

#### 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

Friday, September 01, 2017 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 605H

47-069-00242-00-00

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: CHARLES FRYE OHI 605H

Farm Name: FRYE, DOROTHY

U.S. WELL NUMBER: 47-069-00242-00-00

Horizontal 6A / New Drill

Date Issued: 9/1/2017

Promoting a healthy environment.

API Number: 47-069-00242

## **PERMIT CONDITIONS**

047-069-00242

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

#### **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:	

## **PERMIT CONDITIONS**

047-069-00242

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.

47 0 6 9 0 0 2 4 2

OPERATOR WELL NO. Charles Frye OHI 605H
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 Product	ion Co., LLC	494512924	069-Ohio	6- Triade	648-Valley Grove
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Char	les Frye OHI 6	605H Well Pa	d Name: Cha	rles Frye Ol	HI Pad
3) Farm Name/Surface Owner: Do	rothy Frye & David	W. Frye Public Ro	ad Access: Ma	arlow Run R	oad
4) Elevation, current ground: 12	266.8' EI	evation, proposed	post-construc	tion: 1266.8	3'
5) Well Type (a) Gas X Other	Oil	Und	lerground Stora	age	
(b)If Gas Shallo Horizo		Deep		111	2
6) Existing Pad: Yes or No No				·NN	6617
7) Proposed Target Formation(s), I Target Formation- Marcellus, Target To			The second secon		iated Pressure- 4247
3) Proposed Total Vertical Depth:	6534'				
P) Formation at Total Vertical Dep		3			
10) Proposed Total Measured Dept	th: 13144'			RECEIVED	
1) Proposed Horizontal Leg Leng	5005.001		Offic	e of Oil and Ga	S
2) Approximate Fresh Water Stra		548'	JL	IN 1 3 2017	
13) Method to Determine Fresh W 14) Approximate Saltwater Depths	THE RESERVE THE PROPERTY OF THE PARTY OF THE	nearby water wel	ls W Enviro	/ Department of nmental Protec	tion
15) Approximate Coal Seam Depth					
(6) Approximate Depth to Possible		ine, karst, other):	None that we	are aware	of.
17) Does Proposed well location co directly overlying or adjacent to an	ontain coal sea			×	DECEN
(a) If Yes, provide Mine Info:	Name:			Offic	ce of Oi
	Depth:				JUN 1 3 2017
5	Seam:			W	V Department
	Owner:			Envir	onmental Protec

OPERATOR WELL NO. Charles Frye OHI 605H

Well Pad Name: Charles Frye OHI Pad

18)

#### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	688'	688'	625 sx/CTS
Coal	9 5/8"	New	J-55	36#	2097'	2097'	781 sx/CTS
Intermediate	7"	New	J-55	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	13144'	13144'	lead 984sx Tail 1491sx Inside Intermedia
Tubing	2 3/8"	New	HCP-110	4.7#	Approx. 6534'	Approx. 6534'	
Liners							



TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<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	2 3/8"	4.778"	0.190	Approx 8193'	Approx 8193'		
Liners							

#### **PACKERS**

Kind:	10K Arrowset AS-1X	
Sizes:	5 1/2"	
Depths Set:		

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JUN 1 3 2017

٧	/W	-	6	В
(1	LO/	1	4	)

API NO. 47-\_069 OPERATOR WELL NO. Charles Frye OHI 605H
Well Pad Name: Charles Frye OHI Pad

19	Describe i	proposed v	vell 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 one bottoms up and continuing until operator is satisfied with borehole conditions.

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\*Note: Attach additional sheets as needed.



