

west virginia department of environmental protection

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

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

Wednesday, June 13, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

#### Re: Permit approval for CHARLES FRYE OHI 610H 47-069-00280-00-00

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: U.S. WELL NUMBER: Horizontal 6A Date Issued: 6/13/2018 CHARLES FRYE OHI 610H DORTHY V. FRYE (LIFE ESTA 47-069-00280-00-00

Promoting a healthy environment.

API Number: <u>47 069 00280</u>

# **PERMIT CONDITIONS**

West Virginia Code § 22-6A-8(d) 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. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. 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 § 22-6A-5a (12), 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 one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: 47 069 00280

# **PERMIT CONDITIONS**

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, 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.

WW-6B (04/15)

4706900280 API NO. 47-069 OPERATOR WELL NO. Charles Frye OHI 610H Well Pad Name: Charles Frye OHI Pad

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

1) Well Operator: SWN Pro	duction Co., LLC	494512924	069-Ohio	6- Triade 648-Valley Grov
.,		Operator ID	County	District Quadrangle
2) Operator's Well Number:	Charles Frye OHI	610H Well Pa	ad Name: Cha	arles Frye OHI Pad
3) Farm Name/Surface Owner	Corothy, David, Amy & Co	<sup>corrie Frye</sup> Public Ro	ad Access: M	arlow Run Road
4) Elevation, current ground:	1266.9' E	levation, proposed	d post-construc	ction: 1266.9'
5) Well Type (a) Gas X Other	Oil	Uno	derground Stor	rage
(b)If Gas S	hallow X	Deep		
F	Iorizontal X		1-	120,
6) Existing Pad: Yes or No Υ	es		_ (	1910 4.10.18
7) Proposed Target Formation				Pressure(s): ated Thickness- 37', Associated Pressure-4332
8) Proposed Total Vertical De	pth: 6636'			
9) Formation at Total Vertical	Depth: Marcellu	S		
10) Proposed Total Measured	Depth: 13,495'			
11) Proposed Horizontal Leg	Length: 3464'			
12) Approximate Fresh Water	Strata Depths:	548'		
13) Method to Determine Free	sh Water Depths:	Nearby Water W	ell & Salinity	Profile
14) Approximate Saltwater D		ity profile analysis		
15) Approximate Coal Seam I				
16) Approximate Depth to Po	· · · · · · · · · · · · · · · · · · ·	nine, karst, other):	628' possible	e void
17) Does Proposed well locati directly overlying or adjacent		ıms Yes	N	No X
(a) If Yes, provide Mine Info	o: Name:			
	Depth:		_	RECEIVED Ga
	Seam:			Office of Un
	Owner:			APR 1 3 2018
				WW Depaitment Environmental Prot



API NO. 47-069 - 00280

OPERATOR WELL NO. Charles Frye OHI 610H Well Pad Name: Charles Frye OHI Pad

WW-6B (04/15)

18)

#### CASING AND TUBING PROGRAM

TYPE	Size (in)	<u>New</u> or Used	<u>Grade</u>	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100' 🗸	CTS
Fresh Water	13 3/8"	New	H-40	48#	668'	668'	625 sx/CTS
Coal							
Intermediate	9 5/8"	New	J-55	36#	2097'	2097' 🗸	789 sx/CTS
Production	5 1/2"	New	HCP-110	20#	13495'	13495'	lead 980 sx Tail 1582 sx inside intermedi
Tubing							
Liners							

5.00 4.10.12

TYPE	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Intermediate	7"	8 3/4"	0.317	4360	3250	Class A	1.20/50% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/50% Excess
Tubing							
Liners							

#### PACKERS

Kind:	
Sizes:	
Depths Set:	Office of Oil an
	APR 1 8 7

WV Department of Environmental Protection

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API NO. 47069	$\mathcal{O}$	0280
OPERATOR WELL	. NO.	Charles Frye OHI 610H
Well Pad Name:	Charle	s Frye OHI Pad

#### 19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and stimulate any potential zones between and including the Benson to Marcellus. \*\*If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface. Run casing not less than 20' below void nor more than 50' below void. (\*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

#### 20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. The well is produced through surface facilities consisting of high pressure production unites, vertical separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 80 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 13.6

22) Area to be disturbed for well pad only, less access road (acres): 12.0

23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

24) Describe all cement additives associated with each cement type:

See Attachment \*\*\*

25) Proposed borehole conditioning procedures:

All boreholes will be conditioned with circulation and rotation for a minimum of continuing until operator is satisfied with borehole conditions.	one bottoms up and Gas
continuing until operator is satisfied with borehole conditions.	Office of Oil and Co

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\*Note: Attach additional sheets as needed.



47-069-00280

SWN Production Company, LLC P O Box 12359 Spring, Texas 77391-2359 www.swn.com



March 22, 2018

Ms. Laura Adkins Office of Oil & Gas 601 57<sup>th</sup> Street Charleston, WV 25304

RE: Proposed New Well Charles Frye OHI 610H

Dear Ms. Adkins

SWN has reviewed the area of the above mentioned well and discovered no shallow wells within 500' of the lateral. This well is situated on the Frye's property, in Triadelphia District, Ohio County, West Virginia.

If you have any questions or desire additional information, please me at 304-884-1614.

Thank you. Sincerely,

Dee Southall Senior Regulatory Analyst Southwestern Energy Production Company, LLC

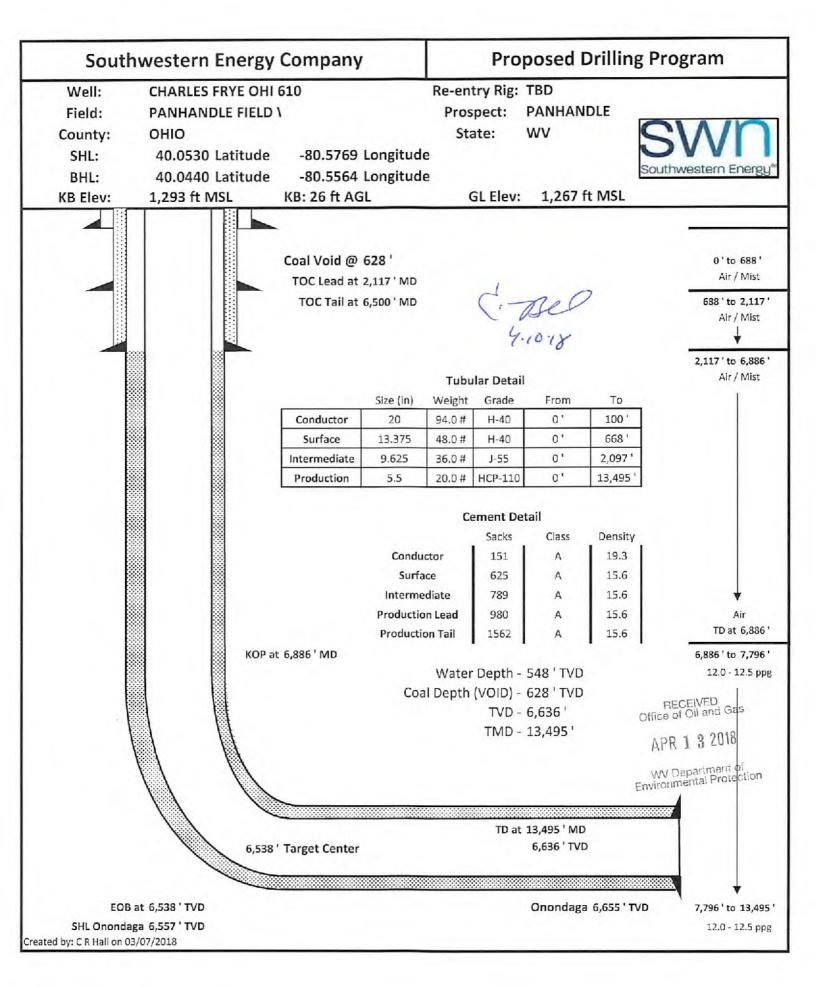
> RECEIVED Office of Oil and Gas

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The Right People coing the Right Thips wisely investing 05/ash5/2018 underlying Assets, will create Value+®



# 47069 00280

	Product Name	Product Use	Chemical Name	CAS Number
Surface	5001	accelerator	calcium chloride	10043-52-4
intermediate Surface	5001	accelerator	calcium chloride	10043-52-4
_	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
õ "	D801	retarder	aromatic polymer derivative	propriatary
Kick Off Plug	D047	antifoam	polypropylene glycol	25322-69-4
	D167	fluid loss	aliphatic amide polymer	propriatary
	D154	extender	non-crystalline silica	7631-86-9
	D400	gas migration	boric acid	10043-35-3
			polypropylene glycol	25322-69-4
per	D046	antifoam	fullers earth (attapulgite)	8031-18-3
Production-Lead			chrystalline silica	14808-60-7
	D201	retarder	metal oxide	propriatary
- <sup>m</sup>			sulphonated synthetic polymer	propriatary
Pro	D202	dispersant	formaldehyde (impurity)	propriatary
			polypropylene glycol	25322-69-4
	D046	antifoam	fullers earth (attapulgite)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	propriatary
18			sodium polynaphthalene sulfonate	9008-63-3
Ë-e	D065	dispersant	sodium sulfate	7757-82-6
Production-Tall			chrystalline silica	14808-60-7
- P	D201	retarder	metal oxide	propriatary
L ž	D153	anti-settling	chrystalline silica	14808-60-7

