Facility: 149012
Document #: 2212050
Date: 149012

XTO ENERGY

Field Office: 21459 County Road 5 Rifle, Colorado 81650
Division Office: PO Box 6501 Englewood, Colorado 80155

March 15, 2016

Love Ranch Centralized E&P Waste Annual Report
Piceance Creek Facility
Facility ID: 149012

Mr. Alex Fischer
COGCC Environmental Supervisor – Western Colorado
1120 Lincoln Street, Suite 801
Denver, Colorado 80203

Dear Mr. Fischer,

Please find enclosed the Annual Report for the Love Ranch Centralized E&P Waste Facility #149012.

If you should have any concerns or questions regarding the contents related to this submittal please contact me directly at (970) 675-4122 or email at Jessica_Dooling@xtoenergy.com. Thanks again for your assistance.

Respectfully,

Jessica Dooling
Piceance EH&S Supervisor

CC: Stan Spencer
Kyle Littrell

Field Office: 21459 County Road 5 Rifle, Colorado 81650
Division Office: PO Box 6501 Englewood, Colorado 80155

Centralized E&P Waste Management Facility
Love Ranch Evaporation Pond
COGCC Facility No. 149012
Rio Blanco County, Colorado

Reporting Year: 2015

1. Introduction

Love Ranch Centralized E&P Waste site is located in Rio Blanco County, approximately 45 miles north/northwest of Rifle, Colorado. This site includes a salt water disposal (SWD) pond and its associated pumping and storage facilities. The purpose of the pond is to retain produced water from natural gas operations and production.

Location: SWNW Section 9, Township 2 South, Range 97 West
Latitude/Longitude: 39.892642 / -108.296246

2. 2015 Summary of Activities:

The facility was utilized for rotating storage of ~393,000 bbls of produced water from January 1, 2015 through December 31, 2015. Current produced water storage is ~257,458 bbls. During this period the reservoir was utilized for storage of excess produced water above and beyond the capacity of the Produced Water Distribution and Disposal System, which resulted in a total inflow of ~23,646 bbls, an outflow of ~63,024 bbls and ~63,024 bbls for recycled use in operational needs. Approximately 192,067 bbls were injected to disposal. (See Sec.6 below for actual volumes logged by operations)

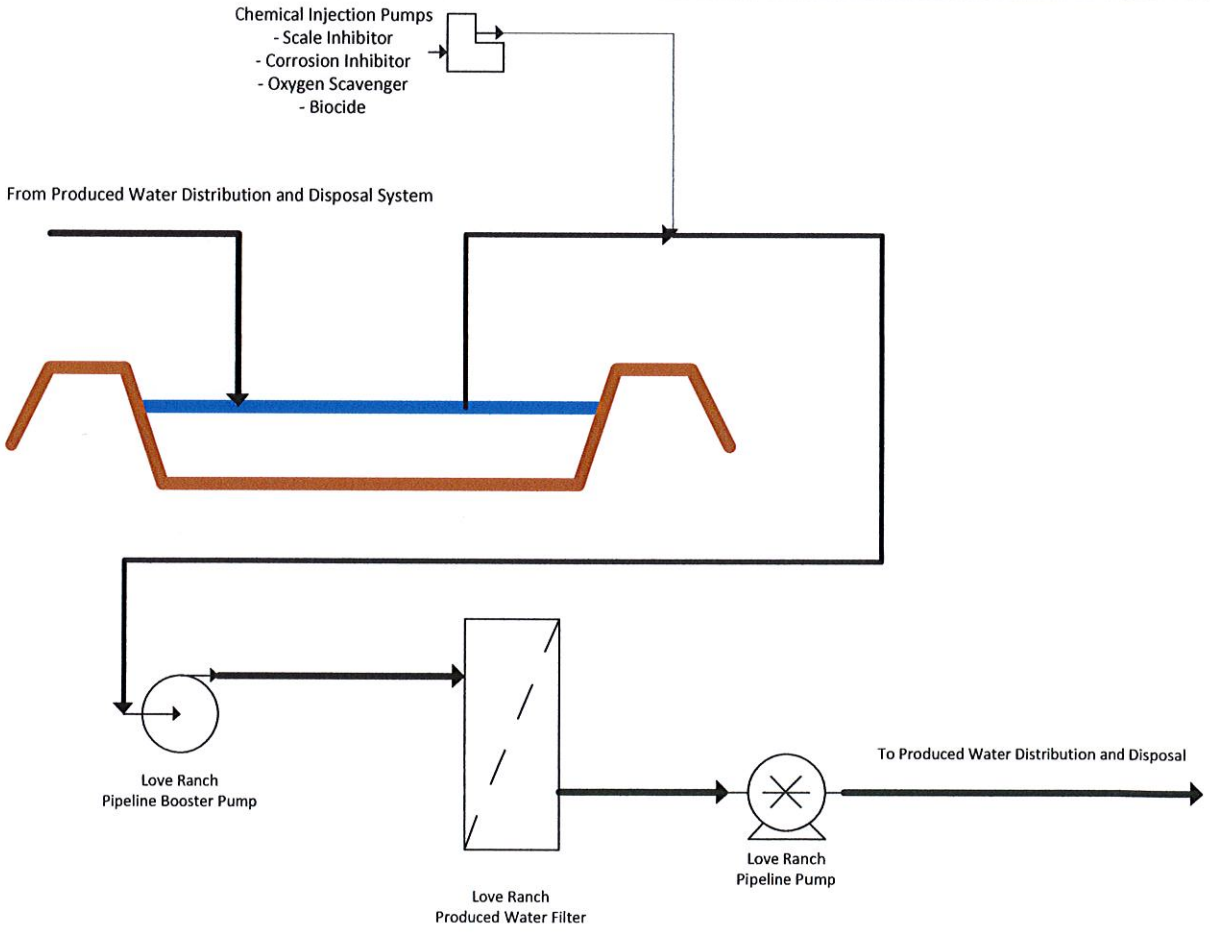
A produced water release occurred at the facility on November 21, 2015 (Form 19 DOC# 400941695). The incident involved ongoing maintenance to ensure there were no issues on the 4" combined liquids line between PCU 35-11 and Love 8 E&P pond by flowing back to the pond in an effort to identify operational issues from the PCU Secondary shut in. It was discovered that the hose running into the pond had rotated out of the pond releasing ~8.3 bbls of produced water onto the surface of the Pond

bank and down the access road bar ditch ~50 feet. The spill did not leave the location. All standing water was removed, remediation of impacts and Table 910-1 confirmation sampling were completed. COGCC Notice of Completion was issued for Form 19 DOC# 400967392 on January 11, 2016.

3. Facility Flow Process:

The purpose of the Love Ranch Centralized E&P Waste site is to store produced water in the event disposal/alternative usage is not available. A pipeline pump returns produced water from Love Ranch Pond back to the Produced Water Distribution and Disposal (PWDD) System. Water accumulates in the pond on demand for storage/surge or as a pressure relief for the PWDD system specifically when insufficient users (well drilling, completions and disposal injection wells) exist in comparison to production. Conversely, when users exceed production, produced water that has accumulated in the pond can be pumped back to the pipeline at a low rate, 2000 BBL/day, for use or disposal. All produced water pumped from Love Ranch pond is filtered and treated with oxygen scavenger, biocide, corrosion inhibitor, and scale inhibitor to protect the pipeline, downstream equipment and wells from corrosion and deposits. The Love Ranch Pond can store up to 393,000 BBL of produced water.

4. Facility Flow Schematic:



5. Monitoring Process:

Surface monuments are monitored annually. The testing frequency will change to every two years if there is no significant movement (>0.1' in lateral and >0.3' in vertical) detected in the first five years. The monument movement will be plotted and interpreted after every inspection. Due to the nature of the soil, the vertical displacement is anticipated to follow an asymptotic decline. Trained survey personnel will monitor the monuments using precise survey equipment.

Piezometers are monitored quarterly. If water levels are detected in the piezometers, samples will be taken to determine water quality.

Seepage through the dam will be collected in the toe drain system and piped to a manhole. Liquid levels in the manhole will be monitored monthly for normal operations. When the pond is more than 50% full by height, liquid levels in the manhole will be measured weekly. The seepage rate through the toe drain will be measured quarterly by capturing the liquid flowing into the manhole and measuring the volume vs. time.

