



WELL ANALYSIS CORPORATION

AUDIO DETECTION SURVEY

WELL TYPE: COMPANY: SOUTHERN CALIF. GAS CO.
 GS OG: WELL: WARD 3A
 FIELD: ALISO CANYON
 COUNTY: LOS ANGELES STATE: CALIFORNIA
 LOCATION: DISTRICT 2
 OTHER SVC:

API NUMBER: 040722406 RNG: 16W
 SEC: 27 TWP: 3N ELEV: 2226.00'
 PERMANENT DATUM: GROUND LEVEL
 LOG MEASURED FROM: FB 19' PERM DATUM
 ELEVATIONS: KB: 2245.00 Ft.
 DI: Ft.
 DISTINGUISHING MEASURED FROM: GL: 2226.00 Ft.

DWELL LOG RAN: 04-01-2016 PRESSURE: FLOWING INJECTION SHUT-IN
 RUN NUMBER: ONE TURNING PSI: 1033

EFFECTIVE DEPTH: 7661' CASING PSI: 1033
 PICKUP DEPTH: 7645' INJECTION RATE: N/A
 BOT LOGGED INT: 7645' OBSERVED RATE: N/A
 TOP LOGGED INT: 100' RA 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
 MAX TEMPERATURE: 174.2 F OIL G: N/A
 AT DEPTH: 7635.0' GAS G: N/A
 TEMPERATURE SENS: 1 F/DIV MPP N/A
 LOGGING SPEED: 100 FPM BHH: N/A
 DPROCKESI: WATER: N/A
 WITNESSED BY: N/A
 EMAIL TO: AKARGAR

Equipment Data

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

Remarks/Survey Results

10:30AM - ON LOCATION
 10:45AM - RAN IN HOLE
 10:50AM - BEGIN SURVEY
 02:15PM - PULL OUT OF HOLE
 02:30PM - OFF LOCATION

SAND TAG MARKERS: 7450' TOP S4

CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO
13.375"	54.5	SURFACE	1000'
8.625"	36.4	SURFACE	7401'
5.50"	20	7264'	7658'
3.50"	9.3	SURFACE	7242'

PERFORATIONS

STR	PIPE DIA	PACKERS	7236'
A	5.50"	7400'-7658'	

GAS LIFT MANDRELS: 7134'
 SLIDING SLEEVES: 7167'
 NO-GO: 7199'

