



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

Monday, December 04, 2017
WELL WORK PERMIT
Vertical / Plugging

EQUITRANS, L. P.
625 LIBERTY AVENUE SUITE 1700

PITTSBURGH, PA 152220000

Re: Permit approval for 1625
47-103-00830-00-00

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: 1625
Farm Name: HIGGINS
U.S. WELL NUMBER: 47-103-00830-00-00
Vertical / Plugging
Date Issued: 12/4/2017

Promoting a healthy environment.

12/08/2017

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.

47 10300830P
1) Date Aug 21, 20 17
2) Operator's
Well No. 601625
3) API Well No. 47-103 - 00830

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ___ / Gas X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage X) Deep ___ / Shallow ___

5) Location: Elevation 809' Watershed Willey Fork of North Fork Fishing Creek
District Grant County Wetzel Quadrangle Littleton SE, 1 3-4

6) Well Operator Equitrans, L.P. 7) Designated Agent Justin Macken
Address 625 Liberty Ave Suite 1700 Address 625 Liberty Ave Suite 1700
Pittsburgh, PA 15222-0000 Pittsburgh, PA 15222-0000

8) Oil and Gas Inspector to be notified Name Derek Haught
Address P.O. Box 85
Smithville, WV 26178
9) Plugging Contractor Name To Be Determined
Address _____

10) Work Order: The work order for the manner of plugging this well is as follows:
See attachment for details and procedures.

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector [Signature] Date 9-14-17

P&A OF STORAGE WELL 1625 IN MOBLEY STORAGE
2017
Plug and Abandonment Procedure
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
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 5 1/2" casing
Install annular BOP on 5 1/2" casing
Trip in hole with sand line to check well TD
Remove any fill up if needed to TD or attainable bottom
Move in and rig up wireline
Perforate 3 1/2" tubing (5 shot clusters every 50 feet)
Service rig will attempt to pull 2 3/8" tubing
If service rig cannot pull 2 3/8" tubing move in and rig up wireline
Run bond log on 2 3/8" tubing to determine free pipe
Perforate pipe to be left in hole (5 shot clusters every 50 feet)
Jet cut production 2 3/8" tubing at point of free pipe
Pull free 2 3/8" tubing
Move in and rig up cement pumpers
Pump cement plug through tubing and bit to bottom of 5 1/2" casing @ 1705' (Class A type w/ 10% excess)
Trip drill pipe, collars and bit back out of hole
Wait on cement 8 hours
Remove BOP
Service rig will attempt to pull 5 1/2" casing and packer
If service rig cannot pull 5 1/2" casing move in and rig up wireline
Run bond log to determine 5 1/2" casing free pipe
Perforate pipe to be left in hole (5 shot clusters every 50 feet)
Jet cut 5 1/2" casing at point of free pipe
Pull free 5 1/2" casing
Move in and rig up cement pumpers
Pump cement plug through tubing and bit to bottom of 7" casing @ 1292' (Class A type w/ 10% excess)
Trip drill pipe, collars and bit back out of hole
Wait on cement 8 hours

