WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

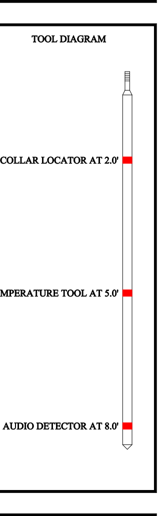
WELL TYPE GS	COMPANY: SOUTHERN CALIF. GAS CO.		
	WELL: STANDARD SESNON 31		
	FIELD: ALISO CANYON		
	COUNTY: LOS ANGELES	STATE: CALIFORNIA	
	LOCATION: DISTRICT 2	OTHER SVC:	
VS	API NUMBER: 0403700781		
	SEC: 28 TWN: 3N RNG: 16W		
PERMANENT DATUM: GROUND LEVEL ELEV: 2517 FT.		-ELEVATIONS-	
LOG MEASURED FROM KB 10' ABOVE PERM DATUM		KB: 2527 Ft.	
DRILLING MEASURED FROM		DF: Ft.	
		GL: 2517 Ft.	

		PRESSURE	FLOWING	INJECTION	SHUT-IN
DATE LOG RAN	04-06-2016				
RUN NUMBER	ONE	TUBING PSI			0
EFFECTIVE DEPTH	9130'	CASING PSI			0
PICKUP DEPTH	8802'	INJECTION RATE		N/A	
BOT LOGGED INT	8802'	OBSERVED RATE		N/A	
TOP LOGGED INT	100'	R/A SOURCE		N/A	
TYPE OF INJECT	NONE	ACTIVITY		N/A	
FLUID IN WELL	WATER	HALF LIFE		N/A	
FLUID LEVEL	310'				
WELL STATUS	STATIC	PRODUCTION DATA			
MAX TEMPERATURE	186.8 F.	OIL Gr.	N/A	OIL =	N/A
AT DEPTH	8767.0'	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	N/A				

Equipment Data

Collar Locator	1.375"		
Temperature Tool	1.375"		
Audio Detector	1.375"		

TOOL DIAGRAM



Remarks/Survey Results

07:30 AM - ON LOCATION
07:40 AM - RAN IN HOLE
07:45AM - BEGIN SURVEY
11:00 AM - PULL OUT OF HOLE
11:15 AM - OFF LOCATION

SAND TAG MARKERS: 8790' TOP S1
8855' TOP S4
8992' TOP S8

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
11.750"	47	SURFACE	1708'				
7.000"	23	SURFACE	9130'				
2.875"	6.5	SURFACE	8824'				

STR.	PIPE DIA.	PERFORATIONS
A	7.000"	WSO: 8849', 8850'-8920', 8935'-8980',
		8995'-9095', 9105'-9128'.
		PACKERS: 8817'-8821'.
		MANDRELS: 8729'-8733'.
		SLEEVES: 8775'-8780'.
		NO-GO: 8806'.

