NM2 - ____7____

MONITORING REPORTS YEAR(S):

__2011 - 2015__

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

CERTIFIED MAIL
7012 1010 0002 1168 7456

February 18, 2015

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Annual Report: Permit NM-02-0007
BP Cahn Waste Management Facility
NW/4 Sec. 33 - T32N - R10W, San Juan County, NM

Dear Mr. Jones:

On behalf of BP America Production Co., Blagg Engineering, Inc. (BEI) is submitting this 2014 calendar year annual report for the Cahn Waste Management Facility, Permit NM-02-0007. Attached are spread sheets that summarize the weekly evaporation pond and monthly sump monitoring test results.

General Pond Monitoring

Produced water inflow to the Cahn Evaporation Pond is through a pipeline from the Schneider Waste Management Facility. No other pipelines discharge water to the facility. Weekly monitoring has not indicated the generation of dissolved sulfide or hydrogen sulfide gas during any inspections. During 2014 there was no inflow from the Schneider facility and the only water in the pond was from precipitation.

Landfarm Treatment Zone Monitoring

No landfarm cells were constructed during the 2014 calendar year and no treatment zone monitoring was required or performed.

Evaporation Pond Sludge Thickness

Pond sludge thickness was measured on July 7, 2014. On this date the pond was dry and salt precipitation covered the entire base. The average salt/sediment thickness was measured at 3.2 inches, with the majority of this accumulation being the salt precipitate.

Leak Detection System Monitoring

The primary top liner leak detection system remained dry for most of the 2014 monitoring year. An older, deep leak detection system has remained in place since the facility was relined in 2003. This system continues to capture fluids at a very low rate (< 0.1 gallon/week) from prior liquids trapped within the deep, abandon liner system.

Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or to Jeff Peace with BP at (505)326-9200.

Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.,
President

Attachments: Monitoring Spread Sheets

cc: Brandon Powell, NMOCD Aztec District Office
Jeff Peace, P.E., BP SJ Operations Center

BP - America Production Company
Cahn Waste Management Facility
Field Data Summary

NW / 4, Section 33, T 32 N, R 10 W, N.M.P.M
San Juan County, New Mexico

REVISED DATE: Feb 18, 2015 (JCB)

BLAGG ENGINEERING, INC.

INITIAL DATE	WIND SPEED mph	WIND DIRECTION bearing	H2S ppm	DISSOLVED SULFIDE ppm	DISSOLVED OXYGEN ppm	TEMP. celcius	pH	FREE-BOARD ft.	LINER / BERM INTEGRITY	COMMENTS
01/06/14	3-5	From 90	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
01/14/14	4-6	From 180	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
01/22/14	5-8	From 180	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
01/29/14	8-12	From 90	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
02/07/14	2-4	From 45	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
02/12/14	0-2	From 180	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
02/20/14	2-4	From 90	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
02/25/14	4-6	From 270	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
03/03/14	12-15	From 235	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
03/13/14	4-8	From 90	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
03/18/14	2-4	From 45	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
03/27/14	10-15	From 235	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
04/01/14	4-6	From 180	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
04/07/14	8-12	From 270	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
04/16/14	4-6	From 45	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
04/24/14	5-10	From 180	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
04/30/14	4-8	From 270	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
05/05/14	10-15	From 270	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
05/13/14	10-20	From 225	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
05/19/14	2-4	From 90	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
05/28/14	10-15	From 270	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
06/02/14	Calm	NA	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
06/11/14	Calm	NA	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
06/18/14	4-6	From 90	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
06/27/14	2-4	From 45	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
07/03/14	5-10	From 270	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
07/07/14	5-10	From 45	0	NA	TLTM	NA	NA	3.40	Y	Measure Salt Thickness (Annual Measurements) Ave = 3.0"
07/16/14	5-8	From 0	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base

BP - America Production Company
Cahn Waste Management Facility
Field Data Summary

NW / 4, Section 33, T 32 N, R 10 W, N.M.P.M
San Juan County, New Mexico

REVISED DATE: Feb 18, 2015 (JCB)

BLAGG ENGINEERING, INC.