The pond level readings of the pond shall be recorded at the time of all readings.

All dam instrumentation (including piezometers, drains, reservoir gage, and survey monuments) shall be monitored immediately following an earthquake where ground motions are felt in the area or the owner is informed of seismic activity in the vicinity. Results of the inspection reports and instrumentation readings should be immediately sent to the State Engineer.

All measurements and descriptive details that are required to monitor the performance of the dam will be recorded. The information will be grouped into the following three categories:

LOCATION — the location of any questionable area or condition will be accurately described to allow that area or condition to be evaluated. The location along the length of the dam, as well as height above the toe or distance down from the dam's crest, will be established and recorded.

EXTENT OF AREA—the length, width, and depth or height of any area where a suspected problem is found shall be recorded.

DESCRIPTIVE DETAIL—a brief yet detailed description of a condition or observation will be given.

Some description items are:

- Quantity of Toe Drain Intercept Outflow
- Quantity of Seepage from Point and Area Sources
- Length, Displacement, and Depth of Cracks
- Is Area Moist, Wet, or Saturated
- Is Protective Cover Adequate
- Is Surface Drainage Adequate
- Sloughing / Erosion of Slopes
- Settlement / Depression Location, Depth, Length, and Width
- Do Slopes appear too steep
- Does Deterioration appear to be rapid or slow
- Have Conditions Changed

Monitoring Process continued:

The above listing of inspection findings that must be recorded is not meant to be a complete list but is to serve as a guide. If an inspector thinks a condition has changed since the last inspection it will be documented and the State Engineer will be contacted. Photos will also be taken of the area, carefully noting the date and writing a description of the scene shown on the photo.

Dam Inspections will be conducted quarterly. It is the responsibility of those obtaining the data to know if readings are within normal historical and/or design operating parameters. Emergency conditions should be assumed if readings exceed normal historical and/or design operating parameters and immediate notification of the State Engineer is required.

6. Waste Tracking:

2015 Volumes

Location	Produced Water Inflow (bbl.)	Produced Water Outflow (bbl.)	
		Injected/Disposal	Recycled
Love Ranch Pond	23,646	192,067	63,024

7. Monitoring Reports:

- 2015 Annual Dam Report, State Engineers Office (Attachment A)

8. Sampling Reports:

Samples were collected for 2015 (See Table 1). The facility is currently being used for storage of ~257,458 bbls of produced water. Please see #2 above.

Table 1
Love Ranch Evaporation Pond Lab Summary

Last Update 3/7/2016

Analytical Parameter	E&P Facility	COGCC	E & P Facility		COGCC
(with units)	Solids	Soils Table 910-1 Concentration Levels	Produced Water Inlet	Produced Water Outlet	Ground Water Table 910-1 Concentration Levels
Accutest Job #	**D76118 (10/7/15)**	-	**D76117 (10/9/15)**		-
Sample type (Composite/Discrete)	C	-	D	D	-
TPH (GRO) (mg/Kg)	337	-	136000	1590	-
TPH (DRO) (mg/Kg)	21000	-	7310	8060	-
TPH (GRO + DRO) (mg/Kg)	21337	500	143310	9650	-
Benzene (mg/Kg)	6.20	0.170	14100	19.3	5
Toluene (mg/Kg)	40.9	85	21700	48.4	560 to 1000
Ethylbenzene (mg/Kg)	19.0	100	754	4.7	700
Xylenes (total) (mg/Kg)	381	175	12300	87	1400 to 10000
Acenaphthene (mg/Kg)	ND	1000	-	-	-
Anthracene (mg/Kg)	ND	1000	-	-	-
Benzo(A)anthracene (mg/Kg)	ND	0.22	-	-	-
Benzo(A)pyrene (mg/Kg)	ND	0.022	-	-	-
Benzo(B)fluoranthene (mg/Kg)	ND	0.22	-	-	-
Benzo(K)fluoranthene (mg/Kg)	ND	2.2	-	-	-
Chrysene (mg/Kg)	ND	22	-	-	-
Dibenzo(A,H)anthracene (mg/Kg)	ND	0.022	-	-	-
Fluoranthene (mg/Kg)	0.206	1000	-	-	-
Fluorene (mg/Kg)	ND	1000	-	-	-
Indeno(1,2,3,C,D)pyrene (mg/Kg)	ND	0.22	-	-	-
Naphthalene (mg/Kg)	5.180	23	-	-	-
Pyrene (mg/Kg)	0.233	1000	-	-	-
Electrical Conductivity (mmhos/cm)	5.270	4	-	-	-
Sodium Adsorption Ratio (SAR)	61.4	12	-	-	-
pH	8.41	6-9	-	-	-
Arsenic (mg/kg)	39.9	0.39	-	-	-
Barium (mg/kg)	2420	15000	-	-	-
Cadmium (mg/kg)	2.9	70	-	-	-
Chromium (III) (mg/Kg)	286	120000	-	-	-
Chromium (VI) (mg/Kg)	<1.0	23	-	-	-
Copper (mg/kg)	324	3100	-	-	-
Lead (inorganic) (mg/kg)	<72	400	-	-	-
Mercury (mg/kg)	7.2	23	-	-	-
Nickel (mg/kg)	203	1600	-	-	-
Selenium (mg/kg)	<72	390	-	-	-
Silver (mg/kg)	<86	390	-	-	-
Zinc (mg/kg)	94.8	23000	-	-	-
% Solids	66.2	-	N/A	N/A	-

Notes:

1) ND= not detectible to the laboratory detection limit.

2) "-" indicates no analysis or COGCC requirements

3) Results highlighted in yellow exceed Table 910-1 concentration levels.

ATTACHMENT A

March 8, 2016

State Engineer's Office – Division 6
PO Box 773450
Steamboat Springs, CO 80487

Attention: Dana Miller – Dam Safety Engineer

Subject: 2015 Annual Monitoring Report
Love Ranch Evaporation Pond Dam
Construction File Number: C-1881
Water Division 6, DAMID: 430220

Reference: Instrumentation and Monitoring Plan; Love Ranch Evaporation Pond
ExxonMobil Production – U.S. Production
Dated: July 15, 2005
Piceance Tight Gas Initial Development Project
Rio Blanco County, Colorado

Dear Ms. Miller,

On behalf of XTO Energy, a fully owned subsidiary of ExxonMobil, please find attached the 2015 Annual Monitoring Report for the subject site. This report includes the required monthly and quarterly Instrumentation Records. The February 2016 report serves as the 2015 Annual Report with the monthly and quarterly reports starting with January 2015 thru December 2015. The completion of these reports was in compliance with the referenced Instrumentation and Monitoring Plan.

If you have any questions regarding these reports or the overall status of the subject dam, please do not hesitate to contact me.

Regards,

Jessica Dooling

Piceance EH&S Supervisor
Office: 970-675-4122
Cell: 970-2769-6048

Attachment: 2015 Annual Monitoring Report

Souder, Miller & Associates ♦ 8000 W. 14th Avenue ♦ Lakewood, CO 80214
(303) 239-9011 ♦ fax (303) 239-0745

February 1, 2016

XTO Energy PCU Operations
21459 County Road 5
Rifle, CO 81650

Attention: Jessica Dooling

Subject: Love Ranch Evaporation Pond (SWD Pond)
2015 Annual Report
Dam ID: C-1881
Piceance Development Project
SMA/KRW Project Number: 0606-09

Dear Ms. Dooling,

The following is a summary of the observations made during this year's survey and monitoring events:

Settlement Monument Survey

1. The settlement monuments were surveyed on October 13, 2015 using a Leica Series 1200 Differential GPS unit. Please see attached Figure 1 for a summary of settlement monitoring data to date, and to Attachment 1 for the location of the settlement monuments.

2. The lateral and vertical movements reported represent the total movement of the monuments since the embankment was completed and monitoring began in July 2005. No significant changes were observed in these monuments between this survey and previously conducted survey on October 21, 2014.

3. In general, measurements continue to indicate a slight horizontal and vertical shift of monuments along the northern and eastern embankments. A horizontal shift in an easterly/northeasterly direction is noted in monuments SMK-5 (Sta. 11+50); SMK-6 (Sta. 12+00); SMK-7 (Sta. 13+00); and SMK-8 (Sta. 14+00). A horizontal shift in an easterly/southeasterly direction is noted in monuments SMK-1 (Sta. 8+00) and SMK-9 (Sta. 15+00). No significant movements (> 0.04 feet (0.48 inches)) were measured in monuments SMK-2 (Sta. 9+00); SMK-3 (Sta. 10+00); SMK-4 (Sta. 10+50); SMK-10 (Sta. 16+00) and SMK-11 (Sta. 17+50).

