WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE: GS, OG

COMPANY: SOUTHERN CALIF. GAS CO.
WELL: PORTER 69A
FIELD: ALISO CANYON
COUNTY: LOS ANGELES   STATE: CALIFORNIA
LOCATION: DISTRICT 2   OTHER SVC:

AJ

API NUMBER: 0403722051
SEC: 28   TWN: 3N   RNG: 16W

PERMANENT DATUM: GROUND LEVEL   ELEV: 2368.00 FT.
LOG MEASURED FROM K.B. 21' ABOVE PERM DATUM
DRILLING MEASURED FROM

-ELEVATIONS-
KB: 2389.00 Ft.
DF: Ft.
GL: 2368.00 Ft.

DATE LOG RAN	03-14-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			1309
EFFECTIVE DEPTH	7869'	CASING PSI			1309
PICKUP DEPTH	N/A	INJECTION RATE		N/A	
BOT LOGGED INT	7550'	OBSERVED RATE		N/A	
TOP LOGGED INT	25'	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	SHUT-IN		PRODUCTION DATA		
MAX TEMPERATURE	151.7 F.	OIL Gr.		OIL =	
AT DEPTH	7309.5'	GAS Gr.		GAS=	
TEMPERATURE SENS	1 F/DIV.	MPP		BHP =	
LOGGING SPEED	100 FPM			WATER=	
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"		

Remarks/Survey Results

7:00AM ON LOCATION
8:24AM RAN IN HOLE
8:24AM BEGIN SURVEY
11:30AM PULL OUT OF HOLE
11:45AM OFF LOCATION
SANDTAG MARKERS: 7365' TOP MP
7592' TOP S1
7700' TOP S4
7775' TOP S8
7975' TOP FREW

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	1001'	1.25"		7584'	7845.22'
9.625"	47	SURFACE	7700'				
5.500"	17	7623'	7870'				
2.875"	6.5	SURFACE	7584'				

STR.	PIPE DIA.	PERFORATIONS
A.	9.625"	WSO: 7572'-7573' WSO: 7574'-7575'
		PACKERS: 7556.9'-7560.1'.
		GAS LIFT MANDRELS: 4408.9'-4414.95', 7471.6'-7477.7'.
		SLIDING SLEEVES: 7511'-7514.9', 7570.1'-7573.97'.
		NO-GO: 7585.1', 7549.8'.

TOOL DIAGRAM

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

Audio Data: c:\data\noise.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ
50	8.20	7.60	4.30	2.90
100	8.30	7.90	4.40	2.90
150	8.70	7.60	4.30	3.00
400	8.30	7.80	4.30	2.90
650	7.80	7.60	4.30	3.00
900	7.90	7.50	4.30	2.90
910	7.70	7.40	4.20	2.90
920	7.80	7.50	4.30	3.00
930	7.80	7.50	4.30	2.90
940	7.70	7.50	4.20	2.90
950	7.80	7.50	4.20	2.90
960	7.60	7.40	4.20	2.90
970	7.80	7.50	4.30	2.90
980	7.80	7.50	4.20	2.90
990	7.70	7.40	4.20	2.90
1000	7.70	7.40	4.20	2.90
1010	7.90	7.60	4.20	2.90
1050	7.90	7.60	4.50	3.20
1300	7.70	7.40	4.30	2.90
1550	7.70	7.40	4.20	2.90
1800	7.70	7.40	4.30	3.00
2050	7.60	7.40	4.20	2.90
2300	7.70	7.50	4.30	3.00
2550	7.70	7.40	4.30	2.90
2800	7.70	7.40	4.30	2.90
3050	7.50	7.30	4.30	3.00
3300	7.40	7.20	4.20	2.90
3550	7.50	7.30	4.30	3.00
3800	7.40	7.20	4.20	2.90
4050	7.40	7.20	4.20	2.90
4300	7.30	7.20	4.20	2.90
4320	7.40	7.20	4.30	2.90
4340	7.50	7.30	4.30	2.90
4360	7.30	7.20	4.30	2.90
4380	7.40	7.20	4.30	2.90
4400	7.40	7.20	4.30	2.90
4420	7.40	7.20	4.30	2.90
4440	7.30	7.20	4.20	2.90
4460	7.30	7.20	4.30	2.90
4480	7.40	7.20	4.20	2.90
4500	7.40	7.20	4.30	2.90
4630	7.40	7.20	4.30	2.90
4880	7.40	7.20	4.40	3.00
5130	7.60	7.40	4.70	3.30
5380	7.30	7.10	4.30	2.90
5630	7.20	7.00	4.30	3.00
5880	7.20	7.10	4.30	3.00
6130	7.20	7.00	4.30	3.00
6380	7.20	7.00	4.30	3.00
6630	7.40	7.20	4.50	3.20
6880	7.60	7.10	4.40	3.10
7130	7.30	7.10	4.40	3.00
7380	7.30	7.10	4.30	3.00
7390	7.60	7.20	4.40	3.00
7400	7.30	7.00	4.30	3.00
7410	7.60	7.40	4.40	3.00
7420	7.50	7.20	4.40	3.00
7430	7.60	7.30	4.40	3.00
7440	7.50	7.30	4.40	3.00
7450	7.60	7.30	4.40	3.00
7460	7.50	7.30	4.40	3.00
7470	7.60	7.30	4.40	3.00
7480	7.50	7.20	4.40	3.00
7490	7.80	7.50	4.40	2.80
7500	7.50	7.20	4.40	3.00
7510	7.60	7.40	4.30	2.90
7520	8.50	7.80	4.80	3.20
7530	8.00	7.80	4.40	3.00
7540	8.00	7.60	4.90	3.30
7550	7.40	7.20	4.40	3.00