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07/23/14	0-2	From 45	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
07/30/14	Calm	NA	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
08/04/14	2-4	From 180	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
08/15/14	2-4	2-4	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
08/21/14	4-6	From 45	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
08/27/14	1-3	From 180	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
09/04/14	6-8	From 135	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
09/08/14	12-15	From 180	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
09/17/14	4-8	From 90	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
09/25/14	3-5	From 135	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
09/29/14	8-12	From 270	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
10/03/14	6-8	From 45	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
10/10/14	1-3	From 135	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
10/17/14	Calm	NA	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
10/22/14	2-4	From 0	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
10/30/14	8-12	From 270	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
11/04/14	2-4	From 180	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
11/13/14	Calm	NA	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
11/18/14	4-6	From 90	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
11/24/14	5-7	From 180	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
12/02/14	Calm	NA	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
12/09/14	4-6	From 90	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
12/15/14	2-4	From 90	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
12/22/14	3-5	From 135	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base
12/29/14	1-3	From 45	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base

BP - America Production Company
Cahn Waste Management Facility
Leak Detection - Monthly Insepection Field Data Summary

NW / 4, Section 33, T 32 N, R 10 W, N.M.P.M
San Juan County, New Mexico

REVISED DATE: February 18, 2015 (JCB)

BLAGG ENGINEERING, INC.

	SW SUMP				SE SUMP			
INITIAL DATE	**DISSOLVED SULFIDE ppm**	**DISSOLVED OXYGEN ppm**	**TEMP. celcius**	**pH**	**DISSOLVED SULFIDE ppm**	**DISSOLVED OXYGEN ppm**	**TEMP. celcius**	**pH**
01/06/14	0.0	1.12	8.6	9.0	0.0	1.00	8.8	9.2
02/07/14	0.0	0.62	4.9	9.0	0.0	0.68	5.2	9.0
03/03/14	0.0	1.40	5.2	8.9	0.0	1.40	5.4	9.1
04/01/14	0.0	0.99	8.8	9.0	0.0	0.97	9.0	9.0
05/05/14	0.0	1.15	10.4	9.1	0.0	1.15	10.8	9.2
06/02/14	0.0	1.60	18.6	9.2	0.0	1.62	19.0	9.2
07/03/14	0.0	0.82	21.1	9.0	0.0	1.04	22.1	9.2
08/04/14	0.0	1.04	22.2	8.9	0.0	1.74	22.3	9.1
09/04/14	0.0	1.50	20.6	8.8	0.0	0.84	20.8	9.1
10/03/14	0.0	0.55	18.2	9.2	0.0	0.56	19.0	9.0
11/04/14	0.0	0.75	16.3	9.0	0.0	1.22	17.4	9.2
12/02/14	0.0	1.48	9.4	9.1	0.0	1.42	9.9	9.1

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

February 24, 2014

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Annual Report: Permit NM-02-0007
BP Cahn Waste Management Facility
NW/4 Sec. 33 - T32N - R10W, San Juan County, NM

Dear Mr. Jones:

On behalf of BP America Production Co., Blagg Engineering, Inc. (BEI) is submitting this 2013 calendar year annual report for the Cahn Waste Management Facility, Permit NM-02-0007. Attached are spread sheets that summarize the weekly evaporation pond and monthly sump monitoring test results.

General Pond Monitoring

Produced water inflow to the Cahn Evaporation Pond is through a pipeline from the Schneider Waste Management Facility. No other pipelines discharge water to the facility. Weekly monitoring has not indicated the generation of dissolved sulfide or hydrogen sulfide gas during any inspections. During 2013 there was no inflow from the Schneider facility and the only water in the pond was from precipitation.

Landfarm Treatment Zone Monitoring

No landfarm cells were constructed during the 2013 calendar year and no treatment zone monitoring was required or performed.

Evaporation Pond Sludge Thickness

Pond sludge thickness was measured on November 6, 2013. On this date the pond was dry and salt precipitation covered the entire base. The average salt/sediment thickness was measured at 3.0 inches, with the majority of this accumulation being the salt precipitate.

Leak Detection System Monitoring

The primary top liner leak detection system remained dry for the entire 2013 monitoring year. An older, deep leak detection system has remained in place since the facility was relined in 2003. This system continues to capture fluids at a very low rate (< 0.1 gallon/week) from prior liquids trapped within the deep, abandon liner system.

Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or to Jeff Peace with BP at (505)326-9200.

Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.,
President

Attachments: Monitoring Spread Sheets

cc: Brandon Powell, NMOCD Aztec District Office
Jeff Peace, P.E., BP SJ Operations Center

BP - America Production Company
Cahn Waste Management Facility
Field Data Summary

SW / 4, Section 28, T 32 N, R 10 W, N.M.P.M
San Juan County, New Mexico

REVISED DATE: Feb 22, 2014 (JCB)

BLAGG ENGINEERING, INC.

