



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

06/13/2023

John P. Ayarbe
Senior Hydrogeologist
Daniel B. Stephens & Associates, Inc.
6020 Academy Road NE, Suite 100
Albuquerque, NM 87109

Emailed to: jayarbe@geo-logic.com on date of letter.

RE: Salty Dog Brine Facility

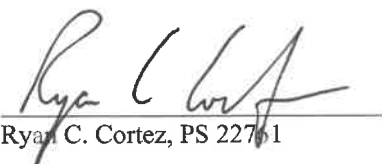
Atkins Engineering Associates, Inc. (AEA) has completed the survey at the Salty Dog Brine Facility. Field work was performed on 06/13/2023. The following table summarizes the coordinate and elevation data for the subsidence monitoring locations located on site.

Name	Northing (USft)	Easting (USft)	Latitude (DMS)	Longitude (DMS)	Elevation (USft)
SMP-1	615475.977	836301.437	32°41'17.960"	-103°22'28.520"	3810.10
SMP-2	615354.850	836264.338	32°41'16.795"	-103°22'28.966"	3809.02
SMP-3	615673.004	836230.089	32°41'19.945"	-103°22'29.334"	3808.82
SMP-4	615615.830	836543.487	32°41'19.352"	-103°22'25.673"	3806.32
SMP-5	615539.029	836348.733	32°41'18.609"	-103°22'27.960"	3810.06
Benchmark	615608.14	836310.07	32°41'19.27"	-103°22'28.40"	3808.62

Horizontal coordinates shown are coordinates provided by earlier survey that was conducted by Gary L. Jones, NMPS 7977. Coordinates are in NM State Plane East (NAD83).

Elevations for subsidence monitoring locations were established by using closed level loops, referenced to onsite benchmark previously set by Gary L. Jones. Benchmark is a ½" rebar with plastic cap 7977.

If you have any questions, please contact me at (575) 624-2420 or ryan@atkinseng.com


Ryan C. Cortez, PS 22761

6/13/2023
Date (Signed)



From: [Ayarbe, John](#)
To: [Chavez, Carl, EMNRD](#)
Cc: ["Pieter Bergstein \(pieter@bergsteinenterprises.com\)"; jack@thestandardenergy.com; saskia@thestandardenergy.com; jasonw@thestandardenergy.com](#)
Subject: Salty Dog Brine Station (DP BW-8), subsidence monitoring data
Date: Friday, June 23, 2023 10:58:00 AM

Hi Carl,

In accordance with Condition 2.B.1 of DP BW-8 (OCD 03/24/2019), Salty Dog (OGRID 184208) monitors for potential land subsidence in the area of the brine well semiannually. Salty dog is required to report the associated survey data to OCD within 15 days of receipt. The subsidence monitoring points are surveyed using the nearest U.S. Geological Survey (USGS) benchmark referenced to NM State Plane East (NAD 83).

The survey data for the most recent monitoring event (06/13/2023) are reported in the table below. Atkins Engineering Associates Inc. conducted the survey. The surface elevations at the five subsidence monitoring points changed little between this monitoring event and the previous monitoring event in February 2023. The survey data show that there has been no land subsidence. The current survey results are within 0.01 foot of the baseline elevations, well below the 0.10 ft criterium specified in Condition 2.B.1 of DP BW-8.

Potential Land Surface Subsidence Monitoring Data

Survey Monitoring Point	Elevation (feet msl)		
	<u>Atkins' Original</u> <u>6/29/2021</u>	<u>02/02/2023</u>	<u>06/13/2023</u>
SMP-01	3,810.10	3,810.10	3,810.10
SMP-02	3,809.02	3,809.02	3,809.02
SMP-03	3,808.83	3,808.83	3,808.82
SMP-04	3,806.33	3,806.33	3,806.32
SMP-05 (brine well)	3,810.06	3,810.06	3,810.06

Thanks!

John P. Ayarbe

Senior Hydrogeologist

Daniel B. Stephens & Associates, Inc.

a Geo-Logic Company

6020 Academy Road NE, Suite 100

Albuquerque, New Mexico 87109

Office: (505) 822-9400 | Direct: (505) 353-9137

Mobile: (505) 280-4339

jayarbe@dbstephens.com or jayarbe@geo-logic.com

www.dbstephens.com | www.geo-logic.com

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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

COMMENTS

Action 232293

COMMENTS

Operator: SALTY DOG INC P.O. Box 513 Hobbs, NM 88240	OGRID: 184208
	Action Number: 232293
	Action Type: [UF-DP] Brine Facility Discharge Plan (DISCHARGE PLAN BRINE EXTRACTION)

COMMENTS

Created By	Comment	Comment Date
cchavez	Surface subsidence monument elevation survey monitoring report June 13, 2023	6/26/2023

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cchavez	None	6/26/2023