State of California
Department of Conservation
Division of Oil, Gas, and Geothermal Resources

No. T _____

MECHANICAL INTEGRITY TEST (MIT)

Operator: So Cal Gas					Well: Fernando Fee 32A
Sec. 27	T. 3N	R. 16	B.&M. W	API No.: 037-21872	Field: Aliso Canyon
County: Los Angeles					Witnessed/Reviewed on: C. Knight 3/8/15

C. Knight, representative of the supervisor, was present from 0900 to 1230.

Also present were: Nick Arbour (Interact), Sergio Macias, Chris Maniesa

Casing record of the well:

19 - 990'	13 3/8"	Surface Casing
3433 - 7022'	8 5/8"	production Casing
6566 - 7250'	7"	Casing joints
1 - 7090'	3 1/2"	Tubing
7078 - 7080'	6"	Packer G6 Mech
7032 - 7036	3 1/2"	Sliding Sleeve
7118 - 7128'	5 1/2"	Liner
7128 - 7148	5"	Liner
7148 - 7268	4 1/2"	Liner
7268 - 7270	6"	Crossover
7270 - 7474	6"	wire wrapped screen
7474 - 7479	4 1/2"	Circulating shoe
7125 - 7126	5 1/2"	sliding sleeve (open)
7113.5'	5 7/8"	Liner packer
7188 - 7268'	4 1/2	slotted liner (perfs upper)

100'/min Temp Survey Speed

The MIT was performed for the purpose of perform temp survey and noise log survey. Follow up any temp anomaly with noise log (detailed)

☐ The MIT is approved since it indicates that all of the injection fluid is confined to the formations below 7078 feet at this time.

☐ The MIT is not approved due to the following reasons: (specify)

Well:	Date:	Time:
Observed rate: B/D	Meter rate: B/D	Fluid level: none feet
Injection pressure: 1051 psi	MASP:	Pick-up depth: 7452 feet

Initial annulus pressure: 1051 psi	Pressure after bleed-off: no bleed psi
Casing vented during test (Y/N)	Survey company: Well Analysis Corp.

SPINNER COUNTS

DEPTH	COUNTS	RATE	DEPTH	COUNTS	RATE	COMMENTS:

TRACER CASING AND TUBING RATE CHECKS

Interval	Time (sec.)	Rate (B/D)	Background log: NA to NA
			COMMENTS: Temp survey anamalysi 5240 - 5300' (possible water flood zone?) Water disposal wells is off.

TOP PERFORATION CHECK

Top perforation depth: 7188 - 7474	Wait at: for seconds	~~Beads: (Y/N)~~
Casing shoe at: 7250	WSO holes at:	Arrival time: *Calculated* *Actual*

LOG FROM	TO	SLUG @	LOG FROM	TO	SLUG @	COMMENTS:

PACKER CHECK

Packer at: 7078	Wait at: for seconds	~~Beads: (Y/N)~~
Tubing tail at: 7090	Tubing size: 3 1/2	2nd Packer at:	Mandrel: Gas lift 6992

LOG FROM	TO	SLUG @	LOG FROM	TO	SLUG @	COMMENTS:

COMMENTS: Water flood "off" ~5300' as seen in current temp survey. Past temp survey had shown water flood clearly