4. In monuments located on the east side of the pond (SMK-1 thru SMK-8) in areas of the deepest embankment fill, the total measured shift ranges between -0.01 feet in SMK-1 to +0.10 feet in SMK-7 (a maximum of 1.2 inches) in Northing (movement towards the north); and ranges between 0.02 feet in SMK-3 to 0.21 feet in SMK-8 (a maximum of 2.52 inches) in Easting (movement towards the east). The vertical change in these same monuments ranged from a slight rise in SMK-1 and SMK-2 of 0.05 feet (0.6 inches) to a maximum settlement in SMK-8 of 0.22 feet (2.64 inches).

5. In monuments located on the north side of the pond (SMK-9 thru SMK-11) the total measured shift ranges between -0.10 feet in SMK-9 to +0.03 feet in SMK-10 (a maximum of 1.2 inches) in Northing; and ranges between 0.02 feet in SMK-10 to 0.37 feet in SMK-9 (a maximum of 4.44 inches) in Easting. The vertical change in these same monuments ranged from 0.00 feet in SMK-10 to +0.33 feet in SMK-9 (a maximum of 3.96 inches).

6. The only monument with horizontal and vertical movements in excess of 0.30 feet is monument SMK-9, located in the northeast corner of the embankment. Monument SMK-9 has a total horizontal movement to date of 0.10 feet (1.2 inches) to the south and 0.37 feet (4.4 inches) to the east. Total vertical movement to date in SMK-9 is a rise of 0.33 feet (approx. 4 inches). This monument was disturbed between the initial construction survey (7/25/05) and the first monitoring survey (8/31/05). There has been no significant lateral or vertical movement in this monument in subsequent surveys.

Piezometer Monitoring

1. Current monitoring in the piezometers indicates a trace (<0.03 ft) of water in the bottom of the 1-inch PVC in PZ-4, PZ-5, PZ-6 and PZ-9. Piezometers PZ-1; PZ-2; PZ-3; PZ-7 and PZ-8 showed no presence of water. The only measurable amount of water was found in PZ-10, located along the cut slope southwest of the pond, with 0.06 feet (< 1.0 inches). During the 2015 monitoring events of the piezometers, only PZ-10 had any measurable water ranging between 0.06 feet and 0.07 feet (<1.0 inches). See the attached Figures 2 and 3 for the Piezometer Inspection Report Form and to Attachment 1 for the location of these piezometers.

2. It is our suspect that the water encountered during the 2015 monitoring events in the site piezometers is attributable to either condensate and/or stormwater infiltration, and not from releases from the pond.

3. We will continue to monitor the piezometers on a quarterly basis. Any measurable changes in the piezometer water levels will be noted. If significant water (> 2 inches) is encountered in any piezometer, samples will be collected to determine water quality per the instrumentation and monitoring plan for the site.

Seepage Detection/Toe Drain Monitoring

1. Per the Instrumentation and Monitoring Plan for the site, seepage detection and toe drain monitoring have been performed on a weekly basis during 2015 due to the pond being greater than 50% full by height.

2. The Toe Drain along the east side of the Evaporation Pond continues to have some minor silt/ gravel and approximately 0.25 feet (3 inches) of clean water in the bottom of the monitoring manhole.

3. The water present in the bottom of the monitoring manhole is most likely the result of surface runoff and/or groundwater.

4. There has been no observable water flowing from the pipes entering the manhole during any of the 2015 weekly monitoring events.

5. No pond seepage has been detected below the dam during the 2015 weekly monitoring events.

Staff Gage Monitoring

1. The pond level during the December inspection indicated approximately 12 feet of water (elevation = 6160 feet).

2. Water levels in the pond during 2015 ranged from 12 feet (elevation = 6160 feet) to 14 ft. (elevation = 6162 feet).

3. The maximum gage height for the pond is 17 feet. The pond was half full or more by height for all of 2015.

Miscellaneous

1. Rodent holes and some minor rills have been addressed during 2015.

2. No significant erosion rills were noted during the most recent inspections. Rills as well as rodent holes that develop will be scheduled for repair on an ongoing basis – typically in the spring and fall of each year.

3. Refer to the subject Dam Inspection Reports (Figures 3 and 4) for additional information.

If you have any questions regarding this annual report please contact either Joe Hess or Nate Grove at
(303) 239-9011.

Warm Regards,

Joe Hess, P.E.
Regional Manager/Senior Engineer
Souder Miller & Associates

Cc: Nate Grove

Figures and Attachments:

Figure 1 Settlement Monument Inspection Report Form (SMK 1 thru 5)
Figure 1A Settlement Monument Inspection Report Form (SMK 6 thru 11)
Figure 2 Piezometer Inspection Report Form (PZ-1 thru PZ-5)
Figure 2A Piezometer Inspection Report Form (PZ-6 thru PZ-10)
Attachment 1 – ExxonMobil Site Map with Piezometer and Settlement Monument Locations
Attachment 2 – Quarterly Dam Inspection Reports (March, June, September, and December 2015)

Reservoir Name: Love Ranch Evaporation Pond
Company: ExxonMobil Corp.
Water Division: 5 **Water District:** 43
Dam I.D. C-1881

