



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, October 02, 2017
WELL WORK PERMIT
Vertical / Plugging

EQUITRANS, L. P.
625 LIBERTY AVENUE SUITE 1700

PITTSBURGH, PA 152220000

Re: Permit approval for LAWLIS 8271
47-049-01940-00-00

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:
Farm Name: CONSOLIDATION COAL CO
U.S. WELL NUMBER: 47-049-01940-00-00
Vertical / Plugging
Date Issued: 10/2/2017

Promoting a healthy environment.

10/06/2017

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.

4901940P

WW-4B
Rev. 2/01

1) Date _____, 20____
2) Operator's
Well No. 608271
3) API Well No. 47-049 - 01940

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 1021' Watershed Owen Davy Fork of Buffalo Creek
District Mannington County Marion Quadrangle Glover Gap 7.5'

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 Sam Ward
Address P.O. Box 2327
Buckhannon, WV 26201
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 8/18/2017

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Well Schematic
 Equitrans, L.P.
FINAL Condition of GSW 8271

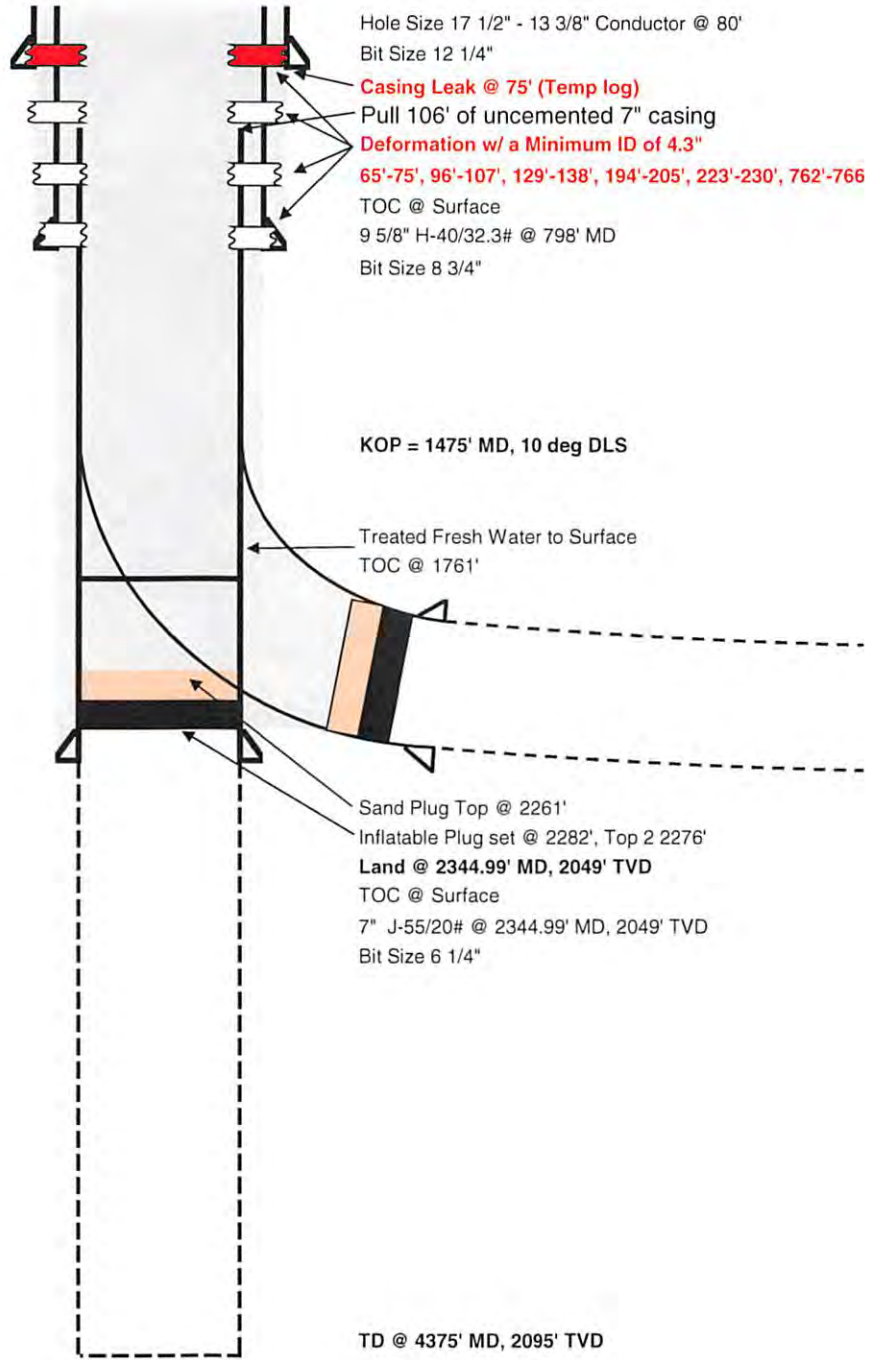
Well Name # 8271
 County Marion
 State WV

