WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

COMPANY:	SOUTHERN CALIF. GAS CO.		
WELL:	WARD 3		
FIELD:	ALISO CANYON		
COUNTY:	LOS ANGELES	STATE:	CALIFORNIA
LOCATION: DISTRICT 2		OTHER SVC:	
API NUMBER: 0403700192			
SEC: 27	TWN: 3N	RNG: 16W	

WELL TYPE: OB

AJ

PERMANENT DATUM: GROUND LEVEL ELEV:
LOG MEASURED FROM MAT 0' ABOVE PERM DATUM
DRILLING MEASURED FROM

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

DATE LOG RAN	04-01-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1488
EFFECTIVE DEPTH	6357'	CASING PSI			800
PICKUP DEPTH	6348'	INJECTION RATE		N/A	
BOT LOGGED INT	6348'	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	160.6 F	OIL Gr.		OIL =	
AT DEPTH	6342.5'	GAS Gr.		GAS=	
TEMPERATURE SENS	1 F/DIV.	MPP		BHP =	
LOGGING SPEED	100 FPM			WATER=	
RECORDED BY	D. PROKUSKI				
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

6:30AM ON LOCATION
7:00AM RAN IN HOLE
7:15AM BEGIN SURVEY
10:30AM PULL OUT OF HOLE
10:45AM OFF LOCATION

PLEASE NOTE: WELL HAS OIL & GAS IN IT.
SAND TAG MARKERS: 7100' TOP S4
7203' TOP S8

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
11.75"	47	SURFACE	1660'				
7.000"	26	SURFACE	7100'				
5.50"	18	7030'	7500'				
2.875"	6.5	SURFACE	6143'				

STR.	PIPE DIA.	PERFORATIONS
A	7.000"	WSO: 5900' WSO: 6095' WSO: 6096' , 5920'-6030'.
	5.000"	SLOTTED: 7104'-7493'.
		PACKERS: 6130'-6135'.
		GAS LIFT MANDRELS: 6064'-6069'.
		NO-GO: 6098'.
		DV COLLARS: 6163'.
		BRIDGE PLUG: 6900'.

