

#### 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, August 30, 2017 WELL WORK PERMIT Vertical / Re-Work

EQUITRANS, L. P. 625 LIBERTY AVENUE SUITE 1700

PITTSBURGH, PA 152220000

Re: Permit approval for 8218 47-041-04093-00-00

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: 8218

Farm Name: U.S BUREAU OF LAND MGMT U.S. WELL NUMBER: 47-041-04093-00-00

Vertical / Re-Work

Date Issued: 8/30/2017

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>

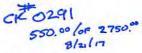
# **CONDITIONS**

- 1. 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.
- 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.

WW - 2B (Rev. 8/10)

OK BY PHONE BRAIN HARUS

2 mm



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

		Printurgh, PA 15222		5547235	Lewis	Court House Rural	Roanoke/Crawford NW
				Operator ID	County	District	Quadrangle
Operator's W	/ell Numb	er: <u>60821</u>	8		3) Elevation:	1370	
) Well Type: (a	a) Oil	_ or Ga	s <u>X</u>				
(b	) If Gas:	Produ	ction/ Un	derground Sto	rage X		
		Deep	/ 5	Shallow	_		
) Proposed Ta ) Proposed To ) Approximate ) Approximate	tal Depth fresh wat	: 2828' ter strata	Feet depths: 480	Formation at F	Proposed Tar Proposed Tota		
) Approximate	coal sear	m depths	s: <u>475</u>				
			al, Karst, other):	N/A			
							memorate Approximately
1) Does land o	contain co	al seam	s tributary to ac	tive mine? N	10		
emove 2-7/8' tubi	ng and pac	ker and re	nd fracturing mether eplace with 2750 fe ementing across the	et of 3 1/2" NUE	9.2# tubing and		
				marin and the second			
	SPECIFIC		ASING AND TU			S CEME	NT
	SPECIFIC Size			BING PROGR FOOTAGE For Drilling	AM INTERVALS Left in Well		
3) TYPE S Conductor	-10	ATIONS		FOOTAGE	INTERVALS		
TYPE S Conductor Fresh Water	<u>Size</u>	ATIONS Grade	Weight per ft	FOOTAGE For Drilling	Left in Well		
TYPE S Conductor Fresh Water Coal	<u>Size</u>	ATIONS Grade	Weight per ft	FOOTAGE For Drilling 43'	Left in Well 43'	Fill -up (Cu	. Ft.)
TYPE S Conductor Fresh Water Coal	<u>Size</u>	ATIONS Grade	Weight per ft	FOOTAGE For Drilling	Left in Well 43'	Fill -up (Cu	. Ft.)
TYPE S Conductor	<u>Size</u> 11-3/4"	Grade H-40	Weight per ft 42#	FOOTAGE For Drilling 43'	Left in Well 43'	Fill -up (Cu	. Ft.)
TYPE S Conductor Fresh Water Coal Intermediate Production	<u>Size</u> 11-3/4" 8-5/8"	Grade H-40 K-55	Weight per ft 42# 24#	FOOTAGE For Drilling 43' 2070.9'	Left in Well 43'	Fill -up (Cu	.Ft.)
TYPE S Conductor Fresh Water Coal Intermediate	<u>Size</u> 11-3/4" 8-5/8" 5-1/2"	Grade H-40 K-55 K-55	Weight per ft 42# 24# 15.5#	FOOTAGE For Drilling 43' 2070.9'	Left in Well 43' 2070.9' 2913.95'	608 CTS 210 CTS 2914 - 1 ON PACKET	FT. 835
TYPE S Conductor Fresh Water Coal Intermediate Production Tubing	Size 11-3/4" 8-5/8" 5-1/2" 2-7/8"	Grade H-40 K-55 K-55	Weight per ft 42# 24# 15.5#	FOOTAGE For Drilling 43' 2070.9'	Left in Well 43' 2070.9' 2913.95'	608 CTS 210 CTS 2914 - 1 ON PACKET	FT. 935
Conductor Fresh Water Coal Intermediate Production Tubing Liners Packers: Kind	Size 11-3/4" 8-5/8" 5-1/2" 2-7/8" d: Wall es: 2-7/8"	K-55 K-55 K-55 x 5-1/2"	Weight per ft 42# 24# 15.5#	FOOTAGE For Drilling 43' 2070.9'	Left in Well 43' 2070.9' 2913.95'	GOS CF CTS 210 CF 2914 - 1 ON PACKET	Ft.) FT. 935 Re 2742' CEIVED Oil and Go
Conductor Fresh Water Coal Intermediate Production Tubing Liners Packers: Kind	Size 11-3/4" 8-5/8" 5-1/2" 2-7/8"	K-55 K-55 K-55 x 5-1/2"	Weight per ft 42# 24# 15.5#	FOOTAGE For Drilling 43' 2070.9'	Left in Well 43' 2070.9' 2913.95' 2770'	GOS CF CTS 210 Ct 2914 - 1 ON PACKED Office of	FT. 835

