



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

Tuesday, August 29, 2017
WELL WORK PERMIT
Vertical / Re-Work

EQUITRANS, L. P.
625 LIBERTY AVENUE SUITE 1700

PITTSBURGH, PA 152220000

Re: Permit approval for 8217
47-041-04092-00-00

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: 8217
Farm Name: U.S BUREAU OF LAND MGMT
U.S. WELL NUMBER: 47-041-04092-00-00
Vertical / Re-Work
Date Issued: 8/29/2017

Promoting a healthy environment.

09/01/2017

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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. 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.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

4104092 W

WW - 2B
(Rev. 8/10)

OK 0291 + 550 OF 2750

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Equitane LP
625 Liberty Ave Pittsburgh PA 15222

5547235	Lewis	Court House Rural	Roanoke/Crawford NW
Operator ID	County	District	Quadrangle

2) Operator's Well Number: 608217 3) Elevation: 1199.00

4) Well Type: (a) Oil _____ or Gas X
(b) If Gas: Production _____ / Underground Storage X
Deep _____ / Shallow _____

5) Proposed Target Formation(s): Gordon Proposed Target Depth: 2698'
6) Proposed Total Depth: 2698' Feet Formation at Proposed Total Depth: 2604'-2645'
7) Approximate fresh water strata depths: 310
8) Approximate salt water depths: None

9) Approximate coal seam depths: 300

10) Approximate void depths,(coal, Karst, other): N/A

11) Does land contain coal seams tributary to active mine? No

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
Remove 2-7/8" tubing and packer and replace with 2600 feet of 2-7/8" EUE 6.5# tubing and cementing packer shoe set at 2600'. Cement from 2600' to surface, cementing across the Gantz Sand at 2367'-2408'.

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	11-3/4"	H-40	42#	<u>43'</u>	<u>43'</u>	
Fresh Water						
Coal						
Intermediate	8-5/8"	K-55	24#	<u>1960'</u>	<u>1960'</u>	To surface <u>565 CFT.</u>
Production	5-1/2"	K-55	15.5#	<u>2698.6'</u>	<u>2698.6'</u>	<u>165 CFT.</u> <u>2699' -- 1500'</u>
Tubing	2-7/8"	K-55	6.4#		2600'	<u>ON PACKER</u> <u>@ 2552'</u>
Liners						RECEIVED

Office of Oil and Gas

Packers: Kind: Wall
Sizes: 2-7/8" x 5-1/2"
Depths Set 2552'

AUG 21 2017

BRYAN HARRIS OK by Phone
JMM

WW-2B1
(5-12)

Well No. 608217

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name N/A
Sampling Contractor N/A

Well Operator Equitrans, L.P
Address 625 Liberty Ave.
Pittsburgh, PA 15222
Telephone 412-395-5554 Justin Macken-VP Gas Systems Planning

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

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WV Department of
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09/01/2017

TUBING REPLACEMENT OF STORAGE WELL 8217 IN SKIN CREEK STORAGE
2017
Tubing Replacement 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
Check wellhead pressure
Kill well and annulus with weighted fluid
Move in and rig up service rig and ancillary equipment
Dis-assemble wellhead
Install BOP on 5.5" casing
Install lifting sub on 2-7/8" tubing
Use service rig to release slips in casing head
Release 2-7/8" X 5.5" packer
Pull 2-7/8" tubing and packer
Trip in hole with 3.5" tubing and 3.5" X 5.5" packer shoe to approximately 2600'
Remove BOP
Install 3.5" tubing hanger and master gate
Move in and rig up cementers
Cement 3.5" tubing with Class A type cement from 2600' to surface
Wait on cement 12 hours
Rig down and move off service rig
Move in and rig up wireline unit
Run cement bond log
Run flux leakage surveillance logging tool
Rig down and move off wireline unit
Move in and rig up coiled tubing unit
Remove fluid with nitrogen
Rig down and move off coiled tubing unit
Place well into service
PROCEDURE WILL COMPLY WITH THE WVDEP CODE REQUIREMENTS
SITE RECLAMATION
Reclaim access road and well site
PERMITTING
Submit final completion report

