WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE: GS

COMPANY: SOUTHERN CALIF. GAS CO.
WELL: SESNON FEE 8
FIELD: ALISO CANYON
COUNTY: LOS ANGELES STATE: CALIFORNIA
LOCATION: DISTRICT 2 OTHER SVC:
API NUMBER: 0403722654
SEC: 33 TWN: 3N RNG: 16W

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	04-25-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1112
EFFECTIVE DEPTH	9140'	CASING PSI			1112
PICKUP DEPTH	9107'	INJECTION RATE	N/A		
BOT LOGGED INT	9107'	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	199.4 F	OIL Gr.	OIL =		
AT DEPTH	9107'	GAS Gr.	GAS=		
TEMPERATURE SENS	1 F/DIV.	MPP	BHP =		
LOGGING SPEED	100 FPM		WATER=		
RECORDED BY	D.PROKUSKI				
WITNESSED BY	N/A				
EMAIL TO	A. KARGAR				
DEPTH CORRELATION	PACKER				

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

7:30AM ON LOCATION
8:00AM RAN IN HOLE
8:15AM BEGIN SURVEY
11:45AM PULL OUT OF HOLE
12:00PM OFF LOCATION

SAND TAG MARKERS: 9090' TOP S4
9206' TOP S8

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	2236'				
7.000"	23	SURFACE	9402'				
2.875"	6.5	SURFACE	8964'				

STR.	PIPE DIA.	PERFORATIONS
A	7.000"	WSO: 9000' 9078'-9130'.
		PACKERS: 8953'-8958'.
		GAS LIFT MANDRELS: 2014'-2019', 3464'-3469', 4771'-4776', 6002'-6007', 7030'-7035', 8006'-8011', 8865'-8870'.
		SLIDING SLEEVES: 8908'-8913'.
		NO-GO: 8953'.

