WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

COMPANY: SOUTHERN CALIF. GAS CO.
WELL: PORTER SESNON 42
FIELD: ALISO CANYON
COUNTY: LOS ANGELES
STATE: CALIFORNIA
LOCATION: DISTRICT 2
OTHER SVC:
WELL TYPE: GS
BFW
API NUMBER: 0403700753
SEC: 28 TWN: 3N RNG: 16W

-ELEVATIONS-
KB: 2656.50 Ft.
DF: Ft.
GL: 2647.50 Ft.

PERMANENT DATUM: GROUND LEVEL ELEV: 2647.50'
LOG MEASURED FROM KB 9' ABOVE PERM DATUM
DRILLING MEASURED FROM

DATE LOG RAN	04-19-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1
EFFECTIVE DEPTH	9150'	CASING PSI			5
PICKUP DEPTH	8605'	INJECTION RATE	N/A		
BOT LOGGED INT	8605'	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	180.5 F	OIL Gr.	N/A	OIL =	N/A
AT DEPTH	8605.0'	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	S.MACIAS				
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

COLLAR LOCATOR AT 2.0'
TEMPERATURE TOOL AT 5.0'
AUDIO DETECTOR AT 8.0'

Remarks/Survey Results

03:00PM - ON LOCATION
03:27PM - RAN IN HOLE
03:27PM - BEGIN SURVEY

SAND TAG MARKERS: 4660' TOP A1
5940' TOP UP
6507' TOP LP
6785' TOP UDA1
7780' TOP MDA
8000' TOP LDA
8590' TOP MP
8801' TOP S1
8857' TOP S4
9003' TOP S8

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
11.75"	42	SURFACE	1567'				
7.000"	23	SURFACE	9165'				
5.000"	18	8755'	9150'				
2.875"	6.5	SURFACE	8709'				

STR.	PIPE DIA.	PERFORATIONS
A	7.000"	WSO: 8801', 8805'-8815', 8835'-8845',
		8854'-8930', 8942'-8980', 9005'-9155'.
	5.000"	8794'-8798', 8801'-8820', 8822'-8842',
		8844'-8863', 8865'-8895', 8898'-8917',
		8920'-8948', 8951'-8970', 8973'-8990',
		8992'-9009', 9012'-9032', 9034'-9051',
		9053'-9072', 9075'-9091', 9094'-9109',
		9111'-9129', 9131'-9148'.
		PACKERS: 8690'-8695'.
		GAS LIFT MANDRELS: 2803'-2808', 4902'-4907',
		6795'-6800', 8614'-8619'.
		NO-GO: 8687'.

