WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE
GS
BFW

COMPANY: SOUTHERN CALIF. GAS CO.
WELL: PORTER 45
FIELD: ALISO CANYON
COUNTY: LOS ANGELES
STATE: CALIFORNIA

LOCATION:
DISTRICT 2

API NUMBER: 0403700732
SEC: 27 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	03-29-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1110
EFFECTIVE DEPTH	7600' [PLUG]	CASING PSI			1110
PICKUP DEPTH	7530'	INJECTION RATE	N|A		
BOT LOGGED INT	7530'	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	171.7 F.	OIL Gr.	N|A	OIL =	N|A
AT DEPTH	7104.5'	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	D.PROKUSKI				
WITNESSED BY	N|A				
EMAIL TO	A.KARGAR				
DEPTH CORRELATION	PACKER				

Equipment Data

Collar Locator ■ 1.375"		
Temperature Tool 🟩 1.375"		
Audio Detector 🟥 1.375"		

Remarks/Survey Results

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11:25AM - ON LOCATION
11:30AM - RAN IN HOLE
11:40AM - BEGIN SURVEY
03:00PM - PULL OUT OF HOLE
03:15PM - OFF LOCATION

SAND TAG MARKERS: 7402' TOP S4
                  7515' TOP S8
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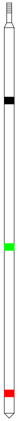
CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
10.375"	40.5	SURFACE	505'				
7.000"	23	SURFACE	7648'				
5.500"	19.81	SURFACE	7350'				
2.375"	4.7	SURFACE	7322'				

STR.	PIPE DIA.	PERFORATIONS
A	7.000"	WS□: 7383', WS□: 7390', 7402'-7428', WS□: 7444,
		7446'-7464', 7468'-7474', 7490'-7500',
		7510'-7511', 7516'-7595'.
		PACKERS: 7320'-7322', 7350'-7355'.
		GAS LIFT MANDRELS: 7209'-7214'.
		SLIDING SLEEVES: 7252'-7257'.
		NO-GO: 7286'.

TOOL DIAGRAM



COLLAR LOCATOR AT 2.0'

TEMPERATURE TOOL AT 5.0'

AUDIO DETECTOR AT 8.0'

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    Audio Data:  C:\data\NOISE.txt
