C:\DATA\PORTER 40.LAS

WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

COMPANY:	SOUTHERN CALIF. GAS CO
WELL:	PORTER 40
FIELD:	ALISO CANYON
COUNTY:	LOS ANGELES
STATE:	CALIFORNIA
LOCATION:	DISTRICT 2
OTHER SVC:	
WELL TYPE	GS
API NUMBER:	0403700727
SEC: 28	TWN: 3N RNG: 16W
LAW	

PERMANENT DATUM: GROUND LEVEL ELEV: 2648 FT.
LOG MEASURED FROM KB 9' ABOVE PERM DATUM
DRILLING MEASURED FROM

-ELEVATIONS-
KB: 2657 Ft.
DF: Ft.
GL: 2648 Ft.

DATE LOG RAN	04-05-2016	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI		0	
EFFECTIVE DEPTH	9212'	CASING PSI		N/A	
PICKUP DEPTH	8940'	INJECTION RATE		N/A	
BOT LOGGED INT	8940'	OBSERVED RATE		N/A	
TOP LOGGED INT	25'	R/A SOURCE		N/A	
TYPE OF INJECT	NONE	ACTIVITY		N/A	
FLUID IN WELL	W/G	HALF LIFE		N/A	
FLUID LEVEL	1210'				
WELL STATUS	STATIC	PRODUCTION DATA			
MAX TEMPERATURE	184.7 F.	OIL Gr.		OIL =	
AT DEPTH	8940'	GAS Gr.		GAS=	
TEMPERATURE SENS	1 F/DIV.	MPP		BHP =	
LOGGING SPEED	100 FPM			WATER=	
RECORDED BY	C. FITZPATRICK				
WITNESSED BY	N/A				
EMAIL TO	A.KARGAR				
DEPTH CORRELATION	N/A				

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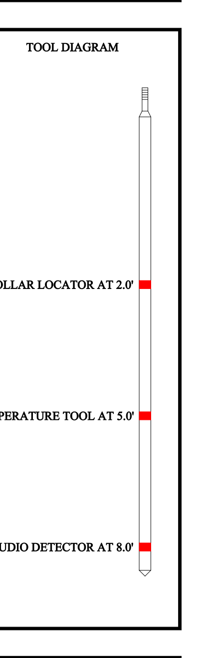
Equipment Data			
Collar Locator	1.375"		
Temperature Tool	1.375"		
Audio Detector	1.375"		

TOOL DIAGRAM



Remarks/Survey Results

11:30 AM - ON LOCATION
12:00 PM - RAN IN HOLE
12:15 PM - BEGIN SURVEY
SAND TAG MARKERS: 8730' TOP MP
8950' TOP S1
9028' TOP S4
9162' TOP S8

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
13.375"	55	SURFACE	1060'	2.875"	6.5	SURFACE	8943'
7.000"	29	SURFACE	9010'				
5.000"	18	8979'	9207'				
2.875"	6.5	8962'	9203'				

STR.	PIPE DIA.	PERFORATIONS
A	7.000"	WSO: 8868'
	5.000"	Slotted: 9012'-9207', 9030'-9080', 9082'-9094'.
	2.875"	9028'-9203'.
		PACKERS: 8940'-8943'.
		MANDRELS: 8862'.
		SLEEVES: 8904'.
		NO-GO: 8928'.

