WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE	GS, OG
COMPANY:	SOUTHERN CALIF GAS CO.
WELL:	PORTER 32B
FIELD:	ALISO CANYON
COUNTY:	LOS ANGELES
STATE:	CALIFORNIA
LOCATION:	DISTRICT 2
OTHER SVC:	CB
API NUMBER:	0403721276
SEC: 27	TWN: 03N RNG: 16W

PERMANENT DATUM: GROUND LEVEL ELEV:
LOG MEASURED FROM KB 21' ABOVE PERM DATUM
DRILLING MEASURED FROM

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

			FLOWING	INJECTION	SHUT-IN
DATE LOG RAN	03-2-2016	PRESSURE			
RUN NUMBER	ONE	TUBING PSI			1094
EFFECTIVE DEPTH	7637'	CASING PSI			1094
BOT LOGGED INT	7564'	INJECTION RATE	N/A		
TOP LOGGED INT	100'	OBSERVED RATE	N/A		
TYPE OF INJECT	NONE	R/A SOURCE	N/A		
FLUID IN WELL	GAS	ACTIVITY	N/A		
FLUID LEVEL	N/A	HALF LIFE	N/A		
WELL STATUS	STATIC	PRODUCTION DATA			
MAX TEMPERATURE	152.6 F	OIL Gr.		OIL=	
AT DEPTH	7224.0'	GAS Gr.		GAS=	
TEMPERATURE SENS	1 F/DIV.			BHP=	
LOGGING SPEED	100 FPM	MPP		WATER=	
RECORDED BY	C. BARAJAS				
WITNESSED BY	A. KARGAR				
EMAIL TO	N/A				
DEPTH CORRELATION	LINER TOP				

Equipment Data

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

TOOL DIAGRAM

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

Remarks/Survey Results

SAND TAG MARKERS: 7390' TOP S4
7475' TOP S8

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	40.0	SURFACE	694'	2.875"	6.5	SURFACE	7213.8'
8.625"	36.0	SURFACE	7359'				
7.000"	23.0	6652.4'	7390'				
6.625"	11.6	7275'	7637'				

STR.	PIPE DIA.	PERFORATIONS
A	4.500"	7402'-7637'.

PACKERS: 7211.5'-7213'.
GAS LIFT MANDREL: 7125.5'-7130'.
SLIDING SLEEVES: 7166.9'-7169'.
ON/OFF TOOL: 7203.3'.

