

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Wednesday, July 12, 2017 WELL WORK PERMIT Vertical / Partial Plug

EQUITRANS, L. P. 625 LIBERTY AVENUE SUITE 1700

PITTSBURGH, PA 152220000

Re: Permit approval for GSW 5470 47-095-00446-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: GSW 5470 Farm Name: ORR, ESTA - AGENT

U.S. WELL NUMBER: 47-095-00446-00-00

Vertical / Partial Plug

Date Issued: 7/12/2017

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1) Date	e May	12	,	2017	
2) Ope:	rator	's			
Wel.	l No.	605470			
3)API	Well	No.	47-095	- 00446	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

4)	Well Type: Oil/ Gas \underline{X} / Liqui	d injection/ W	aste disposal/
	(If "Gas, Production or Un	derground storage X	
5)	Location: Elevation 807	Watershed Pratt Run	1
	District McElroy	County_Tyler	Quadrangle West Union NE 4.3
6)	Well Operator Equitrans, L.P.	7) Designated Agent	Justin Macken
	Address 625 Liberty Ave Suite 1700		625 Liberty Ave Suite 1700
	Pittsburgh, PA 15222-0000		Pittsburgh, PA 15222-0000
8)	Oil and Gas Inspector to be notified Name Justin Snyder Derek Hought Address 200 Florence P.O. Box 85	Name_ To Be [
	Lumberport WV 26388 Smithville	Address	
	Work Order: The work order for the man		well is as follows:
			well is as follows:
			well is as follows: RECEIVED Office of Oil and Gas
			RECEIVED
			RECEIVED Office of Oil and Gas
Not		dures.	RECEIVED Office of Oil and Gas JUN 1 6 2017 WV Department of Environmental Protection

PARTIAL

Page OF STORAGE WELL 5470 IN SHIRLEY STORAGE

2017

Plugback Procedure

Partial Plugging-Removing tubing and completing well to one storage horizon (See attachment-Well 5470 (Current) and Well 5470 (After) Schematics)

Notify State Inspector, Derek Haught 304-206-7613. 24 hours prior to commencing operations.

SITE PREPARATION

Field reconnaissance

Upgrade existing well sites to accommodate service rig and ancillary equipment if necessary

Install all necessary erosion control measures spelled out in approved E&S Plan

FIELD WORK

Kill well and annulus with weighted fluid

Move in and rig up service rig and ancillary equipment

Weld bell nipple onto 3.5" tubing

Install new master gate valve and annular BOP on 3.5" tubing

Install bell collar and lifting sub on 1.5" tubing

Use service rig to lift 1.5" tubing and release slips in casing head

Release 3.5" X 1.5" tension packer

Pull 1.5" tubing and packer

Move in and rig up wireline unit

Run Gamma Ray correlation log and check TD

Run flux leakage surveillance logging tool

Trip in with cast iron bridge plug and set at 1824'

Rig down and move off wireline unit

Place 15' of Class A cement on top of plug from 1824' to 1809' with dump bailer on sand line

Wait on cement 8 hours

Check cement top with sand line

Swab and bail fluid out of well

Remove BOP

Rig down and move off service rig

Place well back into service

PLUGGING PROCEDURE WILL COMPLY WITH THE WVDEP CODE REQUIREMENTS

SITE RECLAMATION

Reclaim access road and well site

PERMITTING

Submit final plugging affidavit

DAH 6.8m

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WV Department of Environmental Protection 7/14/2017

Well 5470 (OBS)

Final Schematics

Shirley Storage Field

Well Name:

Kenneth C. Orr

API No :

47-095-00446

Lease No .:

25813

Location:

McElroy Dist., Tyler Co. 7/8/10 TD 1917'

Drilled: Drilled Deeper:

10/24/11 DDTD 2506'

Storage:

07/16/73

Repaired & CO:

7/16/73 RDTD 2475'

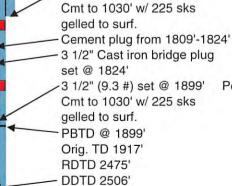
PBTD 1790' 7/16/73

PBTD 1766' 9/17/75

Redrilled:

RDTD 1899' 9/26/89

* Presumed weights - exact weight unknown!



5 1/2" (#) set @ 1742'

TOC @ 1030' est.

9 5/8" (#) set @ 1264' Cmt to surf w/ 730 sks.