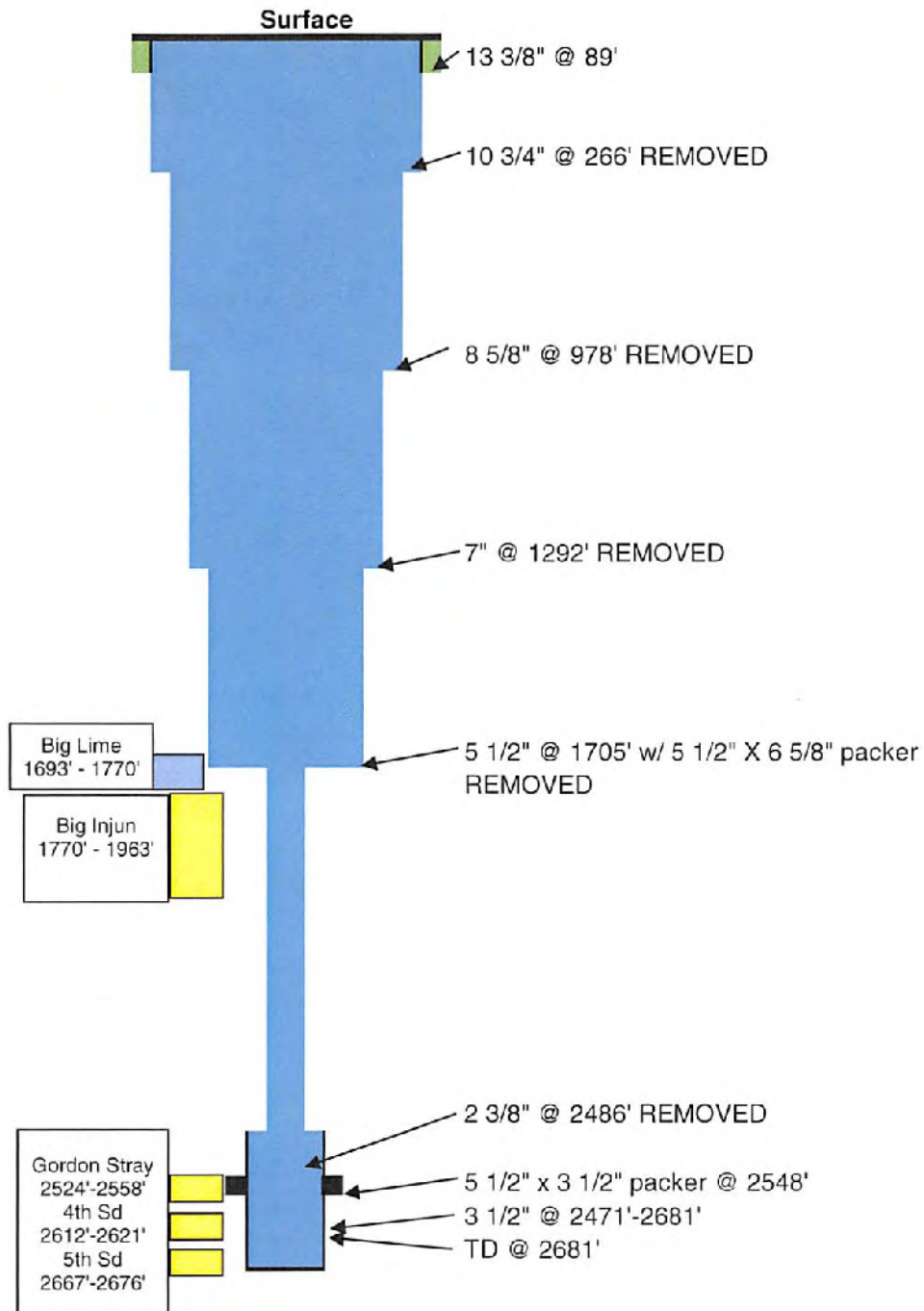
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Service rig will attempt to pull 7" casing
If service rig cannot pull 7" casing move in and rig up wireline
Run bond log to determine 7" casing free pipe
Perforate pipe to be left in hole (5 shot clusters every 50 feet)
Jet cut 7" casing string at point of free pipe
Pull free 7" casing string
Move in and rig up cement pumpers
Pump cement plug through tubing and bit to bottom of 8 5/8" casing @ 978' (Class A type w/ 10% excess)
Trip drill pipe, collars and bit back out of hole
Wait on cement 8 hours
Service rig will attempt to pull 8 5/8" casing
If service rig cannot pull 8 5/8" casing move in and rig up wireline
Run bond log to determine 8 5/8" casing free pipe
Perforate pipe to be left in hole (5 shot clusters every 50 feet)
Jet cut 8 5/8" casing at point of free pipe
Pull free 8 5/8" casing
Move in and rig up cement pumpers
Pump cement plug through tubing and bit to bottom of 10 3/4" casing @ 266' (Class A type w/ 10% excess)
Trip drill pipe, collars and bit back 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
Run bond log to determine 10 3/4" casing free pipe
Perforate pipe to be left in hole (5 shot clusters every 50 feet)
Jet cut 10 3/4" casing at point of free pipe
Pull free 10 3/4" casing
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

