



TETRA TECH

March 3, 2021

Mr. Bradford Billings
State of New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: 2020 Annual Groundwater Monitoring and Remedial Activities Report
ConocoPhillips, Maljamar E&P
Lea County, New Mexico (AP-115-1)**

Mr. Billings:

This report details the continuing annual groundwater monitoring and remedial activities at the ConocoPhillips Company (COP) Maljamar E&P, Lea County, New Mexico (Site). The Site is located in Lea County, New Mexico (Section 21, Township 17S, Range 32E); the site location is shown in Figure 1. The site was assigned the identifier order number AP-115-1 by the New Mexico Oil Conservation District (NMOCD).

1.0 BACKGROUND AND PREVIOUS INVESTIGATIONS

On July 6, 2006, a release of approximately 23 barrels of produced water was discovered at the Site. The release flowed into a drainage way west of the MCA Battery 2 and affected an area approximately 750 feet long and 30 feet wide. Previous investigative and remedial activities were conducted at the Site during the Maljamar Gas Plant investigation. Groundwater samples and water level data were collected, surface and borehole geophysical surveys were performed, and an aquifer pump test was performed.

On October 17, 2014, a letter was submitted to the NMOCD listing wells that would be managed by COP following the split of ConocoPhillips upstream and downstream assets. Groundwater monitoring wells managed as part of this Site included MW-11, MW-12, MW-13, MW-14, and MW-19 and extraction well EW-1. Based on the distance from the Site, MW-18 and MW-20 were considered to be unrelated and would no longer be monitored. A map of the extraction and monitor wells is shown in Figure 2.

In June 2007, the groundwater extraction well EW-1 was installed adjacent to monitor well MW-12, and an additional extraction well (EW-2) was installed in September 2017, but has been off-line intermittently since 2018 due to power and maintenance issues. Efforts to repair and/or replace the pump are planned for 2021. The extracted groundwater is pumped into a flowline connected to an off-site 210 barrel tank and transported to the MCA Unit Battery #2.

Phase separated hydrocarbons (PSH) have not been historically found at the site. Historical groundwater analytical results have documented concentrations of chloride, nitrate, sulfate, and

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total dissolved solids (TDS) above the applicable New Mexico Water Quality Control Commission (NMWQCC) standards in samples collected from EW-1, EW-2, MW-11, MW-12, MW-13, and MW-14. In 2009 through 2011, concentrations of benzene exceeded the applicable NMWQCC standard in MW-11.

2.0 HYDROLOGY/GROUNDWATER

The water bearing zone consists of the Pliocene-age Ogallala aquifer under unconfined conditions at the site. The Ogallala aquifer is located at the base of the Ogallala Formation. In general, the Ogallala Formation consists of quartz sand and gravel that is poorly to well-cemented with calcium carbonate and contains minor amounts of clay. The wells installed at the site were drilled to depths of approximately 120 feet bgs with static groundwater water levels approximately 90 feet bgs.

3.0 2020 GROUNDWATER MONITORING

3.1 Groundwater Sampling and Analysis

Prior to purging the wells, each well was gauged to measure the depth to groundwater and phase separated hydrocarbons (PSH), if any. The water levels and the PSH measurements are summarized in Table 1. The annual groundwater monitoring event occurred on August 18, 2020. No PSH was identified in the wells during the August 2020 event. All wells were gauged and sampled except EW-2 because of the pump located in this well. Each sampled well was sampled utilizing low flow sampling techniques.

Groundwater samples were collected and analyzed for total dissolved solids (TDS) by SM Method 2540C and bromide, chloride, and sulfate by EPA Method 300.0. Groundwater samples were transported to Pace Analytical Services, LLC, in Allen, TX under chain-of-custody control for the 2020 sampling event. Table 2 presents a summary of the groundwater analyses, the analytical report and chain-of-custody are presented in Appendix A, and chloride concentration trend graphs are presented in Appendix B.

3.2 Groundwater Gradient

A water table map was generated for the August 2020 sampling event and is included as Figure 3. The hydraulic gradient for the aquifer was generally to the northeast, which is consistent with historical data.

4.0 GROUNDWATER ANALYTICAL RESULTS

4.1 August 2020 Sampling Event

During the August 2020 monitoring event, wells EW-1, MW-11, MW-12, MW-13, MW-14, and MW-19 were sampled. The pump at EW-2 was not functional during the August 2020 sampling event.

The concentration of chlorides in EW-1 (24,600 mg/L), MW-11 (517 mg/L), MW-12 (31,700 mg/L) exceeded the applicable NMWQCC standard of 250 mg/L. Chloride concentrations appear to be generally stable or decreasing in the majority of the wells, except EW-1 which had a slight increase.



Additionally, the concentration of sulfate in EW-1 (661 mg/L) and MW-12 (755 mg/L) exceeded the applicable NMWQCC standard of 600 mg/L, and the concentration of TDS in EW-1 (58,200 mg/L), MW-11 (1,480 mg/L), MW-12 (71,700 mg/L), MW-13 (1,100 mg/L), and MW-14 (1,290 mg/L) exceeded the applicable NMWQCC standard of 1,000 mg/L. No exceedances were found in MW-19.

4.1 EW-2 2020 Sampling Event

After the pump at EW-2 was brought back online in October 2020, a groundwater sample was collected from this well on October 9, 2020. Analytical results indicated the concentration of chloride (20,100 mg/L) exceeded the applicable NMWQCC standard of 250 mg/L, and the concentration of TDS (39,600 mg/L) exceeded the applicable NMWQCC standard of 1,000 mg/L in this well.

5.0 WORK PLAN

5.1 Groundwater Monitoring

Groundwater monitoring and sampling of the on-site wells will be continued on an annual basis, with annual reporting to the New Mexico Oil Conservation Division. The pump installed in EW-2 has been off-line intermittently since 2018 due to power and maintenance issues. Efforts to repair and/or replace the pump are planned for 2021.

If you have any questions please call Julie Evans at (432) 258-3451.

Sincerely,
Tetra Tech, Inc.

A handwritten signature in blue ink that reads 'Julie Evans'.

Julie Evans
Project Manager

Reviewed By:

A handwritten signature in blue ink that appears to read 'Greg W. Pope'.

Greg W. Pope, P.G.
Program Manager

cc: Mr. Marvin Soriwei – ConocoPhillips



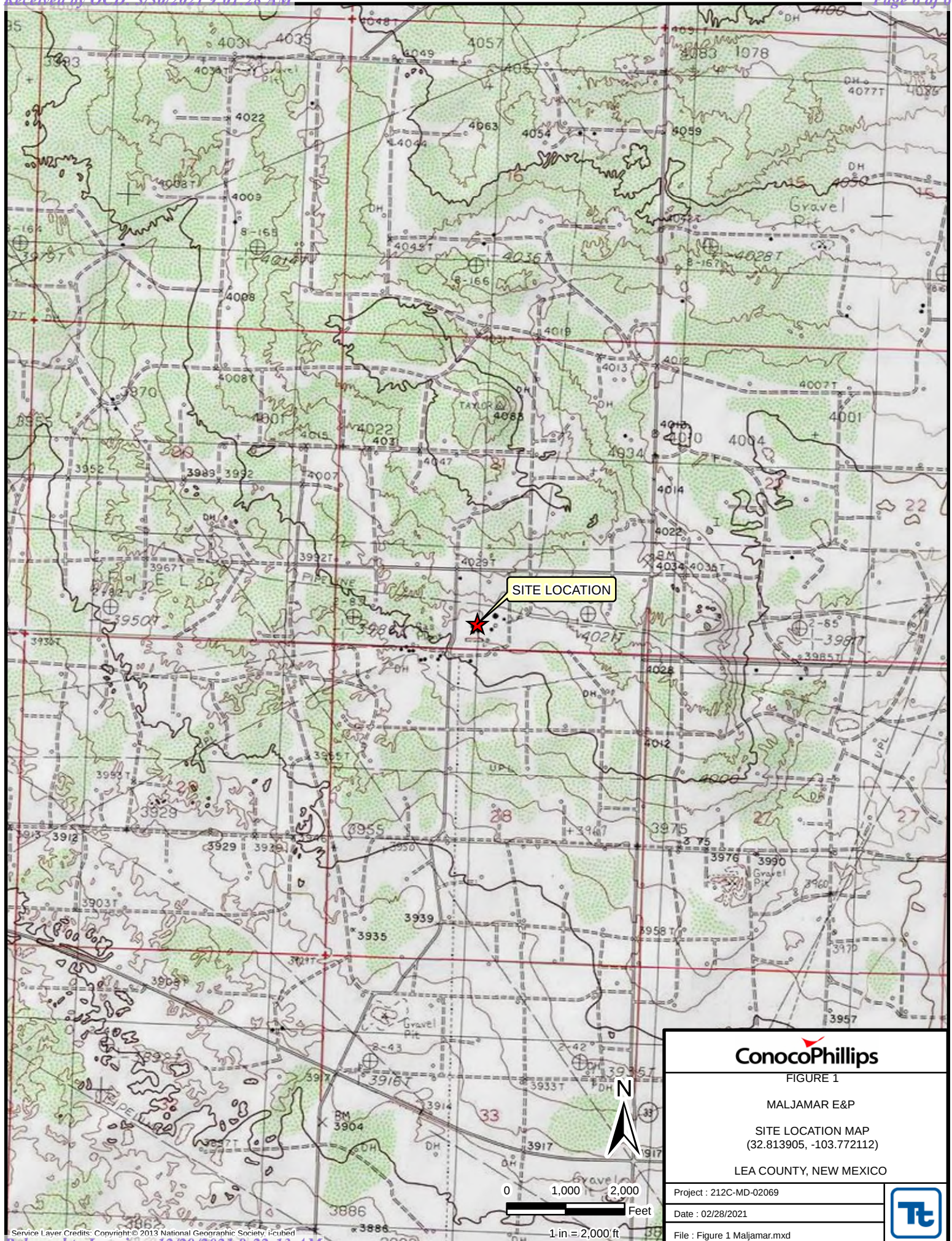
2020 Annual Groundwater Monitoring and Remedial Activities Report
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Lea County, New Mexico (AP-115-1)
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Attachments:

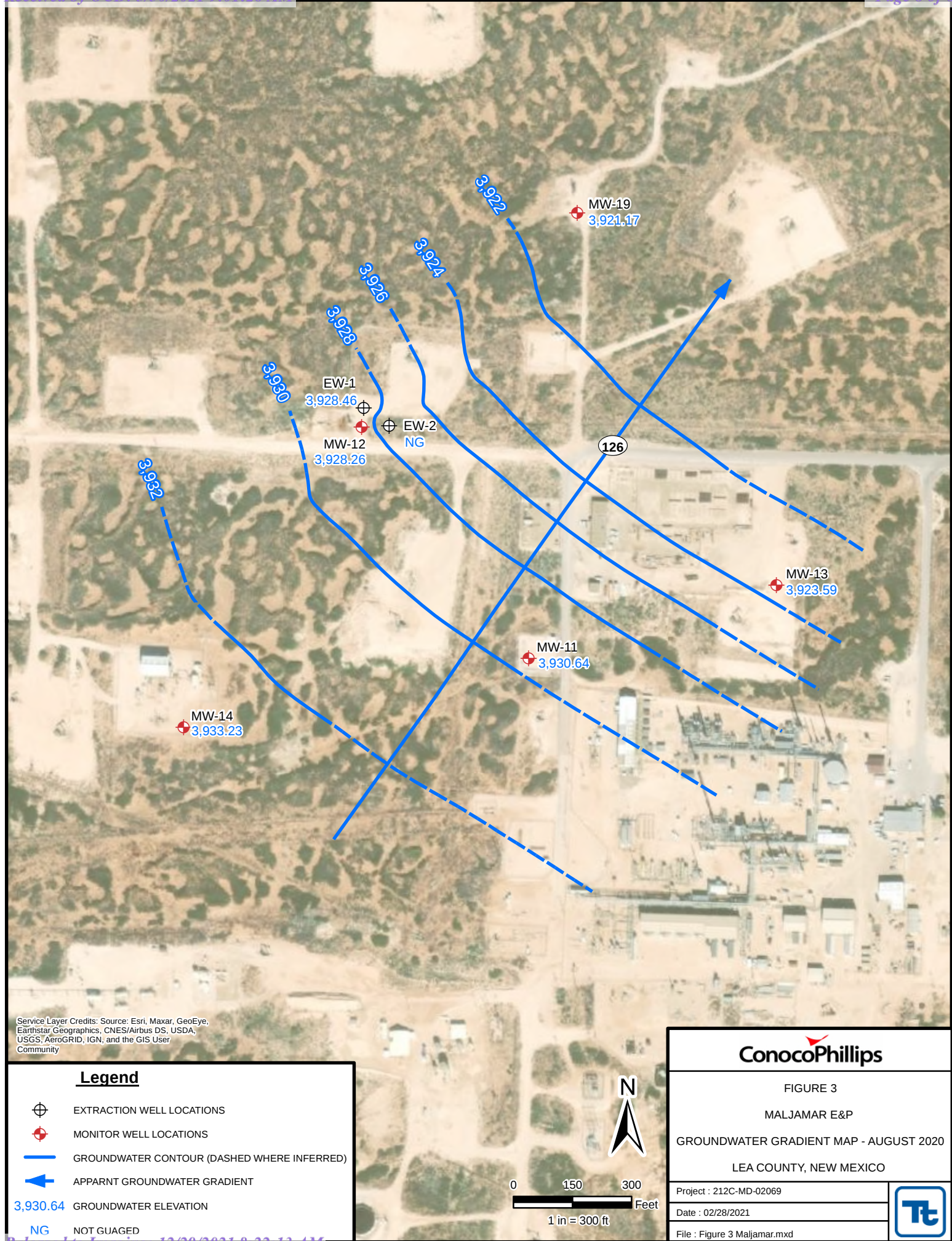
- Figure 1 – Site Location Map
- Figure 2 – Site Map
- Figure 3 – Groundwater Gradient Map – August 2020
- Table 1 – Summary of Groundwater Elevations and PSH Thickness
- Table 2 – Summary of Groundwater Analytical Data
- Appendix A – Laboratory Analytical Data
- Appendix B – Chloride Concentration Trend Graphs



