

554805



Sandia National Laboratories

Operated for the U.S. Department of

Energy by

Sandia Corporation

Carlsbad, New Mexico 88220

date: January 19, 2011

to: Records Center

from: Patricia Johnson, SNL Contractor

subject: Memo of Correction
2010 Calculated Densities

A review of the data included in the 2010 Calculated Densities memo submittal (dated January 12, 2011) resulted in the following errors being discovered and corrected:

1. An error in the Troll installation depth for monitoring well H-12 has been corrected and details are provided following:
 - The Troll installation depth was listed as 820.0 ft BTOC and should have been 826.4 ft BTOC.
 - Page 113 of LTM-15 is included in the 2010 Calculated Densities memo submittal (dated January 12, 2011) and confirms the total depth of the well at 826.4 ft BTOC; the depth at which the Troll was inadvertently installed due to well caving/collapsing issues.
 - The calculated density for H-12 included in the 2010 Calculated Densities memo submittal (dated January 12, 2011) was 1.124; the corrected calculated density is 1.105.

2. An error in the Troll installation depth for monitoring well H-3b2 has been corrected and details are provided following:
 - The Troll installation depth was listed as 670.6 ft BTOC and should have been 672.7 ft BTOC.
 - Page 112 of LTM-15 is included in the 2010 Calculated Densities memo submittal (dated January 12, 2011) and confirms the total depth of the well at 672.7 ft BTOC; the depth at which the Troll was inadvertently installed due to well caving/collapsing issues.
 - The calculated density for H-3b2 included in the 2010 Calculated Densities memo submittal (dated January 12, 2011) was 1.048; the corrected calculated density is 1.041.

WIPP: TD: 1.4.2.3: TD: QAL: RECERT: 554738
541153 1/24/11 RH

Information Only

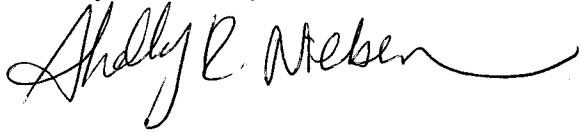
3. An error in the filename referenced in Item 2 (*Identification/Listing of Input, Input sources, and Output*) of the 2010 Calculated Densities memo (dated January 12, 2011) has been corrected:

- Excel spreadsheet including the data – 2009 Calc Densities.xls, *should read*
- Excel spreadsheet including the data – 2010 Calc Densities.xls

The following documents are included as attachments to this Memo of Correction:

- 2010 Calc Densities.xls (Excel spreadsheet print-out)
- 2010 Calc Densities Formulas.xls (Excel spreadsheet print-out)
- H-3b2 (Worksheet 8 in Excel spreadsheet – print-out)
- H-12 (Worksheet 16 in Excel spreadsheet – print-out)

Shelly Nielsen, QA, concurs with the above corrections.

A handwritten signature in black ink, appearing to read "Shelly E. Nielsen", with a long, sweeping underline.

