WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE GS	COMPANY: SOUTHERN CALIF. GAS CO.		
	WELL: PORTER 69F		
	FIELD: ALISO CANYON		
	COUNTY: LOS ANGELES	STATE: CALIFORNIA	
VS	LOCATION: DISTRICT 2 API NUMBER: 0403724226 SEC: 28 TWN: 3N RNG: 16W	OTHER SVC:	

PERMANENT DATUM: GROUND LEVEL ELEV:

LOG MEASURED FROM KB 28' ABOVE PERM DATUM

DRILLING MEASURED FROM

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

DATE LOG RAN	03-16-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1140
EFFECTIVE DEPTH	7980'	CASING PSI			1140
PICKUP DEPTH	N|A	INJECTION RATE	N|A		
BOT LOGGED INT	7400'	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	SHUT-IN			PRODUCTION DATA	
MAX TEMPERATURE	156.5 F.	OIL Gr.	N|A	OIL =	N|A
AT DEPTH	7392.0'	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	S. MACIAS				
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"

TOOL DIAGRAM

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

Remarks/Survey Results

11:45 AM - ON LOCATION
12:00 PM - RAN IN HOLE
12:00 PM - BEGIN SURVEY
02:45 PM - PULL OUT OF HOLE
03:00 PM - OFF LOCATION

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54	SURFACE	824'				
9.625"		SURFACE	7980'				
5.500"		7478'	7878'				
2.875"	6.5	SURFACE	7414'				

STR.	PIPE DIA.	PERFORATIONS
A	9.625"	7645'-7790', 7806'-7828'.
	5.500"	7839'-7877'.
		PACKERS: 7385.2'-7390.5', 7497.6'-7517.9'.
		MANDRELS: 971'-978'.
		SLEEVES: 7339'-7342.4', 7398'-7401.4'.
		NO-GO: 7376.7'-7377.9', 7411.6'-7413'.

Audio Data: c:\data\noise.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
100	10.60	6.90	1.40	0.80
250	9.50	6.90	1.40	0.80
500	10.50	8.30	1.80	1.00
550	10.40	8.30	1.80	1.00
570	10.40	8.20	1.80	1.00
590	10.70	8.50	1.80	1.10
600	10.50	8.40	1.80	1.00
610	10.40	8.30	1.80	1.00
630	10.50	8.40	1.80	1.00
650	10.30	8.20	1.80	1.00
670	10.50	8.30	1.80	1.00
690	10.50	8.40	1.80	1.00
710	10.50	8.30	1.80	1.00
730	10.60	8.30	1.80	1.00
750	10.40	8.20	1.80	1.00
760	10.30	8.30	1.80	1.00
770	10.40	8.30	1.80	1.00
780	10.40	8.20	1.80	1.00
790	10.50	8.40	1.80	1.00
800	10.40	8.30	1.80	1.00
810	10.50	8.30	1.80	1.00
830	10.30	8.30	1.80	1.00
850	10.60	8.30	1.80	1.00
1000	10.50	8.30	1.80	1.10
1250	10.10	8.00	1.80	1.00
1500	10.30	8.10	1.80	1.00
1750	10.10	8.10	1.80	1.10
2000	10.00	7.90	1.80	1.10
2250	10.00	7.70	1.80	1.00
2500	10.10	7.80	1.80	1.00
2751	10.00	7.70	1.80	1.00
3000	9.70	7.60	1.80	1.00
3250	9.70	7.80	1.80	1.10
3500	9.40	7.50	2.10	1.20
3750	9.00	7.20	2.70	1.50
4000	9.80	7.70	1.80	1.10
4250	9.60	7.60	1.80	1.10
4500	9.70	7.80	1.80	1.10
4520	9.70	7.60	1.90	1.10
4540	9.40	7.50	1.80	1.10
4560	9.40	7.50	1.80	1.10
4580	9.40	7.60	1.80	1.10
4600	9.50	7.60	1.80	1.10
4620	9.70	7.70	1.90	1.10
4640	9.70	7.70	1.90	1.10
4660	9.50	7.60	1.90	1.10
4680	9.90	7.80	2.10	1.20
4700	9.40	7.60	1.80	1.10
4720	9.50	7.50	1.80	1.10
4740	9.40	7.50	1.80	1.10
4760	9.40	7.50	1.80	1.10
4780	9.50	7.50	1.90	1.10
4800	9.30	7.40	1.80	1.10
4820	9.30	7.40	1.80	1.10
4840	9.30	7.50	1.80	1.10
4860	9.50	7.60	1.80	1.10
4880	9.60	7.70	1.90	1.10
4900	9.30	7.40	1.80	1.10
4920	9.40	7.50	1.80	1.10
4940	9.20	7.40	1.80	1.10
4960	9.40	7.50	1.80	1.10
4980	9.30	7.50	1.80	1.10
5000	9.80	7.80	2.00	1.10
5020	9.50	7.60	1.80	1.10
5040	9.00	7.20	1.80	1.10
5060	9.40	7.60	1.80	1.10
5080	9.40	7.60	1.80	1.10
5100	9.40	7.60	1.80	1.10
5250	9.30	7.50	1.80	1.10
5500	9.30	7.40	1.80	1.10
5750	9.10	7.40	1.80	1.10
6000	9.00	7.30	1.90	1.10
6250	9.00	7.30	1.90	1.10
6500	9.00	7.30	2.10	1.20
6750	9.00	7.20	1.80	1.10
7000	8.80	7.20	1.80	1.10
7180	8.80	7.10	1.90	1.10
7190	8.80	7.20	1.80	1.10
7200	8.90	7.20	1.90	1.10
7210	9.00	7.20	1.80	1.10
7220	8.80	7.10	1.80	1.10
7230	8.80	7.10	1.80	1.10
7240	8.70	7.10	1.80	1.10
7250	8.70	7.00	1.80	1.10
7260	8.90	7.20	1.90	1.10
7270	8.80	7.20	1.80	1.10
7280	8.90	7.20	1.90	1.10
7290	8.80	7.20	1.80	1.10
7300	8.80	7.20	1.90	1.10
7310	8.70	7.10	1.80	1.10
7320	8.80	7.20	1.90	1.10
7330	9.00	7.40	1.90	1.10
7340	8.80	7.20	1.80	1.10
7350	8.90	7.30	1.80	1.10
7360	8.80	7.20	1.90	1.10
7370	9.90	7.30	1.90	1.10
7380	9.10	7.30	1.90	1.10
7390	9.90	7.50	2.00	1.20
7400	10.00	7.40	2.00	1.10