FIGURES









TABLES

Table 1
Summary of Groundwater Elevations and PSH Thickness
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Well Borehole/ID	Date Measured	Well Total Depth (feet)	Product (feet below TOC)	Water level (feet below TOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
EW-1	6/27/2007	-	-	92.58	4,022.04	3,929.46
	7/19/2007	-	-	93.27	4,022.04	3,928.77
	10/24/2011	-	-	96.44	4,022.04	3,925.60
	8/3/2017	125	-	NG	4,022.04	NG
	8/16/2018	-	-	94.87	4,022.04	3,927.17
	8/16/2019	-	-	93.88	4,022.04	3,928.16
	8/18/2020	-	-	93.58	4,022.04	3,928.46
EW-2	10/4/2017	140	-	95.04	4,022.76	3,927.72
	8/16/2018	-	-	NG	4,022.76	NG
	8/15/2019	-	-	NG	4,022.76	NG
	8/18/2020	-	-	NG	4,022.76	NG
MW-11	12/13/2001	-	-	81.38	4,015.54	3,934.16
	3/22/2002	-	-	83.60	4,015.54	3,931.94
	9/16/2002	-	-	83.82	4,015.54	3,931.72
	9/20/2002	-	-	83.70	4,015.54	3,931.84
	9/4/2003	-	-	84.50	4,015.54	3,931.04
	4/5/2004	-	-	84.54	4,015.54	3,931.00
	5/17/2004	-	-	84.64	4,015.54	3,930.90
	5/24/2004	-	-	84.55	4,015.54	3,930.99
	6/1/2004	-	-	84.61	4,015.54	3,930.93
	6/7/2004	-	-	84.58	4,015.54	3,930.96
	6/15/2004	-	-	84.69	4,015.54	3,930.85
	6/21/2004	-	-	84.72	4,015.54	3,930.82
	6/28/2004	-	-	84.99	4,015.54	3,930.55
	7/6/2004	-	-	84.83	4,015.54	3,930.71
	7/12/2004	-	-	84.96	4,015.54	3,930.58
	7/19/2004	-	-	84.90	4,015.54	3,930.64
	7/26/2004	-	-	85.11	4,015.54	3,930.43
	8/2/2004	-	-	84.96	4,015.54	3,930.58
	8/10/2004	-	-	85.09	4,015.54	3,930.45
	8/16/2004	-	-	85.06	4,015.54	3,930.48
	8/23/2004	-	-	84.83	4,015.54	3,930.71
	8/30/2004	-	-	85.06	4,015.54	3,930.48
	9/8/2004	-	-	85.14	4,015.54	3,930.40
	10/8/2004	-	-	85.12	4,015.54	3,930.42
	12/30/2004	-	-	85.12	4,015.54	3,930.42
	1/17/2005	-	-	85.52	4,015.54	3,930.02
	2/9/2005	-	-	85.33	4,015.54	3,930.21
	3/9/2005	-	-	85.45	4,015.54	3,930.09

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MW-11 continued	4/5/2005	-	-	85.15	4,015.54	3,930.39
	5/10/2005	-	-	85.21	4,015.54	3,930.33
	6/8/2005	-	-	85.31	4,015.54	3,930.23
	7/5/2005	-	-	85.59	4,015.54	3,929.95
	8/8/2005	-	-	85.50	4,015.54	3,930.04
	9/14/2005	-	-	85.42	4,015.54	3,930.12
	10/12/2005	-	-	85.54	4,015.54	3,930.00
	11/9/2005	-	-	85.62	4,015.54	3,929.92
	12/14/2005	-	-	85.41	4,015.54	3,930.13
	1/12/2006	-	-	85.26	4,015.54	3,930.28
	2/2/2006	-	-	85.23	4,015.54	3,930.31
	3/7/2006	-	-	85.44	4,015.54	3,930.10
	4/5/2006	-	-	85.38	4,015.54	3,930.16
	5/8/2006	-	-	85.33	4,015.54	3,930.21
	6/5/2006	-	-	85.47	4,015.54	3,930.07
	7/11/2006	-	-	85.48	4,015.54	3,930.06
	8/16/2006	-	-	85.52	4,015.54	3,930.02
	9/7/2006	-	-	85.43	4,015.54	3,930.11
	10/11/2006	-	-	85.41	4,015.54	3,930.13
	11/8/2006	-	-	85.31	4,015.54	3,930.23
	12/4/2006	-	-	85.88	4,015.54	3,929.66
	1/4/2007	-	-	85.20	4,015.54	3,930.34
	2/27/2007	-	-	85.16	4,015.54	3,930.38
	3/20/2007	-	-	85.33	4,015.54	3,930.21
	4/17/2007	-	-	85.17	4,015.54	3,930.37
	5/7/2007	-	-	85.40	4,015.54	3,930.14
	6/27/2007	-	-	85.27	4,015.54	3,930.27
	7/19/2007	-	-	85.13	4,015.54	3,930.41
	8/21/2007	-	-	85.08	4,015.54	3,930.46
	9/17/2007	-	-	85.05	4,015.54	3,930.49
	10/16/2007	-	-	84.97	4,015.54	3,930.57
	11/20/2007	-	-	85.02	4,015.54	3,930.52
	12/21/2007	-	-	84.81	4,015.54	3,930.73
	1/22/2008	-	-	85.27	4,015.54	3,930.27
	2/27/2008	-	-	85.20	4,015.54	3,930.34
	3/25/2008	-	-	84.99	4,015.54	3,930.55
	4/29/2008	-	-	84.98	4,015.54	3,930.56
	5/5/2008	-	-	84.93	4,015.54	3,930.61
	6/10/2008	-	-	84.94	4,015.54	3,930.60
	7/15/2008	-	-	84.90	4,015.54	3,930.64
	8/19/2008	-	-	84.88	4,015.54	3,930.66

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MW-11 continued	9/16/2008	-	-	85.13	4,015.54	3,930.41
	10/15/2008	-	-	85.03	4,015.54	3,930.51
	11/12/2008	-	-	84.72	4,015.54	3,930.82
	12/11/2008	-	-	84.92	4,015.54	3,930.62
	1/13/2009	-	-	85.15	4,015.54	3,930.39
	2/11/2009	-	-	84.85	4,015.54	3,930.69
	3/10/2009	-	-	84.63	4,015.54	3,930.91
	4/13/2009	-	-	84.79	4,015.54	3,930.75
	5/1/2009	-	-	84.64	4,015.54	3,930.90
	6/8/2009	-	-	84.51	4,015.54	3,931.03
	7/13/2009	-	-	84.61	4,015.54	3,930.93
	8/10/2009	-	-	84.60	4,015.54	3,930.94
	9/15/2009	-	-	84.44	4,015.54	3,931.10
	10/6/2009	-	-	84.34	4,015.54	3,931.20
	11/9/2009	-	-	84.58	4,015.54	3,930.96
	12/23/2009	-	-	84.06	4,015.54	3,931.48
	1/20/2010	-	-	83.99	4,015.54	3,931.55
	2/9/2010	-	-	84.64	4,015.54	3,930.90
	3/9/2010	-	-	84.23	4,015.54	3,931.31
	4/12/2010	-	-	84.54	4,015.54	3,931.00
	5/24/2010	-	-	84.34	4,015.54	3,931.20
	6/14/2010	-	-	84.48	4,015.54	3,931.06
	7/20/2010	-	-	84.54	4,015.54	3,931.00
	8/11/2010	-	-	84.57	4,015.54	3,930.97
	9/21/2010	-	-	84.56	4,015.54	3,930.98
	10/20/2010	-	-	84.62	4,015.54	3,930.92
	11/8/2010	-	-	84.48	4,015.54	3,931.06
	12/7/2010	-	-	84.58	4,015.54	3,930.96
	1/18/2011	-	-	84.61	4,015.54	3,930.93
	2/8/2011	-	-	84.38	4,015.54	3,931.16
	3/8/2011	-	-	84.40	4,015.54	3,931.14
	4/13/2011	-	-	84.61	4,015.54	3,930.93
	5/23/2011	-	-	84.54	4,015.54	3,931.00
	6/28/2011	-	-	84.85	4,015.54	3,930.69
	7/19/2011	-	-	84.73	4,015.54	3,930.81
	8/31/2011	-	-	84.61	4,015.54	3,930.93
	9/27/2011	-	-	84.66	4,015.54	3,930.88
	10/24/2011	-	-	84.79	4,015.54	3,930.75
	11/29/2011	-	-	84.99	4,015.54	3,930.55
	12/23/2011	-	-	84.83	4,015.54	3,930.71
	1/31/2012	-	-	84.77	4,015.54	3,930.77

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MW-11 continued	2/29/2012	-	-	84.81	4,015.54	3,930.73
	3/27/2012	-	-	84.85	4,015.54	3,930.69
	4/18/2012	-	-	84.91	4,015.54	3,930.63
	5/21/2012	-	-	85.15	4,015.54	3,930.39
	7/17/2012	-	-	84.97	4,015.54	3,930.57
	8/21/2012	-	-	84.97	4,015.54	3,930.57
	9/17/2012	-	-	84.83	4,015.54	3,930.71
	12/13/2012	-	-	85.15	4,015.54	3,930.39
	1/9/2013	-	-	85.24	4,015.54	3,930.30
	2/6/2013	-	-	85.03	4,015.54	3,930.51
	3/6/2013	-	-	85.33	4,015.54	3,930.21
	5/1/2013	-	-	85.11	4,015.54	3,930.43
	6/5/2013	-	-	85.29	4,015.54	3,930.25
	7/3/2013	-	-	85.51	4,015.54	3,930.03
	7/30/2013	-	-	85.55	4,015.54	3,929.99
	8/15/2013	-	-	85.58	4,015.54	3,929.96
	10/2/2013	-	-	85.50	4,015.54	3,930.04
	12/23/2013	-	-	85.86	4,015.54	3,929.68
	1/9/2014	-	-	85.46	4,015.54	3,930.08
	2/12/2014	-	-	85.73	4,015.54	3,929.81
	3/19/2014	-	-	85.85	4,015.54	3,929.69
	4/3/2014	-	-	85.46	4,015.54	3,930.08
	5/7/2014	-	-	85.46	4,015.54	3,930.08
	6/5/2014	-	-	85.54	4,015.54	3,930.00
	7/1/2014	-	-	85.76	4,015.54	3,929.78
	7/22/2014	-	-	85.90	4,015.54	3,929.64
	8/5/2014	-	-	85.88	4,015.54	3,929.66
	9/4/2014	-	-	85.73	4,015.54	3,929.81
	10/2/2014	-	-	85.77	4,015.54	3,929.77
	11/6/2014	-	-	86.22	4,015.54	3,929.32
	12/4/2014	-	-	85.79	4,015.54	3,929.75
	8/24/2015	-	-	86.21	4,015.54	3,929.33
	1/20/2016	-	-	85.91	4,015.54	3,929.63
	2/16/2016	-	-	85.94	4,015.54	3,929.60
	3/15/2016	-	-	85.86	4,015.54	3,929.68
	4/20/2016	-	-	85.90	4,015.54	3,929.64
	5/17/2016	-	-	86.00	4,015.54	3,929.54
	8/16/2016	-	-	85.85	4,015.54	3,929.69
	9/20/2016	-	-	85.75	4,015.54	3,929.79
	10/18/2016	-	-	85.56	4,015.54	3,929.98
	12/20/2016	-	-	85.82	4,015.54	3,929.72

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MW-11 continued	8/3/2017	120	-	86.32	4,015.54	3,929.22
	8/16/2018	-	-	84.80	4,015.54	3,930.74
	8/15/2019	-	-	84.85	4,015.54	3,930.69
	8/18/2020	119.7	-	84.90	4,015.54	3,930.64
MW-12	12/13/2001	-	-	91.43	4,022.71	3,931.28
	3/22/2002	-	-	94.38	4,022.71	3,928.33
	9/16/2002	-	-	94.51	4,022.71	3,928.20
	9/20/2002	-	-	94.31	4,022.71	3,928.40
	4/5/2004	-	-	94.59	4,022.71	3,928.12
	5/17/2004	-	-	94.60	4,022.71	3,928.11
	5/24/2004	-	-	94.51	4,022.71	3,928.20
	6/1/2004	-	-	94.53	4,022.71	3,928.18
	6/7/2004	-	-	94.45	4,022.71	3,928.26
	6/15/2004	-	-	94.56	4,022.71	3,928.15
	6/21/2004	-	-	94.57	4,022.71	3,928.14
	6/28/2004	-	-	94.84	4,022.71	3,927.87
	7/6/2004	-	-	94.70	4,022.71	3,928.01
	7/12/2004	-	-	94.80	4,022.71	3,927.91
	7/19/2004	-	-	94.74	4,022.71	3,927.97
	7/26/2004	-	-	94.92	4,022.71	3,927.79
	8/2/2004	-	-	94.77	4,022.71	3,927.94
	8/10/2004	-	-	94.88	4,022.71	3,927.83
	8/16/2004	-	-	94.86	4,022.71	3,927.85
	8/23/2004	-	-	94.60	4,022.71	3,928.11
	8/30/2004	-	-	94.82	4,022.71	3,927.89
	9/8/2004	-	-	94.89	4,022.71	3,927.82
	10/8/2004	-	-	94.83	4,022.71	3,927.88
	12/30/2004	-	-	94.72	4,022.71	3,927.99
	1/17/2005	-	-	95.06	4,022.71	3,927.65
	2/9/2005	-	-	94.94	4,022.71	3,927.77
	3/9/2005	-	-	94.92	4,022.71	3,927.79
	4/5/2005	-	-	94.58	4,022.71	3,928.13
	5/10/2005	-	-	94.61	4,022.71	3,928.10
	6/8/2005	-	-	94.58	4,022.71	3,928.13
	7/5/2005	-	-	94.84	4,022.71	3,927.87
	8/8/2005	-	-	94.78	4,022.71	3,927.93
	9/14/2005	-	-	94.71	4,022.71	3,928.00
	10/12/2005	-	-	94.82	4,022.71	3,927.89
	11/9/2005	-	-	94.92	4,022.71	3,927.79
	12/14/2005	-	-	94.70	4,022.71	3,928.01