Pbg. Coal

816'-822'

Big Lime 1682' - 1738'

Keener

1774'-1789' Big Injun

Sand

1792' - 1910'

GEL

Perfs: 1775'-1790' Keener

1829'-1844' Middle Big Injun

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WV 10-741114/2011 Environmental Protection

Well 5470 (WTF)

Current Schematics

Shirley Storage Field

Well Name:

Kenneth C. Orr 47-095-00446

API No.: Lease No.:

25813

Location:

McElroy Dist., Tyler Co.

Drilled:

7/8/10 TD 1917' 10/24/11 DDTD 2506'

Drilled Deeper: Storage:

07/16/73

Repaired & CO:

7/16/73 RDTD 2475'

PBTD 1790' 7/16/73

PBTD 1766' 9/17/75

Redrilled:

RDTD 1899' 9/26/89

* Presumed weights - exact weight unknown!

DM14 68-17

5 1/2" (#) set @ 1742' Cmt to 1030' w/ 225 sks gelled to surf. 1 1/2" (2.75 #) set @ 1843'

TOC @ 1030' est.

9 5/8" (#) set @ 1264' Cmt to surf w/ 730 sks.

3 1/2"x 1 1/2" Tension Packer

set @ 1808'

Pbg. Coal 816'-822'

Big Lime 1682' - 1738'

Keener

1774'-1789' Big Injun

Sand

1792' - 1910'

3 1/2" (9.3 #) set @ 1899'

Cmt to 1030' w/ 225 sks

gelled to surf. PBTD @ 1899' Orig. TD 1917'

RDTD 2475' DDTD 2506' Perfs: 1775'-1790' Keener

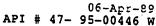
1829'-1844' Middle Big Injun

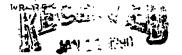
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WO7-ph4/2047 Environmental Protection

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State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

10.16 1. J. S. C. DEPARTMENT MELL Operator's Report of Well Work

Farm name: ORR, ESTA, AGENT

Operator Well No.: GSW 5470

LOCATION:

Elevation: 807.00

Quadrangle: SHIRLEY

District: MCELROY Latitude: 8300 Fe

District: MCELROY County: TYLER
Latitude: 8300 Feet South of 39 Deg. 25Min. 0
Longitude 11220 Feet West of 80 Deg. 45 Min. 0

Company: EQUITRANS, INC. 4955 STEUBENVILLE PIKE | Casing | Used in | Left PITTSBURGH, PA 15205-4955 Agent: GARY A. HOY, DIVISION MGR. Inspector: GLEN P. ROBINSON Permit Issued: 04/06/89 Well work Commenced: 5/4/89 9/26/89 Well work Completed: Verbal Plugging Permission granted on: Rotary XX Cable Total Depth (feet) 1899 Fresh water depths (ft)

	1 0000 111	nerc	Cement	1
Tubing	Drilling	 in Well	Fill Up Cu. Ft.	
Size		 [1264'	
9 5/8"		1264'	to Surface	<u> </u>
5 1/2"		 1742'	1742 1030	! !
3 1/2"		1899'	1899 1030	
1 1/2"		1843'	on packer set 01808	
		!		

OPEN FLOW DATA

Coal Depths (ft):

Salt water depths (ft)

Is coal being mined in area (Y/N)?

Producing formation Big Injun	Pay zone depth (ft) 1772'
Gas: Initial open flow 330 MCF/d Oil	: Initial open flow Bhiza
or open flow between initial	and final tests Hours
psig (sur	face pressure) after 24 Hours
Second producing formation Big Injun	Part mane double (51) 10001
Gas: Initial open flow 184 MCF/d Oil	Pay zone depth (ft) 1823' : Initial open flow Bbl/d
randa open trom w.b./4	
The or open flow between initial	and final tests Hours
Static rock Pressure 130 psig (sur	face pressure) after 24 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For:	EQUITRANS	AINE.		
	By: Date://	Llup	PRESIDENT	PK
		0 0	'JAN 1 6 5575	