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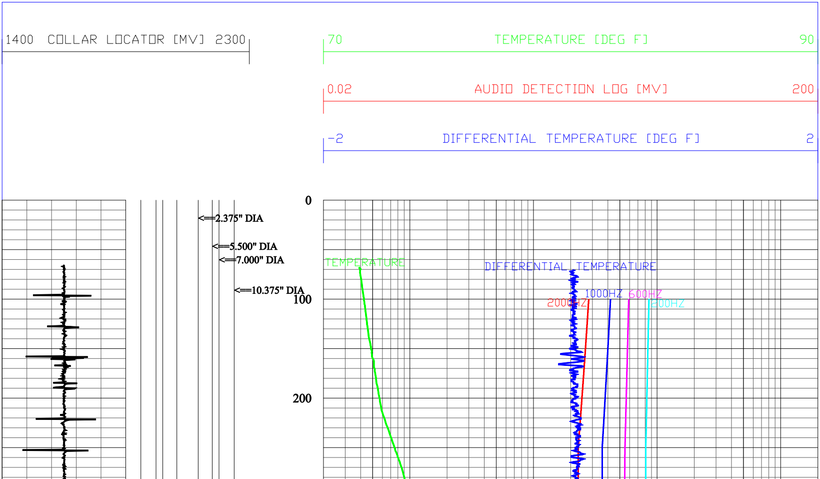
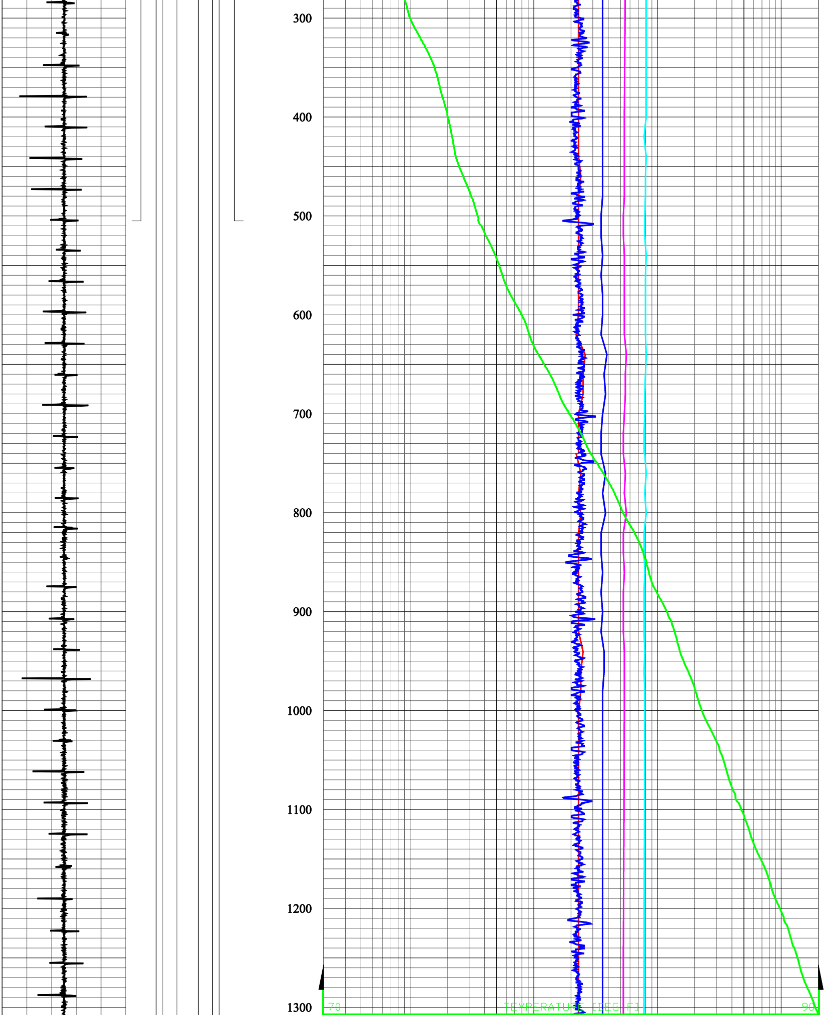
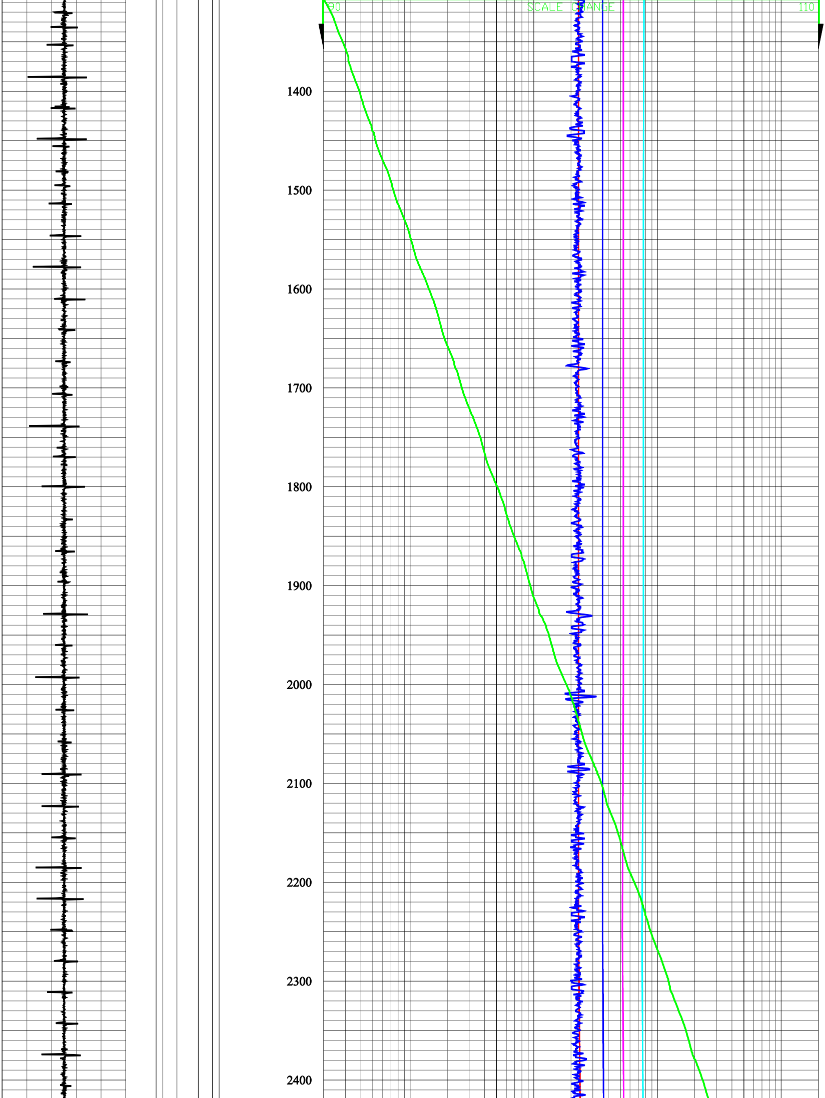
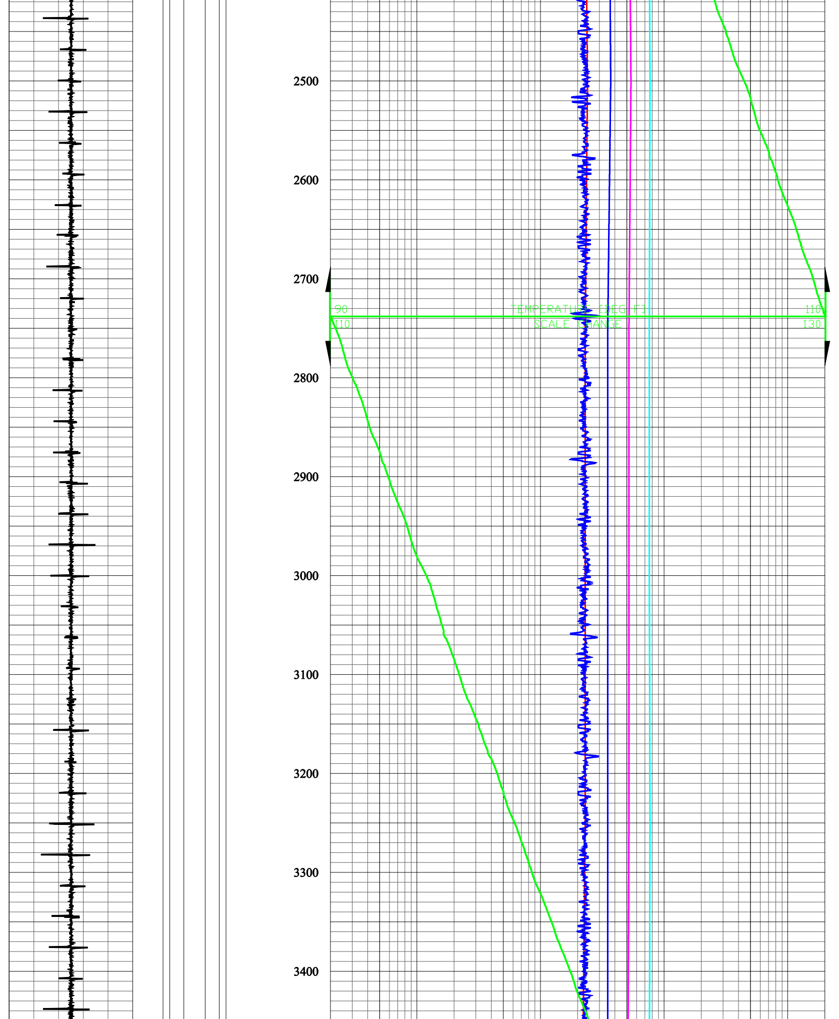
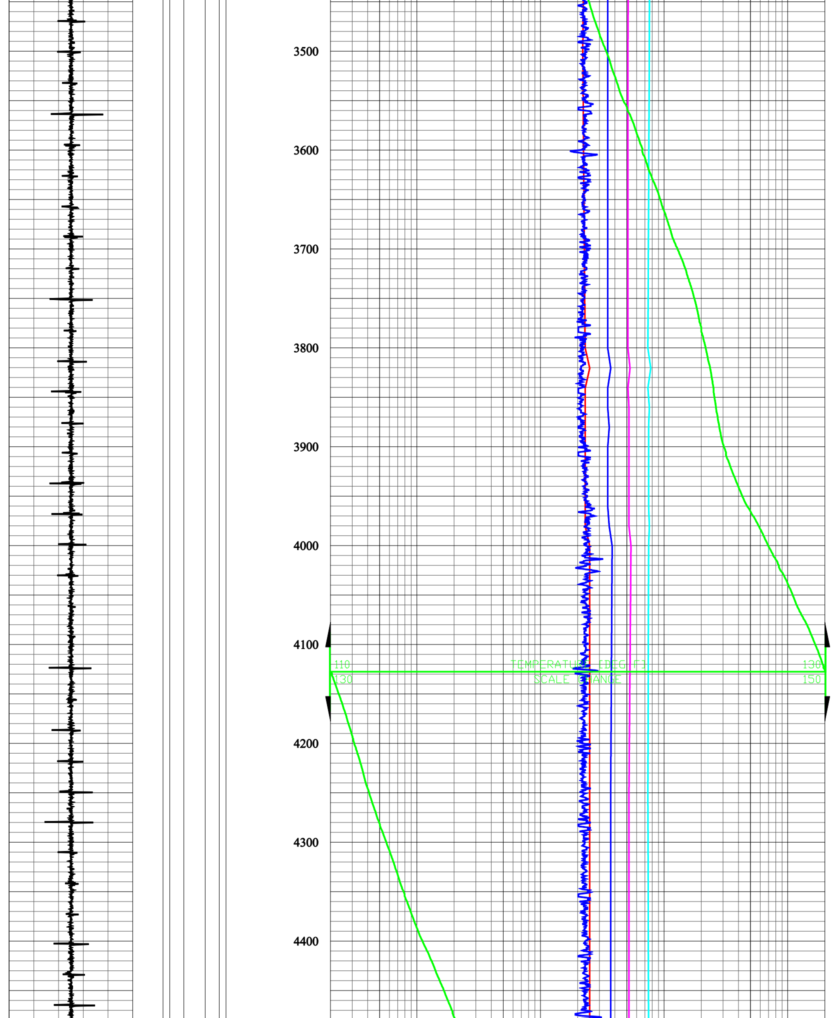
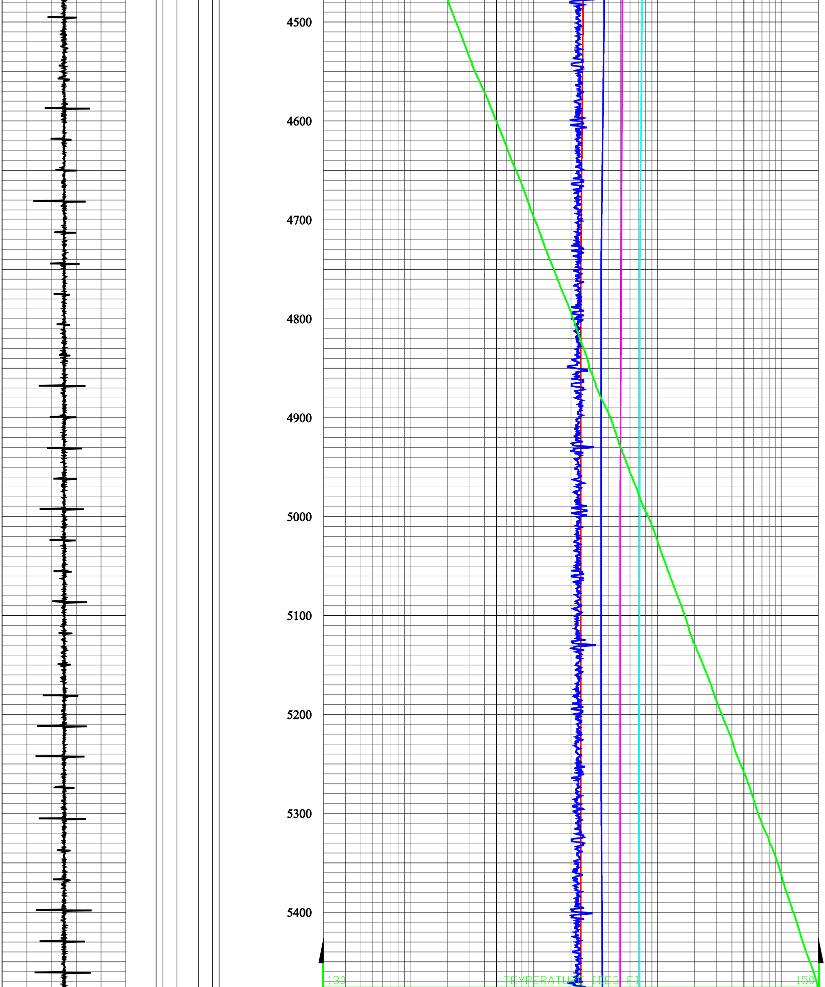
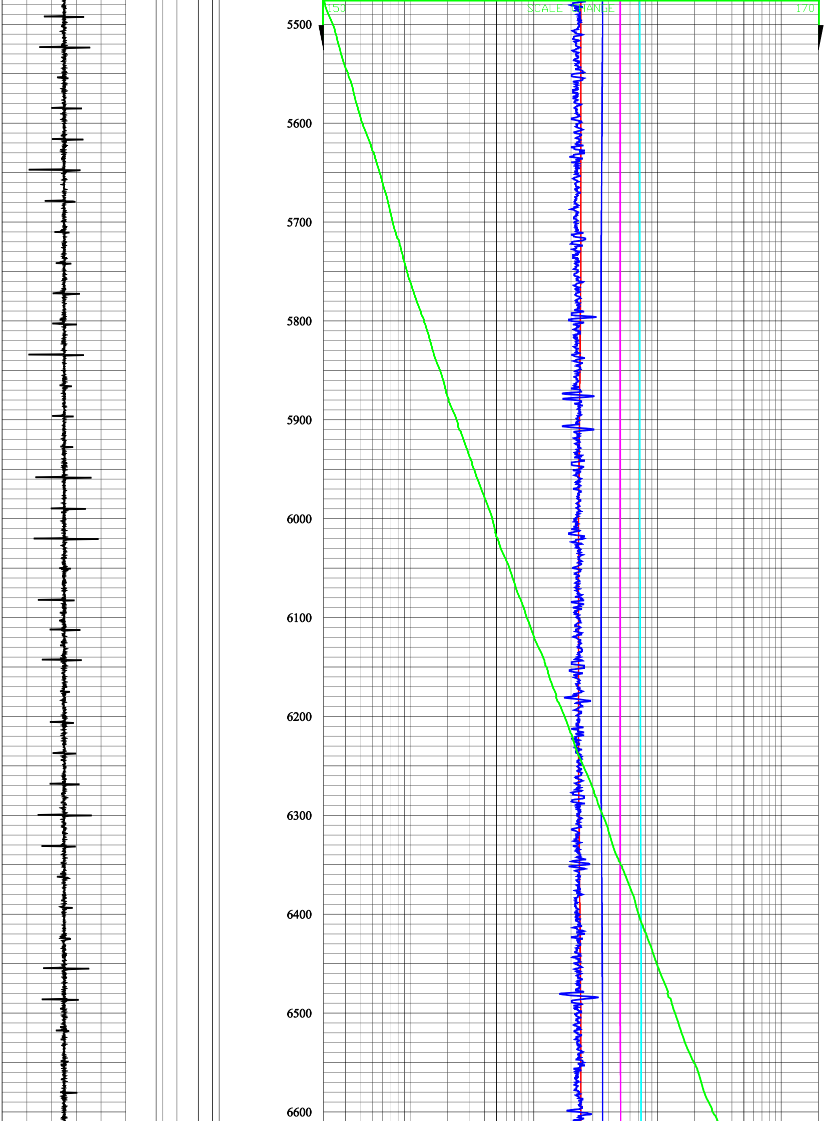
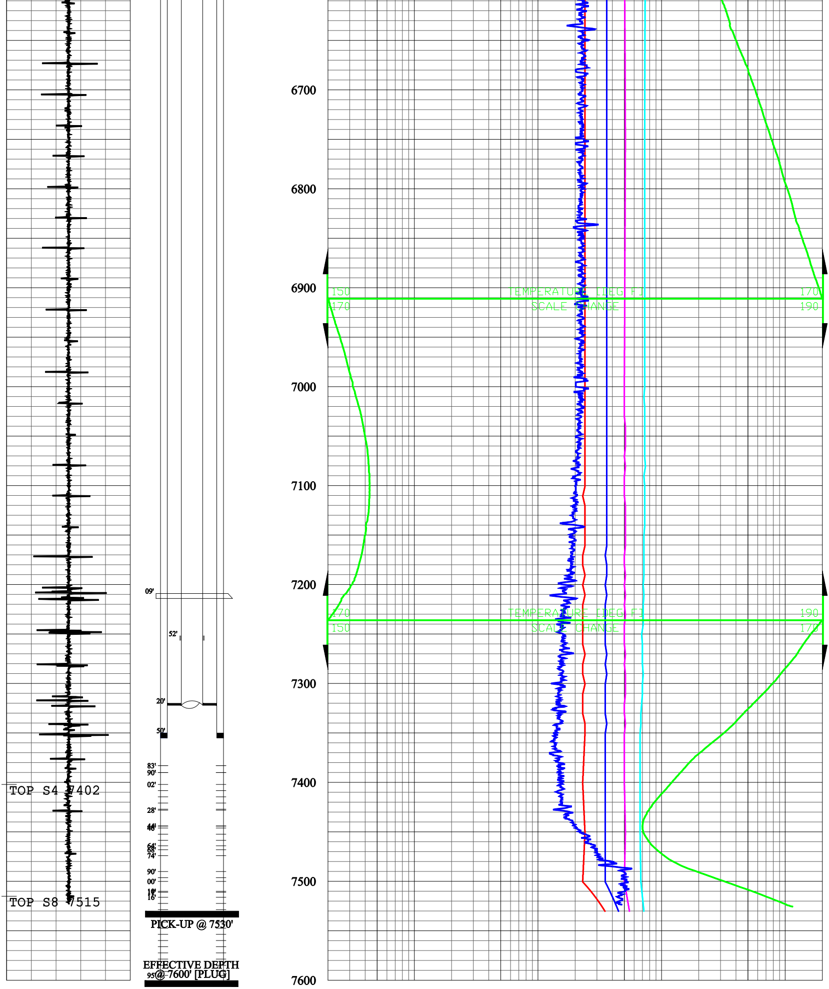
   DEPTH |   200HZ |   600HZ |  1000HZ |  2000HZ |
---------------------------------------------------
     100 |    8.60 |    5.90 |    4.20 |    2.80 |
     250 |    8.10 |    5.50 |    3.60 |    2.30 |
     400 |    8.10 |    5.40 |    3.60 |    2.30 |
     420 |    7.80 |    5.40 |    3.60 |    2.30 |
     440 |    8.10 |    5.40 |    3.60 |    2.30 |
     460 |    8.00 |    5.40 |    3.60 |    2.40 |
     480 |    8.00 |    5.40 |    3.60 |    2.30 |
     500 |    7.90 |    5.30 |    3.50 |    2.30 |