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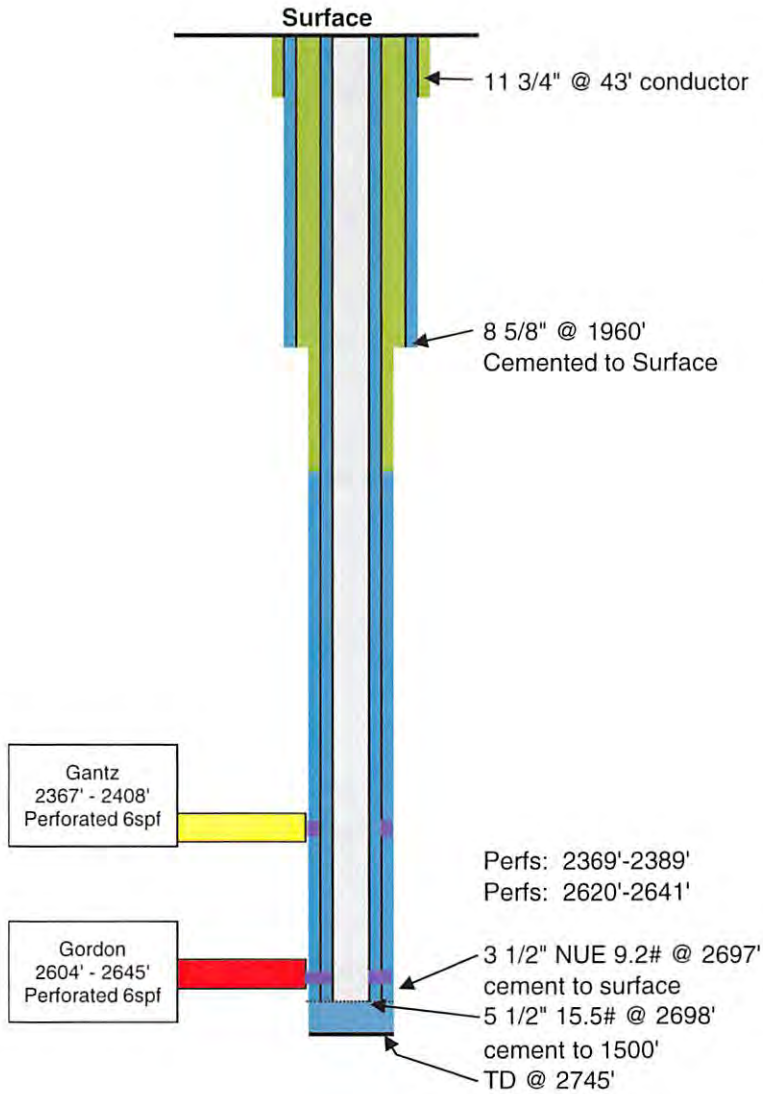
09/01/2017

Well 8217 (I/W)

