WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

COMPANY:	SOUTHERN CALIF. GAS CO.		
WELL:	STANDARD SESNON 4A		
FIELD:	ALISO CANYON		
COUNTY:	LOS ANGELES	STATE:	CALIFORNIA
LOCATION: DISTRICT 2		OTHER SVC:	
API NUMBER: 0403721375			
SEC: 29	TWN: 3N	RNG: 16W	

WELL TYPE: GS, OG

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	04-18-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1710
EFFECTIVE DEPTH	8771'	CASING PSI			1710
PICKUP DEPTH	8695'	INJECTION RATE		N/A	
BOT LOGGED INT	8695'	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	158.6 F.	OIL Gr.		OIL =	
AT DEPTH	8337.0'	GAS Gr.		GAS=	
TEMPERATURE SENS	1 F/DIV.	MPP		BHP =	
LOGGING SPEED	100 FPM			WATER=	
RECORDED BY	S. MACIAS				
WITNESSED BY	N/A				
EMAIL TO	A. KARGAR				
DEPTH CORRELATION	PACKERS				

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

11:30AM ON LOCATION
11:42AM RAN IN HOLE
11:43AM BEGIN SURVEY
2:30PM PULL OUT OF HOLE
3:00PM OFF LOCATION
SAND TAG MARKERS: 8335' TOP S1
8428' TOP S4
8553' TOP S8

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	55	SURFACE	928'	2.875"	6.5	SURFACE	3910'
8.625"	36	SURFACE	4065'	3.500"	N/A	3910'	8189'
6.625"	24	3151'	8248'	2.875"	6.5	8189'	8210'
4.5"	11.6	8217'	8771'				

STR.	PIPE DIA.	PERFORATIONS
A	6.625"	WSO: 8220'
	4.5"	8217'-8737'.
		PACKERS: 3915'-3919', 8206'-8210'.
		SLIDING SLEEVES: 3873'-3878'.
		NO-GO: 3908'.

Audio Data: C:\data\NOISE.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
100	6.20	4.60	4.20	3.00
320	5.20	4.50	4.20	3.00
570	5.30	4.70	4.50	3.20
820	4.90	4.40	4.20	3.10
840	5.00	4.50	4.30	3.10
860	5.10	4.50	4.30	3.10
880	5.10	4.60	4.40	3.20
899	5.20	4.60	4.40	3.20
920	5.40	4.70	4.40	3.10
940	4.90	4.40	4.20	3.10
960	4.90	4.40	4.20	3.10
980	5.50	4.50	4.30	3.10
1000	4.90	4.50	4.30	3.20
1130	5.00	4.60	4.30	3.20
1380	6.10	4.80	4.40	3.10
1630	5.30	4.70	4.40	3.20
1880	4.90	4.50	4.30	3.20
2130	4.70	4.40	4.20	3.10
2380	4.90	4.50	4.30	3.20
2630	4.70	4.40	4.20	3.10
2880	4.50	4.30	4.20	3.00
3130	4.80	4.30	4.10	3.10
3380	4.70	4.30	4.10	3.00
3630	4.80	4.40	4.20	3.10
3880	4.50	4.20	4.10	2.90
3900	4.40	4.20	4.00	2.90
3920	4.50	4.30	4.20	3.10
3940	4.50	4.20	4.00	2.90
3960	4.80	4.30	4.10	2.90
3980	4.60	4.30	4.10	2.90
4000	4.40	4.20	4.10	2.90
4020	4.40	4.20	4.10	3.00
4040	4.40	4.20	4.10	2.90
4060	5.00	4.30	4.10	2.90
4080	4.80	4.20	4.10	2.90
4100	4.70	4.30	4.10	3.00
4200	5.20	4.60	4.30	3.10
4450	4.40	4.20	4.10	3.00
4700	4.40	4.20	4.00	2.90
4950	4.40	4.10	4.00	2.90
5200	4.40	4.20	4.00	2.90
5450	4.30	4.10	3.90	2.80
5700	4.50	4.20	4.00	2.90
5950	5.20	4.30	4.00	2.90
6200	4.50	4.20	3.90	2.90
6450	5.10	4.20	4.00	2.90
6700	6.10	4.90	4.50	3.20
6950	5.10	4.20	4.00	2.80
7200	5.20	4.30	4.00	2.80
7450	6.40	4.40	4.00	2.90
7700	5.50	4.40	4.00	2.90
7950	5.90	4.60	4.10	2.80
7960	6.10	4.70	4.10	2.90
7970	6.00	4.70	4.10	2.80
7980	6.00	4.70	4.10	2.80
7990	7.40	5.20	4.40	3.00
8000	6.80	4.70	4.10	2.80
8210	6.70	5.10	4.20	2.80
8220	9.00	6.30	4.80	2.90
8230	9.60	6.40	4.70	2.80
8240	11.00	6.70	4.80	2.90
8250	11.20	6.70	4.80	2.80
8260	12.00	6.90	4.90	2.80
8270	11.90	7.00	4.90	2.80
8280	12.20	7.10	5.00	2.90
8290	12.40	7.10	5.00	2.80
8300	12.90	7.30	5.10	2.90
8394	18.50	10.50	6.80	3.10
8494	5.40	5.10	4.60	2.90
8594	12.10	8.00	6.70	4.20
8694	15.70	7.70	6.00	3.20