

### west virginia department of environmental protection

Office of Oil and Gas 601 57<sup>th</sup> Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Monday, September 10, 2018 WELL WORK PLUGGING PERMIT Vertical Plugging

EQUITRANS, L. P. 625 LIBERTY AVE. SUITE 1700

PITTSBURGH`, PA 15222

Re: Permit approval for 6190 47-049-00232-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: 6190

Farm Name: BEATY, L. D., ETUX

U.S. WELL NUMBER: 47-049-00232-00-00

Vertical Plugging
Date Issued: 9/10/2018

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. Failure to adhere to the specified permit conditions may result in enforcement action.

## **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.

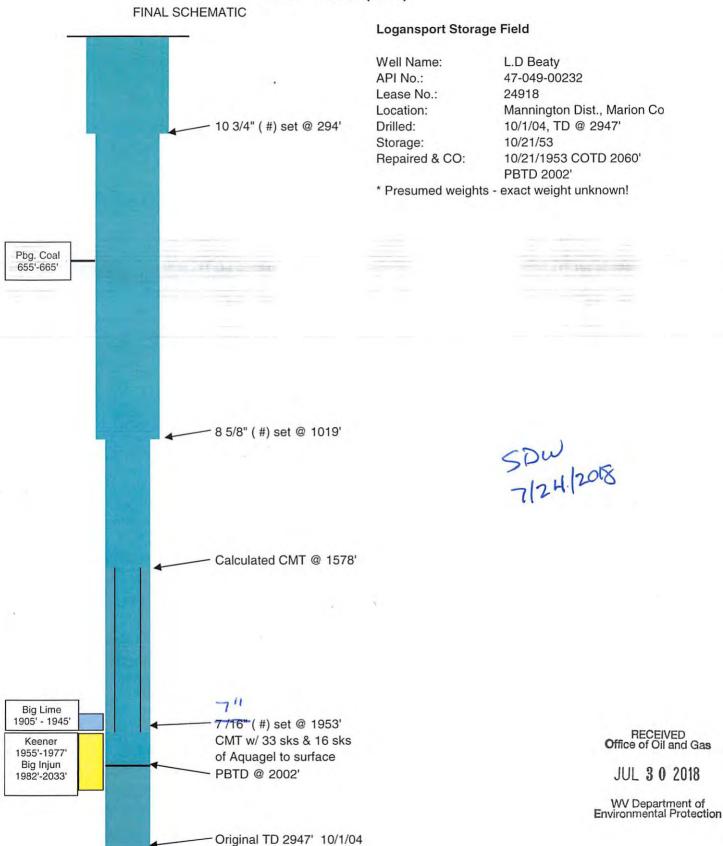
WW-4B Rev. 2/01

1) Date July	19		,	20 18	
2) Operator	's				
Well No.	606190				
3) API Well	No.	47-049		- 00232	

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

11	APPLICATION FOR A PE	
4)		id injection/ Waste disposal/
	(If "Gas, Production or Un	nderground storage X) Deep/ Shallow
5)	Location: Elevation 997'	Watershed Mannington S/W 4-3
	District Mannington	County Marion Quadrangle Glover Gap
	2.1.7.2	4.00.30.0
6)	Well Operator Equitrans, L.P.	7) Designated Agent Brian Hall
	Address 625 Liberty Ave Suite 1700	Address 303 Sand Cut Rd
	Pittsburgh, PA 15222	Clarksburg, WV 26301
8)	Oil and Gas Inspector to be notified Name Sam Ward	9) Plugging Contractor  Name To Be Determined
	Address PO Box 2327	Address
	Buckhannon WV 26201	
10)	See attachment for details and proce	nner of plugging this well is as follows:
33.5		edures
77.5		
33.5		edures
33.5		edures  RECEIVED Office of Oil and Gas