Final Schematic

Skin Creek Storage Field

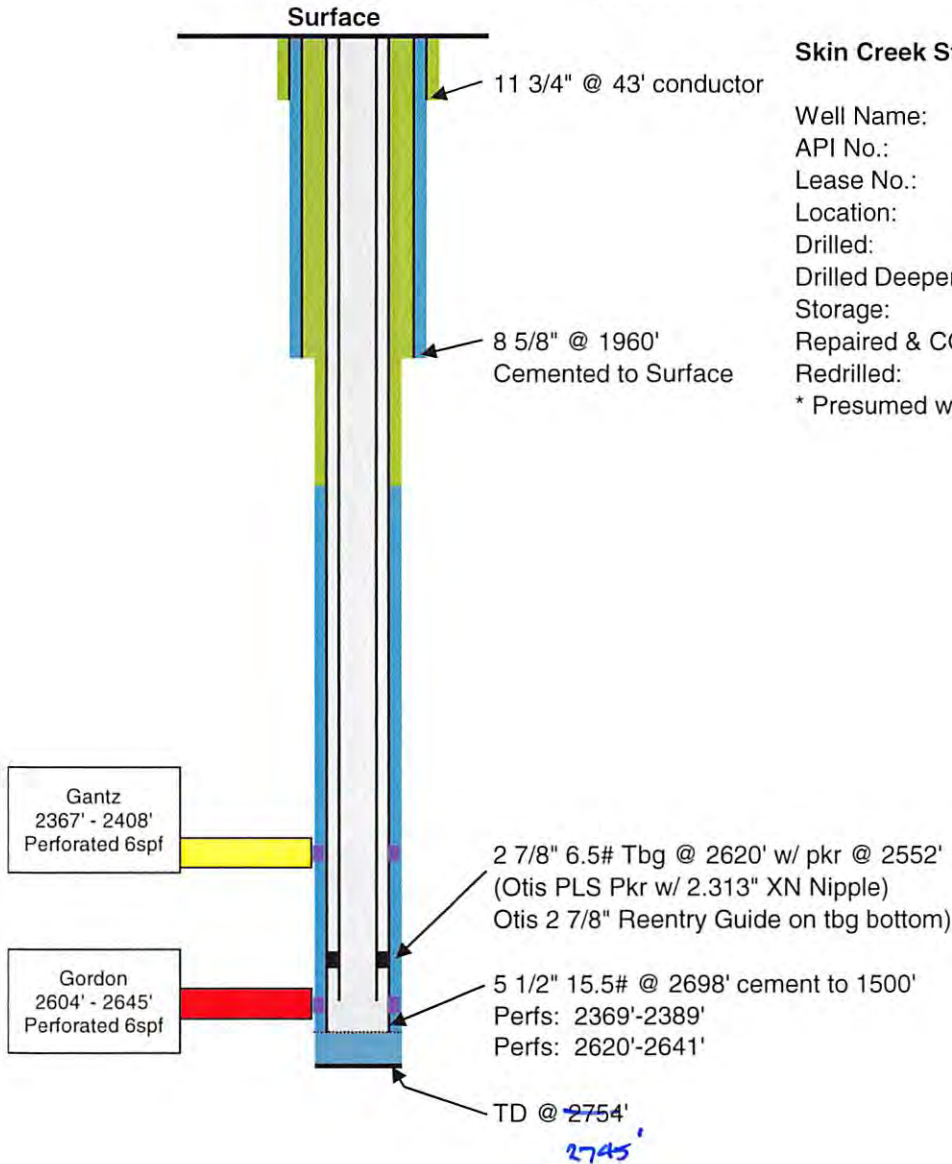
Well Name: USBLM
 API No.: 47-041-04092
 Lease No.: 22594
 Location: Court House Dist., Lewis Co.
 Drilled: 11/6/1991 TD 2745'
 Drilled Deeper:
 Storage: 11/06/91
 Repaired & CO: PBDT 2698' 11/6/1991
 Redrilled:
 * Presumed weights - exact weight unknown!



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Well 8217 (I/W)

Current Schematic



Skin Creek Storage Field

Well Name: USBLM
 API No.: 47-041-04092
 Lease No.: 22594
 Location: Court House Dist., Lewis Co.
 Drilled: 11/6/1991 TD 2745'
 Drilled Deeper:
 Storage: 11/06/91
 Repaired & CO: PBDT 2698' 11/6/1991
 Redrilled:
 * Presumed weights - exact weight unknown!

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 Environmental Protection

4104092W

WR-35

07-Aug-9
API # 47- 41-04092

Reviewed TMG
Recorded _____

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

RECEIVED

Well Operator's Report of Well Work

FEB 10 92

Farm name: U.S BUREAU OF LAND MGMT Operator Well No.: 8217 Division of Energy
and Gas Section

LOCATION: Elevation: 1199.00 Quadrangle: ROANOKE

District: COURT HOUSE County: LEWIS
Latitude: 3210 Feet South of 39 Deg. 0 Min. 0 Sec.
Longitude 6350 Feet West of 80 Deg. 27 Min. 30 Sec.