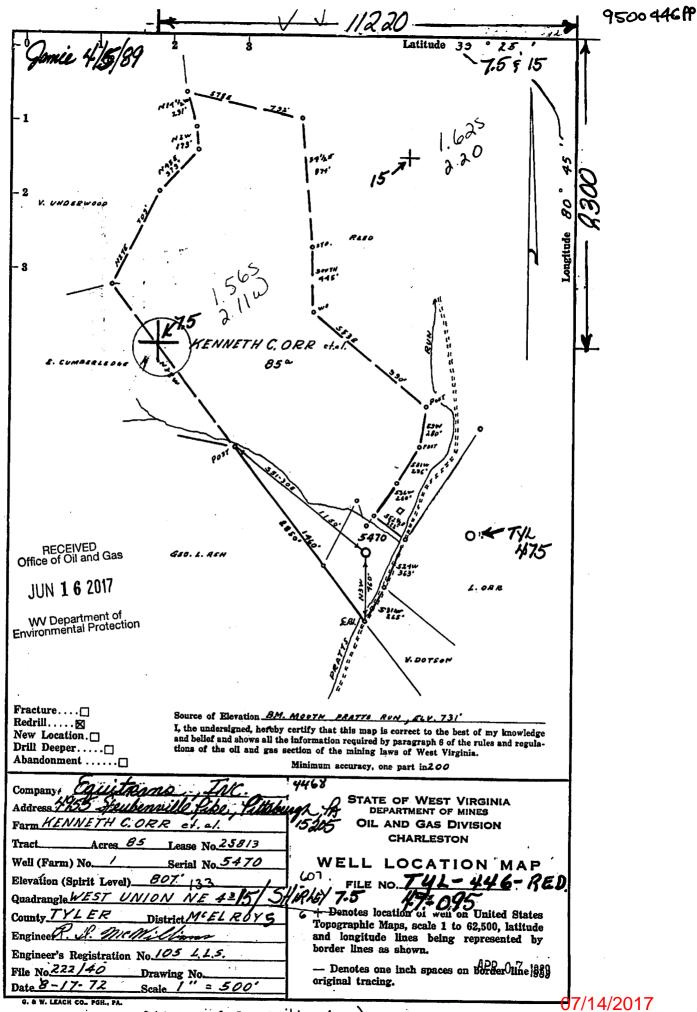
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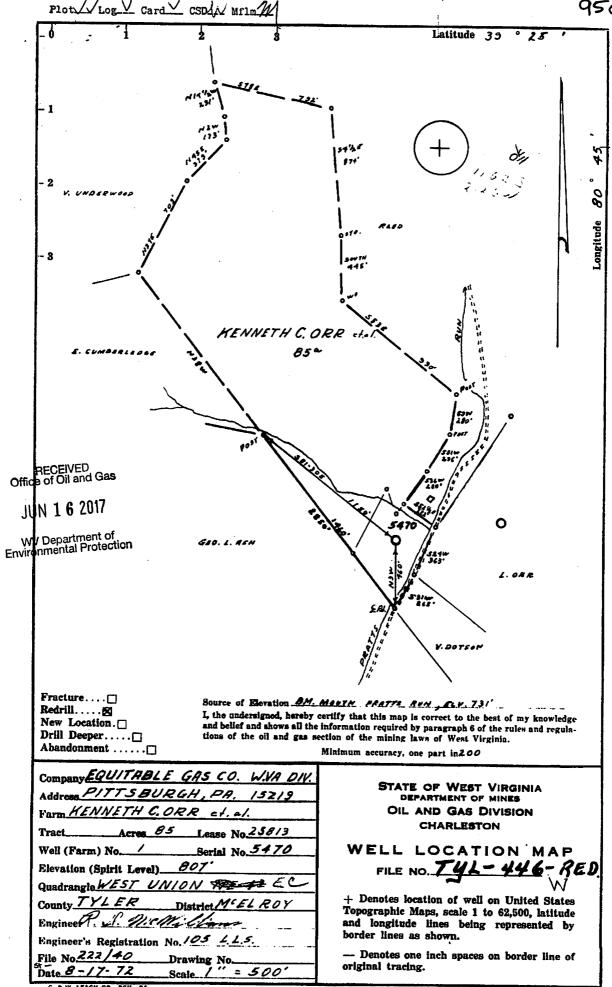
FORMATION	TOP FEET	BOTTOM FER	ET REMARKS
PITTSBURGH COAL	436	439	. 5
GAS SAND	944	988	•
SALT SAND	1062	1507	
MAXTON SAND	1545	1564	
LITTLE LIME	1648	1670	
BIG LIME	1682	1738	
BIG INJUN	1742		PERFORATED INTERVALS:
			1775 to 1790
			&
T.D.	1899		1829 to 1844



DEPARTMENT OF MACRGY

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STATE OF WEST VIRGINIA DEPARTMENT OF MINES

DEFT. OF WINEY.