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

February 14, 2017

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

RE: Proposed New Well Charles Frye OHI 605H

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 Regulatory Supervisor Southwestern Energy Production Company, LLC PO Box 1300 Jane Lew, WV 26378

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WV Department of Environmental Protection

R2 NV+

**Schlumberger Cement Additives** 

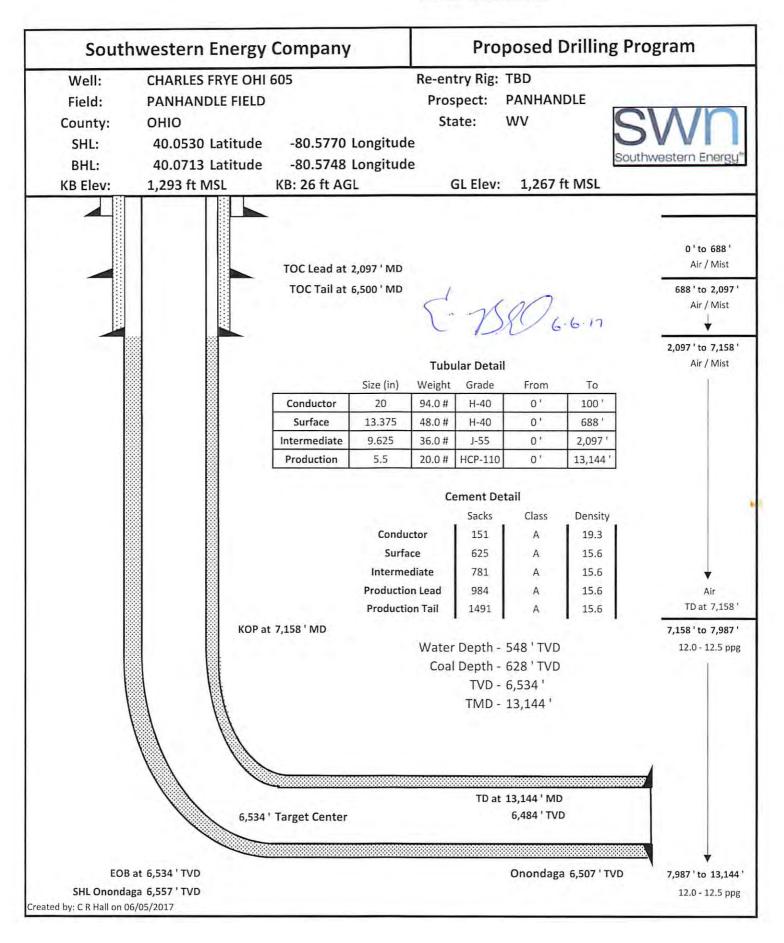
Schidhberger Centent Additives					
	Product Name	Product Use	Chemical Name	CAS Number	
Surface	S001	accelerator	calcium chloride	10043-52-4	
Intermediate Surface	5001	accelerator	calcium chloride	10043-52-4	
·	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3	
Kick Off Plug	D801	retarder	aromatic polymer derivative	propriatary	
고	D047	antifoam	polypropylene glycol	25322-69-4	
	D167	fluid loss	aliphatic amide polymer	propriatary	
l	D154	extender	non-crystalline silica	7631-86-9	
	D400	gas migration	boric acid	10043-35-3	
			polypropylene glycol	25322-69-4	
pae	D046	antifoam	fullers earth (attapulgite)	8031-18-3	
Production-Lead			chrystalline silica	14808-60-7	
윒	D201	retarder	metal oxide	propriatary	
큥			sulphonated synthetic polymer	propriatary	
74	D202	dispersant	formaldehyde (impurity)	propriatary	
Ì			polypropylene glycol	25322-69-4	
	D046	antifoam	fullers earth (attapulgite)	8031-18-3	
	D167	fluid loss	aliphatic amide polymer	propriatary	
<u>=</u>	<b> </b>	l	sodium polynaphthalene sulfonate	9008-63-3	
<u> </u>	D065	dispersant	sodium sulfate	7757-82-6	
Production-Tall		_	chrystalline silica	14808-60-7	
npo.	D201	retarder	metal oxide	propriatary	
	D153	anti-settling	chrystalline silica	14808-60-7	