Company: EQUITRANS, INC.
3500 PARK LANE
PITTSBURGH, PA 15275-0000

Agent: JOHN KALAFAT

Inspector: TIM BENNETT
Permit Issued: 08/07/91
Well work Commenced: 10/04/91
Well work Completed: 11/06/91
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 2745
Fresh water depths (ft) None

Salt water depths (ft) 1252

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 271-280, 416-424

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill U. Cu. Ft
11-3/4"/42#	43	43	None
8-5/8"/24#	1960'	1960'	565 cu. ft. TO SURFACE
5-1/2"/15.5#	2698.6	2698.6	165 cu. ft. 2699 -1500'
2-7/8"/6.4#	2620'	2620'	ON PACKER @ 2552'

OPEN FLOW DATA Note: No test was taken during drilling operations; will be tested when well is placed in service.

Producing formation Gordon Pay zone depth (ft) 2604-2645
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 990 psig (surface pressure) after completion Hours

Second producing formation GANTZ Pay zone depth (ft) 2367-2408
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 540 psig (surface pressure) after completion Hours

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

RECEIVED
Office of Oil & Gas
MAR 18 92
WV Division of Environmental Protection

For: EQUITRANS, INC.
By: [Signature]
Date: 3/10/92

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09/01/2017

4104092U

- Gordon Perforation Interval - 2620 - 2641 @ 6 shots/ft.
- Gantz Perforation Interval - 2369 - 2383 @ 6 shots/ft.

Acid clean up performed on both producing formations
 - Gordon total displacement = 21 bbls 15% FE acid
 - Gantz total displacement = 21 bbls

0 - 5'	Clay
5 - 10'	Red Rock
10 - 25	Shale
25 - 35	Red Rock
35 - 40	Shale
40 - 44	Red Rock
44 - 110	Sand
110 - 148	Red Rock
148 - 271	Sand & Shale
271 - 280	Coal
280 - 331	Sand & Shale
331 - 416	Red Rock & Shale
416 - 424	Coal
424 - 500	Sand & Shale
500 - 570	Shale & Red Rock
570 - 799	Shale & Sand
799 - 840	Red Rock & Shale
840 - 905	Sand & Shale
905 - 1002	Shale & Red Rock
1002 - 1189	Sand & Shale
1189 - 1267	Sand H ₂ O @ 1252 1/2"
1267 - 1710	Sand & Shale
1710 - 1902	Red Rock
1902 - 1915	Lime
1915 - 1925	Shale & Red Rock
1925 - 1950	Little Lime
1950 - 1970	Shale & Dolomite
1970 - 2058	Big Lime
2058 - 2156	Big Injun
2156 - 2268	sand & Shale
2268 - 2286	Berea
2286 - 2367	Sand & Shale
2367 - 2408	Gantz
2408 - 2604	Sand & Shale
2604 - 2645	Gordon
2645 - 2745	Shale & Sand