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Mobley Field Well # 1625 OBSERVATION WELL (Final Schematic)

4710300830P



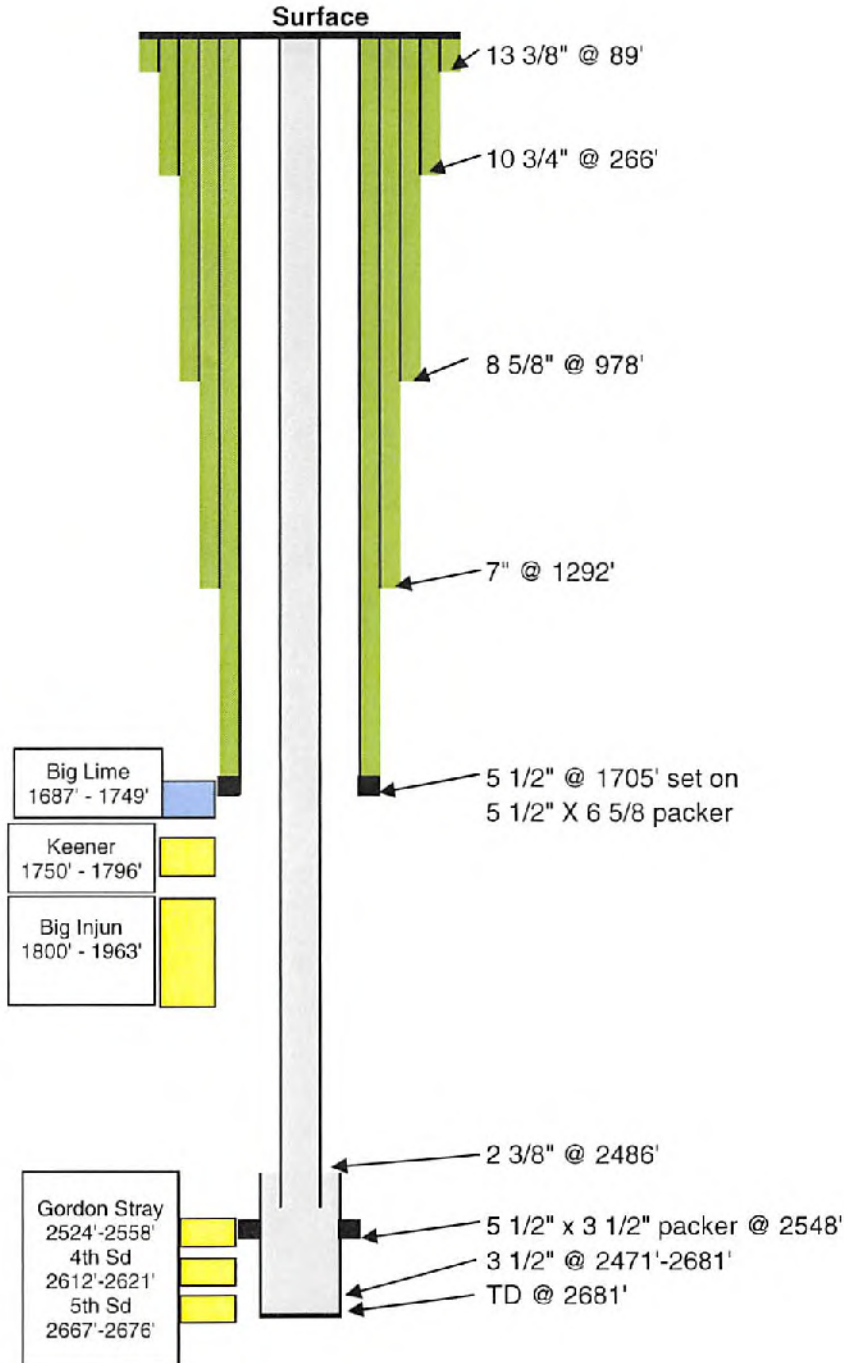
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Mobley Field Well # 1625 OBSERVATION WELL (Current Schematic)



