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WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

FILING NO.

COMPANY: SOUTHERN CALIF. GAS CO.
WELL: PORTER 37
FIELD: ALISO CANYON
COUNTY: LOS ANGELES
STATE: CALIFORNIA

LOCATION:
DISTRICT 2
OTHER SVC:

API NUMBER: 0403700724
SEC: 27 TWN: 3N RNG: 16W

NP

PERMANENT DATUM: GROUND LEVEL ELEV: 1900.00 FT.
LOG MEASURED FROM KB 7' ABOVE PERM DATUM
DRILLING MEASURED FROM

-ELEVATIONS-
KB: 1907.00 Ft.
DF: Ft.
GL: 1900.00 Ft.

			PRESSURE	FLOWING	INJECTION	SHUT-IN
DATE LOG RAN	09-24-2012					
RUN NUMBER	ONE		TUBING PSI			2665
EFFECTIVE DEPTH	7740'		CASING PSI			2665
PICKUP DEPTH	N/A		INJECTION RATE		N/A	
BOT LOGGED INT	7640'		OBSERVED RATE		N/A	
TOP LOGGED INT	50'		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	173.4 F		OIL Gr.		OIL =	
AT DEPTH	7593.0'		GAS Gr.		GAS=	
TEMPERATURE SENS	1 F/DIV		MPP		BHP =	
LOGGING SPEED	100 FPM				WATER=	
RECORDED BY	S. MACIAS					
WITNESSED BY	N/A					
ENGINEER	A. KARGAR					
DEPTH CORRELATION	N/A					

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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

SURVEY INDICATES NO ABOVE NORMAL ACTIVITY.
PLEASE NOTE: STOPPED AT 7640' DUE TO OPEN HOLE FROM 7640'-7740'.
FIELD INV. 77.63
07:00AM ON LOCATION
08:08AM RAN IN HOLE
08:09AM BEGIN SURVEY
12:00PM PULL OUT OF HOLE
01:00PM OFF LOCATION
SAND TAG MARKERS: 7648' TOP S4
7774' TOP S8

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	520'	2.375"	4.7	SURFACE	7438'
7.000"	23	SURFACE	7640'				
5.500"	20	SURFACE	7434'				
5.000"	18	7592'	7740'				

STR.	PIPE DIA.	PERFORATIONS
A	5.000"	7640'-7738'.
		PACKERS: 7434'-7436'.
		MANDRELS: 7326.5'-7332.82'.
		SLEEVES: 7365.3'-7369.9'.
		NO-GO: 7400.6'.