number based parts

#### Schlumberger Cement Additives

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Environmental Protection

WW-9	10 250
(4/16)	API Number 47 - 69 - 00 280
STAT	Operator's Well No. Charles Frye OHI 610H
	F ENVIRONMENTAL PROTECTION FICE OF OIL AND GAS
FLUIDS/ CUTTING	S DISPOSAL & RECLAMATION PLAN
Operator Name_SWN Production Company, LLC	OP Code 494512924
Watershed (HUC 10) Marlow Run of Middle Wheeling	Creek Quadrangle Valley Grove
Do you anticipate using more than 5,000 bbls of water t Will a pit be used? Yes No	o complete the proposed well work? Yes <u>V</u> No <u>No</u>
If so, please describe anticipated pit waste:	closed loop system in place at this time- cuttings will be taken to a permitted landfill
Will a synthetic liner be used in the pit? Yes _	No 🖌 If so, what ml.?
Proposed Disposal Method For Treated Pit Wa	istes:
Land Application	
<ul> <li>Underground Injection (UIG</li> </ul>	C Permit Number 34-155-22403, 34-059-24067, 34-119-28776, 34-167-23802, 34-165-23785, 34-121-23985, 34-155-21893
Reuse (at API Number_at ne.	xt anticipated well, API # will be included with the WR-34/DDMR &/or permit addendum)
	orm WW-9 for disposal location)
Other (Explain flow back flui	ds will be put in steel tanks and reused or taken to a permitted disposal facility
Will closed loop system be used? If so, describe: yes	
Drilling medium anticipated for this well (vertical and h	norizontal)? Air, freshwater, oil based, etc at deal to KOP, to id drall with SOBM from KOP to TD
-If oil based, what type? Synthetic, petroleum,	, etc. synthetic oil base 🗸
Additives to be used in drilling medium? Attachment 3A	, <i>J</i>
Drill cuttings disposal method? Leave in pit, landfill, re	
-If left in pit and plan to solidify what medium	will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number?	w SWF-1032 SS grading SWF-4902, Northwestern SWF-1025, Short Creek 1034/W/0109517/CID28726, Carbon Limeaton 28725-CID28726
Permittee shall provide written notice to the Office of O West Virginia solid waste facility. The notice shall be p	bil and Gas of any load of drill cuttings or associated waste rejected at any rovided within 24 hours of rejection and the permittee shall also disclose
Permittee shall provide written notice to the Office of O West Virginia solid waste facility. The notice shall be p where it was properly disposed. I certify that I understand and agree to the term on August 1, 2005, by the Office of Oil and Gas of the V	il and Gas of any load of drill cuttings or associated waste rejected at

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	RECEIVED Office of Oil and Gas
Company Official (Typed Name) Dee Southall	APR 1 3 2018
Company Official Title Senior Regulatory Analyst	WV Department of Notary Public, State of West Virture Environmental Protection State Of Elkins Rond Beck hannon, WV 26201
Subscribed and sworn before me this Sth day of Opp	My contrasticit expires November 27. 127
Duttany K Woody	Notary Public
My commission expires 11 d d d d	06/15/2018

Form	<b>WW-9</b>
------	-------------

oposed Revegetation Trea	tment: Acres Disturbed 1	3.6	Prevegetation pH	·
Limeas determined by pH	Tons/acre or to correct	ct to pH 12.0		
Fertilizer type 10	-20-20			
Fertilizer amount	600	lbs/acre		
Mulch Hay/Stra	w 2.5	Tons/acre		
		Seed Mixtures		
Т	emporary		Perma	nent
Seed Type	lbs/acre		Seed Type	lbs/acre
Attachment 3B				

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, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: C. D. 4.10.18	
Comments:	
	RECEIVED Office of Oil and Gas
Title: oil and gas inspector Date: 4-0	0-8 APR 1 3 2018
Field Reviewed?	WV Department of Environmental Protection

# 47 069-00280

### Attachment 3A

## **Drilling Mediums**

Synthetic Oil
Brine
Barite
Calcium Chloride
Lime
Organophilic Bentonite
Primary and Secondary Emulsifiers
Gilsonite
Calcium Carbonate
Friction Reducers

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Southwestern Energy*	WVD Seeding Specification		$\frac{R^{2}}{A} \rightarrow V^{+}$
To Order Se NON-ORGANIC PROPERTIES	eed contact Lyndsi Eddy Flippo office 570-996-4271 cell 501-26	69-5451 lyndsi_eddy@swn.com (please allow 7 to 10 days for ORGANIC PROPERTIES	or delivery)
Seed Mixture: ROW Mix	SWN Supplied	Seed Mixture: SWN Production Organic Mix	x SWN Supplied
Orchardgrass Timothy Annual Ryegrass Brown Top Millet Red Top Medium Red Clover White Clover Birdsfoot Trefoil Rough Bluegrass Apply @ 100lbs per acre April 16th- Oct. 14th	40% 15% 5% 5% 5% 5% All legumes are 5% innoculated at 5x normal 5% rate 5% Apply @ 200lbs per acre Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat	Organic Timothy Organic Red or White Clover OR Organic Perennial Ryegrass Organic Red or White Clover Apply @ 100lbs per acre April 16th- Oct. 14th Organic Fertilizer @ 200lbs per Acre	50% 50% 50% Apply @ 200lbs per acre Oct. 15th- April 15th Pelletized Lime @ 2 Tons per Acre
SOIL AMENDMENTS	SUIDS PET ACTE OF WITHER WITHAL	WETLANDS (delineated as jurisdiction Seed Mixture: Wetland Mix	SWN Supplied
10-20-20 Fertilizer Pelletized Lime Seeding Calculation Information: 1452' of 30' ROW/LOD is One Acre 871' of 50' ROW/LOD is One Acre 622' of 70' ROW/LOD is One Acre	*Apply @ 500lbs per Acre Apply @ 2 Tons per Acre *unless otherwise dictated by soil test results	VA Wild Ryegrass Annual Ryegrass Fowl Bluegrass Cosmos 'Sensation' Redtop Golden Tickseed Maryland Senna	20% 20% 20% 10% 5% 5% 5% 5%
bags of fertilizer and (80) 50lb bags of Lin Wheat/ac). Special Considerations: Landowner Special Considerations including	, you should be using (2) 50lb bags of seed, (4) 50lb ime (2x seed in winter months + 50lb Winter g CREP program participants require additional ese requirements with SWN supervision at the	Fox Sedge Soft Rush Woolgrass	2.5% 2.5% 2.5% Apply @ 50lbs per acre Oct. 15th- April 15th

# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

	S		
	Productio 179 Innov	n Company, LLC ation Drive at Virginia 26378	
WELL NAM Val Tria	E: Cha ley Gr delphia	XXX-XXXXX rles Frye OHI 61 ove QUAD a DISTRICT WEST VIRGINIA	
Submitted by: Dee Southall Senior Regulatory	Date:	3/5/2018	
Title: Analyst	_ SWN F	Production Co., LLC	
Approved by: Title: Oil and As Imp		4-10-48	
Approved by:			
	Date:		
Title:			
nue	7		Office
			100

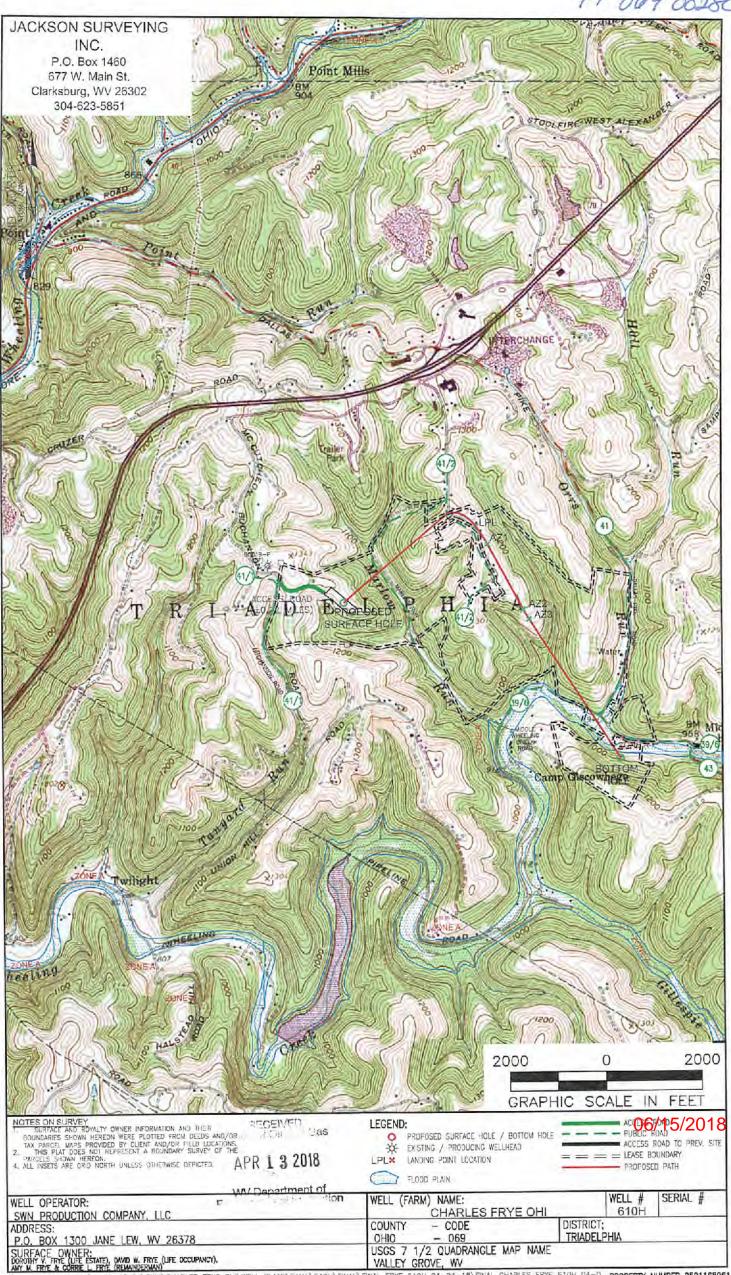
SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL

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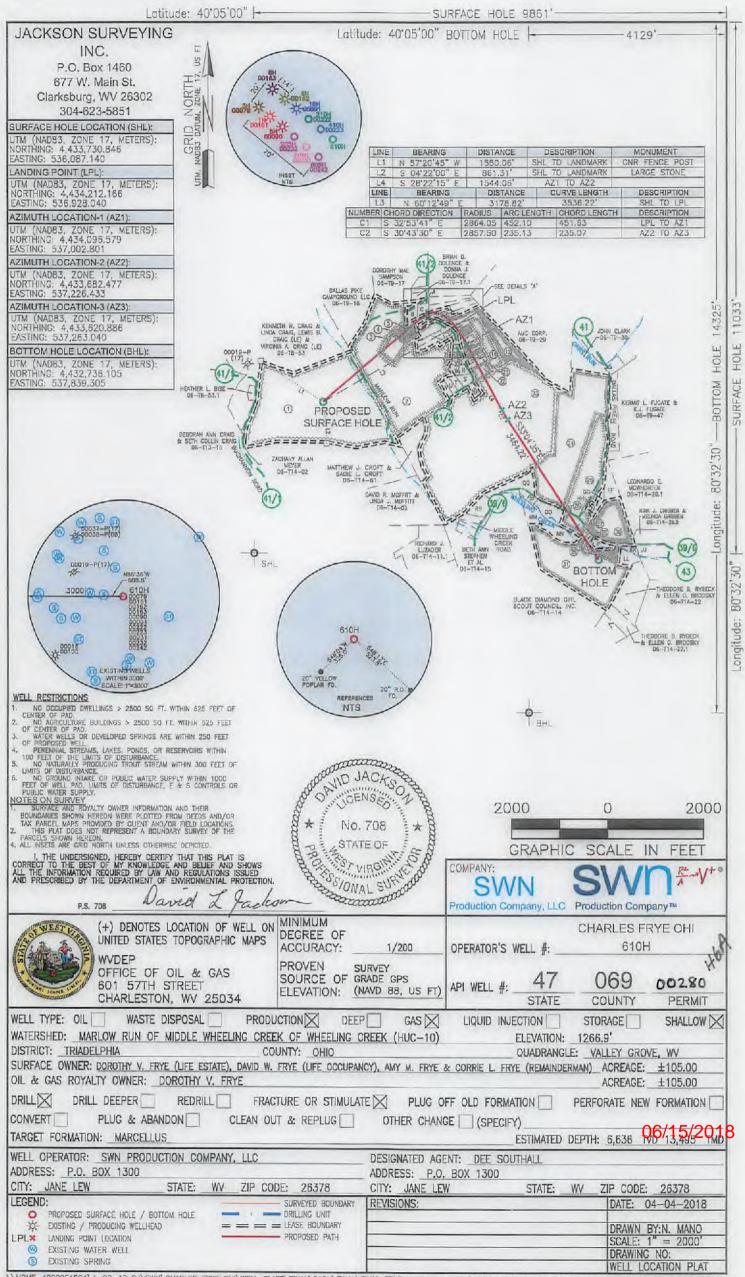
APR 1 3 2018

WV Department of Environmental Protection

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CHARLES FRYE OHIVWELL PLATS/FINAL/GIDII/FINAL/FINAL FRYE SIDH 04-04-18/FINAL CHARLES FRYE SIDH 04-0 PROPERTY NUMBER 2501168961 \HOME-40029E45C4\1-02-18 DJ\: WEENESDAY APRIL 04 2018 D9:47AM PAD ID 3001155647



VHOME-40029645C4\1-02-18 DJ\SWN\CHARLES FRYE OHI\WELL PLATS\FINAL\B10H\FINAL\FINAL FRYE 610H 04-04-18\FINAL CHARLES FRYE 610H 04-0 PROPERTY NUMBER 2501168961 WEDNESDAY APRIL 04 2018 10:11AM PAD ID 3001155647

IN       06-T9-20.         06-T9-20.       06-T9-20.         06-T14-2.       06-T14-2.         06-T14-2.       06-T14-2.         06-T14-2.       06-T14-2.         06-T14-2.       06-T14-2.         06-T14-1.       06-T14-1.         06-T14-1.       06/15/2(         /**       *         04-04-2018       *         N/A       *
BIE         06-T9-20.           BIE         06-T9-20.           06-T14-2.           06-
BIE         06-T9-20.           BIE         06-T9-20.           06-T14-2.           06-
BIE         06-T9-20.           BIE         06-T9-20.           06-T14-22.           06-T14-2.           06-T14-2.           06-T14-2.           06-T14-2.           06-T14-2.           06-T14-2.           06
BIE         06-T9-20.           BIE         06-T9-20.           06-T14-22.
BIE         06-T9-20.           BIE         06-T9-20.           06-T14-2.           06-T14-2.           06-T14-2.           06-T14-2.           06-T14-2.           06-T14-2.           06-T14-2.           06-
BIE         06-T9-20.           06-T9-20.         06-T9-20.           06-T14-22.         06-T14-22.
BIE         06-T9-20.           BIE         06-T9-20.           06-T14-22.           05-T14-24.           06-T14-25.           06-T14-26.           06-T14-27.           06-T14-26.           06-T14-27.
BIE         06-T9-20.           BIE         06-T9-20.           06-T14-22.           08-T14-24.           08-T14-24.
BIE         06-T9-20.           BIE         06-T9-20.           06-T14-22.           06
BIE         06-T9-20.           BIE         06-T9-20.
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\\HOME-40029E45C4\1-02-18 DJ\SWN\CHARLES FRYE OHI\WELL PLAT5\FINAL\61DH\FINAL\FINAL FRYE 610H D4-D4-18\FINAL CHARLES FRYE 510H D4-D WEDNESDAY APRIL 04 2018 09:47AM

WW-6A1 (5/13) Operator's Well No. Charles Frye OHI 610H

#### INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) 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:

ease Name or Number	Grantar Lassan ata	Combine Towns in		
Ivanibei	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
0	ee Exhibit	Grance, Eessee, etc.	Royalty	DOWL

#### 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.

Well Operator:	SWN Production	Company
By:	D	castborred
Its:	Steff Landman	

Page 1 of \_\_\_\_\_

# Office of Oil and Gas

APR 1 3 2018

WV Department of Environmental Protection



#### EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator

Charles Frye OHI	510H
Ohio County, West	Virginia

#	тмр	LESSOR	LESSEE	ROYALTY	BK/PG
1)	06-T14-01	Dorothy V. Frye, A widow	Great Lakes Energy Partners, LLC	12.50%	775/335
			Chesapeake Appalachia, L.L.C.		808/375
			SWN Production Company, LLC		883/204
2)	06-T9-20	George L. Dunn and Nancy M. Dunn, husband and wife	Chesapeake Appalachia, L.L.C.	14.00%	795/556
			SWN Production Company, LLC		885/524
3)	06-T9-20.44	Charles Porter and Sarah Ann Porter	Chesapeake Appalachia, L.L.C.	18.00%	807/294
			SWN Production Company, LLC		883/291
4)	6-T9-20.45	Phillip J. Marquart and Kersten Lynn Marquart, husband	Chesapeake Appalachia, L.L.C.	18.00%	808/41
		and wife	SWN Production Company, LLC		883/291
5)	6-T9-20.51	Herbert Lynn Richardson and Clara Eileen Richardson,	Chesapeake Appalachia, L.L.C.	18.00%	814/487
		husband and wife	SWN Production Company, LLC		883/243
6)	6-T9-20.6	Herbert Lynn Richardson and Clara Eileen Richardson,	Chesapeake Appalachia, L.L.C.	18.00%	814/487
		husband and wife	SWN Production Company, LLC		883/243
7)	6-T9-20.39	Patricia R. Kirchner, single	Chesapeake Appalachia, L.L.C.	18.00%	810/575
			SWN Production Company, LLC		883/180
8)	6-T9-20.16	James E. Dunn and Donna M. Dunn	Chesapeake Appalachia, L.L.C.	18.00%	810/664
			SWN Production Company, LLC		883/156
9)	6-T9-20.8	James E. Dunn and Donna M. Dunn	Chesapeake Appalachia, L.L.C.	18.00%	810/664
			SWN Production Company, LLC		883/156
10)	06-T9-20.11	David A. Williams and Janie G. Williams, husband and wife	Chesapeake Appalachia, L.L.C.	16.00%	877/525
,			SWN Production Company, LLC		895/477
11)	06-T9-20.13	David A. Williams and Janie G. Williams, husband and wife	Chesapeake Appalachia, L.L.C.	16.00%	877/525
			SWN Production Company, LLC		895/477

Office of Oil and Gas APR **J** 3 2018 Environmental Protection

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#### EXHIBIT "A"

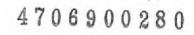
#### Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator Charles Frye OHI 610H

		Ohio County, Wes			
12)	06-T9-20	George L. Dunn and Nancy M. Dunn, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	795/556 885/524
13)	6-T9-20.35	Michael P. Orth & Brenda K. Orth, husband and wife	SWN Production Company, L.L.C.	15.00%	913/457
14)	6-T9-20.38	Bradley W. Hand and Rhonda L. Hand, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	795/552 885/524
15)	6-T9-20.48	Bradley W. Hand and Rhonda L. Hand, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	795/552 885/524
16)	6-T9-20.9	Michael R. Klein and Alicia M. Klein, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	827/648 885/332
17)	6-T9-20.12	Jody H. Usenick f/k/a Jody H. Orth, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	16.00%	880/148 895/462
18)	6-T9-20.33	Thomas C. Gantzer, Jr. and Victoria S. Gantzer, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	815/528 884/241
19)	6-T9-20.7	Thomas C. Gantzer, Jr. and Victoria S. Gantzer, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	815/540 884/241
20)	6-T9-20.4	Thomas C. Gantzer, Jr. and Victoria S. Gantzer, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	815/536 884/241
21)	6-T9-20.40	Thomas C. Gantzer, Jr. and Victoria S. Gantzer, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	815/532 885/284
22)	6-T9-20.10	Gregg Edward Bambarger, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	872/289 884/349

Office of Oil and Gas APR 1 3 2018 Environmental Protection

#### **EXHIBIT "A"** Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator Charles Frye OHI 610H Ohio County, West Virginia