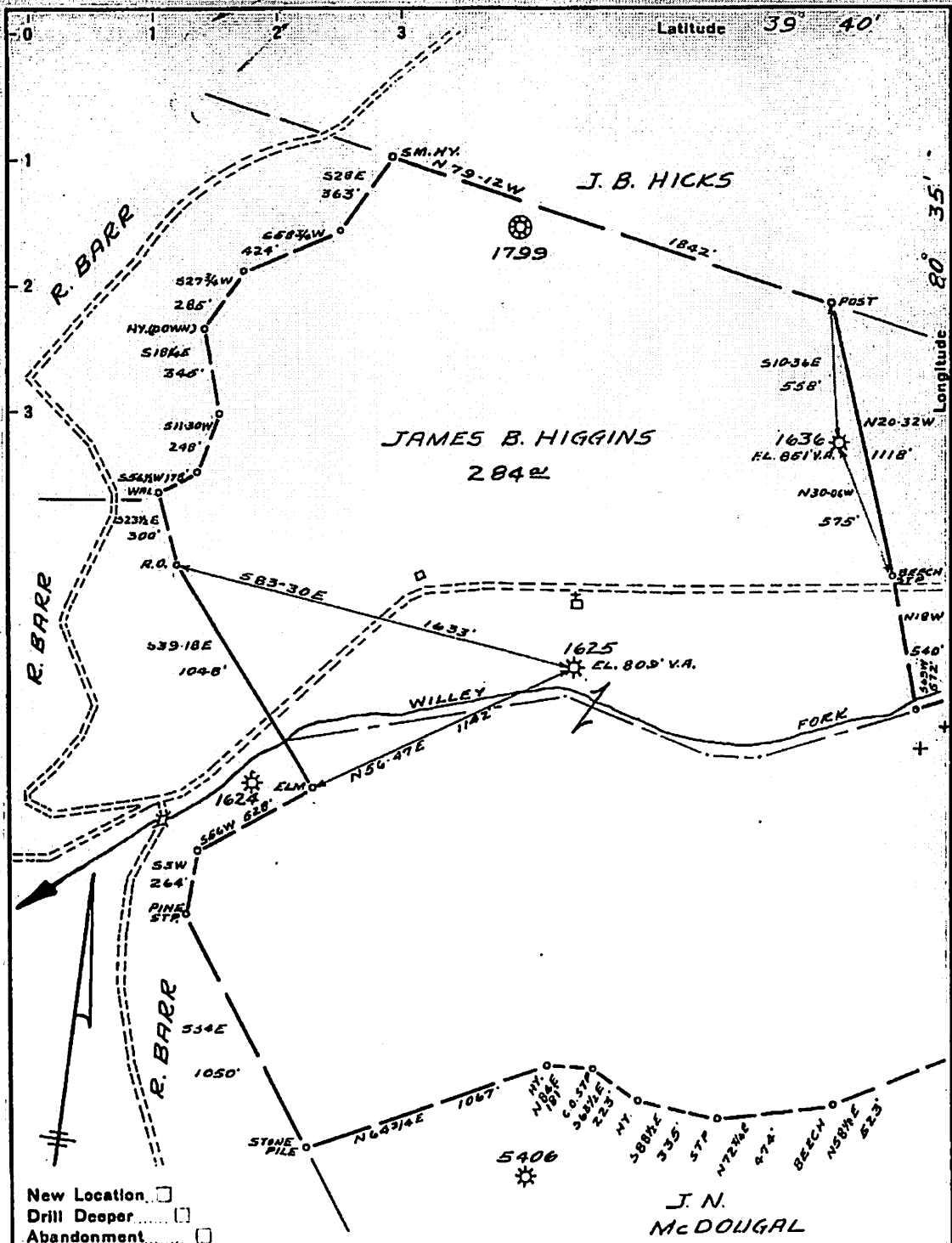
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DATE	READING	LIQUID	SIZE	OPENING	TUBING
2-1-97	81		8"		
9-26-12	53/16		53/16"		
10-5-12	2				