Table 1
Summary of Groundwater Elevations and PSH Thickness
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Well Borehole/ID	Date Measured	Well Total Depth (feet)	Product (feet below TOC)	Water level (feet below TOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
MW-12 continued	1/12/2006	-	-	94.50	4,022.71	3,928.21
	2/2/2006	-	-	94.58	4,022.71	3,928.13
	3/7/2006	-	-	94.76	4,022.71	3,927.95
	4/5/2006	-	-	94.67	4,022.71	3,928.04
	5/8/2006	-	-	94.61	4,022.71	3,928.10
	6/5/2006	-	-	94.77	4,022.71	3,927.94
	7/11/2006	-	-	94.84	4,022.71	3,927.87
	8/16/2006	-	-	94.93	4,022.71	3,927.78
	9/7/2006	-	-	94.86	4,022.71	3,927.85
	10/11/2006	-	-	94.86	4,022.71	3,927.85
	11/8/2006	-	-	94.72	4,022.71	3,927.99
	12/4/2006	-	-	95.35	4,022.71	3,927.36
	1/4/2007	-	-	94.68	4,022.71	3,928.03
	2/27/2007	-	-	94.73	4,022.71	3,927.98
	3/20/2007	-	-	94.93	4,022.71	3,927.78
	4/17/2007	-	-	94.73	4,022.71	3,927.98
	5/7/2007	-	-	94.95	4,022.71	3,927.76
	6/27/2007	-	-	94.42	4,022.71	3,928.29
	7/19/2007	-	-	94.71	4,022.71	3,928.00
	8/21/2007	-	-	94.77	4,022.71	3,927.94
	9/17/2007	-	-	94.90	4,022.71	3,927.81
	10/16/2007	-	-	98.83	4,022.71	3,923.88
	11/20/2007	-	-	99.07	4,022.71	3,923.64
	12/21/2007	-	-	98.82	4,022.53	3,923.71
	1/22/2008	-	-	97.14	4,022.53	3,925.39
	2/27/2008	-	-	97.32	4,022.53	3,925.21
	3/25/2008	-	-	98.91	4,022.53	3,923.62
	4/29/2008	-	-	98.87	4,022.53	3,923.66
	5/5/2008	-	-	98.82	4,022.53	3,923.71
	6/10/2008	-	-	98.63	4,022.53	3,923.90
	7/15/2008	-	-	98.65	4,022.53	3,923.88
	8/19/2008	-	-	98.43	4,022.53	3,924.10
	9/16/2008	-	-	98.92	4,022.53	3,923.61
	10/15/2008	-	-	98.84	4,022.53	3,923.69
	11/12/2008	-	-	98.52	4,022.53	3,924.01
	12/11/2008	-	-	98.48	4,022.53	3,924.05
	1/13/2009	-	-	98.86	4,022.53	3,923.67
	2/11/2009	-	-	98.52	4,022.53	3,924.01
	3/10/2009	-	-	98.29	4,022.53	3,924.24
	4/13/2009	-	-	98.44	4,022.53	3,924.09
	5/1/2009	-	-	98.27	4,022.53	3,924.26

Table 1
Summary of Groundwater Elevations and PSH Thickness
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Well Borehole/ID	Date Measured	Well Total Depth (feet)	Product (feet below TOC)	Water level (feet below TOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
MW-12 continued	6/8/2009	-	-	98.25	4,022.53	3,924.28
	7/13/2009	-	-	98.28	4,022.53	3,924.25
	8/10/2009	-	-	98.27	4,022.53	3,924.26
	9/15/2009	-	-	98.04	4,022.53	3,924.49
	10/6/2009	-	-	94.93	4,022.53	3,927.60
	11/9/2009	-	-	97.97	4,022.53	3,924.56
	12/23/2009	-	-	97.47	4,022.53	3,925.06
	1/20/2010	-	-	97.36	4,022.53	3,925.17
	2/9/2010	-	-	97.98	4,022.53	3,924.55
	3/9/2010	-	-	97.58	4,022.53	3,924.95
	4/12/2010	-	-	97.85	4,022.53	3,924.68
	5/24/2010	-	-	97.57	4,022.53	3,924.96
	6/14/2010	-	-	98.32	4,022.53	3,924.21
	7/20/2010	-	-	98.23	4,022.53	3,924.30
	8/11/2010	-	-	98.22	4,022.53	3,924.31
	9/21/2010	-	-	98.01	4,022.53	3,924.52
	10/20/2010	-	-	98.13	4,022.53	3,924.40
	11/8/2010	-	-	97.97	4,022.53	3,924.56
	12/7/2010	-	-	97.93	4,022.53	3,924.60
	1/18/2011	-	-	97.81	4,022.53	3,924.72
	2/8/2011	-	-	96.88	4,022.53	3,925.65
	3/8/2011	-	-	94.42	4,022.53	3,928.11
	4/13/2011	-	-	94.36	4,022.53	3,928.17
	5/23/2011	-	-	94.20	4,022.53	3,928.33
	6/28/2011	-	-	97.80	4,022.53	3,924.73
	7/19/2011	-	-	97.74	4,022.53	3,924.79
	8/31/2011	-	-	97.65	4,022.53	3,924.88
	9/27/2011	-	-	97.67	4,022.53	3,924.86
	10/24/2011	-	-	96.44	4,022.53	3,926.09
	11/29/2011	-	-	98.06	4,022.53	3,924.47
	12/23/2011	-	-	97.87	4,022.53	3,924.66
	1/31/2012	-	-	97.73	4,022.53	3,924.80
	2/29/2012	-	-	97.83	4,022.53	3,924.70
	3/27/2012	-	-	97.78	4,022.53	3,924.75
	4/18/2012	-	-	97.80	4,022.53	3,924.73
	5/21/2012	-	-	98.02	4,022.53	3,924.51
	7/17/2012	-	-	94.66	4,022.53	3,927.87
	8/21/2012	-	-	97.65	4,022.53	3,924.88
	9/17/2012	-	-	97.62	4,022.53	3,924.91
	12/13/2012	-	-	97.87	4,022.53	3,924.66
	1/9/2013	-	-	98.05	4,022.53	3,924.48

Table 1
Summary of Groundwater Elevations and PSH Thickness
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Well Borehole/ID	Date Measured	Well Total Depth (feet)	Product (feet below TOC)	Water level (feet below TOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
MW-12 continued	2/6/2013	-	-	94.89	4,022.53	3,927.64
	3/6/2013	-	-	94.80	4,022.53	3,927.73
	5/1/2013	-	-	94.36	4,022.53	3,928.17
	6/5/2013	-	-	97.82	4,022.53	3,924.71
	7/3/2013	-	-	98.07	4,022.53	3,924.46
	7/30/2013	-	-	98.16	4,022.53	3,924.37
	8/15/2013	-	-	98.36	4,022.53	3,924.17
	10/2/2013	-	-	98.05	4,022.53	3,924.48
	12/23/2013	-	-	98.45	4,022.53	3,924.08
	1/9/2014	-	-	97.90	4,022.53	3,924.63
	2/12/2014	-	-	98.05	4,022.53	3,924.48
	3/19/2014	-	-	98.48	4,022.53	3,924.05
	4/3/2014	-	-	98.07	4,022.53	3,924.46
	5/7/2014	-	-	98.09	4,022.53	3,924.44
	6/5/2014	-	-	98.13	4,022.53	3,924.40
	7/1/2014	-	-	98.33	4,022.53	3,924.20
	7/22/2014	-	-	98.45	4,022.53	3,924.08
	8/5/2014	-	-	98.58	4,022.53	3,923.95
	9/4/2014	-	-	98.42	4,022.53	3,924.11
	10/2/2014	-	-	98.43	4,022.53	3,924.10
	11/6/2014	-	-	98.79	4,022.53	3,923.74
	12/4/2014	-	-	98.36	4,022.53	3,924.17
	4/21/2015	-	-	94.69	4,022.53	3,927.84
	5/15/2015	-	-	94.62	4,022.53	3,927.91
	6/11/2015	-	-	94.62	4,022.53	3,927.91
	8/24/2015	-	-	95.00	4,022.53	3,927.53
	11/23/2015	-	-	94.87	4,022.53	3,927.66
	1/20/2016	-	-	94.79	4,022.53	3,927.74
	2/16/2016	-	-	94.80	4,022.53	3,927.73
	3/15/2016	-	-	94.74	4,022.53	3,927.79
	4/20/2016	-	-	94.79	4,022.53	3,927.74
	5/17/2016	-	-	95.25	4,022.53	3,927.28
	8/16/2016	-	-	94.90	4,022.53	3,927.63
	9/20/2016	-	-	94.89	4,022.53	3,927.64
	10/18/2016	-	-	94.74	4,022.53	3,927.79
	12/20/2016	-	-	95.00	4,022.53	3,927.53
	8/3/2017	120	-	94.72	4,022.53	3,927.81
	8/16/2018	-	-	94.57	4,022.53	3,927.96
	8/16/2019	123	-	94.43	4,022.53	3,928.10
	8/18/2020	122.85	-	94.27	4,022.53	3,928.26

Table 1
Summary of Groundwater Elevations and PSH Thickness
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Well Borehole/ID	Date Measured	Well Total Depth (feet)	Product (feet below TOC)	Water level (feet below TOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
MW-13	12/13/2001	-	-	103.76	4,031.96	3,928.20
	3/22/2002	-	-	107.18	4,031.96	3,924.78
	9/16/2002	-	-	107.58	4,031.96	3,924.38
	9/20/2002	-	-	107.48	4,031.96	3,924.48
	4/5/2004	-	-	108.04	4,031.96	3,923.92
	5/17/2004	-	-	108.06	4,031.96	3,923.90
	5/24/2004	-	-	107.97	4,031.96	3,923.99
	6/1/2004	-	-	107.97	4,031.96	3,923.99
	6/7/2004	-	-	107.89	4,031.96	3,924.07
	6/15/2004	-	-	107.99	4,031.96	3,923.97
	6/21/2004	-	-	107.98	4,031.96	3,923.98
	6/28/2004	-	-	108.29	4,031.96	3,923.67
	7/6/2004	-	-	108.12	4,031.96	3,923.84
	7/12/2004	-	-	108.22	4,031.96	3,923.74
	7/19/2004	-	-	108.16	4,031.96	3,923.80
	7/26/2004	-	-	108.34	4,031.96	3,923.62
	8/2/2004	-	-	108.17	4,031.96	3,923.79
	8/10/2004	-	-	108.29	4,031.96	3,923.67
	8/16/2004	-	-	108.27	4,031.96	3,923.69
	8/23/2004	-	-	108.01	4,031.96	3,923.95
	8/30/2004	-	-	108.24	4,031.96	3,923.72
	9/8/2004	-	-	108.31	4,031.96	3,923.65
	10/8/2004	-	-	108.23	4,031.96	3,923.73
	12/30/2004	-	-	108.12	4,031.96	3,923.84
	1/17/2005	-	-	108.49	4,031.96	3,923.47
	2/9/2005	-	-	108.38	4,031.96	3,923.58
	3/9/2005	-	-	108.44	4,031.96	3,923.52
	4/5/2005	-	-	108.04	4,031.96	3,923.92
	5/10/2005	-	-	108.09	4,031.96	3,923.87
	6/8/2005	-	-	108.18	4,031.96	3,923.78
	7/5/2005	-	-	108.47	4,031.96	3,923.49
	8/8/2005	-	-	108.37	4,031.96	3,923.59
	9/14/2005	-	-	108.28	4,031.96	3,923.68
	10/12/2005	-	-	108.42	4,031.96	3,923.54
	11/9/2005	-	-	108.51	4,031.96	3,923.45
	12/14/2005	-	-	108.31	4,031.96	3,923.65
	1/12/2006	-	-	108.16	4,031.96	3,923.80
	2/2/2006	-	-	108.17	4,031.96	3,923.79
	3/7/2006	-	-	108.33	4,031.96	3,923.63
	4/5/2006	-	-	108.22	4,031.96	3,923.74
	5/8/2006	-	-	108.18	4,031.96	3,923.78

Table 1
Summary of Groundwater Elevations and PSH Thickness
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Well Borehole/ID	Date Measured	Well Total Depth (feet)	Product (feet below TOC)	Water level (feet below TOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
MW-13 continued	6/5/2006	-	-	108.30	4,031.96	3,923.66
	7/11/2006	-	-	108.34	4,031.96	3,923.62
	8/16/2006	-	-	108.43	4,031.96	3,923.53
	9/7/2006	-	-	108.32	4,031.96	3,923.64
	10/11/2006	-	-	108.31	4,031.96	3,923.65
	11/8/2006	-	-	108.18	4,031.96	3,923.78
	12/4/2006	-	-	108.79	4,031.96	3,923.17
	1/4/2007	-	-	108.11	4,031.96	3,923.85
	2/27/2007	-	-	108.16	4,031.96	3,923.80
	3/20/2007	-	-	108.37	4,031.96	3,923.59
	4/17/2007	-	-	108.13	4,031.96	3,923.83
	5/7/2007	-	-	108.37	4,031.96	3,923.59
	6/27/2007	-	-	108.23	4,031.96	3,923.73
	7/19/2007	-	-	108.13	4,031.96	3,923.83
	8/21/2007	-	-	108.10	4,031.96	3,923.86
	9/17/2007	-	-	108.08	4,031.96	3,923.88
	10/16/2007	-	-	108.03	4,031.96	3,923.93
	11/20/2007	-	-	108.11	4,031.96	3,923.85
	12/21/2007	-	-	107.92	4,031.96	3,924.04
	1/22/2008	-	-	108.42	4,031.96	3,923.54
	2/27/2008	-	-	108.40	4,031.96	3,923.56
	3/25/2008	-	-	108.22	4,031.96	3,923.74
	4/29/2008	-	-	108.22	4,031.96	3,923.74
	5/5/2008	-	-	108.22	4,031.96	3,923.74
	6/10/2008	-	-	108.23	4,031.96	3,923.73
	7/15/2008	-	-	108.23	4,031.96	3,923.73
	8/19/2008	-	-	108.24	4,031.96	3,923.72
	9/16/2008	-	-	108.52	4,031.96	3,923.44
	10/15/2008	-	-	108.44	4,031.96	3,923.52
	11/12/2008	-	-	108.15	4,031.96	3,923.81
	12/11/2008	-	-	108.34	4,031.96	3,923.62
	1/13/2009	-	-	108.55	4,031.96	3,923.41
	2/11/2009	-	-	108.27	4,031.96	3,923.69
	3/10/2009	-	-	108.05	4,031.96	3,923.91
	4/13/2009	-	-	108.20	4,031.96	3,923.76
	5/1/2009	-	-	108.02	4,031.96	3,923.94
	6/8/2009	-	-	107.90	4,031.96	3,924.06
	7/13/2009	-	-	107.97	4,031.96	3,923.99
	8/10/2009	-	-	107.98	4,031.96	3,923.98
	9/15/2009	-	-	107.83	4,031.96	3,924.13
	10/6/2009	-	-	107.73	4,031.96	3,924.23