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#### JUN 1 3 2017



047-069-00242

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API Number 47 - 69

Operator's Well No. Charles Frye OHI 605H

## STATE OF WEST VIRGINIA WV Departmen DEPARTMENT OF ENVIRONMENTAL PROTECTION Environmental Protection OFFICE OF OUL AND CASE

#### FLUIDS/ CUTTINGS 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 to complete the proposed well work? Yes Vo
Will a pit be used? Yes No 🗸
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 Wastes:
Land Application
Underground Injection (UIC Permit Number
Reuse (at API Number_at next anticipated well, API # will be included with the WR-34/DDMR &/or permit addendum  Off Site Disposal (Supply form WW-9 for disposal location)
Other (Explain flow back fluids 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 horizontal)? Air, freshwater, oil based, etc. Only 100 KOP, fluid drill with SOBM from KOP to TD
-If oil based, what type? Synthetic, petroleum, etc. synthetic oil base
Additives to be used in drilling medium? see attached sheets
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.   landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? meadow SWF-1032, SS grading SWF-4902, Northwestern SWF-1025, Short Creek 1034/WV0109517/CID28726, Carbon Limeston 28726-CID28726
Arden Landtill 10072, American 02-12954, Country Wide 38390/CID38390, Pine Grove 13688
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 August 1, 2005, 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
Company Official (Typed Name) Dee Southall
Company Official Title Regulatory Supervisor
Subscribed and sworn before me this 4th day of 4th day
OFFICIAL SEAL OFFICIAL SEAL OFFICIAL SEAL OFFICIAL SEAL
BRITTAN THING Road
My commission expires 11 22 3302 Old Educkhannon, WV 26201  Buckhannon, WV 26201  My commission expires November 27, 202  My commission expires November 27, 202

## **Drilling Mediums**

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

**Synthetic Oil** 

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Proposed Revegetation Treatment: Acres Disturbed	13.6	Prevegetation pl	1
Lime as determined by pH test min. 2 Tons/acre or to co		rrevegetation pr	
Fertilizer type 10-20-20	offect to pri		
Fertilizer amount 600	lbs/acre		
11 101 70			
Mulch_ Hay/Straw 2.5	Tons/acre		
	Seed Mixtures		
Temporary		Perma	nent
Seed Type Ibs/acre **See Attachment		Seed Type	lbs/acre
Attach: Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, acreage, of the land application area.  Photocopied section of involved 7.5' topographic sh	, include dimensions (Leet.		
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## **WVD Seeding Specification**



To Order Seed contact Lyndsi Eddy Flippo office 570-996-4271 cell 501-269-5451 lyndsi\_eddy@swn.com

(please allow 7 to 10 days for delivery)

#### NON-ORGANIC PROPERTIES

Seed Mixture: ROW Mix	SWI	N Supplied
Orchardgrass	40%	
Timothy	15%	
Annual Ryegrass	15%	
Brown Top Millet	5%	
Red Top	5%	
Medium Red Clover	5%	All legumes are
White Clover	5%	innoculated at 5x normal
Birdsfoot Trefoil	5%	rate
Rough Bluegrass	5%	
Apply @ 100lbs per acre April 16th- Oct. 14th	(	Apply @ 200lbs per acre Oct. 15th- April 15th PLUS bs per acre of Winter Wheat

#### SOIL AMENDMENTS

10-20-20 Fertilizer	*Apply @ 500lbs per Acre
Pelletized Lime	Apply @ 2 Tons per Acre
	*unless otherwise dictated by soil test results

#### 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

#### Synopsis:

Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat/ac).

#### Special Considerations:

Landowner Special Considerations including CREP program participants require additional guidance that is not given here. Discuss these requirements with SWN supervision at the beginning of the project to allow time for special seed delivery.