DATE	READING	LIQUID	SIZE	OPENING	TUBING
2-1-97	81		8"		
9-26-12	53/16		53/16"		
10-5-12	2				

DATE	READING	LIQUID	SIZE	OPENING	TUBING
2-1-97	81		8"		
9-26-12	53/16		53/16"		
10-5-12	2				

W/O-M/O NO.	DATE	REASON	COMMENCED	COMPLETED	OR D/D	C/O	VOLUME BEFORE	VOLUME AFTER	ROCK PRESS. BEFORE	ROCK PRESS. AFTER	DATE	AMT.	DEPTH	VOLUME BEFORE	VOLUME AFTER
	7-12-12	DD	9-26-12	2681			7.3	8.1			9-12	2681	2681		
	9-26-12	AO	9-26-12	2681			2681	2681							
	10-5-12	AO	10-5-12	2			2	2							



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Company PITTSBURGH & W.V.A. GAS CO.
 Address CLARKSBURG, W.VA.
 Farm JAMES B. HIGGINS
 Tract _____ Acres 300 Lease No. 3021
 Well (Farm) No. 1E-2 Serial No. 1623
 Elevation (Spirit Level) AS SHOWN
 Quadrangle LITTLETON S.E. 13-4
 County WETZEL District GRANT
 Engineer Kenneth B. Moore
 Engineer's Registration No. _____
 File No. V-118 P-257 Drawing No. _____
 Date JUNE 7, 1948 Scale 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. _____

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

WW-4A
Revised 6-07

1) Date: August 21, 2017
 2) Operator's Well Number
 606125
 3) API Well No.: 47 - 103 - 00830

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Coastal Forest Resources Company</u>	Name <u>See attached sheet</u>
Address <u>PO Box 709</u>	Address _____
<u>Buckhannon, WV 26201-0709</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See attached sheet</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Derek Haught</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 85</u>	Name <u>See attached sheet</u>
<u>Smithville, WV 26178</u>	Address _____
Telephone <u>(304) 206-7613</u>	_____

TO THE PERSONS NAMED ABOVE: You should have received 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
- (2) 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.

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COMMONWEALTH OF PENNSYLVANIA
 NOTARIAL SEAL
 Noelle M. Nuckels, Notary Public
 City of Pittsburgh, Allegheny County
 My Commission Expires Sept. 7, 2020
 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Well Operator Equitrans, L.P.
 By: Justin Macken *Justin A. Macken*
 Its: VP Gas Systems Planning
 Address 625 Liberty Avenue
Pittsburgh, PA 15222
 Telephone 412-395-5554; Email: jmacken@eql.com

WV Department of Environmental Protection

Subscribed and sworn before me this 24 day of AUGUST 2017
Noelle M. Nuckels Notary Public
 My Commission Expires Sept. 2020

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 depprivacyofficer@wv.gov.

12/08/2017

ATTACHMENT WW-4A-5)(a) Coal Operator, (b) Coal Owner(s) with Declaration, (c) Coal Lessee with Declaration**Coal Owners (less Pittsburgh Coal):**

Coastal Forest Resources Co
Fka Coastal Lumber Company
ATTN: Edward G. Kraynok
P.O. Box 709
Buckhannon, WV 26201

Irrevocable Intervivos Trust of Billy Higgins
Frances J & William P. Higgins, Co-Trustees
531 Franklin Terrace
Washington, PA 15301

Deanna Merle Weber
633 Carothers Road
Weirton, WV 26062

Melinda Jo Carpenter
319 Franklin St.
Barnesville, OH 43713

Coal Owners (Pittsburgh Coal):

CNX Land LLC
Attn: Analyst
Engineering & Ops Support Dept. Coal
CNX Center, 1000 Consol Energy Drive
Canonsburg, PA 15317

WPP, LLC
ATTN: George Angus, VP and Regional Manager
5260 Irwin Road
Huntington, WV 25705-3247

Coal Lessee with Declaration:

Consol Mining Company LLC
Fka, Consolidation Coal Company
ATTN: Casey V. Saunders, P.E., Senior Project Engineer
1000 Consol Energy Drive
Cannonsburg, PA 15317