Elevation GL: 1021'
 Target Keener Sand
 Prospect Logansport Storage

MEASURED DEPTH

0' —
 500' —
 1,000' —
 1,500' —
 2,000' —
 2,500' —
 3,000' —
 3,500' —
 4,000' —
 4,500' —

748' Fresh Water
 742' Pittsburgh Coal
 1455' 1st Gas Sand
 1539' 1st Salt Sand A
 1581' 1st Salt Sand B
 1613' 1st Salt Sand C
 1733' 2nd Salt Sand A
 1772' 2nd Salt Sand B
 1787' 2nd Salt Sand C
 1913' Maxton Sand
 1993' Big Lime
 2036' Keener
 2070' Big Injun



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Well Schematic Equitable Resources Current Condition of GSW 8271

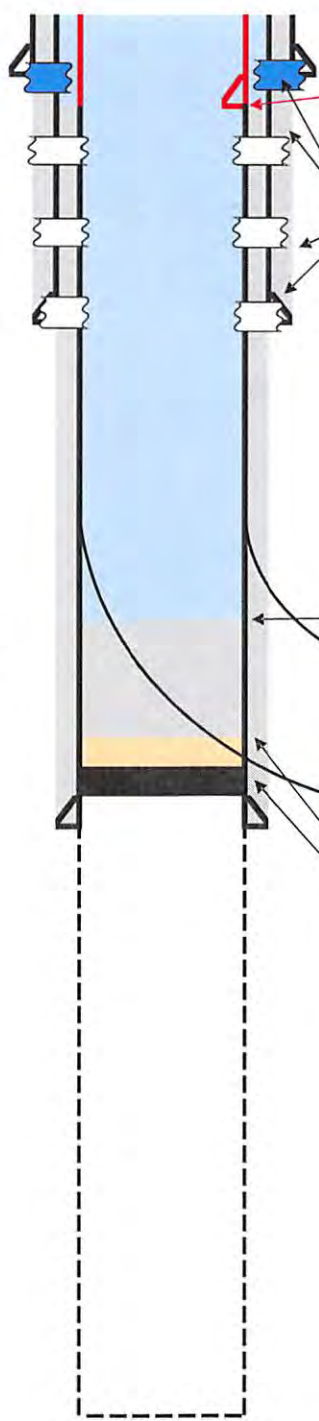
Well Name # 8271
County Marion
State WV

Elevation GL: 1021'
Target Keener Sand
Prospect Logansport Storage

MEASURED DEPTH

0' —
500 —
1,000 —
1,500 —
2,000 —
2,500 —
3,000 —
3,500 —
4,000 —
4,500 —

748' Fresh Water
742' Pittsburgh Coal
1455' 1st Gas Sand
1539' 1st Salt Sand A
1581' 1st Salt Sand B
1613' 1st Salt Sand C
1733' 2nd Salt Sand A
1772' 2nd Salt Sand B
1787' 2nd Salt Sand C
1913' Maxton Sand
1993' Big Lime
2036' Keener
2070' Big Injun