Audio Data: C:\data\NOISE.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
100	14.20	8.00	7.20	5.50
200	9.90	4.10	3.40	2.10
220	8.20	4.40	4.00	2.70
240	8.20	3.80	3.30	2.10
260	8.80	3.60	3.30	2.20
280	9.30	3.90	3.30	2.20
300	8.20	4.30	3.90	2.70
320	6.00	3.70	3.40	2.30
340	10.20	4.70	3.90	2.60
360	7.20	3.80	3.50	2.20
380	10.00	4.90	4.10	2.60
400	10.50	6.10	5.20	3.50
420	9.10	4.60	4.10	2.70
440	18.10	8.20	5.80	3.40
460	17.30	9.50	6.40	3.90
480	10.10	4.40	3.70	2.30
500	13.30	6.70	5.60	3.90
520	23.50	10.80	7.50	4.40
540	17.20	5.80	4.60	2.90
560	15.10	7.10	5.40	3.20
580	15.20	5.30	4.30	2.80
600	15.50	6.30	5.20	3.30
620	13.10	6.10	5.50	4.60
640	20.00	7.70	6.10	3.70
660	16.70	8.20	7.20	5.00
680	14.40	7.40	6.50	4.80
700	20.70	8.20	5.70	3.90
720	21.30	8.00	5.70	3.60
740	18.80	9.70	7.50	4.70
760	20.50	7.20	5.60	3.50
780	24.70	11.40	7.90	4.80
800	19.10	7.40	5.60	3.60
820	20.80	7.90	5.60	3.50
840	20.30	7.50	5.60	3.70
860	20.50	8.10	5.90	3.80
880	23.70	11.40	8.40	6.10
900	20.20	6.30	4.50	2.70
920	14.90	4.50	3.70	2.30
940	25.30	9.10	6.70	4.60
960	23.90	5.70	4.20	2.50
980	18.70	6.10	4.40	2.80
1000	27.20	10.10	7.10	4.50
1020	23.20	10.80	8.00	5.00
1040	23.50	9.00	6.90	4.40
1060	21.20	8.10	6.30	4.20
1080	23.90	8.70	6.70	4.60
1100	18.90	5.30	3.90	2.40
1120	19.80	7.80	5.70	3.50
1140	24.50	11.90	8.20	5.30
1160	15.20	5.80	4.40	2.80
1180	21.10	12.30	8.30	5.20
1200	14.90	4.80	3.90	2.40
1220	17.80	6.90	4.90	3.00
1240	15.60	6.70	5.30	3.50
1260	16.70	6.50	5.20	3.40
1280	16.60	8.10	6.30	4.10
1300	16.20	5.30	4.10	2.50
1320	16.80	8.20	6.30	4.40
1340	16.30	7.90	5.90	4.10
1360	17.80	8.10	6.00	3.90
1380	19.70	7.30	5.30	3.20
1400	18.50	7.70	5.90	3.90
1420	17.00	6.70	5.40	3.60
1440	11.70	5.90	4.70	3.30
1460	14.70	6.30	4.80	3.20
1480	16.30	7.80	5.90	4.00
1500	15.50	7.20	5.70	3.80
1520	18.80	8.00	6.00	4.10
1550	16.00	8.30	6.60	4.70
1600	14.30	5.90	4.50	2.90
1700	14.90	5.80	4.50	2.90
1800	9.80	4.70	3.90	2.50
1900	9.00	5.10	4.40	3.00
1920	9.00	4.90	4.10	2.80
1940	7.90	4.50	3.80	2.60
1960	7.50	4.70	4.10	2.80
1980	7.30	4.20	3.70	2.50
2000	6.60	4.20	3.80	2.50
2020	6.50	4.20	3.70	2.40
2040	6.00	4.10	3.60	2.30
2060	6.30	3.90	3.50	2.40
2080	6.00	3.90	3.50	2.30
2100	5.80	3.70	3.40	2.20
2120	6.20	4.00	3.60	2.40
2140	5.60	3.70	3.40	2.20
2160	6.70	4.10	3.70	2.40
2180	5.80	3.80	3.60	2.30
2200	5.20	3.70	3.40	2.20
2220	4.70	3.50	3.20	2.00
2240	4.30	3.40	3.20	2.00
2260	4.00	3.40	3.20	2.00
2280	3.60	3.30	3.10	2.00
2300	3.50	3.30	3.10	2.00
2320	3.50	3.30	3.10	2.00
2340	3.40	3.20	3.10	1.90
2360	3.40	3.30	3.10	1.90
2380	3.40	3.20	3.10	1.90
2400	3.30	3.20	3.10	1.90
2500	3.40	3.30	3.10	2.00
2520	3.40	3.30	3.10	2.00
2540	3.40	3.20	3.10	2.00
2560	3.40	3.30	3.10	2.00
2580	3.40	3.30	3.10	2.00
2600	3.30	3.20	3.10	2.00
2800	3.30	3.20	3.10	2.00
2820	3.30	3.20	3.10	2.00
2840	3.40	3.30	3.10	2.00
2860	3.30	3.20	3.10	2.00
2880	3.40	3.30	3.20	2.00
2900	3.40	3.30	3.20	2.00
2920	3.40	3.30	3.20	2.10
2940	3.40	3.30	3.20	2.10
2960	3.40	3.30	3.20	2.10
2980	3.40	3.30	3.20	2.10
3000	3.40	3.30	3.20	2.10
3020	3.40	3.30	3.20	2.00
3040	3.40	3.30	3.20	2.00
3060	3.40	3.30	3.20	2.00
3080	3.40	3.30	3.20	2.00
3100	3.40	3.30	3.20	2.00
3250	3.40	3.30	3.20	2.00
3500	3.40	3.30	3.20	2.00
3750	3.40	3.30	3.20	2.00
4000	3.50	3.30	3.20	2.00
4280	3.50	3.30	3.20	2.10
4500	3.70	3.40	3.30	2.10
4750	3.80	3.40	3.20	2.00
5000	3.90	3.50	3.20	2.00
5250	3.70	3.40	3.30	2.30
5500	3.70	3.50	3.40	2.30
5750	3.80	3.40	3.30	2.10
5800	3.70	3.40	3.30	2.10
5810	3.80	3.40	3.30	2.10
5820	3.70	3.40	3.30	2.10
5830	3.70	3.40	3.20	2.10
5840	3.90	3.40	3.30	2.10
5850	3.70	3.40	3.30	2.10
5860	3.80	3.40	3.30	2.10
5870	3.90	3.40	3.30	2.10
5880	4.20	3.50	3.30	2.10
5890	3.70	3.40	3.20	2.10
5900	4.10	3.50	3.30	2.20
5910	4.00	3.40	3.30	2.10
5920	4.00	3.50	3.30	2.10
5930	3.70	3.40	3.30	2.10
5940	4.00	3.40	3.30	2.10
5950	3.80	3.40	3.30	2.10
5960	4.20	3.50	3.30	2.10
5970	3.80	3.40	3.30	2.10
5980	3.80	3.40	3.30	2.10
5990	4.00	3.40	3.20	2.10
6000	3.80	3.40	3.30	2.10
6010	4.00	3.50	3.30	2.10
6020	4.10	3.50	3.30	2.10
6030	4.20	3.50	3.30	2.10
6040	4.30	3.50	3.30	2.10
6050	3.80	3.40	3.30	2.10
6060	4.00	3.40	3.30	2.10
6070	4.10	3.40	3.30	2.10
6080	4.30	3.50	3.30	2.10
6090	4.20	3.50	3.30	2.10
6100	4.20	3.50	3.30	2.10
6110	4.20	3.50	3.30	2.10
6120	4.10	3.50	3.30	2.10
6130	4.60	3.70	3.30	2.10
6140	4.20	3.50	3.30	2.10
6150	3.90	3.50	3.30	2.10
6160	3.80	3.40	3.30	2.10
6170	4.40	3.60	3.30	2.10
6180	4.20	3.50	3.20	2.00
6190	4.50	3.70	3.30	2.10
6200	4.60	3.70	3.30	2.00
6210	4.40	3.60	3.30	2.10
6220	4.00	3.60	3.30	2.10
6230	4.60	3.80	3.30	2.10
6240	5.10	4.00	3.40	2.10
6250	4.80	3.80	3.50	2.40
6260	4.80	3.60	3.30	2.10
6270	4.60	3.60	3.30	2.10
6280	4.80	3.60	3.30	2.10
6290	4.60	3.70	3.40	2.30
6300	5.10	3.80	3.40	2.30
6310	5.40	4.10	3.60	2.40
6320	4.60	3.70	3.40	2.20
6330	5.10	3.70	3.30	2.20
6340	4.80	3.90	3.70	2.50
6348	3.80	3.40	3.30	2.10