WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

COMPANY:	SOUTHERN CALIF. GAS CO.
WELL:	SESNON FEE 5
FIELD:	ALISO CANYON
COUNTY:	LOS ANGELES
STATE:	CALIFORNIA
LOCATION:	DISTRICT 2
OTHER SVC:	
WELL TYPE	OG
API NUMBER:	0403700651
SEC: 33	TWN: 3N RNG: 16W

BFW

PERMANENT DATUM: GROUND LEVEL ELEV: 2439.40'
LOG MEASURED FROM KB 10.8' ABOVE PERM DATUM
DRILLING MEASURED FROM

-ELEVATIONS-
KB: 2450.20 Ft.
DF: Ft.
GL: 2439.40 Ft.

DATE LOG RAN	04-18-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			412
EFFECTIVE DEPTH	9311' BP	CASING PSI			985
PICKUP DEPTH	9270'	INJECTION RATE		N/A	
BOT LOGGED INT	9270'	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	3140'				
WELL STATUS	STATIC			PRODUCTION DATA	
MAX TEMPERATURE	194.9 F.	OIL Gr.	N/A	OIL =	N/A
AT DEPTH	9270.0'	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	N/A				

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

06:30AM - ON LOCATION
08:06AM - RAN IN HOLE
08:08AM - BEGIN SURVEY
11:03AM - PULL OUT OF HOLE
11:30AM - OFF LOCATION

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	837'				
7.000"	26.0	SURFACE	9526'				
2.875"	6.50	SURFACE	9295'				

STR.	PIPE DIA.	PERFORATIONS
A	7.000"	WSO: 9172', 9318', 9399'., 9224'-9524'.
		ANCHOR/CATCHER: 9012.7'-9014.07'

Audio Data: C:\data\NOISE.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ	COMMENTS
100	8.90	4.50	4.30	3.10	
300	6.80	4.40	4.30	3.10	
320	7.30	4.50	4.30	3.10	
340	6.00	4.30	4.20	3.00	
360	6.30	4.40	4.20	3.00	
380	6.20	4.90	4.70	3.50	
400	5.80	4.30	4.20	2.90	
420	6.20	4.30	4.20	3.00	
440	5.70	4.30	4.20	3.00	
460	5.90	4.30	4.20	3.00	
480	6.10	4.40	4.20	3.00	
500	6.10	4.30	4.20	3.00	
740	4.70	4.30	4.20	2.90	
760	5.30	4.30	4.20	3.00	
780	4.60	4.30	4.20	2.90	
800	4.80	4.30	4.20	3.00	
820	4.70	4.30	4.20	3.00	
840	4.60	4.30	4.20	3.00	
860	5.20	4.60	4.40	3.00	
880	4.80	4.50	4.40	3.20	
900	4.40	4.30	4.20	3.00	
1150	4.90	4.40	4.20	3.00	
1400	8.90	6.90	5.30	2.90	
1650	6.30	5.20	4.50	2.90	
1900	5.30	4.70	4.30	3.00	
2150	5.10	4.50	4.20	3.00	
2400	4.90	4.40	4.20	2.90	
2650	4.90	4.50	4.30	3.00	
2900	7.60	5.50	4.90	3.50	
3150	7.60	4.80	4.50	3.20	OUT OF FLUID
3400	5.00	4.50	4.20	3.00	
3650	4.80	4.50	4.30	3.10	
3900	5.10	4.40	4.20	3.00	
4150	5.40	4.50	4.30	3.00	
4400	5.00	4.30	4.20	3.00	
4650	4.60	4.30	4.10	2.90	
4900	4.70	4.30	4.10	2.90	
5150	4.50	4.20	4.10	2.90	
5400	4.60	4.20	4.10	2.90	
5650	4.60	4.30	4.10	2.90	
5900	5.00	4.40	4.10	2.90	
6150	4.40	4.20	4.10	2.90	
6400	5.30	4.40	4.10	2.90	
6650	4.80	4.30	4.10	2.90	
6900	5.30	4.30	4.10	2.90	
7150	5.60	4.40	4.10	2.90	
7400	6.30	4.70	4.10	2.90	
7650	6.00	4.40	4.10	2.90	
7900	6.60	4.60	4.10	2.90	
8150	7.10	4.40	4.10	2.90	
8400	7.70	4.60	4.10	2.90	
8650	9.60	4.70	4.10	2.90	
8900	9.40	4.90	4.10	2.90	
8920	10.60	5.20	4.10	2.90	
8930	10.70	4.80	4.10	2.90	
8940	11.30	4.90	4.10	2.80	
8950	11.60	5.00	4.10	2.90	
8960	10.70	4.90	4.10	2.90	
8970	11.70	5.20	4.10	2.90	
8980	12.10	5.20	4.10	2.90	
8990	13.10	5.40	4.20	2.90	
9000	12.40	5.10	4.10	2.90	
9010	12.80	5.20	4.10	2.90	
9020	12.30	5.50	4.10	2.80	
9030	13.20	5.50	4.20	2.90	
9040	12.70	5.40	4.20	2.80	
9050	12.50	5.50	4.10	2.90	
9060	12.90	5.80	4.10	2.80	
9070	13.10	5.90	4.20	2.90	
9080	12.90	5.30	4.20	2.90	
9090	13.30	5.40	4.20	2.90	
9100	13.00	5.10	4.20	2.80	
9110	12.70	5.10	4.20	2.90	
9120	12.40	5.20	4.30	2.90	
9130	12.80	5.20	4.20	2.80	
9140	11.60	5.40	4.10	2.90	
9150	11.80	5.90	4.10	2.80	
9160	11.80	6.30	4.10	2.80	
9170	11.60	6.40	4.20	2.90	
9180	11.40	6.80	4.30	2.80	
9190	10.80	6.80	4.30	2.80	
9200	9.70	5.90	4.20	2.90	
9210	9.50	5.70	4.20	2.90	
9270	8.20	4.90	4.20	2.90	

1400 COLLAR LOCATOR [MV] 2300

65 TEMPERATURE [DEG F] 85

0.02 AUDIO DETECTION LOG [MV] 200

DIFFERENTIAL TEMPERATURE [DEG F]