Table 1
Summary of Groundwater Elevations and PSH Thickness
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Well Borehole/ID	Date Measured	Well Total Depth (feet)	Product (feet below TOC)	Water level (feet below TOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
MW-13 continued	11/9/2009	-	-	107.95	4,031.96	3,924.01
	12/23/2009	-	-	107.45	4,031.96	3,924.51
	1/20/2010	-	-	107.40	4,031.96	3,924.56
	2/9/2010	-	-	108.03	4,031.96	3,923.93
	3/9/2010	-	-	107.65	4,031.96	3,924.31
	4/12/2010	-	-	107.94	4,031.96	3,924.02
	5/24/2010	-	-	107.76	4,031.96	3,924.20
	6/14/2010	-	-	107.90	4,031.96	3,924.06
	7/20/2010	-	-	107.98	4,031.96	3,923.98
	8/11/2010	-	-	108.00	4,031.96	3,923.96
	9/21/2010	-	-	107.90	4,031.96	3,924.06
	10/20/2010	-	-	108.08	4,031.96	3,923.88
	11/8/2010	-	-	107.93	4,031.96	3,924.03
	12/7/2010	-	-	107.99	4,031.96	3,923.97
	1/18/2011	-	-	108.03	4,031.96	3,923.93
	2/8/2011	-	-	108.77	4,031.96	3,923.19
	3/8/2011	-	-	107.82	4,031.96	3,924.14
	4/13/2011	-	-	108.03	4,031.96	3,923.93
	5/23/2011	-	-	108.01	4,031.96	3,923.95
	6/28/2011	-	-	108.28	4,031.96	3,923.68
	7/19/2011	-	-	108.19	4,031.96	3,923.77
	8/31/2011	-	-	108.05	4,031.96	3,923.91
	9/27/2011	-	-	108.09	4,031.96	3,923.87
	10/24/2011	-	-	108.19	4,031.96	3,923.77
	11/29/2011	-	-	108.31	4,031.96	3,923.65
	12/23/2011	-	-	108.13	4,031.96	3,923.83
	1/31/2012	-	-	108.14	4,031.96	3,923.82
	2/29/2012	-	-	108.06	4,031.96	3,923.90
	3/27/2012	-	-	108.05	4,031.96	3,923.91
	4/18/2012	-	-	108.12	4,031.96	3,923.84
	5/21/2012	-	-	108.36	4,031.96	3,923.60
	7/17/2012	-	-	108.18	4,031.96	3,923.78
	8/21/2012	-	-	108.21	4,031.96	3,923.75
	9/17/2012	-	-	108.08	4,031.96	3,923.88
	12/13/2012	-	-	108.40	4,031.96	3,923.56
	1/9/2013	-	-	108.49	4,031.96	3,923.47
	2/6/2013	-	-	108.28	4,031.96	3,923.68
	3/6/2013	-	-	108.55	4,031.96	3,923.41
	6/5/2013	-	-	108.44	4,031.96	3,923.52
	7/3/2013	-	-	108.61	4,031.96	3,923.35
	7/30/2013	-	-	108.65	4,031.96	3,923.31

Table 1
Summary of Groundwater Elevations and PSH Thickness
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Well Borehole/ID	Date Measured	Well Total Depth (feet)	Product (feet below TOC)	Water level (feet below TOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
MW-13 continued	8/15/2013	-	-	108.65	4,031.96	3,923.31
	10/2/2013	-	-	108.75	4,031.96	3,923.21
	12/23/2013	-	-	108.83	4,031.96	3,923.13
	1/9/2014	-	-	118.34	4,031.96	3,913.62
	2/12/2014	-	-	108.53	4,031.96	3,923.43
	3/19/2014	-	-	108.50	4,031.96	3,923.46
	4/3/2014	-	-	108.05	4,031.96	3,923.91
	5/7/2014	-	-	107.90	4,031.96	3,924.06
	6/5/2014	-	-	107.92	4,031.96	3,924.04
	7/1/2014	-	-	108.01	4,031.96	3,923.95
	7/22/2014	-	-	108.12	4,031.96	3,923.84
	8/5/2014	-	-	108.06	4,031.96	3,923.90
	9/4/2014	-	-	107.93	4,031.96	3,924.03
	10/2/2014	-	-	107.93	4,031.96	3,924.03
	11/6/2014	-	-	108.31	4,031.96	3,923.65
	12/4/2014	-	-	107.93	4,031.96	3,924.03
	8/24/2015	-	-	108.50	4,031.96	3,923.46
	1/20/2016	-	-	108.60	4,031.96	3,923.36
	2/16/2016	-	-	108.65	4,031.96	3,923.31
	3/15/2016	-	-	108.65	4,031.96	3,923.31
	4/20/2016	-	-	108.74	4,031.96	3,923.22
	5/17/2016	-	-	108.92	4,031.96	3,923.04
	8/16/2016	-	-	108.92	4,031.96	3,923.04
	9/20/2016	-	-	108.86	4,031.96	3,923.10
	10/18/2016	-	-	108.74	4,031.96	3,923.22
	12/20/2016	-	-	109.02	4,031.96	3,922.94
	8/3/2017	127	-	108.80	4,031.96	3,923.16
	8/16/2018	-	-	108.40	4,031.96	3,923.56
	8/15/2019	-	-	108.27	4,031.96	3,923.69
	8/18/2020	125.1	-	108.37	4,031.96	3,923.59
MW-14	12/13/2001	-	-	74.67	4,006.98	3,932.31
	3/22/2002	-	-	74.67	4,006.98	3,932.31
	9/16/2002	-	-	74.56	4,006.98	3,932.42
	9/20/2002	-	-	74.40	4,006.98	3,932.58
	4/5/2004	-	-	75.20	4,006.98	3,931.78
	5/17/2004	-	-	75.25	4,006.98	3,931.73
	5/24/2004	-	-	75.17	4,006.98	3,931.81
	6/1/2004	-	-	75.18	4,006.98	3,931.80
	6/7/2004	-	-	75.12	4,006.98	3,931.86
	6/15/2004	-	-	75.23	4,006.98	3,931.75

Table 1
Summary of Groundwater Elevations and PSH Thickness
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Well Borehole/ID	Date Measured	Well Total Depth (feet)	Product (feet below TOC)	Water level (feet below TOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
MW-14 continued	6/21/2004	-	-	75.24	4,006.98	3,931.74
	6/28/2004	-	-	75.55	4,006.98	3,931.43
	7/6/2004	-	-	75.37	4,006.98	3,931.61
	7/12/2004	-	-	75.49	4,006.98	3,931.49
	7/19/2004	-	-	75.43	4,006.98	3,931.55
	7/26/2004	-	-	75.64	4,006.98	3,931.34
	8/2/2004	-	-	75.49	4,006.98	3,931.49
	8/10/2004	-	-	75.62	4,006.98	3,931.36
	8/16/2004	-	-	75.59	4,006.98	3,931.39
	8/23/2004	-	-	75.32	4,006.98	3,931.66
	8/30/2004	-	-	75.57	4,006.98	3,931.41
	9/8/2004	-	-	75.65	4,006.98	3,931.33
	10/8/2004	-	-	75.61	4,006.98	3,931.37
	12/30/2004	-	-	75.45	4,006.98	3,931.53
	1/17/2005	-	-	75.74	4,006.98	3,931.24
	2/9/2005	-	-	75.46	4,006.98	3,931.52
	3/9/2005	-	-	75.37	4,006.98	3,931.61
	4/5/2005	-	-	74.84	4,006.98	3,932.14
	5/10/2005	-	-	74.72	4,006.98	3,932.26
	6/8/2005	-	-	74.71	4,006.98	3,932.27
	7/5/2005	-	-	74.93	4,006.98	3,932.05
	8/8/2005	-	-	74.78	4,006.98	3,932.20
	9/14/2005	-	-	74.62	4,006.98	3,932.36
	10/12/2005	-	-	74.69	4,006.98	3,932.29
	11/9/2005	-	-	74.69	4,006.98	3,932.29
	12/14/2005	-	-	74.29	4,006.98	3,932.69
	1/12/2006	-	-	74.01	4,006.98	3,932.97
	2/2/2006	-	-	73.91	4,006.98	3,933.07
	3/7/2006	-	-	73.97	4,006.98	3,933.01
	4/5/2006	-	-	73.80	4,006.98	3,933.18
	5/8/2006	-	-	73.69	4,006.98	3,933.29
	6/5/2006	-	-	73.78	4,006.98	3,933.20
	7/11/2006	-	-	73.83	4,006.98	3,933.15
	8/16/2006	-	-	73.94	4,006.98	3,933.04
	9/7/2006	-	-	72.93	4,006.98	3,934.05
	10/11/2006	-	-	73.95	4,006.98	3,933.03
	11/8/2006	-	-	73.88	4,006.98	3,933.10
	12/4/2006	-	-	74.53	4,006.98	3,932.45
	1/4/2007	-	-	73.79	4,006.98	3,933.19
	2/27/2007	-	-	73.73	4,006.98	3,933.25
	3/20/2007	-	-	73.90	4,006.98	3,933.08

Table 1
Summary of Groundwater Elevations and PSH Thickness
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Well Borehole/ID	Date Measured	Well Total Depth (feet)	Product (feet below TOC)	Water level (feet below TOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
MW-14 continued	4/17/2007	-	-	73.68	4,006.98	3,933.30
	5/7/2007	-	-	73.88	4,006.98	3,933.10
	6/27/2007	-	-	73.80	4,006.98	3,933.18
	7/19/2007	-	-	73.69	4,006.98	3,933.29
	8/21/2007	-	-	73.61	4,006.98	3,933.37
	9/17/2007	-	-	73.54	4,006.98	3,933.44
	10/16/2007	-	-	73.39	4,006.98	3,933.59
	11/20/2007	-	-	73.34	4,006.98	3,933.64
	12/21/2007	-	-	73.05	4,006.98	3,933.93
	1/22/2008	-	-	73.44	4,006.98	3,933.54
	2/27/2008	-	-	73.37	4,006.98	3,933.61
	3/25/2008	-	-	73.17	4,006.98	3,933.81
	4/29/2008	-	-	73.16	4,006.98	3,933.82
	5/5/2008	-	-	73.14	4,006.98	3,933.84
	6/10/2008	-	-	73.16	4,006.98	3,933.82
	7/15/2008	-	-	73.25	4,006.98	3,933.73
	8/19/2008	-	-	73.32	4,006.98	3,933.66
	9/16/2008	-	-	73.68	4,006.98	3,933.30
	10/15/2008	-	-	73.67	4,006.98	3,933.31
	11/12/2008	-	-	73.44	4,006.98	3,933.54
	12/11/2008	-	-	73.69	4,006.98	3,933.29
	1/13/2009	-	-	73.89	4,006.98	3,933.09
	2/11/2009	-	-	73.57	4,006.98	3,933.41
	3/10/2009	-	-	73.34	4,006.98	3,933.64
	4/13/2009	-	-	73.43	4,006.98	3,933.55
	5/1/2009	-	-	73.30	4,006.98	3,933.68
	6/8/2009	-	-	73.15	4,006.98	3,933.83
	7/13/2009	-	-	73.29	4,006.98	3,933.69
	8/10/2009	-	-	73.32	4,006.98	3,933.66
	9/15/2009	-	-	73.22	4,006.98	3,933.76
	10/6/2009	-	-	73.15	4,006.98	3,933.83
	11/9/2009	-	-	73.43	4,006.98	3,933.55
	12/23/2009	-	-	72.93	4,006.98	3,934.05
	1/20/2010	-	-	72.88	4,006.98	3,934.10
	2/9/2010	-	-	73.48	4,006.98	3,933.50
	3/9/2010	-	-	73.09	4,006.98	3,933.89
	4/12/2010	-	-	73.40	4,006.98	3,933.58
	5/24/2010	-	-	73.24	4,006.98	3,933.74
	6/14/2010	-	-	73.40	4,006.98	3,933.58
	7/20/2010	-	-	73.53	4,006.98	3,933.45
	8/11/2010	-	-	73.59	4,006.98	3,933.39

Table 1
Summary of Groundwater Elevations and PSH Thickness
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Well Borehole/ID	Date Measured	Well Total Depth (feet)	Product (feet below TOC)	Water level (feet below TOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
MW-14 continued	9/21/2010	-	-	73.55	4,006.98	3,933.43
	10/20/2010	-	-	73.74	4,006.98	3,933.24
	11/8/2010	-	-	73.62	4,006.98	3,933.36
	12/7/2010	-	-	73.73	4,006.98	3,933.25
	1/18/2011	-	-	73.73	4,006.98	3,933.25
	2/8/2011	-	-	73.53	4,006.98	3,933.45
	3/8/2011	-	-	73.54	4,006.98	3,933.44
	4/13/2011	-	-	73.78	4,006.98	3,933.20
	5/23/2011	-	-	73.75	4,006.98	3,933.23
	6/28/2011	-	-	74.04	4,006.98	3,932.94
	7/19/2011	-	-	73.93	4,006.98	3,933.05
	8/31/2011	-	-	73.82	4,006.98	3,933.16
	9/27/2011	-	-	73.92	4,006.98	3,933.06
	10/24/2011	-	-	74.05	4,006.98	3,932.93
	11/29/2011	-	-	74.22	4,006.98	3,932.76
	12/23/2011	-	-	74.09	4,006.98	3,932.89
	1/31/2012	-	-	74.05	4,006.98	3,932.93
	2/29/2012	-	-	74.12	4,006.98	3,932.86
	3/27/2012	-	-	74.05	4,006.98	3,932.93
	4/18/2012	-	-	74.23	4,006.98	3,932.75
	5/21/2012	-	-	74.49	4,006.98	3,932.49
	7/17/2012	-	-	74.41	4,006.98	3,932.57
	8/21/2012	-	-	74.46	4,006.98	3,932.52
	9/17/2012	-	-	74.36	4,006.98	3,932.62
	12/13/2012	-	-	74.26	4,006.98	3,932.72
	1/9/2013	-	-	74.85	4,006.98	3,932.13
	2/6/2013	-	-	74.66	4,006.98	3,932.32
	3/6/2013	-	-	74.97	4,006.98	3,932.01
	6/5/2013	-	-	74.93	4,006.98	3,932.05
	7/3/2013	-	-	75.15	4,006.98	3,931.83
	7/30/2013	-	-	75.14	4,006.98	3,931.84
	8/15/2013	-	-	75.21	4,006.98	3,931.77
	10/2/2013	-	-	75.15	4,006.98	3,931.83
	12/23/2013	-	-	75.59	4,006.98	3,931.39
	1/9/2014	-	-	75.23	4,006.98	3,931.75
	2/12/2014	-	-	75.50	4,006.98	3,931.48
	3/19/2014	-	-	75.63	4,006.98	3,931.35
	4/3/2014	-	-	75.24	4,006.98	3,931.74
	5/7/2014	-	-	75.26	4,006.98	3,931.72
	6/5/2014	-	-	75.37	4,006.98	3,931.61
	7/1/2014	-	-	75.60	4,006.98	3,931.38

