WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE: GS

COMPANY: SOUTHERN CALIF. GAS CO.
WELL: STANDARD SESNON 16
FIELD: ALISO CANYON
COUNTY: LOS ANGELES STATE: CALIFORNIA
LOCATION: DISTRICT 2
OTHER SVC:
API NUMBER: 0403700768
SEC: 28 TWN: 03N RNG: 16W

CB

PERMANENT DATUM: GROUND LEVEL ELEV: 2386 FT.
LOG MEASURED FROM MAT 0' ABOVE PERM DATUM
DRILLING MEASURED FROM

-ELEVATIONS-
KB: Ft.
DF: Ft.
GL: 2386 Ft.

DATE LOG RAN	04-06-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1780
EFFECTIVE DEPTH	9203' CEMENT	CASING PSI			1780
PICKUP DEPTH	9165'	INJECTION RATE	N/A		
BOT LOGGED INT	9165'	OBSERVED RATE	N/A		
TOP LOGGED INT	25'	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	195.1 F.	OIL Gr.		OIL =	
AT DEPTH	9165.0'	GAS Gr.		GAS=	
TEMPERATURE SENS	1 F/DIV.	MPP		BHP =	
LOGGING SPEED	100 FPM			WATER=	
RECORDED BY	C. FITZPATRICK				
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"		

Remarks/Survey Results

12:00 PM - ON LOCATION
12:10 PM - RAN IN HOLE
12:15 PM - BEGIN SURVEY
04:00 PM - PULL OUT OF HOLE
04:30 PM - OFF LOCATION

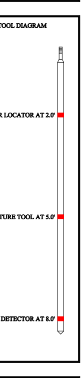
SAND TAG MARKERS: 8885' TOP S4
9002' TOP S8

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	837'				
7.000"	29.0	SURFACE	8865'				
5.000"	18.0	8790'	9205'				
2.875"	6.5	SURFACE	8760'				

STR.	PIPE DIA.	PERFORATIONS
A	7.000"	WSO: 8784'.
	5.000"	8811'-8826', 8847'-8860', 8890'-8950',
		8960'-8990'.
		PACKERS: 8760'.
		GAS LIFT MANDRELS: 1587', 3107',4407',
		5614', 6697', 7715', 8673'.
		SLIDING SLEEVES: 8729'.
		NO-GO: 8750'.

TOOL DIAGRAM



# DEPTH	200Hz	600Hz	1000Hz	2000Hz
100.0	5.90	2.70	2.50	0.70
200.0	4.60	2.70	2.50	0.70
300.0	3.90	2.70	2.50	0.70
320.0	3.80	2.70	2.50	0.70
340.0	4.10	2.70	2.50	0.70
360.0	4.40	2.70	2.50	0.70
380.0	4.00	2.80	2.50	0.70
400.0	4.80	2.80	2.50	0.80
420.0	4.30	2.80	2.50	0.80
440.0	4.50	2.70	2.50	0.70
460.0	4.40	2.70	2.50	0.70
480.0	4.40	2.80	2.50	0.70
500.0	3.70	2.70	2.50	0.70
520.0	3.90	2.70	2.50	0.70
540.0	4.20	2.80	2.50	0.70
560.0	4.30	2.80	2.50	0.70
580.0	3.40	2.70	2.40	0.70
600.0	3.50	2.70	2.50	0.70
700.0	3.60	2.90	2.50	0.80
720.0	3.40	2.80	2.50	0.80
740.0	3.40	2.80	2.50	0.80
760.0	3.50	2.90	2.50	0.80
780.0	3.50	2.90	2.50	0.80
800.0	3.50	2.80	2.50	0.80
820.0	3.60	2.90	2.50	0.70
840.0	3.20	2.90	2.50	0.70
860.0	3.50	2.90	2.50	0.70
880.0	3.30	2.90	2.60	0.80
900.0	3.20	2.90	2.60	0.80
1000.0	3.20	2.80	2.50	0.80
1250.0	3.50	3.10	2.60	0.80
1500.0	3.50	3.20	2.60	0.80
1750.0	3.30	3.00	2.60	0.80
2000.0	4.90	4.50	2.60	0.80
2200.0	4.90	4.40	2.60	0.80
2220.0	4.60	3.80	2.60	0.80
2240.0	6.50	5.90	2.90	0.80
2260.0	6.00	5.60	2.70	0.80
2280.0	6.10	5.50	2.90	0.80
2300.0	7.50	6.30	2.90	0.90
2500.0	6.30	5.90	2.90	0.80
2750.0	13.50	12.30	4.70	1.60
3000.0	15.70	14.80	5.60	2.00
3250.0	12.00	11.20	6.20	2.90
3500.0	7.70	7.00	4.80	1.80
3750.0	3.90	3.50	2.80	0.80
4000.0	4.20	3.90	2.80	0.80
4250.0	3.50	3.20	2.70	0.80
4500.0	3.30	3.00	2.60	0.80
4750.0	3.60	3.00	2.70	0.80
5000.0	3.10	2.80	2.60	0.80
5250.0	3.00	2.90	2.60	0.80
5500.0	3.00	2.80	2.60	0.80
5750.0	3.30	2.90	2.60	0.80
6000.0	3.20	2.80	2.60	0.80
6250.0	3.10	2.80	2.60	0.80
6500.0	3.50	2.80	2.60	0.80
6750.0	3.70	2.80	2.60	0.80
7000.0	3.60	2.80	2.60	0.80
7250.0	3.20	2.80	2.60	0.80
7500.0	3.10	2.90	2.70	0.80
7750.0	3.90	3.10	2.90	0.90
8000.0	3.90	2.90	2.70	0.80
8250.0	3.50	3.10	2.80	0.80
8550.0	3.20	3.00	2.80	0.80
8560.0	3.40	3.20	2.90	0.90
8570.0	3.10	3.00	2.80	0.80
8580.0	3.80	3.50	3.20	0.90
8590.0	3.40	3.20	2.90	0.90
8600.0	3.30	3.20	2.90	0.90
8610.0	3.30	3.10	2.90	0.90
8620.0	3.20	3.10	2.90	0.90
8630.0	3.10	3.00	2.70	0.80
8640.0	3.30	3.10	2.90	0.90
8650.0	3.20	3.00	2.80	0.80
8660.0	3.10	2.90	2.70	0.80
8670.0	3.10	2.90	2.70	0.80
8680.0	3.00	2.90	2.70	0.80
8690.0	3.00	2.90	2.70	0.80
8700.0	3.10	3.00	2.80	0.80
8710.0	3.90	2.90	2.70	0.80
8720.0	3.30	2.90	2.70	0.80
8730.0	4.00	3.10	2.80	0.80
8740.0	4.40	3.00	2.80	0.80
8750.0	3.70	3.00	2.70	0.80
8760.0	3.20	3.00	2.80	0.80
8770.0	3.70	3.30	2.90	0.90
8780.0	4.90	3.00	2.70	0.80
8790.0	4.20	4.10	3.40	1.00
8800.0	3.90	3.30	3.00	0.90
8810.0	4.30	3.30	2.90	0.90
8820.0	5.10	3.10	2.80	0.80
8830.0	5.00	3.10	2.80	0.80
8840.0	5.70	3.10	2.80	0.80
8850.0	5.70	3.20	2.80	0.90
8950.0	4.20	3.30	2.80	0.80
9050.0	17.00	10.80	9.80	7.20
9165.0	3.50	3.30	3.00	0.80