INITIAL DATE	WIND SPEED mph	WIND DIRECTION bearing	H2S ppm	DISSOLVED SULFIDE ppm	DISSOLVED OXYGEN ppm	TEMP. celcius	pH	FREE-BOARD ft.	LINER / BERM INTEGRITY	COMMENTS
01/04/13	2-4	From 180	0	0.0	TLTM	0.4	9.0	3.40	Y	Salt covering entire base - 2 inches precipitation water on top of salt
01/08/13	2-5	From 270	0	0.0	TLTM	2.1	8.9	3.40	Y	Salt covering entire base - Trace precipitation water on top of salt
01/15/13	2-4	From 180	0	0.0	TLTM	4.2	9.1	3.40	Y	Salt covering entire base - Trace precipitation water on top of salt
01/23/13	5-8	From 90	0	0.0	TLTM	1.1	9.1	3.40	Y	Salt covering entire base - 2 inches precipitation water on top of salt
01/29/13	10-12	From 270	0	0.0	TLTM	2.1	9.0	3.40	Y	Salt covering entire base - 2 inches precipitation water on top of salt
02/04/13	0-2	From 90	0	0.0	TLTM	2.8	9.2	3.40	Y	Salt covering entire base - 2 inches precipitation water on top of salt
02/11/13	2-4	From 180	0	0.0	TLTM	9.7	9.1	3.40	Y	Salt covering entire base - Trace precipitation water on top of salt
02/18/13	2-4	From 45	0	0.0	TLTM	1.7	9.0	3.40	Y	Salt covering entire base - Trace precipitation water on top of salt
02/25/13	1-3	From 90	0	0.0	TLTM	2.1	9.1	3.40	Y	Salt covering entire base - Trace precipitation water on top of salt
03/06/13	4-8	From 45	0	0.0	TLTM	6.7	8.9	3.40	Y	Salt covering entire base - 2 inches precipitation water on top of salt
03/14/13	0-5	From 135	0	0.0	TLTM	16.0	8.7	3.40	Y	Salt covering entire base - Trace precipitation water on top of salt
03/18/13	15-25	From 270	0	0.0	TLTM	NA	NA	3.40	Y	Salt covering entire base - Trace precipitation water on top of salt
03/25/13	5-8	From 135	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
04/02/13	5-10	From 180	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
04/08/13	15-25	From 225	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
04/16/13	5-10	From 225	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
04/23/13	5-8	From 180	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
05/01/13	10-15	From 270	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
05/07/13	Calm	NA	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - trace water
05/17/13	10-15	From 225	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
05/21/13	10-20	From 225	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - Trace precipitation water on top of salt
05/31/13	2-4	From 135	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
06/06/13	Calm	NA	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
06/11/13	2-5	From 0	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
06/19/13	0-5	From 180	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
06/24/13	5-10	From 225	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
07/01/13	CALM	NA	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
07/09/13	5-8	From 0	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water

BP - America Production Company
Cahn Waste Management Facility
Field Data Summary

SW / 4, Section 28, T 32 N, R 10 W, N.M.P.M
San Juan County, New Mexico

REVISED DATE: Feb 22, 2014 (JCB)

BLAGG ENGINEERING, INC.

INITIAL DATE	WIND SPEED mph	WIND DIRECTION bearing	H2S ppm	DISSOLVED SULFIDE ppm	DISSOLVED OXYGEN ppm	TEMP. celcius	pH	FREE-BOARD ft.	LINER / BERM INTEGRITY	COMMENTS
07/15/13	5-8	From 45	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - 1 inch precipitation water on top of salt
07/24/13	CALM	NA	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - Trace precipitation water on top of salt
08/01/13	2-4	From 225	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - Trace precipitation water on top of salt
08/06/13	Calm	NA	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - Trace precipitation water on top of salt
08/15/13	5-10	From 180	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
08/23/13	2-4	From 225	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - 1 inch precipitation water on top of salt
08/26/13	3-5	From 0	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - 1 inch precipitation water on top of salt
09/03/13	5-8	From 225	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
09/13/13	4-8	From 135	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - 1 inch precipitation water on top of salt
09/17/13	5-10	From 45	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - 1 inch precipitation water on top of salt
09/23/13	10-18	From 270	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - 1 inch precipitation water on top of salt
10/02/13	2-4	From 135	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
10/09/13	Calm	NA	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
10/14/13	4-8	From 0	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
10/22/13	2-4	From 0	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
10/30/13	10-15	From 225	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
11/06/13	Calm	NA	0	NA	TLTM	NA	NA	3.40	Y	Measure Salt Thickness (Annual Measurements) Ave = 3.0"
11/14/13	2-4	From 45	0	NA	TLTM	NA	NA	3.40	Y	Salt covering entire base - no water
11/22/13	5-10	From 180	0	NA	TLTM	8.0	8.8	3.40	Y	Salt covering entire base - 3 inchs precipitation water on top of salt
11/25/13	Calm	NA	0	NA	TLTM	3.1	8.9	3.40	Y	Salt covering entire base - 2 inchs precipitation water on top of salt
12/04/13	2-4	From 180	0	0.0	TLTM	NA	NA	3.40	Y	Salt covering entire base - Trace precipitation water on top of salt
12/13/13	5-10	From 270	0	0.0	TLTM	1.9	9.2	3.40	Y	Salt covering entire base - 3 inchs precipitation water on top of salt
12/17/13	5-7	From 180	0	0.0	TLTM	2.6	9.1	3.40	Y	Salt covering entire base - 3 inchs precipitation water on top of salt
12/23/13	3-5	From 45	0	0.0	TLTM	2.0	9.0	3.40	Y	Salt covering entire base - 4 inchs precipitation water on top of salt
12/30/13	5-8	From 225	0	0.0	TLTM	4.7	9.0	3.40	Y	Salt covering entire base - 2 inchs precipitation water on top of salt