Date	Observer	Reservoir Level		SMK 1 (8+00)			SMK 2 (9+00)			SMK 3 (10+00)			SMK 4 (10+50)			SMK 5 (11+50)		
		Gage Height ft	Elevation ft	N	E	Elev ft	N	E	Elev ft	N	E	Elev ft	N	E	Elev ft	N	E	Elev ft
7/25/2005	KRW	0	6148.0	214802.54	1216202.69	6169.53	214876.25	1216269.79	6169.11	214951.56	1216335.72	6169.22	214988.75	1216369.43	6169.25	215063.91	1216437.92	6171.16
Initial Reading																		
8/31/2005	KRW	4.0	6152.0	214802.57	1216202.70	6169.53	214876.30	1216269.81	6169.11	214951.59	1216335.71	6169.22	214988.79	1216369.45	6169.25	215063.94	1216437.95	6171.16
Delta (Initial - Current)				(0.03)	(0.01)	0.00	(0.05)	(0.02)	(0.00)	(0.03)	0.01	0.00	(0.04)	(0.02)	(0.00)	(0.03)	(0.03)	0.00
10/13/2005	KRW	8.5	6156.5	214802.56	1216202.69	6169.52	214876.25	1216269.79	6169.09	214951.56	1216335.73	6169.19	214988.75	1216369.43	6169.22	215063.91	1216437.92	6171.13
Delta (Initial - Current)				(0.02)	0.00	0.01	0.00	0.00	0.02	0.00	(0.01)	0.03	0.00	0.00	0.03	0.00	0.00	0.03
10/20/2005	KRW	9.5	6157.5	214802.57	1216202.70	6169.53	214876.30	1216269.81	6169.11	214951.59	1216335.71	6169.22	214988.79	1216369.45	6169.25	215063.94	1216437.95	6171.16
Delta (Initial - Current)				(0.03)	(0.01)	0.00	(0.05)	(0.02)	(0.00)	(0.03)	0.01	0.00	(0.04)	(0.02)	(0.00)	(0.03)	(0.03)	0.00
10/28/2005	KRW	10.5	6158.5	214802.54	1216202.73	6169.55	214876.25	1216269.82	6169.12	214951.57	1216335.72	6169.23	214988.74	1216369.43	6169.26	215063.90	1216437.93	6171.17
Delta (Initial - Current)				0.00	(0.04)	(0.02)	0.00	(0.03)	(0.01)	(0.01)	0.00	(0.01)	0.01	0.00	(0.01)	0.01	(0.01)	(0.01)
11/4/2005	KRW	11.0	6159.0	214802.55	1216202.72	6169.54	214876.25	1216269.82	6169.10	214951.56	1216335.72	6169.22	214988.75	1216369.43	6169.25	215063.91	1216437.92	6171.17
Delta (Initial - Current)				(0.01)	(0.03)	(0.01)	0.00	(0.03)	0.01	0.00	0.00	0.00	0.00	0.00	(0.00)	0.00	0.00	(0.01)
11/9/2005	KRW	11.0	6159.0	214802.52	1216202.71	6169.54	214876.23	1216269.80	6169.11	214951.53	1216335.71	6169.23	214988.72	1216369.42	6169.26	215063.88	1216437.92	6171.16
Delta (Initial - Current)				0.02	(0.02)	(0.01)	0.02	(0.01)	(0.00)	0.03	0.01	(0.01)	0.03	0.01	(0.01)	0.03	0.00	0.00
7/26/2006	KRW	9	6157.0	214802.52	1216202.70	6169.53	214876.22	1216269.83	6169.11	214951.53	1216335.73	6169.22	214988.77	1216369.46	6169.25	215063.94	1216437.95	6171.16
Delta (Initial - Current)				0.02	(0.01)	0.00	0.03	(0.04)	(0.00)	0.03	(0.01)	0.00	(0.02)	(0.03)	(0.00)	(0.03)	(0.03)	0.00
12/8/2006	KRW	1.0	6149.0	214802.57	1216202.67	6169.52	214876.27	1216269.84	6169.10	214951.59	1216335.73	6169.21	214988.81	1216369.45	6169.25	215063.98	1216438.00	6171.15
Delta (Initial - Current)				(0.03)	0.02	0.01	(0.02)	(0.05)	0.01	(0.03)	(0.01)	0.01	(0.06)	(0.02)	(0.00)	(0.07)	(0.08)	0.01
12/18/2007	KRW	0	6148.0	214802.55	1216202.80	6169.56	214876.26	1216269.88	6169.14	214951.59	1216335.80	6169.24	214988.75	1216369.48	6169.26	215063.94	1216438.00	6171.17
Delta (Initial - Current)				(0.01)	(0.10)	(0.02)	(0.01)	(0.09)	(0.03)	(0.03)	(0.08)	(0.02)	0.01	(0.05)	(0.01)	(0.03)	(0.08)	(0.01)
12/9/2008	KRW	0.5	6148.50	214802.51	1216202.76	6169.53	214876.24	1216269.84	6169.09	214951.55	1216335.77	6169.23	214988.73	1216369.50	6169.26	215063.92	1216438.01	6171.15
Delta (Initial - Current)				0.03	(0.07)	0.00	0.01	(0.05)	0.02	0.01	(0.05)	(0.01)	0.02	(0.07)	(0.01)	(0.01)	(0.09)	0.01
12/29/2009	KRW	13	6161.0	214802.52	1216202.88	6169.56	214876.26	1216269.95	6169.14	214951.58	1216335.84	6169.26	214988.79	1216369.56	6169.27	215063.96	1216438.06	6171.18
Delta (Initial - Current)				0.02	(0.19)	(0.03)	(0.01)	(0.16)	(0.03)	(0.02)	(0.12)	(0.04)	(0.04)	(0.13)	(0.02)	(0.05)	(0.14)	(0.02)
11/18/2010	KRW	-	-	214802.57	1216202.94	6169.55	214876.30	1216269.96	6169.13	214951.66	1216335.85	6169.23	214988.80	1216369.63	6169.27	215063.98	1216438.09	6171.19
Delta (Initial - Current)				(0.03)	(0.25)	(0.02)	(0.05)	(0.17)	(0.02)	(0.10)	(0.13)	(0.01)	(0.05)	(0.20)	(0.02)	(0.07)	(0.17)	(0.03)
12/9/2011	KRW	5	6153.0	214802.50	1216203.00	6169.56	214876.27	1216270.06	6169.14	214951.62	1216335.94	6169.23	214988.83	1216369.64	6169.27	215064.01	1216438.13	6171.19
Delta (Initial - Current)				0.04	(0.31)	(0.03)	(0.02)	(0.27)	(0.03)	(0.06)	(0.22)	(0.01)	(0.08)	(0.21)	(0.02)	(0.10)	(0.21)	(0.03)
12/5/2012	KRW	4	6152	214802.53	1216202.99	6169.56	214876.29	1216270.05	6169.12	214951.63	1216335.93	6169.22	214988.84	1216369.63	6169.26	215064.02	1216438.12	6171.16
Delta (Initial - Current)				0.01	(0.30)	(0.02)	(0.04)	(0.25)	(0.02)	(0.07)	(0.21)	0.00	(0.09)	(0.20)	(0.01)	(0.11)	(0.20)	0.00
10/17/2013	KRW/CAL	9	6157	214802.52	1216203.06	6169.56	214876.29	1216270.09	6169.12	214951.63	1216335.97	6169.22	214988.83	1216369.67	6169.26	215064.02	1216438.15	6171.16
Delta (Initial - Current)				0.02	(0.37)	(0.02)	(0.04)	(0.30)	(0.02)	(0.07)	(0.25)	0.00	(0.08)	(0.24)	(0.01)	(0.11)	(0.23)	(0.00)
10/21/2014	KRW/CAL	13	6161	214802.55	1216203.12	6169.58	214876.29	1216270.15	6169.13	214951.64	1216336.03	6169.26	214988.84	1216369.73	6169.30	215064.08	1216438.18	6171.17
Delta (Initial - Current)				(0.01)	(0.43)	(0.05)	(0.04)	(0.36)	(0.02)	(0.08)	(0.31)	(0.04)	(0.09)	(0.30)	(0.05)	(0.17)	(0.26)	(0.00)
10/13/2015	SMA/CAL	14	6162	214802.53	1216202.75	6169.58	214876.26	1216269.83	6169.15	214951.57	1216335.74	6169.24	214988.76	1216369.47	6169.28	215063.92	1216437.99	6171.19
Delta (Initial - Current)				0.01	(0.06)	(0.05)	(0.01)	(0.04)	(0.05)	(0.01)	(0.02)	(0.02)	(0.01)	(0.04)	(0.04)	(0.01)	(0.07)	(0.02)

Figure 1
Settlement Data (SMK 1 thru 5)

Reservoir Name: Love Ranch Evaporation Pond
Company: ExxonMobil Corp.
Water Division: 6 **Water District:** 43
Dam I.D. C-1881