6/1/17

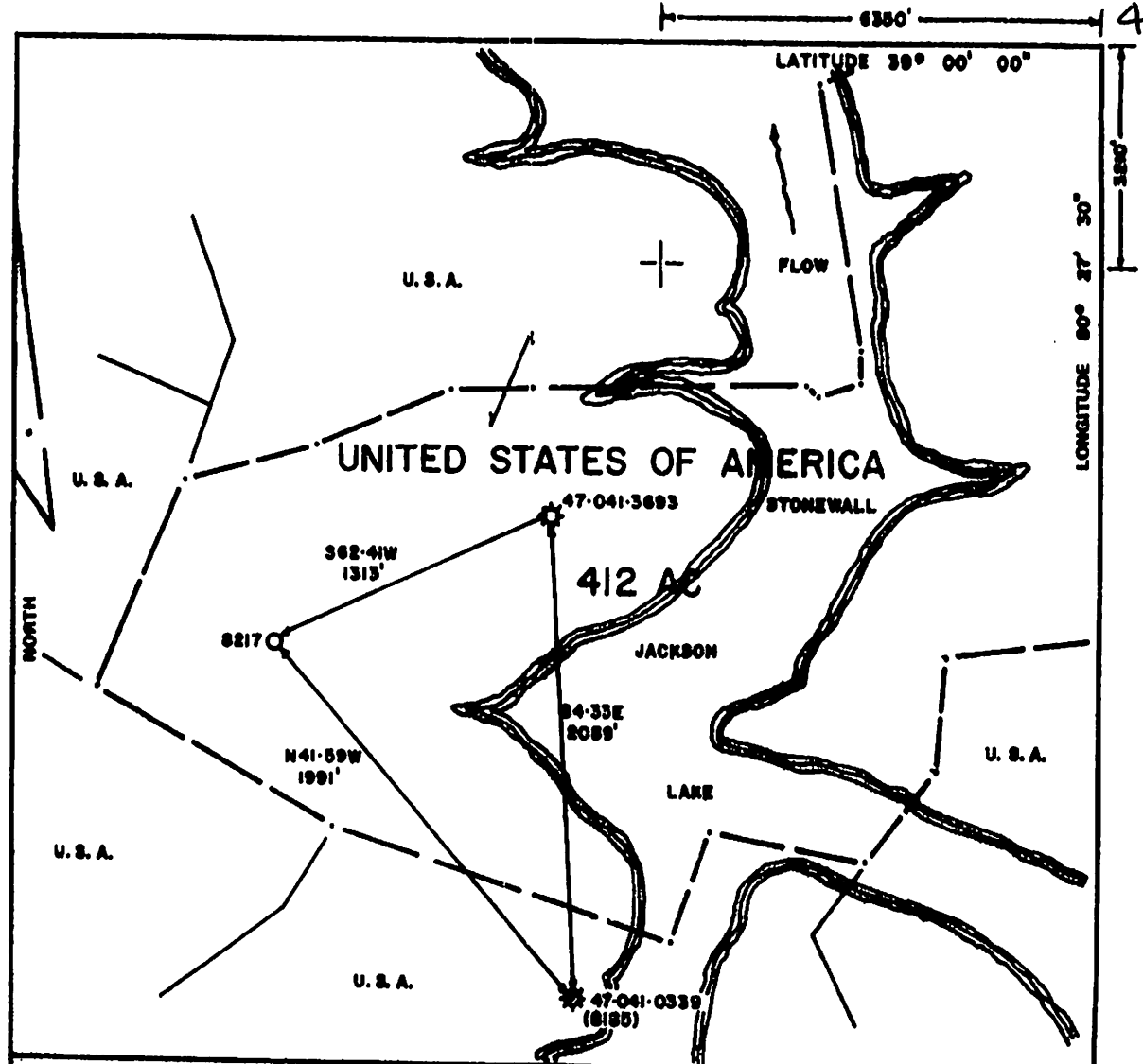
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Environmental Protection

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4104092W



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 600'
 MINIMUM DEGREE OF ACCURACY 1 IN 500
 PROVEN SOURCE OF ELEVATION WELL 47-041-0339 (8185)

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF MINES.
 (SIGNED) David L. Mitchell
 R.P.E. _____ L.L.S. 273

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-8
 (7-87)



DATE 4/19/91, 19____
 OPERATOR'S WELL NO. 8217
 API WELL NO. _____
47 - 041 - 4092
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1122' WATER SHED STONEWALL JACKSON LAKE (SKIN CREEK)
 DISTRICT COURTHOUSE COUNTY LEWIS
 QUADRANGLE ROANOKE / CRAWFORD NW 25 11
 SURFACE OWNER UNITED STATES OF AMERICA ACREAGE 308.91
 OIL & GAS ROYALTY OWNER MINERALS MANG. SERVICE - ROYALTY PRO LEASE ACREAGE 412
 LEASE NO. 22994
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION SORDON / GANTZ ESTIMATED DEPTH 2200 / 2200
 WELL OPERATOR EMERYTRANS, INC. DESIGNATED AGENT JOHN KALAFAT
 ADDRESS 2600 PARK LANE ADDRESS P. O. BOX 909
PITTSBURGH, PA 15279 WESTON, WV 26452