Audio Data: c:\data\NOISE.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
50	16.40	12.30	5.00	1.30
200	16.60	12.50	5.10	1.30
400	16.50	12.40	5.00	1.30
410	16.50	12.40	5.00	1.30
420	16.40	12.40	5.00	1.30
430	16.20	12.30	5.00	1.30
440	16.50	12.50	5.00	1.40
450	16.50	12.50	5.10	1.30
460	16.60	12.40	5.00	1.30
470	16.30	12.20	5.00	1.30
475	16.50	12.40	5.00	1.30
480	16.50	12.30	5.00	1.30
485	16.30	12.30	5.00	1.30
490	16.30	12.30	5.00	1.40
495	16.60	12.40	5.10	1.30
500	16.50	12.30	5.00	1.30
505	16.40	12.50	5.00	1.30
510	16.60	12.50	5.10	1.40
515	16.50	12.30	5.00	1.30
520	16.30	12.30	5.00	1.30
525	16.50	12.40	5.10	1.30
530	16.30	12.40	5.00	1.30
535	16.50	12.50	5.10	1.40
540	16.40	12.40	5.00	1.30
550	16.30	12.20	5.00	1.30
560	16.50	12.60	5.00	1.30
570	16.30	12.40	5.00	1.30
580	16.40	12.50	5.00	1.30
590	16.30	12.30	5.00	1.30
600	16.50	12.50	5.00	1.30
610	16.50	12.40	5.00	1.30
620	16.30	12.30	5.00	1.30
630	16.50	12.20	5.10	1.30
640	16.40	12.40	5.00	1.30
650	16.30	12.40	5.00	1.30
670	16.40	12.40	5.00	1.30
690	16.50	12.40	5.10	1.30
710	16.70	12.50	5.10	1.40
730	16.30	12.40	5.00	1.30
750	16.40	12.50	5.00	1.30
950	16.30	12.20	5.00	1.30
1150	16.20	12.00	5.00	1.30
1350	16.10	12.20	5.00	1.30
1550	16.10	12.10	5.00	1.30
1750	16.20	12.20	5.00	1.40
1950	16.00	12.00	5.00	1.30
2150	16.30	12.50	5.10	1.40
2350	16.40	12.60	5.10	1.40
2550	16.10	11.90	5.10	1.50
2750	16.00	11.90	5.00	1.40
2950	16.00	12.20	5.00	1.40
3150	16.10	12.00	5.00	1.40
3350	15.90	12.00	5.00	1.40
3550	16.10	12.10	5.10	1.40
3750	16.00	12.10	5.10	1.40
3950	15.90	12.00	5.10	1.40
4150	15.80	11.80	5.00	1.40
4350	15.80	12.00	5.00	1.40
4550	16.00	12.00	5.10	1.40
4750	15.60	11.90	5.00	1.40
4950	15.40	11.90	5.00	1.40
5150	15.30	11.80	5.00	1.40
5350	15.40	11.60	4.90	1.30
5550	15.20	11.40	5.00	1.40
5750	15.20	11.50	4.90	1.30
5950	15.30	11.40	5.00	1.40
6150	15.10	11.60	5.00	1.40
6155	15.10	11.50	5.00	1.40
6160	15.20	11.60	5.00	1.40
6165	15.10	11.60	5.00	1.30
6170	15.10	11.60	5.00	1.40
6175	15.20	11.50	5.00	1.40
6180	15.30	11.80	5.00	1.40
6185	15.40	11.90	5.00	1.40
6190	15.40	11.70	5.00	1.40
6195	15.30	11.70	5.00	1.40
6200	15.40	11.70	5.00	1.40
6205	15.70	11.90	5.20	1.70
6210	15.40	11.60	5.00	1.40
6215	15.30	11.60	5.00	1.40
6220	15.50	11.90	5.00	1.40
6225	15.40	11.80	5.10	1.40
6230	15.50	11.90	5.00	1.40
6235	15.40	11.60	5.10	1.40
6240	15.60	11.80	5.10	1.40
6245	15.40	11.70	5.10	1.40
6250	15.50	11.70	5.10	1.40
6255	15.30	11.90	5.00	1.40
6260	15.50	11.80	5.00	1.40
6265	15.20	11.70	5.00	1.40
6270	15.30	11.70	5.00	1.40
6275	15.30	11.70	5.00	1.40
6280	15.30	11.70	5.00	1.40
6285	15.30	11.80	5.00	1.40
6290	15.30	11.90	5.00	1.40
6295	15.30	11.80	5.00	1.40
6300	15.20	11.70	5.00	1.40
6305	15.30	11.70	5.10	1.40
6310	15.50	11.80	5.00	1.40
6315	15.50	11.70	5.10	1.50
6320	15.50	11.80	5.00	1.40
6325	15.50	11.90	5.10	1.50
6330	15.50	11.70	5.00	1.40
6335	15.50	11.80	5.00	1.40
6340	15.30	11.90	5.00	1.40
6345	15.60	11.80	5.10	1.40
6350	15.60	12.00	5.00	1.50
6355	15.40	12.00	5.00	1.40
6360	15.30	11.70	5.00	1.40
6365	15.50	11.80	5.00	1.40
6370	15.40	11.80	5.00	1.40
6375	15.50	11.80	5.00	1.40
6380	15.30	11.60	5.00	1.40
6385	15.50	12.00	5.10	1.50
6390	15.40	11.80	5.00	1.40
6395	15.30	11.70	5.00	1.40
6400	15.40	11.70	5.00	1.40
6450	15.40	11.70	5.00	1.40
6500	15.50	11.80	5.10	1.50
6550	15.30	11.80	5.00	1.40
6600	15.40	11.60	5.00	1.40
6650	15.30	11.70	5.00	1.40
6700	15.40	11.80	5.10	1.50
6750	15.40	11.70	5.00	1.50
6800	15.50	11.50	5.00	1.50
6850	15.30	11.70	5.10	1.40
6900	15.40	11.70	5.00	1.40
6950	15.30	11.70	5.00	1.50
7000	15.20	11.60	5.00	1.50
7050	15.10	11.60	5.00	1.40
7100	15.30	11.60	5.00	1.50
7150	15.30	11.50	5.10	1.50
7200	15.30	11.60	5.10	1.50
7250	15.20	11.60	5.00	1.40
7300	15.20	11.70	5.10	1.50
7350	15.10	11.40	5.10	1.40
7355	15.10	11.70	5.10	1.50
7360	15.10	11.60	5.40	1.90
7365	15.10	11.60	5.00	1.40
7370	15.10	11.30	5.00	1.50
7375	15.00	11.40	5.10	1.40
7380	15.10	11.30	5.00	1.50
7385	15.10	11.40	5.00	1.40
7390	15.10	11.50	5.10	1.40
7395	15.10	11.30	5.10	1.40
7400	15.10	11.40	5.00	1.50
7405	15.00	11.40	5.00	1.50
7410	15.00	11.30	5.00	1.40
7415	15.10	11.30	5.00	1.40
7420	15.00	11.30	5.10	1.60
7425	15.00	11.30	5.10	1.40
7430	15.10	11.30	5.10	1.50
7435	15.10	11.50	5.10	1.40
7440	15.00	11.20	5.10	1.40
7445	15.10	11.40	5.10	1.40
7450	14.80	11.20	5.10	1.40
7460	14.90	11.30	5.10	1.40
7470	14.80	11.30	5.00	1.40
7480	14.80	11.00	5.10	1.40
7490	14.90	11.10	5.00	1.40
7500	14.80	11.10	5.00	1.40
7510	14.70	11.30	5.10	1.50
7520	14.80	11.00	5.10	1.40
7530	14.90	11.10	5.10	1.50
7540	14.70	10.90	5.10	1.40
7550	14.70	11.00	5.10	1.40
7560	14.80	10.90	5.10	1.40
7570	14.70	10.90	5.00	1.50
7580	14.70	10.70	5.00	1.40
7590	14.70	10.90	5.10	1.40
7600	14.60	10.70	5.00	1.40
7610	14.60	10.60	5.10	1.40
7620	14.60	10.70	5.10	1.40
7630	14.70	10.90	5.10	1.40
7640	14.80	11.30	5.50	2.40

1525 COLLAR LOCATOR 1875

70 TEMPERATURE (DEG F) 90

0.02 AUDIO DETECTION LOG (MV) 200

-2 DIFFERENTIAL TEMPERATURE (DEG F) 2