Date	Observer	Reservoir Level		SMK 6 (12+00)			SMK 7 (13+00)			SMK 8 (14+00)			SMK 9 (15+00)			SMK 10 (16+00)			SMK 11 (17+00)		
		Gage Height ft	Elevation ft	N	E	Elev ft	N	E	Elev	N	E	Elev ft	N	E	Elev	N	E	Elev ft	N	E	Elev ft
7/25/2005	KRW	0	6148.0	215125.63	1216440.82	6172.56	215225.84	1216441.92	6172.30	215324.09	1216435.50	6172.31	215420.90	1216411.51	6172.26	215425.90	1216310.04	6172.01	215434.08	1216161.89	6170.16
Initial Reading																					
8/31/2005	KRW	4.0	6152.0	215125.65	1216440.86	6172.56	215225.87	1216441.95	6172.27	215324.16	1216435.53	6172.28	215420.79	1216411.63	6172.72	215425.98	1216310.00	6172.02	215434.08	1216161.87	6170.16
Delta (Initial - Current)				(0.02)	(0.04)	0.00	(0.03)	(0.03)	0.03	(0.07)	(0.03)	0.03	0.11	(0.12)	(0.46)	(0.08)	0.04	(0.01)	0.00	0.02	0.00
10/13/2005	KRW	8.5	6156.5	215125.66	1216440.85	6172.54	215225.86	1216441.93	6172.24	215324.10	1216435.53	6172.23	215420.69	1216411.68	6172.67	215425.92	1216310.00	6171.99	215434.07	1216161.88	6170.15
Delta (Initial - Current)				(0.03)	(0.03)	0.02	(0.02)	(0.01)	0.06	(0.01)	(0.03)	0.08	0.21	(0.17)	(0.41)	(0.02)	0.04	0.02	0.01	0.01	0.01
10/20/2005	KRW	9.5	6157.5	215125.65	1216440.86	6172.56	215225.87	1216441.95	6172.27	215324.16	1216435.53	6172.28	215420.79	1216411.63	6172.72	215425.98	1216310.00	6172.02	215434.08	1216161.87	6170.16
Delta (Initial - Current)				(0.02)	(0.04)	0.00	(0.03)	(0.03)	0.03	(0.07)	(0.03)	0.03	0.11	(0.12)	(0.46)	(0.08)	0.04	(0.01)	0.00	0.02	0.00
10/28/2005	KRW	10.5	6158.5	215125.64	1216440.84	6172.56	215225.86	1216441.96	6172.27	215324.10	1216435.54	6172.26	215420.71	1216411.69	6172.72	215425.92	1216310.02	6172.03	N/A	N/A	N/A
Delta (Initial - Current)				(0.01)	(0.02)	0.00	(0.02)	(0.04)	0.03	(0.01)	(0.04)	0.05	0.19	(0.18)	(0.46)	(0.02)	0.02	(0.02)			
11/4/2005	KRW	11.0	6159.0	215125.66	1216440.82	6172.56	215225.88	1216441.95	6172.26	215324.12	1216435.53	6172.25	215420.71	1216411.67	6172.71	215425.94	1216309.99	6172.02	N/A	N/A	N/A
Delta (Initial - Current)				(0.03)	0.00	0.00	(0.04)	(0.03)	0.04	(0.03)	(0.03)	0.06	0.19	(0.16)	(0.45)	(0.04)	0.05	(0.01)			
11/9/2005	KRW	11.0	6159.0	215125.64	1216440.84	6172.57	215225.84	1216441.96	6172.27	215324.09	1216435.55	6172.27	215420.72	1216411.71	6172.72	215425.93	1216310.01	6172.02	N/A	N/A	N/A
Delta (Initial - Current)				(0.01)	(0.02)	(0.01)	0.00	(0.04)	0.03	0.00	(0.05)	0.04	0.18	(0.20)	(0.46)	(0.03)	0.03	(0.01)			
7/26/2006	KRW	9	6157.0	215125.67	1216440.84	6172.56	215225.87	1216441.96	6172.27	215324.14	1216435.59	6172.28	215420.77	1216411.71	6172.64	215425.93	1216310.00	6172.04	N/A	N/A	N/A
Delta (Initial - Current)				(0.04)	(0.02)	0.00	(0.03)	(0.04)	0.03	(0.05)	(0.09)	0.03	0.13	(0.20)	(0.38)	(0.03)	0.04	(0.03)			
12/8/2006	KRW	1.0	6149.0	215125.69	1216440.85	6172.54	215225.87	1216441.93	6172.21	215324.21	1216435.63	6172.19	215420.77	1216411.72	6172.64	215425.95	1216309.98	6172.02	N/A	N/A	N/A
Delta (Initial - Current)				(0.06)	(0.03)	0.02	(0.03)	(0.01)	0.09	(0.12)	(0.13)	0.12	0.13	(0.21)	(0.38)	(0.05)	0.06	(0.01)			
12/18/2007	KRW	0	6148.0	215125.68	1216440.88	6172.55	215225.93	1216442.01	6172.22	215324.16	1216435.65	6172.18	215420.80	1216411.77	6172.63	215425.95	1216310.00	6172.02	215434.07	1216161.88	6170.18
Delta (Initial - Current)				(0.05)	(0.06)	0.01	(0.09)	(0.09)	0.08	(0.07)	(0.15)	0.13	0.10	(0.26)	(0.38)	(0.05)	0.04	(0.01)	0.01	0.01	(0.02)
12/9/2008	KRW	0.5	6148.50	215125.72	1216440.91	6172.55	215225.93	1216442.04	6172.19	215324.17	1216435.68	6172.12	215420.80	1216411.81	6172.60	215425.93	1216310.03	6172.01	215434.07	1216161.88	6170.18
Delta (Initial - Current)				(0.09)	(0.09)	0.01	(0.09)	(0.12)	0.11	(0.08)	(0.18)	0.19	0.10	(0.30)	(0.34)	(0.03)	0.01	0.00	0.01	0.01	(0.02)
12/29/2009	KRW	13	6161.0	215125.72	1216440.94	6172.57	215225.97	1216442.08	6172.19	215324.20	1216435.70	6172.13	215420.84	1216411.82	6172.60	215425.94	1216310.03	6172.02	215434.07	1216161.88	6170.18
Delta (Initial - Current)				(0.08)	(0.12)	(0.01)	(0.13)	(0.16)	0.11	(0.11)	(0.20)	0.18	0.06	(0.31)	(0.34)	(0.04)	0.01	(0.01)	0.01	0.01	(0.02)
11/18/2010	KRW	-	-	215125.75	1216441.00	6172.56	215226.00	1216442.10	6172.19	215324.24	1216435.71	6172.11	215420.87	1216411.83	6172.59	215425.96	1216310.04	6172.00	215434.07	1216161.88	6170.18
Delta (Initial - Current)				(0.12)	(0.16)	0.00	(0.16)	(0.18)	0.11	(0.15)	(0.21)	0.20	0.03	(0.32)	(0.33)	(0.06)	0.00	0.01	0.01	0.01	(0.02)
12/9/2011	KRW	5	6153.0	215125.76	1216440.99	6172.56	215226.01	1216442.11	6172.19	215324.25	1216435.73	6172.12	215420.89	1216411.83	6172.60	215425.97	1216310.04	6172.00	215434.07	1216161.88	6170.18
Delta (Initial - Current)				(0.13)	(0.17)	0.00	(0.17)	(0.19)	0.11	(0.16)	(0.23)	0.19	0.01	(0.32)	(0.34)	(0.07)	0.00	0.01	0.01	0.01	(0.02)
12/5/2012	KRW	4	6152	215125.78	1216440.98	6172.56	215226.03	1216442.10	6172.17	215324.25	1216435.71	6172.10	215420.87	1216411.83	6172.57	215425.96	1216310.03	6171.99	215434.07	1216161.88	6170.18
Delta (Initial - Current)				(0.15)	(0.16)	0.01	(0.19)	(0.18)	0.13	(0.15)	(0.21)	0.22	0.03	(0.32)	(0.32)	(0.06)	0.01	0.03	0.01	0.01	(0.02)
10/17/2013	KRW/CAL	9	6157	215125.79	1216441.02	6172.55	215226.04	1216442.13	6172.17	215324.25	1216435.74	6172.10	215420.89	1216411.87	6172.58	215425.95	1216310.05	6171.99	215434.07	1216161.88	6170.18
Delta (Initial - Current)				(0.16)	(0.20)	0.01	(0.20)	(0.21)	0.13	(0.16)	(0.24)	0.21	0.01	(0.36)	(0.32)	(0.05)	(0.01)	0.02	0.01	0.01	(0.02)
10/21/2014	KRW/CAL	13	6161	215125.86	1216441.06	6172.58	215226.09	1216442.18	6172.19	215324.30	1216435.77	6172.12	215420.94	1216411.86	6172.59	215426.01	1216310.04	6171.99	215434.07	1216161.88	6170.18
Delta (Initial - Current)				(0.23)	(0.24)	(0.02)	(0.25)	(0.26)	0.11	(0.21)	(0.27)	0.19	(0.04)	(0.35)	(0.33)	(0.11)	(0.00)	0.02	0.01	0.01	(0.02)
10/13/2015	SMA/CAL	14	6162	215125.68	1216440.89	6172.58	215225.94	1216442.05	6172.18	215324.15	1216435.71	6172.10	215420.80	1216411.88	6172.59	215425.93	1216310.06	6172.01	215434.0943	1216161.917	6170.22
Delta (Initial - Current)				(0.05)	(0.07)	(0.01)	(0.10)	(0.13)	0.11	(0.06)	(0.21)	0.22	0.10	(0.37)	(0.33)	(0.03)	(0.02)	(0.00)	(0.01)	(0.03)	(0.06)

Figure 1A
Settlement Data (SMK 6 thru 11)

Figure 2
Piezometer Inspection Report
(PZ-1 thru PZ-5)

Reservoir Name:	Love Ranch Evaporation Pond
Company:	XTO Energy PCU Operations
Water Division:	6
Water District:	43
Dam I.D.	C-1881