Oil and Gas Division

Quadrangle West Union NE 4.3 Permit No. TYI-446-RED	RECORD		Rotary XY Cable Recycling Water Flo Disposal .	Clas Comb odStorage_XX
Company Equitable Gas 15219 Address 420 Blvd. of Allies, Pgh.Pa Farm Kenneth C. Orr Acres 85	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Pratt Run Well No. 5470 Elev. 807 District McElory County Tyler	Size 20-16			
	Cond.			_
The surface of tract is owned in fee by	13-10"	-		-
Esta Orr, Agent Address Alma, W. Va. 26320	9 5/8	1264	1264	730 sks. to
	8 5/8			surface.
Mineral rights are owned by Same as surface	7			
Address	5 1/2	1742	1742	
Drilling Commenced 11-13-72	4 1/2		-	1030, gel
Drilling Completed 7-16-73	3	-		surface
Initial open flowbbls.	The second secon	-		
Final production cu. ft. per daybbls. Well openhrs. before test RP.	Liners Used	-		
Well treatment details:	Attach copy of			
Coal was encountered at 436-439 For	cet	Inches		
Coal was encountered at 436-439 For	Sali V	Inches	,	
Coal was encountered at 436-439 For Fresh water Fresh water Fresh Big Injan S	Sali V	Inches	,	* Remarks

(over)

JUN 1 6 2017

WV Department of Environmental Protection

^{*} Indicates Electric Log tops in the remarks section.

00446

WW-4A Revised 6-07 RECEIVED Office of Oil and Gas

JUN 1 6 2017

WV Department of Environmental Protection

1)	Date:	5/12/2017	
2)	Operator 605470	s's Well Number	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

3) API Well No.: 47 -

4) Surface Owner(s) to be served	: 5) ((a) Coal Operato	or
(a) Name Lloyd D. Talkington and	d Donna J. Talkington	_ / Name	N/A
Address 5812 Interboro Ave		Address	
Pittsburgh, PA 15207-	2229		
(b) Name		(b) Coal O	wner(s) with Declaration
Address		Name	Same as Surface Owner(s)
		Address	
(c) Name		Name	-
Address		Address	
3) Inspector Justin Snyder Der	K Haught	− (c) Coal L∈	essee with Declaration
	XX 85	Name	N/A
Lumberport WV 26386	Smithville, wy	Address	·
Telephone -681 313 6995/304	206-7613	101 10	
(00.	1010	_	
accompanying documents for a permit Protection, with respect to the well at	it to plug and abandon a v the location described or een mailed by registered	well with the Chief of t n the attached Applicat or certified mail or de	Il operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environmental tion and depicted on the attached Form WW-6. Copies of this Notice, elivered by hand to the person(s) named above (or by publication in
	Well Operator	Equitrans, L.P.	
OMMONWEALTH OF PENNSYLVANIA	By:	Justin Macken	Just A. lad.
NOTARIAL SEAL Morgan Smith, Notary Public	Its:	VP Gas Systems Pla	
City of Pittsburgh, Allegheny County	Address	625 Liberty Avenue	
y Commission Expires Aug. 20, 2019		Pittsburgh, PA 1522	2
BER, PENNSYLVANIA ASSOCIATION OF NOTARIES	Telephone	412-395-5554; Email	il: jmacken@eqt.com
Subscribed and sworn before me t		ay of May	Notary Public
My Commission Expires Augu	st 20, 2019		
Oil and Gas Privacy Notice			

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at deprivacyoffier@wv.gov.

WW-9 (5/16)