Table 1
Summary of Groundwater Elevations and PSH Thickness
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Well Borehole/ID	Date Measured	Well Total Depth (feet)	Product (feet below TOC)	Water level (feet below TOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
MW-14 continued	7/22/2014	-	-	75.77	4,006.98	3,931.21
	8/5/2014	-	-	75.77	4,006.98	3,931.21
	9/4/2014	-	-	75.67	4,006.98	3,931.31
	10/2/2014	-	-	75.70	4,006.98	3,931.28
	11/6/2014	-	-	76.15	4,006.98	3,930.83
	12/4/2014	-	-	75.78	4,006.98	3,931.20
	8/24/2015	-	-	75.10	4,006.98	3,931.88
	1/20/2016	-	-	74.31	4,006.98	3,932.67
	2/16/2016	-	-	74.22	4,006.98	3,932.76
	3/15/2016	-	-	74.06	4,006.98	3,932.92
	4/20/2016	-	-	74.02	4,006.98	3,932.96
	5/17/2016	-	-	74.09	4,006.98	3,932.89
	8/16/2016	-	-	73.91	4,006.98	3,933.07
	9/20/2016	-	-	73.87	4,006.98	3,933.11
	10/18/2016	-	-	73.70	4,006.98	3,933.28
	12/20/2016	-	-	73.72	4,006.98	3,933.26
	8/3/2017	120	-	78.35	4,006.98	3,928.63
	8/16/2018	-	-	73.30	4,006.98	3,933.68
	8/15/2019	-	-	73.70	4,006.98	3,933.28
	8/18/2020	119.2	-	73.75	4,006.98	3,933.23
MW-19	9/20/2002	-	-	117.23	4,037.34	3,920.11
	4/5/2004	-	-	116.67	4,037.34	3,920.67
	5/17/2004	-	-	116.62	4,037.34	3,920.72
	5/24/2004	-	-	116.59	4,037.34	3,920.75
	6/1/2004	-	-	116.57	4,037.34	3,920.77
	6/7/2004	-	-	116.59	4,037.34	3,920.75
	6/15/2004	-	-	116.53	4,037.34	3,920.81
	6/21/2004	-	-	116.63	4,037.34	3,920.71
	6/28/2004	-	-	116.68	4,037.34	3,920.66
	7/6/2004	-	-	116.65	4,037.34	3,920.69
	7/12/2004	-	-	116.66	4,037.34	3,920.68
	7/19/2004	-	-	116.68	4,037.34	3,920.66
	7/26/2004	-	-	116.73	4,037.34	3,920.61
	8/2/2004	-	-	116.71	4,037.34	3,920.63
	8/10/2004	-	-	116.71	4,037.34	3,920.63
	8/16/2004	-	-	116.74	4,037.34	3,920.60
	8/23/2004	-	-	116.69	4,037.34	3,920.65
	8/30/2004	-	-	116.69	4,037.34	3,920.65
	9/8/2004	-	-	116.73	4,037.34	3,920.61
	10/8/2004	-	-	116.78	4,037.34	3,920.56

Table 1
Summary of Groundwater Elevations and PSH Thickness
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Well Borehole/ID	Date Measured	Well Total Depth (feet)	Product (feet below TOC)	Water level (feet below TOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
MW-19 continued	12/30/2004	-	-	116.76	4,037.34	3,920.58
	1/17/2005	-	-	116.78	4,037.34	3,920.56
	2/9/2005	-	-	116.76	4,037.34	3,920.58
	3/9/2005	-	-	116.70	4,037.34	3,920.64
	4/5/2005	-	-	116.64	4,037.34	3,920.70
	5/10/2005	-	-	116.63	4,037.34	3,920.71
	6/8/2005	-	-	116.57	4,037.34	3,920.77
	7/5/2005	-	-	116.64	4,037.34	3,920.70
	8/8/2005	-	-	116.77	4,037.34	3,920.57
	9/15/2005	-	-	116.71	4,037.34	3,920.63
	10/12/2005	-	-	116.70	4,037.34	3,920.64
	11/9/2005	-	-	116.74	4,037.34	3,920.60
	12/14/2005	-	-	116.74	4,037.34	3,920.60
	1/12/2006	-	-	116.73	4,037.34	3,920.61
	2/2/2006	-	-	116.70	4,037.34	3,920.64
	3/7/2006	-	-	116.72	4,037.34	3,920.62
	4/5/2006	-	-	116.68	4,037.34	3,920.66
	5/8/2006	-	-	116.61	4,037.34	3,920.73
	6/5/2006	-	-	116.66	4,037.34	3,920.68
	7/11/2006	-	-	116.73	4,037.34	3,920.61
	8/16/2006	-	-	116.74	4,037.34	3,920.60
	9/7/2006	-	-	116.74	4,037.34	3,920.60
	10/11/2006	-	-	116.80	4,037.34	3,920.54
	11/8/2006	-	-	116.79	4,037.34	3,920.55
	12/4/2006	-	-	116.90	4,037.34	3,920.44
	1/4/2007	-	-	116.65	4,037.34	3,920.69
	2/27/2007	-	-	116.71	4,037.34	3,920.63
	3/20/2007	-	-	116.76	4,037.34	3,920.58
	4/17/2007	-	-	116.61	4,037.34	3,920.73
	5/7/2007	-	-	116.66	4,037.34	3,920.68
	6/27/2007	-	-	116.59	4,037.34	3,920.75
	7/19/2007	-	-	116.65	4,037.34	3,920.69
	8/21/2007	-	-	116.63	4,037.34	3,920.71
	9/17/2007	-	-	116.70	4,037.34	3,920.64
	10/16/2007	-	-	116.66	4,037.34	3,920.68
	11/20/2007	-	-	116.78	4,037.34	3,920.56
	12/21/2007	-	-	116.64	4,037.34	3,920.70
	1/22/2008	-	-	116.88	4,037.34	3,920.46
	2/27/2008	-	-	117.04	4,037.34	3,920.30
	3/25/2008	-	-	116.88	4,037.34	3,920.46
	4/29/2008	-	-	116.89	4,037.34	3,920.45

Table 1
Summary of Groundwater Elevations and PSH Thickness
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Well Borehole/ID	Date Measured	Well Total Depth (feet)	Product (feet below TOC)	Water level (feet below TOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
MW-19 continued	5/5/2008	-	-	116.82	4,037.34	3,920.52
	6/10/2008	-	-	116.79	4,037.34	3,920.55
	7/15/2008	-	-	116.88	4,037.34	3,920.46
	8/19/2008	-	-	116.89	4,037.34	3,920.45
	9/16/2008	-	-	117.17	4,037.34	3,920.17
	10/15/2008	-	-	117.09	4,037.34	3,920.25
	11/12/2008	-	-	116.82	4,037.34	3,920.52
	12/11/2008	-	-	117.09	4,037.34	3,920.25
	1/13/2009	-	-	117.28	4,037.34	3,920.06
	2/11/2009	-	-	116.83	4,037.34	3,920.51
	3/10/2009	-	-	116.78	4,037.34	3,920.56
	4/13/2009	-	-	116.80	4,037.34	3,920.54
	5/1/2009	-	-	116.77	4,037.34	3,920.57
	6/8/2009	-	-	116.61	4,037.34	3,920.73
	7/13/2009	-	-	116.78	4,037.34	3,920.56
	8/10/2009	-	-	116.74	4,037.34	3,920.60
	9/15/2009	-	-	116.62	4,037.34	3,920.72
	10/6/2009	-	-	116.47	4,037.34	3,920.87
	11/9/2009	-	-	116.64	4,037.34	3,920.70
	12/23/2009	-	-	116.29	4,037.34	3,921.05
	1/20/2010	-	-	116.27	4,037.34	3,921.07
	2/9/2010	-	-	116.61	4,037.34	3,920.73
	3/9/2010	-	-	116.32	4,037.34	3,921.02
	4/12/2010	-	-	116.62	4,037.34	3,920.72
	5/24/2010	-	-	116.37	4,037.34	3,920.97
	6/14/2010	-	-	116.51	4,037.34	3,920.83
	7/20/2010	-	-	116.59	4,037.34	3,920.75
	8/11/2010	-	-	116.58	4,037.34	3,920.76
	9/21/2010	-	-	116.49	4,037.34	3,920.85
	10/20/2010	-	-	116.60	4,037.34	3,920.74
	11/8/2010	-	-	116.52	4,037.34	3,920.82
	12/7/2010	-	-	116.57	4,037.34	3,920.77
	1/18/2011	-	-	116.38	4,037.34	3,920.96
	2/8/2011	-	-	116.37	4,037.34	3,920.97
	3/8/2011	-	-	116.21	4,037.34	3,921.13
	4/13/2011	-	-	116.12	4,037.34	3,921.22
	5/23/2011	-	-	116.35	4,037.34	3,920.99
	6/28/2011	-	-	116.57	4,037.34	3,920.77
	7/19/2011	-	-	116.49	4,037.34	3,920.85
	8/31/2011	-	-	116.37	4,037.34	3,920.97
	9/27/2011	-	-	116.38	4,037.34	3,920.96

Table 1
Summary of Groundwater Elevations and PSH Thickness
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Well Borehole/ID	Date Measured	Well Total Depth (feet)	Product (feet below TOC)	Water level (feet below TOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
MW-19 continued	10/24/2011	-	-	116.55	4,037.34	3,920.79
	11/29/2011	-	-	116.63	4,037.34	3,920.71
	12/23/2011	-	-	116.35	4,037.34	3,920.99
	1/31/2012	-	-	116.35	4,037.34	3,920.99
	2/29/2012	-	-	116.39	4,037.34	3,920.95
	3/27/2012	-	-	116.30	4,037.34	3,921.04
	4/18/2012	-	-	116.39	4,037.34	3,920.95
	5/21/2012	-	-	116.54	4,037.34	3,920.80
	7/17/2012	-	-	116.36	4,037.34	3,920.98
	8/21/2012	-	-	116.33	4,037.34	3,921.01
	9/17/2012	-	-	116.25	4,037.34	3,921.09
	12/13/2012	-	-	116.42	4,037.34	3,920.92
	1/9/2013	-	-	116.92	4,037.34	3,920.42
	2/6/2013	-	-	116.28	4,037.34	3,921.06
	3/6/2013	-	-	116.57	4,037.34	3,920.77
	5/1/2013	-	-	116.11	4,037.34	3,921.23
	6/5/2013	-	-	116.23	4,037.34	3,921.11
	7/3/2013	-	-	116.46	4,037.34	3,920.88
	7/30/2013	-	-	116.48	4,037.34	3,920.86
	8/15/2013	-	-	116.47	4,037.34	3,920.87
	10/2/2013	-	-	116.28	4,037.34	3,921.06
	12/23/2013	-	-	116.63	4,037.34	3,920.71
	1/9/2014	-	-	116.35	4,037.34	3,920.99
	2/12/2014	-	-	117.46	4,037.34	3,919.88
	3/19/2014	-	-	116.43	4,037.34	3,920.91
	4/3/2014	-	-	116.12	4,037.34	3,921.22
	5/7/2014	-	-	116.13	4,037.34	3,921.21
	6/5/2014	-	-	116.19	4,037.34	3,921.15
	7/1/2014	-	-	116.27	4,037.34	3,921.07
	7/22/2014	-	-	116.46	4,037.34	3,920.88
	8/5/2014	-	-	116.48	4,037.34	3,920.86
	9/4/2014	-	-	116.31	4,037.34	3,921.03
	10/2/2014	-	-	116.25	4,037.34	3,921.09
	11/6/2014	-	-	116.72	4,037.34	3,920.62
	12/4/2014	-	-	116.18	4,037.34	3,921.16
	8/24/2015	-	-	116.50	4,037.34	3,920.84
	1/20/2016	-	-	116.34	4,037.34	3,921.00
	2/16/2016	-	-	116.28	4,037.34	3,921.06
	3/15/2016	-	-	116.15	4,037.34	3,921.19
	4/20/2016	-	-	116.31	4,037.34	3,921.03
	5/17/2016	-	-	116.44	4,037.34	3,920.90

Table 1
Summary of Groundwater Elevations and PSH Thickness
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Well Borehole/ID	Date Measured	Well Total Depth (feet)	Product (feet below TOC)	Water level (feet below TOC)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet)
MW-19 continued	8/16/2016	-	-	116.41	4,037.34	3,920.93
	9/20/2016	-	-	116.40	4,037.34	3,920.94
	10/18/2016	-	-	116.16	4,037.34	3,921.18
	12/20/2016	-	-	116.60	4,037.34	3,920.74
	8/3/2017	120	-	117.32	4,037.34	3,920.02
	8/16/2018	-	-	116.35	4,037.34	3,920.99
	8/16/2019	-	-	116.42	4,037.34	3,920.92
	8/18/2020	121.3	-	116.17	4,037.34	3,921.17

Notes:

ft feet
 - No measurement
 TOC Top of casing
 AMSL Above mean sea level
 NG Not gauged