		Olito Coulity, We			
23)	6-T14-12	Jeffrey D. McKenzie and Francine M. McKenzie, husband	NPAR, LLC	18.00%	807/570
		and wife	Chevron U.S.A. Inc.		827/269
			Chesapeake Appalachia, L.L.C.		867/713
			SWN Production Company, LLC		885/308
24)	6-T14-24.1	AMC, Inc.	Chesapeake Appalachia, L.L.C.	18.00%	846/113
			SWN Production Company, LLC		885/404
25)	6-T14-24	Gregory S. Edwards Leasing, Inc.	Chesapeake Appalachia, L.L.C.	18.00%	863/264
•			SWN Production Company, LLC		884/385
26)	Wheeling	West Virginia, Department of Transportation, Division of	Chesapeake Appalachia, L.L.C.	18.00%	857/213
	Run Road	Highways	SWN Production Company, LLC		884/289
27)	6-T14-23.4	John W. Orum, Jr. and Agnes A. Orum, his wife	Great Lakes Energy Partners, L.L.C.	12.50%	776/262
			Chesapeake Appalachia, L.L.C.		808/549
			SWN Production Company, LLC		883/204
28)	6-T14-23.9	Douglas Brian Orum, a single man	SWN Production Company, L.L.C.	18.00%	924/566
29)	6-T14-23.5	Douglas Brian Orum, a single man	SWN Production Company, L.L.C.	18.00%	924/566
30)	6-T14-23	Bertie Helen Orum, widow	Great Lakes Energy Partners, L.L.C.	12.50%	776/651
			Chesapeake Appalachia, L.L.C.		808/549
			SWN Production Company, LLC		883/192
31)	6-T14-23.10	Bertie Helen Orum, widow	Great Lakes Energy Partners, L.L.C.	12.50%	776/651
		·	Chesapeake Appalachia, L.L.C.		808/549
			SWN Production Company, LLC		883/192



SWN Production Company, LLC P O Box 12359 Spring, Texas 77391-2359 www.swn.com



April 4, 2017

Ms. Laura Adkins WV DEP Office of Oil & Gas 601 57<sup>th</sup> St., SE Charleston, WV 25304

**RE:** SWN's proposed New Well: Charles Frye OHI 610H in Ohio County, West Virginia, Drilling under Dallas Pike.

Dear Ms. Adkins:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Co Hwy Dallas Pike. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

VIC

Robert Walter Staff Landman SWN Production Company, LLC PO Box 12359 Spring, TX 77391-2359

Office of Oil and Gas APR 1 3 2018 WV Department of Environmental Protection

The Right People doing the Right Things, wisely investing the cash flow from our underlying Assets, will create Value,  $\frac{8}{06/15/2018}$ 

10000 Energy Drive Spring, TX 77389-4954 WW-6AC (1/12)

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

Date of Notice Certification:

#### API No. 47- 069 -Operator's Well No. Charles Frye OHI 610H Well Pad Name: Charles Frye OHI Pad

#### Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	West Virginia	UTM NAD 83	Easting:	536,087	
County:	069-Ohio	UTM NAD 85	Northing:	4,433,731	
District:	Triadelphia	Public Road Acc	ess:	Marlow Run Road	
Quadrangle:	Valley Grove	Generally used fa	arm name:	Charles Frye	
Watershed:	Marlow Run of Middle Wheeling Creek				

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED	RECEIVED
3. NOTICE OF INTENT TO DRILL OF NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF	RECEIVED/ NOT REQUIRED
U WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION     Contract Office of Oil and Gas	RECEIVED
5. PUBLIC NOTICE     APR 1 3 2018	
6. NOTICE OF APPLICATION     WV Department of     Environmental Protection	RECEIVED

#### **Required Attachments:**

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

WW-6AC (1/12)

#### Certification of Notice is hereby given:

#### THEREFORE, I Dee Southall

, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator:	SWN Production Co., LLC	Address:	P.O. Box 1300
By:	Dee Southall		Jane Lew, WV 26378
Its:	Senior Regulatory Analyst	Facsimile:	304-884-1690
Telephone:	304-884-1614	Email:	Dee_Southall@swn.com
the second	NOTARY SEAL OFFICIAL SEAL Notary Public, State of West Virginia BRIT TANY R WOODY 3302 Old Elkins Road Buckhannon, WV 25201 Ny commission expires November 27, 2527	BUTTOMY My Commission E	Forn before me this <u>5th</u> day of <u>Upful 2018</u> . R <u>MOODU</u> Notary Public Expires <u>11</u> <del>27</del> <del>2</del>

#### **Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

RECEIVED Office of Oil and Gas

APR 1 3 2018

WV Department of Environmental Protection

WW-6A	
(9-13)	

WELL WORK

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

Notice Time Requirement: notice shall	be provided no later than	the filing date of	permit application.
---------------------------------------	---------------------------	--------------------	---------------------

Date of Notice: 41118 Date I Notice of:		Date Permit Application Filed: 4/11/18	1
	PERMIT FOR AN		1

CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

PERSONAL	$\checkmark$	REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
SERVICE		MAIL	RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to:

☑ SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: Dorothy Frye & David Frye	Name: Alliance Resources GP, LLC % Elizabeth Acost
Address: 849 McCutcheon Road	Address: 2596 Battle Run Road
Triadelphia, WV 26059	Triadelphia, WV 26059
Name: Amy & Corrie Frye	COAL OPERATOR
Address: 782 McCutcheon Road	Name: Office of Oil and Gas
Triadelphia, WV 26059	Address:
□ SURFACE OWNER(s) (Road and/or Other Disturbance)	SURFACE OWNER OF WATER WELL
Name:	☑ SURFACE OWNER OF WATER WELL 3 2018
Address:	AND/OR WATER PURVEYOR(s) Environment
	AND/OR WATER PURVEYOR(s) WV Department of Name: See Attachment #1
Name:	Address:
Address:	
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
Address:	
	*Please attach additional forms if necessary

# Allachment #( Sources

# Charles Frye OHI Pad - Water Purveyors w/in 1500'

Charles & Dorothy Frye W & L Kenneth Craig Landowner

Address

849 MCCUTCHEON RD, TRIADELPHIA WV 26059 1 well / 1 spring  $\, r$ 844 MCCUTCHEON RD, TRIADELPHIA WV 26059 2 springs

RECEIVED Office of Oil and Gas

APR 1 3 2018

WV Department of Environmental Protection

06/15/2018

4706900280

4706900280

WW-6A (8-13)

API NO. 47-069 OPERATOR WELL NO. Charles Frye OHI 610H Well Pad Name: Charles Frye OHI Pad

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

#### This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va, Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information: and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W, Va, Code R, § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and

qualified to test water supplies in accordance with standard acceptance methods. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environment  $G_{\mu}^{REGEVED}$ Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wy.gov/oil</u> and Gas APR 1 3 2018

WV Department WV Department of Environmentations Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any within site water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided. whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13)

OPERATOR WELL NO. Charles Frye OHI 610H Well Pad Name: Charles Frye OHI Pad

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

#### Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

#### Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

#### Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

#### Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57<sup>th</sup> St. SE Charleston, WV 25304 (304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

APR 1 3 2018

WV Department of Environmental Protection WW-6A (8-13) API NO. 47-COPERATOR WELL NO. Charles Frye OHI 810H Well Pad Name: Charles Frye OHI Pad

#### Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

#### **Comment Requirements**

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-

<u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

#### Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Office of Oil and Gas

WV Department of Environmental Protection

WW-6A	API NO. 47- 069 -
(8-13)	OPERATOR WELL NO. Charles Frye OHI 610H Well Pad Name: Charles Frye OHI Pad
Notice is hereby given by: Well Operator SWN Production Co., LLC	Address: P.O. Box 1300
Telephone: 304884-1614	Jane Lew, WV 26378
Email: Dee_Southall@swn.com	Facsimile: <u>304-884-1690</u>

#### **Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at <u>depprivacyofficer@wv.gov</u>.

and a series of the series of	
 OFFICIAL SEAL Notery Public, State of West Virginia BRITTANY R WOODY 3302 Old Elkins Road Buckhautrion, WV 20201 My commission expires November 27, 2022	Subscribed and sworn before me this <u>5th</u> day of <u>4012</u> <u>2018</u> . <u>Brittony</u> <u>K</u> <u>1000</u> Notary Public My Commission Expires <u>1177</u>

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APR 1 3 2018

WV Department of Environmental Protection

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

1

Notice Time Requirement: Notice shall be p	provided at least TEN (10) days prior to filing a permit application.
Date of Notice: 03/06/2018	provided at least TEN (10) days prior to filing a permit application. Date Permit Application Filed:

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however. That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

#### Notice is hereby provided to the SURFACE OWNER(s):

Name: Dorothy Frye & David W. Frye	Name:
Address: 849 McCutcheon Rd.	Address:
Triadelphia, WV 26059	

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	536,087.140	
County:	Ohio		4,433,730.846	
District:	Triadelphia	Public Road Access:	Marlow Run	
Quadrangle:	Valley Grove, WV	Generally used farm name:	Charles Frye OHI	
Watershed.	Marlow Run of Middle Wheeling Creek	and the second sec		

#### This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

#### Notice is hereby given by:

Well Operator:	SWN Production Company, LLC	Authorized Representative:	Mike Yates	
Address:	PO Box 1300, 179 Innovation Drive	Address:	PO Box 1300, 179 Innovation Drive	
and second and	Jane Lew, WV 26378		Jane Lew, WV 26378	Office RECEIVED
Telephone:	304-517-6603	Telephone:	304-517-6603	Office of Oil and Gas
Email:	Michael_Yates@swn.com	Email:	Michael_Yates@swn.com	100 -
Facsimile:	304-471-2497	Facsimile:	304-471-2497	APR 1 3 2018
	Privacy Notice:		En	WV Department of Wronmental Protection

#### **Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.
Date of Notice: 03/27/2018
Date Permit Application Filed:

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided*, *however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

#### Notice is hereby provided to the SURFACE OWNER(s):

Name: Amy M. & Corrie L. Frye	Name:	
Address: 782 McCutcheon Road	Address:	
Triadelphia, WV 26059		

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia
County:	Ohio
District:	Triadelphia
Quadrangle:	Valley Grove, WV
Watershed:	Marlow Run of Middle Wheeling Creek

UTM NAD 83	Easting:	536,087.140	
UTM NAD 83	Northing:	4,433,730.846	
Public Road Ac	cess:	Marlow Run	
Generally used t	arm name:	Charles Frye OHI	
		Charles Frye OHI	

#### This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

#### Notice is hereby given by:

Well Operator:	SWN Production Company, LLC	Authorized Representative:	Mike Yates
Address:	PO Box 1300, 179 Innovation Drive	Address:	PO Box 1300, 179 Innovation Drive
1	Jane Lew, WV 26378		Jane Lew, WV 26378
Telephone:	304-517-6603	Telephone:	304-517-6603
Email:	Michael_Yates@swn.com	Email:	Michael_Yates@swn.com
Facsimile:	304-471-2497	Facsimile:	304-471-2497

#### Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at <u>depprivacyofficer@wv.gov</u>.