Hole Size 17 1/2" - 13 3/8" Conductor @ 80'
Bit Size 12 1/4"
At 106' milled window through 7" and 9-5/8" casing at deformed and deviated section in the well. Filled kickoff w/ cement and ran 106' of new 7" casing w/ ramp oriented to guide workstring back into existing 7" casing SIDE TRACK
Casing Leak @ 75' (Temp log)
Deformation w/ a Minimum ID of 4.3"
65'-75', 96'-107', 129'-138', 194'-205', 223'-230', 762'-761'
TOC @ Surface
9 5/8" H-40/32.3# @ 798' MD
Bit Size 8 3/4"
KOP = 1475' MD, 10 deg DLS
Treated Fresh Water to Surface
TOC @ 1761'
Sand Plug Top @ 2261'
Inflatable Plug set @ 2282', Top 2 2276'
Land @ 2344.99' MD, 2049' TVD
TOC @ Surface
7" J-55/20# @ 2344.99' MD, 2049' TVD
Bit Size 6 1/4"

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TD @ 4375' MD, 2095' TVD

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PAGE 1

Cancel

GPS YES [] NO [X]

DATE STARTED/LOCATION:	API #:	WELL NO.
DRILLING COMMENCED:	OPERATOR:	
TD DATE:	DEPTH:	FARM:
WATER DEPTHS	COAL DEPTHS	

QUESTIONS FOR THIS REPORT ARE IN ACCORDANCE OF WV CODE 22-6-30 AND REGULATIONS 35CSR 4-12.1 AND 35CSR 4-16 AND THE GENERAL WATER POLLUTION CONTROL PERMIT

POINTS ARE TO BE GIVEN UP TO MAXIMUM AS SHOWN BASED ON PERFORMANCE.

- DID OPERATOR GIVE PROPER NOTICE TO INSPECTOR BEFORE THE FOLLOWING:
 - A. CONSTRUCTION YES [] NO [] (2_PTS)
 - B. DRILLING YES [] NO [] (2_PTS)
- WAS THE TIMBER CUT, STACKED, AND BRUSH USED FOR SEDIMENT BARRIERS BEFORE DIRT WORK STARTED? YES [] NO [] (4_PTS)
- ARE ALL LOCATION AND/OR ROAD BANKS BEING SLOPED? YES [] NO [] (4_PTS)
- CONSTRUCTION: WERE THE FOLLOWING SEDIMENT CONTROL STRUCTURES PROPERLY INSTALLED/MAINTAINED?
 - A. ROAD DITCHES (1)_ (2)_ (3)_ (4)_ (PTS)
 - B. CROSS DRAINS (1)_ (2)_ (3)_ (4)_ (5)_ (PTS)
 - C. CULVERTS (1)_ (2)_ (3)_ (4)_ (5)_ (PTS)
 - D. CREEK CROSSINGS (1)_ (2)_ (3)_ (PTS)
 - E. DIVERSION DITCHES (1)_ (2)_ (3)_ (PTS)
 - F. BARRIERS (1)_ (2)_ (3)_ (PTS)
 - G. TEMPORARY SEEDING YES [] NO [] (10_PTS)
- HAS TOP SOIL (IF ANY) BEEN STOCKED PILED? YES [] NO [] (2_PTS)
- IS THE PIT PROPERLY INSTALLED AND MAINTAINED? YES [] NO [] (9_PTS)
- RECLAMATION:
 - A. ROADWAY (1)_ (2)_ (3)_ (PTS)
 - B. LOCATION (1)_ (2)_ (3)_ (PTS)
 - C. PITS (1)_ (2)_ (3)_ (PTS)
 - D. PIPELINES (1)_ (2)_ (3)_ (PTS)
 - E. TANK DIKES (1)_ (2)_ (3)_ (PTS)
 - F. API INSTALLED YES OR NO 3_ (PTS)
 - G. ADEQUATE SEEDING MATERIALS (1)_ (2)_ (3)_ (PTS)
 - H. WAS SEED BED ADEQUATE (1)_ (2)_ (3)_ (PTS)
- WAS RECLAMATION COMPLETED WITHIN:
 - 6 MTHS OF TD 6_PTS ONLY;
 - 4 MTHS OF TD 12_PTS ONLY;
 - 2 MTHS OF TD 19_PTS ONLY.

TOTAL MAXIMUM POSSIBLE SCORE OF 99.

