WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

COMPANY:	SOUTHERN CALIF. GAS CO.
WELL:	PORTER 26
FIELD:	ALISO CANYON
COUNTY:	LOS ANGELES
STATE:	CALIFORNIA
LOCATION:	DISTRICT 2
OTHER SVC:	
API NUMBER:	0403700713
SEC: 28	TWN: 3N RNG: 16W
WELL TYPE	GS
	CB

PERMANENT DATUM: GROUND LEVEL ELEV: 2511.74 FT.
LOG MEASURED FROM KB 12' ABOVE PERM DATUM
DRILLING MEASURED FROM

-ELEVATIONS-
KB: 2523.74 Ft.
DF: Ft.
GL: 2511.74 Ft.

DATE LOG RAN	03-17-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1217
EFFECTIVE DEPTH	8203'	CASING PSI			1217
PICKUP DEPTH	8020'	INJECTION RATE	N/A		
BOT LOGGED INT	8020'	OBSERVED RATE	N/A		
TOP LOGGED INT	25'	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	173.3 F.	OIL Gr.	OIL =		
AT DEPTH	8020.0'	GAS Gr.	GAS=		
TEMPERATURE SENS	1 F/DIV.	MPP	BHP =		
LOGGING SPEED	100 FPM		WATER=		
RECORDED BY	S. MACIAS				
WITNESSED BY	N/A				
EMAIL TO	A. KARGAR				
DEPTH CORRELATION	LINER TOP				

Equipment Data

COLLAR LOCTOR	1.375"		
TEMPERATURE TOOL	1.375"		
AUDIO DETECTOR	1.375"		

TOOL DIAGRAM

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

Remarks/Survey Results

10:30 AM - ON LOCATION
11:29 AM - RAN IN HOLE
11:30 AM - BEGIN SURVEY
04:30 AM - PULL OUT OF HOLE
05:00 PM - OFF LOCATION
SAND TAG MARKERS: 7336' TOP MP
7550' TOP S1
7644' TOP S4
7727' TOP S8
7930' TOP FREW

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	523'	5.500"	18.0	6007'	8203'
9.625"	40, 43.5	SURFACE	6120'	4.750"	16.0	7556'	7840'
6.625"	24.0	SURFACE	5844'	2.875"	6.5	SURFACE	5840'
6.625"	26.29	6162'	7610'				

STR.	PIPE DIA.	PERFORATIONS
A	5.500"	SQUEEZED: 7513', SQUEEZED: 7605', 7658'-8192'.
		PACKERS: 5823', 5840'.
		GAS LIFT MANDREL: 5711'.
		SLIDING SLEEVES: 5756'.
		NO-GO: 5791'.