API Number 47 -	095	_00446	
Operator's Well No	605	470	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_Equitrans, L.P.	OP Code 5547235
Watershed (HUC 10)_Pratt Run	Quadrangle West Union NE 4.3
Do you anticipate using more than 5,000 bbls of water to con	mplete the proposed well work? Yes No
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: N/A	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected pro-	vide a completed form WW-9-GPP)
Underground Injection (UIC Per Reuse (at API Number	mit Number
Off Site Disposal (Supply form V	VW-9 for disposal location)
Other (Explain	
Will closed loop systembe used? If so, describe: N/A	DAH
Drilling medium anticipated for this well (vertical and horizon	ontal)? Air, freshwater, oil based, etc. N/A
-If oil based, what type? Synthetic, petroleum, etc.	
Additives to be used in drilling medium? N/A	
Drill cuttings disposal method? Leave in pit, landfill, remove	
-If left in pit and plan to solidify what medium will	
-Landfill or offsite name/permit number? (See Attac	
-Landini or offsite name/permit number? 1996 Auto	in many
	d Gas of any load of drill cuttings or associated waste rejected at any led within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violations or regulation can lead to enforcement action. I certify under penalty of law that I have personal application form and all attachments thereto and that, based on the control of the contr	old conditions of the GENERAL WATER POLLUTION PERMIT issued Virginia Department of Environmental Protection. I understand that the of any term or condition of the general permit and/or other applicable law ally examined and am familiar with the information submitted on this on my inquiry of those individuals immediately responsible for obtaining trate, and complete. I am aware that there are significant penalties for er imprisonment.
Company Official Signature	RECEIVED
Company Official (Typed Name) Justin Macken	Office of Oil and Gas
Company Official Title VP Gas Systems Planning	JUN 1 6 2017
222	WV Department of Environmental Protection
Subscribed and sworn before me thisday of	May , 20 M
Many J	Notary Public
1 August 20 2018	COMMONWEALTH OF PENNSYLVANIA
My commission expires August 20, 2019	MOTARIAL SEAL Morgan Smith, Notary Groving 4/2017 City of Pittsburgh, Allegheny County My Commission Expires Aug. 20, 2019 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

			Operator's	Well No. 605470
roposed Re	evegetation Treatment: Acres D	Disturbed less than one (1) acre	Preveg etation	nH N/A
		e or to correct to pH 6 1/2		
	rtilizer type 10-20-20 or equiv			
	rtilizer amount 600	lbs/acre		
Mι	ulch_ Hay or Straw	Tons/acre		
		Seed Mixtures		
	Temporary		Pern	anent
	ed Type lbs/acre		Seed Type	lbs/acre
N/A		Meado	w Mix	40lbs per acre
rovided). I L, W), and	f water from the pit will be land area in acres, of the land applica			
rovided). I L, W), and	f water from the pit will be land	applied, provide water volume, in ation area.		
provided). I L, W), and Photocopied	f water from the pit will be land area in acres, of the land applica	applied, provide water volume, in ation area.		
Provided). I. L., W), and Photocopied	f water from the pit will be land area in acres, of the land applicad section of involved 7.5' topogra	applied, provide water volume, in ation area. raphic sheet.		
Provided). I. L., W), and Photocopied	f water from the pit will be land area in acres, of the land applicad section of involved 7.5' topograved by:	applied, provide water volume, in ation area. raphic sheet.		
Plan Approv	f water from the pit will be land area in acres, of the land applicad section of involved 7.5' topograved by:	applied, provide water volume, in ation area. raphic sheet.		
Photocopied Plan Approv	f water from the pit will be land area in acres, of the land applicad section of involved 7.5' topograved by:	applied, provide water volume, in ation area. raphic sheet.		
Photocopied Plan Approv	f water from the pit will be land area in acres, of the land applicad section of involved 7.5' topograved by:	applied, provide water volume, in ation area. raphic sheet.		
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Photocopied Plan Approv	f water from the pit will be land area in acres, of the land applicad section of involved 7.5' topograved by:	applied, provide water volume, in ation area. raphic sheet.		
provided). I (L, W), and Photocopied Plan Approv Comments:	f water from the pit will be land area in acres, of the land applicad section of involved 7.5' topograved by:	applied, provide water volume, in ation area. Taphic sheet.		

Attachment WW-9 Landfill or Offsite Disposal Name/Permit Number

Region	Facility Type	Facility Location Name	Street	City	Suis	Zip Code
Marellus (1 vice			10555 Veto Road	Belpre	OH	45714
	Disposal Well	D - I (SWIW #7)	3549 Warner Road	Fowler	OH	44418
		Goff (SWIW #27) 1	1 7 2 2 0 EGS(1 ING 110-00	Norwich	OH	43767
	Disposal Well	Eva Jean Root Wolf 1 and 4, Wolf 2,	1	Newton Falls	OH	14144
	Disposal Well		100 to 010 to 1000 Tool Tool Tool Tool Tool Tool Tool T	Newton Falls	OH	44144
	Disposal Well	John G. Delores Blazek 2	5700 Allyn Road	Hiram	OH	44234
		Belden & Blake Corporation 2 - 1050	8000 Edison Street	Louisville	OH	44641
		Plum Creek 1	4285 Karg Industrial Parkway	Kent	OH	44240
		Ed Lyons (Genet)	7700 Lincoln Street	East Canton	OH	44730