BP - America Production Company
Cahn Waste Management Facility
Leak Detection - Monthly Insepection Field Data Summary

SW / 4, Section 28, T 32 N, R 10 W, N.M.P.M
San Juan County, New Mexico

REVISED DATE: February 22, 2014 (JCB)

BLAGG ENGINEERING, INC.

	SW SUMP				SE SUMP			
INITIAL DATE	DISSOLVED SULFIDE ppm	DISSOLVED OXYGEN ppm	TEMP. celcius	pH	DISSOLVED SULFIDE ppm	DISSOLVED OXYGEN ppm	TEMP. celcius	pH
01/04/13	0.0	0.88	8.4	8.9	0.0	1.09	9.0	9.0
02/04/13	0.0	1.34	7.1	8.9	0.0	1.72	6.8	9.0
03/06/13	0.0	1.18	3.6	9.1	0.0	2.03	3.5	9.2
04/02/13	0.0	0.69	9.5	9.0	0.0	1.42	9.3	9.1
05/01/13	0.0	3.86	11.2	9.1	0.0	1.19	11.4	9.0
06/06/13	0.0	1.24	20.2	9.1	0.0	2.66	20.3	9.0
07/01/13	0.0	1.16	23.0	9.1	0.0	1.58	23.8	9.2
08/01/13	0.0	2.33	22.0	9.2	0.0	1.04	22.4	9.2
09/03/13	0.0	1.54	21.8	9.1	0.0	0.66	22.1	9.2
10/02/13	0.0	1.08	19.4	9.2	0.0	0.84	19.6	9.2
11/06/13	0.0	0.64	16.1	9.1	0.0	0.98	16.2	9.2
12/04/12	0.0	1.11	10.1	9.2	0.0	2.16	10.2	9.2

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

USPS CERTIFIED
7011 1570 0002 2817 3438

February 28, 2013

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Annual Report: Permit NM-02-0007
BP Cahn Waste Management Facility
NW/4 Sec. 33 - T32N - R10W, San Juan County, NM

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General Pond Monitoring

Produced water inflow to the Cahn Evaporation Pond is through a pipeline from the Schneider Waste Management Facility. No other pipelines discharge water to the facility. Weekly monitoring has not indicated the generation of dissolved sulfide or hydrogen sulfide gas during any inspections. During 2012 there was no inflow from the Schneider facility and the only water in the pond was from precipitation. Beginning on March 27, 2012 to the end of the year there was only occasional trace amounts of water in the pond from local precipitation.

Landfarm Treatment Zone Monitoring

No landfarm cells were constructed during the 2012 calendar year and no treatment zone monitoring was required or performed.

Evaporation Pond Sludge Thickness

Pond sludge thickness was measured on October 18, 2012. On this date the pond was dry and salt precipitation covered the entire base. The average salt/sediment thickness was measured at 2.8 inches, with the majority of this accumulation being the salt precipitate.

Leak Detection System Monitoring

The primary top liner leak detection system remained dry for the entire 2012 monitoring year. An older, deep leak detection system has remained in place since the facility was relined in 2003. This system continues to capture fluids at a very low rate (< 0.1 gallon/week) from prior liquids trapped within the deep, abandon liner system.

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Jeffrey C. Blagg, P.E.,
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Cahn Waste Management Facility
Field Data Summary

SW / 4, Section 28, T 32 N, R 10 W, N.M.P.M
San Juan County, New Mexico

REVISED DATE: FEBRUARY, 2013 (JCB)

BLAGG ENGINEERING, INC.