RECEIVED
 Office of Oil and Gas
 AUG 10 2017
 WV Department of Environmental Protection

09/01/2017

Roanoke 1

WW-4A
Revised 6-07

1) Date: July 21, 2017
2) Operator's Well Number
608217

3) API Well No.: 47 - 041 - 04092

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>US Army Corps of Engineers</u>	Name <u>N/A</u>
Address <u>ATTN: Jeffrey H. Toler, Resource Manager</u>	Address _____
<u>1012 Skin Creek Road</u>	_____
(b) Name <u>Weston, WV 26452-7435</u>	(b) Coal Owner(s) with Declaration
Address <u>(304) 269-4588</u>	Name <u>U.S. Bureau of Land Management</u>
_____	Address <u>Division of Natural Resources</u>
(c) Name _____	<u>Minerals Management Service</u>
Address _____	Name <u>PO Box 25627</u>
_____	Address <u>Denver, CO 80255-0627</u>
6) Inspector <u>Barry Stollings</u>	(c) Coal Lessee with Declaration
Address <u>28 Conifer Drive</u>	Name <u>N/A</u>
<u>Bridgeport, WV 26330</u>	Address _____
Telephone <u>(304) 552-4194</u>	_____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

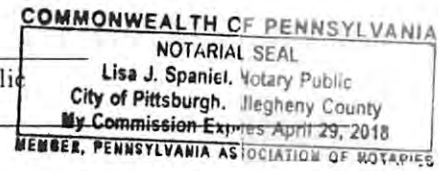
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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.

Well Operator	<u>Equitrans, L.P.</u>	RECEIVED Office of Oil and Gas
By:	<u>Justin Macken</u> <i>Justin A Macken</i>	
Its:	<u>VP Gas Systems Planning</u>	AUG 10 2017
Address	<u>625 Liberty Avenue</u>	
	<u>Pittsburgh, PA 15222</u>	WV Department of Environmental Protection
Telephone	<u>412-395-5554; Email: jmacken@eqt.com</u>	

Subscribed and sworn before me this 3rd day of July 2017
Lisa J. Spaniel Notary Public
My Commission Expires _____



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.

WW-2A1
(Rev. 1/11)

Operator's Well Number 6108217

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Will E. Morris and Camelia Morris, his wife ETAL	Pittsburgh & West Virginia Gas Company	Flat Rate-Gas; 1/8-Oil	148/71
Pittsburgh and West Virginia Gas Company	Equitable Gas Company	W.I.	216/185
Equitable Gas Company	Equitrans, Inc.	W.I.	468/325
Equitable Gas Company	Equitrans, Inc.	W.I.	465/432
Equitrans, Inc. ETAL (Confirmatory Assignment of Lessee)	Equitrans, LP	W.I.	673/29

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

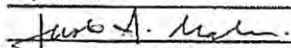
- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

RECEIVED
Office of Oil and Gas

Well Operator:
By: Its:

Equitrans, LP


Justin Macken; VP Gas Systems Planning

AUG 21 2017

41 04092W

WW-9
(5/16)

API Number 47 - 041 - 04092

Operator's Well No. 608217

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) Stonewall Jackson Lake (Skin Creek) Quadrangle Roanoke/Crawford NW

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

ANY WELL EFFLUENT WILL BE
CONTAINED IN TANKS UNTIL
DISPOSED OF OFF-SITE,
JMM

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 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: N/A

Drilling medium anticipated for this well (vertical and horizontal)? 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, 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 [Signature]

Company Official (Typed Name) Justin Macken

Company Official Title VP Gas Systems Planning

RECEIVED
Office of Oil and Gas
AUG 10 2017
WV Department of
Environmental Protection

Subscribed and sworn before me this 3rd day of July, 20 17

[Signature]

My commission expires _____

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Lisa J. Spaniel, Notary Public
City of Pittsburgh, Allegheny County
My Commission Expires April 29, 2018
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