TOTAL RECLAMATION SCORE: _____

INSPECTIONS :

Cancel Permit Operator Request

Plugging Permit Submitted

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8/18/2017
DATE RELEASED

[Signature]
INSPECTOR

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WR-35
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State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

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API 47-049-01940 County Marion District Mannington
Quad Glovers Gap 7.5' Pad Name Lawlis Field/Pool Name Logansport
Farm name John Lawlis Well Number 608271
Operator (as registered with the OOG) Equitrans, L.P.
Address 625 Liberty Ave. City Pittsburgh State PA Zip 15222

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4374436.7 Easting 548122.5
Landing Point of Curve Northing 4374360.7 Easting 547965.1
Bottom Hole Northing 4374112.0 Easting 547432.0

Elevation (ft) 1021' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
Bentonite with KCl

Date permit issued 3/20/2008 Date drilling commenced 10/14/2008 Date drilling ceased 11/8/2008
Date completion activities began _____ Date completion activities ceased _____
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 746' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1220' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 740' Cavern(s) encountered (Y/N) depths N

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

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API 47-049 - 01940

Farm name John Lawlis

Well number 608271

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	17.5"	16"	30'	New	N/A		Did not cement
Surface	14.75"	13.375"	80'	New	N/A		Y
Coal	12.375"	9.625"	808'	New	J-55 40#		Y
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	8.75"	7"	2345'	New	J-55 23#	1620', 2315'	Y
Tubing							
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Class A neat	100			562	Surface	8
Coal	Class A	280	14.7	1.41	393	Surface	8
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	Class A	320	14.7	1.41	449	Surface	18
Tubing							

Drillers TD (ft) 4365' MD

Loggers TD (ft) 2180' TVD

Deepest formation penetrated Big Injun

Plug back to (ft) 1223' TVD

Plug back procedure Plugged back vertical hole from 2180' to 1223' with 208 sacks (225 Cu. Ft.) Class A at 16.5 ppg with a yield of 1.08

Kick off depth (ft) 1475' MD

Check all wireline logs run

caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No

Conventional Sidewall

Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING

Total of 18 centralizers on production string on joints:

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, and 36.

WAS WELL COMPLETED AS SHOT HOLE Yes No

DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No

DETAILS 2345' MD to 4365' MD in the Keener Sand

WERE TRACERS USED Yes No

TYPE OF TRACER(S) USED _____

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API 47- 049 - 01940 Farm name John Lawlis Well number 608271

PRODUCING FORMATION(S)	DEPTHS	
Keener	2029'-2056'	TVD MD

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Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1000 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd
GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	0		0		
Pittsburgh Coal	740	746			
1st Gas Sand	1348	1376			
1st Salt Sand	1434	1515			
2nd Salt Sand	1582	1631			
Maxton	1918	1963			
Big Lime	1976	2026			
Keener	2029	2056			
Big Injun	2063	2154			

Please insert additional pages as applicable.

Drilling Contractor Highland Drilling
Address 900 Virginia Street East City Charleston State WV Zip 25301

Logging Company Schlumberger
Address 229 Capital Street City Charleston State WV Zip 25301

Cementing Company Halliburton
Address New Jackson S Mill Road City Jane Lew State WV Zip 26378

Stimulating Company _____
Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Brian A. Hall Telephone 304-627-6419
Signature Brian A. Hall Title Senior Storage Specialist Date 10/06/2017

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Submital of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

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WV Department of
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WW-4A
Revised 6-07

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1) Date: _____
2) Operator's Well Number
608271

3) API Well No.: 47 - 049 - 01940

**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>Consol Mining Company, LLC</u>	Name <u>Murray Energy Corporation</u>
Address <u>ATTN: Eric Large, Manager of Land Corporate and Holdings</u>	Address <u>46226 National Road</u>
(b) Name <u>1000 Consol Energy Dr</u>	(b) Coal Owner(s) with Declaration
Address <u>Cannonsburg, PA 15317-6506</u>	Name <u>N/A</u>
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 2327</u>	Name <u>N/A</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-389-7583</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.

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
 Deborah Jean McCune, Notary Public
 City of Pittsburgh, Allegheny County
 My Commission Expires April 29, 2020
 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

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

Subscribed and sworn before me this 25th day of July 2017
Deborah Jean McCune Notary Public
 My Commission Expires 4/29/2020

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.

