

GAS DATA

Gas Transmission Aerial Leak Survey – as of October 2nd

Current Progress

	<u>Current Location</u>	<u>Miles Planned</u>	<u>Miles Surveyed</u>	<u>Next Day Location</u>
Unit 1	Sacramento	150	190	Meridian/North Valley
Unit 2	Fresno/Yosemite	150	165	Yosemite/Stockton
Unit 3	Fresno	0	0	San Jose

Overall Progress – Goal: 6755 miles

<u>Miles Surveyed</u>	<u>Planned</u>	<u>Actual</u>	<u>HCA</u>
Cumulative	3515	2486	456
Percent Complete	52%	36.8%	

Leaks (see tables at right)

Indications to date: 128(including 15 on Oct 2nd)
 Field Investigation Complete: 89 (3 leaks were verified for a single indication)
 Actual leaks: 35 (14 station piping with work request initiated for repair)

Helicopter Patrol Report	Total Indications	Field Verification					
		1	2+	2	3	Station Piping	No Leak Found
Large	33		1		13	7	10
Medium	14				3	1	2
Small	81	0	1	0	17	6	33
Total	128	0	2	0	33	14	45

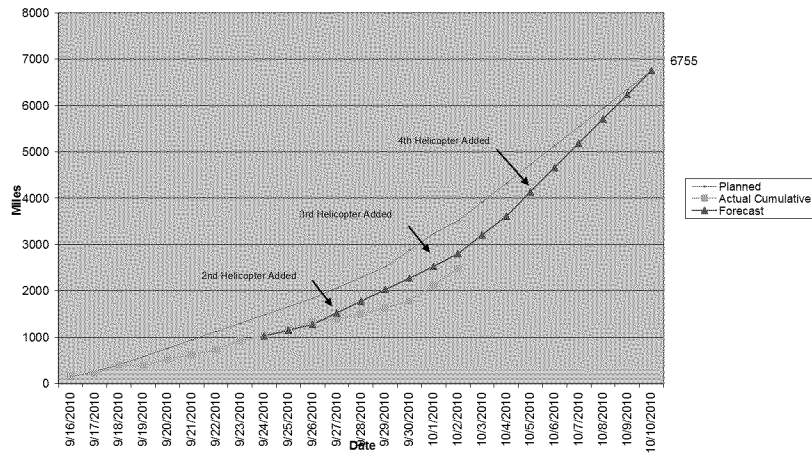
Leak Classification						HCA Leaks				
	1	2+	2	3	Total	Grade				
Trans		2		14	16					
DFM										
Gathering				5	5					
Station Piping				14	14	HCA	1	2+	2	3
								1		10

Transmission Leaks Per Mile Comparison		
Year	No. of Leaks	Leaks per Mile
2008	173	0.026
2009	273	0.041
Aerial Survey	35	0.0196*

Notes:
 2008 was beginning of Dist. ALS
 2009 Dist. ALS in full swing
 * based on 1783 miles to date

F-457681

**Miles Helicopter Patrol
 Planned Miles vs. Actual Miles Patrolled**



Result Summary

- **Surveys From Sept. 15th to Oct 2nd:** 89 of 128 indications have been field verified
- **Survey From Oct 2nd:** Miles of pipe flown on 10/2 was 355. Helicopter #1 flew in Sacramento and Sierra divisions and surveyed 190 miles, Unit #2 flew in Fresno and surveyed 165 miles.
- **Future Survey:** Schedule for 10/4: Unit #1 is planned to survey Meridian district. Unit #2 is planned to survey Yosemite Division. Unit #3 is planned to survey San Jose div. and DeAnza div.
- **Other:** The contract with ATS helicopters has been completed, approved and signed. Lasen unit #3 helicopter arrived on 10/2/10, the Lidar unit was repaired and the unit is scheduled to fly on 10/3/10. On 10/3/10 unit #1 completed the Sacramento div. and is performing helicopter maintenance required by hours of operation. Unit #1 will relocate farther North on 10/4/10 and begin surveying in the Meridian and North Valley area.
- **Completed: [updated]** San Bruno Mt., Diablo Division, East Bay Division, Los Medanos District, McDonald Island District, Milpitas District, Rio Vista District, Tracy District, Mission, North Bay, **Sierra, Sacramento**
- **Delays:**
 - Limited due to fog and/or high winds: 9/17, 9/18, 9/21
 - Days off for flight crew. 9/19, 9/29
 - Limited due to LIDAR unit malfunction: 9/22, 9/27, 9/30 (Unit #2)
 - Other: 9/28 (Unit #1 transmission issue, Unit #2 limited by power outage at fueling station)

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