WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE	GS
COMPANY:	SOUTHERN CALIF. GAS CO.
WELL:	PORTER 69J
FIELD:	ALISO CANYON
COUNTY:	LOS ANGELES
STATE:	CALIFORNIA
LOCATION:	DISTRICT 2
OTHER SVC:	
VS	API NUMBER: 0403724224
SEC: 28	TWN: 3N RNG: 16W

PERMANENT DATUM: GROUND LEVEL ELEV: 2366 Ft.
LOG MEASURED FROM KB 29' ABOVE PERM DATUM
DRILLING MEASURED FROM

-ELEVATIONS-
KB: 2395 Ft.
DF: Ft.
GL: 2366 Ft.

		PRESSURE	FLOWING	INJECTION	SHUT-IN
DATE LOG RAN	03-16-2016	TUBING PSI			1499
RUN NUMBER	ONE	CASING PSI			1499
EFFECTIVE DEPTH	8125'				
PICKUP DEPTH	8012'	INJECTION RATE	N/A		
BOT LOGGED INT	8012'	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	167.5 F.	OIL Gr.	N/A	OIL =	N/A
AT DEPTH	8012.0'	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	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

07:00 AM - ON LOCATION
07:30 AM - RAN IN HOLE
07:45 AM - BEGIN SURVEY
11:00 AM - RAN IN HOLE
11:15 AM - OFF LOCATION

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	874'	2.875"	6.5	SURFACE	7550'
9.625"	47	SURFACE	8234'				
5.000"	15	7552'	8013.32'				
3.500"	9.3	7550'	7674'				

STR.	PIPE DIA.	PERFORATIONS
A	9.625"	7920'-8000'.
		PACKERS: 7551'-7558'.
		MANDRELS: 4436'-4443', 7464'-7471'.
		SLEEVES: 7504'-7511'.
		NO-GO: 7538'.