Audio Data: C:\data\NOISE.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
100	11.00	6.30	3.50	0.90
250	11.00	6.30	3.60	1.40
400	10.80	6.20	3.50	1.20
420	10.70	6.20	3.60	1.40
440	10.70	6.20	3.50	1.30
460	10.90	6.30	3.50	1.30
480	10.60	6.20	3.50	1.40
500	10.60	6.30	3.50	1.30
520	10.60	6.20	3.50	1.30
540	10.70	6.20	3.50	1.30
560	10.60	6.20	3.60	1.40
580	10.80	6.30	3.60	1.40
600	10.70	6.20	3.50	1.20
620	10.40	6.10	3.50	1.40
640	10.50	6.20	3.50	1.30
660	10.60	6.20	3.60	1.40
680	10.70	6.40	3.80	1.70
700	10.60	6.30	3.50	1.40
720	10.50	6.20	3.50	1.30
740	10.40	6.10	3.40	1.20
760	10.70	6.30	3.70	1.70
780	10.60	6.30	3.60	1.50
800	10.70	6.20	3.50	1.30
820	10.60	6.30	3.60	1.50
840	10.40	6.10	3.50	1.30
860	10.80	6.50	3.80	1.50
880	10.50	6.20	3.60	1.50
900	10.50	6.20	3.50	1.40
920	10.90	6.30	3.70	1.50
940	10.40	6.20	3.60	1.60
960	10.70	6.20	3.60	1.60
980	10.50	6.30	3.70	1.80
1000	10.70	6.40	3.80	1.90
1020	10.40	6.20	3.60	1.60
1040	10.40	6.30	3.80	1.80
1060	10.40	6.20	3.60	1.60
1080	10.50	6.30	3.60	1.60
1100	10.50	6.30	3.70	1.70
1120	10.60	6.20	3.60	1.50
1140	10.70	6.40	3.70	1.60
1160	10.40	6.10	3.50	1.40
1180	10.40	6.10	3.50	1.50
1200	10.40	6.10	3.50	1.40
1500	10.50	6.20	3.70	1.80
1600	10.50	6.30	3.90	2.00
1620	10.20	6.20	3.70	1.80
1640	10.30	6.20	3.70	1.90
1660	10.30	6.20	3.70	1.80
1680	10.30	6.30	3.80	2.00
1700	10.30	6.30	3.80	2.00
1720	10.30	6.30	3.80	2.00
1740	10.30	6.20	3.70	1.80
1760	10.30	6.20	3.70	1.90
1780	10.30	6.20	3.70	1.80
1800	10.30	6.20	3.70	1.80
1820	10.30	6.20	3.70	1.80
1840	10.40	6.20	3.70	1.70
1860	10.30	6.20	3.70	1.80
1880	10.50	6.20	3.70	1.80
1900	10.10	6.10	3.60	1.70
1920	10.40	6.20	3.70	1.70
1940	10.20	6.20	3.70	1.80
1960	10.30	6.20	3.60	1.70
1980	10.20	6.20	3.70	1.90
2000	10.30	6.30	3.80	1.90
2020	10.20	6.20	3.70	1.80
2040	10.20	6.20	3.60	1.70
2060	10.10	6.10	3.50	1.30
2080	10.20	6.10	3.50	1.30
2100	10.30	6.10	3.50	1.40
2120	10.10	6.10	3.50	1.30
2140	10.30	6.10	3.50	1.30
2160	10.60	6.20	3.60	1.50
2180	10.30	6.20	3.60	1.40
2200	10.50	6.20	3.60	1.50
2220	10.90	6.20	3.60	1.50
2240	10.50	6.20	3.60	1.50
2260	10.20	6.10	3.50	1.30
2280	12.10	6.50	4.00	1.90
2300	10.90	6.20	3.60	1.40
2500	10.90	6.20	3.50	1.10
2750	10.80	6.20	3.40	0.90
3000	10.50	6.10	3.50	1.30
3250	10.20	6.10	3.40	1.10
3500	10.40	6.20	3.40	1.00
3750	10.40	6.20	3.40	1.00
4000	9.90	6.00	3.50	1.30
4250	10.70	6.20	3.50	0.80
4500	10.20	6.20	3.40	0.90
4750	10.20	6.20	3.50	1.00
5000	10.30	6.20	3.50	0.80
5250	10.20	6.20	3.50	0.80
5500	10.20	6.30	3.50	0.80
5750	10.20	6.20	3.40	0.70
6000	10.30	6.30	3.50	0.80
6100	10.40	6.20	3.50	0.80
6120	10.30	6.30	3.60	0.90
6140	11.30	6.60	3.90	1.30
6160	11.00	6.50	3.80	1.10
6180	10.40	6.30	3.60	0.90
6200	10.70	6.40	3.70	1.00
6220	11.10	6.50	3.70	1.00
6240	11.20	6.50	3.70	1.00
6260	11.80	6.60	3.90	1.30
6280	12.50	6.80	4.00	1.50
6300	12.00	6.60	3.90	1.30
6320	10.90	6.40	3.50	0.90
6340	10.80	6.50	3.70	1.10
6360	10.60	6.30	3.50	0.90
6380	10.80	6.50	3.60	0.90
6400	10.70	6.50	3.70	1.10
6420	10.60	6.40	3.60	1.00
6440	10.80	6.50	3.70	1.10
6460	10.60	6.40	3.60	1.00
6480	10.60	6.40	3.50	0.90
6500	10.40	6.30	3.50	0.80
6800	11.10	6.20	3.40	0.80
6820	11.40	6.20	3.50	0.90
6840	11.80	6.30	3.50	0.80
6860	10.70	6.30	3.40	0.80
6880	12.60	6.30	3.60	0.90
6900	13.30	6.60	3.70	1.00
6920	13.40	6.80	3.90	1.30
6940	12.60	6.40	3.50	0.90
6960	12.90	6.50	3.70	1.20
6980	12.90	6.60	3.70	1.10
7000	13.20	6.70	3.80	1.20
7020	13.10	6.40	3.60	1.00
7040	13.40	6.50	3.60	1.00
7060	13.20	6.50	3.60	1.00
7080	13.40	6.40	3.60	1.10
7100	12.90	6.40	3.50	0.90
7200	17.90	6.70	3.60	1.00
7300	16.00	6.70	3.60	0.90
7400	19.70	6.80	3.40	0.80
7500	20.40	6.90	3.40	0.90
7520	21.70	6.80	3.60	1.00
7540	22.70	7.00	3.40	0.90
7560	25.10	8.20	3.40	0.90
7580	21.70	8.10	3.50	0.90
7600	18.90	8.10	3.50	0.90
7620	17.90	7.50	3.70	1.10
7640	21.80	7.30	3.50	0.90
7660	28.90	9.20	3.50	0.90
7680	37.20	11.70	3.40	0.90
7700	40.80	12.40	3.60	1.00
7720	41.20	11.70	3.40	0.90
7740	35.40	8.20	3.70	1.10
7760	18.50	8.00	3.60	1.00
7780	16.10	8.60	3.50	1.00
7800	18.70	8.70	3.50	1.00
7820	19.50	7.90	3.50	0.90
7840	20.70	7.40	3.50	1.00
8000	17.60	7.40	3.50	1.00
8250	19.00	6.90	3.50	1.00
8500	15.30	6.90	3.80	1.10
8750	12.70	6.50	3.40	0.90
8760	13.10	6.50	3.30	0.90
8770	13.20	6.60	3.40	0.90
8780	14.00	6.60	3.30	0.80
8790	13.30	6.60	3.40	0.90
8800	13.20	6.70	3.40	0.90
8810	12.70	6.50	3.40	0.80
8820	12.90	6.60	3.40	0.90
8830	13.00	6.70	3.60	1.20
8840	12.90	6.70	3.40	1.00
8850	12.70	6.60	3.30	0.80
8860	13.00	6.50	3.30	0.80
8870	13.00	6.70	3.40	0.90
8880	12.30	6.60	3.40	0.90
8890	12.10	6.60	3.30	0.80
8900	12.80	6.60	3.40	1.00
8910	12.10	6.60	3.40	0.90
8920	11.20	6.60	3.40	0.90
8930	12.30	6.90	3.50	1.00
8940	11.50	6.50	3.30	0.90
8950	10.40	6.60	3.30	0.90
8960	9.00	6.50	3.30	0.80
8970	9.20	6.60	3.30	0.90
8980	9.10	6.50	3.30	0.90
8990	9.10	6.70	3.40	0.90
9000	9.00	6.60	3.30	0.90
9010	9.00	6.60	3.20	0.80
9020	9.10	6.60	3.30	0.90
9030	9.00	6.60	3.20	0.80
9040	8.90	6.60	3.20	0.80
9050	9.00	6.70	3.20	0.80
9060	8.90	6.60	3.20	0.80
9070	8.80	6.50	3.20	0.80
9080	8.80	6.70	3.30	0.90
9090	8.80	6.60	3.20	0.80
9100	12.20	8.50	5.30	3.00
9107	8.60	6.70	3.20	0.90