WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE	GS
COMPANY	SOUTHERN CALIF. GAS CO.
WELL	ALISO CANYON 9
FIELD	ALISO CANYON
COUNTY	LOS ANGELES
STATE	CALIFORNIA
DISTRICT	2
OTHER SVC	

API NUMBER	04019000		
SEC: 28	TWN: 2N	RNG: 16W	
PERMANENT DATUM: GROUND LEVEL		ELEV: 2836 Ft.	
LOG MEASURED FROM KB 7' ABOVE PERM DATUM			
DRILLING MEASURED FROM			

-ELEVATIONS-
KB: 2843 Ft.
DF: 2842 Ft.
GL: 2836 Ft.

CR	DATE LOG RAN	12-02-2015	
	RUN NUMBER	ONE	
	BOT LOGGED INT	2000'	
	TOP LOGGED INT	100'	
	WELL STATUS	SHUT IN	
	FLUID IN WELL	GAS	
	FLUID LEVEL	N/A	
	TEMPERATURE SENS	4 F/DIV	
	LOGGING SPEED	100 FPM	
	WITNESSED BY	A. KARGAR	
	EMAIL TO	N/A	
	DEPTH CORRELATION	N/A	

PRESSURE			
FLOWING	INJECTION	SHUT-IN	
TUBING PSI		2148	
CASING PSI		2148	
INJECTION RATE	N/A	N/A	
OBSERVED RATE			
R/A SOURCE	N/A	N/A	
R/A SOURCE	N/A	N/A	
HALF LIFE	N/A	N/A	

PRODUCTION DATA		
OIL Gr.		
GAS Gr.	GAS=	
BHP=	MPP	
WATER=		

Equipment Data

COLLAR LOCATOR	1.375"
TEMPERATURE TOOL	1.375"
AUDIO DETECTOR	1.375"

Remarks/Survey Results

SAND TAG MARKERS: 8360' TOP MP
8542' TOP S1
8615' TOP S4
8654' TOP S6
8712' TOP S8

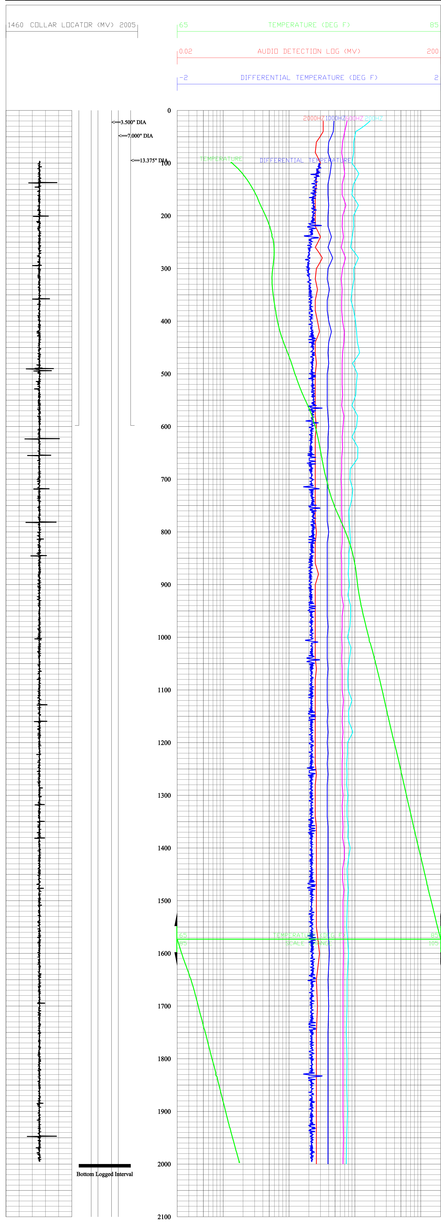
CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	55.0	SURFACE	59F				
7.000"	29.0	SURFACE	8625'				
5.500"	18.0	8599'	8859'				
3.500"	9.3	SURFACE	8551'				

PERFORATIONS

STR.	PIPE DIA.	
A	5.500"	8632'-8859'.
		PACKERS: 8544'-8560'.
		GAS LIFT MANDRELS: 8436'-8441.9'.
		SLIDING SLEEVES: 8472.9'-8473.9'.
		NO-GO: 8505.9'.
		DHSV: 490'.