#### ORGANIC PROPERTIES

Seed Mixture: SWN Production Organic	Mix	SWN Supplied
Organic Timothy	50%	
Organic Red or White Clover	50%	
OR		
Organic Perennial Ryegrass	50%	
Organic Red or White Clover	50%	
Apply @ 100lbs per acre		Apply @ 200lbs per acre
April 16th- Oct. 14th		Oct. 15th- April 15th
Organic Fertilizer @ 200lbs per Acre		Pelletized Lime @ 2 Tons per Acre

#### WETLANDS (delineated as jurisdictional wetlands)

Seed Mixture: Wetland Mix	SWN S	upplied	
VA Wild Ryegrass	20%		
Annual Ryegrass	20%		
Fowl Bluegrass	20%	RECEIVED Office of Oil and Gas	
Cosmos 'Sensation'	10%	Office of Oil and Gas	
Redtop	5%	JUN 1 3 2017	
Golden Tickseed	5%	JUN 1 3 2011	
Maryland Senna	5%	WV Department of Environmental Protection	
Showy Tickseed	5%	Environmental Protection	
Fox Sedge	2.5%		
Soft Rush	2.5%		
Woolgrass	2.5%		
Swamp Verbena	2.5%		
Apply @ 25lbs per acre		Apply @ 50lbs per acre	
April 16th- Oct. 14th		Oct. 15th- April 15th	

NO FERTILIZER OR LIME INSIDE WETLAND LIMITS

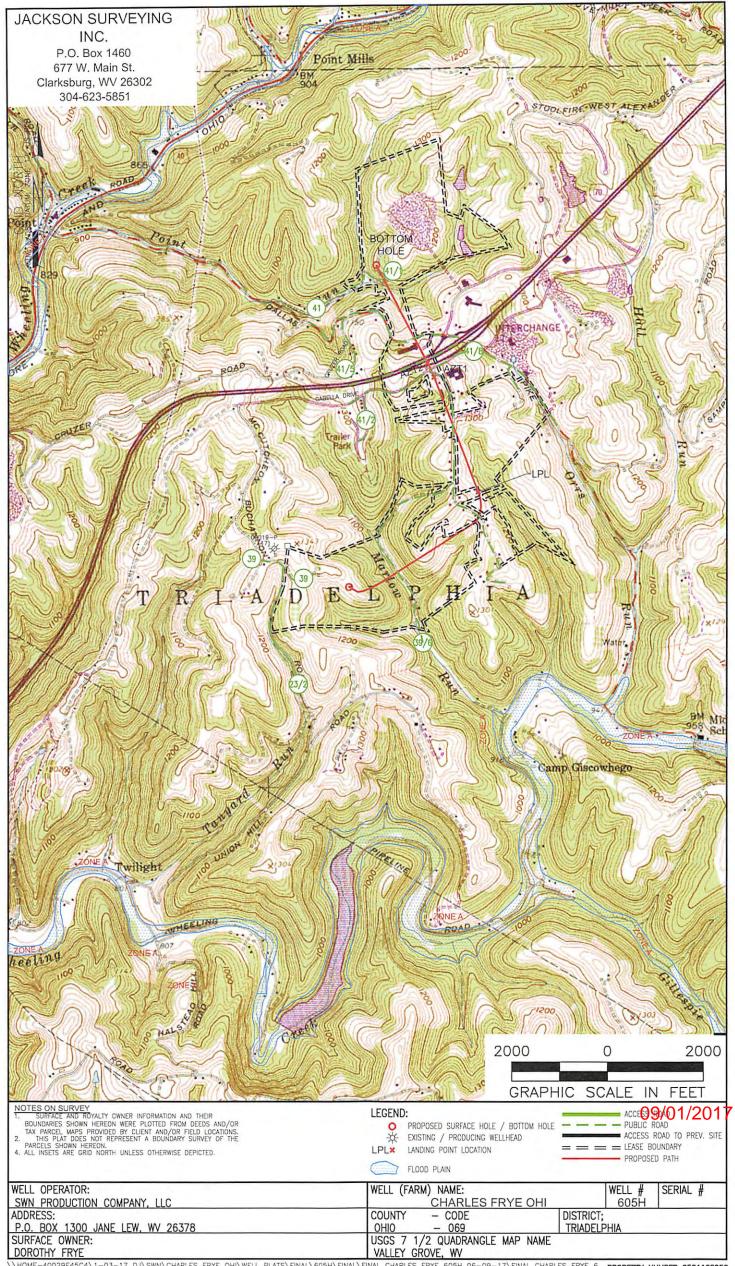
# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