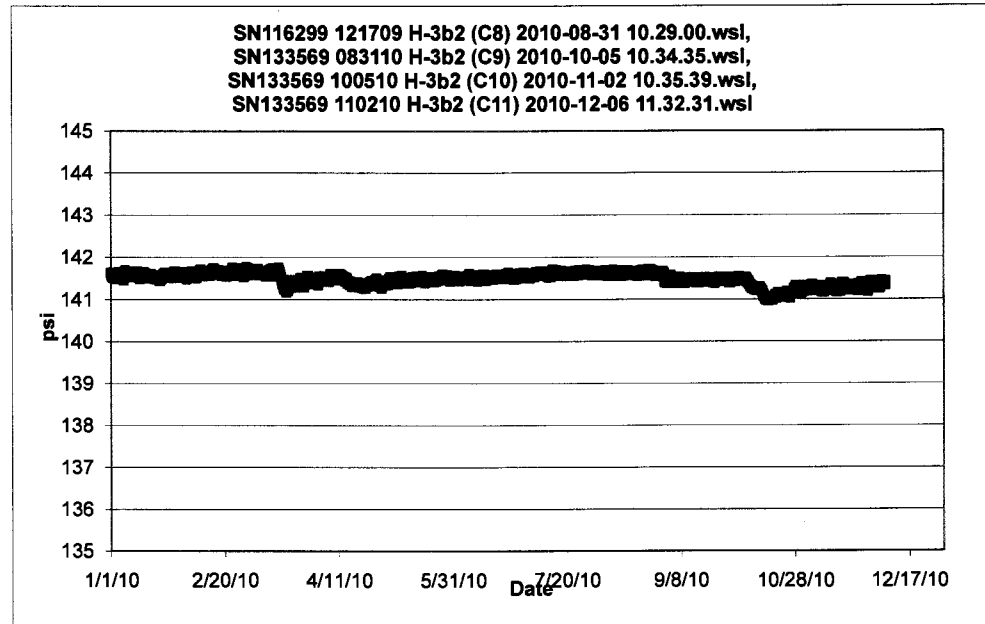
Information Only

H-3b2 Culebra Troll Install. Z (ft BTOC) = 672.68

Troll files - SN116299 121709 H-3b2 (C8) 2010-08-31 10.29.00.wsl, SN133569 083110 H-3b2 (C9) 2010-10-05 10.34.35.wsl, SN133569 100510 H-3b2 (C10) 2010-11-02 10.35.39.wsl, SN133569 110210 H-3b2 (C11) 2010-12-06 11.32.31.wsl

Date/Time	WL (psi)	DTW (ft BTOC)
1/1/2010 0:00	141.61	
1/1/2010 1:00	141.638	
1/1/2010 2:00	141.625	
1/1/2010 3:00	141.578	
1/1/2010 4:00	141.569	
1/1/2010 5:00	141.558	
1/1/2010 6:00	141.589	
1/1/2010 7:00	141.577	
1/1/2010 8:00	141.544	
1/1/2010 9:00	141.59	
1/1/2010 10:00	141.563	
1/1/2010 11:00	141.566	
1/1/2010 12:00	141.535	
1/1/2010 13:00	141.562	
1/1/2010 14:00	141.522	
1/1/2010 15:00	141.516	
1/1/2010 16:00	141.512	
1/1/2010 17:00	141.537	
1/1/2010 18:00	141.531	
1/1/2010 19:00	141.528	
1/1/2010 20:00	141.537	
1/1/2010 21:00	141.555	
1/1/2010 22:00	141.565	
1/1/2010 23:00	141.548	
1/2/2010 0:00	141.527	
1/2/2010 1:00	141.553	
1/2/2010 2:00	141.516	
1/2/2010 3:00	141.528	
1/2/2010 4:00	141.525	
1/2/2010 5:00	141.558	
1/2/2010 6:00	141.518	
1/2/2010 7:00	141.53	
1/2/2010 8:00	141.563	
1/2/2010 9:00	141.538	
1/2/2010 10:00	141.55	
1/2/2010 11:00	141.537	
1/2/2010 12:00	141.524	
1/2/2010 13:00	141.489	
1/2/2010 14:00	141.52	
1/2/2010 15:00	141.491	
1/2/2010 16:00	141.479	
1/2/2010 17:00	141.521	
1/2/2010 18:00	141.505	
1/2/2010 19:00	141.503	
1/2/2010 20:00	141.509	
1/2/2010 21:00	141.524	
1/2/2010 22:00	141.535	
1/2/2010 23:00	141.532	
1/3/2010 0:00	141.541	
1/3/2010 1:00	141.543	
1/3/2010 2:00	141.535	
1/3/2010 3:00	141.538	
1/3/2010 4:00	141.544	
1/3/2010 5:00	141.56	
1/3/2010 6:00	141.577	