INSPECT DATE	WIND SPEED mph	WIND DIR.	H2S ppm	DISS. SULFIDE ppm	DISSOLVED OXYGEN ppm	TEMP. celcius	pH	FREE-BOARD ft.	LINER / BERM INTEGRITY	COMMENTS
01/03/2012	calm	xx	0.0	0.0	TLTM	-0.1	8.8	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
01/13/2012	calm	xx	0.0	0.0	TLTM	2.8	8.8	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
01/16/2012	0-2	S	0.0	0.0	TLTM	0.2	8.8	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
01/27/2012	5-10	W	0.0	0.0	TLTM	3.0	8.7	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
02/02/2012	2-4	NE	0.0	0.0	TLTM	4.0	8.8	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
02/08/2012	2-5	SW	0.0	0.0	TLTM	7.0	8.6	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
02/14/2012	Calm	xx	0.0	0.0	TLTM	1.0	8.7	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
02/20/2012	4-7	NE	0.0	0.0	TLTM	4.2	8.5	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
03/01/2012	3-5	S	0.0	0.0	TLTM	1.7	8.4	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
03/07/2012	0-2	E	0.0	0.0	TLTM	3.7	8.7	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
03/12/2012	5-7	SW	0.0	0.0	TLTM	16.1	8.8	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
03/22/2012	8-10	W	0.0	0.0	TLTM	6.8	8.8	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
03/27/2012	3-4	SE	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
04/05/2012	4-7	SW	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
04/09/2012	0-1	NE	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
04/19/2012	1-3	W	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off

BP - America Production Company
Cahn Waste Management Facility
Field Data Summary

SW / 4, Section 28, T 32 N, R 10 W, N.M.P.M
San Juan County, New Mexico

REVISED DATE: FEBRUARY, 2013 (JCB)

BLAGG ENGINEERING, INC.

INSPECT DATE	WIND SPEED mph	WIND DIR.	H2S ppm	DISS. SULFIDE ppm	DISSOLVED OXYGEN ppm	TEMP. celcius	pH	FREE-BOARD ft.	LINER / BERM INTEGRITY	COMMENTS
04/27/2012	2-4	N	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
05/04/2012	6-9	N	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
05/09/2012	5-8	N	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
05/16/2012	5-8	SW	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
05/21/2012	0-5	SE	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
05/29/2012	4-6	SW	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
06/03/2012	3-9	N	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
06/14/2012	2-4	N	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
06/19/2012	1-4	NE	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off.
06/26/2012	3-8	N	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
07/05/2012	3-7	W	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
07/09/2012	2-4	E	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
07/20/2012	0-2	W	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
07/27/2012	Calm	xx	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off.
08/03/2012	2-4	N	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off.
08/07/2012	5-10	S	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off.
08/13/2012	6-11	W	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off.
08/23/2012	5-8	SW	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
08/31/2012	6-13	N	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
09/06/2012	2-4	E	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
09/10/2012	Calm	xx	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
09/20/2012	Calm	xx	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
09/25/2012	4-7	N	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
10/03/2012	2-8	N	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
10/10/2012	2-4	W	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
10/18/2012	4-5	SW	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
10/23/2012	3-8	W	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off
11/01/2012	Calm	xx	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off.
11/07/2012	0-3	N	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off.

BP - America Production Company
Cahn Waste Management Facility
Field Data Summary

SW / 4, Section 28, T 32 N, R 10 W, N.M.P.M
San Juan County, New Mexico

REVISED DATE: FEBRUARY, 2013 (JCB)

BLAGG ENGINEERING, INC.

INSPECT DATE	WIND SPEED mph	WIND DIR.	H2S ppm	DISS. SULFIDE ppm	DISSOLVED OXYGEN ppm	TEMP. celcius	pH	FREE-BOARD ft.	LINER / BERM INTEGRITY	COMMENTS
11/13/2012	0-1	E	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off.
11/21/2012	Calm	xx	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off.
11/27/2012	2-5	W	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off.
12/05/2012	6-11	E	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off.
12/10/2012	0-1	S	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off.
12/20/2012	0-1	SW	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off.
12/26/2012	5-10	S	0.0	NA	TLTM	NA	NA	>3.4	Y	Base Salt Covered. Water transfer from Schneider off.
12/31/2012	3-5	SW	0.0	0.0	TLTM	3.0	8.8	>3.4	Y	Base Salt Covered. Water transfer from Schneider off.

BP - America Production Company
Cahn Waste Management Facility
Leak Detection - Monthly Insepection Field Data Summary

SW / 4, Section 28, T 32 N, R 10 W, N.M.P.M
San Juan County, New Mexico

REVISED DATE: February 28, 2013 (JCB)

BLAGG ENGINEERING, INC.