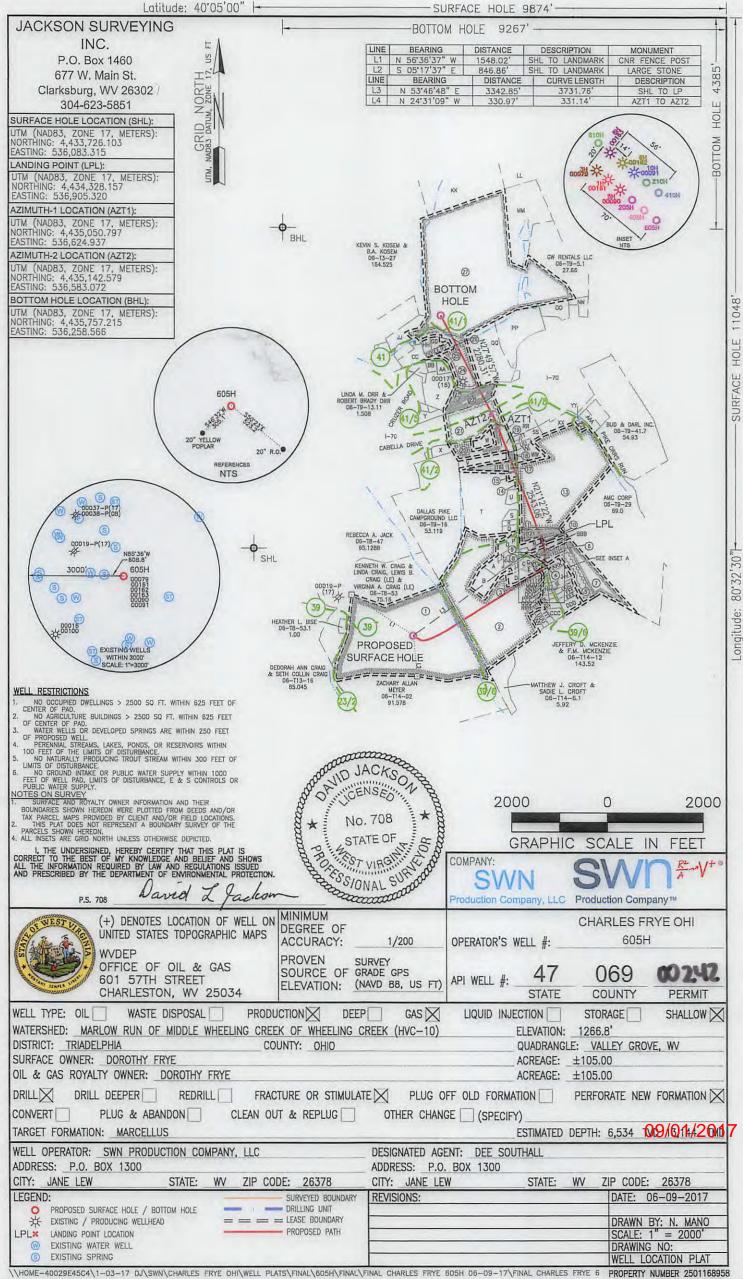


SWN Production Company, LLC 179 Innovation Drive Jane Lew, West Virginia 26378

API NO. 47-XXX-XXXXX
WELL NAME: Charles Frye OHI 605H
Valley Grove QUAD
Triadelphia DISTRICT
Ohio COUNTY, WEST VIRGINIA