WW-6A5 (1/12) 4706900280

Operator Well No. Charles Frye OHI 51CH

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 03/06/2018 Date Permit Application Filed:

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL	
RETURN RECEIPT REQUESTED	

HAND DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

#### Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Dorothy Frye & David W. Frye	Name:
Address: 849 MCutcheon Rd.	Address:
Triadelphia, WV 26059	
	*

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	LITANIAD 02 Ea	asting:	536,087,140	
County:	Ohio	UTM NAD 83	orthing:	4,433,730.846	
District:	Triadelphia	Public Road Access		Marlow Run	_
Quadrangle:	Valley Grove, WV	Generally used farm	name:	Charles Frye OHI	
Watershed:	Marlow Run of Middle Wheeling Creek				_

#### This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	SWN Production Company, LLC	Address:	PO Box 1300, 179 Innovation Drive	Office of Oil and Gas
Telephone:	304-517-6603		Jane Lew, WV 26378	ADD 1 9 2042
Email:	Michael_Yates@swn.com	Facsimile:	304-471-2497	APR 1 3 2018

#### **Oil and Gas Privacy Notice:**

WV Department of Environmental Protection

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at <u>depprivacyofficer@wv.gov</u>.

WW-GA5 (1/12)

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 03/27/2018 Date Permit Application Filed:

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL	HAND
RETURN RECEIPT REOUESTED	DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

#### Notice is hereby provided to the SURFACE OWNER(s)

Name: Amy M. & Corrie L. Frye	1	Name:	
Address: 782 McCutcheon Road		Address:	
Triadelphia, WV 26059			

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	UTM NAD 83	ing:	536,087.140	
County:	Chio	Nort	hing:	4,433,730.846	
District:	Triadelphia	Public Road Access:		Marlow Run	
Quadrangle:	Valley Grove, WV	Generally used farm name:		Charles Frye OHI	
Watershed:	Marlow Run of Middle Wheeling Creek				

#### This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-andgas/pages/default.aspx.

Well Operator:	SWN Production Company, LLC	Address:	PO Box 1300, 179 Innovation Drive	Office of Oil and Gas	
Telephone:	304-517-6603		Jane Lew. WV 26378		
Email:	Michael_Yates@swn.com	Facsimile:	304-471-2497	APR 1 3 2018	

WV Department of

Oil and Gas Privacy Notice: Environmental Protection, such as name, address and telephone number, as part of our figulatory 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

#### **Division of Highways**

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

Reissued March 7, 2018

Jill M. Newman Deputy Commissioner

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57<sup>th</sup> Street, SE Charleston, WV 25304

Subject: DOH Permit for the Charles Frye Pad OHI 610H Well Site, Ohio County

Dear Mr. Martin,

The West Virginia Division of Highways has issued permit 06-2011-0061 to Southwestern Energy for access to the State Road for the well site located off of Ohio County Route 41/1 SLS.

The operator has signed an OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Darry K. Clayton

Gary K. Clayton Regional Maintenance Engineer Central Office Oil &Gas Coordinator

RECEIVED Office of Oil and Gas

APR 1 3 2018

WV Department of Environmental Protection

Cc: Brittany Woody Southwestern Energy CH, OM, D-6

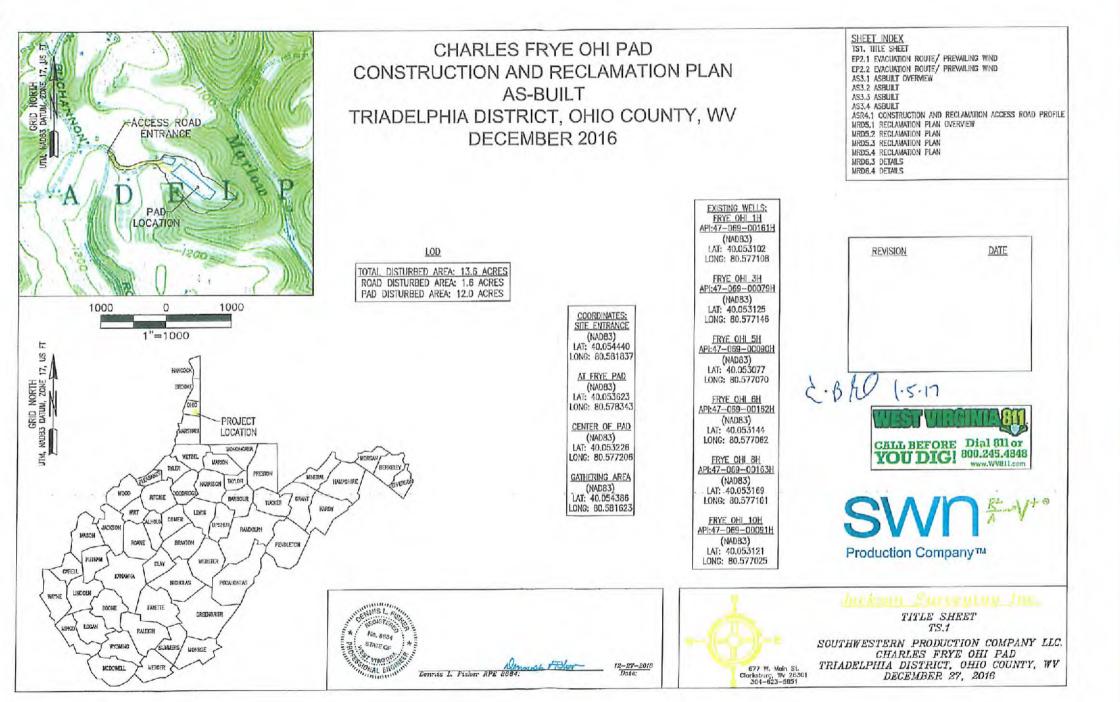
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#### 06/15/2018

