

Richard Powals

From: Tom Athans <tathans@heliconholdings.com>
Sent: Wednesday, October 22, 2014 1:13 PM
To: 'Batka, Allan'
Cc: 'Perenchio, Lisa'; 'McDonald, Jeffrey'; 'Sofocles Papas'; 'Rick Powals'; jfrost@envgeotech.com
Subject: RE: Auto Shutoff Demonstration
Attachments: APT2014-10222014103702.pdf

Allan,

Please see the attached APT results from MDEQ, inclusive of the Automatic Shutdown Demonstration.

A formal report will be sent to EPA. However, I wanted to get this to you right away.

Call me if you have any questions.

Regards,

Tom Athans
313-282-8584

From: Batka, Allan [mailto:batka.allan@epa.gov]
Sent: Tuesday, October 21, 2014 7:42 AM
To: Tom Athans
Cc: Perenchio, Lisa; McDonald, Jeffrey
Subject: Re: Auto Shutoff Demonstration

Yes, if there is no data backup then please have MDEQ witness and make note of the test results.

thank you
Allan Batka

From: Tom Athans <tathans@heliconholdings.com>
Sent: Monday, October 20, 2014 12:02 PM
To: Batka, Allan
Subject: Auto Shutoff Demonstration

Allan,

Apparently our system computer is still not operative. So there is no way to generate a computerized report on the Auto Shutoff Demonstration. Will documentation from an eye witness account from the DEQ suffice? As you recall, last year's test was solely an eye witness test as well.

Regards,

Tom Athans
Vice President
Helicon Holdings

28470 Citrin Drive
Romulus, Michigan 48174
(734) 946-1000 Office
(734) 946-1002 Fax



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY - OFFICE OF GEOLOGICAL SURVEY
ANNULAR PRESSURE TEST

By authority of Part 615 or Part 625 of Act 451 PA 1994, as amended.
 Non-submission and/or falsification of this information may result in fines and/or imprisonment.

Permit Number M452 MI-163-1W-C0007	
Well name & No. EDS 1-12	
Surface location SW 1/4 of NW 1/4 of SE 1/4, Section 12 T03S R09E	
Name and address of permittee Environmental Disposal Systems 28470 Citrin Drive Romulus, MI 48174	Township Romulus
	County Wayne
Well type Part 615 <input type="checkbox"/> Secondary recovery <input type="checkbox"/> Brine disposal Part 625 <input checked="" type="checkbox"/> Waste disposal <input type="checkbox"/> Solution mining	
Date of test 21 October 2014	Casing 7" at 4080 feet
Tubing 4 1/2 inch Gbughos	
Type of gauge AAE7EK T-150-T/C PG-3000	Packer type/model GPS Model 12
Packer depth 4066 Feet	
Inch face psi range 2000 psi 23339	
New gauge <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Type of non-corrosive liquid in the annulus Diesel Fuel & Brine
If no, enter date of test calibration 10 March 2014	Maximum allowed injection pressure 765 psi
Average rate during injection VA	

TEST DATA

Time	Annulus	Pressure readings (psig)	
		tubing	Annulus
9:15	916		
9:25	914		
9:35	913		
9:45	912		
9:55	911		
10:05	910		
10:15	910		

Comments
*Well demonstrated mechanical integrity.
 witnessed successful test of surging shut off differential pressure of 150 psi.*

Certification if witnessed by DEQ representative:

Signature of DEQ employee *[Signature]* Date **21 October 2014**

Certification if not witnessed by DEQ representative: "I state that I am authorized by said owner. This report was prepared under my supervision and direction. The facts stated herein are true, accurate and complete to the best of my knowledge."

Signature _____ Date _____

MAIL TO: OFFICE OF GEOLOGICAL SURVEY
 MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
 PO BOX 30258
 LANSING MI 48909-7756



ANNULAR PRESSURE TEST

By authority of Part 615 or Part 625 of Act 451 PA 1994, as amended. Non-submission and/or falsification of this information may result in fines and/or imprisonment.

Name and address of permittee Environmental Disposal Systems 28470 Citrin Drive Romulus, MI 48174		Permit Number M453 MI-163-1W-C0008	
Date of test 21 October 2014		Well name & No. EDS 2-12	
Type of gauge PG 3000 4.0951 inch face psi range 3000 psi		Surface location SW 1/4 of NW 1/4 of SE 1/4, Section 12 T 03S R 09E	
New gauge <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No if no, enter date of test calibration 10 March 2014		Township County Romulus Wayne	
Average rate during injection VA		Well type Part 615 <input type="checkbox"/> Secondary recovery <input type="checkbox"/> Brine disposal Part 625 <input checked="" type="checkbox"/> Waste disposal <input type="checkbox"/> Solution mining	
		Casing 7" at 3983 feet	Tubing 1 1/2 inch Fiberglass
		Packer type/model GPS Model 12	Packer depth 3960 feet
		Type of non-corrosive liquid in the annulus Diesel Fuel & Brine	
		Maximum allowed injection pressure 765 psi	

TEST DATA

Time	Pressure readings (psig)		Time	Pressure readings (psig)	
	Annulus	tubing		Annulus	tubing
9:50	874				
10:00	880				
10:10	875				
10:20	871				
10:30	867				
10:40	863				
10:50	860				

Comments: well demonstrated mechanical integrity witnessed successful test w/ emergency shut off. Differential pressure of 1500 psi

Certification if witnessed by DEQ representative: Signature of DEQ employee [Signature] Date 21 October 2014

Certification if not witnessed by DEQ representative: "I state that I am authorized by said owner. This report was prepared under my supervision and direction. The facts stated herein are true, accurate and complete to the best of my knowledge." Signature _____ Date _____

MAIL TO: OFFICE OF GEOLOGICAL SURVEY MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30266 LANSING MI 48909-7756