WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE GS, OG BFW	COMPANY: SOUTHERN CALIF. GAS CO. WELL: STANDARD SESNON 44B FIELD: ALISO CANYON COUNTY: LOS ANGELES STATE: CALIFORNIA

LOCATION:
DISTRICT 2

API NUMBER: 0403721361
SEC: 28 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	04-14-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1342
EFFECTIVE DEPTH	8980'	CASING PSI			1342
PICKUP DEPTH	8676'	INJECTION RATE	N|A		
BOT LOGGED INT	8676'	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	174.6 F	OIL Gr.	N|A	OIL =	N|A
AT DEPTH	8676.0'	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	LINER TOP				

Equipment Data

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

Remarks/Survey Results

07:00AM - ON LOCATION
07:15AM - RAN IN HOLE
07:30AM - BEGIN SURVEY
10:45AM - PULL OUT OF HOLE
11:00AM - OFF LOCATION

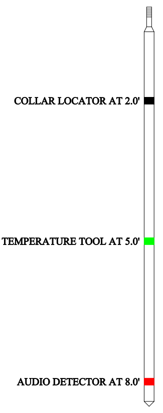
SAND TAG MARKERS: 8305' TOP S1
8400' TOP S4
8495' TOP S8
8633' TOP HZ
8893' FREW