WW-2B1	Well No608218
(5-12)	West Virginia Department of Environmental But a time

# 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.

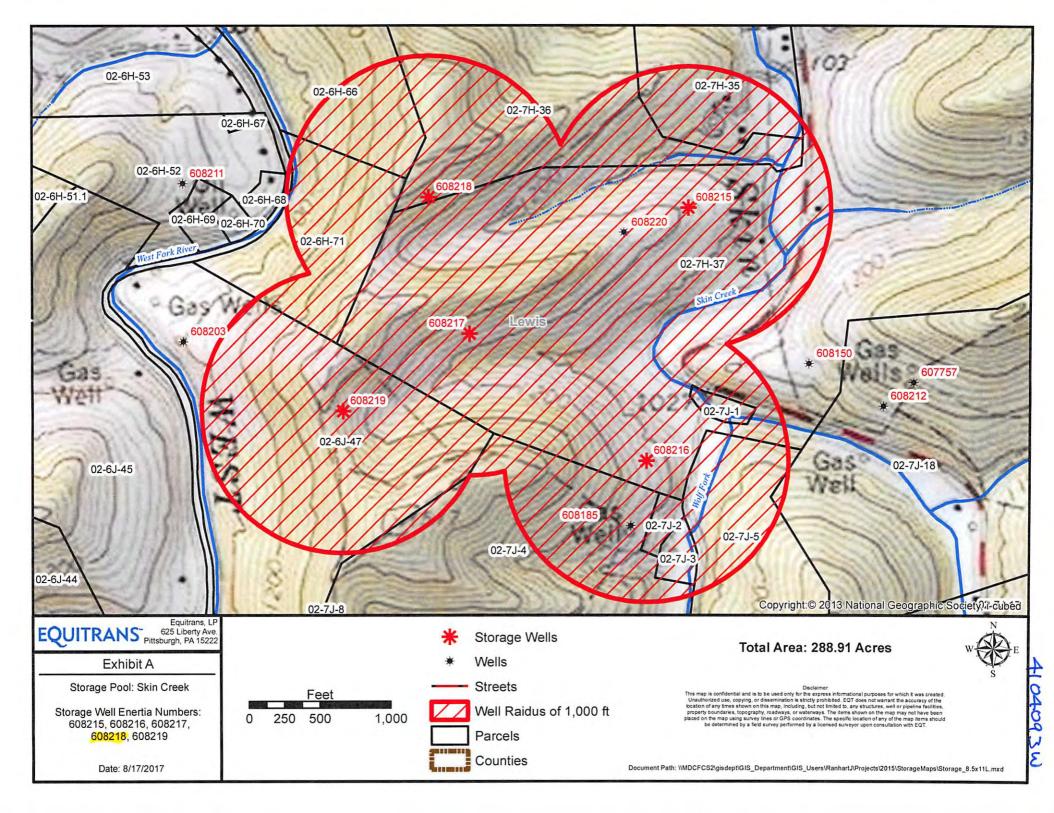
All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

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 Labora	atory Name	N/A	
Sampling Contractor		N/A	
Well Operator	Equitrans, L.P		
•	Equitions, E.F.		
Address	625 Liberty Ave	J.	
	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.