Ollio Cot	JINI I,	AACOLAI	INGINIA
Submitted by:  Dee Southall	Date:	2/14/2017	
00.000 1000 1000	2	VEN BORFORE	
Title: Regulatory Supervisor	SWN P	roduction Co.,	LLC
Approved by	Date:	3-30-17	
Title: Oil + Ges Enspecter			
Approved by:			
	Date:		
Title:			
SWN PRODUCTION COMPANY,	LLC		Office of Oil and Gas JUN 1 3 2017 Environmental Protection





JACKSON SURVEYING INC. P.O. Box 1460 677 W. Main St. Clarksburg, WV 26302 304-623-5851



TRACT	WELL BORE TABLE FOR SURFACE / ROYALTY O	OWNERS					
	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES				
1	DOROTHY V. FRYE (S/R)	06-T14-01	105.00		CHEROKEE TRADING POST, INC.	06-T9-17.7	2.326
RACT	SURFACE OWNER	TAX PARCEL	ACRES	W	WHITE DEER REALTY, INC.	06-T9-13.3	2.00
2	GEORGE L. DUNN & NANCY M. DUNN (LE),	06-T9-20	76.698	X	DALLAS PIKE CAMPGROUND, L.L.C.	06-T9-15	1.877
	KATHERINE A. POSEY, CHRISTOPHER R. DUNN,			Y	FREDERICK H. TUSTIN	06-T9-15.1	1.132
	RHONDA L. HAND & CONSTANCE L. KERCHER (S)			Z	LINDA M. ORR & ROBERT BRADY ORR	06-T9-13.12	10.36
3	GEORGE L. DUNN & NANCY M. DUNN (S)	06-T9-20.50	0.52	AA	LINDA M. ORR & ROBERT BRADY ORR	06-T9-13.4	1.813
4	THOMAS POSEY & KATHERINE A. POSEY (S)	06-T9-20.27		BB	LINDA M. ORR & ROBERT BRADY ORR	06-T9-13.8	1.202
5	BRADLEY W. HAND & RHONDA L. HAND (S)	06-T9-20.38	9.477	CC	ALLEN L. GELLNER & D.M. GELLNER	06-T9-1	3.20
6	MICHAEL P. ORTH & BRENDA K. CUNNINGHAM (S)	06-T9-20.35	1.485	DD	DEBRA M. GELLNER & A. GELLNER	06-T9-2.1	0.491
7	SHIRLEY J. COLLEY, NANCY M. DUNN & CHARLES E.	06-T9-20	76.81	EE	LINDA L. VELAS	06-T9-2.3	0.473
	SEAMON (S)			FF	CHARLES W. ULLOM & S.E. ULLOM	06-T9-2.2	0.55
8	DAVID WILLIAMS & JANIE G. WILLIAMS (S)	06-T9-20.13	0.334	GG	LINDA L. VELAS	06-T9-2.5	0.969
9	DAVID WILLIAMS & JANIE G. WILLIAMS (S)	06-T9-20.11	0.997	HH	DEBRA M. GELLNER & ALLEN L. GELLNER	06-T9-2.4	1.042
10	JAMES E. DUNN & DONNA M. DUNN (S)	06-T9-20.15	1.37	II	BILLIE JO LONG	06-T9-1.1	0.645
11	HERBERT L. RICHARDSON &	06-T9-20.17		JJ	RANDAL ALAN HOWARD	06-TB-16	5.68
	CLARA EILEEN DUNN RICHARDSON (S)	1.0000000000000000000000000000000000000		KK	DONALD C. SINCLAIR & BETTY SINCLAIR	03-L14-1.1	99.7
12	EVELYN BETH STEWART DEGENNARO (S)	06-T9-20.3	2.01	LL	G W RENTALS, L.L.C.	06-T4-2.2	26.64