## Well 6190 (OBS)



### P&A OF STORAGE WELL 6190 IN LOGANSPORT STORAGE

#### 2018

## Plug and Abandonment Procedure

#### 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

Attempt to blow well down

Dig sump around wellhead

Kill well with fluid

Move in and rig up service rig and ancillary equipment

Weld bell nipple onto 8 5/8" casing

Install annular BOP on 8-5/8" casing

Trip in hole with sand line to check well TD

Trip in with work string and remove any fill up if needed to TD or attainable bottom

Move in and rig up cement pumpers

Pump cement plug 50' above bottom of 7" production casing @1900' (Class A type w/ 10% excess)

Trip work string back out of hole

Wait on cement 8 hours

Move in and rig up wireline

Run bond log on 7" production casing to determine free pipe

Perforate pipe to be left in hole (5 shot clusters every 50 feet)

Cut 7" production casing @ free point

Attempt to pull free 7" production casing

Remove BOP

Move in and rig up wireline

Run bond log on 8-5/8" intermidiate casing to determine free pipe

Perforate pipe to be left in hole (5 shot clusters every 50 feet)

Cut 8 5/8" intermediate casing @ free point

Attempt to pull free 8 5/8" intermediate casing

Move in and rig up cement pumpers

Pump cement plug to bottom of 10 3/4" casing @ 294' (Class A type w/ 10% excess)

Trip work string out of hole

Wait on cement 8 hours

Service rig will attempt to pull 10 3/4" casing

If service rig cannot pull 10 3/4" casing move in and rig up wireline

Perforate pipe to be left in hole (5 shot clusters every 50 feet to a minimum depth of 150')

Move in and rig up cement pumpers

Pump cement plug through tubing and bit to surface (Class A type w/ 10% excess)

Top off cement due to tubing displacement

Install monument and GPS

Rig down and move off service rig

## PLUGGING PROCEDURE WILL COMPLY WITH THE FOLLOWING WVDEP CODE REQUIREMENTS

#### SITE RECLAMATION

Reclaim access road and well site

### PERMITTING

Submit final plugging affidavit

49-002321

50W 7/2018

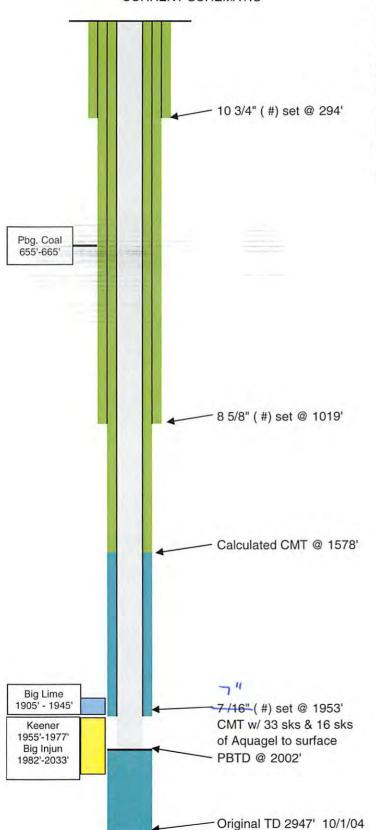
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JUL 3 0 2018

WV Department of Environmental Protection

## Well 6190 (OBS)

## **CURRENT SCHEMATIC**



## Logansport Storage Field

Well Name:

L.D Beaty

API No .:

47-049-00232

Lease No.:

24918

Location:

Mannington Dist., Marion Co

Drilled:

10/1/04, TD @ 2947'

Storage:

10/21/53

Repaired & CO:

10/21/1953 COTD 2060'

PBTD 2002'

\* Presumed weights - exact weight unknown!

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JUL 3 0 2018

WV Department of Environmental Protection



mannington

Clarksburg, West Va.

The surface of tract is owned in fee by Fred Beaty

/10ths Water in

/10ths Merc. In

Color

Hole bridged at 2060 feet.