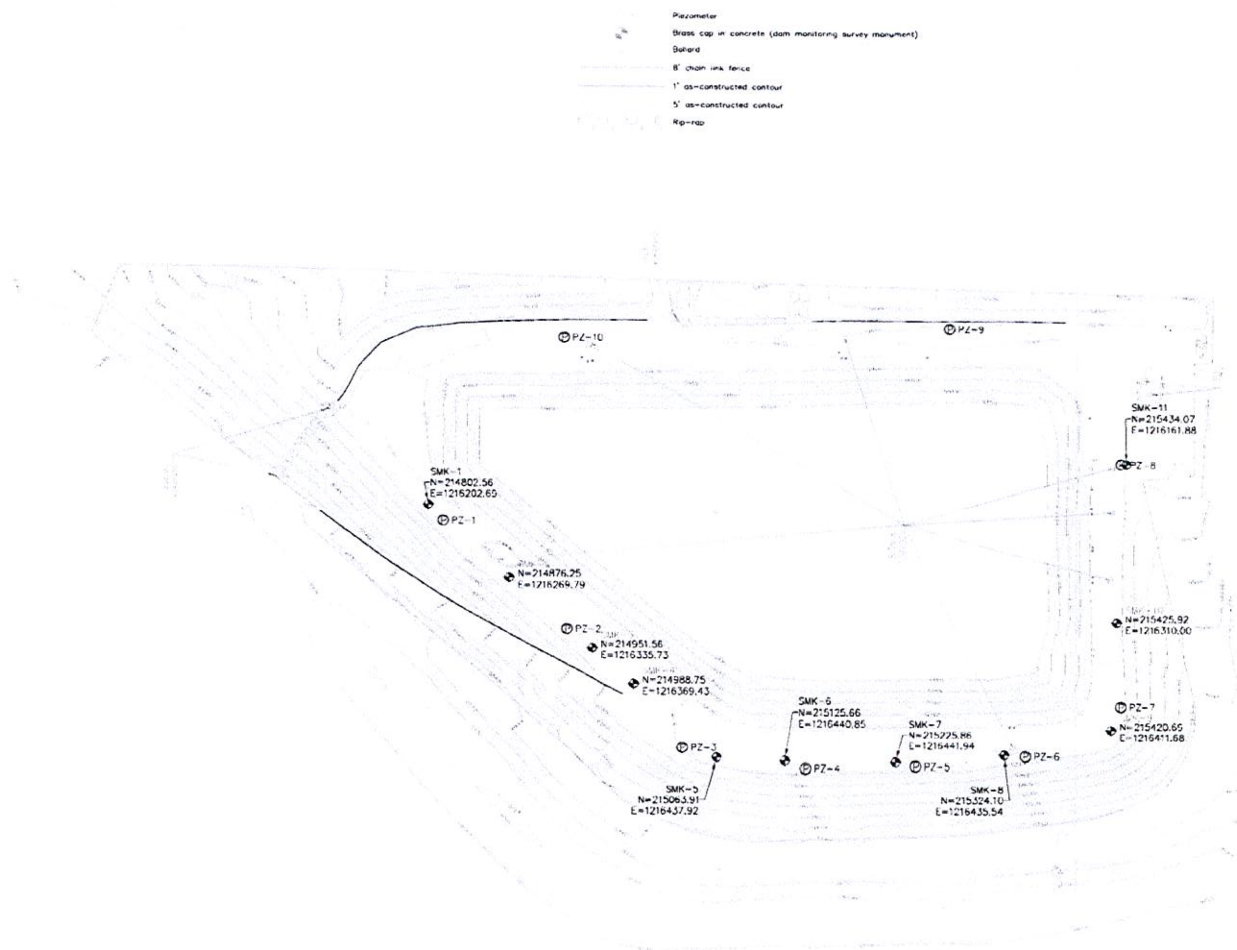
Date	Observer	Reservoir Level		Outlet	Piezometer No. 1 / Northing / Easting / El. Top of Casing / Total Depth	PZ-1: 214816.00 / 1216217.51 / 6172.54 / 28.00	Piezometer No. 2 / Northing / Easting / El. Top of Casing / Total Depth	PZ-2: 214928.50 / 1216371.65 / 6172.08 / 28.00	Piezometer No. 3 / Northing / Easting / El. Top of Casing / Total Depth	PZ-3: 215032.79 / 1216429.12 / 6173.50 / 32.00	Piezometer No. 4 / Northing / Easting / El. Top of Casing / Total Depth	PZ-4: 215144.47 / 1216447.45 / 6175.19 / 36.10	Piezometer No. 5 / Northing / Easting / El. Top of Casing / Total Depth	PZ-5: 215243.96 / 1215445.55 / 6175.19 / 41.20
		Gage Height	Elevation (Ft)	Discharge (gpm)	Depth to Water (Ft)	Water Elevation (ft)	Depth to Water (Ft)	Water Elevation (ft)	Depth to Water (Ft)	Water Elevation (ft)	Depth to Water (Ft)	Water Elevation (ft)	Depth to Water (Ft)	Water Elevation (ft)
1/24/2014	KRW	8	6156	0	TD=28.00/WD=0	0	TD=27.07/WD=0	0	TD=32.09/WD=0	trace	TD=36.17/WD=36.16	0.01	TD=41.25/WD=41.22	0.03
2/25/2014	KRW	9	6157	0	TD=28.00/WD=0	0	TD=27.07/WD=0	0	TD=32.09/WD=0	trace	TD=36.17/WD=36.16	0.01	TD=41.25/WD=41.23	0.02
3/25/2014	KRW	8	6156	0	TD=28.00/WD=0	0	TD=27.07/WD=0	0	TD=32.09/WD=0	trace	TD=36.17/WD=36.17	trace	TD=41.25/WD=41.22	0.03
4/24/2014	KRW	9	6157	0	TD=28.00/WD=0	0	TD=27.07/WD=0	0	TD=32.09/WD=0	trace	TD=36.17/WD=36.17	trace	TD=41.25/WD=41.23	0.02
PER STATE APPROVAL AND CURRENT INSTRUMENTATION AND MONITORING PLAN - RESUMED QUARTERLY MONITORING OF PIEZOMETERS (March, June, September, December) FOLLOWING APRIL MONITORING EVENT														
6/26/2014	KRW	13	6161	0	TD=28.00/WD=0	0	TD=27.07/WD=0	0	TD=32.09/WD=0	0	TD=36.17/WD=36.17	trace	TD=41.25/WD=41.22	0.03
9/29/2014	KRW	12	6160	0	TD=28.00/WD=0	0	TD=27.07/WD=0	0	TD=32.09/WD=0	trace	TD=36.17/WD=36.17	trace	TD=41.25/WD=41.23	0.02
1/20/2015	KRW	13	6161	0	TD=28.00/WD=0	0	TD=27.07/WD=0	0	TD=32.09/WD=0	0	TD=36.17/WD=36.17	trace	TD=41.25/WD=41.23	0.02
3/6/2015	KRW	13	6161	0	TD=28.00/WD=0	0	TD=27.07/WD=0	0	TD=32.09/WD=0	0	TD=36.17/WD=36.17	trace	TD=41.25/WD=41.23	0.02
6/4/2015	KRW	14	6162	0	TD=28.00/WD=0	0	TD=27.07/WD=0	0	TD=32.09/WD=0	0	TD=36.17/WD=36.17	trace	TD=41.25/WD=41.22	0.03
9/9/2015	KRW	14	6162	0	TD=28.00/WD=0	0	TD=27.07/WD=0	0	TD=32.09/WD=0	0	TD=36.17/WD=36.17	trace	TD=41.25/WD=41.23	0.02
12/4/2015	SMA	12	6160	0	TD=28.00/WD=0	0	TD=27.07/WD=0	0	TD=32.09/WD=0	0	TD=36.17/WD=36.17	trace	TD=41.25/WD=41.23	0.02

1. TD = Observed Total Depth by well sounder.
2. WD= Observed Water Depth by well sounder.
3. Most Recent Quarterly Monitoring - highlighted in yellow.