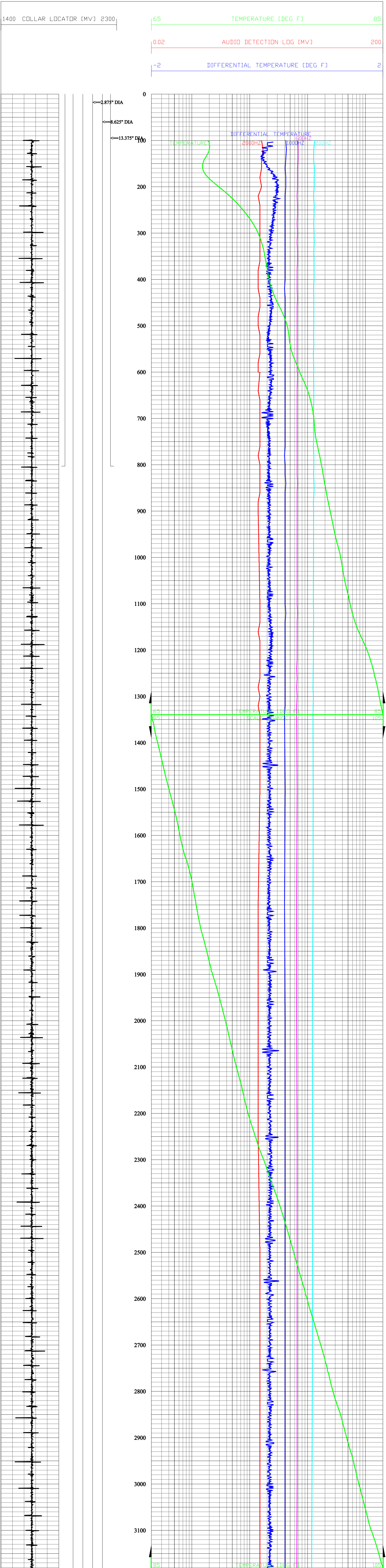
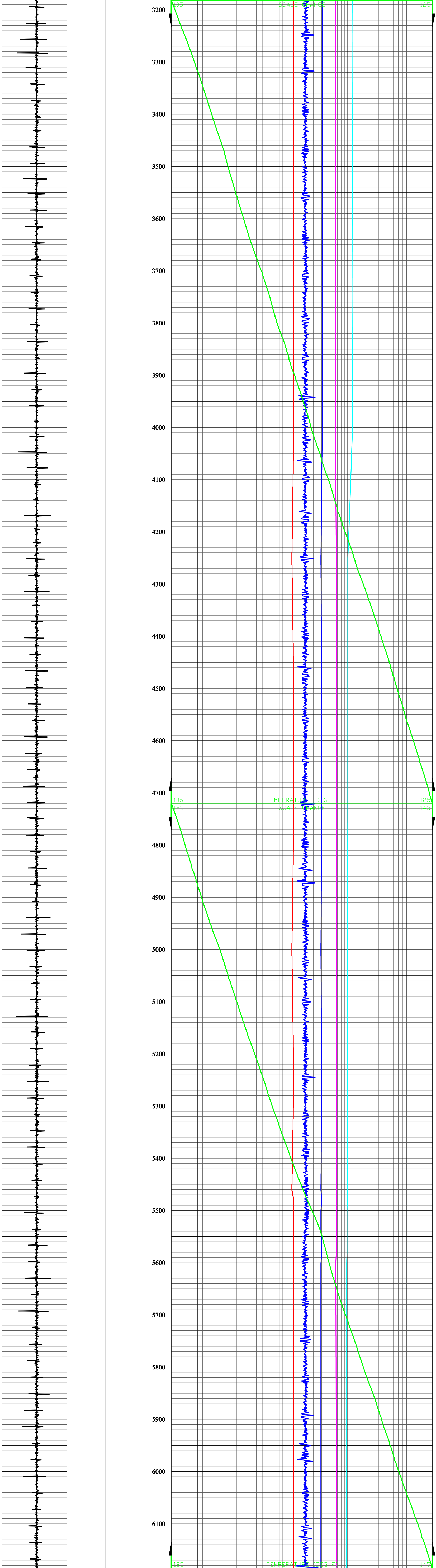
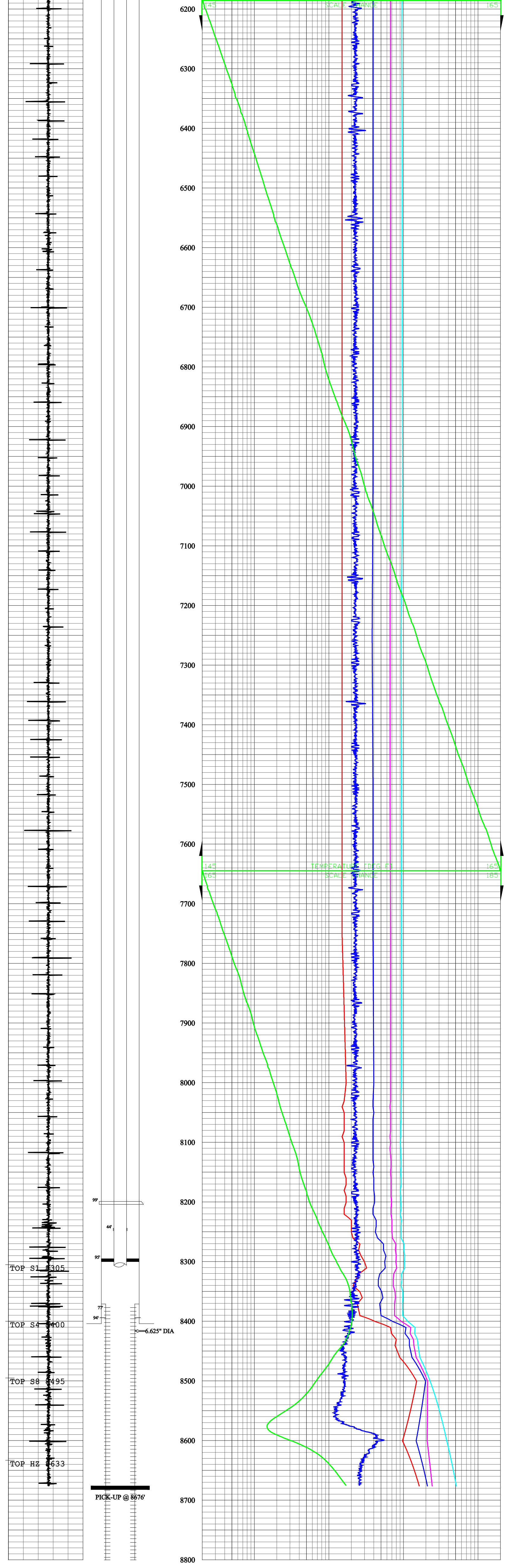
CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	803'				
8.625"	36.0	SURFACE	8404'				
6.625"	24.0	8371'	8980'				
2.875"	6.50	SURFACE	8306'				

STR.	PIPE DIA.	PERFORATIONS
A	8.625"	WSD: 8394'.
	6.625"	8377'-8980'.
		PACKERS: 8295'.
		GAS LIFT MANDRELS: 8199'.
		SLIDING SLEEVES: 8244'.
		NO-GO: 8284'.