Audio Data: c:\data\NOISE.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
100	16.80	6.60	4.10	1.50
250	13.70	7.50	5.10	2.30
500	13.30	6.60	4.20	1.70
750	13.10	6.50	4.10	1.50
900	13.00	6.40	4.00	1.50
920	13.10	6.40	4.00	1.50
940	13.00	6.40	4.00	1.50
960	13.00	6.40	4.00	1.50
980	12.90	6.40	4.00	1.50
1000	13.00	6.40	4.00	1.50
1020	13.00	6.50	4.00	1.50
1040	13.00	6.40	4.00	1.50
1060	13.00	6.40	4.00	1.50
1080	12.90	6.40	4.00	1.50
1100	12.90	6.50	4.10	1.60
1120	12.90	6.40	4.00	1.50
1140	12.90	6.50	4.00	1.50
1160	12.90	6.40	4.00	1.50
1180	12.90	6.40	4.00	1.50
1200	12.90	6.40	4.00	1.50
1220	12.80	6.40	4.00	1.50
1240	12.90	6.40	4.00	1.50
1260	12.90	6.40	4.10	1.50
1280	12.80	6.40	4.00	1.50
1300	12.80	6.40	4.00	1.60
1320	12.80	6.40	4.00	1.50
1340	12.90	6.40	4.00	1.50
1360	12.80	6.40	4.00	1.50
1380	12.70	6.40	4.00	1.50
1400	12.80	6.40	4.00	1.50
1600	12.80	6.40	4.00	1.50
1620	12.70	6.40	4.10	1.50
1640	12.70	6.40	4.00	1.50
1660	12.50	6.40	4.00	1.50
1680	12.70	6.40	4.00	1.50
1700	12.80	6.40	4.10	1.50
1720	12.70	6.40	4.10	1.60
1740	12.50	6.40	4.10	1.60
1760	12.60	6.40	4.10	1.60
1780	12.50	6.40	4.00	1.60
1800	12.60	6.40	4.10	1.60
2000	12.60	6.40	4.10	1.50
2250	12.50	6.40	4.10	1.60
2500	12.20	6.40	4.10	1.60
2750	12.10	6.40	4.10	1.60
2900	12.20	6.40	4.10	1.60
2920	12.40	6.40	4.10	1.50
2940	12.20	6.40	4.10	1.50
2960	12.20	6.40	4.00	1.50
2980	12.10	6.40	4.10	1.50
3000	12.20	6.40	4.10	1.50
3020	12.10	6.40	4.10	1.50
3040	12.10	6.40	4.10	1.50
3060	12.20	6.40	4.10	1.50
3080	12.20	6.40	4.10	1.50
3100	12.20	6.50	4.10	1.50
3120	12.20	6.50	4.10	1.50
3140	12.20	6.50	4.10	1.50
3160	12.10	6.40	4.10	1.50
3180	12.20	6.50	4.10	1.50
3200	12.10	6.40	4.00	1.50
3220	12.20	6.40	4.10	1.50
3240	12.10	6.50	4.10	1.50
3260	12.20	6.50	4.10	1.50
3280	12.10	6.40	4.10	1.50
3300	12.20	6.50	4.10	1.50
3320	12.10	6.40	4.10	1.50
3340	12.30	6.40	4.10	1.50
3360	12.30	6.50	4.10	1.50
3380	12.20	6.40	4.10	1.50
3400	12.20	6.50	4.10	1.50
3500	12.10	6.40	4.00	1.50
3750	10.70	6.30	3.90	1.40
4000	10.60	6.30	3.90	1.40
4250	10.50	6.30	3.90	1.40
4500	10.50	6.20	3.90	1.40
4750	10.50	6.30	3.90	1.40
5000	10.50	6.30	4.00	1.50
5250	10.60	6.30	4.00	1.60
5500	10.60	6.20	3.90	1.50
5750	10.20	6.20	3.90	1.40
6000	10.50	6.20	4.00	1.50
6250	10.20	6.20	3.90	1.50
6500	10.20	6.10	3.90	1.50
6750	10.20	6.20	4.00	1.50
7000	10.20	6.30	4.10	1.70
7250	10.20	6.30	4.00	1.60
7500	10.20	6.20	4.00	1.60
7750	10.00	6.40	4.30	2.00
8000	9.90	6.40	4.30	2.00
8250	9.90	6.30	4.10	1.80
8500	9.80	6.30	4.10	1.80
8550	9.70	6.40	4.10	1.80
8560	9.70	6.40	4.10	1.70
8570	9.70	6.40	4.10	1.70
8580	9.50	6.30	4.00	1.70
8590	9.60	6.40	4.10	1.70
8600	9.60	6.40	4.10	1.70
8610	9.60	6.40	4.10	1.70
8620	9.70	6.50	4.10	1.80
8630	9.70	6.50	4.10	1.80
8640	9.60	6.40	4.10	1.70
8650	9.60	6.50	4.10	1.80
8660	9.50	6.50	4.10	1.80
8670	9.40	6.40	4.10	1.80
8680	9.50	6.60	4.10	1.80
8690	9.40	6.50	4.10	1.80
8700	9.50	6.60	4.10	1.80
8710	9.50	6.50	4.00	1.70
8720	9.40	6.60	4.00	1.70
8730	9.40	6.60	4.10	1.70
8740	9.40	6.60	4.00	1.70
8750	9.30	6.50	4.00	1.70
8760	9.30	6.60	4.00	1.70
8770	9.30	6.60	4.00	1.60
8780	9.30	6.60	3.90	1.60
8790	9.30	6.70	4.10	1.80
8802	9.00	6.60	3.90	1.60

1540 COLLAR LOCATOR [MV] 1940

60 TEMPERATURE [DEG F] 80

0.02 AUDIO DETECTION LOG [MV] 200

-2 DIFFERENTIAL TEMPERATURE [DEG F] 2