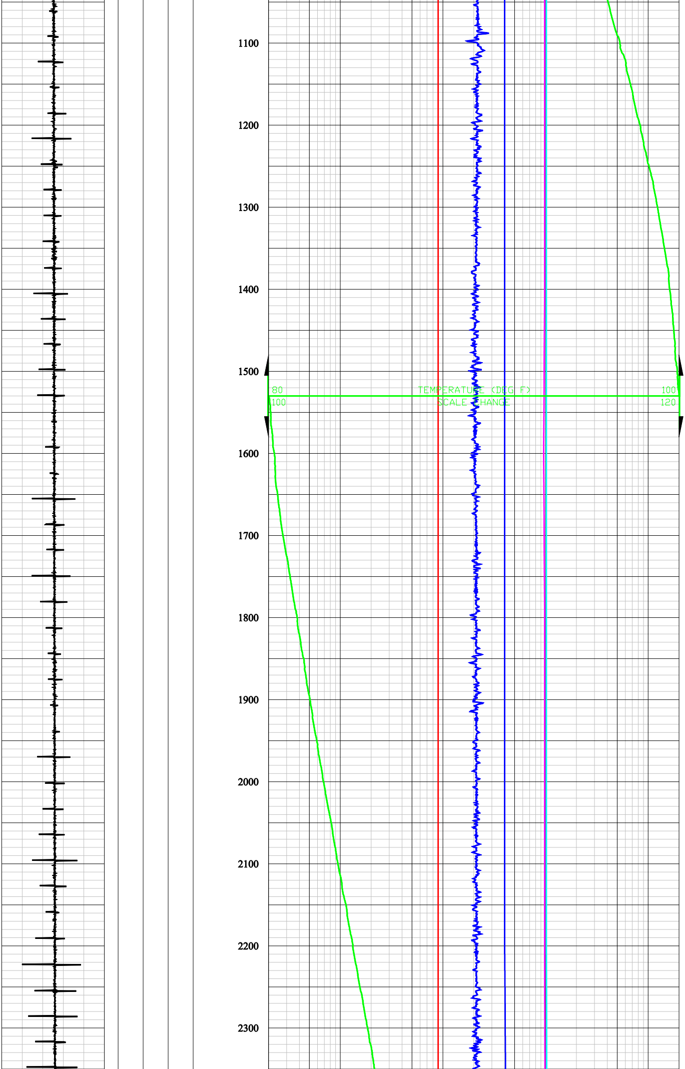
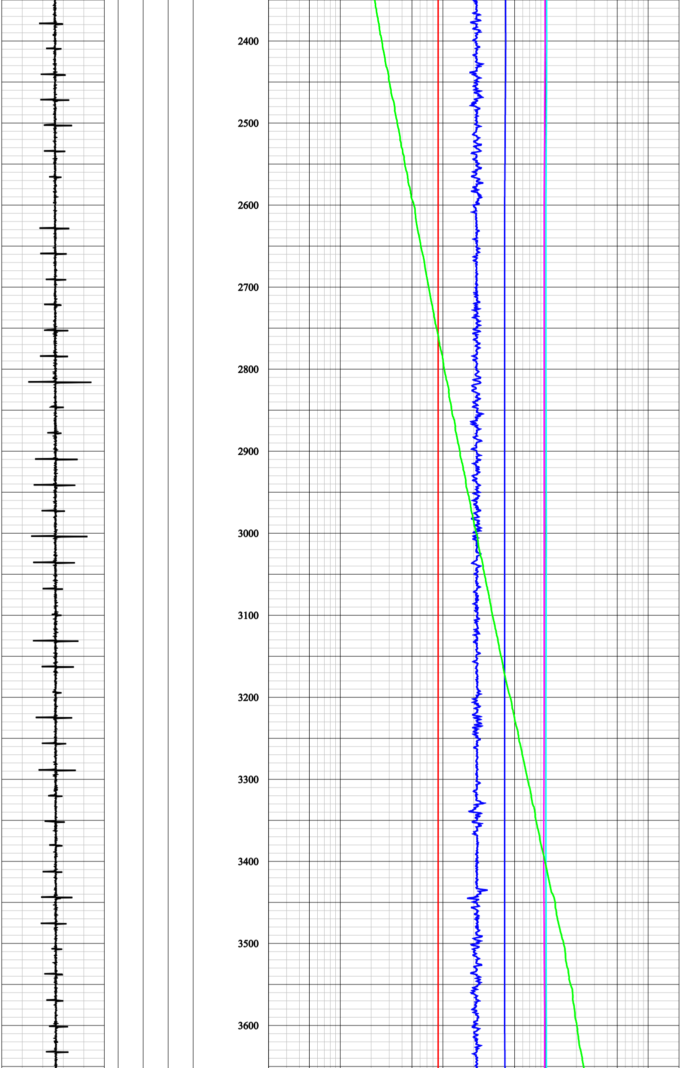
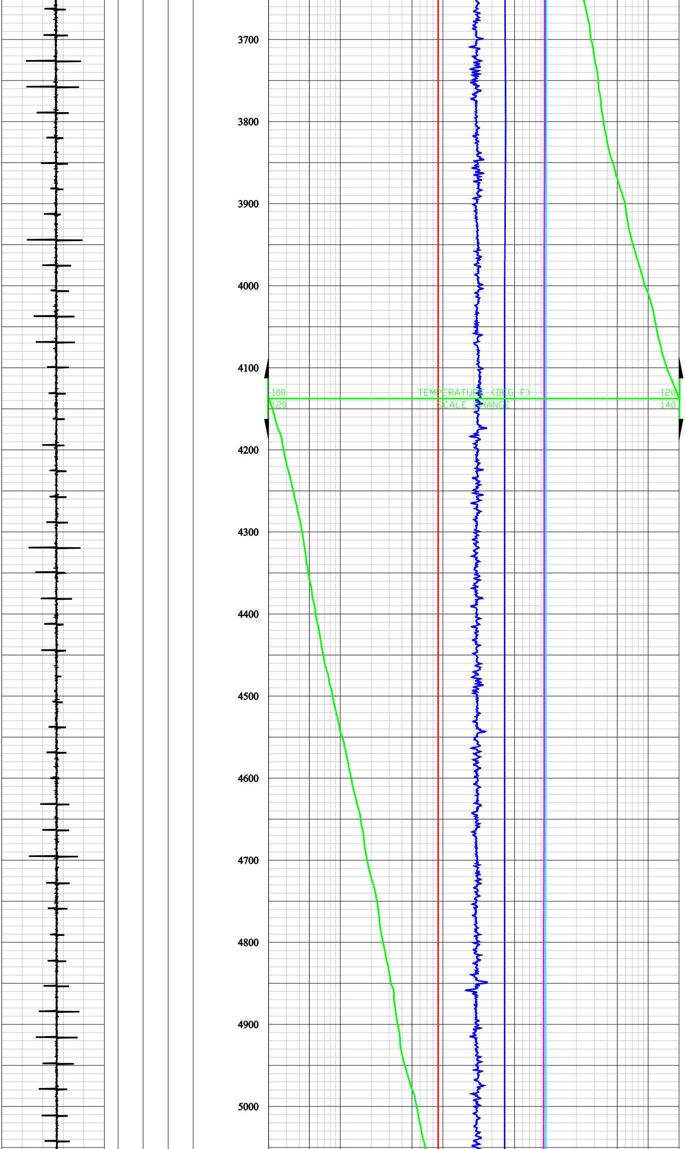
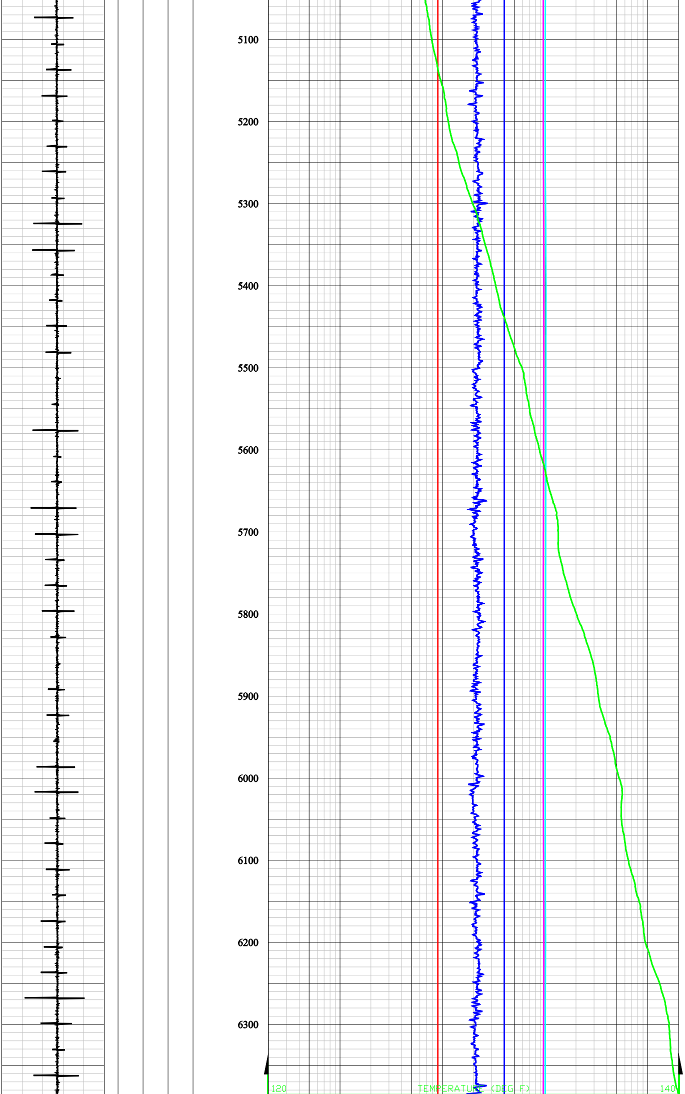