#### ATTACHMENT WW-2B1

# **EQUITRANS**

RE: Storage Wells 608215, 608216, 608217, 608218, 608219

Potential Water Sample Data Sheet

Parcel ID	Property Owner(s)	Water Source (if applicable)	County	State
02-6Н-66	US Army Corps of Engineers	N/A	Lewis	WV
02-6H-68	US Army Corps of Engineers	N/A	Lewis	WV
02-6H-71	US Army Corps of Engineers	N/A	Lewis	WV
02-7H-35	US Army Corps of Engineers	N/A	Lewis	WV
02-7H-36	US Army Corps of Engineers	N/A	Lewis	WV
02-7H-37	US Army Corps of Engineers	N/A	Lewis	WV
02-6J-47	US Army Corps of Engineers	N/A	Lewis	WV
02-7J-1	US Army Corps of Engineers	N/A	Lewis	WV
02-7J-2	US Army Corps of Engineers	N/A	Lewis	WV
02-7J-3	US Army Corps of Engineers	N/A	Lewis	WV
02-7J-4	US Army Corps of Engineers	N/A	Lewis	WV
02-7J-5	US Army Corps of Engineers	N/A	Lewis	WV
02-7J-18	US Army Corps of Engineers	N/A	Lewis	WV

The above Parcels are identified as being within 1000 feet of the following Equitrans, L.P. Storage Wells and as displayed on the Exhibit A, attached hereto:

608215 API No. 47-041-04090 38.9939°N, -80.4758°W

608216 API No. 47-041-04091 38.989°N, -80.4769°W

608217 API No. 47-041-04092 38.9915°N, -80.4812°W

608218 API No. 47-041-04093 38.9941°N, -80.4822°W

608219 API No. 47-041-04094 38.99°N, -80.4844°W

No known water source, i.e., water well or spring, is being utilized for human consumption, domestic animals, or other general use. A notice to the surface owner has been submitted: US Army Corps of Engineers, ATTN: Jeffrey H. Toler, Resource Manager, 1012 Skin Creek Road, Weston, WV 26452-7435.

**TUBING REPLACEMENT OF STORAGE WELL 8218 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 2750' 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 2750' 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

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Office of Oil and Gas
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Environmental Protection

SITE RECLAMATION

Reclaim access road and well site

# Well 8218 (I/W)

Final Schematics

### Skin Creek Storage Field

Surface Well Name: API No .: - 11 3/4" @ 43' conductor Lease No .: Location: Drilled: Storage: Redrilled: 8 5/8" @ 2071' Cemented to Surface 2518' - 2560' Perforated 6spf Perfs: 2519'-2529' Perfs: 2770'-2777' 3 1/2" NUE 9.2# @ 2827' 2758' - 2778' cement to surface Perforated 6spf -5 1/2" 15.5# @ 2828' cement to 1835'

TD @ 2909'

Gantz

Gordon

47-041-04093 22594

**USBLM** 

Court House Dist., Lewis Co.

12/5/1991 TD 2909'

Drilled Deeper:

12/05/91

Repaired & CO: PBTD 2909' 12/5/1991

\* Presumed weights - exact weight unknown!

