

**From:** [McGill, Andrea](#)  
**To:** [Price, Susan](#)  
**Subject:** FW: Catalyst Energy Proposed Disposal Well  
**Date:** Thursday, December 14, 2023 3:59:30 PM  
**Attachments:** [RE External 581 ON-1 Evidence of Plugging.msg](#)

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**Andrea C. McGill, P.G.** | Licensed Professional Geologist

*She/her/hers*

Department of Environmental Protection | District Oil and Gas Operations

Northwest District Office

230 Chestnut Street | Meadville, PA 16335

Phone: 814.332.6145 | Fax: 814.332.6121

[www.dep.pa.gov](http://www.dep.pa.gov)

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**From:** Wurst, Marshall <mawurst@pa.gov>  
**Sent:** Monday, August 28, 2023 9:03 AM  
**To:** McGill, Andrea <anmcgill@pa.gov>  
**Subject:** RE: Catalyst Energy Proposed Disposal Well

Hi Andrea,

The casing and cementing design of the 580-1 well appears to be sufficient to protect the fresh groundwater and contain all fluids within the wellbore and producing horizon. Calculated top of cement on each casing string using the depths provided on the well record, are as follows:

16" conductor: 31'-driven/sanded in

11 ¾" surface: 426'-282sx, cemented to surface, returns indicated on record.

8 5/8" intermediate: 2504'-650sx, sufficient volume to cement to surface. (20% excess is 647sx.)

4 ½" production: 5396'- 385sx, estimated TOC is 3402'. Actual TOC will be determined with CBL at a later date.

I also attached a recent email to Catalyst concerning one of the EPA's permit requirements regarding the status of a nearby believed-to-be-plugged well(083-40667, Lot 581 ON-1). EPA has stated that they will not permit injection until the well status reflects as plugged in the DEP database. I'm not sure if this applies to our permitting process or not, but thought it may be something to consider. If you would like to discuss this further, we could set up a call.

If you need anything else, please let me know.

Thanks,

Marshall

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**From:** McGill, Andrea <[anmcgill@pa.gov](mailto:anmcgill@pa.gov)>  
**Sent:** Thursday, August 24, 2023 11:29 AM  
**To:** Wurst, Marshall <[mawurst@pa.gov](mailto:mawurst@pa.gov)>  
**Subject:** RE: Catalyst Energy Proposed Disposal Well

Good morning Marshall,

Tom Donohue has given me the ok on your correspondence and documentation for the MIA review, thank you.

*Tom has asked if you could also address whether the casing and cementing is sufficient by reviewing the Well record, if possible. I have attached the application again for your review (the well record is on page 31).*

Please let me know if you have any questions.

Thanks,  
Andrea

**Andrea C. McGill, P.G.** | Licensed Professional Geologist  
*She/her/hers*  
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**From:** Wurst, Marshall <[mawurst@pa.gov](mailto:mawurst@pa.gov)>  
**Sent:** Thursday, August 10, 2023 12:29 PM  
**To:** McGill, Andrea <[anmcgill@pa.gov](mailto:anmcgill@pa.gov)>  
**Subject:** Catalyst Energy Proposed Disposal Well

Andrea,

Attached is my inspection report for the Lot 580-1 well, conducted earlier this morning. With the current condition of the well, I see no reason as to why our permit review process cannot continue.

The surface equipment of the well head is in good condition, and the production casing pressure was verified at 100 p.s.i. EPA-required MIT testing may reveal conditions that cannot be determined at this time, so I will try to have Department staff present during these testing procedures as well.

If you need any further information, please let me know.

Thanks,

Marshall.

**INSPECTION REPORT ROUTINE  
 INSPECTION**
**DEP USE  
 ONLY**

 Complaint Record  
 No.

 Inspection Record  
 No.  
 3582932

 Enforcement Record  
 No.

DEP Office	Knox Oil & Gas Office		Telephone No.: (814) 797-1191	Permit or Reg. No.:	083-46237		
Address	P.O. Box 669		Fax No.: ----	Project No.: ----	WellPad: ----		
	Knox, PA 16232-0669			Farm Name and Well No.:	LOT 580 580-1		
Operator Name	CATALYST ENERGY INC			County	McKean		
Address	1112 S BRADDOCK AVE PITTSBURGH, PA 15218-1262			Municipality	Keating Township		
	----			Latitude (DD)	41.830586		
OGO No.	OGO-34294	Client ID No.	76535	Longitude (DD)	-78.581740		
Drilling Rig / Type	----						
Facility Type	Single-Well Pad		Producing Formation	ONONF: ONONF - ONONDAGA LIMESTONE			
Other	<input type="checkbox"/> Permit Expired	<input type="checkbox"/> Alt / Meth	<input type="checkbox"/> Annulus Open	<input type="checkbox"/> Conductor Only	Spud Date: 1990-05-11	<input type="checkbox"/> Coal	<input checked="" type="checkbox"/> Non-Coal