Audio Data: c:\data\noise.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
100	10.40	8.20	1.70	1.00
250	10.70	8.40	1.80	1.00
420	10.80	8.30	1.80	1.00
440	10.90	8.20	1.80	1.00
460	10.70	8.30	1.80	1.00
480	10.90	8.10	1.80	1.00
500	10.50	8.10	1.80	1.00
520	10.50	8.20	1.70	1.00
540	10.40	8.20	1.70	1.00
560	10.30	8.20	1.70	1.00
580	10.50	8.20	1.70	1.00
600	10.50	8.10	1.70	1.00
620	10.40	8.10	1.70	1.00
640	10.40	8.10	1.80	1.00
660	10.60	8.20	1.70	1.00
680	10.50	8.20	1.70	1.00
700	10.40	8.20	1.70	1.00
720	10.30	8.10	1.70	1.00
740	10.90	8.50	2.20	1.30
760	10.50	8.10	1.70	1.00
780	10.50	8.20	1.90	1.10
800	10.60	8.20	1.70	1.00
820	10.60	8.30	1.70	1.00
840	10.50	8.20	1.80	1.00
860	10.80	8.40	2.20	1.10
880	10.90	8.20	1.70	1.00
900	10.70	8.30	1.70	1.00
1000	10.50	8.10	1.70	1.00
1250	10.40	8.10	1.80	1.00
1500	11.00	8.40	2.70	1.00
1750	10.80	8.30	2.40	1.00
2000	10.70	8.20	2.20	1.00
2250	10.30	8.00	1.90	1.00
2500	10.20	7.90	1.80	1.00
2750	10.50	8.00	1.80	1.00
3000	10.20	8.00	1.80	1.00
3250	10.00	7.90	1.80	1.00
3500	9.90	7.70	1.80	1.00
3750	9.80	7.30	1.70	1.00
4000	8.10	6.50	1.50	0.80
4250	9.40	7.50	1.80	1.10
4500	9.70	7.70	1.80	1.10
4750	9.50	7.50	1.80	1.10
5000	9.20	7.30	1.80	1.10
5250	9.30	7.40	1.80	1.10
5500	9.30	7.50	1.80	1.10
5700	9.00	7.30	1.90	1.10
5710	9.10	7.30	1.80	1.10
5720	9.00	7.20	1.80	1.10
5730	9.10	7.30	1.80	1.10
5740	9.10	7.20	1.80	1.10
5750	9.30	7.50	1.80	1.10
5760	9.20	7.40	1.80	1.10
5770	9.10	7.30	1.80	1.10
5780	9.10	7.20	1.80	1.10
5790	9.00	7.20	1.80	1.10
5800	9.20	7.40	1.80	1.10
5810	9.10	7.30	1.80	1.10
5820	9.20	7.30	1.80	1.10
5830	9.00	7.30	1.80	1.10
5840	9.10	7.30	1.80	1.10
5850	9.00	7.30	1.80	1.10
5860	9.10	7.30	1.80	1.10
5870	9.00	7.30	1.80	1.10
5880	9.00	7.30	1.80	1.10
5900	9.10	7.30	1.80	1.10
5920	9.00	7.30	1.80	1.10
5940	9.20	7.40	1.80	1.10
5960	9.10	7.40	1.90	1.10
5980	9.10	7.30	1.80	1.10
6000	9.00	7.20	1.80	1.10
6020	9.20	7.30	1.80	1.10
6030	9.10	7.30	1.80	1.10
6040	9.10	7.30	1.80	1.10
6050	9.10	7.20	1.80	1.10
6060	9.20	7.40	1.80	1.10
6070	9.20	7.30	1.80	1.10
6080	9.20	7.40	1.90	1.10
6090	9.80	7.50	2.00	1.20
6100	9.20	7.30	1.80	1.10
6110	9.20	7.40	2.00	1.20
6120	9.20	7.30	1.80	1.10
6130	9.20	7.40	1.80	1.10
6140	9.00	7.30	1.80	1.10
6150	9.20	7.40	1.80	1.10
6160	9.20	7.40	1.90	1.10
6170	9.40	7.50	1.90	1.10
6180	9.20	7.40	1.90	1.10
6190	9.10	7.20	1.90	1.20
6200	9.20	7.30	1.80	1.10
6450	9.00	7.10	1.80	1.10
6700	9.10	7.20	1.90	1.10
6950	9.20	7.10	1.90	1.10
7200	8.80	6.90	1.80	1.10
7210	8.80	6.90	1.80	1.10
7220	8.70	6.80	1.90	1.10
7230	8.60	6.80	1.80	1.10
7240	8.80	6.90	2.10	1.20
7250	8.70	6.80	1.90	1.20
7260	8.70	6.80	1.90	1.20
7270	8.70	6.80	1.90	1.10
7280	8.70	6.90	1.80	1.10
7290	8.90	6.80	1.90	1.10
7300	8.70	6.80	1.80	1.10
7310	8.90	7.00	2.00	1.20
7320	8.80	7.00	1.90	1.20
7330	9.40	7.20	2.00	1.20
7340	9.20	7.20	1.90	1.10
7350	9.10	7.00	1.90	1.20
7360	9.00	7.10	1.90	1.10
7370	9.30	7.20	2.00	1.20
7380	9.10	7.10	2.00	1.20
7390	9.30	7.10	1.90	1.20
7400	9.30	7.30	2.00	1.20
7410	9.10	7.10	1.90	1.20
7420	8.90	7.00	1.90	1.20
7430	9.00	7.00	1.90	1.20
7440	9.10	7.10	1.90	1.20
7450	9.00	7.10	1.90	1.20
7460	9.10	7.10	1.90	1.20
7470	9.20	7.20	1.90	1.20
7480	9.10	7.00	1.90	1.20
7490	8.90	7.00	1.90	1.20
7500	9.10	7.10	1.90	1.20
7510	8.90	7.00	1.90	1.20
7520	9.10	7.20	2.20	1.40
7530	9.20	7.20	2.00	1.30
7540	9.00	7.00	2.00	1.30
7550	9.00	7.10	1.90	1.20
7560	8.90	7.10	2.00	1.30
7570	9.00	7.10	2.00	1.30
7580	8.90	7.10	1.90	1.20
7590	9.20	7.30	2.00	1.30
7600	9.40	7.30	2.00	1.30
7700	9.50	7.50	2.40	1.70
7800	45.90	9.40	3.70	1.90
7900	25.20	9.20	4.20	1.50
8000	20.10	7.10	2.00	1.20