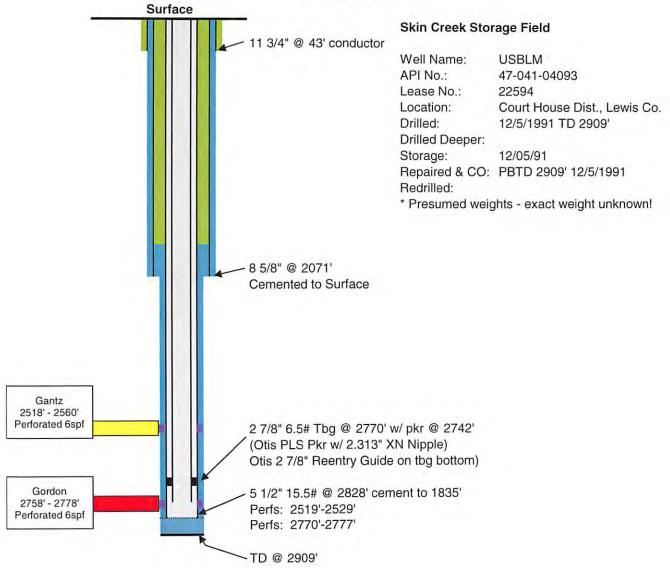
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WV Department of Environmental Protection

# Well 8218 (I/W)

Current Schematic



Office of Oil and Gas

AUG 1 0 2017

WV Department of Environmental Protection

WR-35 07-Aug-9 API # 47- 41-04093 State of West Virginia DEPARTMENT OF ENERGY RECEIVED Reviewed Division of Oil and Gas Recorded. FEB 1 0 92 Well Operator's Report of Well Work Division of Energy Farm name: U.S BUREAU OF LAND MGMT (3) and Gas Section Operator Well No.: 8218 LOCATION: Elevation: 1370.00 Quadrangle: ROANOKE District: COURT HOUSE County: LEWIS Latitude: 2000 Feet South of 39 Deg. 0 Min. 0 Longitude Feet West of 80 Deg. 27 Min. 30 Sec. 6670 Company: EQUITRANS, INC. 3500 PARK LANE Casing Used in Left PITTSBURGH, PA Cement 15275-0000 Fill U Tubing Drilling in Well|Cu. Ft Agent: JOHN KALAFAT Size Inspector: TIM BENNETT Permit Issued: 08/07/91 L1-3/4"/42# 431 Well work Commenced: 43' MTD 11/01/91 Well work Completed: 12/05/91 608 cu. ft. Verbal Plugging 8-5/8"/24# 2070.9 Permission granted on: TO SHEWE 2070.9 Rotary X Cable Total Depth (feet) 210 a. It Ria 2909 5-1/2"/15.5# i 2913.95 2913.95 2914-1835 Fresh water depths (ft) Salt water depths (ft) On Racker None 2-7/8"/6.4# 27701 2770' @ 2742 Is coal being mined in area (Y/N)? Coal Depths (ft): (426-431), (458-464) (767 - 774)OPEN FLOW DATA Note: Well not tested during drilling operations - will be RECEIVED tested when placed in service. Pay zone depth (ft)2758-2778 Office of Oil and Gas Producing formation **GORDON** Gas: Initial open flow NA Final open flow NA MCF/d Oil: Initial open flow N/A
MCF/d Final open flow N/A Final open flow NA вы व Bb1 a AUG 1 0 2017 Final open flow Time of open flow between initial and final tests Static rock Pressure Pay zone depth (ft)2518-2560 Environmental Protection tial open flow NA Bb1 7 Hou s 925 psig (surface pressure) aftercompletion Hou s Second producing formation GANIZ MCF/d Oil: Initial open flow Gas: Initial open flow NA Final open flow N/A Final open flow MCF/d Time of open flow between initial and final tests Bbl d N/A Static rock Pressure Hou s 525 \_psig (surface pressure) aftercompletion Hou s NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORAT DISTRIBUTION OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WE LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATION, INCLUDING COAL ENCOUNTERED BY THE WELLBORE. RECEIVED Office of Oil & Gas For: EQUITRANS MAR 1 8 92 Date: WV Division of 09/01/2017

Environmental Protection

Port of

- -Gordon Perforation Interval 2770 2777 @ 6 shots/ft.
- Gantz Perforation Interval 2519 2529 @ 6 shots/ft.

Acid clean up performed on both formations.