	SW SUMP				SE SUMP			
INITIAL DATE	DISSOLVED SULFIDE ppm	DISSOLVED OXYGEN ppm	TEMP. celcius	pH	DISSOLVED SULFIDE ppm	DISSOLVED OXYGEN ppm	TEMP. celcius	pH
01/03/12	0.0	0.61	5.1	9.0	0.0	3.84	5.2	8.9
02/02/12	0.0	0.17	5.0	9.1	0.0	1.00	5.1	9.2
03/01/12	0.0	0.56	5.1	8.9	0.0	0.88	7.3	9.0
04/05/12	0.0	3.72	8.7	9.1	0.0	0.79	8.9	9.0
05/04/12	0.0	1.18	13.7	9.1	0.0	0.68	14.8	9.2
06/03/12	0.0	0.86	19.2	9.1	0.0	1.14	19.3	9.2
07/05/12	0.0	0.87	21.2	9.1	0.0	2.96	21.3	9.1
08/03/12	0.0	2.27	22.5	9.1	0.0	1.99	22.5	9.1
09/06/12	0.0	3.11	20.1	9.1	0.0	0.89	19.9	9.2
10/03/12	0.0	1.12	15.3	9.0	0.0	1.64	15.2	9.1
11/01/12	0.0	0.71	15.0	9.2	0.0	1.90	15.4	9.1
12/05/12	0.0	1.49	13.0	9.0	0.0	0.96	12.9	9.0

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

CERTIFIED # 7011 1570 0002 2819 3636

RECEIVED OCD
2012 FEB 27 A 11: 33

February 22, 2012

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Annual Report: Permit NM-02-0007
BP Cahn Waste Management Facility
NW/4 Sec. 33 - T32N - R10W, San Juan County, NM

Dear Mr. Jones:

On behalf of BP America Production Co., Blagg Engineering, Inc. (BEI) is submitting this 2011 calendar year annual report for the Cahn Waste Management Facility, Permit NM-02-0007. Attached are spread sheets that summarize the weekly evaporation pond and monthly sump monitoring test results.

General Pond Monitoring

Produced water inflow to the Cahn Evaporation Pond is through a pipeline from the Schneider Waste Management Facility. No other pipelines discharge water to the facility. Weekly monitoring has not indicated the generation of dissolved sulfide or hydrogen sulfide gas during any inspections. Between June 22, 2010 and October 24, 2011 the pond was primarily dry or had a small amount of precipitation water on top of a salt precipitate. At year end 2011 a trace amount of residual precipitation water was in the pond, with a freeboard of 3.3 feet.

Landfarm Treatment Zone Monitoring

No landfarm cells were constructed during the 2011 calendar year and no treatment zone monitoring was required or performed.

Evaporation Pond Sludge Thickness

Pond sludge thickness was measured on October 12, 2011. On this date the pond was dry and salt precipitation covered the entire base. The average salt/sediment thickness was measured at 3.9 inches, with the majority of this accumulation being the salt precipitate.

Leak Detection System Monitoring

The primary top liner leak detection system remained dry for the entire 2011 monitoring year. An older, deep leak detection system has remained in place since the facility was relined in 2003. This system continues to capture fluids at a very low rate (< 0.1 gallon/week) from prior liquids trapped within the deep, abandon liner system.

Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or to Jeff Peace with BP at (505)326-9200.

Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.,
President

Attachments: Monitoring Spread Sheets

cc: Brandon Powell, NMOCD Aztec District Office
Jeff Peace, P.E., BP SJ Operations Center

BP - America Production Company
Cahn Waste Management Facility
Field Data Summary

SW / 4, Section 28, T 32 N, R 10 W, N.M.P.M
San Juan County, New Mexico

REVISED DATE: FEBRUARY, 2012 (JCB)

BLAGG ENGINEERING, INC.