09/01/2017

4104092W

Form WW-9

Operator's Well No. 608217

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
<u>N/A</u>	

Seed Type	lbs/acre
<u>Meadow Mix</u>	<u>40 lbs per acre</u>

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: Bryan O. Hain

Comments: _____

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Title: Inspector

Date: 7-31-17

Field Reviewed? (X) Yes () No

4104092W

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

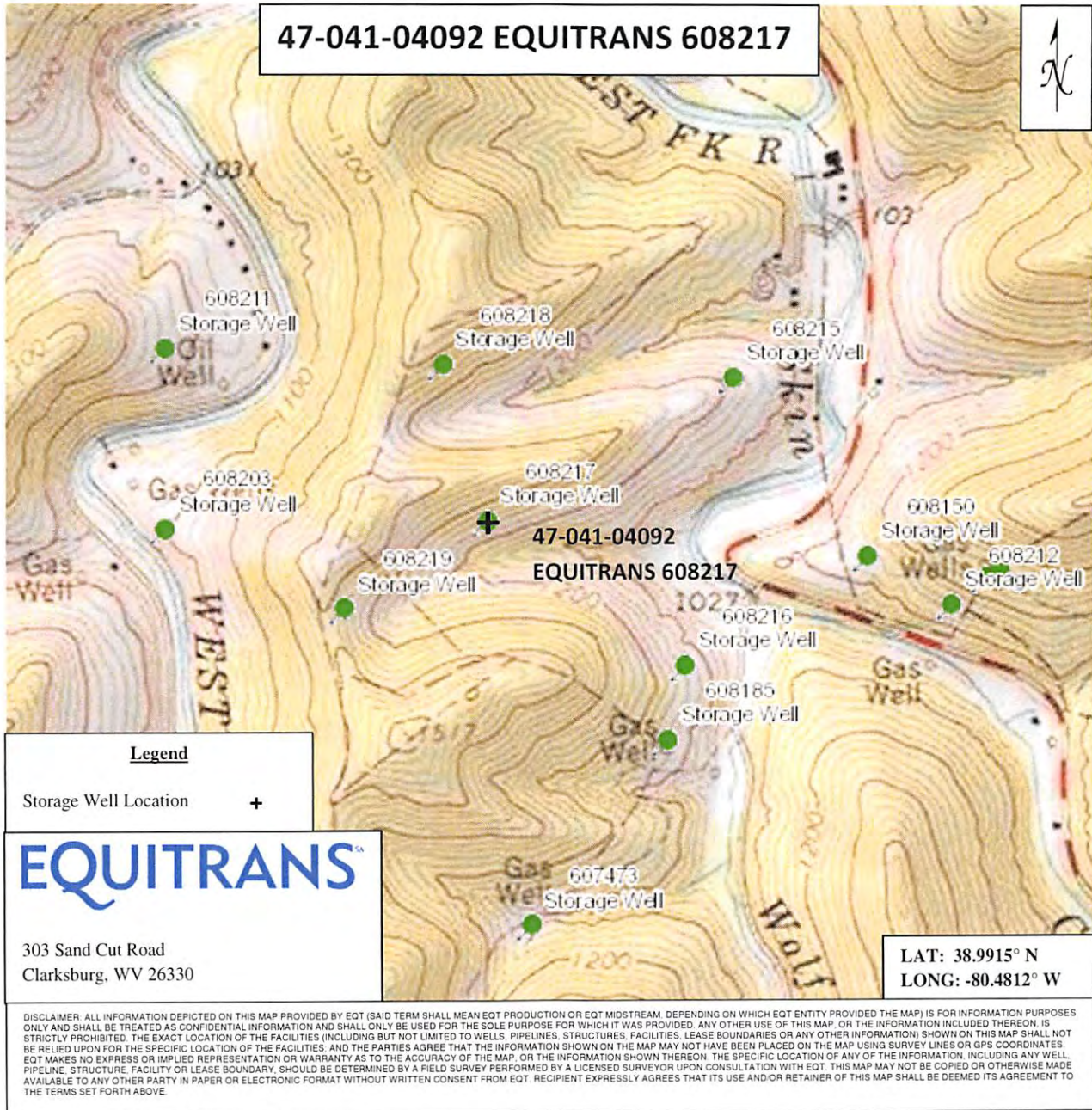
Region	Facility Type	Facility Location Name	Street	City	State	Zip Code
Marcellus/Utica	Disposal Well	Nichols (SWIW #13) 1 - A	10555 Veto Road	Belpre	OH	43714
	Disposal Well	D - 1 (SWIW #7)	3549 Warner Road	Fowler	OH	44418
	Disposal Well	Goff (SWIW #27) 1	9350 East Pike Road	Norwich	OH	43767
	Disposal 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. DeLores 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	4245 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	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)	Connelsville	N/A	PA	2608201	