E.E.O./AFFIRMATIVE ACTION EMPLOYER

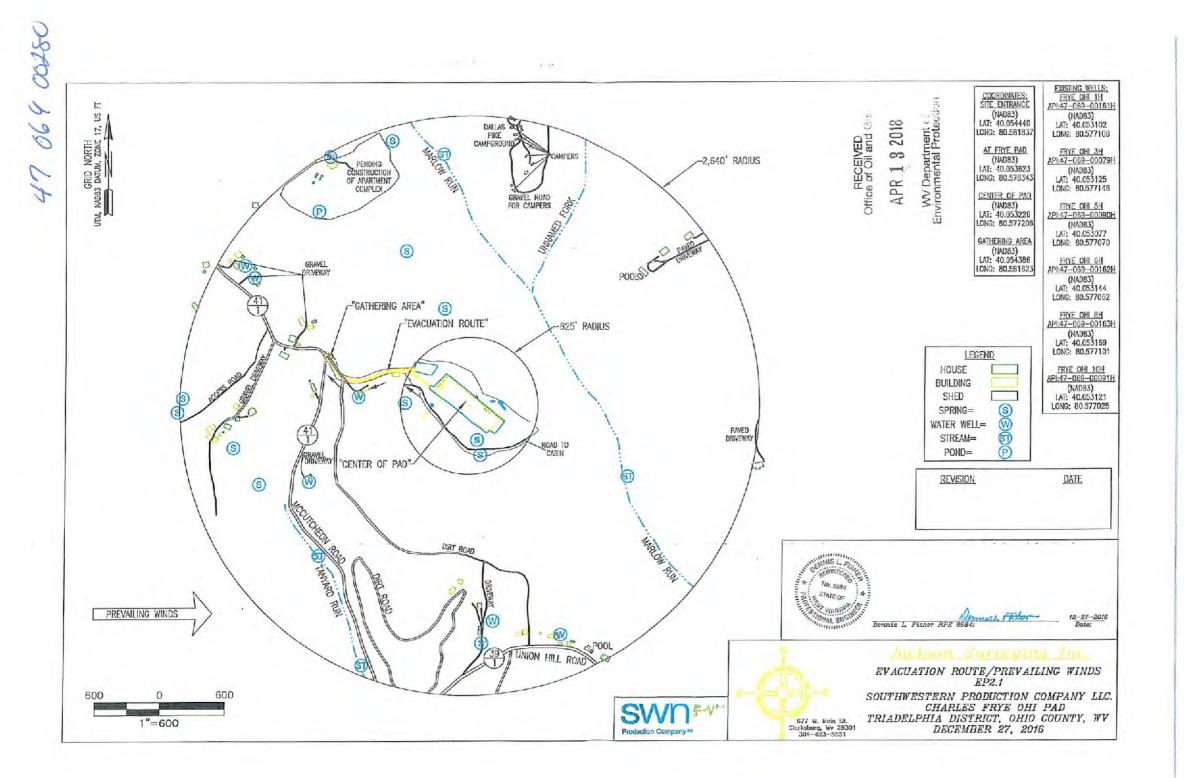
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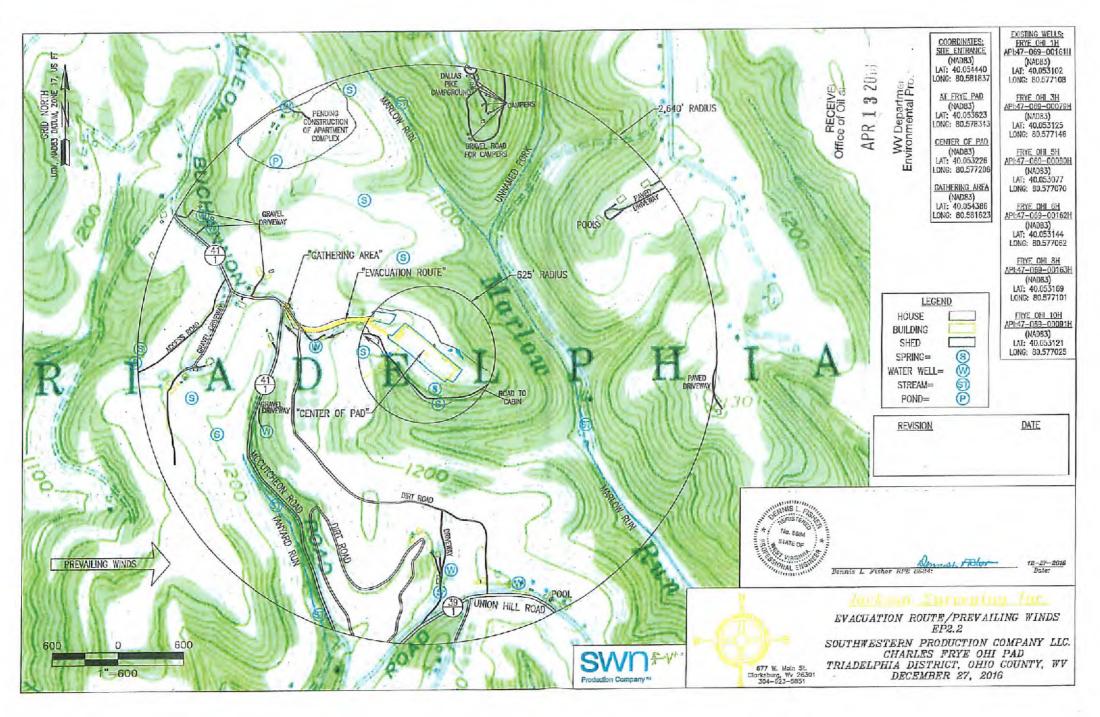
FRAC ADDITIVES								
Product Name	Product Use	Chemical Name	CAS Number					
		Hydrogen Peroxide	7722-84-1					
EC6734A (Champion Technologies)	Biocide	Acetic Acid	64-19-7					
		Peroxyacetic Acid	79-21-0					
		Methanol	67-56-1					
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Nonylphenol Ethoxylate	Proprietary					
	Biocide	Glutaraldehyde	111-30-8					
Bactron K-139 (Champion Technologies)		Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	68424-85-1					
		Ethanol	64-17-5					
	Biocide	Methanol	67-56-1					
Bactron K-219 (Champion Technologies)		Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	68424-85-1					
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary					
		Ethylene Glycol	107-21-1					
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8					
		Propenoic acid, polymer with propenamide	9003-06 9					
		Ethylene glycol	107-21 1					
		Cinnamaldehyde	104-55 2					
AI-303 (U.S. Well Services)	Mixture	Butyl cellosolve	111-76 2					
AI-505 (U.S. Well Services)	wixture	Formic acid	64-18 6					
		Polyether	Proprietary					
		Acetophenone, thiourea, formaldehyde polymer	68527-49 1					
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0					
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8					
		Methanol	67-56-1					
		Oxyalkylated fatty acid	68951-67-7					
		Fatty acids	61790-12-3					
Econo-Cl200 (SWN Well Services)	Corrosion Inhibitor	Modified thiourea polymer	68527-49-1					
		Water	7732-18-5					
		Hydrochloric acid	7647-01-0					
		Potassium acetate	127-08-2					
		Formaldehyde	50-00-0					
	iron Control	Acetic Acid	64-19-7					
Ecopol-FEAC (SWN Well Services)		Citric Acid	77-92-9					
	[	Water	7732-18-5					
HCL (SWN Well Services)	Hydrocholic Acid	Hydrochloric Acid	7647-01-0	-				
• •	· · · · · · · · · · · · · · · · · · ·	Water	7647-01-0 7732-18-5 Proprietary 64674-47-8	RECEIVEN				
FLOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary	C0 01 ~				
	Friction Reducer	Distillates (petroleum) hydrotreated light						
		Ethylene Glycol	107-21-1	WN Der wironmenia				
FLOJET DR900 LPP (SWN Well Services)		Alcohols, C12-16, Exoxylated propoxylated	68213-24-1 Browniaterry	WN Det menia				
		Fatty Alcohols ethoxylated Water	Proprietary	INVIRON				
			//32-18-5					
FR-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate Inorganic Salt	64742-47-8					
	Compation tabilities	No hazardous substance	Proprietary					
HAI-150E (Halliburton)	Corrosion Inhibitor		N/A					
FDP-S1176-15 (Halliburton)	Friction Reducer	Polyacylate Hydrotreated light petroleum distillate	Proprietary 64742-47-8					
LP-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate Ammonium Chloride	Proprietary 12125-02-9					
Zero Wash Tracer	Tracer	Ceramic Proppant	Propriet 06/	15/2018				



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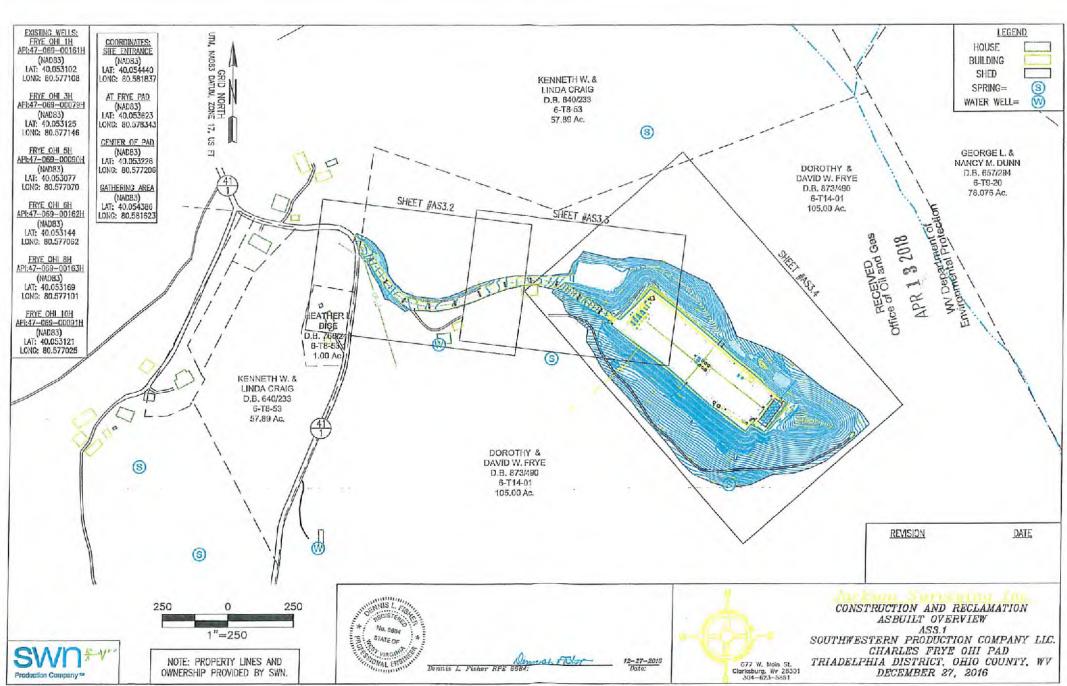
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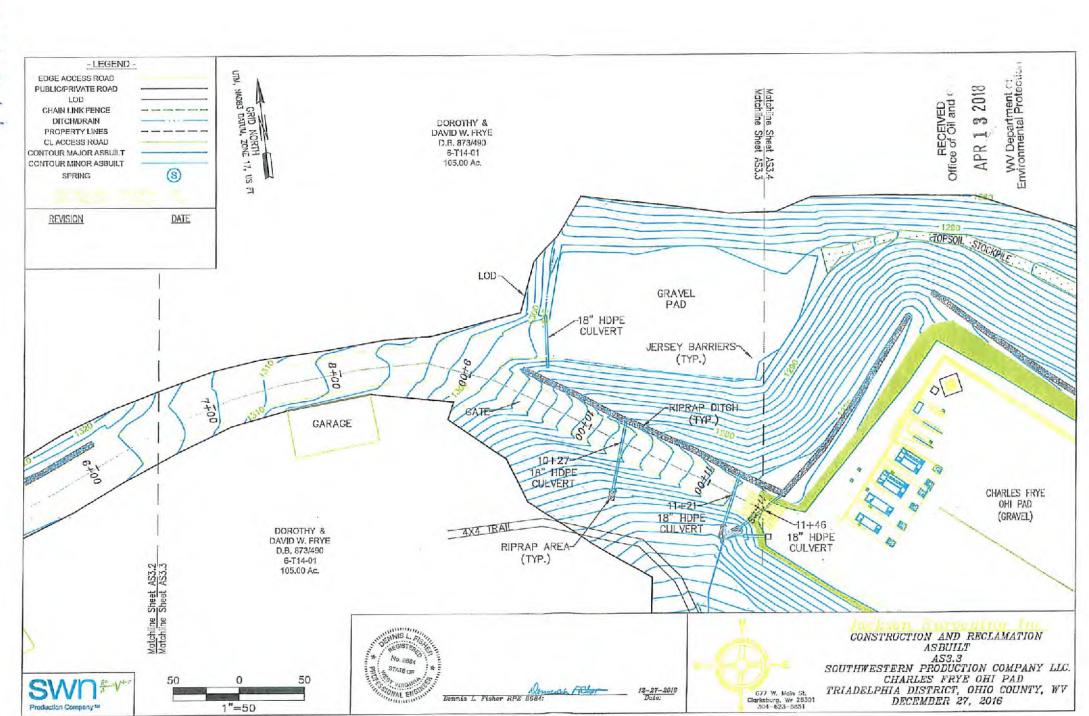