INSPECT DATE	WIND SPEED mph	WIND DIR.	H2S ppm	DISS. SULFIDE ppm	DISSOLVED OXYGEN ppm	TEMP. celcius	pH	FREE-BOARD ft.	LINER / BERM INTEGRITY	COMMENTS
01/04/2011	1-3	N	0.0	0.0	TLTM	NA	NA	>3.3	Y	Base salt covered, water frozen, xfer from Schneider off
01/10/2011	4-4	N	0.0	0.0	TLTM	0.6	8.7	3.2	Y	Base Salt Covered. Water transfer from Schneider off
01/21/2011	4-6	SE	0.0	0.0	TLTM	3.3	8.5	3.3	Y	Base Salt Covered. Water transfer from Schneider off
01/26/2011	5-10	N	0.0	0.0	TLTM	-1.0	8.5	3.3	Y	Base Salt Covered. Water transfer from Schneider off
02/02/2011	0-2	NW	0.0	0.0	TLTM	-1.0	8.7	3.3	Y	Base Salt Covered. Water transfer from Schneider off
02/07/2011	2-5	SW	0.0	0.0	TLTM	7.0	8.6	3.3	Y	Base Salt Covered. Water transfer from Schneider off
02/15/2011	Calm		0.0	0.0	TLTM	1.0	8.2	>3.3	Y	Base Salt Covered. Water transfer from Schneider off
02/22/2011	5-10	NE	0.0	0.0	TLTM	4.2	8.5	>3.3	Y	Base Salt Covered. Water transfer from Schneider off
03/01/2011	5-10	N	0.0	0.0	TLTM	1.7	8.8	>3.3	Y	Base Salt Covered. Water transfer from Schneider off
03/07/2011	0-2	N	0.0	0.0	TLTM	3.7	8.7	>3.3	Y	Base Salt Covered. Water transfer from Schneider off
03/14/2011	2-4	S	0.0	0.0	TLTM	16.1	9.0	>3.3	Y	Base Salt Covered. Water transfer from Schneider off
03/22/2011	10-15	W	0.0	0.0	TLTM	6.8	8.6	>3.3	Y	Base Salt Covered. Water transfer from Schneider off
03/30/2011	2-4	SE	0.0	0.0	TLTM	2.0	8.6	>3.3	Y	Base Salt Covered. Water transfer from Schneider ON
04/04/2011	5-8	SE	0.0	0.0	TLTM	13.1	8.1	3.3	Y	Base Salt Covered. Water transfer from Schneider ON
04/11/2011	0-1	NE	0.0	0.0	TLTM	11.3	8.3	3.2	Y	Base Salt Covered. Water transfer from Schneider off
04/20/2011	5-10	N	0.0	0.0	TLTM	7.9	7.6	3.3	Y	Base Salt Covered. Water transfer from Schneider off
04/25/2011	2-4	N	0.0	0.0	TLTM	9.3	8.1	3.2	Y	Base Salt Covered. Water transfer from Schneider off
05/04/2011	5-8	S	0.0	0.0	TLTM	9.6	9.1	3.3	Y	Base Salt Covered. Water transfer from Schneider off
05/11/2011	5-8	S	0.0	0.0	TLTM	15.0	8.4	3.3	Y	Base Salt Covered. Water transfer from Schneider ON
05/16/2021	13-24	S	0.0	0.0	TLTM	16.3	9.2	3.3	Y	Base Salt Covered. Water transfer from Schneider off
05/24/2011	0-5	SW	0.0	0.0	TLTM	15.9	8.7	3.3	Y	Base Salt Covered. Water transfer from Schneider off
06/01/2011	2-7	N	0.0	0.0	TLTM	15.0	8.0	3.3	Y	Base Salt Covered. Water transfer from Schneider off
06/07/2011	2-4	N	0.0	0.0	TLTM	12.6	8.7	3.2	Y	Base Salt Covered. Water transfer from Schneider ON
06/13/2011	3-11	NNE	0.0	0.0	TLTM	12.1	9.2	>3.4	Y	Base Salt Covered. Water transfer from Schneider off.
06/22/2011	3-8	N	0.0					>3.4	Y	Base Salt Covered. Water transfer from Schneider off. Pond Dry.

BP - America Production Company
Cahn Waste Management Facility
Field Data Summary

SW / 4, Section 28, T 32 N, R 10 W, N.M.P.M
San Juan County, New Mexico

REVISED DATE: FEBRUARY, 2012 (JCB)

BLAGG ENGINEERING, INC.