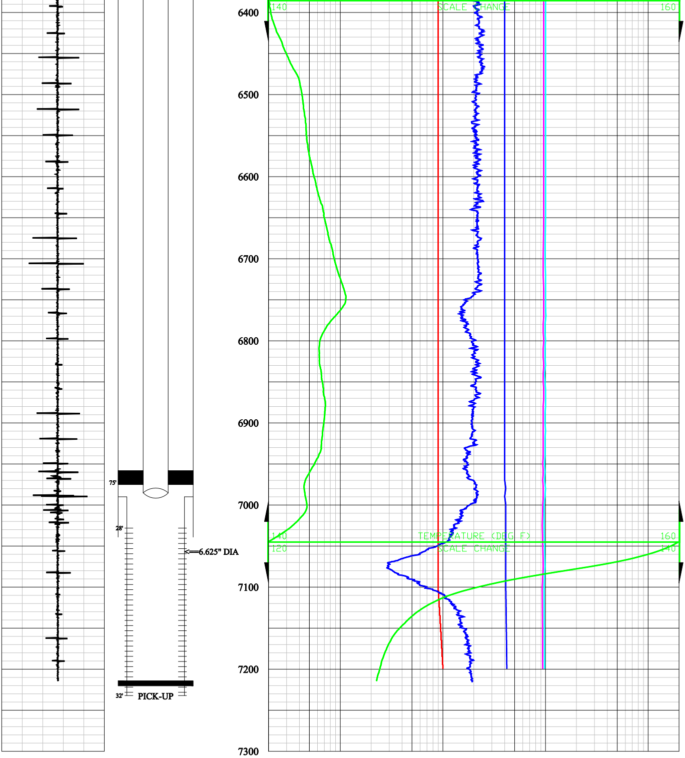
CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
8.625"	36	SURFACE'	7039'				
6.625"	24	6990'	7232'				
2.875"	6.5	SURFACE'	6985'				

STR.	PIPE DIA.	PERFORATIONS
A	6.625"	7028'-7232'.
		PACKERS: 6975'-6958'.
		NO-GO: 6935.5', 6964.6'.