Stone 2060 - 2036!
8-1/4" Lead Plug 2036 - 2035!
Set 8-1/4" Baker Plug 2021-1/2 1 - Bag Cal-seal 2020 - 2017!
1 - 8-1/4" Baker Plug 1957-1/2 -

This plug driven down

Well Re-drilled to a depth of 2060 feet.

2015

2005

Mineral rights are owned by Fred Beaty

Farm L. D. Beaty et ux

Well No. 6190 District Mannington

R.D.#1

Date Shot With Open Flow .

Volume\_

OiL

Rock Pressure

Fresh water

Salt water

Formation

Cement Plug

1 - 6-5/8"

Present depth ..

Iron

Drilling commenced\_

Drilling completed.

Location (waters) Mann. S/W. 4-3

Company Equitable Gas Company-West Va Div.

## DEPARTMENT OF MINES OIL AND GAS DIVISION

85

9971 I

Inch

\_Inch

feet

bbls., 1st 24 hrs.

Top

2020 feet. 19561

u 6\_5/8"

Marion

Address Mannington, W.Va.

Address Mannington, W. Va.

WELL RECORD Permit No. MAR-232-R

County.

April 22, 1953

October 21, 1953

Hard or Soft

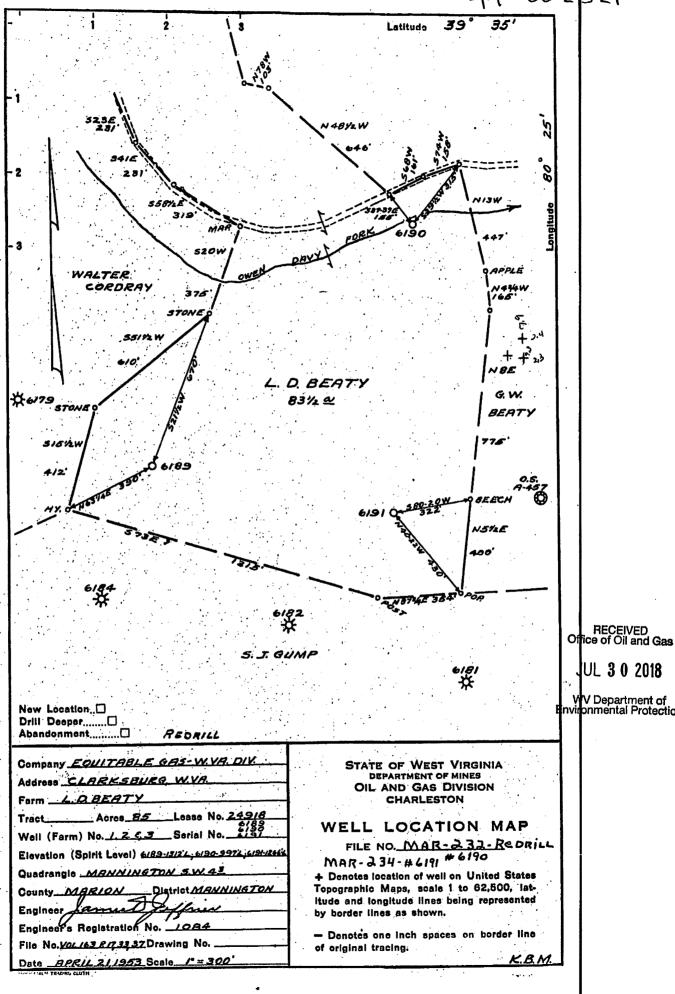
0 20151 20051

20021

20021

1 - 8-1/4" Steel casing shoe on 8-1/4" Casing.