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WW-9
(5/16)

API Number 47 - 103 - 00830
Operator's Well No. 601625

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) Willey Fork of North Fork Fishing Creek Quadrangle Littleton SE, 1 3-4

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

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 completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: Yes, above ground steel pits connected to mud pump and well.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Brine

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed Offsite

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? (See Attachment)

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Justin A. Macken

Company Official (Typed Name) Justin Macken

Company Official Title VP Gas Systems Planning

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Subscribed and sworn before me this 24 day of August, 2017

Noelle M Nuckels

Notary Public COMMONWEALTH OF PENNSYLVANIA

My commission expires Sept-2020

NOTARIAL SEAL
Noelle M. Nuckels, Notary Public
City of Pittsburgh, Allegheny County
My Commission Expires Sept 7, 2020
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Proposed Revegetation Treatment: Acres Disturbed less than one (1) acre Prevegetation pH N/A

Lime 3 Tons/acre or to correct to pH 6 1/2

Fertilizer type ^{10-20-20 or equivalent} _____

Fertilizer amount 600 lbs/acre

Mulch Hay or Straw Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
N/A	-	Meadow Mix	40 lbs per acre

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:

Comments: _____

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Title: Oil + Gas Inspector Date: 9-14-17

Field Reviewed? Yes No

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

4710300830P

Region	Facility Type	Facility Location Name	Street	City	State	Zip Code
Marcellus/Utica	Disposal Well	Nichols (SWIW #13) 1 - A	10555 Veto Road	Belpre	OH	45714
	Disposal Well	D - 1 (SWIW #7)	1549 Warner Road	Fowler	OH	44418
	Disposal Well	Goff (SWIW #27) 1	9350 East Pike Road	Norwich	OH	43767
	Disposal Well	Eva Jean Root Wolf 1 and 4, Wolf 2	5480 State Route 5	Newton Falls	OH	44444
	Disposal Well	Pander R&P (SWIW # 15 & #16) 1 & 2	5310 State Route 5	Newton Falls	OH	44444
	Disposal Well	John G. Dolores Blazek 2	5700 Allyn Road	Hiram	OH	44234
	Disposal Well	Belden & Blake Corporation 2 - 1050	8000 Edison Street	Louisville	OH	44641
	Disposal Well	Plum Creek 1	4285 Karg Industrial Parkway	Kent	OH	44240
	Disposal Well	Ed Lyons (Genet) 1	7700 Lincoln Street	East Canton	OH	44730

