WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE	GS		
COMPANY:	SOUTHERN CALIF. GAS CO.		
WELL:	PORTER 47		
FIELD:	ALISO CANYON		
COUNTY:	LOS ANGELES	STATE:	CALIFORNIA
LOCATION:	DISTRICT 2	OTHER SVC:	
VS	API NUMBER: 0403700734		
	SEC: 28 TWN: 3N RNG: 16W		

PERMANENT DATUM: GROUND LEVEL ELEV: 2489 FT.
LOG MEASURED FROM KB 7' ABOVE PERM DATUM
DRILLING MEASURED FROM

-ELEVATIONS-
KB: 2496 Ft.
DF: Ft.
GL: 2489 Ft.

DATE LOG RAN	03-29-2016	PRESSURE		FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI				1101
EFFECTIVE DEPTH	8364'	CASING PSI				1104
PICKUP DEPTH	8306'	INJECTION RATE			N/A	
BOT LOGGED INT	8306'	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	181.2 F.	OIL Gr.	N/A	OIL =	N/A	
AT DEPTH	8306.0'	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	D.PROKUSKI					
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
07:30 AM - RAN IN HOLE
07:35 AM - BEGIN SURVEY
11:00 PM - PULL OUT OF HOLE
11:15 PM - OFF LOCATION
SAND TAG MARKERS: 7850' TOP MP
8070' TOP S1
8155' TOP S4
8250' TOP S8

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	61	SURFACE	516'	2.375"	4.7	6880'	8159'
7.000"	30	SURFACE	7005'				
5.000"	18	6893'	8364'				
2.875"	6.5	SURFACE	6880'				

STR.	PIPE DIA.	PERFORATIONS
A	5.000"	7328'-7329', 8136'-8138', 8159'-8189', 8200'-8223', 8270'-8276', 8330'-8343'.
		PACKERS: 6887.8'-6892', 8153'-8159'.
		SLEEVES: 6841.4'-6849.05'.
		NO-GO: 6868.9'.
		J LATCH: 6880.3'-6887.79'.