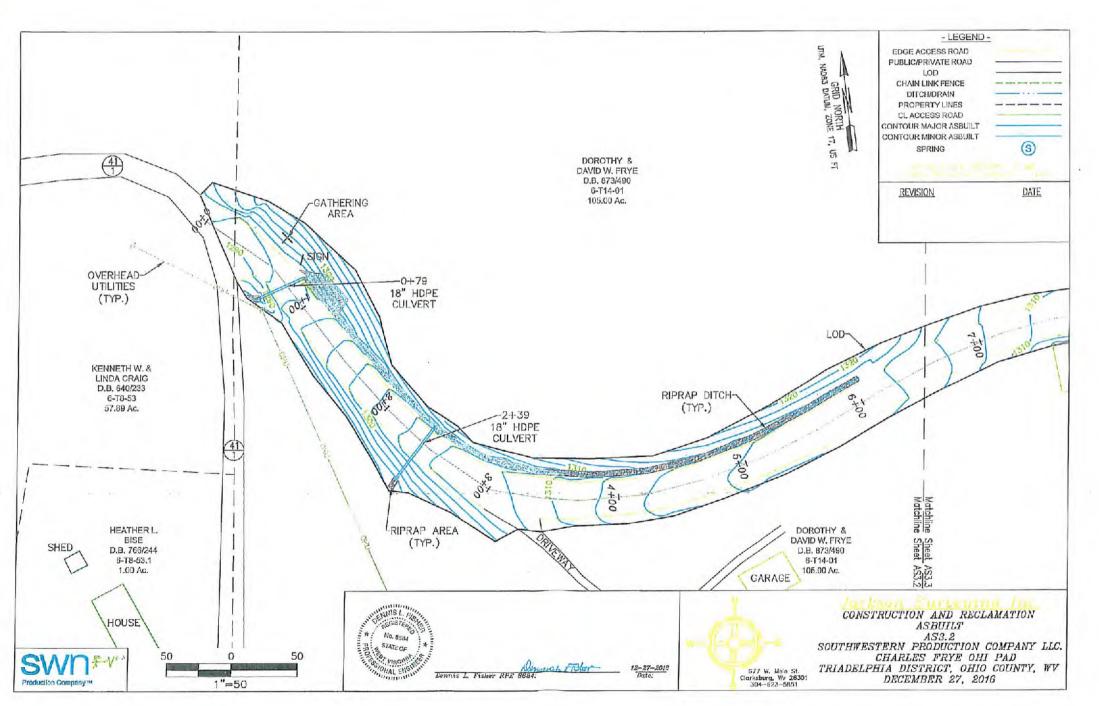
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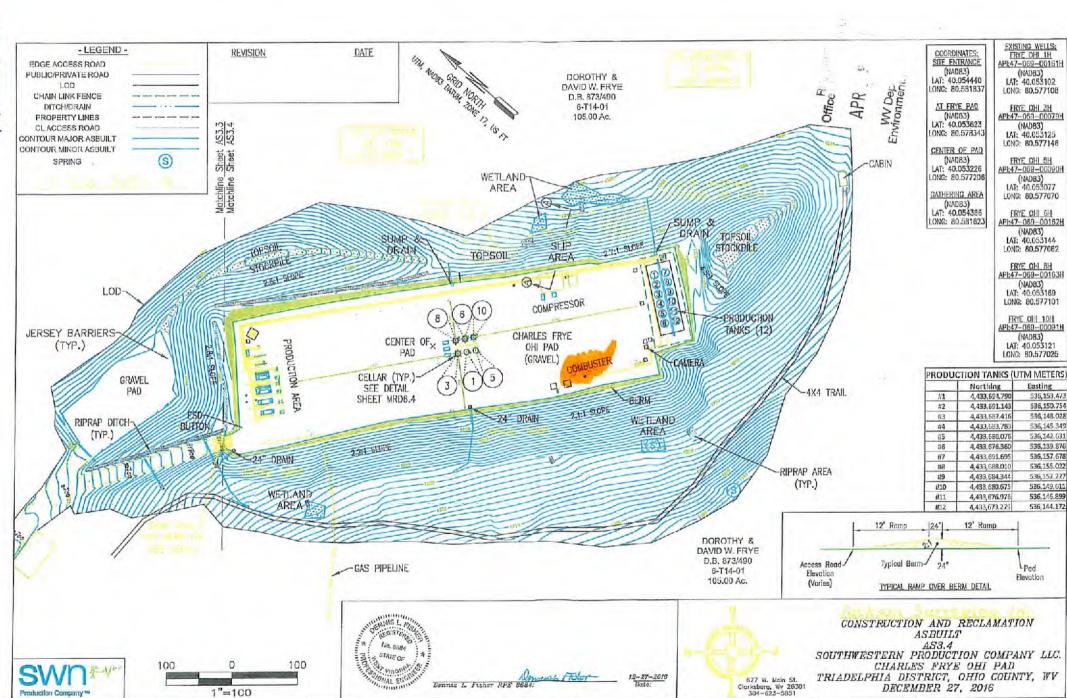




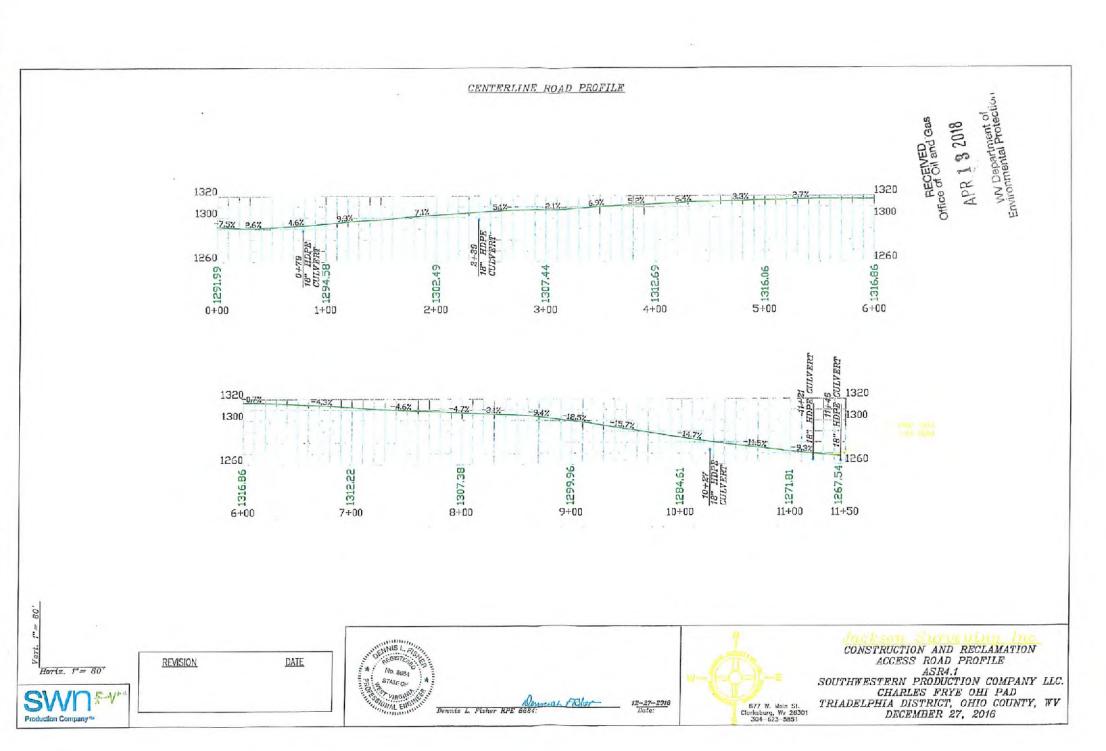


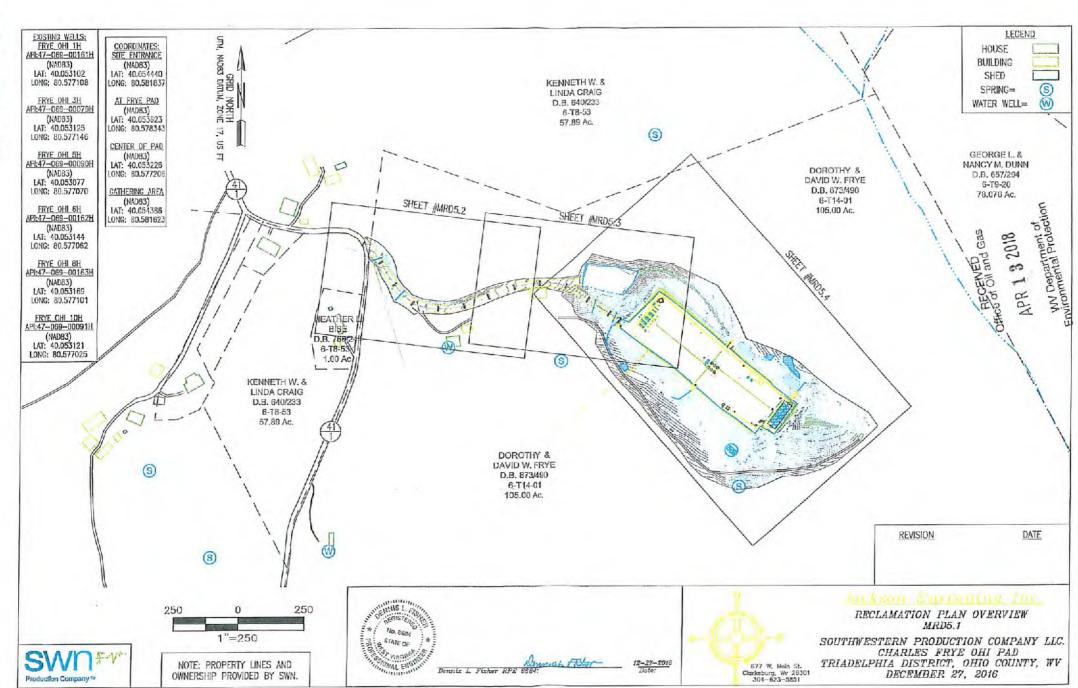
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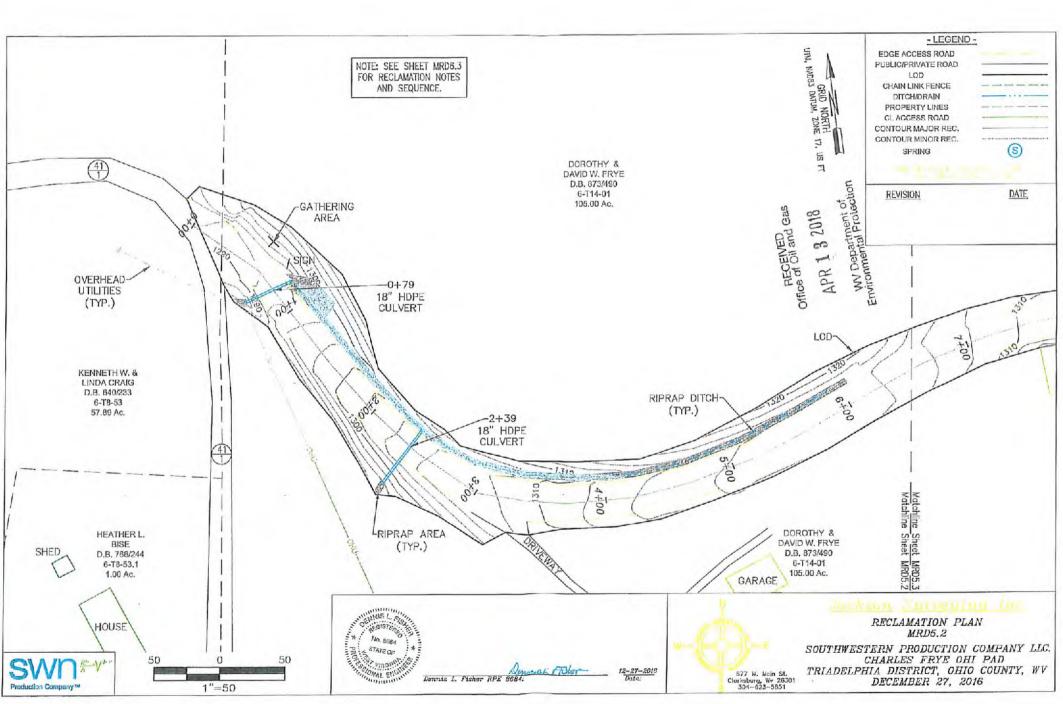