List of Ohio SWDs 6.13.2013

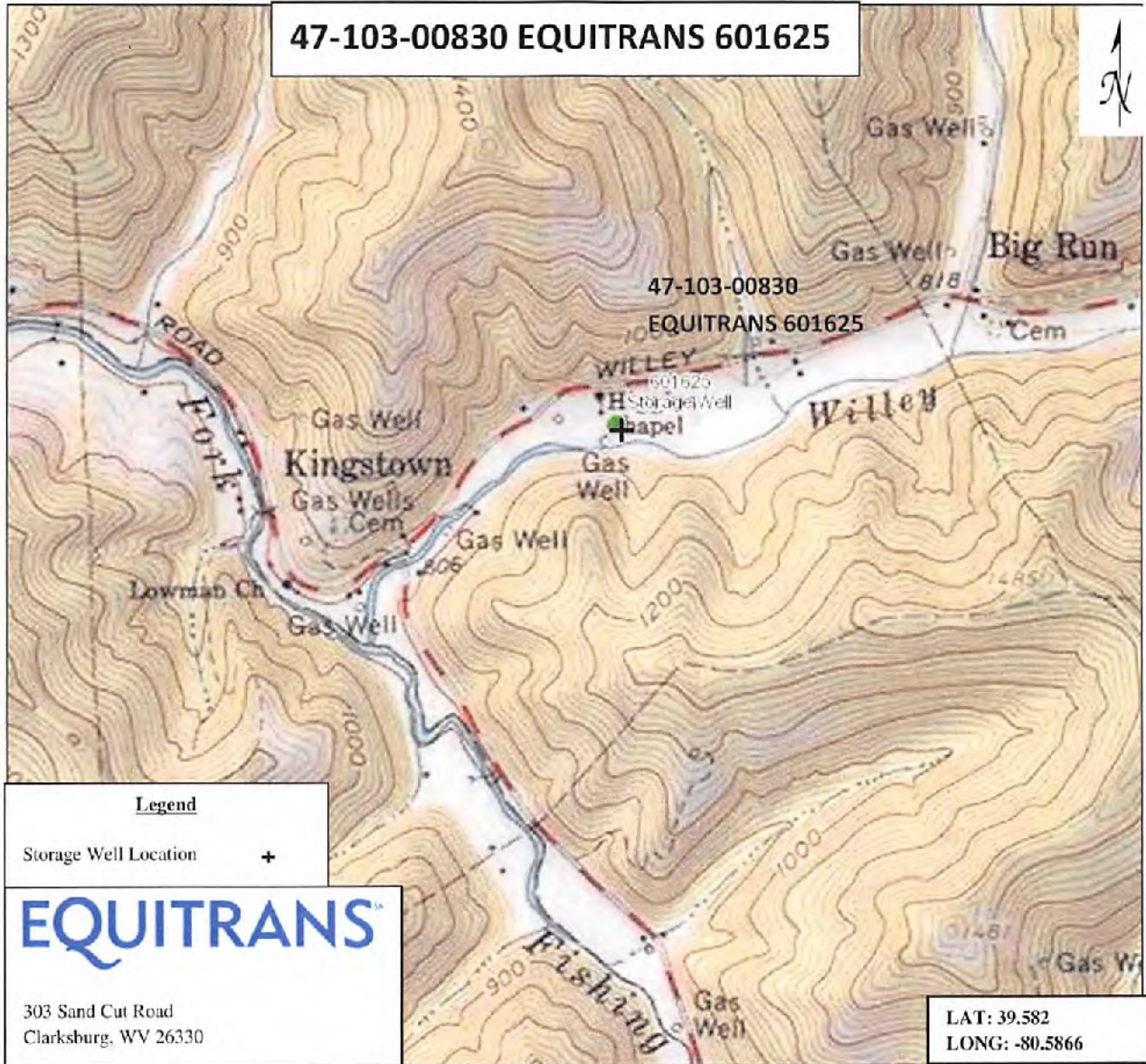
Wells	County	Township	State	Permit #s	Entity
Belden & Blake #2	Stark	Marlboro	Ohio	34-151-2-3420	Heckmann Water Resources (CVR), Inc.
Blazek #2	Portage	Hiram	Ohio	34-133-2-0525	Heckmann Water Resources (CVR), Inc.
Lyons #1	Stark	Osnaburg	Ohio	34-151-2-1198	Heckmann Water Resources (CVR), Inc.
Pander 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	Trumbull	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 SWIW #13	Washington	Dunham	Ohio	34-167-2-3862	Heckmann Water Resources (CVR), Inc.
Goff #1	Muskingum	Union	Ohio	34-119-2-8776	Heckmann Water Resources (CVR), Inc.
Appalachian Water (APP or AWS)	Corneliusville	NA	PA	2808201	

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Quad: Littleton S.E., 1 3-4 Scale: Not Mapped to Scale

County: Wetzel Date: 8/21/2017

District: Grant API: 47-103-00830

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WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-103-00830 WELL NO.: 601625

FARM NAME: Higgins, James B.

RESPONSIBLE PARTY NAME: Equitrans, L.P.

COUNTY: Wetzel DISTRICT: Grant

QUADRANGLE: Littleton SE, 1 3-4

SURFACE OWNER: Coastal Lumber Company

ROYALTY OWNER: James B. Higgins ETAL

UTM GPS NORTHING: 4381446.5926

UTM GPS EASTING: 535501.9806 GPS ELEVATION: 246.5832 meters (809 feet)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- 2. Accuracy to Datum – 3.05 meters
- 3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

- 4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Signature [Handwritten Signature]

Landman III
Title

8-21-17
Date

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