Audio Data: C:\data\NOISE.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
100	13.40	3.80	2.20	0.80
250	4.90	3.50	1.80	0.90
500	4.90	3.30	1.80	0.90
560	5.30	3.20	1.80	0.80
620	4.90	3.20	1.80	0.80
640	4.70	3.30	1.80	0.80
660	4.50	3.30	1.80	0.90
680	4.70	3.80	2.10	1.00
700	4.40	3.50	1.90	0.90
720	4.10	3.30	1.80	0.90
740	4.10	3.40	1.90	0.90
760	5.20	3.90	2.10	1.00
780	4.30	3.50	2.00	0.90
800	4.80	3.70	2.00	0.90
1000	4.20	3.60	2.00	0.90
1250	4.40	3.50	1.90	0.90
1500	4.00	3.30	1.80	0.90
1750	3.80	3.50	1.90	0.90
2000	3.80	3.50	2.00	0.90
2250	3.50	3.10	1.80	0.90
2500	3.50	3.20	1.80	0.90
2750	3.80	3.40	1.90	0.90
3000	3.70	3.40	1.90	0.90
3250	3.70	3.40	1.90	0.90
3500	4.20	3.50	2.00	0.90
3740	3.60	3.30	1.80	0.90
3760	3.80	3.40	1.90	0.90
3780	4.10	3.50	2.30	1.10
3800	4.20	3.60	2.00	1.00
3820	4.40	3.50	1.90	0.90
3840	4.90	3.70	2.40	1.20
3860	3.90	3.50	2.00	0.90
3880	3.70	3.20	1.80	0.90
3900	3.70	3.40	1.90	0.90
3920	4.00	3.50	2.00	0.90
3940	3.40	3.10	1.80	0.90
3960	3.40	3.10	1.80	0.90
3980	3.40	3.10	1.80	0.90
4000	3.70	3.30	1.80	0.90
4020	3.90	3.60	2.00	0.90
4040	3.80	3.50	1.90	0.90
4060	4.30	3.70	2.10	1.00
4080	3.70	3.40	1.90	0.90
4100	3.80	3.40	1.90	0.90
4120	4.80	4.00	2.40	1.20
4140	4.20	3.60	2.10	1.00
4160	4.20	3.60	2.10	1.00
4200	4.20	3.70	2.10	1.00
4500	3.30	3.10	1.80	0.90
4750	3.40	3.10	1.80	0.90
5000	4.00	3.60	2.10	0.90
5250	3.30	3.10	1.80	0.90
5300	3.40	3.10	1.80	0.90
5320	3.30	3.00	1.80	0.90
5340	4.50	3.70	2.20	1.20
5360	3.90	3.50	2.20	1.10
5380	3.70	3.50	2.00	1.00
5400	3.50	3.20	1.80	0.90
5420	4.30	3.50	2.00	0.90
5440	4.30	3.60	2.10	0.90
5460	3.60	3.30	1.90	0.90
5480	3.40	3.10	1.80	0.90
5500	3.40	3.10	1.80	0.90
5520	3.40	3.10	1.80	0.90
5540	3.30	3.00	1.80	0.90
5560	3.30	3.00	1.80	0.90
5580	3.30	3.10	1.80	0.90
5600	4.30	3.60	2.40	1.20
5650	3.30	3.00	1.70	0.90
5900	3.30	3.00	1.80	0.90
5950	3.30	3.10	1.80	0.90
6000	3.30	3.10	1.80	0.90
6020	4.50	3.40	2.10	1.00
6040	3.30	3.10	2.00	0.90
6060	3.30	3.10	1.80	0.90
6250	3.80	3.20	1.90	1.00
6500	3.20	3.00	1.80	0.90
6800	3.50	3.10	1.80	0.90
6820	3.40	3.00	1.80	0.90
6840	3.30	3.10	1.80	1.00
6860	3.30	3.00	1.80	1.00
6880	3.50	3.10	1.80	1.00
6900	3.30	3.00	1.80	0.90
6920	3.40	3.00	1.80	0.90
6940	3.70	3.10	1.80	0.90
6960	3.50	3.10	1.80	0.90
6980	3.30	3.00	1.80	0.90
7000	3.30	3.00	1.80	0.90
7010	3.40	3.00	1.80	0.90
7020	3.30	3.00	1.80	0.90
7030	3.30	3.00	1.80	0.90
7040	3.40	3.00	1.80	0.90
7050	3.30	3.00	1.80	0.90
7060	3.40	3.10	1.80	0.90
7070	3.30	3.00	1.80	0.90
7080	3.30	3.00	1.80	0.90
7090	3.20	3.00	1.80	0.90
7100	3.60	3.30	2.20	1.30
7110	3.30	3.00	1.70	0.90
7120	3.30	3.00	1.80	0.90
7130	3.50	3.00	1.80	0.90
7140	3.20	3.00	1.80	0.90
7150	3.30	3.00	1.70	0.90
7160	3.20	3.00	1.70	0.90
7170	3.20	3.00	1.80	0.90
7180	3.20	3.00	1.80	0.90
7190	3.30	3.00	1.80	0.90
7200	3.20	3.00	1.80	0.90
7210	3.30	3.00	1.80	0.90
7220	3.20	3.00	1.70	0.90
7230	3.20	2.90	1.70	0.90
7240	3.30	3.00	1.80	0.90
7250	3.20	3.00	1.70	0.90
7260	3.40	3.10	1.80	0.90
7270	3.20	3.00	1.70	0.90
7280	3.20	3.00	1.80	0.90
7290	3.20	3.00	1.70	0.90
7300	3.40	3.10	1.80	0.90
7310	3.20	3.00	1.70	0.90
7320	3.20	2.90	1.70	0.90
7330	3.20	2.90	1.70	0.90
7340	3.30	3.00	1.80	0.90
7350	3.20	2.90	1.70	0.90
7360	3.20	2.90	1.70	0.90
7370	3.20	2.90	1.70	0.90
7380	3.20	2.90	1.70	0.90
7390	3.20	2.90	1.70	0.90
7400	3.30	3.00	1.80	0.90
7450	3.30	3.00	1.80	0.90
7500	3.20	2.90	1.70	0.90
7550	3.20	2.90	1.70	0.90
7564	3.10	2.90	1.70	0.90