     520 |    7.90 |    5.30 |    3.50 |    2.30 |
     540 |    8.10 |    5.40 |    3.60 |    2.30 |
     560 |    8.00 |    5.40 |    3.50 |    2.30 |
     580 |    8.00 |    5.40 |    3.60 |    2.30 |
     600 |    8.00 |    5.40 |    3.60 |    2.30 |
     620 |    8.00 |    5.40 |    3.50 |    2.20 |
     640 |    8.10 |    5.60 |    3.90 |    2.60 |
     660 |    8.00 |    5.50 |    3.70 |    2.50 |
     680 |    7.90 |    5.50 |    3.80 |    2.50 |
     700 |    7.90 |    5.40 |    3.60 |    2.30 |
     720 |    7.80 |    5.30 |    3.50 |    2.30 |
     740 |    7.80 |    5.30 |    3.50 |    2.30 |
     740 |    7.90 |    5.30 |    3.50 |    2.20 |
     760 |    8.10 |    5.50 |    3.80 |    2.40 |
     780 |    7.90 |    5.40 |    3.60 |    2.30 |
     800 |    8.10 |    5.60 |    3.80 |    2.40 |
     820 |    7.80 |    5.30 |    3.50 |    2.30 |
     840 |    7.80 |    5.30 |    3.50 |    2.30 |
     860 |    7.90 |    5.40 |    3.60 |    2.30 |
     880 |    7.80 |    5.30 |    3.50 |    2.30 |
     900 |    7.80 |    5.30 |    3.60 |    2.30 |
     920 |    7.80 |    5.30 |    3.50 |    2.30 |
     940 |    7.90 |    5.40 |    3.70 |    2.50 |
     960 |    7.80 |    5.40 |    3.70 |    2.40 |
     980 |    7.90 |    5.40 |    3.60 |    2.40 |
    1000 |    7.90 |    5.40 |    3.60 |    2.30 |
    1250 |    7.80 |    5.30 |    3.60 |    2.30 |
    1500 |    7.70 |    5.30 |    3.60 |    2.30 |
    1750 |    7.70 |    5.30 |    3.60 |    2.30 |
    2000 |    7.70 |    5.30 |    3.60 |    2.30 |
    2250 |    7.50 |    5.20 |    3.60 |    2.30 |
    2500 |    7.70 |    5.40 |    3.70 |    2.40 |
    2750 |    7.60 |    5.20 |    3.50 |    2.30 |
    3000 |    7.60 |    5.20 |    3.50 |    2.30 |
