

Known Surface Expressions in California

Disclaimers

1. Several of the reportable incidents that appear in the same field on a relatively close cluster of dates represent the reactivation of a previously reported surface expression. They may be indicative of a situation where an operator, under the supervision of DOGGR, attempted to modify well operations to control the migration of fluids from the shallow formation to the surface.
2. Once contained by cisterns, a surface expression is no longer a new “spill,” as the fluids were encased and controlled. However, if a containment cistern subsequently leaks, that may be counted as a separate surface expression incident.
3. Unless there was a reportable oil volume, flows from existing expressions did not get into DOGGR’s CalWIMS database and are not included. The CalWIMS database does not have a data element that is specific to surface expressions; those listed in the table below are representative of events noted by staff comments that reflect an observation about possible surface expressions related to a reportable spill.
4. Data in this table originates from both a search DOGGR's CalWIMS database looking for attributes associated with surface expressions and a manual review of paper records. Some of the incidents identified may have causes other than those typically associated with a surface expression, such as a shallow casing leak, a surface spill, or other oil production related activity. In addition to including some incidents that, in the end, may not have been attributable to surface expressions, the list also may not include all surface expression events that occurred between 2012 and 2017.

Surface Expressions 2012 Through 2017

Date Detected	Field Name	District	County
1/1/2012	Midway-Sunset	Inland	Kern
1/16/2012	Orcutt	Coastal	Santa Barbara
3/5/2012	Midway-Sunset	Inland	Kern
3/5/2012	Cymric	Inland	Kern
3/10/2012	Midway-Sunset	Inland	Kern
4/27/2012	Lost Hills	Inland	Kern
4/27/2012	Orcutt	Coastal	Santa Barbara
5/4/2012	Lost Hills	Inland	Kern
5/14/2012	Orcutt	Coastal	Santa Barbara
5/21/2012	Midway-Sunset	Inland	Kern
5/25/2012	Orcutt	Coastal	Santa Barbara
8/7/2012	McKittrick	Inland	Kern
8/15/2012	McKittrick	Inland	Kern
8/23/2012	Orcutt	Coastal	Santa Barbara
9/18/2012	Orcutt	Coastal	Santa Barbara
9/24/2012	Midway-Sunset	Inland	Kern
10/3/2012	Orcutt	Coastal	Santa Barbara
10/29/2012	Lost Hills	Inland	Kern
11/2/2012	Midway-Sunset	Inland	Kern
11/2/2012	Midway-Sunset	Inland	Kern

11/6/2012	McKittrick	Inland	Kern
11/7/2012	Lost Hills	Inland	Kern
11/11/2012	Orcutt	Coastal	Santa Barbara
11/12/2012	Midway-Sunset	Inland	Kern
11/12/2012	Orcutt	Coastal	Santa Barbara
11/19/2012	Orcutt	Coastal	Santa Barbara
11/26/2012	Midway-Sunset	Inland	Kern
12/1/2012	Midway-Sunset	Inland	Kern
12/4/2012	Orcutt	Coastal	Santa Barbara
1/13/2013	Midway-Sunset	Inland	Kern
1/15/2013	Midway-Sunset	Inland	Kern
1/16/2013	Midway-Sunset	Inland	Kern
1/16/2013	Midway-Sunset	Inland	Kern
3/6/2013	Midway-Sunset	Inland	Kern
3/12/2013	Midway-Sunset	Inland	Kern
3/13/2013	Cymric	Inland	Kern
3/23/2013	Midway-Sunset	Inland	Kern
3/24/2013	Midway-Sunset	Inland	Kern
3/24/2013	Midway-Sunset	Inland	Kern
3/28/2013	Cymric	Inland	Kern
4/1/2013	Orcutt	Coastal	Santa Barbara
4/2/2013	Midway-Sunset	Inland	Kern
4/25/2013	Orcutt	Coastal	Santa Barbara
4/28/2013	Midway-Sunset	Inland	Kern
5/8/2013	Midway-Sunset	Inland	Kern
5/9/2013	Midway-Sunset	Inland	Kern
5/10/2013	Belridge, South	Inland	Kern
5/27/2013	Cymric	Inland	Kern
5/29/2013	Midway-Sunset	Inland	Kern
6/9/2013	Cymric	Inland	Kern
6/11/2013	NW Lost Hills	Inland	Kern
6/14/2013	Cymric	Inland	Kern
6/24/2013	Midway-Sunset	Inland	Kern
7/6/2013	Orcutt	Coastal	Santa Barbara
7/21/2013	McKittrick	Inland	Kern
8/13/2013	Orcutt	Coastal	Santa Barbara
8/15/2013	Midway-Sunset	Inland	Kern
8/26/2013	McKittrick	Inland	Kern
9/16/2013	McKittrick	Inland	Kern
9/18/2013	Midway-Sunset	Inland	Kern
9/19/2013	McKittrick	Inland	Kern
9/25/2013	Midway-Sunset	Inland	Kern
10/21/2013	Midway-Sunset	Inland	Kern
10/28/2013	Orcutt	Coastal	Santa Barbara
10/30/2013	Midway-Sunset	Inland	Kern