Figure 2A
Piezometer Inspection Report
(PZ-6 thru PZ-10)

Reservoir Name:		Love Ranch Evaporation Pond									
Company:		XTO Energy PCU Operations									
Water Division:		6		**Water District:**		43					
Dam I.D.		C-1881									
Date	**Observer**	**Piezometer No. 6** **Northing** **Easting** **El. Top of Casing** **Total Depth**	**PZ-6** 215343.18 1216436.76 6174.98 41.10	**Piezometer No. 7** **Northing** **Easting** **El. Top of Casing** **Total Depth**	**PZ-7** 215429.40 1216389.97 6174.68 35.40	**Piezometer No. 8** **Northing** **Easting** **El. Top of Casing** **Total Depth**	**PZ-8** 215429.50 1216162.11 6172.85 33.50	**Piezometer No. 9** **Northing** **Easting** **El. Top of Casing** **Total Depth**	**PZ-9** 215274.33 1216037.11 6173.21 34.00	**Piezometer No. 10** **Northing** **Easting** **El. Top of Casing** **Total Depth**	**PZ-10** 214925.38 1216046.45 6173.01 29.30
		Depth to Water (Ft)	**Water Elevation (ft)**	**Depth to Water (Ft)**	**Water Elevation (ft)**	**Depth to Water (Ft)**	**Water Elevation (ft)**	**Depth to Water (Ft)**	**Water Elevation (ft)**	**Depth to Water (Ft)**	**Water Elevation (ft)**
1/24/2014	KRW	TD=41.04/WD=41.02	0.02	TD=35.44/WD=0	0	TD=25.45/WD=0	0	TD=34.05/WD=34.04	0.01	TD=29.09/WD=29.02	0.07
2/25/2014	KRW	TD=41.04/WD=41.01	0.03	TD=35.44/WD=0	0	TD=25.45/WD=0	0	TD=34.05/WD=34.03	0.02	TD=29.09/WD=29.00	0.09
3/25/2014	KRW	TD=41.04/WD=41.01	0.03	TD=35.44/WD=0	0	TD=25.45/WD=0	0	TD=34.05/WD=34.03	0.02	TD=29.09/WD=29.02	0.07
4/24/2014	KRW	TD=41.04/WD=41.02	0.02	TD=35.44/WD=0	0	TD=25.45/WD=0	0	TD=34.06/WD=34.04	0.02	TD=29.07/WD=29.00	0.07
6/26/2014	KRW	TD=41.04/WD=41.01	0.03	TD=35.44/WD=0	0	TD=25.45/WD=0	0	TD=34.05/WD=34.03	0.02	TD=29.07/WD=29.00	0.07
9/29/2014	KRW	TD=41.04/WD=41.02	0.02	TD=35.44/WD=0	0	TD=25.45/WD=0	0	TD=34.05/WD=34.04	0.01	TD=29.07/WD=29.00	0.07
1/20/2015	KRW	TD=41.04/WD=41.02	0.02	TD=35.44/WD=0	0	TD=25.45/WD=0	0	TD=34.05/WD=34.04	0.01	TD=29.07/WD=29.01	0.06
3/6/2015	KRW	TD=41.04/WD=41.02	0.02	TD=35.44/WD=0	0	TD=25.45/WD=0	0	TD=34.05/WD=34.04	0.01	TD=29.07/WD=29.00	0.07
6/4/2015	KRW	TD=41.04/WD=41.01	0.03	TD=35.44/WD=0	0	TD=25.45/WD=0	0	TD=34.05/WD=34.03	0.02	TD=29.07/WD=29.00	0.07
9/9/2015	KRW	TD=41.04/WD=41.01	0.03	TD=35.44/WD=0	0	TD=25.45/WD=0	0	TD=34.05/WD=34.04	0.01	TD=29.07/WD=29.00	0.07
12/4/2015	SMA	TD=41.04/WD=41.01	0.03	TD=35.44/WD=0	0	TD=25.45/WD=0	0	TD=34.05/WD=34.04	0.01	TD=29.07/WD=29.00	0.07

1. TD = Observed Total Depth by well sounder.
2. WD= Observed Water Depth by well sounder.
3. Most Recent Quarterly Monitoring - highlighted in yellow.



NO.	DATE	REVISION	BY	CHK. APPR. MF

CONTRACTOR

MUSTANG ENGINEERING

HOUSTON, TEXAS

JOB. NO. VITAL RECORD NO.

ExxonMobil *Production*

U.S. WEST

Houston, Texas

SCALE	REVISION	YEAR	SIZE	DIVISION	FIELD	FACILITY	CLASS	TYPE	SEQUENCE

DAM INSPECTION REPORT

Name of Dam: Love Ranch Evaporation Pond Date: March 27, 2015 Division: 6 Dam ID: C-1881

Type of (circle): EARTH FILL, ROCKFILL, CONCRETE, OTHER: Earth Fill

Estimate Actual Capacity: 59,248 yd^3 Estimate Surface Area: 142,825 ft^2

Estimate Height: ft Gauge Rod Reading: 13 ft = elevation 6161

Estimate Freeboard (Pond level to top of dam): 6 ft to Elevation of 6167.00 at the top of Dam

Use: IRRIGATION, MUNICIPAL, OTHER: Salt Water Evaporation

DIRECTIONS: Mark an "X" in the Yes or No column and circle the word or phrase which applies.

	Yes	No
1. Are the roads to the dam adequate to allow ACCESS BY EMERGENCY EQUIPMENT and TRAVEL ACROSS THE DAM (i.e., TRUCKS, AMBULANCES)? SEE ADDITIONAL COMMENTS	X	
2. Is there DEBRIS, TREES, or BRUSH on the upstream slope that prevent seeing the entire surface of the slope?		X
3. Are there TREES or BRUSH on the CREST, or DOWNSTREAM SLOPE that prevent seeing the entire surface of the slope?		X
4. Are there CRACKS, SLIDES, SLUMPS, BOILS, SETTLEMENT or OTHER on the UPSTREAM SLOPE, CREST, or DOWNSTREAM SLOPE?		X
5. Are there RODENT HOLES or ERODED GULLIES on the UPSTREAM or DOWNSTREAM SLOPE?	X	
6. Is there FLOWING WATER or LARGE BOGGY SPOTS at the toe of the dam?		X
7. Are there FLOWS OF WATER or WET SPOTS above the toe of the dam?		X
9. Are there toe drains?	X	
10. Is the water from the TOE DRAINS or LEAKS found to be MUDDY or SANDY? SEE ADDITIONAL COMMENTS		X
16. Is there evidence that the dam has been overtopped?		X
17. Is the reservoir usually full YEAR ROUND, OVER 1/2 OF YEAR, or LESS THAN 1/2 OF YEAR? Over ½ of Year	X	
18. Should this dam be promptly inspected by a field engineer from the State Engineer's offices?		X

Additional Comments:

- Several rodent holes on fill slopes.
- Bird balls in Spillway
- Large vegetation in diversion ditch.
- Toe drain = 16.01'

Inspected By: Nate Grove

DAM INSPECTION REPORT

NAME OF DAM: Love Ranch Evaporation Pond DATE: March 27, 2015

DAM HEIGHT: 44 (ft) MAX. RES. CAPACITY: 50.4 acre ft.

MAXIMUM GAGE ROD: 17 (ft) TODAY'S GAGE HEIGHT: 13 (ft)

NOTE:

a) Enter 1 below if: No problems found in this area, the whole area appears to be acceptable.

b) Circle items of particular concern.

UPSTREAM SLOPE_1

CREST_1

DOWNSTREAM SLOPE_1

SEEPAGE AREAS _1

OUTLET_N/A

SPILLWAY_1

HDPE LINER_1

REQUIRED MAINTENANCE OR ACTION:

INSPECTOR'S SIGNATURE: Nate Cain

DAM INSPECTION REPORT

Name of Dam: Love Ranch Evaporation Pond Date: June 25, 2015 Division: 6 Dam ID: C-1881

Type of (circle): EARTH FILL, ROCKFILL, CONCRETE, OTHER: Earth Fill

Estimate Actual Capacity: 64,537 yd^3 Estimate Surface Area: 146,005 ft^2

Estimate Height: ft Gauge Rod Reading: 14 ft = elevation 6162

Estimate Freeboard (Pond level to top of dam): 5 ft to Elevation of 6167.00 at the top of Dam

Use: IRRIGATION, MUNICIPAL, OTHER: Salt Water Evaporation

DIRECTIONS: Mark an "X" in the Yes or No column and circle the word or phrase which applies.