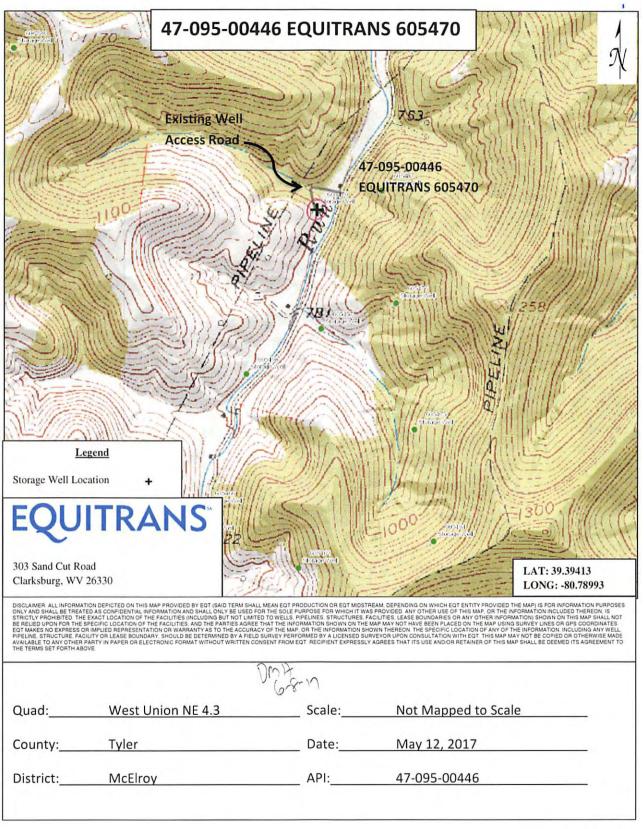
List of Ohio SWDs 6.13.2013

Wells	County	Township	State	Permit #s	Entity
Belden & Blake #2	Stark	Marlboro	Ohio	34-151-2-3420	Heckmann Water Resources (CVR), Inc.
Blazek #2	Portage	Hiram	Ohio	34-133-2-0525	Heckmann Water Resources (CVR), Inc.
Lyons #1	Stark	Osnaburg	Ohio	34-151-2-1198	Heckmann Water Resources (CVR), Inc.
Pander R & P #1	Trumbull	Newton	Ohio	34-155-2-3795	Heckmann Water Resources (CVR), Inc.
Pander R & P #2	Trumbull	Newton	Ohio	34-155-2-3794	Heckmann Water Resources (CVR), Inc.
Plum Creek #1	Portage	Brimfield	Ohio	34-133-2-3614	Heckmann Water Resources (CVR), Inc.
Eva Jean Root Wolf#1	Trumbull	Newton	Ohio	34-155-2-1893	Heckmann Water Resources (CVR), Inc.
Wolf#2	Trumbull	Newton	Ohio	34-155-2-1894	Heckmann Water Resources (CVR), Inc.
Eva Jean Root Wolf #4	Trumbuli	Newton	Ohio	34-155-2-3203	Heckmann Water Resources (CVR), Inc.
D-1 (AnnaRock)	Trumbull	Fowler	Ohio	34-155-2-2403	Heckmann Water Resources (CVR), Inc.
Nichols #1-A Sいいせ	Washington	Dunham	Ohio	34-167-2-3862	Heckmann Water Resources (CVR), Inc.
Goff #1	Muskingum	Union	Qhio PA	34-119-2-8776 2608201	Heckmann Water Resources (CVR), Inc.

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WV Department of Environmental Protection 07/14/2017



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WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL L	OCATION FORM: GPS		
_{API:} 47-095-00446	WELL NO.: 6	05470	
FARM NAME: Orr, Esta-	-Agent		
RESPONSIBLE PARTY NAMI	_{E:} Equitrans, L.P.		
COUNTY: Tyler	DISTRICT: MC	Elroy	
QUADRANGLE: West Un			
105 cars of the control of the contr	D. Talkington and Donna	J. Talkington	
	D. Talkington and Donna J. T		
UTM GPS NORTHING: 4360		*	
	38 GPS ELEVAT	ION: 245.9736m (807 ft)	
above well. The Office of Oil and the following requirements: 1. Datum: NAD 1983, Zo height above mean sea 2. Accuracy to Datum – 3. Data Collection Method	od:	es that do not meet	
	Processed Differential	WV Department of Environmental Protection	
Mapping Grade GPS X : P	l-Time Differential X	Environmental Protection	
	Real-Time Differential		
I the undersigned, hereby certify t		knowledge and	
Signature	Cano man III	Date	