Audio Data: C:\data\NOISE.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
100	7.60	5.70	3.70	2.60
200	7.50	5.60	3.60	2.40
220	8.70	5.70	3.70	2.50
240	7.70	5.60	3.60	2.70
260	7.70	5.70	3.70	2.60
280	7.80	5.70	3.70	2.60
300	7.80	5.70	3.70	2.70
320	8.40	5.80	3.80	2.70
340	7.80	5.60	3.60	2.50
360	7.60	5.70	3.80	2.70
500	7.50	5.60	3.60	2.50
600	7.60	5.60	3.70	2.60
620	7.60	5.60	3.60	2.50
640	7.60	5.60	3.60	2.50
660	7.50	5.50	3.60	2.50
680	7.70	5.60	3.60	2.50
700	7.60	5.50	3.60	2.50
720	7.50	5.50	3.60	2.40
740	7.60	5.50	3.60	2.40
760	7.40	5.50	3.60	2.50
780	7.40	5.50	3.50	2.40
800	7.50	5.50	3.60	2.40
1000	7.50	5.50	3.60	2.50
1200	7.50	5.40	3.50	2.40
1220	7.40	5.40	3.50	2.40
1240	7.40	5.40	3.50	2.40
1260	7.60	5.50	3.60	2.50
1280	7.30	5.40	3.50	2.40
1300	7.40	5.40	3.50	2.40
1320	7.50	5.50	3.50	2.40
1340	7.50	5.50	3.60	2.40
1360	7.60	5.40	3.50	2.40
1380	7.30	5.40	3.50	2.40
1400	7.60	5.50	3.50	2.40
1420	7.60	5.40	3.50	2.40
1440	7.50	5.40	3.50	2.40
1460	7.50	5.50	3.50	2.40
1480	7.50	5.50	3.50	2.40
1500	7.40	5.40	3.50	2.40
1520	7.40	5.40	3.50	2.40
1540	7.40	5.50	3.70	2.50
1560	7.50	5.40	3.50	2.40
1580	7.30	5.50	3.50	2.40
1600	7.40	5.50	3.50	2.40
1620	7.40	5.40	3.50	2.40
1640	7.30	5.40	3.50	2.40
1660	7.40	5.40	3.50	2.30
1680	7.50	5.50	3.60	2.40
1700	7.40	5.40	3.50	2.30
1720	7.50	5.50	3.50	2.30
1740	7.30	5.40	3.50	2.40
1760	7.60	5.50	3.60	2.30
2000	7.50	5.50	3.60	2.50
2250	7.20	5.40	3.50	2.30
2500	7.30	5.40	3.50	2.30
2750	7.30	5.30	3.40	2.20
3000	7.20	5.30	3.50	2.30
3250	7.10	5.40	3.50	2.40
3500	7.10	5.30	3.50	2.40
3750	7.00	5.30	3.50	2.30
4000	7.00	5.20	3.40	2.30
4260	7.00	5.30	3.50	2.40
4280	6.90	5.30	3.50	2.30
4300	7.00	5.40	3.60	2.40
4320	7.10	5.30	3.50	2.40
4340	6.90	5.30	3.40	2.30
4360	6.90	5.30	3.50	2.40
4380	6.80	5.30	3.50	2.40
4400	6.80	5.30	3.50	2.40
4420	6.90	5.30	3.50	2.40
4440	6.90	5.40	3.50	2.40
4460	6.90	5.50	3.70	2.50
4500	6.90	5.40	3.50	2.40
4750	6.80	5.40	3.50	2.40
5000	6.70	5.30	3.40	2.30
5250	6.70	5.40	3.60	2.50
5500	6.60	5.30	3.50	2.40
5750	6.60	5.30	3.40	2.30
6000	6.70	5.30	3.40	2.30
6250	6.50	5.30	3.50	2.40
6500	6.80	5.30	3.40	2.30
6750	6.40	5.30	3.40	2.30
6800	6.40	5.30	3.40	2.30
6810	6.40	5.30	3.40	2.30
6820	6.50	5.30	3.40	2.30
6830	6.40	5.30	3.40	2.30
6840	6.50	5.40	3.60	2.50
6850	6.40	5.30	3.40	2.30
6860	6.50	5.30	3.50	2.40
6870	6.40	5.30	3.40	2.30
6880	6.30	5.30	3.40	2.30
6890	6.40	5.30	3.40	2.30
6900	6.30	5.30	3.40	2.30
6920	6.30	5.30	3.40	2.30
6940	6.50	5.30	3.40	2.30
6960	6.30	5.30	3.40	2.30
6980	6.50	5.30	3.40	2.40
7000	6.30	5.30	3.40	2.30
7020	6.60	5.50	3.60	2.60
7040	6.70	5.30	3.40	2.30
7060	6.40	5.40	3.40	2.30
7250	6.40	5.40	3.50	2.40
7500	7.00	5.60	3.70	2.60
7750	6.70	5.70	3.90	2.50
7760	6.70	5.70	3.80	2.50
7770	6.70	5.70	3.90	2.60
7780	6.90	5.70	4.00	2.50
7790	6.90	5.80	3.90	2.60
7800	7.10	5.90	4.10	2.70
7810	6.80	5.70	3.90	2.60
7820	6.70	5.70	3.90	2.50
7830	6.80	5.80	4.00	2.60
7840	7.10	6.00	4.20	2.80
7850	6.80	5.80	3.90	2.60
7860	6.80	5.80	4.00	2.60
7870	6.80	5.80	4.00	2.60
7880	6.80	5.80	3.90	2.50
7890	6.80	5.90	4.00	2.60
7900	7.10	6.00	4.10	2.70
7910	6.90	5.90	4.00	2.60
7920	7.00	6.00	4.20	2.70
7930	6.90	5.90	4.20	2.70
7940	7.00	6.00	4.20	2.70
7950	6.80	5.90	4.10	2.80
7960	6.90	5.90	4.20	2.70
7970	7.30	6.30	4.40	3.00
7980	7.10	6.00	4.20	2.80
7990	7.00	6.00	4.30	2.80
8000	7.30	6.30	4.50	2.80
8010	7.20	6.20	4.40	2.90
8020	7.20	6.30	4.60	2.90
8030	7.30	6.30	4.50	2.90
8040	7.10	6.10	4.30	2.80
8050	7.30	6.30	4.50	2.90
8060	7.30	6.30	4.50	2.80
8070	7.40	6.40	4.60	2.90
8080	7.20	6.30	4.50	2.90
8090	7.20	6.30	4.40	2.80
8100	7.40	6.40	4.60	2.80
8110	7.50	6.50	4.70	3.00
8120	7.50	6.60	4.80	3.00
8130	7.60	6.70	4.80	2.90
8140	7.50	6.50	4.70	3.00
8150	7.70	6.70	5.00	3.00
8160	7.60	6.70	4.80	2.90
8170	8.10	7.20	5.40	3.10
8180	7.10	6.30	4.60	3.00
8190	7.40	6.50	4.90	3.30
8200	7.40	6.50	4.90	3.20
8210	7.40	6.50	4.70	3.20
8220	7.80	6.70	5.00	3.40
8230	7.70	6.70	4.90	3.50
8240	44.80	33.20	28.00	20.20
8250	67.80	36.90	28.40	18.70
8275	114.90	98.90	95.80	81.50
8306	24.60	14.40	11.10	7.70