	Yes	No
1. Are the roads to the dam adequate to allow ACCESS BY EMERGENCY EQUIPMENT and TRAVEL ACROSS THE DAM (i.e., TRUCKS, AMBULANCES)? SEE ADDITIONAL COMMENTS	X	
2. Is there DEBRIS, TREES, or BRUSH on the upstream slope that prevent seeing the entire surface of the slope?		X
3. Are there TREES or BRUSH on the CREST, or DOWNSTREAM SLOPE that prevent seeing the entire surface of the slope?		X
4. Are there CRACKS, SLIDES, SLUMPS, BOILS, SETTLEMENT or OTHER on the UPSTREAM SLOPE, CREST, or DOWNSTREAM SLOPE?		X
5. Are there RODENT HOLES or ERODED GULLIES on the UPSTREAM or DOWNSTREAM SLOPE?	X	
6. Is there FLOWING WATER or LARGE BOGGY SPOTS at the toe of the dam?		X
7. Are there FLOWS OF WATER or WET SPOTS above the toe of the dam?		X
9. Are there toe drains?	X	
10. Is the water from the TOE DRAINS or LEAKS found to be MUDDY or SANDY? SEE ADDITIONAL COMMENTS		X
16. Is there evidence that the dam has been overtopped?		X
17. Is the reservoir usually full YEAR ROUND, OVER 1/2 OF YEAR, or LESS THAN 1/2 OF YEAR? Over ½ of Year	X	
18. Should this dam be promptly inspected by a field engineer from the State Engineer's offices?		X

Additional Comments:

- Rodent holes need to be addressed
- Toe drain = 16.01'

Inspected By: Nate Grove

DAM INSPECTION REPORT

NAME OF DAM: Love Ranch Evaporation Pond DATE: June 25, 2015

DAM HEIGHT: 44 (ft) MAX. RES. CAPACITY: 50.4 acre ft.

MAXIMUM GAGE ROD: 17 (ft) TODAY'S GAGE HEIGHT: 14 (ft)

NOTE:

a) Enter 1 below if: No problems found in this area, the whole area appears to be acceptable.

b) Circle items of particular concern.

UPSTREAM SLOPE 1

CREST Rodent Holes

DOWNSTREAM SLOPE Rodent Holes

SEEPAGE AREAS 1

OUTLET N/A

SPILLWAY 1

HDPE LINER 1

REQUIRED MAINTENANCE OR ACTION:

INSPECTOR'S SIGNATURE: Nate Cain

DAM INSPECTION REPORT

Name of Dam: Love Ranch Evaporation Pond Date: September 25, 2015 Division: 6 Dam ID: C-1881

Type of (circle): EARTH FILL, ROCKFILL, CONCRETE, OTHER: Earth Fill

Estimate Actual Capacity: 64,537 yd^3 Estimate Surface Area: 146,005 ft^2

Estimate Height: ft Gauge Rod Reading: 14 ft = elevation 6162

Estimate Freeboard (Pond level to top of dam): 5 ft to Elevation of 6167.00 at the top of Dam

Use: IRRIGATION, MUNICIPAL, OTHER: Salt Water Evaporation

DIRECTIONS: Mark an "X" in the Yes or No column and circle the word or phrase which applies.

	Yes	No
1. Are the roads to the dam adequate to allow ACCESS BY EMERGENCY EQUIPMENT and TRAVEL ACROSS THE DAM (i.e., TRUCKS, AMBULANCES)? SEE ADDITIONAL COMMENTS	X	
2. Is there DEBRIS, TREES, or BRUSH on the upstream slope that prevent seeing the entire surface of the slope?		X
3. Are there TREES or BRUSH on the CREST, or DOWNSTREAM SLOPE that prevent seeing the entire surface of the slope?		X
4. Are there CRACKS, SLIDES, SLUMPS, BOILS, SETTLEMENT or OTHER on the UPSTREAM SLOPE, CREST, or DOWNSTREAM SLOPE?		X
5. Are there RODENT HOLES or ERODED GULLIES on the UPSTREAM or DOWNSTREAM SLOPE?	X	
6. Is there FLOWING WATER or LARGE BOGGY SPOTS at the toe of the dam?		X
7. Are there FLOWS OF WATER or WET SPOTS above the toe of the dam?		X
9. Are there toe drains?	X	
10. Is the water from the TOE DRAINS or LEAKS found to be MUDDY or SANDY? SEE ADDITIONAL COMMENTS		X
16. Is there evidence that the dam has been overtopped?		X
17. Is the reservoir usually full YEAR ROUND, OVER 1/2 OF YEAR, or LESS THAN 1/2 OF YEAR? Over ½ of Year	X	
18. Should this dam be promptly inspected by a field engineer from the State Engineer's offices?		X

Additional Comments:

- Toe Drain = 16.01'

Inspected By: Nate Grove

DAM INSPECTION REPORT

NAME OF DAM: Love Ranch Evaporation Pond DATE: September 25, 2015

DAM HEIGHT: 44 (ft) MAX. RES. CAPACITY: 50.4 acre ft.

MAXIMUM GAGE ROD: 17 (ft) TODAY'S GAGE HEIGHT: 14 (ft)

NOTE:

a) Enter 1 below if: No problems found in this area, the whole area appears to be acceptable.

b) Circle items of particular concern.

UPSTREAM SLOPE 1

CREST 1

DOWNSTREAM SLOPE 1

SEEPAGE AREAS 1

OUTLET N/A

SPILLWAY 1

HDPE LINER 1

REQUIRED MAINTENANCE OR ACTION:

INSPECTOR'S SIGNATURE: Nate Cau

DAM INSPECTION REPORT

Name of Dam: Love Ranch Evaporation Pond Date: December 30, 2015 Division: 6 Dam ID: C-1881

Type of (circle): EARTH FILL, ROCKFILL, CONCRETE, OTHER: Earth Fill

Estimate Actual Capacity: 53,959 yd^3 Estimate Surface Area: 139,645 ft^2

Estimate Height: ft Gauge Rod Reading: 12 ft = elevation 6160

Estimate Freeboard (Pond level to top of dam): 7 ft to Elevation of 6167.00 at the top of Dam

Use: IRRIGATION, MUNICIPAL, OTHER: Salt Water Evaporation

DIRECTIONS: Mark an "X" in the Yes or No column and circle the word or phrase which applies.

	Yes	No
1. Are the roads to the dam adequate to allow ACCESS BY EMERGENCY EQUIPMENT and TRAVEL ACROSS THE DAM (i.e., TRUCKS, AMBULANCES)? SEE ADDITIONAL COMMENTS	X	
2. Is there DEBRIS, TREES, or BRUSH on the upstream slope that prevent seeing the entire surface of the slope?		X
3. Are there TREES or BRUSH on the CREST, or DOWNSTREAM SLOPE that prevent seeing the entire surface of the slope?		X
4. Are there CRACKS, SLIDES, SLUMPS, BOILS, SETTLEMENT or OTHER on the UPSTREAM SLOPE, CREST, or DOWNSTREAM SLOPE?		X
5. Are there RODENT HOLES or ERODED GULLIES on the UPSTREAM or DOWNSTREAM SLOPE?	X	
6. Is there FLOWING WATER or LARGE BOGGY SPOTS at the toe of the dam?		X
7. Are there FLOWS OF WATER or WET SPOTS above the toe of the dam?		X
9. Are there toe drains?	X	
10. Is the water from the TOE DRAINS or LEAKS found to be MUDDY or SANDY? SEE ADDITIONAL COMMENTS		X
16. Is there evidence that the dam has been overtopped?		X
17. Is the reservoir usually full YEAR ROUND, OVER 1/2 OF YEAR, or LESS THAN 1/2 OF YEAR? Over ½ of Year	X	
18. Should this dam be promptly inspected by a field engineer from the State Engineer's offices?		X

Additional Comments:

- Toe Drain = 16.01'

Inspected By: Nate Grove

DAM INSPECTION REPORT

NAME OF DAM: Love Ranch Evaporation Pond DATE: December 30, 2015

DAM HEIGHT: 44 (ft) MAX. RES. CAPACITY: 50.4 acre ft.

MAXIMUM GAGE ROD: 17 (ft) TODAY'S GAGE HEIGHT: 12 (ft)

NOTE:

a) Enter 1 below if: No problems found in this area, the whole area appears to be acceptable.

b) Circle items of particular concern.

UPSTREAM SLOPE 1

CREST 1

DOWNSTREAM SLOPE 1

SEEPAGE AREAS 1

OUTLET N/A

SPILLWAY 1

HDPE LINER 1

REQUIRED MAINTENANCE OR ACTION:

INSPECTOR'S SIGNATURE: Nate Gore

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PS Form 3800, August 2006 See Reverse for Instructions