INSPECT DATE	WIND SPEED mph	WIND DIR.	H2S ppm	DISS. SULFIDE ppm	DISSOLVED OXYGEN ppm	TEMP. celcius	pH	FREE-BOARD ft.	LINER / BERM INTEGRITY	COMMENTS
06/29/2011	3-6	N	0.0					>3.4	Y	Base Salt Covered. Water transfer from Schneider off. Pond Dry.
07/06/2011	0-6	S	0.0					>3.4	Y	Base Salt Covered. Water transfer from Schneider off. Pond Dry.
07/11/2011	2-4	E	0.0					>3.4	Y	Base Salt Covered. Water transfer from Schneider off. Pond Dry.
07/18/2011	0-2	S	0.0	0.0	TLTM	34.8	9.8	3.2	Y	Base Salt Covered. Water transfer from Schneider ON
07/27/2011	Calm		0.0	0.0	TLTM	20.5	9.8	3.1	Y	Base Salt Covered. Water transfer from Schneider off.
08/01/2011	2-4	S	0.0	0.0	TLTM	29.0	9.6	3.1	Y	Base Salt Covered. Water transfer from Schneider off.
08/08/2011	5-10	S	0.0	0.0	TLTM	27.6	9.9	3.2	Y	Base Salt Covered. Water transfer from Schneider off.
08/15/2011	6-11	S	0.0	0.0	TLTM	38.8	10.7	>3.3	Y	Base Salt Covered. Water transfer from Schneider off.
08/23/2011	5-8	S	0.0					>3.4	Y	Base Salt Covered. Water transfer from Schneider off. Pond Dry.
08/31/2011	6-13	N	0.0					>3.4	Y	Base Salt Covered. Water transfer from Schneider off. Pond Dry.
09/06/2011	2-4	N	0.0					>3.4	Y	Base Salt Covered. Water transfer from Schneider off. Pond Dry.
09/13/2011	Calm		0.0					>3.4	Y	Base Salt Covered. Water transfer from Schneider off. Pond Dry.
09/19/2011	Calm		0.0					>3.4	Y	Base Salt Covered. Water transfer from Schneider off. Pond Dry.
09/26/2011	4-7	N	0.0					>3.4	Y	Base Salt Covered. Water transfer from Schneider off. Pond Dry.
10/03/2011	0-2	N	0.0					>3.4	Y	Base Salt Covered. Water transfer from Schneider off. Pond Dry.
10/12/2011	2-4	E	0.0					>3.4	Y	Base Salt Covered. Water transfer from Schneider off. Pond Dry.
10/12/2011			'Measure Salt (Sediment) Thickness:			average = 3.9 Inches			Y	
10/18/2011	3-8	SW	0.0	0.0	TLTM	24.0	10.8	>3.3	Y	Base Salt Covered. Water transfer from Schneider off.
10/24/2011	3-8	W	0.0					>3.4	Y	Base Salt Covered. Water transfer from Schneider off. Pond Dry.
11/02/2011	Calm		0.0	0.0	TLTM	23.0	10.9	>3.3	Y	Base Salt Covered. Water transfer from Schneider off.
11/10/2011	4-6	S	0.0	0.0	TLTM	11.0	10.4	>3.3	Y	Base Salt Covered. Water transfer from Schneider off.
11/22/2011	0-1	E	0.0	0.0	TLTM	9.1	9.5	3.3	Y	Base Salt Covered. Water transfer from Schneider off.
11/15/2011	Calm		0.0	0.0	TLTM	5.5	10.5	>3.3	Y	Base Salt Covered. Water transfer from Schneider off.
11/22/2011	0-1	E	0.0	0.0	TLTM	3.0	9.0	>3.3	Y	Base Salt Covered. Water transfer from Schneider off.
12/02/2011	5-10	E	0.0	0.0	TLTM	0.0	8.5	>3.3	Y	Base Salt Covered. Water transfer from Schneider off.
12/07/2011	0-1	S	0.0	0.0	TLTM	1.6	9.0	>3.3	Y	Base Salt Covered. Water transfer from Schneider off.
12/15/2011	1-3	SE	0.0	0.0	TLTM	0.9	8.0	>3.3	Y	Base Salt Covered. Water transfer from Schneider off.
12/19/2011	4-7	S	0.0	0.0	TLTM	3.2	8.7	>3.3	Y	Base Salt Covered. Water transfer from Schneider off.
12/27/2011	3-5	SW	0.0	0.0	TLTM	3.1	8.8	3.3	Y	Base Salt Covered. Water transfer from Schneider off.

BP - America Production Company
Cahn Waste Management Facility
Leak Detection - Monthly Insepection Field Data Summary

SW / 4, Section 28, T 32 N, R 10 W, N.M.P.M
San Juan County, New Mexico

REVISED DATE: JANUARY 6, 2012 (JCB)

BLAGG ENGINEERING, INC.

	SW SUMP				SE SUMP			
INITIAL DATE	DISSOLVED SULFIDE ppm	DISSOLVED OXYGEN ppm	TEMP. celcius	pH	DISSOLVED SULFIDE ppm	DISSOLVED OXYGEN ppm	TEMP. celcius	pH
01/04/11	0.0	0.85	6.4	9.0	0.0	1.93	6.1	9.0
02/02/11	0.0	2.66	5.3	9.1	0.0	3.19	5.8	9.0
03/01/11	0.0	0.90	3.0	8.9	0.0	4.60	3.4	9.0
04/04/11	0.0	3.64	8.1	8.4	0.0	4.70	8.4	8.6
05/04/11	0.0	1.96	11.0	9.1	0.0	3.08	11.0	9.2
06/01/11	0.0	1.00	13.8	9.1	0.0	1.97	14.2	9.1
07/11/11	0.0	1.18	23.5	9.0	0.0	0.94	24.0	9.1
08/01/11	0.0	0.48	25.1	9.1	0.0	1.11	25.6	9.1
09/06/11	0.0	0.37	21.3	9.3	0.0	1.44	21.0	9.0
10/03/11	0.0	0.55	19.0	10.2	0.0	1.06	19.2	10.6
11/02/11	0.0	2.16	13.6	10.0	0.0	3.06	13.4	10.3
12/02/11	0.0	0.28	9.3	9.3	0.0	3.10	8.8	9.2