TOOL DIAGRAM

Audio Data: C:\data\NOISE.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
20	17.00	7.60	4.80	3.30
40	10.30	7.00	4.70	3.30
60	9.60	6.50	4.00	2.60
80	9.60	6.30	3.90	2.50
100	9.00	6.70	4.40	3.00
120	11.50	7.00	4.20	2.60
140	9.50	6.40	3.90	2.60
160	9.00	6.40	3.90	2.50
180	11.30	7.30	4.00	2.50
200	9.50	6.40	3.90	2.50
220	9.60	6.40	3.90	2.50
240	9.30	6.70	4.40	3.00
260	8.60	6.20	3.90	2.50
280	11.30	7.20	4.60	3.20
300	9.60	6.50	3.90	2.60
320	9.70	6.20	3.80	2.50
340	9.10	6.40	4.10	2.70
360	8.70	6.30	3.80	2.50
380	9.60	6.30	3.80	2.50
400	10.20	6.50	4.00	2.70
420	10.60	6.90	4.40	2.90
440	10.90	6.80	4.00	2.50
460	11.80	6.50	3.90	2.50
480	9.20	6.40	4.00	2.60
500	10.90	6.40	3.80	2.50
520	10.50	6.40	3.80	2.50
540	10.30	6.50	3.80	2.50
560	9.00	6.30	3.80	2.50
580	11.00	6.80	3.90	2.50
600	10.60	6.60	4.00	2.60
620	9.00	6.40	3.90	2.50
640	11.10	6.50	3.90	2.50
660	11.00	6.30	3.80	2.50
680	8.50	6.30	3.80	2.50
700	8.40	6.20	3.80	2.50
720	9.30	6.30	3.80	2.50
740	8.90	6.30	3.80	2.50
760	8.10	6.30	3.80	2.50
780	8.20	6.40	3.80	2.50
800	8.40	6.40	4.00	2.60
820	8.60	6.40	3.80	2.50
840	8.10	6.20	3.80	2.50
860	8.10	6.30	3.80	2.50
880	7.90	6.30	3.80	2.80
900	8.30	6.30	3.80	2.50
920	7.80	6.30	3.80	2.50
940	8.60	6.70	3.80	2.50
960	8.60	6.40	3.80	2.50
980	8.40	6.40	3.90	2.50
1000	7.70	6.30	3.80	2.50
1020	8.70	6.40	3.80	2.50
1040	8.30	6.30	3.80	2.50
1060	7.90	6.40	3.90	2.60
1080	7.80	6.40	3.80	2.50
1100	7.90	6.40	3.80	2.50
1120	9.00	6.70	3.80	2.50
1140	8.00	6.50	3.90	2.50
1160	8.10	6.40	3.80	2.50
1180	9.30	6.60	3.90	2.50
1200	7.70	6.40	3.80	2.50
1220	7.70	6.50	3.90	2.50
1240	7.50	6.40	3.80	2.50
1260	7.60	6.40	3.90	2.60
1280	7.50	6.40	3.80	2.50
1300	7.80	6.60	3.80	2.50
1320	7.60	6.40	3.80	2.50
1340	7.60	6.50	3.80	2.50
1360	7.90	6.60	3.90	2.60
1380	7.80	6.50	3.90	2.60
1400	8.50	6.90	3.90	2.60
1420	8.00	6.90	3.90	2.60
1440	7.60	6.50	3.90	2.60
1460	7.70	6.50	3.90	2.60
1480	7.90	6.80	3.90	2.60
1500	7.70	6.40	3.90	2.60
1550	7.50	6.60	3.90	2.60
1600	8.00	6.70	4.10	2.90
1650	7.60	6.40	3.90	2.60
1700	7.60	6.60	4.00	2.70
1750	7.40	6.60	3.90	2.60
1800	7.60	6.60	3.90	2.60
1849	7.50	6.60	3.90	2.60
1900	7.70	6.60	3.90	2.60
1950	7.50	6.70	3.90	2.60
2000	7.40	6.60	3.90	2.60