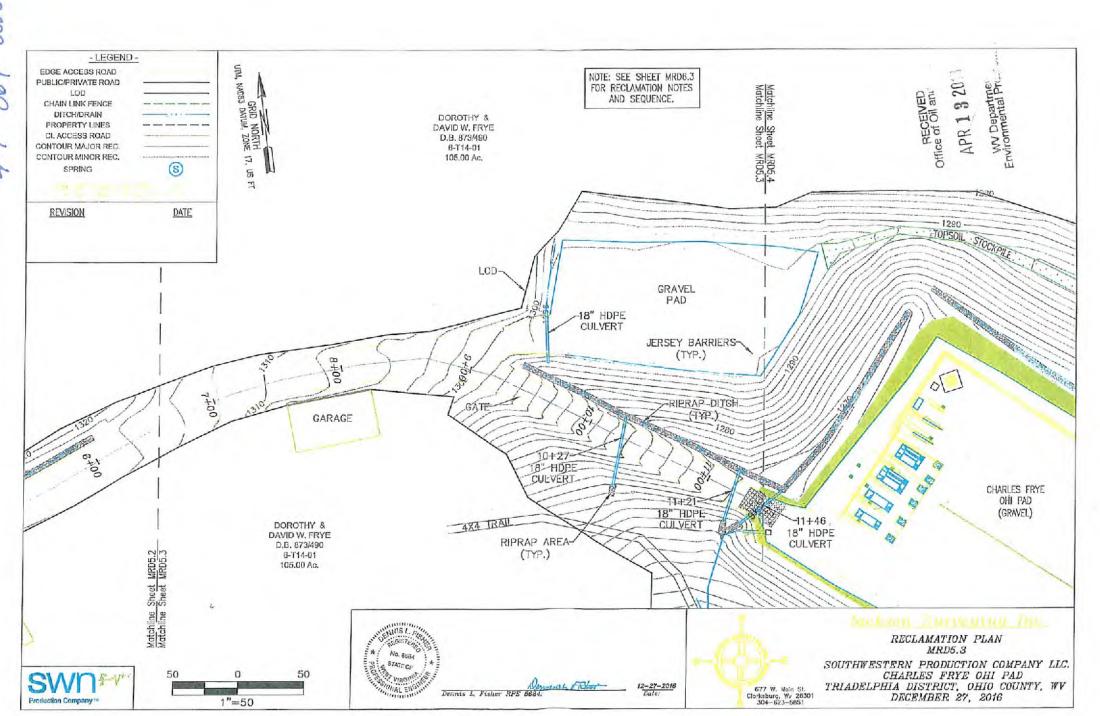




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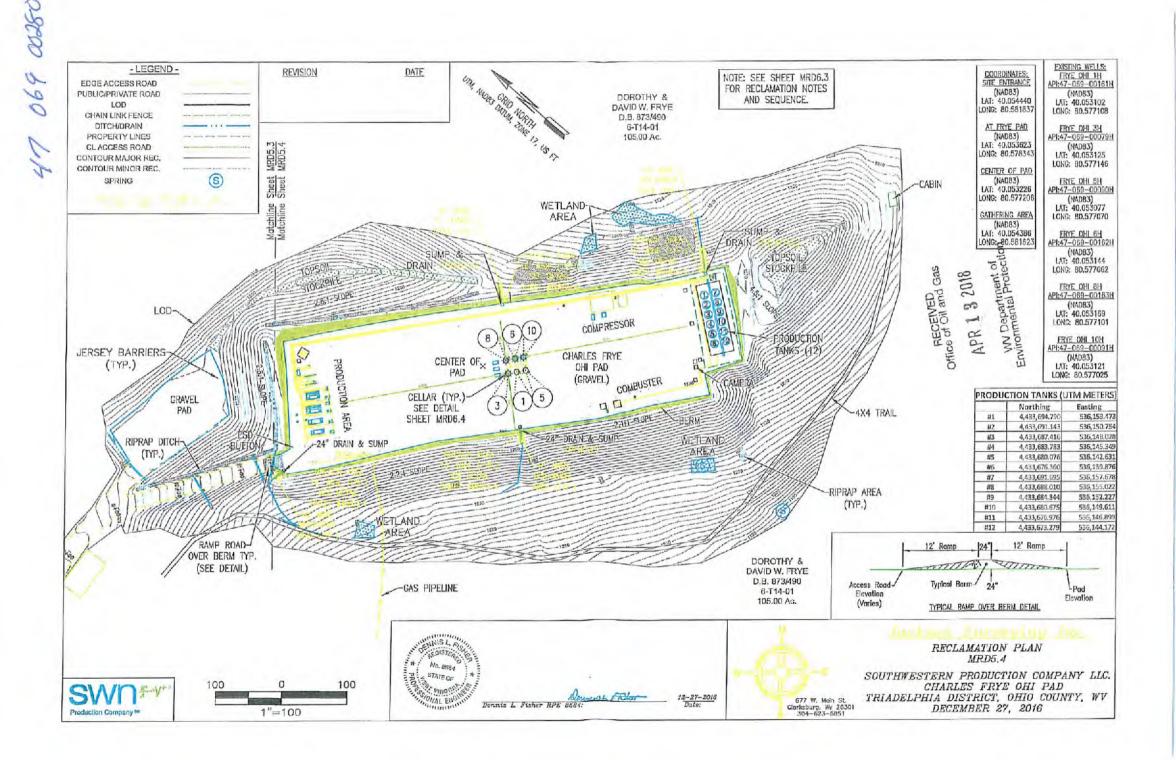






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## ACCESS ROAD RECLAMATION

1. Road surfaces shall be stabilized and/or reseaded. 2. Permanent side ditches will be installed where needed and where the site will allow. 3. Permanent culverts, cross drains and broad-based dips shall be installed. 4. Side slopes of excovated cuts and outslopes shall be maintained, where the site allows.

5. Sediment barriers shall be maintained until vegetation is re-established, Temporary sediment control devices such as ditch line checks and silt fencing shall be removed along with collected sediment after at least a 70% vegetation cover is established.

## GENERAL NOTES REGARDING RECLAMATION

1. Pipelines: any disturbed areas created by pipeline installation shall be reclaimed in accordance with state requirements.

2. Tank batteries, power lines; any disturbed area created by the installation of tank batteries or power lines, even if out of the Immediate construction site shall be reclaimed in accordance with state requirements, as these operations are used in connection with the "permitted" operation.

3. Well mainenance: disturbed areas created due to well maintenance, shall be reclaimed, mulched and seeded to reduce erosian and sedimentation. 4. API Numbers: API identification numbers shall be displayed at the well in accordance with state requirements. 5. Drilling Fit Reclamation

a. All fluid must be removed from the pit prior to backfilling and disposed of in an approved manner or recycled.

b. Drill cuttings, drilling mud and liner, for wells permitted under WV Code 22-6A and 35CSR-8, must be removed from site and disposed of at an approved solid waste facility.

c. All pits and impoundments that are not required or allowed by state or federal law or rule or ogreement between the operator and the surface owner must Use a maximum of two foot thick lifts with 90% compaction to the be backfilled. standard proctor density (ASTM D-698).

6. The operator shall grade or terrace and plant, seed or sod the area disturbed that is not required in production of the well in accordance with the erosion and sediment control control plan.

7. Install all permanent water drainage and diversion ditches. In areas of long slopes, it may be desirable to install angled diversion ditches to gid in controlling water runoff and erosian.

3. Stockpiled topsoil should be re-spread over disturbed area. Topsoil should not be added to slopes steeper than 2:1 unless good bonding to the subsoil can be achieved.

9. Prior to seeding, soil should be loosened by disking, buildozer tracking, etc. Note that buildozer tracking can compact wet clay soils and restrict establishment of vegetation.

10. Maintaining sediment barriers is critical until vegetation is re-established. Temporary sediment control devices such as silt fencing shall be removed along with sediment after at least a 70% vegetative cover is established.

## WELL SITE RECLAMATION (SPECIFIC)

1. For this pad the reclamation will consist of the berm breach and sump removal. spreading the stockpiled topsoil over the 2:1 slope areas & reseeding. The pad area will remain gravel. The sump liner shall be disposed in an approved manner. The sumps shall be filled to grade using excess berm material. See Well Site Reclamation (General) 5(c).

2. Use reinforced sill fence or compost filter sack downslope of areas of topsoil placement as required.

## RECLAMATION SEQUENCE:

1. Install reinforced silt fence or compost filter sock downslope of all areas to be disturbed.

- 2, Remove sumps and liners and dispose.
- Breach berm and construct discharge area.
- 4. Spread stockpiled topsoil over disturbed areas, seed and mulch. 5. Inspect culverts, road sumps and stone check dams, repair as needed.