Audio Data: c:\data\NOISE.txt

DEPTH	200HZ	600HZ	1000HZ	2000HZ	
75	17.60	3.80	3.30	0.70	
150	23.30	3.70	3.40	0.80	
250	23.10	3.70	3.30	0.80	
350	23.90	3.70	3.40	0.80	
450	6.80	3.40	3.20	0.70	
550	3.70	3.40	3.20	0.80	
650	6.70	3.50	3.30	0.90	
725	19.80	3.50	3.30	0.80	
775	23.70	3.40	3.20	0.80	
800	12.50	3.40	3.20	0.70	
825	24.80	3.40	3.20	0.80	
850	28.00	3.60	3.30	0.80	
880	12.90	3.50	3.30	0.80	
900	19.30	3.70	3.40	0.80	
920	16.50	3.40	3.10	0.70	
940	11.50	3.60	3.40	0.80	
960	8.90	3.60	3.40	0.80	
980	5.90	3.80	3.50	0.80	
1000	3.90	3.80	3.50	0.80	
1020	4.60	3.80	3.50	0.90	
1040	4.90	3.70	3.40	0.90	
1060	4.50	3.40	3.10	0.70	
1080	4.80	3.60	3.20	0.70	
1100	4.20	3.50	3.20	0.70	
1120	3.90	3.60	3.30	0.70	
1140	5.20	3.60	3.20	0.70	
1160	5.10	3.50	3.10	0.70	
1180	6.20	4.10	3.80	0.80	
1200	5.00	4.50	3.90	0.90	Fluid Level @ 1210' out of water
1220	5.10	3.90	3.40	0.90	
1240	5.50	4.10	3.70	1.00	
1260	5.40	3.90	3.30	0.80	
1280	5.80	3.70	3.20	0.70	
1300	6.10	4.50	3.80	0.80	
1450	6.70	4.40	3.70	0.70	
1700	6.40	4.20	3.40	0.70	
1950	6.20	4.10	3.20	0.70	
2200	5.80	3.90	3.20	0.70	
2450	5.50	3.80	3.10	0.70	
2700	4.90	3.70	3.20	0.70	
2950	4.40	3.60	3.10	0.70	
3200	4.20	3.50	3.10	0.70	
3450	3.90	3.40	3.10	0.70	
3700	4.10	3.50	3.20	0.70	
3950	3.60	3.50	3.10	0.70	
4200	3.70	3.50	2.90	0.70	
4450	4.20	3.50	2.90	0.70	
4700	3.80	3.50	2.80	0.70	
4950	3.90	3.50	2.90	0.70	
5200	3.80	3.50	2.90	0.70	
5450	3.90	3.50	2.90	0.70	
5700	3.70	3.50	2.90	0.70	
5950	3.90	3.50	2.90	0.70	
6200	3.60	3.50	2.90	0.70	
6450	3.90	3.50	2.90	0.70	
6700	4.10	3.50	2.90	0.70	
6950	3.70	3.60	2.90	0.70	
7200	3.90	3.70	3.00	0.80	
7450	4.10	3.90	3.20	0.80	
7699	4.70	3.90	3.30	0.90	
7950	4.00	3.80	3.10	0.80	
8200	4.30	4.10	3.40	0.90	
8450	4.20	3.90	3.30	0.90	
8700	3.70	3.60	2.90	0.80	
8710	3.80	3.70	3.00	0.80	
8720	3.70	3.60	2.90	0.80	
8730	3.70	3.60	2.90	0.80	
8740	3.80	3.70	3.00	0.80	
8750	3.70	3.60	2.90	0.80	
8760	3.70	3.60	2.90	0.80	
8770	3.80	3.70	3.00	0.80	
8780	3.80	3.70	3.00	0.80	
8790	3.70	3.60	2.90	0.80	
8800	3.70	3.60	2.90	0.80	
8810	3.70	3.60	3.00	0.80	
8820	3.70	3.60	2.90	0.80	
8830	3.60	3.50	2.90	0.80	
8840	3.60	3.50	2.90	0.80	
8850	3.60	3.50	2.90	0.80	
8860	3.60	3.50	2.90	0.80	
8870	3.70	3.60	2.90	0.80	
8880	3.70	3.60	2.90	0.80	
8890	3.80	3.60	2.90	0.80	
8900	3.90	3.70	3.10	0.90	
8910	3.80	3.70	3.00	0.90	
8920	3.90	3.80	3.00	0.90	
8925	3.90	3.60	2.80	0.70	

1490 COLLAR LOCATOR [MV] 1990

70 TEMPERATURE [DEG F] 90

0.02 AUDIO DETECTION LOG (MV) 200

-2 DIFFERENTIAL TEMPERATURE [DEG F] 2