WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

COMPANY:	SOUTHERN CALIF. GAS CO.
WELL:	PORTER 69K
FIELD:	ALISO CANYON
COUNTY:	LOS ANGELES
STATE:	CALIFORNIA
LOCATION:	DISTRICT 2
OTHER SVC:	
WELL TYPE:	GS

AJ

API NUMBER: 0403724236
SEC: 28 TWN: 3N RNG: 16W

PERMANENT DATUM: GROUND LEVEL ELEV: 2366.00 FT.
LOG MEASURED FROM KB 29' ABOVE PERM DATUM
DRILLING MEASURED FROM

-ELEVATIONS-
KB: 2395.00 Ft.
DF: Ft.
GL: 2366.00 Ft.

DATE LOG RAN	03-20-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1084
EFFECTIVE DEPTH	8273' [PLUG]	CASING PSI			1084
PICKUP DEPTH	N/A	INJECTION RATE	N/A		
BOT LOGGED INT	7900'	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	165.2 F	OIL Gr.	OIL =		
AT DEPTH	7712.0'	GAS Gr.	GAS=		
TEMPERATURE SENS	1 F/DIV.	MPP	BHP =		
LOGGING SPEED	100 FPM		WATER=		
RECORDED BY	D. PROKUSKI				
WITNESSED BY	N/A				
ENGINEER	A. KARGAR				
DEPTH CORRELATION	N/A				

Equipment Data

COLLAR LOCATOR	1.375"		
TEMPERATURE TOOL	1.375"		
AUDIO DETECTION	1.375"		

TOOL DIAGRAM

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

Remarks/Survey Results

7:00AM ON LOCATION
7:30AM RAN IN HOLE
7:45AM BEGIN SURVEY
10:30AM PULL OUT OF HOLE
10:45AM OFF LOCATION

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	923'	2.875"	6.5	SURFACE	8060'
9.625"	47.0	SURFACE	8801'				
6.000"	24.0	7726'	8083.7'				
5.000"	15.5	8072'	8273.9'				

STR.	PIPE DIA.	PERFORATIONS
A	9.625"	7875'-7975', 7975'-8050', 8115'-8240'.
	6.000"	7875'-8050', SQUEEZED: 8093'-8096' .
	5.000"	8115'-8240'.
		PACKERS: 7726'-7729.6', 8072.1'-8075.7'.
		GAS LIFT MANDRELS: 4404.1'-4410.2', 7623.3'-7629.5'.
		SLIDING SLEEVES: 7552'-7555.2', 7661.8'-7667.9'.
		NO-GO: 7735.8', 8081.9'.

Audio Data: c:\data\noise.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
100	13.00	5.80	4.00	2.50
250	9.90	5.90	4.30	2.70
500	9.60	5.50	3.80	2.30
520	9.30	5.50	3.80	2.30
540	9.30	5.40	3.70	2.20
560	9.10	5.50	3.80	2.30
580	9.40	5.40	3.70	2.20
600	9.10	5.40	3.70	2.30
620	9.10	5.50	3.80	2.30
640	9.10	5.40	3.80	2.30
660	9.00	5.50	3.80	2.30
680	9.10	5.40	3.80	2.30
700	9.10	5.50	3.80	2.30
800	8.90	5.40	3.70	2.20
820	9.20	5.50	3.80	2.30
840	9.20	5.60	3.90	2.40
860	8.90	5.40	3.70	2.20
880	8.90	5.50	3.80	2.30
900	8.90	5.40	3.70	2.20
920	9.00	5.50	3.80	2.30
940	9.00	5.50	3.80	2.30
960	8.90	5.40	3.80	2.30
980	8.90	5.50	3.80	2.40
1000	8.90	5.40	3.80	2.30
1250	8.90	5.50	3.90	2.30
1500	8.70	5.50	3.80	2.40
1750	8.60	5.40	3.70	2.30
2000	8.50	5.40	3.70	2.30
2250	8.60	5.50	3.90	2.40
2550	8.70	5.60	4.00	2.60
2750	8.40	5.60	3.90	2.60
3000	8.30	5.40	3.70	2.30
3250	8.30	5.50	3.80	2.40
3500	8.20	5.40	3.70	2.30
3750	8.10	5.40	3.80	2.30
4000	8.40	5.80	4.30	2.80
4250	8.50	5.80	4.20	2.80
4300	8.30	5.70	4.20	2.80
4320	8.30	5.60	4.00	2.60
4340	8.40	5.70	4.20	2.80
4360	8.20	5.50	3.90	2.60
4380	8.20	5.60	4.00	2.60
4400	8.00	5.40	3.80	2.40
4420	8.00	5.40	3.70	2.30
4440	8.20	5.70	4.10	2.80
4460	8.10	5.40	3.80	2.40
4480	8.00	5.40	3.70	2.40
4500	7.90	5.30	3.70	2.30
4750	7.90	5.30	3.70	2.30
5000	7.40	5.50	3.70	2.40
5250	7.50	5.30	3.60	2.30
5500	7.40	5.30	3.50	2.20
5750	7.50	5.30	3.50	2.20
6000	7.30	5.20	3.50	2.30
6250	7.60	5.30	3.60	2.30
6500	7.40	5.40	3.70	2.40
6750	7.60	5.50	3.90	2.60
7000	7.60	5.20	3.50	2.20
7250	7.50	5.40	3.70	2.40
7450	7.40	5.40	3.70	2.50
7460	7.50	5.20	3.50	2.30
7470	7.50	5.40	3.70	2.50
7480	7.50	5.30	3.60	2.30
7490	7.50	5.30	3.60	2.40
7500	7.40	5.30	3.50	2.30
7510	7.40	5.30	3.50	2.30
7520	7.40	5.30	3.60	2.40
7530	7.30	5.30	3.60	2.40
7540	7.40	5.40	3.70	2.50
7550	7.30	5.30	3.60	2.40
7560	7.40	5.40	3.70	2.50
7570	7.20	5.40	3.70	2.50
7580	7.20	5.40	3.60	2.50
7590	7.30	5.40	3.60	2.50
7600	7.10	5.40	3.60	2.50
7610	7.00	5.40	3.60	2.50
7620	6.80	5.40	3.70	2.60
7630	7.20	5.50	3.70	2.60
7640	7.20	5.30	3.60	2.50
7650	7.20	5.40	3.60	2.40
7660	7.10	5.40	3.60	2.50
7670	7.10	5.40	3.60	2.40
7680	7.10	5.40	3.70	2.50
7690	7.10	5.40	3.70	2.50
7700	7.20	5.40	3.50	2.40
7710	7.20	5.50	3.60	2.50
7720	7.10	5.40	3.60	2.50
7730	7.20	5.40	3.60	2.40
7740	7.20	5.60	3.80	2.60
7750	6.90	5.40	3.50	2.40
7760	7.10	5.40	3.50	2.40
7770	7.30	5.50	3.60	2.50
7780	7.20	5.50	3.60	2.50
7790	7.00	5.40	3.50	2.40
7800	7.20	5.50	3.50	2.50
7810	7.20	5.60	3.70	2.60
7820	7.30	5.70	3.80	2.70
7830	7.00	5.50	3.50	2.40
7840	7.20	5.60	3.70	2.60
7850	7.00	5.50	3.50	2.40
7900	6.90	5.50	3.60	2.50