11/4/2013	Orcutt	Coastal	Santa Barbara
11/11/2013	Orcutt	Coastal	Santa Barbara
12/17/2013	Midway-Sunset	Inland	Kern
1/11/2014	Midway-Sunset	Inland	Kern
1/11/2014	Midway-Sunset	Inland	Kern
1/12/2014	Midway-Sunset	Inland	Kern
1/17/2014	Midway-Sunset	Inland	Kern
3/1/2014	Midway-Sunset	Inland	Kern
3/6/2014	Orcutt	Coastal	Santa Barbara
3/10/2014	Midway-Sunset	Inland	Kern
3/25/2014	Midway-Sunset	Inland	Kern
4/9/2014	Midway-Sunset	Inland	Kern
4/26/2014	Midway-Sunset	Inland	Kern
5/18/2014	Midway-Sunset	Inland	Kern
6/2/2014	Midway-Sunset	Inland	Kern
6/17/2014	Midway-Sunset	Inland	Kern
8/6/2014	NW Lost Hills	Inland	Kern
8/8/2014	Midway-Sunset	Inland	Kern
9/5/2014	Orcutt	Coastal	Santa Barbara
9/11/2014	Midway-Sunset	Inland	Kern
9/24/2014	Midway-Sunset	Inland	Kern
9/29/2014	Midway-Sunset	Inland	Kern
10/3/2014	NW Lost Hills	Inland	Kern
10/6/2014	Midway-Sunset	Inland	Kern
10/8/2014	McKittrick	Inland	Kern
2/23/2015	Orcutt	Coastal	Santa Barbara
3/17/2015	McKittrick	Inland	Kern
4/18/2015	McKittrick	Inland	Kern
5/9/2015	Cymric	Inland	Kern
5/22/2015	Midway-Sunset	Inland	Kern
6/1/2015	Orcutt	Coastal	Santa Barbara
6/6/2015	McKittrick	Inland	Kern
6/18/2015	Orcutt	Coastal	Santa Barbara
6/18/2015	McKittrick	Inland	Kern
8/25/2015	Midway-Sunset	Inland	Kern
11/8/2015	Midway-Sunset	Inland	Kern
1/10/2016	Orcutt	Coastal	Santa Barbara
2/12/2016	Midway-Sunset	Inland	Kern
3/16/2016	Orcutt	Coastal	Santa Barbara
3/20/2016	Midway-Sunset	Inland	Kern
4/14/2016	Midway-Sunset	Inland	Kern
4/20/2016	Midway-Sunset	Inland	Kern
5/27/2016	McKittrick	Inland	Kern
6/27/2016	Midway-Sunset	Inland	Kern
8/8/2016	Cymric	Inland	Kern

9/1/2016	McKittrick	Inland	Kern
10/10/2016	McKittrick	Inland	Kern
10/24/2016	Midway-Sunset	Inland	Kern
11/27/2016	Orcutt	Coastal	Santa Barbara
1/25/2017	McKittrick	Inland	Kern
1/26/2017	Midway-Sunset	Inland	Kern
1/26/2017	McKittrick	Inland	Kern
2/6/2017	McKittrick	Inland	Kern
3/10/2017	Midway-Sunset	Inland	Kern
4/19/2017	Midway-Sunset	Inland	Kern
5/3/2017	Midway-Sunset	Inland	Kern
5/7/2017	Cymric	Inland	Kern
5/25/2017	Midway-Sunset	Inland	Kern
8/26/2017	Midway-Sunset	Inland	Kern
9/11/2017	McKittrick	Inland	Kern
10/14/2017	Cymric	Inland	Kern
12/4/2017	Midway-Sunset	Inland	Kern
12/6/2017	McKittrick	Inland	Kern
12/18/2017	McKittrick	Inland	Kern

Year	Kern	Santa Barbara
2012	18	11
2013	32	7
2014	20	2
2015	8	3
2016	10	3
2017	15	0
Total:	103	26