Audio Data: c:\data\noise.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
100	9.90	5.90	4.40	3.00
250	10.90	6.10	4.50	3.00
500	19.80	6.10	4.30	3.00
520	12.50	6.30	4.80	3.60
540	16.70	5.90	4.20	3.00
560	11.60	5.60	4.10	2.80
580	10.20	6.00	4.50	3.20
600	9.30	5.80	4.30	2.90
620	9.30	5.60	4.10	2.70
640	9.10	5.60	4.00	2.70
660	9.10	5.50	4.00	2.70
680	9.20	5.50	4.00	2.60
700	9.00	5.50	4.00	2.60
720	9.10	5.50	4.00	2.60
740	8.90	5.50	4.00	2.60
760	9.10	5.50	4.00	2.70
780	9.00	5.50	4.00	2.60
800	8.90	5.50	4.00	2.60
820	9.10	5.50	4.00	2.60
840	8.80	5.50	3.90	2.60
860	9.00	5.50	4.00	2.70
880	8.90	5.50	4.00	2.70
900	9.00	5.50	4.00	2.70
1000	8.80	5.50	4.00	2.60
1250	8.70	5.50	4.00	2.60
1550	9.10	5.60	4.00	2.70
1750	9.10	5.50	4.10	2.80
2000	9.40	5.60	4.20	2.90
2250	9.00	5.70	4.40	3.20
2550	8.90	5.50	4.10	2.90
2750	9.00	5.50	4.10	2.80
3000	9.30	5.50	4.10	2.90
3250	9.40	5.60	4.20	3.00
3550	9.60	5.60	4.20	2.90
3750	9.70	5.50	4.10	2.90
4000	10.20	5.50	4.10	2.90
4250	10.60	5.50	4.10	2.90
4550	11.30	5.50	4.10	2.80
4750	11.70	5.60	4.10	2.80
5000	12.30	5.50	4.00	2.70
5250	12.70	5.50	4.00	2.60
5500	12.90	5.50	4.00	2.60
5750	14.00	5.70	4.10	2.60
6000	14.90	6.00	4.20	2.70
6100	15.60	6.20	4.30	2.70
6200	15.20	6.20	4.30	2.70
6300	16.00	6.50	4.40	2.70
6400	16.30	6.90	4.60	2.80
6500	17.00	7.20	5.00	2.90
6550	17.00	7.50	5.10	3.10
6600	17.80	7.60	5.30	3.00
6650	17.90	7.80	5.50	3.10
6700	17.80	8.30	6.00	3.40
6750	18.40	8.70	6.30	3.70
6800	19.40	9.50	7.20	4.10
6820	19.50	9.50	7.20	4.30
6840	20.20	9.80	7.60	4.60
6860	20.20	10.10	7.80	4.40
6880	19.90	10.20	7.90	4.50
6900	20.10	10.50	8.40	5.10
6920	20.50	11.10	8.90	5.50
6940	20.70	11.40	9.30	5.90
6960	20.90	11.60	9.20	5.30
6980	22.00	11.90	9.80	6.00
7000	21.60	12.30	10.20	7.00
7020	21.80	12.40	10.30	6.60
7040	22.30	13.20	11.20	7.70
7060	22.70	13.60	11.50	7.70
7080	22.80	13.90	11.80	7.60
7100	23.60	14.80	12.90	9.30
7120	24.10	15.30	13.30	9.50
7140	24.40	15.70	13.70	9.60
7160	25.00	16.60	14.90	11.40
7180	25.70	17.20	15.30	11.50
7200	25.60	18.00	16.40	12.70
7220	26.90	18.50	16.70	13.10
7240	27.30	19.30	17.50	13.40
7260	28.40	20.80	19.20	15.70
7280	28.40	20.80	19.10	15.50
7300	29.90	22.20	20.60	17.00
7310	30.60	23.50	22.10	18.50
7320	30.90	23.30	21.80	18.20
7330	31.00	23.80	22.40	18.90
7340	31.70	23.50	22.00	18.20
7350	30.30	23.00	21.40	17.10
7360	31.60	24.60	23.00	18.70
7370	31.30	24.10	22.50	17.80
7380	32.90	25.60	24.20	20.10
7390	32.20	25.70	24.20	20.00
7400	32.30	25.30	23.70	19.40
7410	32.00	24.90	23.30	18.60
7420	33.10	26.70	25.30	20.80
7430	34.90	28.10	26.70	21.90
7440	35.30	28.30	26.90	22.90
7450	34.80	28.10	26.60	22.20
7460	28.00	24.40	23.60	21.50
7470	46.20	39.20	37.50	31.50
7480	45.10	38.50	37.10	31.60
7490	43.50	36.40	34.80	28.80
7500	83.10	44.30	42.40	37.20
7510	84.20	56.30	53.80	47.30
7520	84.10	58.80	56.50	50.60
7530	83.00	54.90	52.50	46.30
7540	88.30	64.40	62.00	56.00
7550	78.20	73.60	72.80	68.80
7560	69.40	67.60	67.10	61.70
7570	59.40	57.30	56.60	52.30
7580	55.30	52.20	51.40	47.00
7590	56.40	52.80	51.90	48.80
7600	51.50	47.60	46.60	43.60
7610	48.50	43.80	42.90	39.80
7620	49.70	44.60	43.50	40.80
7630	50.10	46.00	45.00	42.40
7640	47.20	42.80	41.50	38.10
7650	38.60	33.70	32.50	28.80
7660	43.20	38.70	37.70	34.70
7670	36.40	30.80	29.50	26.20
7680	34.80	28.70	27.50	23.70
7690	39.80	34.90	33.90	31.20
7700	33.10	28.80	27.70	24.30
7710	35.10	31.50	30.60	27.20
7720	29.90	26.00	24.70	20.90
7730	31.20	28.60	27.70	24.20
7740	17.30	11.80	9.40	7.20
7750	12.90	7.30	6.00	4.70
7800	9.20	5.80	4.40	3.20
7900	10.30	5.90	4.30	3.00
8012	358.30	198.10	184.30	163.40

1525 COLLAR LOCATOR [MV] 1925

75 TEMPERATURE [DEG F] 95

0.02 AUDIO DETECTION LOG [MV] 200