Audio Data: C:\data\NOISE.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
100	6.90	6.70	6.30	5.00
120	7.70	7.40	7.10	5.10
140	7.70	7.30	6.90	4.40
160	6.60	6.30	6.00	4.00
180	5.80	5.50	5.30	3.90
200	5.40	5.10	5.00	3.40
220	4.90	4.60	4.50	3.20
240	6.10	5.00	4.80	3.50
260	5.70	5.20	5.00	3.50
280	6.20	5.10	4.90	3.70
300	5.90	5.20	5.00	3.60
320	5.80	5.20	5.00	3.60
340	5.60	4.60	4.50	3.20
360	5.20	4.40	4.40	3.10
380	5.60	4.50	4.40	3.20
400	5.70	4.50	4.50	3.20
420	5.30	4.50	4.40	3.20
440	6.10	4.50	4.40	3.20
460	6.90	4.60	4.50	3.20
480	5.80	4.40	4.30	3.00
500	6.20	4.50	4.40	3.00
520	6.60	4.50	4.40	3.10
540	6.20	4.40	4.30	3.10
560	6.40	4.50	4.40	3.20
580	6.60	4.50	4.40	3.00
600	6.50	4.40	4.30	3.00
620	7.20	4.50	4.40	3.10
640	7.40	4.50	4.40	3.00
660	6.70	4.40	4.40	3.10
680	7.10	4.50	4.40	3.00
700	6.40	4.50	4.40	3.10
720	7.40	4.50	4.40	3.10
740	7.30	4.50	4.40	3.00
760	6.70	4.50	4.40	3.00
780	5.60	4.30	4.20	3.00
800	5.20	4.30	4.20	3.00
950	4.60	4.30	4.20	3.00
1200	4.60	4.20	4.20	2.90
1220	4.80	4.20	4.20	2.90
1240	4.90	4.30	4.20	3.00
1260	4.40	4.20	4.20	3.00
1280	4.60	4.30	4.20	3.00
1300	4.50	4.30	4.20	3.00
1320	4.50	4.20	4.20	2.90
1340	4.90	4.30	4.20	3.00
1360	4.50	4.30	4.20	3.00
1380	4.50	4.30	4.20	3.00
1400	4.50	4.30	4.20	3.00
1420	4.90	4.30	4.20	3.00
1440	4.60	4.30	4.20	2.90
1460	4.70	4.20	4.20	3.00
1480	4.70	4.30	4.20	2.90
1500	4.60	4.30	4.20	3.00
1520	4.60	4.30	4.20	3.00
1540	4.50	4.20	4.20	2.90
1560	4.60	4.30	4.20	3.00
1580	4.70	4.30	4.20	3.00
1600	4.50	4.30	4.30	3.00
1700	4.70	4.20	4.20	2.90
1950	4.90	4.60	4.50	3.30
2200	4.40	4.30	4.20	3.00
2220	4.40	4.30	4.20	3.00
2240	4.40	4.30	4.20	3.00
2260	4.60	4.20	4.20	3.00
2280	4.70	4.40	4.30	3.00
2300	4.40	4.20	4.20	2.90
2320	4.40	4.30	4.20	3.00
2340	4.30	4.20	4.20	3.00
2360	4.40	4.30	4.20	3.00
2380	4.50	4.30	4.20	3.00
2400	4.50	4.30	4.20	3.00
2500	4.40	4.30	4.20	3.00
2750	4.70	4.60	4.50	3.30
3000	4.40	4.30	4.20	2.90
3020	4.30	4.20	4.20	2.90
3040	4.40	4.30	4.20	2.90
3060	4.30	4.20	4.10	2.80
3080	4.30	4.20	4.20	2.90
3100	4.30	4.20	4.20	2.90
3400	4.30	4.20	4.20	2.90
3420	4.50	4.20	4.20	2.90
3440	4.60	4.40	4.30	3.10
3460	4.30	4.20	4.20	2.90
3480	4.30	4.20	4.20	2.90
3500	4.30	4.20	4.20	2.90
3520	4.40	4.30	4.20	3.00
3540	4.40	4.30	4.20	2.90
3560	4.30	4.20	4.20	2.90
3580	4.40	4.30	4.20	2.90
3600	4.30	4.20	4.20	2.90
3620	4.50	4.40	4.40	3.10
3640	4.30	4.20	4.20	2.90
3660	4.70	4.30	4.20	2.90
3740	4.70	4.30	4.20	3.00
3990	4.60	4.30	4.30	3.00
4240	4.80	4.50	4.30	3.00
4490	4.70	4.40	4.30	3.00
4740	4.50	4.30	4.20	3.00