10/06/2017

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WW-9
(5/16)

AUG 31 2017

API Number 47 - 049 - 01940

Operator's Well No. 608271

WV Department of
Environmental Protection

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) Owen Davy Fork Quadrangle Glover Gap 7.5

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 Macken*

Company Official (Typed Name) Justin Macken

Company Official Title VP Gas Systems Planning

Subscribed and sworn before me this 25th day of July, 20 17

Deborah Jean McCune
My commission expires 7/29/2020

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Deborah Jean McCune, Notary Public
City of Pittsburgh, Allegheny County
My Commission Expires April 29, 2020
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL
Deborah Jean McCune
City of Pittsburgh, AL
My Commission Expires 10/06/2017
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

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Form WW-9

Operator's Well No. 608271

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: *[Signature]*

Comments: Existing Site

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Title: OOG Inspector Date: 8/18/2017

Field Reviewed? Yes No

10/06/2017

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

Region	Facility Type	Facility Location Name	Street	City	State	Zip Code
Manufacturing	Disposal Well	Nichols (SWIW #13) 1 - A	10555 Veto Road	Bellevue	OH	44714
	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 ?	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 Lynns (Genet) 1	7700 Lincoln Street	East Canton	OH	44730

List of Ohio SWDs 6.13.2013

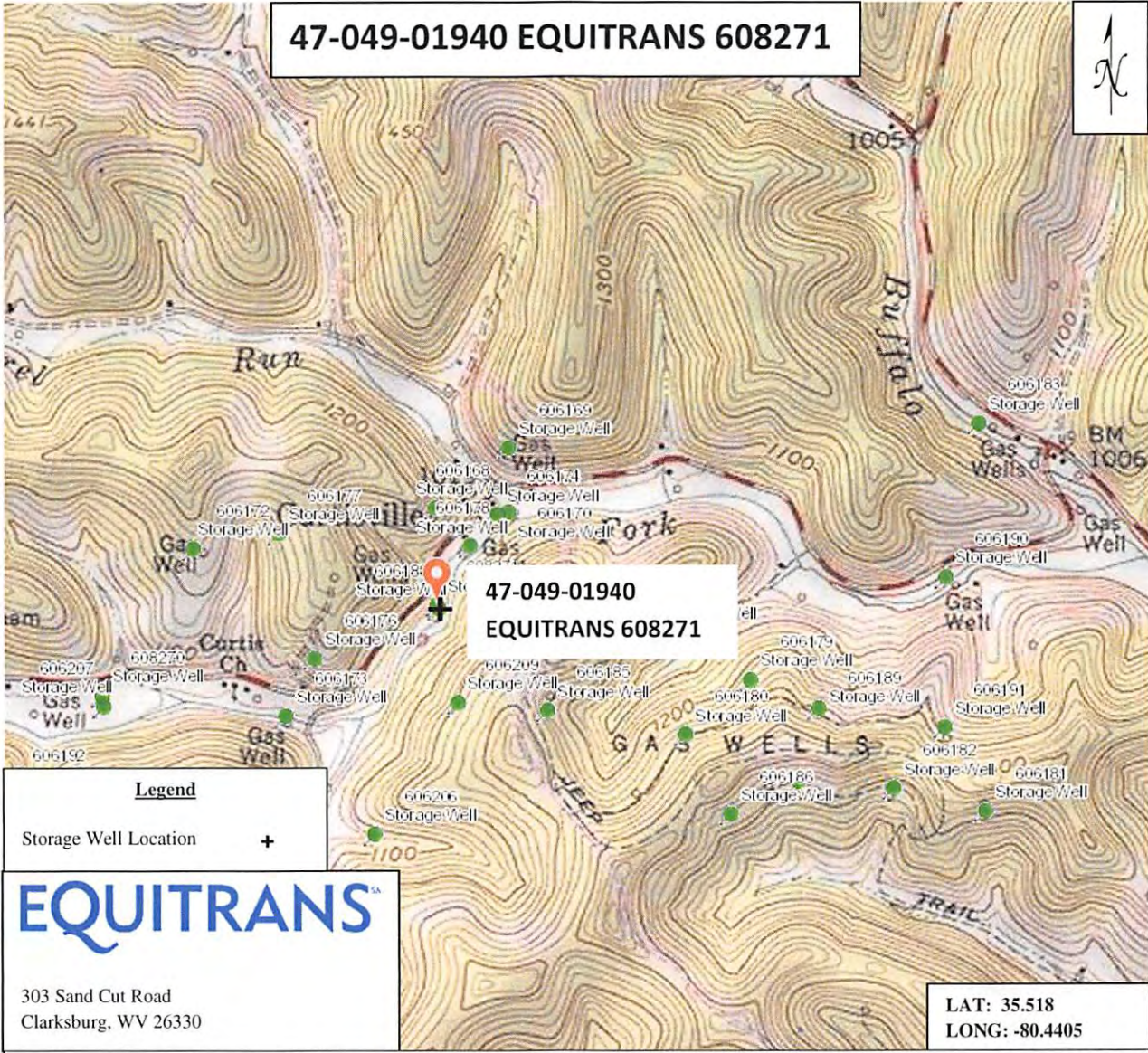
Wells	County	Township	State	Permit #s	Entity
Belden & Blake #2	Stark	Marlboro	Ohio	34-151-2-3420	Heckmann Water Resources (CVR), Inc.
Blazek #2	Portage	Hiram	Ohio	34-133-2-0525	Heckmann Water Resources (CVR), Inc.
Lyons #1	Stark	Osnaburg	Ohio	34-151-2-1198	Heckmann Water Resources (CVR), Inc.
Pander 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)	Connetsville	N/A	PA	2608201	