    3250 |    7.70 |    5.20 |    3.50 |    2.30 |
    3500 |    7.60 |    5.10 |    3.50 |    2.20 |
    3800 |    7.40 |    5.10 |    3.50 |    2.30 |
    3820 |    7.80 |    5.30 |    3.70 |    2.50 |
    3840 |    7.40 |    5.10 |    3.50 |    2.30 |
    3860 |    7.60 |    5.20 |    3.50 |    2.30 |
    3880 |    7.50 |    5.20 |    3.60 |    2.30 |
    3900 |    7.50 |    5.20 |    3.50 |    2.30 |
    3920 |    7.50 |    5.20 |    3.50 |    2.30 |
    3940 |    7.50 |    5.20 |    3.50 |    2.30 |
    3960 |    7.50 |    5.20 |    3.50 |    2.30 |
    3980 |    7.60 |    5.20 |    3.60 |    2.30 |
    4000 |    7.50 |    5.40 |    3.80 |    2.50 |
    4250 |    7.40 |    5.20 |    3.70 |    2.50 |
    4500 |    7.50 |    5.20 |    3.70 |    2.50 |
    4750 |    7.20 |    5.10 |    3.50 |    2.40 |
    5000 |    7.20 |    5.00 |    3.50 |    2.40 |
    5250 |    7.10 |    5.00 |    3.50 |    2.40 |
    5500 |    7.20 |    5.00 |    3.60 |    2.40 |
    5750 |    7.20 |    5.00 |    3.50 |    2.40 |
    6000 |    7.20 |    5.00 |    3.50 |    2.30 |
    6250 |    7.30 |    5.00 |    3.50 |    2.30 |
    6500 |    7.40 |    5.00 |    3.60 |    2.40 |
    6750 |    7.30 |    5.10 |    3.60 |    2.40 |
    7000 |    7.30 |    5.00 |    3.60 |    2.40 |
    7010 |    7.20 |    5.00 |    3.60 |    2.40 |
    7020 |    7.30 |    5.00 |    3.60 |    2.40 |
    7030 |    7.30 |    5.00 |    3.60 |    2.40 |
    7040 |    7.30 |    5.10 |    3.60 |    2.40 |
    7050 |    7.30 |    5.10 |    3.60 |    2.40 |
```

7060	7.30	5.10	3.60	2.40
7070	7.30	5.00	3.60	2.40
7080	7.40	5.10	3.60	2.40
7090	7.20	5.00	3.60	2.40
7100	7.30	5.00	3.60	2.40
7110	7.30	5.00	3.60	2.30
7120	7.30	5.10	3.60	2.40
7130	7.30	5.10	3.60	2.40
7140	7.30	5.10	3.60	2.40
