WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

COMPANY: SOUTHERN CALIF GAS CO.			
WELL: STANDARD SESNON 13			
FIELD: ALISO CANYON			
COUNTY: LOS ANGELES		STATE: CALIFORNIA	
LOCATION: DISTRICT 2		OTHER SVC:	
WELL TYPE: GS			
API NUMBER: 0403700765			
SEC: 28	TWN: 3N	RNG: 16W	
PERMANENT DATUM: GROUND LEVEL	ELEV:	-ELEVATIONS-	KB: Ft. DF: Ft. GL: Ft.
LOG MEASURED FROM KB 6.92' ABOVE PERM DATUM			
DRILLING MEASURED FROM			

DATE LOG RAN	04-06-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1816
EFFECTIVE DEPTH	9345' PBTD	CASING PSI			1816
PICKUP DEPTH	9333'	INJECTION RATE			NA
BOTTOM LOGGED INT	9333'	OBSERVED RATE			NA
TOP LOGGED INT	25'	R/A SOURCE			NA
TYPE OF INJECT	NONE	ACTIVITY			NA
FLUID IN WELL	OWG	HALF LIFE			NA
WELL STATUS	STATIC				
FLUID LEVEL					
MAX TEMPERATURE	192.9 F.	OIL Gr.		PRODUCTION DATA	
AT DEPTH	9333.0'	GAS Gr.		OIL=	
TEMPERATURE SENS	1 F/DIV			GAS=	
LOGGING SPEED	100 FPM	MPP		BHP=	WATER=
RECORDED BY	C.FITZPATRICK				
WITNESSED BY	NA				
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

PLEASE NOTE: TOOLS PULLING 50 LBS ABOVE NORMAL WEIGHT FROM 3300'-2400'.
07:00 AM- ON LOCATION
07:30 AM- RAN IN HOLE
07:45 AM- BEGIN SURVEY
11:30 AM- PULL OUT OF HOLE
11:45 AM- OFF LOCATION
SAND TAG MARKERS: 8750' TOP MP
8967' TOP S1
9095' TOP S2
9044' TOP S4
9198' TOP S8

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	752'	2.375"	6.4	8850'	9186'
7.000"	29	SURFACE	9035'				
5.000"	18	8938'	9350'				
2.875"	6.4	SURFACE	8856'				

STR.	PIPE DIA.	PERFORATIONS
A	7.000"	SQUEEZED: 8907'-8910'.
	5.000"	8962'-8980', 8995'-9014', 9045'-9100', 9121'-9156', 9196'-9285', 9295'-9345'.
		PACKERS: 8880'-8887', 9168'-9175'.
		MANDRELS: 3060', 5389', 7254', 8802'.
		SLEEVES: 9084'.
		NO-GO: 8846', 9184'.

Audio Data: C:\data\NOISE.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ	COMMENTS
100	8.70	3.30	2.10	0.80	WINDY OUTSIDE 11 MPH
200	10.60	2.90	2.00	0.80	
400	4.80	2.80	1.90	0.80	
420	4.60	2.90	1.90	0.80	
440	4.60	2.80	1.90	0.80	
460	4.70	2.90	1.90	0.80	
480	4.70	2.70	1.90	0.80	
500	4.70	2.80	1.90	0.80	
520	4.20	2.80	1.90	0.80	
540	4.20	2.80	1.90	0.80	
560	4.00	2.70	1.90	0.80	
580	4.50	2.70	1.90	0.80	
600	4.10	2.70	1.80	0.80	
620	4.90	2.90	2.00	0.80	
640	4.50	2.80	1.90	0.80	
660	4.70	2.80	1.90	0.80	
680	4.50	2.70	1.90	0.80	
700	4.50	2.80	1.90	0.80	
720	4.50	2.90	1.80	0.80	
740	4.30	2.70	1.80	0.80	
760	4.60	2.80	1.80	0.80	
780	5.70	2.90	1.90	0.80	
800	5.70	2.90	1.90	0.80	
1000	3.80	2.90	1.90	0.80	
1250	4.10	2.90	1.90	0.80	
1500	4.10	2.90	1.90	0.80	
1750	4.00	2.90	2.00	0.80	
2000	3.60	2.80	1.90	0.80	
2250	3.60	2.80	2.00	0.80	
2500	5.50	3.40	2.40	0.80	
2750	6.00	4.10	3.10	0.80	
3000	8.50	5.90	4.70	0.80	
3250	7.00	4.30	3.20	0.80	
3500	7.30	5.10	3.80	0.80	
3750	4.10	3.00	2.60	0.80	
4000	4.60	3.10	2.60	0.70	
4250	4.20	2.90	2.60	0.80	
4500	3.90	2.80	2.40	0.80	
4750	4.50	2.80	2.50	0.80	
5000	4.00	2.80	2.40	0.80	
5250	3.60	2.80	2.50	0.80	
5500	3.60	2.80	2.40	0.80	
5750	4.50	2.80	2.50	0.80	
6000	4.30	2.80	2.50	0.80	
6250	3.10	2.70	2.40	0.80	
6500	3.10	2.80	2.50	0.80	
6750	4.30	2.80	2.50	0.80	
7000	4.50	2.70	2.40	0.80	
7250	4.00	2.70	2.40	0.80	
7500	3.10	2.90	2.60	0.80	
7750	3.50	2.90	2.60	0.80	
8000	3.60	3.00	2.60	0.80	
8250	3.30	3.00	2.60	0.90	
8500	3.20	2.90	2.60	0.80	
8700	2.90	2.80	2.50	0.80	
8710	2.90	2.80	2.50	0.80	
8720	2.90	2.80	2.50	0.80	
8730	2.90	2.90	2.60	0.80	
8740	3.10	2.90	2.60	0.80	
8750	3.20	3.00	2.70	0.80	
8760	3.00	2.90	2.60	0.80	
8770	3.00	2.90	2.60	0.80	
8780	3.10	2.90	2.60	0.80	
8790	3.30	3.00	2.70	0.80	
8800	3.10	3.00	2.70	0.80	
8810	3.40	3.00	2.70	0.90	
8820	3.20	3.00	2.70	0.90	
8830	3.20	2.90	2.60	0.80	
8840	3.20	3.00	2.70	0.80	
8850	3.10	3.00	2.70	0.80	
8860	3.10	2.90	2.60	0.80	
8870	3.10	2.90	2.60	0.80	
8880	3.20	2.90	2.60	0.80	
8890	3.40	2.90	2.60	0.80	
8900	3.30	3.00	2.70	0.90	POPPING
8910	5.00	4.50	4.20	2.00	
8920	3.40	3.40	3.10	1.10	
8930	7.30	3.60	3.10	1.00	GAS MOVING
8940	7.10	3.60	3.00	1.00	|
8950	7.00	4.10	3.50	1.00	|
8960	10.10	4.70	4.00	1.20	|
8970	16.80	8.60	7.00	1.80	|
8980	15.20	6.90	5.40	1.50	|
8990	14.20	5.90	4.50	1.40	|
9000	15.30	6.50	4.90	1.40	|
9033	13.10	5.40	4.00	1.20	|
9133	26.40	9.80	6.90	1.90	\/
9233	5.60	3.50	2.90	1.00	
9333	5.30	4.60	3.50	1.00	