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Environmental Protection

10/06/2017



47-049-01940 EQUITRANS 608271



Legend
Storage Well Location +

EQUITRANS^{SA}
303 Sand Cut Road
Clarksburg, WV 26330

**LAT: 35.518
LONG: -80.4405**

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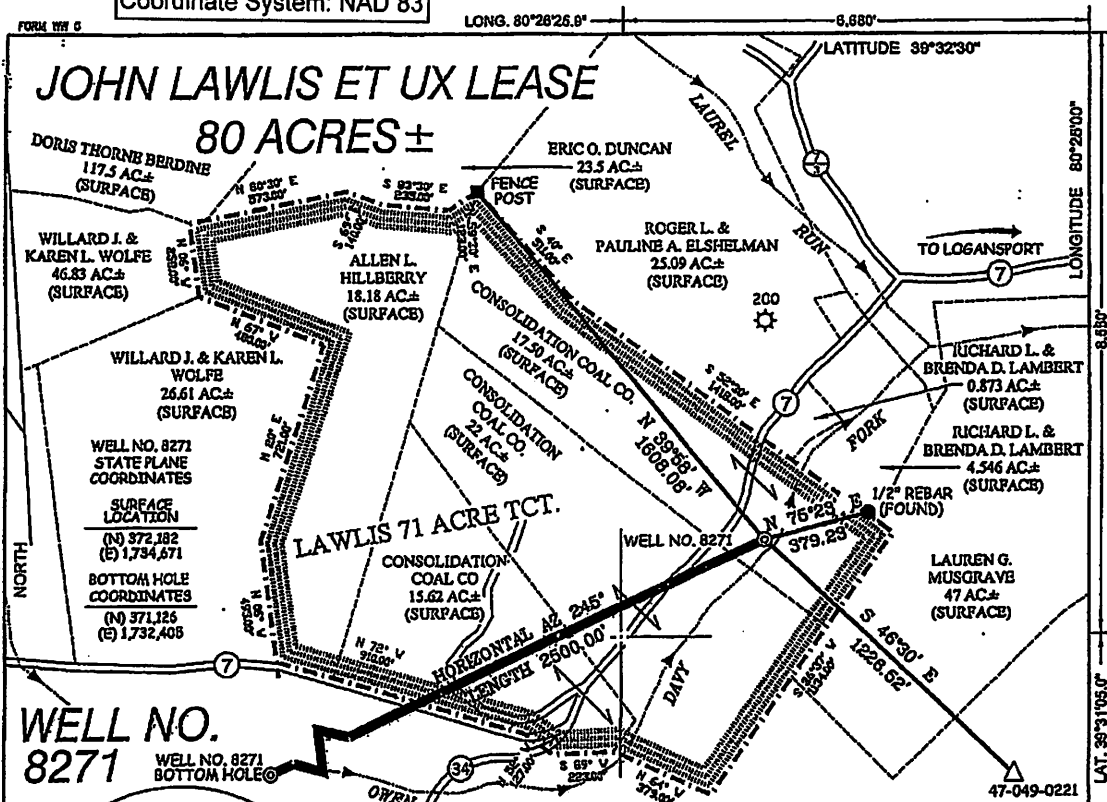
Quad: Glover Gap 7.5 Scale: Not Mapped to Scale
 County: Marion Date: 8/4/2017
 District: Mannington API: 47-049-01940