Gordon - total displacement = 16 bbls FE Acid (15%)
Gantz - total displacement = 21 bbls FE Acid (15%)

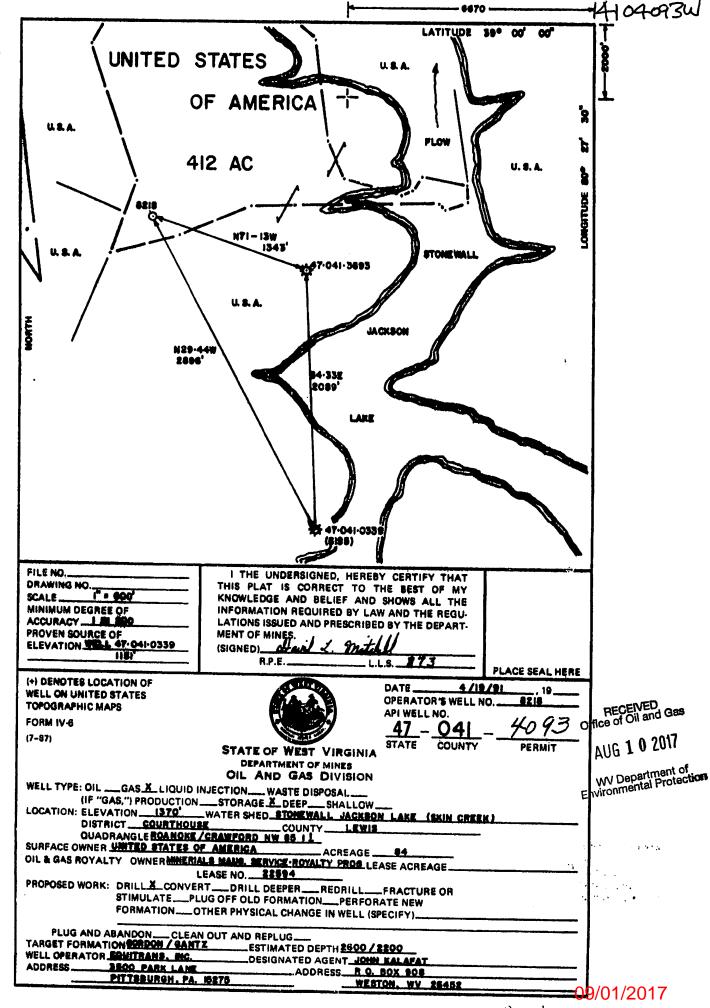
```
0' - 2'
                 Clay
2' - 10'
10' - 25'
                 Sand
                 Shale
25' - 143'
                 Sand and Shale
143' - 160'
160' - 426'
                 Red Rock
                 Sand & Shale
426' - 431'
                 Coal
431' - 458'
                 Sand & Shale
458' - 464'
                 Coal
464' - 509'
                 Sand & Shale
509' - 573'
                 Sand
                 Sand & Shale
573' - 594'
594' - 623'
                 Red Rock
623' - 644'
                 Sand & Shale
644' - 689'
                 Red Rock
639' - 767'
                 Sand & Shale
767' - 774'
                 Coal
                  Sand & Shale
774' - 810'
810' - 828'
                  Red Rock
828' - 850'
                  Sand & Shale
850' - 880'
                  Red Rock
                  Sand & Shale
880' - 1213'
1213'- 1246'
                  Sand
                  Sand & Shale
1246' - 1307'
1307' - 1718'
                  Sand & Shale
1718' - 1760'
                  Red Rock
1760' - 1842'
                  Sand & Shale
1842' - 1892'
                  Red Rock
 1892' - 2072'
                  Sand & Shale
 2072' - 2110'
                  Little Lime
 2110- - 2116'
                  Shale
 2116' - 2204'
                  Big Lime
 2204' - 2297'
                  Big Injun
 2297' - 2415'
                  Sand & Shale
 2415' - 2421'
                  Berea
 2421' - 2429'
                  Shale
 2429' - 2433'
                  Berea
 2433' - 2518'
                  Sand & Shale
                  Gantz - Gas
 2518' - 2560'
                  Sand & Shale
 2560' - 2758'
                  Gordon - Gas/or
 2758' - 2778'
 2778' - 2909'
                  Sand & Shale
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0200

RECEIVED Office of Oil and Gas

AUG 1 0 2017

WV Department of Environmental Protection



04093

WW-4A Revised 6-07

v 21 1) Date: 2) Operator's Well 608218

041

### 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 -

<ul> <li>Surface Ow</li> <li>(a) Name</li> </ul>	ner(s) to be served: 5)(s US Army Corps of Engineers	a) Coal Operator Name	N/A
Address	ATTN: Jeffrey H. Toler, Resource Manager	Address	·
	1012 Skin Creek Road	_	
(b) Name	Weston, WV 26452-7435	(b) Coal Ow	ner(s) with Declaration
Address	(304) 269-4588	Name	U.S. Bureau of Land Management
		Address	Division of Natural Resources
		-	Minerals Management Service
(c) Name		Name	PO Box 25627
Address		Address	Denver, CO 80255-0627
