WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE	GS, OG
COMPANY:	SOUTHERN CALIF. GAS CO.
WELL:	PORTER 69E
FIELD:	ALISO CANYON
COUNTY:	LOS ANGELES
STATE:	CALIFORNIA
LOCATION:	DISTRICT 2
OTHER SVC:	
CB	
API NUMBER:	0403724138
SEC: 28 TWN: 3N RNG: 16W	

PERMANENT DATUM: GROUND LEVEL ELEV:
LOG MEASURED FROM KB 23' 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			1240
EFFECTIVE DEPTH	7836'	CASING PSI			1240
PICKUP DEPTH	7768'	INJECTION RATE		N/A	
BOT LOGGED INT	7768'	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	157.1 F.	OIL Gr.		OIL =	
AT DEPTH	7768.0'	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 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

07:00 AM - ON LOCATION
07:44 AM - RAN IN HOLE
07:44 AM - BEGIN SURVEY
SAND TAG MARKERS: 6818' TOP MP
7148' TOP S1
7420' TOP S4
7489' TOP S8
7686' TOP FREW

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.7	SURFACE	843'				
9.625"	47.0	SURFACE	7289'				
5.500"	17.0	7206'	7836'				
2.875"	6.5	SURFACE	7183'				

STR.	PIPE DIA.	PERFORATIONS
A	5.500"	7220'-7836'.
		PACKERS: 7145.6'-7151'.
		GAS LIFT MANDREL: 7059.4'-7065.9'.
		SLIDING SLEEVES: 7100'-7104'.
		NO-GO: 7136.3'.

Audio Data: c:\data\noise.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
100	9.30	7.00	1.50	0.90
250	9.80	6.10	1.30	0.70
500	10.20	8.40	1.80	1.10
730	10.40	8.50	1.80	1.10
740	8.40	7.00	1.50	0.90
750	9.40	7.70	1.60	1.00
760	10.30	8.50	1.80	1.10
770	10.20	8.40	1.80	1.00
780	10.10	8.30	1.80	1.10
790	10.30	8.50	1.80	1.10
800	10.20	8.40	1.80	1.10
810	10.30	8.50	1.80	1.10
830	10.00	7.90	3.60	2.60
840	10.30	8.50	1.80	1.10
850	10.20	8.40	1.80	1.10
1100	9.80	8.50	5.10	0.80
1350	10.30	8.40	2.00	1.30
1600	11.30	9.30	3.60	1.30
1850	10.20	8.50	2.80	1.10
1870	9.00	7.40	2.10	1.00
1890	10.00	8.10	2.20	1.10
1910	10.10	8.30	2.00	1.10
1930	10.00	8.20	2.00	1.10
1950	9.90	8.30	1.80	1.10
1970	9.90	8.20	1.80	1.10
1990	10.30	8.60	2.90	1.10
2010	10.20	8.40	2.70	1.10
2030	10.20	8.50	2.70	1.10
2050	10.00	8.30	2.80	1.10
2250	8.90	7.20	2.00	1.00
2500	9.70	8.20	2.00	1.10
2750	9.70	8.00	2.00	1.10
3000	9.60	8.10	1.90	1.10
3250	9.50	8.00	1.80	1.10
3500	9.60	7.80	3.20	2.30
3750	9.20	7.80	1.80	1.10
4000	9.40	7.80	1.90	1.10
4250	8.90	7.50	1.80	1.10
4500	9.10	7.70	1.80	1.10
4750	9.00	7.50	2.10	1.40
5000	9.00	7.40	2.10	1.40
5250	9.10	7.70	1.90	1.20
5500	9.00	7.60	1.90	1.20
5750	8.90	7.60	1.90	1.20
6000	8.80	7.40	1.90	1.20
6250	9.80	8.10	2.90	2.00
6500	9.70	7.70	3.00	2.10
6750	9.10	7.70	2.20	1.40
6800	8.70	7.50	1.90	1.20
6810	8.80	7.50	2.00	1.30
6820	8.60	7.40	1.90	1.20
6830	8.50	7.30	1.80	1.20
6840	8.50	7.30	1.90	1.20
6850	8.40	7.30	1.80	1.20
6860	8.40	7.30	1.80	1.20
6870	8.60	7.40	1.90	1.20
6880	8.50	7.30	1.90	1.20
6890	8.40	7.00	1.80	1.10
6900	8.50	7.40	1.90	1.20
6910	8.60	7.30	1.90	1.20
6920	8.50	7.40	1.90	1.20
6930	8.40	7.30	1.80	1.20
6940	8.40	7.30	1.90	1.20
6950	8.40	7.30	1.90	1.20
6960	8.40	7.20	1.80	1.20
6970	9.30	7.90	2.90	2.00
6980	10.80	8.50	3.80	2.80
6990	9.10	7.90	1.90	1.20
7000	10.00	8.20	3.10	2.20
7010	9.60	7.90	3.50	2.60
7020	9.40	7.90	3.00	2.00
7030	9.80	7.80	3.80	2.80
7040	9.70	7.70	4.30	3.20
7050	8.70	7.20	2.50	1.70
7060	8.50	7.40	1.90	1.20
7070	8.40	7.40	1.90	1.20
7080	8.50	7.40	1.90	1.20
7090	8.80	7.70	2.10	1.30
7100	8.70	7.60	1.90	1.20
7110	8.60	7.50	1.90	1.20
7120	8.80	7.70	1.90	1.20
7130	8.80	7.60	1.90	1.20
7140	8.50	7.40	1.90	1.20
7150	9.10	7.90	2.60	2.00
7160	8.70	7.50	1.90	1.20
7170	9.00	7.80	2.60	1.80
7180	8.80	7.70	1.90	1.20
7190	9.00	7.70	2.00	1.20
7200	8.50	7.40	1.90	1.20
7210	8.60	7.50	1.90	1.20
7220	8.40	7.40	1.90	1.20
7230	8.60	7.40	1.90	1.20
7240	8.40	7.40	1.90	1.20
7250	8.70	7.60	1.90	1.20
7300	8.50	7.50	1.90	1.20
7400	8.40	7.50	1.90	1.20
7500	8.40	7.40	1.90	1.20
7550	8.40	7.40	1.90	1.20
7600	8.50	7.50	1.90	1.20
7650	8.70	7.60	1.90	1.20
7700	8.80	7.60	2.10	1.30
7758	9.50	8.20	2.50	1.60