RECEIVED
Office of Oil and Gas
AUG 31 2017
10/06/2017
WV Department of
Environmental Protection

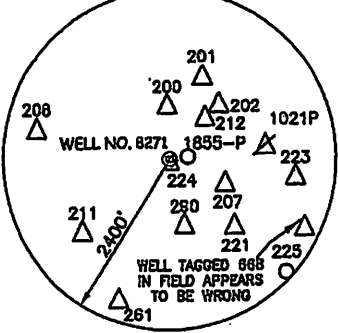
Latitude: 39.31013
 Longitude: -80.44033
 Coordinate System: NAD 83

49 019 40W

49 01940P

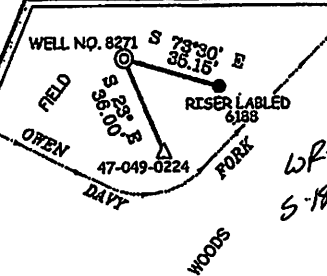


WELL NO. 8271
 WELL NO. 8271 BOTTOM HOLE



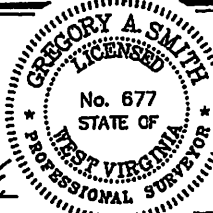
- NOTES ON SURVEY**
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
 2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 04/18/07.
 3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM ORIGINAL PLAT FOR WELL AP# 47-049-0224 DATED APRIL 10, 1951 BY KENNETH B. MOORE.
 4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARION COUNTY IN JULY, 2006.
 5. WELL LAT./LONG. ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).
 6. PER PHONE CONVERSATION WITH EQUITRANS ON 08/15/07 THE BOTTOM HOLE LOCATION OF PROPOSED GAS WELL 8271 IS COMPLETELY WITHIN THE LOGANSPORT STORAGE FIELD.

REFERENCES



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 Office of Oil and Gas
 AUG 31 2017
 WV Department of
 Environmental Protection

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 DIVISION OF ENVIRONMENTAL PROTECTION.



P.S. *Gregory A. Smith*
 677

(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 DATE MAY 15 20 07
 OPERATORS WELL NO. 21 2016
 API WELL NO. 47-049-01940
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2600 FILE NO. 5301P8271 (223-69)
 SCALE 1" = 500'
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE)

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

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION ___ STORAGE X DEEP ___ SHALLOW X

LOCATION: ELEVATION 1,021' WATERSHED OWEN DAVY FORK OF BUFFALO CREEK
 DISTRICT MANNINGTON COUNTY MARION QUADRANGLE GLOVER GAP 7.5

SURFACE OWNER CONSOLIDATION COAL COMPANY ACREAGE 17.50±
 ROYALTY OWNER WILLIAM M. BURNSIDE, ET AL. LEASE ACREAGE 80±
 PROPOSED WORK: LEASE NO. 24832

DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD
 FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER X
 PHYSICAL CHANGE IN WELL (SPECIFY) "CLEAN UP THROUGH BIG INJUN TARGET FORMATION BIG INJUN & KEENER
 AND ACIDIZE KEENER" ESTIMATED DEPTH 2,085'

WELL OPERATOR EQUITRANS, L.P. DESIGNATED AGENT WILLIAM HOSTUTLER
 ADDRESS 225 NORTSHORE DRIVE ADDRESS P.O. BOX 1550
PITTSBURGH, PA 16212 CLARKSBURG, WV 26302

COUNTY NAME
 PERMIT

10/06/2017

