WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

FILING NO.

COMPANY: SOUTHERN CALIF. GAS CO.
WELL: PORTER 50B
FIELD: ALISO CANYON
COUNTY: KERN
STATE: CALIFORNIA
LOCATION: DISTRICT 2
OTHER SVC:
API NUMBER: 0403724336
SEC: 27 TWN: 3N RNG: 16W
VS|AJ

PERMANENT DATUM: GROUND LEVEL ELEV: 1954.00 FT.
LOG MEASURED FROM KB 22.50' ABOVE PERM DATUM
DRILLING MEASURED FROM

-ELEVATIONS-
KB: 1976.50 Ft.
DF: Ft.
GL: 1954.00 Ft.

DATE LOG RAN	03-08-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1058
EFFECTIVE DEPTH	8520'	CASING PSI			1058
PICKUP DEPTH	7697'	INJECTION RATE		N/A	
BOT LOGGED INT	7697'	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	165.8 F.	OIL Gr.		OIL =	
AT DEPTH	7077.5'	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	LINER TOP				

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
11:40AM - RAN IN HOLE
11:45AM - BEGIN SURVEY
03:30PM - PULL OUT OF HOLE
04:00PM - OFF LOCATION
SAND TAG MARKERS: 7505' S4 [TOP]
7538' S4 [BOTTOM]
7600' S6 [TOP]
8520' S6 [BOTTOM]

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
9.625"	47	SURFACE	7177.8'				
7.000"	26	6748.2'	7480'				
5.000"	18	6620'	8500'				
3.500"	9.3	SURFACE	6615'				

STR.	PIPE DIA.	PERFORATIONS
A	9.625"	6884'-6886', 7084'-7096'.
	7.000"	6884'-6886', 7084'-7096'.
	5.000"	6884'-6886', 7084'-7096', 7382'-7472', 7493'-8495'.
		HES ASI-X PACKERS: 6605.7'-6614.5'.
		GAS LIFT MANDRELS: 6517.1'-6523.2'.
		SLIDING SLEEVES: 6556.8'-6561'.
		NO-GO: 6594.2'.
		ON|OFF TOOL: 6592.2'.

Audio Data: c:\data\noise.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
100	20.80	6.00	3.80	2.40
250	9.00	5.60	3.70	2.20
500	8.70	5.50	3.60	2.20
750	8.00	5.60	3.70	2.20
1000	8.00	5.40	3.60	2.20
1100	7.70	5.40	3.60	2.20
1120	7.80	5.40	3.60	2.20
1140	7.80	5.40	3.60	2.20
1160	7.80	5.40	3.50	2.20
1180	7.80	5.40	3.50	2.20
1200	7.80	5.40	3.60	2.20
1220	7.90	5.40	3.60	2.20
1240	7.80	5.40	3.60	2.20
1260	7.90	5.50	3.60	2.30
1280	7.80	5.40	3.60	2.20
1300	7.80	5.40	3.50	2.20
1320	7.70	5.40	3.50	2.20
1340	7.90	5.40	3.60	2.20
1360	7.80	5.40	3.60	2.20
1380	7.80	5.50	3.60	2.30
1400	7.70	5.30	3.50	2.20
1500	7.70	5.40	3.60	2.20
1750	7.70	5.40	3.60	2.30
2000	7.70	5.30	3.50	2.20
2250	7.70	5.40	3.60	2.30
2500	7.60	5.30	3.50	2.20
2750	7.50	5.30	3.50	2.20
3000	7.60	5.30	3.60	2.30
3250	7.50	5.30	3.60	2.30
3500	7.50	5.30	3.60	2.30
3750	7.50	5.30	3.60	2.30
4000	7.30	5.20	3.50	2.20
4250	7.40	5.20	3.60	2.30
4500	7.30	5.20	3.60	2.20
4750	7.40	5.20	3.60	2.30
4800	7.20	5.20	3.50	2.20
4820	7.20	5.10	3.50	2.20
4840	7.20	5.10	3.50	2.20
4860	7.10	5.10	3.60	2.20
4880	7.20	5.10	3.60	2.30
4900	7.10	5.10	3.50	2.20
4920	7.10	5.10	3.50	2.20
4940	7.20	5.10	3.60	2.30
4960	7.10	5.10	3.60	2.30
4980	7.20	5.10	3.60	2.30
5000	7.20	5.10	3.50	2.30
5020	7.20	5.10	3.60	2.30
5040	7.20	5.10	3.60	2.30
5060	7.20	5.10	3.60	2.20
5080	7.20	5.10	3.60	2.30
5100	7.20	5.10	3.50	2.20
5250	7.20	5.10	3.60	2.30
5500	7.30	5.10	3.50	2.20
5750	7.10	5.00	3.50	2.20
6000	7.00	5.00	3.60	2.30
6250	7.10	5.10	3.60	2.30
6300	7.00	5.00	3.60	2.30
6320	6.90	5.00	3.50	2.20
6340	7.00	5.00	3.60	2.20
6360	7.00	5.10	3.60	2.30
6380	7.00	5.00	3.50	2.20
6400	7.00	5.10	3.60	2.30
6420	7.00	5.10	3.60	2.30
6440	6.90	5.00	3.50	2.30
6460	7.00	5.00	3.60	2.30
6480	6.90	5.00	3.60	2.30
6500	7.00	5.00	3.50	2.30
6550	7.00	5.00	3.60	2.30
6600	7.00	5.00	3.50	2.20
6650	6.90	5.00	3.50	2.20
6700	6.80	5.00	3.50	2.20
6750	6.90	5.00	3.50	2.20
6800	6.80	4.90	3.50	2.20
6850	6.80	4.90	3.50	2.20
6900	6.80	5.00	3.50	2.20
6950	6.90	5.00	3.50	2.20
7000	6.90	5.00	3.50	2.30
7020	6.90	5.00	3.50	2.20
7040	6.90	4.90	3.50	2.20
7060	6.90	5.00	3.50	2.30
7080	6.90	5.00	3.50	2.20
7100	6.70	4.90	3.50	2.20
7120	6.90	5.00	3.50	2.20
7140	6.70	4.90	3.50	2.20
7160	6.80	5.00	3.50	2.20
7180	7.00	5.00	3.50	2.20
7200	6.90	5.00	3.60	2.30
7220	6.90	5.20	3.80	2.60
7240	7.20	5.00	3.60	2.40
7260	6.80	5.00	3.70	2.40
7280	7.20	5.50	4.20	3.00
7300	6.90	5.10	3.70	2.40
7320	6.90	5.00	3.60	2.30
7340	7.50	5.00	3.60	2.30
7360	6.80	4.90	3.50	2.20
7380	6.90	4.90	3.50	2.20
7400	6.80	4.90	3.50	2.20
7420	6.80	4.90	3.50	2.20
7440	6.80	4.90	3.50	2.20
7460	6.70	4.90	3.50	2.20
7480	6.90	5.00	3.60	2.40
7500	6.90	5.00	3.60	2.30
7550	7.20	5.50	4.20	3.00
7600	7.10	5.30	3.90	2.80
7650	7.40	5.60	4.40	3.30
7697	7.10	5.40	4.20	3.10