Oil or Gas Well Gas Storage Used in Drilling Casing and Tubing Left in Well Packers Size Kind of Packer. 2941 294 Size of 10191 10191 19531 19531 Depth set 58/16\_ Perf. top. Perf. bottom. Perf. top. Liners Used No. Ft CASING CEMENTED. COAL WAS ENCOUNTERED AT 655 FEET. INCHES INCHES FEET INCHES INCHES INCHES FEÈT Oil, Gas. or Water Depth Found Remarks Bottom 16 Bags Aquagel and 33 bags cement around 6-5/8" Casing. 25 Bags Aquagel between 6-5/8" - 8-1/4" and 10" Casing. RECEIVED Office of Oil and Gas JU4 3 0 2018 WV Department of Environmental Protection



WW-4A Revised 6-07

RECEIVED Office of Oil and Gas

JUL 3 0 2018

July 19, 2018 1) Date: 2) Operator's Well Number

606190

WV Department of Environmental Protection

3) API Well No.: 47 -

00232 049

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

4)	Surface Ow	ner(s) to be served:	5) (a	) Coal Operator	
	(a) Name	Perry R. Thorne and Janice M.	Thorne /	Name	Murray Energy Corporation (Consolidation Coal Company)
	Address	93 Curtisville Rd	/	Address	46226 National Road, St. Clairsville, Ohio 43950
		Mannington, WV 26582			Harrison County Mine (Depth 1032'; Seam-Pittsburgh)
	(b) Name			(b) Coal Own	ner(s) with Declaration
	Address			Name	Perry R. Thorne and Janice M. Thorne
				Address	93 Curtisville Rd, Mannington, WV 26582
					(All Coal except Pittsburgh Seam)
	(c) Name			Name	Consolidation Coal Company
	Address			Address	46226 National Road, St. Clairsville, Ohio 43950
					(Pittsburgh Seam only)
6) ]	nspector	Sam Ward		(c) Coal Less	see with Declaration
	Address	PO Box 2327		Name	Murray Energy Corporation (Consolidation Coal Company)
		Buckhannon, WV 26201		Address	46226 National Road, St. Clairsville, Ohio 43950
	Telephone	304-389-7583			Harrison County Mine (Depth 1032'; Seam-Pittsburgh)
TC	THE PE	RSONS NAMED A	BOVE: you	should have regai	ved this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

	Well Operator	Equitrans, L.P.	Primary Contact:
	By:	Samuel K. Smallwood	Brian Hall
The second secon	Its:	Attorney-in-Fact	NWV Ops Reg Manager
OFFICIAL SEAL	Address	303 Sand Cut Rd	(304) 626-6419
Notary Public, State Oi West Virginia RACHEL WYCKOFF	\$	Clarksburg, WV 26301	BRHall@eqt.com
120 Genesis Boulevard Bridgeport, WV 26330 My Commission Expires March 14, 202		304-626-7999 SSmallwood@eqt.com	I, Attorky-in-tact
Subscribed and sworn before me this	-	my of July 2018	ary Public
My Commission Expires	ch 14 70	22	

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 depprivacyoffier@wv.gov.

WW-9 (5/16)

API Number	47 - 049	_00232	
Operator's W		606190	

# 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) Mannington S/W 4-3	Quadrangle Glover Gap
Do you anticipate using more than 5,000 bbls of water to complete	te 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.? No earthen pit
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a	a completed form WW-9-GPP)
Underground Injection (UIC Permit N	
Reuse (at API Number Off Site Disposal (Supply form WW-	-9 for disposal location)
Other (Explain_	9 for disposal location)
	41-
Will closed loop systembe used? If so, describe: Yes, above gro	ound steel pits connected to mud pump and well
Drilling medium anticipated for this well (vertical and horizontal)	
-If oil based, what type? Synthetic, petroleum, etc. N/A	RECEIVED Office-of Oil and
Additives to be used in drilling medium? N/A	JUL 3 0 20
Drill cuttings disposal method? Leave in pit, landfill, removed of	ffsite, etc. Removed Offsite
-If left in pit and plan to solidify what medium will be us	sed? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? (See Attachmen	nt)
Permittee shall provide written notice to the Office of Oil and Cas West Virginia solid waste facility. The notice shall be provided we where it was properly disposed.	s of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Cas of the West Virgir provisions of the permit are enforceable by law. Violations of any or regulation can lead to enforcement action.  I certify under penalty of law that I have personally eapplication form and all attachments thereto and that, based on my	onditions of the GENERAL WATER POLLUTION PERMIT issued inia Department of Environmental Protection. I understand that the my term or condition of the general permit and/or other applicable law examined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for o btaining and complete. I am aware that there are significant penalties for imprisonment.
Company Official Signature former of formers	
Company Official (Typed Name) Samuel K. Smallwood	OFFICIAL SEAL Notary Public, State Of West Virginia
Company Official Title Attorney-in-Fact	RACHEL WYCKOFF 120 Genesis Boulevard Bridgeport, WV 26330
Subscribed and sworn before me this 23rd day of	July , 20 18
Hache Wycrosse	Notary Public
My commission expires March 14 7022	