7150	7.20	5.10	3.60	2.40
7160	7.20	5.10	3.60	2.40
7170	7.20	5.00	3.50	2.30
7180	7.20	5.00	3.60	2.30
7190	7.20	5.10	3.60	2.40
7200	7.10	5.00	3.50	2.30
7210	7.20	5.10	3.60	2.40
7220	7.10	5.00	3.50	2.30
7230	7.10	5.10	3.50	2.30
7240	7.10	5.00	3.50	2.30
7250	6.90	5.00	3.50	2.30
7260	7.00	5.00	3.50	2.30
7270	7.00	5.10	3.60	2.40
7280	7.00	5.00	3.50	2.30
7290	7.10	5.10	3.60	2.30
7300	7.00	5.10	3.50	2.40
7310	7.00	5.10	3.50	2.30
7320	6.90	5.00	3.50	2.30
7330	6.80	5.00	3.50	2.30
7340	6.80	5.10	3.60	2.40
7350	6.70	5.00	3.50	2.40
7400	6.70	5.00	3.50	2.30
7450	6.70	5.10	3.50	2.40
7500	6.80	5.00	3.50	2.30
7530	7.20	5.50	4.50	3.50


1400 COLLAR LOCATOR [MV] 2300
70 TEMPERATURE [DEG F] 90
0.02 AUDIO DETECTION LOG [MV] 200
-2 DIFFERENTIAL TEMPERATURE [DEG F] 2
0
100
200
<==2.375" DIA
<==5.500" DIA
<==7.000" DIA
<==10.375" DIA
TEMPERATURE
DIFFERENTIAL TEMPERATURE
2000HZ
1000HZ
600HZ
200HZ