Table 2
Summary of Groundwater Analytical Data
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Sample ID	Sample Date	Carbonate Alkalinity (mg/L)	Bicarbonate Alkalinity (mg/L)	Total Alkalinity (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Nitrate as N (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)
NMWQCC Groundwater Quality Standards (mg/L)		NE	NE	NE	NE	250	10	600	1,000	0.01	0.75	0.75	0.62	NE	NE	NE	NE
EW-1	7/19/2007	--	--	--	--	1,820	--	--	3,370	ND	ND	ND	ND	--	--	--	--
	5/6/2008	ND	105	105	ND	41,500	ND	1,150	77,200	ND	ND	ND	ND	3,340	1,040	74.1	19,000
	5/5/2009	ND	99	99	ND	30,000	ND	1,110	60,000	ND	ND	ND	ND	3,680	1,110	58	21,700
	5/25/2010	ND	113	113	ND	29,600	ND	852	40,200	ND	ND	ND	ND	2,830	1,050	74.7	16,300
	5/24/2011	<5	110	110	8.8	32,300	0.57	865	58,300	<0.002	<0.002	<0.002	<0.006	2,450	694	69.6	14,400
	10/25/2011	<20	116	116	25.6	35,000	3.9	923	66,300	<0.001	0.003	<0.001	<0.003	2,400	624	42.7	11,300
	7/18/2012	<20	108	108	38	26,500	6.1	746	59,600	<0.001	<0.001	<0.001	<0.003	2,450	748	67.6	13,000
	8/1/2013	<20	148	148	<50	26,100	4	691	61,000	--	--	--	--	2,480	740	68.9	13,900
	7/23/2014	--	--	--	25.3	28,900	--	803	52,300	<0.001	<0.001	<0.001	<0.003	--	--	--	--
	8/26/2015	--	--	--	<5.0	24,200	--	711	65,000	--	--	--	--	--	--	--	--
DUP	8/10/2016	Not Sampled															
	8/3/2017	Not Sampled															
	8/16/2018	--	--	--	11.7	21,000	--	588	36,000	--	--	--	--	--	--	--	--
	8/16/2018	--	--	--	11.7	22,100	--	556	39,900	--	--	--	--	--	--	--	--
	8/16/2019	--	--	--	5.9	13,600	--	148	28,700	--	--	--	--	--	--	--	--
	8/16/2019	--	--	--	<0.0790	11,600	--	34	30,200	--	--	--	--	--	--	--	--
	8/18/2020	--	--	--	4.81 J	13,600	--	151	33,900	--	--	--	--	--	--	--	--
	8/18/2020	--	--	--	7.81	24,600	--	661	58,200	--	--	--	--	--	--	--	--
EW-2	10/4/2017	--	--	--	6.6	17,500	--	492	28,000	--	--	--	--	--	--	--	--
	8/16/2018	Not Sampled - pump out of service															
	8/15/2019	Not Sampled - pump out of service															
	10/9/2020	--	--	--	<100	20,100	--	576	39,600	--	--	--	--	--	--	--	--
MW-11	5/8/2007	ND	197	197	4.6	3,570	ND	440	7,400	ND	ND	ND	ND	1,060	258	7.8	496
	5/6/2008	ND	168	168	8.18	1,560	ND	163	4,140	0.009	ND	ND	ND	615	166	8.62	204
	5/5/2009	ND	162	162	6.82	1,140	ND	149	3,430	0.02	ND	ND	ND	528	150	6	172
	5/25/2010	ND	139	139	ND	1,010	ND	142	3,630	0.039	ND	ND	ND	332	105	4.44	118
	5/24/2011	<5	149	149	2.6	811	3.6	99.9	2,510	0.0912	<0.002	<0.002	<0.006	298	83.7	6.61	103
	10/25/2011	<20	220	220	2.7	715	4.9	90.9	1,790	<0.001	<0.001	<0.001	<0.003	325	86	6	101
	10/25/2011	<50	208	208	2.5	659	6.1	84.6	1,910	<0.001	<0.001	<0.001	<0.003	352	93	6	108
	7/18/2012	<20	144	144	4.1	560	7.3	55.3	1,780	<0.001	<0.001	<0.001	<0.003	215	64.2	3.6	80.6
	8/2/2013	<20	198	198	4.4	801	4.7	98.1	2,640	0.0056	<0.001	<0.001	<0.003	325	97.5	8.37	93.2
	7/23/2014	--	--	--	2.3	532	--	50.4	1,760	<0.001	<0.001	<0.001	<0.003	--	--	--	--
	8/26/2015	--	--	--	2.2	521	--	57.9	3,620	--	--	--	--	--	--	--	--
	8/10/2016	--	--	--	2.5	564	--	78.2	1,750	--	--	--	--	--	--	--	--
	8/10/2016	--	--	--	2.5	564	--	78	1,750	--	--	--	--	--	--	--	--
	8/3/2017	--	--	--	5.3	1,170	--	116	3,030	--	--	--	--	--	--	--	--
	8/16/2018	--	--	--	3.19	879	--	161	3,250	--	--	--	--	--	--	--	--
	8/15/2019	--	--	--	2.07	760	--	124	2,280	--	--	--	--	--	--	--	--
	8/18/2020	--	--	--	1.69	517	--	31.1	1,480	--	--	--	--	--	--	--	--
MW-12	5/8/2007	ND	79.8	79.8	19.2	61,700	ND	1,690	107,000	ND	ND	ND	ND	4,760	1,330	143	15,800
	5/8/2007	ND	79.9	79.9	19.2	50,200	ND	1,630	104,000	ND	ND	ND	ND	5,040	1,430	146	32,800
	5/6/2008	ND	97	97	ND	48,600	ND	1,600	88,500	ND	ND	ND	ND	3,880	1,030	84.3	24,000
	5/6/2008	ND	97	97	ND	45,100	ND	1,610	84,300	ND	ND	ND	ND	3,840	1,030	85.4	23,100
	5/5/2009	ND	101	101	ND	35,300	1.79	1,140	71,200	ND	ND	ND	ND	3,720	844	59.3	21,200
	5/5/2009	ND	116	116	ND	31,400	1.94	1,180	69,800	ND	ND	ND	ND	3,760	872	54.8	22,200
	5/25/2010	ND	106	106	ND	59,300	ND	1,210	72,000	ND	ND	ND	ND	2,490	700	42.4	14,300
	5/25/2010	ND	108	108	ND	47,700	ND	1,450	79,000	ND	ND	ND	ND	2,760	788	47.2	14,900
	5/24/2011	<20	114	114	9.7	45,500	2.2	1,170	66,400	<0.002	<0.002	<0.002	<0.006	3,260	794	79.1	15,100
	5/24/2011	<5	105	105	10.2	46,600	2	1,350	75,500	<0.002	<0.002	<0.002	<0.006	3,230	808	83.7	15,700
	10/25/2011	<20	138	138	<1	32,200	3	1,020	55,900	<0.001	<0.001	<0.001	<0.003	3,370	743	54	14,800

Table 2
Summary of Groundwater Analytical Data
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Sample ID	Sample Date	Carbonate Alkalinity (mg/L)	Bicarbonate Alkalinity (mg/L)	Total Alkalinity (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Nitrate as N (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)
DUP	7/18/2012	<20	122	122	32.6	25,000	3.3	716	57,200	<0.001	<0.001	<0.001	<0.003	3,420	812	56.5	11,400
	8/1/2013	<20	163	163	<50	21,400	3.6	731	47,000	<0.001	<0.001	<0.001	<0.003	2,580	613	60.6	12,100
	7/23/2014	--	--	--	<50	38,500	--	1,680	72,200	<0.001	<0.001	<0.001	<0.003	--	--	--	--
	8/26/2015	--	--	--	<5.0	26,200	--	804	87,300	--	--	--	--	--	--	--	--
	8/10/2016	--	--	--	34.1	30,900	--	1,070	63,900	--	--	--	--	--	--	--	--
	8/10/2016	--	--	--	34.1J	30,900	--	1,070	63,900	--	--	--	--	--	--	--	--
	8/3/2017	--	--	--	44.9	37,900	--	1,480	69,600	--	--	--	--	--	--	--	--
	8/3/2017	--	--	--	45.3	43,000	--	1,510	73,600	--	--	--	--	--	--	--	--
	8/16/2018	--	--	--	11.1	37,300	--	1,430	60,300	--	--	--	--	--	--	--	--
	8/16/2019	--	--	--	12.1	32,000	--	715	44,200	--	--	--	--	--	--	--	--
	8/18/2020	--	--	--	10.3	31,700	--	755	71,700	--	--	--	--	--	--	--	--
MW-13	5/8/2007	ND	209	209	0.9	217	16	249	1,160	ND	ND	ND	ND	198	43.1	ND	72.4
	5/6/2008	ND	201	201	ND	192	11.9	234	1,270	ND	ND	ND	ND	193	43.9	3.09	66.8
	5/5/2009	ND	204	204	1.32	212	15.9	236	1,400	ND	ND	ND	ND	226	46.8	3.1	74.4
	5/25/2010	ND	196	196	1.42	214	17.8	276	1,500	ND	ND	ND	ND	203	42.4	2.81	71.9
	5/24/2011	<5	217	218	1.4	235	15	267	1,120	<0.002	<0.002	<0.002	<0.006	204	41.4	<5.0	73.5
	10/25/2011	<20	765	765	1.3	233	18	253	1,090	<0.001	<0.001	<0.001	<0.003	541	99.6	16.9	81.3
	7/18/2012	<20	340	340	2.4	230	15.2	239	1,240	<0.001	<0.001	<0.001	<0.003	252	53.4	6.24	71.5
	8/1/2013	<20	243	243	1.7	221	15.7	232	1,420	<0.001	<0.001	<0.001	<0.003	321	51	6.22	74.9
	7/23/2014	--	--	--	1.7	206	--	284	1,160	<0.001	<0.001	<0.001	<0.003	--	--	--	--
	8/26/2015	--	--	--	1.2	201	--	278	1,850	--	--	--	--	--	--	--	--
	8/10/2016	--	--	--	7.4	206	--	310	1,220	--	--	--	--	--	--	--	--
	8/10/2016	--	--	--	7.4	206	--	310	1,220	--	--	--	--	--	--	--	--
	8/3/2017	--	--	--	2.0	192	--	267	972	--	--	--	--	--	--	--	--
	8/16/2018	--	--	--	1.42	200	--	248	1,180	--	--	--	--	--	--	--	--
	8/15/2019	--	--	--	3.00 J	237	--	247	1,350	--	--	--	--	--	--	--	--
	8/18/2020	--	--	--	1.99 J	218	--	254	1,100	--	--	--	--	--	--	--	--
MW-14	5/8/2007	ND	203	203	7.1	1,000	10.7	1,010	4,990	ND	ND	ND	ND	656	197	5.7	65.3
	5/6/2008	ND	208	208	8.04	658	10.1	904	3,760	ND	ND	ND	ND	613	165	6.09	57.1
	5/5/2009	ND	230	230	6.05	576	11.8	774	3,740	ND	ND	ND	ND	648	176	5.74	51.3
	5/25/2010	ND	263	263	4.96	566	13.7	1,030	2,430	ND	ND	ND	ND	544	150	6	79.3
	5/24/2011	<5	276	276	4.2	527	16	1,110	2,980	<0.002	<0.002	<0.002	<0.006	525	133	<5.0	57.7
	10/25/2011	<20	390	390	3.4	408	20	848	2,350	<0.001	<0.001	<0.001	<0.003	532	159	14.4	58.1
	7/18/2012	<20	314	314	1.1	382	16	812	2,430	<0.001	<0.001	<0.001	<0.003	455	137	9	49.8
	8/1/2013	<20	293	293	3	333	19.6	863	2,150	<0.001	<0.001	<0.001	<0.003	454	130	5	60.2
	8/1/2013	<20	289	289	3	359	20.8	946	2,170	<0.001	<0.001	<0.001	<0.003	452	132	6	62.2
	7/23/2014	--	--	--	3.2	393	--	847	2,430	<0.001	<0.001	<0.001	<0.003	--	--	--	--
	7/23/2014	--	--	--	3.2	362	--	784	2,280	<0.001	<0.001	<0.001	<0.003	--	--	--	--
	8/26/2015	--	--	--	1.4	160	--	930	3,130	--	--	--	--	--	--	--	--
	8/10/2016	--	--	--	1.7	190	--	1,010	2,180	--	--	--	--	--	--	--	--
	8/10/2016	--	--	--	1.7	190	--	1,010	2,180	--	--	--	--	--	--	--	--
	8/3/2017	--	--	--	2.4	215	--	953	2,220	--	--	--	--	--	--	--	--
	8/16/2018	--	--	--	<1.00	222	--	923	2,100	--	--	--	--	--	--	--	--
	8/15/2019	--	--	--	<1.00	67.9	--	585	1,270	--	--	--	--	--	--	--	--
	8/18/2020	--	--	--	<10.0	62.4	--	572	1,290	--	--	--	--	--	--	--	--
MW-19	5/8/2007	ND	272	272	1.1	101	0.75	20.8	837	ND	ND	ND	ND	1,690	571	24.7	983
	5/6/2008	ND	229	229	ND	114	1.06	29.3	1,190	ND	ND	ND	ND	3,220	617	27.8	1,260
	5/5/2009	ND	241	241	0.836	105	0.944	26.7	597	ND	ND	ND	ND	1,850	664	21.5	1,020
	5/25/2010	ND	245	245	0.97	108	0.867	33.2	1,080	ND	ND	ND	ND	2,050	632	53.8	1,000
	5/24/2011	<5	255	256	1.1	140	1.4	27.4	589	<0.002	<0.002	<0.002	<0.006	3,080	640	41.9	1,050
	10/25/2011	<20	436	436	<1	122	2.2	32.9	523	<0.001	<0.001	<0.001	<0.003	2,240	654	39.6	1,070
	7/18/2012	<20	635	635	1.4	113	2.6	27.8	585	<0.001	<0.001	<0.001	<0.003	203	37	4.2	53

Table 2
Summary of Groundwater Analytical Data
ConocoPhillips - Maljamar E&P
Lea County, New Mexico

Sample ID	Sample Date	Carbonate Alkalinity (mg/L)	Bicarbonate Alkalinity (mg/L)	Total Alkalinity (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Nitrate as N (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)
DUP	8/1/2013	<20	289	289	1.3	112	3.1	27.8	583	<0.001	<0.001	<0.001	<0.003	--	--	--	--
	7/23/2014	--	--	--	1.4	113	--	31.3	557	<0.001	<0.001	<0.001	<0.003	--	--	--	--
	8/26/2015	--	--	--	<1.0	111	--	32.2	696	--	--	--	--	--	--	--	--
	8/26/2015	--	--	--	1.2	112	--	32.1	602	--	--	--	--	--	--	--	--
	8/10/2016	--	--	--	1.2	123	--	29.3	590	--	--	--	--	--	--	--	--
	8/10/2016	--	--	--	1.2	123	--	29.3	590	--	--	--	--	--	--	--	--
	8/3/2017	--	--	--	1.5	114	--	29.0	540	--	--	--	--	--	--	--	--
	8/16/2018	--	--	--	0.996 J	117	--	32.5	587	--	--	--	--	--	--	--	--
	8/16/2019	--	--	--	1.1	131	--	41.7	640	--	--	--	--	--	--	--	--
	8/18/2020	--	--	--	0.935 J	132	--	41.1	602	--	--	--	--	--	--	--	--

Notes:

NMWQCC New Mexico Water Quality Control Commission

mg/L Milligrams per liter

NS Not sampled

Exceeds NMWQCC groundwater quality standards

J The identification of the analyte is acceptable; the reported value is an estimate

-- Not analyzed

DUP Duplicate sample

NE Not established

ND Not detected above laboratory detection limit



APPENDIX A



ANALYTICAL REPORT

August 27, 2020

ConocoPhillips - Tetra Tech

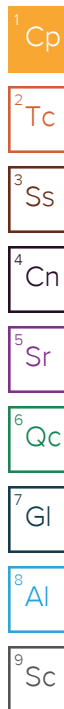
Sample Delivery Group: L1253284
Samples Received: 08/21/2020
Project Number: 212C-MD-02069
Description: Maljamar E&P Groundwater