4990	4.70	4.30	4.30	3.00
5240	4.50	4.20	4.10	2.90
5490	4.40	4.20	4.20	2.90
5740	4.60	4.30	4.30	3.00
5760	4.50	4.20	4.20	2.90
5780	4.50	4.20	4.20	2.90
5800	4.50	4.20	4.10	2.90
5820	4.60	4.20	4.20	2.90
5840	4.50	4.20	4.20	2.90
5860	4.60	4.30	4.20	2.90
5880	4.60	4.30	4.20	2.90
5900	4.60	4.20	4.20	2.90
5920	4.60	4.30	4.20	2.90
5940	4.60	4.20	4.20	2.90
5960	4.80	4.40	4.30	3.00
5980	4.60	4.30	4.20	2.90
6000	4.70	4.30	4.20	3.00
6020	4.70	4.30	4.20	2.90
6040	4.80	4.30	4.20	3.00
6060	4.90	4.30	4.20	3.00
6080	4.70	4.30	4.20	2.90
6100	4.60	4.20	4.20	2.90
6120	4.60	4.20	4.10	2.90
6140	4.60	4.20	4.20	2.90
6160	4.70	4.30	4.20	3.00
6180	4.60	4.30	4.20	2.90
6200	4.70	4.30	4.20	2.90
6220	4.70	4.30	4.20	2.90
6240	4.70	4.30	4.20	2.90
6260	4.70	4.20	4.10	2.80
6280	5.20	4.40	4.20	2.90
6300	4.90	4.20	4.10	2.80
6320	4.90	4.20	4.20	2.90
6340	4.80	4.30	4.20	2.90
6360	4.70	4.30	4.20	2.90
6380	4.70	4.30	4.20	3.00
6400	4.60	4.20	4.10	2.90
6420	4.60	4.20	4.10	2.80
6440	4.80	4.30	4.20	2.90
6460	4.80	4.30	4.20	2.90
6480	4.70	4.20	4.20	2.90
6500	5.10	4.50	4.30	2.90
6800	4.50	4.20	4.10	2.80
6820	4.50	4.20	4.20	2.90
6840	4.70	4.40	4.30	2.90
6860	4.50	4.20	4.20	2.90
6880	4.50	4.20	4.10	2.90
6900	4.70	4.30	4.20	2.90
6920	4.50	4.20	4.20	2.90
6940	4.40	4.20	4.10	2.90
6960	4.40	4.20	4.10	2.90
6980	4.50	4.20	4.20	2.90
7000	4.50	4.30	4.20	2.90
7020	4.60	4.20	4.20	2.90
7040	4.40	4.20	4.10	2.90
7060	4.40	4.20	4.10	2.90
7080	4.90	4.30	4.20	2.90
7100	4.50	4.20	4.10	2.90
7120	4.40	4.20	4.20	2.90
7140	4.40	4.20	4.10	2.90
7160	4.40	4.20	4.10	2.90
7180	5.00	4.60	4.40	3.10
7200	4.40	4.20	4.20	2.90
7220	4.60	4.20	4.20	2.90
7240	4.70	4.30	4.20	2.90
7260	4.40	4.20	4.10	2.90
7280	4.50	4.30	4.20	2.90
7300	4.50	4.20	4.10	2.80
7350	4.80	4.30	4.20	2.90
7600	5.10	4.50	4.30	2.90
7850	4.40	4.20	4.20	2.90
8100	4.30	4.20	4.10	2.90
8120	4.40	4.20	4.10	2.90
8140	5.50	4.80	4.40	2.90
8160	5.20	4.40	4.20	2.90
8180	5.00	4.30	4.20	2.90
8200	4.40	4.20	4.10	2.90
8220	4.60	4.30	4.20	2.90
8240	4.60	4.20	4.10	2.80
8260	4.30	4.20	4.20	2.90
8280	4.50	4.30	4.20	3.00
8300	4.30	4.20	4.10	2.90
8500	4.20	4.10	4.10	2.80
8510	4.40	4.20	4.20	2.90
8520	4.20	4.10	4.10	2.80
8530	4.30	4.20	4.10	2.90
8539	4.30	4.20	4.10	2.80
8550	4.20	4.10	4.10	2.80
8560	4.20	4.10	4.10	2.80
8570	4.30	4.10	4.10	2.80
8580	4.20	4.10	4.10	2.80
8590	4.20	4.10	4.00	2.80
8600	4.20	4.20	4.10	2.80
8605	4.80	4.50	4.30	2.90

1400 COLLAR LOCATOR [MV] 2300

65 TEMPERATURE [DEG F] 85

0.02 AUDIO DETECTION LOG [MV] 200

-2 DIFFERENTIAL TEMPERATURE [DEG F] 2