Remarks / Violations					
Category	Sub-Category	Inspection Remarks / Violations / Violation Remarks	I	R	V
Location					
Well					
Waste Management					
Other					

WELL INFORMATION			
Well Status: Active	Well Production Status: Shut In	Well Type: Injection	Depth: ft.
Flowback: <input type="checkbox"/> Yes <input type="checkbox"/> No	Stressed Vegetation: <input type="checkbox"/> Yes <input type="checkbox"/> No	Wells on Location:	
Separators: <input type="checkbox"/> Yes <input type="checkbox"/> No	Oil Staining: <input type="checkbox"/> Yes <input type="checkbox"/> No		

Casing	Size	Press (psi)	Volumn (cu ft/d)	Length (ft)	SIPT
1	---- X 11 3/4"	----	----	425	<input type="checkbox"/>
Casing: Surface		Volumn:			
Gas Detected: ----		Gas Concentation: ----% LEL, ----% GAS		Method Used:	Date Calibrated:
2	---- X 8 5/8"	----	----	2504	<input type="checkbox"/>
Casing: Intermediate		Volumn: Shut In			
Gas Detected: ----		Gas Concentation: ----% LEL, ----% GAS		Method Used:	Date Calibrated:
3	---- X 4 1/2"	----	----	----	<input type="checkbox"/>
Casing: Production		Volumn: Shut In			

Cellar Observation					
Water	<input type="checkbox"/> Yes <input type="checkbox"/> No	Below Grade:	Combustible Gas Detected		
Gravel	<input type="checkbox"/> Yes <input type="checkbox"/> No	Below Grade:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unable to check for gas		
Bubbling	<input type="checkbox"/> Yes <input type="checkbox"/> No	Rate:	Gas Concentration: % LEL, % GAS		
			Method Used:	Date Calibrated:	

EQUIPMENT ON LOCATION					
Equipment on Location			Tanks: [ 0 ]		
Dryers:	Drips:	Brine/Oil:	Fresh Water:		
Pumpjacks: 1	Meters:	Flowback:	Consolidation:		
Separators:	Containment:	Propane:	Poly Vent:		
Compressors:		Production:			

RTN Other Data					
H2S Detected	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	ppm	Corrosion: Light	Leaking: No	


Photos Attached	Additional Documents	WQS follow up	Inspection Results
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	NOVIO - No Violations Noted

**Remarks:**

Inspection of well in conjunction with change of use permit application. Operator intends to convert the production well into a waste disposal well. Annual MIA reports since the year 2014 indicate that the production casing shut in pressure has never exceeded 100 p.s.i.

US EPA Class IID permit has been issued. Cement bond log and production casing MIT are required prior to authorization of fluid injection. These procedures are forthcoming. The Department will be present during the procedures to witness the data collection in-person.

Follow up inspections will be conducted as appropriate to ensure compliance and best management practices are utilized.

On Site Representative		DEP Representative	
			
(signature)		(signature)	
(print name)		MARSHALL E WURST, Oil and Gas Inspector Supervisor (print name)	
<b>Date:</b> 07/12/2023	<b>Time Arrived:</b> 11:52 AM	<b>Time Departed:</b> 01:10 PM	

COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF ENVIRONMENTAL  
 PROTECTION OFFICE OF OIL AND GAS  
**INSPECTION REPORT ROUTINE  
 INSPECTION**
**DEP USE  
ONLY**Inspection Record  
No.  
3598563Complaint Record  
No.Enforcement Record  
No.

DEP Office	Knox Oil & Gas Office		Telephone No.: (814) 797-1191	Permit or Reg. No.:	083-46237		
Address	P.O. Box 669		Fax No.: ----	Project No.: ----	WellPad: ----		
	Knox, PA 16232-0669			Farm Name and Well No.:	LOT 580 580-1		
Operator Name	CATALYST ENERGY INC			County	McKean		
Address	1112 S BRADDOCK AVE PITTSBURGH, PA 15218-1262			Municipality	Keating Township		
	----			Latitude (DD)	41.830586		
OGO No.	OGO-34294	Client ID No.	76535	Longitude (DD)	-78.581740		
Drilling Rig / Type	----						
Facility Type	Single-Well Pad		Producing Formation	ONONF: ONONF - ONONDAGA LIMESTONE			
Other	<input type="checkbox"/> Permit Expired	<input type="checkbox"/> Alt / Meth	<input type="checkbox"/> Annulus Open	<input type="checkbox"/> Conductor Only	Spud Date: 1990-05-11	<input type="checkbox"/> Coal	<input checked="" type="checkbox"/> Non-Coal