Form WW-9

ropose				one (1) acre Preveg etation pH	N/A
	Lime 3	Tons/acre or to	correct to pH	6 1/2	
	Fertilizer type 10	-20-20 or equivalen	nt		
	Fertilizer amount	600	lbs	/acre	
	Mulch_ Hay or S	Straw	Tons/ac	cre	
			Seed	<u>Mixtures</u>	
	Т	`emporary		Pern	nanent
	Seed Type	lbs/acre		Seed Type	lbs/acre
N/A				Meadow Mix	40 lbs per acre
Maps(s provide L, W),	) of road, location, pd). If water from the and area in acres, o	e pit will be land appli f the land application	ed, provide wat area.	tion (unless engineered plans incl er volume, include dimensions (I	
Maps(s provide L, W), Photoco	of road, location, pd). If water from the and area in acres, oppied section of invo	e pit will be land appli	ed, provide wat area.		
Maps(s provide (L, W), Photoco	of road, location, pd). If water from the and area in acres, oppied section of involutional proved by:	e pit will be land appli f the land application	ed, provide wat area. sheet.	er volume, include dimensions (I	
Maps(s provide (L, W), Photoco	of road, location, pd). If water from the and area in acres, oppied section of involutional proved by:	e pit will be land applif the land applif the land application olved 7.5' topographic	ed, provide wat area. sheet.	er volume, include dimensions (I	
Maps(s provide (L, W), Photoco	of road, location, pd). If water from the and area in acres, oppied section of involutional proved by:	e pit will be land applif the land applif the land application olved 7.5' topographic	ed, provide wat area. sheet.	er volume, include dimensions (I	
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provide (L, W), Photoco	of road, location, pd). If water from the and area in acres, oppied section of involutional proved by:	e pit will be land applif the land applif the land application olved 7.5' topographic	ed, provide wat area. sheet.	er volume, include dimensions (I	RECEIVED Office of Oil and