TOOL DIAGRAM



```
      Audio Data:  C:\DATA\NOISE.txt
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    DEPTH |   200HZ |   600HZ |  1000HZ |  2000HZ |
 --------------------------------------------------
        0 |   10.20 |    9.80 |    4.00 |    0.90 |
      200 |   10.20 |    9.70 |    4.00 |    0.90 |
      400 |   10.20 |    9.80 |    4.00 |    0.90 |
      600 |   10.20 |    9.80 |    4.00 |    0.90 |
      800 |   10.20 |    9.80 |    4.10 |    0.90 |
     1000 |   10.20 |    9.80 |    4.00 |    0.90 |
     1200 |   10.20 |    9.80 |    4.00 |    0.90 |
     1400 |   10.20 |    9.80 |    4.00 |    0.90 |
     1600 |   10.20 |    9.60 |    4.00 |    0.90 |
     1800 |   10.20 |    9.80 |    4.00 |    0.90 |
     2000 |   10.20 |    9.80 |    4.00 |    0.90 |
     2200 |   10.20 |    9.80 |    4.00 |    0.90 |
     2400 |   10.30 |    9.90 |    4.10 |    0.90 |
     2600 |   10.10 |    9.70 |    4.00 |    0.90 |
     2800 |   10.10 |    9.70 |    4.00 |    0.90 |
     3000 |   10.20 |    9.70 |    4.00 |    0.90 |
     3200 |   10.10 |    9.70 |    4.00 |    0.90 |
     3400 |   10.10 |    9.60 |    4.00 |    0.90 |
     3600 |   10.20 |    9.80 |    4.00 |    0.90 |
     3800 |   10.20 |    9.80 |    4.10 |    0.90 |
     4000 |   10.10 |    9.70 |    4.00 |    0.90 |
     4200 |   10.10 |    9.70 |    4.00 |    0.90 |
     4400 |   10.10 |    9.70 |    4.00 |    0.90 |
     4600 |   10.10 |    9.70 |    4.00 |    0.90 |
     4800 |   10.00 |    9.60 |    4.00 |    0.90 |
     5000 |   10.10 |    9.60 |    4.00 |    0.90 |
     5200 |   10.00 |    9.60 |    4.00 |    0.90 |
     5400 |   10.20 |    9.70 |    4.00 |    0.90 |
     5800 |   10.10 |    9.60 |    4.00 |    0.90 |
     6000 |   10.00 |    9.60 |    4.00 |    0.90 |
     6200 |   10.10 |    9.70 |    4.00 |    0.90 |
     6400 |   10.00 |    9.60 |    4.00 |    0.90 |
     6600 |   10.00 |    9.60 |    4.00 |    0.90 |
     6650 |   10.00 |    9.60 |    4.00 |    0.90 |
     6700 |    9.90 |    9.50 |    4.00 |    0.90 |
     6720 |   10.00 |    9.50 |    4.00 |    0.90 |
     6740 |   10.00 |    9.60 |    4.00 |    0.90 |
     6750 |   10.00 |    9.60 |    4.00 |    0.90 |
     6760 |   10.00 |    9.60 |    4.00 |    0.90 |
     6770 |   10.10 |    9.60 |    4.00 |    0.90 |
     6780 |    9.90 |    9.50 |    4.00 |    0.90 |
     6790 |    9.90 |    9.50 |    4.00 |    0.90 |
     6800 |   10.00 |    9.60 |    4.00 |    0.90 |
     6810 |    9.90 |    9.50 |    4.00 |    0.90 |
     6820 |    9.90 |    9.50 |    4.00 |    0.90 |
     6830 |   10.00 |    9.60 |    4.00 |    0.90 |
     6840 |    9.80 |    9.50 |    4.00 |    0.90 |
     6850 |    9.90 |    9.50 |    4.00 |    0.90 |
     6860 |   10.00 |    9.60 |    4.00 |    0.90 |
     6870 |   10.00 |    9.60 |    4.00 |    0.90 |
     6880 |   10.00 |    9.50 |    4.00 |    0.90 |
     6890 |    9.90 |    9.50 |    4.00 |    0.90 |
     6900 |    9.90 |    9.50 |    4.00 |    0.90 |
     6910 |   10.00 |    9.50 |    4.00 |    0.90 |
     6920 |    9.90 |    9.50 |    4.00 |    0.90 |
     6930 |    9.90 |    9.50 |    4.00 |    0.90 |
     6940 |    9.90 |    9.50 |    4.00 |    0.90 |
     6950 |    9.80 |    9.40 |    4.00 |    0.90 |
     6960 |    9.90 |    9.50 |    4.00 |    0.90 |
     6970 |    9.80 |    9.40 |    4.00 |    0.90 |
     6980 |   10.00 |    9.50 |    4.10 |    0.90 |
     6990 |    9.90 |    9.50 |    4.00 |    0.90 |
     7000 |    9.70 |    9.40 |    4.10 |    0.90 |
     7025 |    9.70 |    9.30 |    4.10 |    0.90 |
     7050 |    9.80 |    9.40 |    4.10 |    0.90 |
     7075 |    9.90 |    9.50 |    4.10 |    0.90 |
     7100 |    9.70 |    9.30 |    4.10 |    0.90 |
     7200 |    9.80 |    9.40 |    4.20 |    1.00 |
```