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Legend
Storage Well Location +

EQUITRANSSM

303 Sand Cut Road
Clarksburg, WV 26330

LAT: 38.9915° N
LONG: -80.4812° W

DISCLAIMER: ALL INFORMATION DEPICTED ON THIS MAP PROVIDED BY EQT (SAID TERM SHALL MEAN EQT PRODUCTION OR EQT MIDSTREAM, DEPENDING ON WHICH EQT ENTITY PROVIDED THE MAP) IS FOR INFORMATION PURPOSES ONLY AND SHALL BE TREATED AS CONFIDENTIAL INFORMATION AND SHALL ONLY BE USED FOR THE SOLE PURPOSE FOR WHICH IT WAS PROVIDED. ANY OTHER USE OF THIS MAP, OR THE INFORMATION INCLUDED THEREON, IS STRICTLY PROHIBITED. THE EXACT LOCATION OF THE FACILITIES (INCLUDING BUT NOT LIMITED TO WELLS, PIPELINES, STRUCTURES, FACILITIES, LEASE BOUNDARIES OR ANY OTHER INFORMATION) SHOWN ON THIS MAP SHALL NOT BE RELIED UPON FOR THE SPECIFIC LOCATION OF THE FACILITIES, AND THE PARTIES AGREE THAT THE INFORMATION SHOWN ON THE MAP MAY NOT HAVE BEEN PLACED ON THE MAP USING SURVEY LINES OR GPS COORDINATES. EQT MAKES NO EXPRESS OR IMPLIED REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF THE MAP, OR THE INFORMATION SHOWN THEREON. THE SPECIFIC LOCATION OF ANY OF THE INFORMATION, INCLUDING ANY WELL, PIPELINE, STRUCTURE, FACILITY OR LEASE BOUNDARY, SHOULD BE DETERMINED BY A FIELD SURVEY PERFORMED BY A LICENSED SURVEYOR UPON CONSULTATION WITH EQT. THIS MAP MAY NOT BE COPIED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PARTY IN PAPER OR ELECTRONIC FORMAT WITHOUT WRITTEN CONSENT FROM EQT. RECIPIENT EXPRESSLY AGREES THAT ITS USE AND/OR RETAINER OF THIS MAP SHALL BE DEEMED ITS AGREEMENT TO THE TERMS SET FORTH ABOVE.

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Quad: Roanoke/Crawford NW Scale: Not Mapped to Scale
 County: Lewis Date: 7/21/2017
 District: Court House Rural API: 47-041-04092

4104092 W

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-041-04092 WELL NO.: 608217

FARM NAME: United States of America

RESPONSIBLE PARTY NAME: Equitrans, L.P.

COUNTY: Lewis DISTRICT: Court House Rural

QUADRANGLE: Roanoke/Crawford NW

SURFACE OWNER: US Army Corps of Engineers

ROYALTY OWNER: U.S. Bureau of Land Management, Division of Natural Resources

UTM GPS NORTHING: 4315961.3194517

UTM GPS EASTING: 544929.30546476 GPS ELEVATION: 365.4552 (1199 ft)

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

- 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] Landman III 7-21-17
 Signature Title Date

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