Report To: Julie Evans
4001 N. Big Spring St., Ste. 401
Midland, TX 79705

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	5	
Sr: Sample Results	6	³ Ss
MW-14 L1253284-01	6	
MW-13 L1253284-02	7	⁴ Cn
MW-11 L1253284-03	8	⁵ Sr
MW-19 L1253284-04	9	
MW-12 L1253284-05	10	⁶ Qc
EW-1 L1253284-06	11	
DUP L1253284-07	12	⁷ Gl
Qc: Quality Control Summary	13	⁸ Al
Gravimetric Analysis by Method 2540 C-2011	13	
Wet Chemistry by Method 9056A	14	⁹ Sc
Gl: Glossary of Terms	16	
Al: Accreditations & Locations	17	
Sc: Sample Chain of Custody	18	

MW-14 L1253284-01 GW

Collected by Preston Poitevint
Collected date/time 08/18/20 11:25
Received date/time 08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1530811	1	08/23/20 09:26	08/23/20 11:32	TH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531555	1	08/25/20 16:33	08/25/20 16:33	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531555	10	08/25/20 16:46	08/25/20 16:46	ELN	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

MW-13 L1253284-02 GW

Collected by Preston Poitevint
Collected date/time 08/18/20 12:20
Received date/time 08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1530811	1	08/23/20 09:26	08/23/20 11:32	TH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531555	5	08/25/20 16:59	08/25/20 16:59	ELN	Mt. Juliet, TN

MW-11 L1253284-03 GW

Collected by Preston Poitevint
Collected date/time 08/18/20 13:15
Received date/time 08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1530811	1	08/23/20 09:26	08/23/20 11:32	TH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531555	1	08/25/20 17:25	08/25/20 17:25	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531555	20	08/25/20 17:38	08/25/20 17:38	ELN	Mt. Juliet, TN

MW-19 L1253284-04 GW

Collected by Preston Poitevint
Collected date/time 08/18/20 14:15
Received date/time 08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1530811	1	08/23/20 09:26	08/23/20 11:32	TH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531555	1	08/25/20 17:51	08/25/20 17:51	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531555	5	08/25/20 18:31	08/25/20 18:31	ELN	Mt. Juliet, TN

MW-12 L1253284-05 GW

Collected by Preston Poitevint
Collected date/time 08/18/20 15:10
Received date/time 08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1530811	1	08/23/20 09:26	08/23/20 11:32	TH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531555	10	08/25/20 19:10	08/25/20 19:10	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531555	500	08/26/20 12:37	08/26/20 12:37	ELN	Mt. Juliet, TN

EW-1 L1253284-06 GW

Collected by Preston Poitevint
Collected date/time 08/18/20 16:20
Received date/time 08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1530811	1	08/23/20 09:26	08/23/20 11:32	TH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531555	5	08/25/20 19:36	08/25/20 19:36	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531555	500	08/25/20 19:49	08/25/20 19:49	ELN	Mt. Juliet, TN

DUP L1253284-07 GW

Collected by Preston Poitevint
Collected date/time 08/18/20 00:00
Received date/time 08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1530811	1	08/23/20 09:26	08/23/20 11:32	TH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531555	10	08/26/20 12:50	08/26/20 12:50	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1531555	5	08/25/20 20:02	08/25/20 20:02	ELN	Mt. Juliet, TN

DUP L1253284-07 GW

Collected by Preston Poitevint
Collected date/time 08/18/20 00:00
Received date/time 08/21/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1531555	500	08/25/20 20:15	08/25/20 20:15	ELN	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

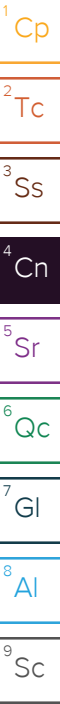
⁸Al

⁹Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager



Collected date/time: 08/18/20 11:25

L1253284

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1290		2.82	10.0	1	08/23/2020 11:32	WG1530811

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Bromide	U		3.53	10.0	10	08/25/2020 16:46	WG1531555
Chloride	62.4		0.379	1.00	1	08/25/2020 16:33	WG1531555
Sulfate	572		5.94	50.0	10	08/25/2020 16:46	WG1531555

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 08/18/20 12:20

L1253284

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1100		2.82	10.0	1	08/23/2020 11:32	WG1530811

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bromide	1.99	J	1.76	5.00	5	08/25/2020 16:59	WG1531555
Chloride	218		1.90	5.00	5	08/25/2020 16:59	WG1531555
Sulfate	254		2.97	25.0	5	08/25/2020 16:59	WG1531555

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 08/18/20 13:15

L1253284

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1480		2.82	10.0	1	08/23/2020 11:32	WG1530811

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bromide	1.69		0.353	1.00	1	08/25/2020 17:25	WG1531555
Chloride	517		7.58	20.0	20	08/25/2020 17:38	WG1531555
Sulfate	31.1		0.594	5.00	1	08/25/2020 17:25	WG1531555

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 08/18/20 14:15

L1253284

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	602		2.82	10.0	1	08/23/2020 11:32	WG1530811

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bromide	0.935	J	0.353	1.00	1	08/25/2020 17:51	WG1531555
Chloride	132		1.90	5.00	5	08/25/2020 18:31	WG1531555
Sulfate	41.1		0.594	5.00	1	08/25/2020 17:51	WG1531555

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 08/18/20 15:10

L1253284

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	71700		282	1000	1	08/23/2020 11:32	WG1530811

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Bromide	10.3		3.53	10.0	10	08/25/2020 19:10	WG1531555
Chloride	31700		190	500	500	08/26/2020 12:37	WG1531555
Sulfate	755		5.94	50.0	10	08/25/2020 19:10	WG1531555

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 08/18/20 16:20

L1253284

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	33900		282	1000	1	08/23/2020 11:32	WG1530811

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bromide	4.81	J	1.76	5.00	5	08/25/2020 19:36	WG1531555
Chloride	13600		190	500	500	08/25/2020 19:49	WG1531555
Sulfate	151		2.97	25.0	5	08/25/2020 19:36	WG1531555

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Collected date/time: 08/18/20 00:00

L1253284

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	58200		282	1000	1	08/23/2020 11:32	WG1530811

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Bromide	7.81		1.76	5.00	5	08/25/2020 20:02	WG1531555
Chloride	24600		190	500	500	08/25/2020 20:15	WG1531555
Sulfate	661		5.94	50.0	10	08/26/2020 12:50	WG1531555

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3563261-1 08/23/20 11:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

L1253037-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1253037-09 08/23/20 11:32 • (DUP) R3563261-3 08/23/20 11:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	529	519	1	1.91		5

Laboratory Control Sample (LCS)

(LCS) R3563261-2 08/23/20 11:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	7610	86.5	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 9056A

[L1253284-01,02,03,04,05,06,07](#)

Method Blank (MB)

(MB) R3564020-1 08/25/20 12:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bromide	U		0.353	1.00
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1253284-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1253284-02 08/25/20 16:59 • (DUP) R3564020-3 08/25/20 17:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Bromide	1.99	1.99	5	0.211	U	15
Chloride	218	218	5	0.267		15
Sulfate	254	255	5	0.129		15

L1253303-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1253303-03 08/25/20 20:54 • (DUP) R3564020-6 08/25/20 21:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Bromide	0.588	0.591	1	0.458	U	15
Sulfate	0.923	0.892	1	3.39	U	15

L1253303-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1253303-03 08/26/20 13:03 • (DUP) R3564020-8 08/26/20 13:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	121	121	5	0.0230		15

Laboratory Control Sample (LCS)

(LCS) R3564020-2 08/25/20 12:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromide	40.0	39.4	98.5	80.0-120	
Chloride	40.0	39.8	99.6	80.0-120	
Sulfate	40.0	40.0	99.9	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 9056A

[L1253284-01,02,03,04,05,06,07](#)

L1253284-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1253284-04 08/25/20 17:51 • (MS) R3564020-4 08/25/20 18:04 • (MSD) R3564020-5 08/25/20 18:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Bromide	50.0	0.935	52.9	53.4	104	105	1	80.0-120			0.829	15
Chloride	50.0	129	175	176	91.9	94.2	1	80.0-120	E	E	0.671	15
Sulfate	50.0	41.1	92.8	94.2	103	106	1	80.0-120			1.50	15

L1253337-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1253337-01 08/25/20 22:13 • (MS) R3564020-7 08/25/20 22:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Bromide	50.0	U	52.4	105	1	80.0-120	
Chloride	50.0	1.06	53.1	104	1	80.0-120	
Sulfate	50.0	11.4	63.8	105	1	80.0-120	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

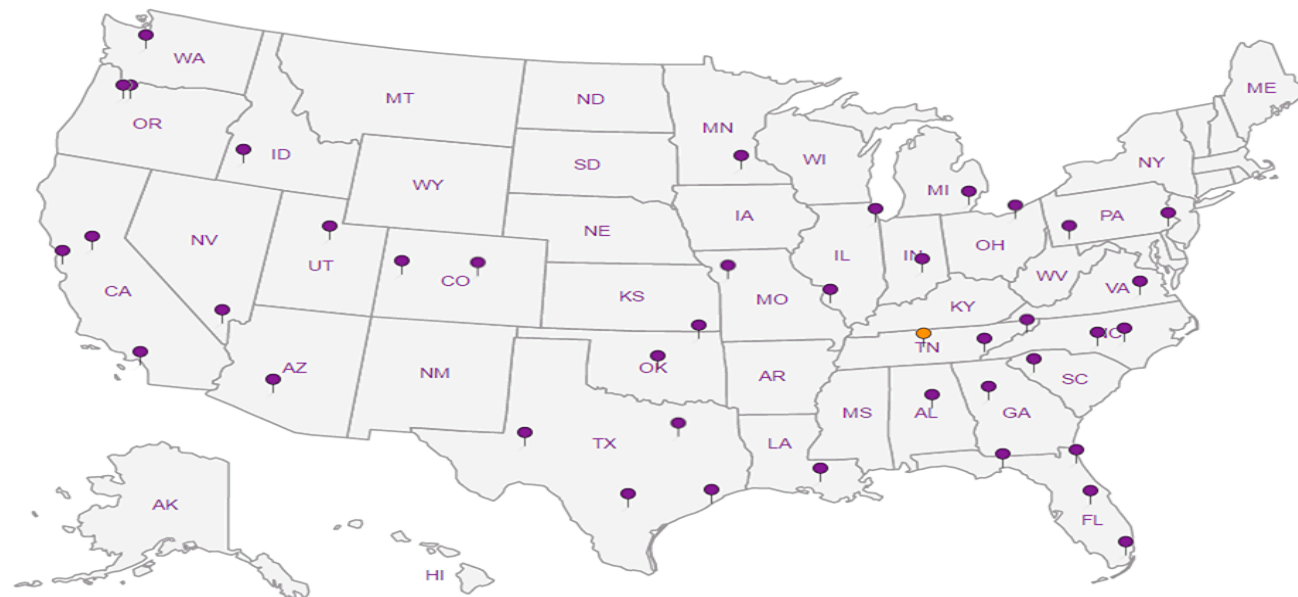
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



onocoPhillips - Tetra Tech

Billing Information:
901 West Wall St
Suite 100
Midland, TX 79701Pres
ChkEmail To:
Julie.evans@tetratech.comReport to:
Julie Evans

Project Maljamar E&P Groundwater

Description:

Phone: 432-687-8137

Fax:

Collected by (print):

Collected by (signature):

Immediately
Packed on Ice N ☒ Y ☒Client Project #
212C-MD-02069

Site/Facility ID #

Rush? (Lab MUST Be Notified)

☐ Same Day ☐ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

City/State
Collected:Lab Project #
COPTETRA-MALJAMAR

P.O. #

Quote #

Date Results Needed

No.
of
Cntrs

Analysis / Container / Preservative

Chain of Custody

Page 1 of 1



Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# 1253284

Table # FO18

Acctnum: COPTETRA

Template:

Prelogin:

TSR: 526 - Chris McCord

PB:

Shipped Via:

Remarks

Sample # (lab only)

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

No.
of
Cntrs

Br, Cl, SO4 125mlHDPE-NoPres

Br, Cl, SO4 125mlHDPE-NoPres

Mw-14

Mw-13

Mw-11

Mw-19

Mw-12

Gw-1

DUP

Gw

Gw

Gw

Gw

Gw

Gw

Gw

Gw

8-18-20

8-18-20

8-18-20

8-18-20

8-18-20

8-18-20

8-18-20

8-18-20

1125

1220

1315

1415

1510

1620

—

2

2

2

2

2

2

2

2

2

X

X

X

X

X

X

X

X

X

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

Samples returned via:
UPS ☐ FedEx ☐ Courier ☐

Tracking #

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

pH _____ Temp _____

Flow _____ Other _____

Trip Blank Received: Yes / No ☒
HCL / MeOH
TBR

Temp: °C ☒ Bottles Received: 14
3.5-3.4

Date: 8/21/20 Time: 930

Sample Receipt Checklist
COC Seal Present/Intact: ☒ Y ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
If Applicable
VOA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N
HAD SCREEN: <0.5 mR/hr

If preservation required by Login: Date/time

Hold:

Condition:
NCF / OK



ANALYTICAL REPORT

October 26, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group: L1274067
Samples Received: 10/15/2020
Project Number: 212C-MD-02069
Description: Maljamar E&P Groundwater

Report To: Julie Evans
4001 N. Big Spring St., Ste. 401
Midland, TX 79705

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
EW-2 L1274067-01	5	⁴ Cn
Qc: Quality Control Summary	6	
Gravimetric Analysis by Method 2540 C-2011	6	⁵ Sr
Wet Chemistry by Method 9056A	7	⁶ Qc
Gl: Glossary of Terms	9	
Al: Accreditations & Locations	10	⁷ Gl
Sc: Sample Chain of Custody	11	⁸ Al
		⁹ Sc

EW-2 L1274067-01 GW

Collected by
Matthew C.
Collected date/time
10/09/20 14:30
Received date/time
10/15/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1560743	1	10/16/20 19:31	10/16/20 20:03	TH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1561836	100	10/21/20 03:13	10/21/20 03:13	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1561836	500	10/21/20 03:24	10/21/20 03:24	ELN	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

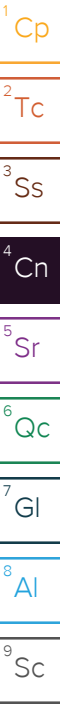
8Al

9Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager



Collected date/time: 10/09/20 14:30

L1274067

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	39600		28.2	100	1	10/16/2020 20:03	WG1560743

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Bromide	U		35.3	100	100	10/21/2020 03:13	WG1561836
Chloride	20100		190	500	500	10/21/2020 03:24	WG1561836
Sulfate	576		59.4	500	100	10/21/2020 03:13	WG1561836

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3583117-1 10/16/20 20:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	4.00		2.82	10.0

L1273827-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1273827-06 10/16/20 20:03 • (DUP) R3583117-3 10/16/20 20:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	94.0	97.0	1	3.14		5

Laboratory Control Sample (LCS)