Inspector	Barry Stollings	(c) Coal Les	see with Declaration
Address	28 Conifer Drive	Name	N/A
	Bridgeport, WV 26330	Address	
Telephone	(304) 552-4194		

- (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.

Wall Owner	Southern I B	
Well Operat	or Equitrans, L.P.	RECEIVED Gas
By:	Justin Macken Just A Mul-	RECEIVED Gas
Its:	VP Gas Systems Planning	Office of O.
Address	625 Liberty Avenue	AUG 1 0 2017
	Pittsburgh, PA 15222	Aud -
Telephone	412-395-5554; Email: jmacken@eqt.com	Wir Department Ol
		Wy Department of Envi anmental Proces
bac	COMMONWEA	LTH OF PENNSYLVANIA
Subscribed and sworn before me this 3rd	day of July 2017 MO	OTARIAL SEAL
Bisa J. Spaniel		paniel, Notary Public
My Commission Expires	City of Pitts	burgh, Aller heny County
· y	#¥ Commissi	on Expires April 29, 2018

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 depprivacyoffiera wy.gov.

MEMBER, PENNSYLVANIA ASSOCIATION OF NUTARILL

WW.	-2A1
(Rev.	1/11)

Operator's Well Number	6108218

# 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 Camella Morris, his wife ETAL	Piltsburgh & West Virginia Gas Company	Flat Rate-Gas; 1/8-Oil	146/71
Pittsburgh and West Virginia Gas Company	Equitable Gas Company	w.r.	216/185
Equitable Gas Company	Equitrans, Inc.	W.I.	468/325
Equitable Gas Company	Equitrans, Inc.	w.t.	465/432
Equirons, Inc. ETAL (Confirmatory Assignment of Lenses)	Equilrans, LP	W.L	673/29

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

The permit app licant for the proposed well work addressed in this application he reby a cknowledges 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 ac quired from the appropriate authority before the affected activity is initiated.

RECEIVED		Equilrans, LP	
Office of Oil and Gas	Well Operator:	Just A. Much.	
	By:lts:	Justin Macken; VP Gas Systems Planning	

AUG 2 1 2017

WW-9 (5/16)

API Number 47 -	041	_ 04093	
Operator's Well No	60	08218	

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

Operator Name Equitrans, L.P.	OP Code 5547235
Watershed (HUC 10) Stonewall Jackson Lake (Skin Creek)	
Oo you anticipate using more than 5,000 bbls of water to comple  Will a pit be used? Yes No  If so, please describe anticipated pit waste:NA	ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS UNTIL
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Reuse (at API NumberOff Site Disposal (Supply form WW	Number)
Vill closed loop systembe used? If so, describe: N/A	
	al)? Air, freshwater, oil based, etc. N/A
-If oil based, what type? Synthetic, petroleum, etc	
rill cuttings disposal method? Leave in pit, landfill, removed of	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 Attachme	ent)