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

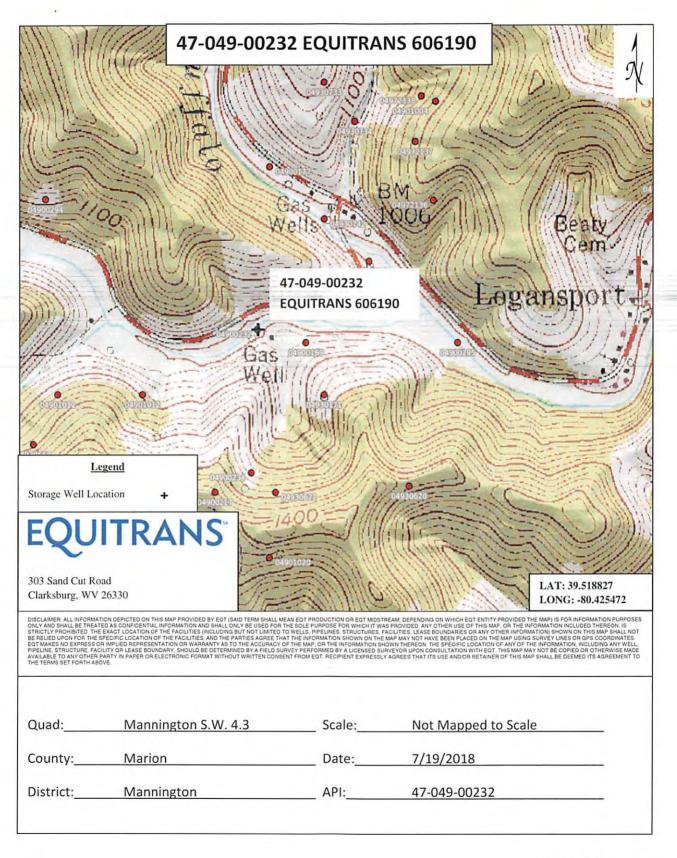
Parine	Facility Type	Facility Location Name	Sincet	City	Suic	Zip Code
Region		Nichols (SWIW #13) 1 - A	10555 Veto Road	Belpre	OH	45714
	KARAMAN II WA		3549 Warner Road	Fowler	OH	44418
9	TO MOTORIAL TO A TO		7520 EEK 1 012 110	Norwich	OH	43767
1 1		Eva Jean Root Wolf I and 4, Wolf 2,		Newton Falls	OH	44444
1 7			10011 01210 110010	Newton Falls	OH	44144
큐		John G. Delores Blazek 2	12 104 1411 11 11000	Hiram	OH	44234
<b>3</b>		Belden & Blake Corneration 2 - 1050	10000 Dayson Dried	Louisville	OH	44641
~		Plum Creek I	4285 Karg Industrial Parkway	Kent	OH	44240
1	Disposition and the second sec		7700 Lincoln Street	East Canton	OH	44730

## List of Ohio SWDs 6.13.2013

<u>Wells</u>	County	Township	State	Permit #s	<b>Entity</b>
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 ≤سرنو±	Washington	Dunham	Ohio	34-167-2-3862	Heckmann Water Resources (CVR), Inc.
Goff #1	Muskingum	Union	Qhio	34-119-2-8776	Heckmann Water Resources (CVR), Inc.

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WW-7 8-30-06



## West Virginia Department of Environmental Protection Office of Oil and Gas

WELLLUCA	
<sub>API</sub> : 47-049-00232	WELL NO.: 606190
FARM NAME: L.D. Beaty	
RESPONSIBLE PARTY NAME: Eq	•
COUNTY: Marion	DISTRICT: Mannington
QUADRANGLE: Mannington	
SURFACE OWNER: Perry R. T	horne and Janice M. Thorne
ROYALTY OWNER: Frank E. N	
UTM GPS NORTHING: 4374511	
	303.8856 (997')  GPS ELEVATION:
	chosen to submit GPS coordinates in lieu of
The Responsible Party named above has operaring a new well location plat for a pabove well. The Office of Oil and Gas withe following requirements:  1. Datum: NAD 1983, Zone: 17 height above mean sea level (1)  2. Accuracy to Datum – 3.05 me  3. Data Collection Method:	chosen to submit GPS coordinates in lieu of lugging permit or assigned API number on the II not accept GPS coordinates that do not meet  North, Coordinate Units: meters, Altitude:  MSL) – meters.  ters
The Responsible Party named above has operaring a new well location plat for a pabove well. The Office of Oil and Gas withe following requirements:  1. Datum: NAD 1983, Zone: 17 height above mean sea level (National Control of Party 1988).  2. Accuracy to Datum – 3.05 meals. Data Collection Method:  Survey grade GPS: Post Process	chosen to submit GPS coordinates in lieu of lugging permit or assigned API number on the II not accept GPS coordinates that do not meet  North, Coordinate Units: meters, Altitude:  MSL) – meters.  ters  sed Differential RECEIVED Office of Oil and Gas
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