(LCS) R3583117-2 10/16/20 20:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8810	100	77.4-123	

1

Cp

2

Tc

3

Ss

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Cn

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Sr

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Qc

7

Gl

8

Al

9

Sc

Wet Chemistry by Method 9056A

L1274067-01

Method Blank (MB)

(MB) R3583823-1 10/20/20 20:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bromide	U		0.353	1.00
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1274019-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1274019-01 10/20/20 23:03 • (DUP) R3583823-3 10/20/20 23:14

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Bromide	U	U	1	0.000		15
Chloride	9.01	8.93	1	0.823		15
Sulfate	2.20	2.16	1	1.89	U	15

L1274019-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1274019-10 10/21/20 01:57 • (DUP) R3583823-6 10/21/20 02:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Bromide	U	U	1	0.000		15
Chloride	22.0	21.9	1	0.436		15
Sulfate	1.12	1.12	1	0.384	U	15

Laboratory Control Sample (LCS)

(LCS) R3583823-2 10/20/20 20:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromide	40.0	37.8	94.4	80.0-120	
Chloride	40.0	37.9	94.9	80.0-120	
Sulfate	40.0	37.9	94.8	80.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1274019-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1274019-02 10/20/20 23:47 • (MS) R3583823-4 10/20/20 23:58 • (MSD) R3583823-5 10/21/20 00:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromide	50.0	U	49.3	49.1	98.6	98.3	1	80.0-120			0.373	15
Chloride	50.0	25.5	75.5	76.1	99.9	101	1	80.0-120			0.738	15
Sulfate	50.0	4.49	54.6	55.1	100	101	1	80.0-120			0.859	15

L1274019-12 Original Sample (OS) • Matrix Spike (MS)

(OS) L1274019-12 10/21/20 02:19 • (MS) R3583823-7 10/21/20 02:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Bromide	50.0	U	48.8	97.6	1	80.0-120	
Chloride	50.0	68.3	117	97.0	1	80.0-120	E
Sulfate	50.0	14.2	65.7	103	1	80.0-120	

1
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

7
Gl

8
Al

9
Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

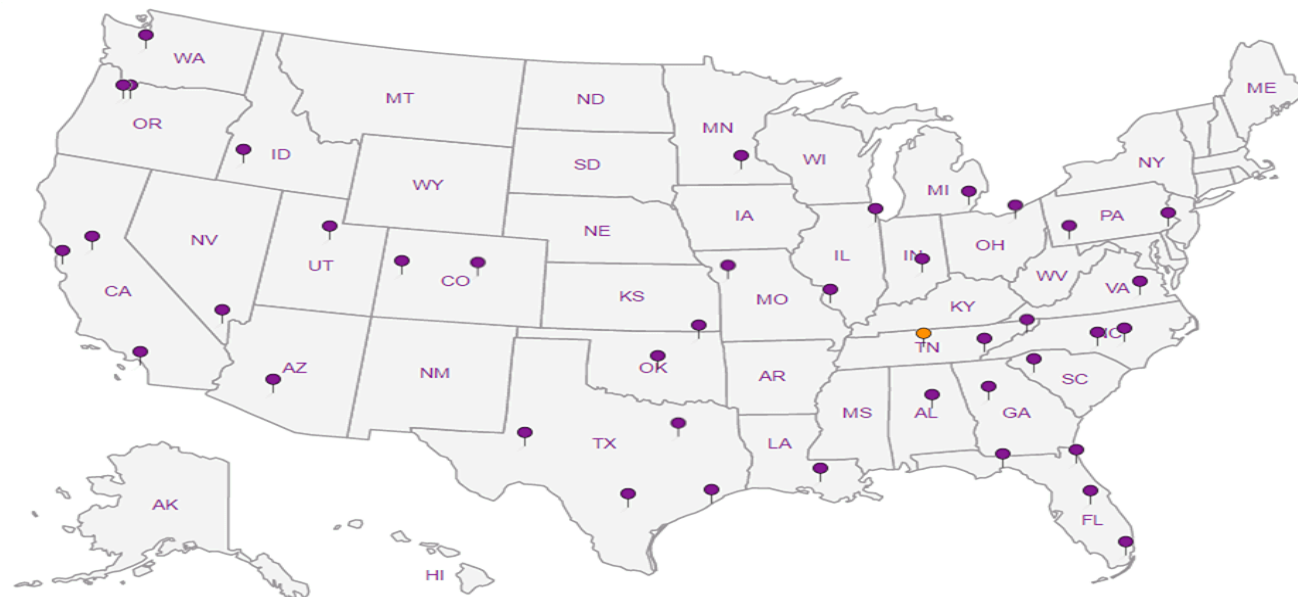
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A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
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EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

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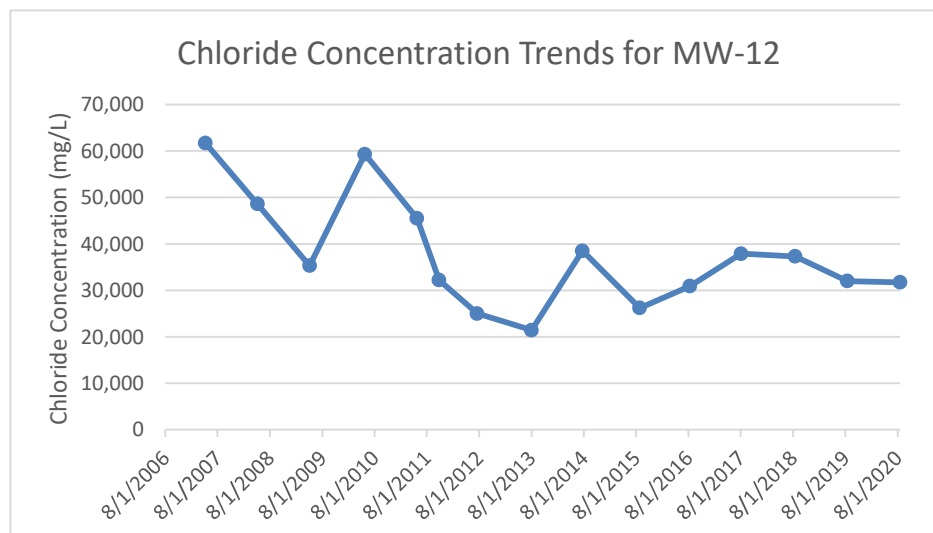
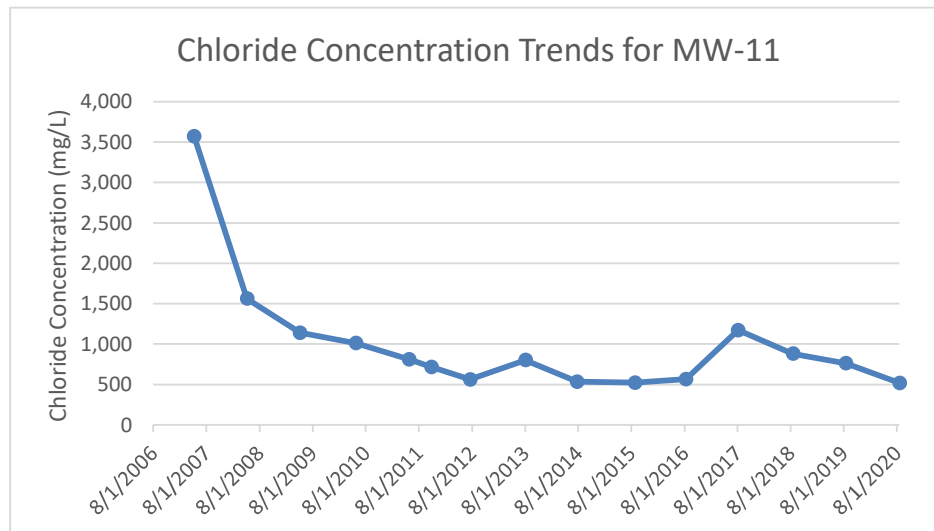
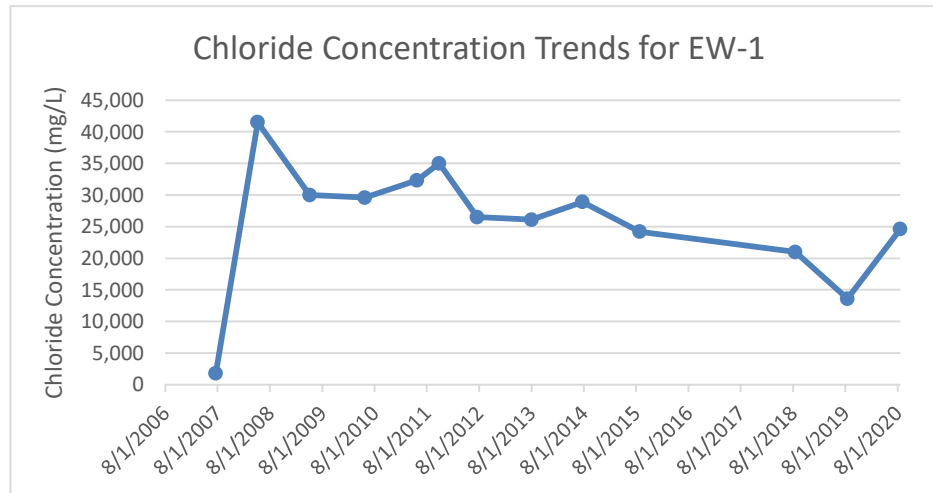


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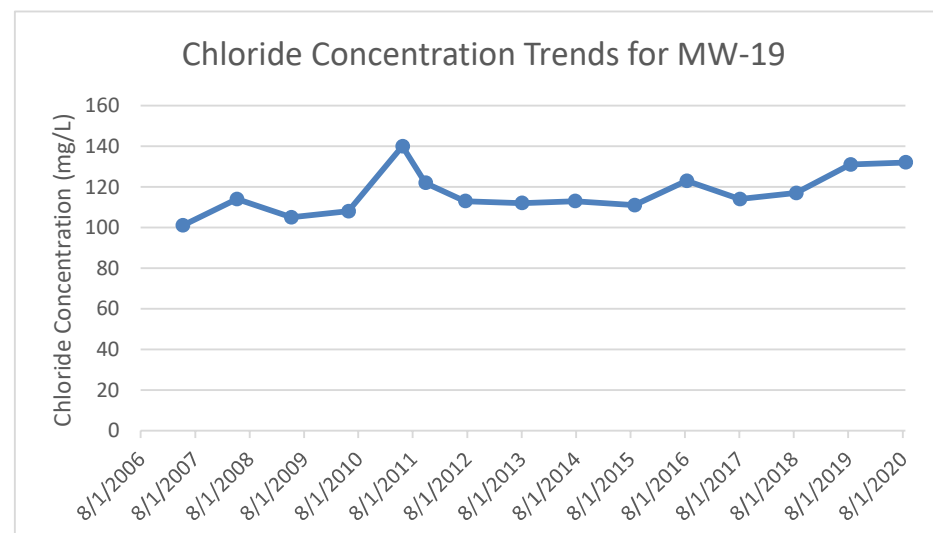
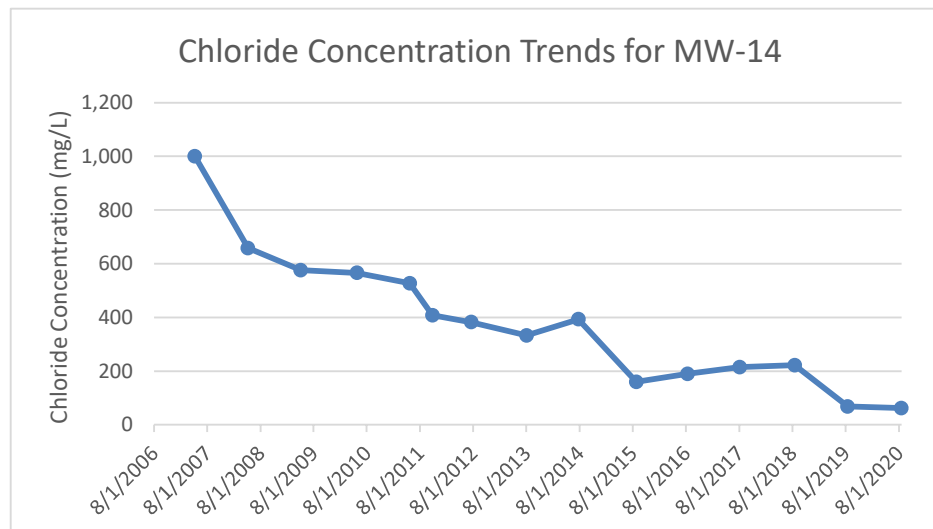
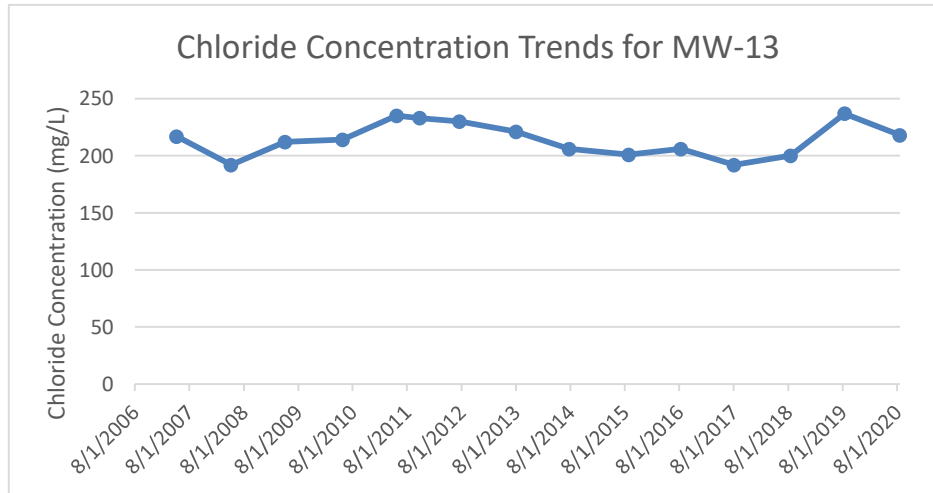


APPENDIX B

**Chloride Concentration Graphs
ConocoPhillips - Maljamar E&P
Lea County, New Mexico**



**Chloride Concentration Graphs
ConocoPhillips - Maljamar E&P
Lea County, New Mexico**



District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 22316

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 22316
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2020 Annual GW Monitoring and Remedial Activities Report: Content satisfactory 1. Continued groundwater monitoring and sampling of the on-site wells on an annual basis 2. Complete repair and/or replace to the pump in EW-2 3. Submit the Annual Monitoring Report to the OCD no later than March 31, 2022	12/29/2021