Date/Time	PSI	DTW (ft BTOC)	DTW Source	Troll Depth (ft BTOC)	Baro psi	Calc Dens	Average
6/2/2010 10:19	141.495	387.58	S	672.68	12.918	1.040	1.041
6/8/2010 8:20	141.512	387.79	W	672.68	13.049	1.040	
7/6/2010 10:55	141.597	387.58	S	672.68	13.014	1.040	
7/13/2010 15:15	141.71	387.54	W	672.68	12.947	1.042	
8/3/2010 10:02	141.641	387.61	S	672.68	13.085	1.040	
8/11/2010 14:07	141.647	387.65	W	672.68	12.995	1.041	



H-12 Culebra Troll Install. Z (ft BTOC) = 826.4
 Troll files - SN149041 092309 H-12 (C19) 2010-07-07 08.44.41.wsl, SN102920 070810 H-12 (C20) 2010-12-06 13.27.04.wsl

Date/Time WL (psi) DTW (ft BTOC)

Date/Time	WL (psi)	DTW (ft BTOC)
1/1/2010 0:00	190.666	
1/1/2010 1:00	190.608	
1/1/2010 2:00	190.652	
1/1/2010 3:00	190.643	
1/1/2010 4:00	190.642	
1/1/2010 5:00	190.627	
1/1/2010 6:00	190.634	
1/1/2010 7:00	190.561	
1/1/2010 8:00	190.612	
1/1/2010 9:00	190.618	
1/1/2010 10:00	190.611	
1/1/2010 11:00	190.566	
1/1/2010 12:00	190.596	
1/1/2010 13:00	190.551	
1/1/2010 14:00	190.558	
1/1/2010 15:00	190.498	
1/1/2010 16:00	190.527	
1/1/2010 17:00	190.503	
1/1/2010 18:00	190.554	
1/1/2010 19:00	190.558	
1/1/2010 20:00	190.545	
1/1/2010 21:00	190.524	
1/1/2010 22:00	190.575	
1/1/2010 23:00	190.512	
1/2/2010 0:00	190.552	
1/2/2010 1:00	190.498	
1/2/2010 2:00	190.492	
1/2/2010 3:00	190.496	
1/2/2010 4:00	190.53	
1/2/2010 5:00	190.539	
1/2/2010 6:00	190.532	
1/2/2010 7:00	190.479	
1/2/2010 8:00	190.541	
1/2/2010 9:00	190.539	
1/2/2010 10:00	190.526	
1/2/2010 11:00	190.521	
1/2/2010 12:00	190.5	
1/2/2010 13:00	190.504	
1/2/2010 14:00	190.468	
1/2/2010 15:00	190.415	
1/2/2010 16:00	190.483	
1/2/2010 17:00	190.462	
1/2/2010 18:00	190.476	
1/2/2010 19:00	190.435	
1/2/2010 20:00	190.481	
1/2/2010 21:00	190.489	
1/2/2010 22:00	190.498	
1/2/2010 23:00	190.449	
1/3/2010 0:00	190.48	
1/3/2010 1:00	190.501	
1/3/2010 2:00	190.496	
1/3/2010 3:00	190.506	
1/3/2010 4:00	190.524	
1/3/2010 5:00	190.537	
1/3/2010 6:00	190.561	
1/3/2010 7:00	190.569	

Date/Time	PSI	DTW (ft BTOC)	DTW Source	Troll Depth (ft BTOC)	Baro psi	Calc Dens	Average
6/2/2010 12:39	190.693	455.85	S	826.4	12.897	1.107	1.105
6/7/2010 13:52	190.808	455.98	W	826.4	13.05	1.107	
7/7/2010 8:42	190.761	456.01	S	826.4	13.032	1.107	
7/8/2010 13:07	190.35	455.71	S	826.4	13.065	1.103	
7/13/2010 11:18	190.183	456.07	W	826.4	12.966	1.104	
8/4/2010 9:53	190.14	456.12	S	826.4	13.051	1.103	
8/11/2010 12:42	190.118	456.23	W	826.4	13.011	1.104	