I certify that I understand and agree to the terms and con April I, 2016, by the Office of Oil and Gas of the West Virgorovisions of the permit are enforceable by law. Violations of an or regulation can lead to enforcement action.  I certify under penalty of law that I have personally application form and all attachments thereto and that, based on resulting false information, including the possibility of fine or Company Official Signature  Company Official Signature	examined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for obtaining e, and complete. I am aware that there are significant penalticipal of the imprisonment.  Office of Oil and Gas Office of Oil and Gas Office of Oil and Gas Office of Oil and Oil Oil and Oil and Oil Oil and Oil
Company Official (Typed Name) Justin Macken	W Department warmental Prote
Company Official Title VP Gas Systems Planning	W Department Environmental Prot
Subscribed and swom before me this 3rd day of Assa J. Spanish	
My commission expires	NOTARIAL SEAL Lisa J. Spaniel, Notary Public City of Pittsburgh, Alleggery Colored My Commission Expires April 29, 2018 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIE

Form WW-9	Operator's Well No.	
oposed Revegetation Treatment: Acres Disturbe	ed less than one (1) acre Preveg etation pH N/A	
Lime 3 Tons/acre or to c	correct to pH 6 1/2	
Fertilizer type		
Fertilizer amount 600	lbs/acre	
Mulch_ Hay or Straw	Tons/acre	
	Seed Mixtures	
Temporary	Permanent	
Seed Type lbs/acre	Seed Type lbs/acre	
I/A	Meadow Mix 40 lbs per acre	
aps(s) of road, location, pit and proposed area for ovided). If water from the pit will be land applied	or land application (unless engineered plans including this info have been d, provide water volume, include dimensions (L, W, D) of the pit, and dim rea.	ensions
aps(s) of road, location, pit and proposed area for ovided). If water from the pit will be land applied, W), and area in acres, of the land application are notocopied section of involved 7.5' topographics.	d, provide water volume, include dimensions (L, W, D) of the pit, and dim rea.	ensions
aps(s) of road, location, pit and proposed area for ovided). If water from the pit will be land applied, W), and area in acres, of the land application are notocopied section of involved 7.5' topographic standard Approved by:	d, provide water volume, include dimensions (L, W, D) of the pit, and dim rea.	ensions
