WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE	GS
	BFW
COMPANY:	SOUTHERN CALIF. GAS CO.
WELL:	PORTER 36
FIELD:	ALISO CANYON
COUNTY:	LOS ANGELES
STATE:	CALIFORNIA
LOCATION:	DISTRICT 2
OTHER SVC:	
API NUMBER:	0403700723
SEC: 27	TWN: 3N RNG: 16W

PERMANENT DATUM: GROUND LEVEL ELEV: 1925.00'
LOG MEASURED FROM KB 7' ABOVE PERM DATUM
DRILLING MEASURED FROM

-ELEVATIONS-
KB: 1932.00 Ft.
DF: Ft.
GL: 1925.00 Ft.

DATE LOG RAN	06-01-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			15
EFFECTIVE DEPTH	7707' BP	CASING PSI			15
PICKUP DEPTH	7707'	INJECTION RATE		N/A	
BOT LOGGED INT	7707'	OBSERVED RATE		N/A	
TOP LOGGED INT	100'	R/A SOURCE		N/A	
TYPE OF INJECT	NONE	ACTIVITY		N/A	
FLUID IN WELL	G/W	HALF LIFE		N/A	
FLUID LEVEL	N/A				
WELL STATUS	STATIC			PRODUCTION DATA	
MAX TEMPERATURE	178.3 F.	OIL Gr.	N/A	OIL =	N/A
AT DEPTH	7707.0'	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	N/A				

Equipment Data

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

Remarks/Survey Results

PLEASE NOTE: POSSIBLE TUBING TAIL @ 7301'.
07:00AM - ON LOCATION
07:30AM - RAN IN HOLE
07:40AM - BEGIN SURVEY
12:30PM - PULL OUT OF HOLE
01:00PM - OFF LOCATION

SAND TAG MARKERS: 7562' TOP MP
7785' TOP S1
7867' TOP S4
7970' TOP S8

TOOL DIAGRAM

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

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.625"	55	SURFACE	517'				
7.000"	29	SURFACE	7850'				
5.000"	18	7737'	7977'				
2.875"	6.5	SURFACE	7724'				

STR.	PIPE DIA.	PERFORATIONS
A	5.000"	7870'-7903' WSO 7907', , 7910'-7970',
		7920'-7926', 7930'-7968'.
		PACKERS: 7720'.
		GAS LIFT MANDRELS: 7632'.
		SLIDING SLEEVES: 7677'.
		NO-GO: 7707.6'.

Audio Data: C:\data\NOISE.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
100	13.80	7.10	4.50	1.70
120	13.40	7.10	4.50	1.70
140	13.50	7.20	4.60	1.70
160	13.50	7.10	4.50	1.70
180	13.70	7.00	4.40	1.70
200	13.50	7.10	4.40	1.60
220	13.70	7.10	4.40	1.70
240	13.40	7.10	4.50	1.70
260	13.70	7.00	4.40	1.60
280	13.70	7.00	4.40	1.60
300	13.50	7.00	4.30	1.60
320	13.50	7.00	4.30	1.60
340	13.70	7.10	4.40	1.60
360	13.90	7.10	4.40	1.70
380	13.70	7.00	4.40	1.60
400	13.50	7.00	4.30	1.60
420	13.60	7.10	4.50	1.70
440	13.50	7.00	4.40	1.60
460	13.60	7.00	4.40	1.60
750	13.60	7.00	4.40	1.60
1000	13.40	6.90	4.40	1.60
1250	13.60	7.00	4.40	1.60
1500	13.20	6.90	4.40	1.70
1750	13.00	7.00	4.40	1.60
2000	13.00	6.90	4.40	1.60
2250	12.90	7.10	4.60	1.70
2500	12.90	6.90	4.40	1.70
2750	12.70	6.80	4.40	1.70
3000	12.70	6.80	4.40	1.60
3250	12.60	6.80	4.40	1.70
3500	12.40	6.80	4.40	1.70
3750	12.30	6.80	4.40	1.70
4000	12.30	6.80	4.40	1.70
4250	12.30	6.80	4.40	1.70
4460	12.30	6.80	4.40	1.70
4480	12.30	6.80	4.40	1.70
4500	12.20	6.80	4.40	1.70
4520	12.10	6.80	4.40	1.70
4540	12.10	6.80	4.40	1.70
4560	12.10	6.90	4.40	1.70
4580	12.20	6.80	4.40	1.70
4600	12.20	6.80	4.40	1.70
4620	12.10	6.80	4.40	1.70
4640	12.10	6.80	4.40	1.70
4660	12.20	6.90	4.50	1.70
4750	12.10	6.90	4.40	1.70
5000	12.00	6.80	4.40	1.80
5250	12.00	6.90	4.40	1.80
5500	11.90	6.80	4.40	1.70
5750	11.90	6.80	4.40	1.70
6000	11.50	6.80	4.40	1.70
6250	11.90	6.90	4.50	1.80
6500	11.80	7.00	4.60	1.90
6750	11.60	6.90	4.50	1.80
7000	11.20	6.80	4.40	1.80
7200	11.40	6.90	4.50	1.80
7220	11.50	7.00	4.60	1.90
7240	11.30	6.80	4.50	1.80
7260	11.60	7.00	4.60	1.90
7280	11.20	6.80	4.50	1.70
7290	11.20	6.80	4.40	1.80
7300	11.10	6.80	4.40	1.70
7310	11.30	6.80	4.50	1.70
7320	11.20	6.80	4.40	1.70
7330	11.20	6.80	4.40	1.70
7340	11.30	6.80	4.50	1.70
7350	11.20	6.80	4.50	1.80
7360	11.10	6.90	4.50	1.80
7370	11.30	6.90	4.50	1.80
7380	11.20	6.90	4.50	1.80
7390	11.20	6.90	4.50	1.70
7400	11.20	6.90	4.50	1.70
7410	11.10	6.90	4.50	1.80
7420	11.10	6.80	4.40	1.80
7430	11.10	6.90	4.50	1.80
7440	11.00	6.90	4.50	1.80
7450	11.10	6.90	4.50	1.80
7460	11.10	6.90	4.50	1.80
7470	11.00	7.00	4.50	1.80
7480	11.00	6.90	4.50	1.80
7490	11.10	7.00	4.50	1.80
7500	11.00	6.90	4.50	1.80
7510	11.00	7.10	4.60	1.90
7520	11.00	7.00	4.50	1.80
7530	10.90	6.90	4.50	1.80
7540	10.90	7.00	4.50	1.80
7550	10.80	7.00	4.50	1.80
7560	10.90	7.00	4.50	1.80
7570	10.80	7.00	4.50	1.80
7580	10.80	7.00	4.40	1.80
7590	10.90	7.10	4.50	1.80
7600	10.80	7.10	4.50	1.80
7610	10.80	7.00	4.50	1.80
7620	10.80	7.10	4.50	1.80
7630	10.80	7.10	4.50	1.80
7640	10.70	7.00	4.50	1.80
7650	10.80	7.10	4.50	1.80
7660	10.60	7.00	4.50	1.80
7670	10.70	7.20	4.60	1.90
7680	10.70	7.10	4.50	1.80
7690	10.60	7.10	4.50	1.80
7700	10.60	7.10	4.50	1.80
7707	8.80	6.00	3.90	1.60