Remarks / Violations					
Category	Sub-Category	Inspection Remarks / Violations / Violation Remarks	I	R	V
Location					
Well					
Waste Management					
Other					

WELL INFORMATION			
Well Status: * Active	Well Production Status: Shut In	Well Type: Gas	Depth: ft.
Flowback: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Stressed Vegetation: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Wells on Location:	
Separators: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Oil Staining: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

Casing	Size	Press (psi)	Volumn (cu ft/d)	Length (ft)	SIPT
1	16" X 11 3/4"	----	----	31	<input type="checkbox"/>
	<b>Casing:</b> Conductor by Surface		<b>Volumn:</b> Venting		
	<b>Gas Detected:</b> No	<b>Gas Concentration:</b> ----% LEL, ----% <b>GAS</b>	<b>Method Used:</b> ----	<b>Date Calibrated:</b> --- -	
2	11 3/4" X 8 5/8"	----	----	426	<input type="checkbox"/>
	<b>Casing:</b> Surface by Intermediate		<b>Volumn:</b> Venting		
	<b>Gas Detected:</b> No	<b>Gas Concentration:</b> ----% LEL, ----% <b>GAS</b>	<b>Method Used:</b>	<b>Date Calibrated:</b>	
3	8 5/8" X 4 1/2"	----	----	2504	<input type="checkbox"/>
	<b>Casing:</b> Intermediate by Production		<b>Volumn:</b> Shut In		
	<b>Gas Detected:</b> --- -	<b>Gas Concentration:</b> ----% LEL, ----% <b>GAS</b>	<b>Method Used:</b>	<b>Date Calibrated:</b>	
4	---- X 4 1/2"	100	----	5396	<input type="checkbox"/>
	<b>Casing:</b> Production		<b>Volumn:</b> Shut In		
	<b>Gas Detected:</b> --- -	<b>Gas Concentration:</b> ----% LEL, ----% <b>GAS</b>	<b>Method Used:</b>	<b>Date Calibrated:</b>	
5	---- X 2 3/8"	----	----	5396	<input type="checkbox"/>
	<b>Casing:</b> Tubing		<b>Volumn:</b> Shut In		

Cellar Observation					
Water	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Below Grade: 0.5	Combustible Gas Detected		
Gravel	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Below Grade:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unable to check for gas		
Bubbling	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Rate:	Gas Concentration: % LEL, % GAS		
			Method Used:		Date Calibrated:



**INSPECTION REPORT ROUTINE  
 INSPECTION**
**DEP USE  
 ONLY**

 Complaint Record  
 No.

 Inspection Record  
 No.  
 3598563

 Enforcement Record  
 No.

**EQUIPMENT ON LOCATION**

Equipment on Location		Tanks: [ 0 ]	
Dryers:	Drips:	Brine/Oil:	Fresh Water:
Pumpjacks: 1	Meters:	Flowback:	Consolidation:
Separators:	Containment:	Propane:	Poly Vent:
Compressors:		Production:	

**RTN Other Data**

H2S Detected	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	ppm	Corrosion: None	Leaking: No
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Photos Attached	Additional Documents	WQS follow up	Inspection Results
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	NOVIO - No Violations Noted

**Remarks:**

Met onsite with representatives from Catalyst Energy. Production casing pressure was gauged and a reading of 100 p.s.i. was recorded. Well head has been reconditioned recently. Integrity of wellhead appears to be mechanically sound at this time. No fluid or gas leaks are observed at any connections of the wellhead equipment. At this time, the condition of the well is sufficient to allow the Department's permit review process to continue.

Further inspections will be conducted when EPA-required MIT is conducted.



v1.2.13

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION OFFICE OF OIL AND GAS


**INSPECTION REPORT ROUTINE  
INSPECTION**

**DEP USE  
ONLY**

Complaint Record  
No.

Inspection Record  
No.  
3598563

Enforcement Record  
No.

On Site Representative		DEP Representative	
			
(signature)		(signature)	
(print name)		MARSHALL E WURST, Oil and Gas Inspector Supervisor (print name)	
Date: 08/10/2023	Time Arrived: 11:51 AM	Time Departed: 12:21 PM	