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ttach: [aps(s) of road, location, pit and proposed area for ovided). If water from the pit will be land applied.  W), and area in acres, of the land application are notocopied section of involved 7.5' topographic standard and Approved by:  By D'Harrison Comments:	d, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L,	ED Gas
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# Attachment WW-9 Landfill or Offsite Disposal Name/Permit Number

Region	Eacibly Type	Facility Location Name	Street	City	State	Zip Code
- manufacture		Nichols (SWIW #13) 1 - A	10555 Veto Road	Belpre	OH	45714
	Disposal Well		3549 Warner Road	Fowler	OH	44418
1 3	Disposal Well	Goff (SWIW #27) 1	1	Norwich	OH	43767
3	Disposal Well	Eva Jean Root Wolf 1 and 4, Wolf 2,		Newton Falls	OH	44444
3	Disposal Well	Pander R&P (SWIW # 15 & #16) 1 & 2		Newton Falls	OH	44144
	Disposal Well	DOING. EXERGES DIRECT P	***************************************	Hiram	OH	44234
7	Disposal Well	Deigen & Diake Curparation 2 - 10.0	10000 1:41201 011441	Louisville	OH	44641
1	Disposal Well	Plum Creek 1	4,42,42,44,44,44,44,44,44,44,44,44,44,44	Kent	OH	44240
1	Disposal Well	Ed Lyons (Genet) 1	7700 Lincoln Street	East Centon	OH	44730

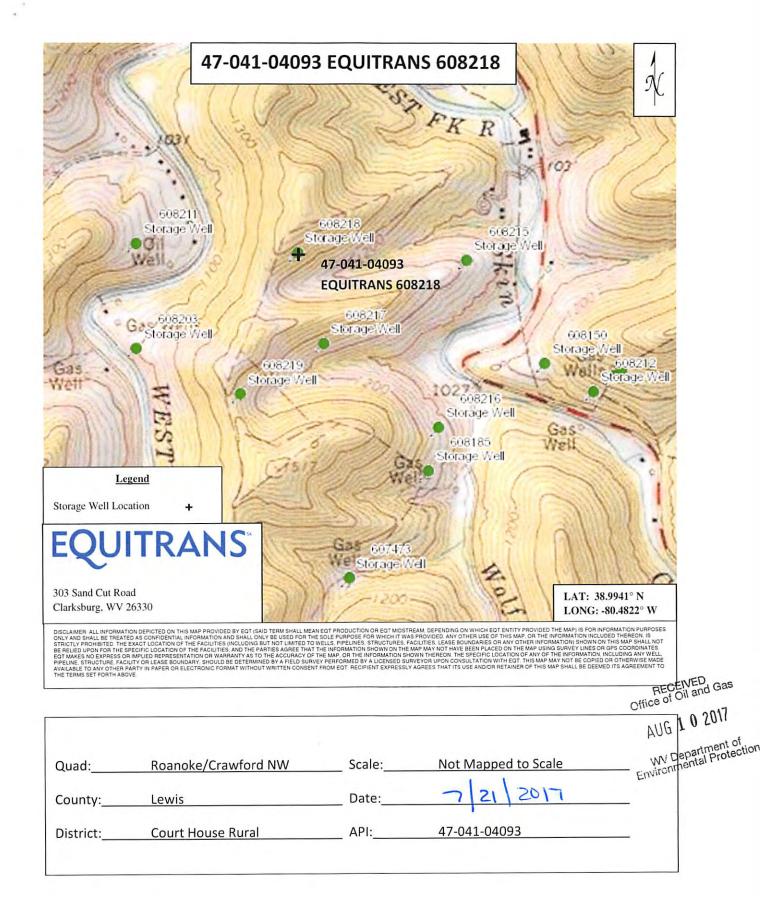
### List of Ohio SWDs 6.13.2013

<u>Wells</u>	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	Trumbuli	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 ≤ພເພ <sup>#</sup>	Washington	Dunham	Ohio	34-167-2-3862	Heckmann Water Resources (CVR), Inc.
Goff #1 Applalachian Water (APP or AW	Muskingum S) Connelsville	Union	Qhio PA	34-119-2-8776	Heckmann Water Resources (CVR), Inc.

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AUG 10 2017

WV Department of Environmental Protection



WW-7 8-30-06



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

# WELL LOCATION FORM: GPS

WELLIO	CATION FURNI: GPS	
API: 47-041-04093	WELL NO.: 6082	218
FARM NAME: United Stat	es of America	
RESPONSIBLE PARTY NAME:		
COUNTY: Lewis	DISTRICT: Court H	ouse Rural
QUADRANGLE: Roanoke/	Crawford NW	
SURFACE OWNER: US Arm	ny Corps of Engineers	
ROYALTY OWNER: U.S. Bureau	u of Land Management, Division of Natu	ural Resources
UTM GPS NORTHING: 43162	249.3534297	
UTM GPS EASTING: 544841.	06185686 GPS ELEVATION:	417.576m (1370 ft)
preparing a new well location plat for above well. The Office of Oil and G the following requirements:	05 meters	umber on the  t do not meet  Altitude:
Real-T	ime Differential	Office of Oil and Gas
Mapping Grade GPS X : Post		AUG 1 0 2017
	al-Time Differential	WV Department of Environmental Protection
I the undersigned, hereby certify this	s data is correct to the best of my known required by law and the regulations is Gas.  Title	ledge and
× .		00/04/0047