TOOL DIAGRAM


COLLAR LOCATOR AT 2.0'
TEMPERATURE TOOL AT 5.0'
AUDIO DETECTOR AT 8.0'

```
     Audio Data:  C:\data\NOISE.txt
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    DEPTH |   200HZ |   600HZ |  1000HZ |  2000HZ |
 ---------------------------------------------
      100 |   13.20 |    6.70 |    4.20 |    1.60 |
      120 |   12.80 |    6.80 |    4.30 |    1.70 |
      140 |   12.70 |    6.80 |    4.20 |    1.60 |
      160 |   13.10 |    6.70 |    4.10 |    1.60 |
      180 |   13.00 |    6.70 |    4.20 |    1.50 |
      200 |   13.00 |    6.70 |    4.20 |    1.60 |
      220 |   12.70 |    6.60 |    4.10 |    1.40 |
      240 |   13.00 |    6.70 |    4.10 |    1.50 |
      260 |   12.90 |    6.70 |    4.10 |    1.50 |
      280 |   12.80 |    6.60 |    4.10 |    1.50 |
      300 |   12.90 |    6.70 |    4.10 |    1.50 |
      320 |   13.00 |    6.60 |    4.10 |    1.50 |
      340 |   12.80 |    6.70 |    4.10 |    1.50 |
      360 |   12.90 |    6.70 |    4.10 |    1.50 |
      380 |   12.90 |    6.60 |    4.10 |    1.40 |
      400 |   12.90 |    6.60 |    4.10 |    1.40 |
      420 |   12.70 |    6.60 |    4.00 |    1.50 |
      440 |   12.80 |    6.70 |    4.10 |    1.50 |
      460 |   12.80 |    6.60 |    4.10 |    1.50 |
      480 |   12.80 |    6.60 |    4.10 |    1.40 |
      500 |   12.80 |    6.60 |    4.10 |    1.40 |
      520 |   12.70 |    6.60 |    4.10 |    1.50 |
      540 |   12.80 |    6.60 |    4.10 |    1.50 |
      560 |   12.60 |    6.60 |    4.10 |    1.50 |
      580 |   12.70 |    6.60 |    4.10 |    1.40 |
      600 |   12.80 |    6.60 |    4.10 |    1.40 |
      600 |   12.70 |    6.70 |    4.10 |    1.50 |
      640 |   12.80 |    6.60 |    4.10 |    1.40 |
      660 |   12.80 |    6.60 |    4.10 |    1.50 |
      680 |   12.60 |    6.60 |    4.10 |    1.50 |
      700 |   12.70 |    6.60 |    4.10 |    1.50 |
      720 |   12.60 |    6.60 |    4.10 |    1.50 |
      740 |   12.80 |    6.60 |    4.10 |    1.50 |
      760 |   12.60 |    6.60 |    4.10 |    1.50 |
      780 |   12.80 |    6.60 |    4.00 |    1.40 |
      800 |   12.80 |    6.60 |    4.10 |    1.50 |
      820 |   12.70 |    6.60 |    4.10 |    1.50 |
      840 |   12.90 |    6.70 |    4.20 |    1.50 |
      860 |   12.90 |    6.60 |    4.10 |    1.50 |
      880 |   12.60 |    6.60 |    4.10 |    1.40 |
      900 |   12.70 |    6.60 |    4.10 |    1.40 |
     1100 |   12.60 |    6.60 |    4.10 |    1.50 |
     1120 |   12.70 |    6.70 |    4.20 |    1.50 |
     1140 |   12.70 |    6.60 |    4.10 |    1.50 |
     1160 |   12.60 |    6.60 |    4.10 |    1.40 |
     1180 |   12.60 |    6.60 |    4.10 |    1.50 |
     1200 |   12.60 |    6.60 |    4.10 |    1.50 |
     1220 |   12.60 |    6.60 |    4.10 |    1.50 |
     1240 |   12.50 |    6.50 |    4.10 |    1.50 |
     1260 |   12.50 |    6.60 |    4.10 |    1.50 |
     1280 |   12.40 |    6.50 |    4.10 |    1.40 |
     1300 |   12.60 |    6.60 |    4.10 |    1.50 |
     1320 |   12.50 |    6.50 |    4.10 |    1.40 |
     1340 |   12.40 |    6.50 |    4.00 |    1.50 |
     1500 |   12.50 |    6.60 |    4.10 |    1.50 |
     1750 |   12.40 |    6.50 |    4.00 |    1.40 |
     2000 |   12.10 |    6.50 |    4.10 |    1.40 |
     2250 |   12.20 |    6.60 |    4.10 |    1.40 |
     2500 |   12.20 |    6.60 |    4.10 |    1.50 |
     2750 |   12.10 |    6.60 |    4.10 |    1.50 |
     3000 |   11.90 |    6.60 |    4.10 |    1.50 |
     3250 |   11.70 |    6.50 |    4.10 |    1.50 |
     3500 |   11.80 |    6.60 |    4.10 |    1.50 |
     3750 |   11.70 |    6.50 |    4.10 |    1.50 |
     4000 |   11.90 |    6.50 |    4.10 |    1.50 |
     4250 |   10.10 |    6.70 |    3.90 |    1.40 |
     4500 |   10.10 |    6.70 |    4.00 |    1.50 |
     4750 |   10.10 |    6.80 |    4.00 |    1.50 |
     5000 |    9.90 |    6.70 |    3.90 |    1.40 |
     5250 |   10.00 |    6.70 |    4.00 |    1.50 |
     5460 |    9.90 |    6.80 |    3.90 |    1.40 |
     5480 |    9.90 |    6.70 |    4.00 |    1.50 |
     5500 |    9.80 |    6.70 |    3.90 |    1.50 |
     5520 |    9.80 |    6.70 |    3.90 |    1.50 |
     5540 |    9.80 |    6.70 |    3.90 |    1.50 |
     5560 |    9.80 |    6.70 |    4.00 |    1.50 |
     5580 |    9.80 |    6.70 |    4.00 |    1.50 |
     5600 |    9.70 |    6.60 |    3.90 |    1.50 |
     6000 |    9.70 |    6.70 |    3.90 |    1.50 |
     6250 |    9.50 |    6.70 |    3.90 |    1.50 |
     6500 |    9.60 |    6.70 |    3.90 |    1.50 |
     6750 |    9.60 |    6.70 |    3.90 |    1.50 |
     7000 |    9.70 |    6.70 |    3.90 |    1.50 |
     7250 |    9.30 |    6.60 |    3.80 |    1.50 |
     7500 |    9.40 |    6.60 |    3.90 |    1.50 |
     7750 |    9.40 |    6.70 |    3.90 |    1.50 |
     8000 |    9.40 |    6.70 |    4.00 |    1.70 |
     8030 |    9.30 |    6.70 |    3.90 |    1.60 |
     8040 |    9.30 |    6.60 |    3.90 |    1.50 |
     8050 |    9.30 |    6.70 |    4.00 |    1.60 |
     8060 |    9.30 |    6.70 |    3.90 |    1.60 |
     8070 |    9.20 |    6.70 |    3.90 |    1.60 |
     8080 |    9.20 |    6.70 |    3.90 |    1.60 |
     8090 |    9.20 |    6.60 |    3.90 |    1.50 |
     8100 |    9.10 |    6.70 |    3.90 |    1.60 |
     8110 |    9.20 |    6.60 |    3.90 |    1.60 |
     8120 |    9.20 |    6.70 |    3.90 |    1.60 |
     8130 |    9.30 |    6.80 |    3.90 |    1.60 |
     8140 |    9.30 |    6.80 |    4.00 |    1.60 |
     8150 |    9.20 |    6.70 |    3.90 |    1.60 |
     8160 |    9.30 |    6.80 |    4.00 |    1.70 |
     8170 |    9.30 |    6.80 |    4.00 |    1.70 |
     8180 |    9.10 |    6.80 |    4.00 |    1.60 |
     8190 |    9.20 |    6.80 |    4.10 |    1.70 |
     8200 |    9.20 |    6.90 |    4.10 |    1.70 |
     8210 |    9.30 |    6.80 |    3.90 |    1.60 |
     8220 |    9.10 |    6.80 |    3.90 |    1.60 |
     8230 |    9.40 |    7.00 |    4.30 |    2.00 |
     8240 |    9.30 |    7.00 |    4.30 |    2.00 |
     8250 |    9.30 |    7.00 |    4.20 |    2.00 |
     8260 |    9.30 |    7.10 |    4.50 |    2.10 |
     8270 |   10.20 |    7.90 |    5.40 |    2.60 |
     8280 |   10.10 |    7.80 |    5.40 |    2.50 |
     8290 |   10.40 |    8.00 |    5.80 |    2.70 |
     8300 |   10.30 |    7.90 |    5.60 |    3.00 |
     8310 |   10.40 |    8.10 |    5.70 |    3.20 |
     8320 |    9.40 |    7.40 |    4.80 |    2.50 |
     8330 |    9.50 |    7.30 |    4.60 |    2.30 |
     8340 |    9.30 |    7.30 |    4.60 |    2.10 |
     8350 |    9.80 |    7.70 |    5.10 |    2.60 |
     8360 |    9.80 |    7.80 |    5.30 |    2.80 |
     8370 |    9.70 |    7.60 |    4.80 |    2.40 |
     8380 |    9.70 |    7.60 |    4.90 |    2.50 |
     8390 |    9.80 |    7.60 |    5.00 |    2.60 |
     8400 |   11.50 |    9.40 |    7.20 |    4.20 |
     8410 |   14.30 |   12.50 |   10.80 |    6.70 |
     8420 |   14.10 |   12.30 |   10.50 |    6.90 |
     8430 |   15.40 |   13.60 |   12.00 |    8.00 |
     8440 |   15.70 |   13.80 |   12.00 |    7.70 |
     8460 |   16.60 |   14.80 |   13.00 |    8.90 |
     8500 |   22.80 |   21.10 |   19.80 |   15.00 |
     8600 |   38.10 |   20.80 |   14.80 |    9.70 |
     8676 |   51.20 |   24.30 |   21.00 |   16.30 |
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