13	AMC INC. (S)	06-T9-28	66.373	MM	G W RENTALS, L.L.C.	06-T9-5.2	38.15
14	DOROTHY M. SAMPSON (S)	06-T9-17.5	0.17	NN	BUD & DARL, INC.	06-T9-6.6	2.12
15	DOROTHY M. SAMPSON (S)	06-T9-17.8	1.00	00	JVB RESTAURANT ENTERPRISES, L.L.C.	06-T9-6.5	4.03
16	CHEROKEE TRADING POST, INC. (S)	06-T9-17.6	4.84	PP	WINDMILL TRUCKERS CENTER, INC.	06-T9-36.7	16.0
17	C.A. GOUDY & M.P. GOUDY (S)	06-T9-19	1.00	QQ	HUNTER REALTY PARTNERS, L.L.C.	06-T9-7	15.8
18	CHEROKEE TRADING POST, INC. (S)	06-T9-17.2	1.00	RR	MONICA, L.L.C.	06-T9-22.4	4.55
19	CHEROKEE TRADING POST, INC. (S)	06-T9-13.1	3.42	SS	ANAND & AMIT, INC.	06-T9-22	2.42
20	LINDA M. ORR & ROBERT BRADY ORR (S)	06-T9-13	7.88	TT	RACJAC, L.L.C.	06-T9-23	0.21
21	WEST VIRGINIA DEPARTMENT OF TRANSPORTION (S)		7.00	UU	RACJAC, L.L.C.	06-T9-24	0.43
22	GOKUL INC. (S)	06-T9-14	1.042	W	DONALD T. PIKE	06-T9-28.1	0.54
23	DONALD T. PIKO (S)	06-T9-13.10		WW	DONALD T. PIKE	06-T9-28.2	2.36
24		06-T9-13.13		XX	AMC, INC.	06-T9-25	3.12
25	CHARLES W. ULLOM & SYLVIA E. ULLOM (S)	06-T9-2.6		YY	AMC, INC.	06-T9-22.2	0.19
26		06-T9-2.6	1.108	ZZ	AMC, INC.	06-T9-27	0.71
	ZOLA M. ULLOM (S)		2.697		DO, L.L.C.	06-T9-41	2.23
21	ADAM T. LUCEY, JACK D. LUCEY, CODY J. LUCEY(S)	100-19-04	140.00	AAA	DAVID A. WILLIAMS & JANIE G. WILLIAMS	06-T9-20.14	
D 1 07	ADJOINING OWNERS TABLE	Lawana		BBB			-
RACT		TAX PARCEL	ACRES	CCC	DONALD W. PEGG & J.L. PEGG	06-T9-20.1	1.84
A	PHILIP MARQUART & KERSTEN MARQUART	06-T9-20.45			GREGG E. BAMBARGER & ELAINE H. BAMBARGER (LIFE)		
В	SARAH ANN PORTER	06-T9-20.44		EEE	THOMAS C. GANTZER, JR. & VICTORIA S. GANTZER	06-T9-20.40	1.00
C	NANCY DUNN	06-T9-20.2	1.823	FFF	(LE), THOMAS CHRISTIAN GANTZER (REMAINDERMAN)	00 70 00 4	1.00
D	CHRISTOPHER R. DUNN & TANAKA H. DUNN	06-T9-20.46		FFF	THOMAS C. GANTZER, JR. & VICTORIA S. GANTZER	06-T9-20.4	1.00
E	CONSTANCE L. KERCHER	06-T9-20.49			(LE), THOMAS CHRISTIAN GANTZER (REMAINDERMAN)	00 70 00 7	1.00
F	THOMAS POSEY & KATHERINE POSEY	06-T9-20.43	100000000000000000000000000000000000000	GGG	THOMAS C. GANTZER, JR. & VICTORIA S. GANTZER	06-T9-20.7	1.00
G	THOMAS POSEY & KATHERINE A. POSEY	06-T9-20.42	0.101		(LE), THOMAS CHRISTIAN GANTZER (REMAINDERMAN)	20 20 20 20	0.50
Н	THOMAS E. POSEY & K.A. POSEY	06-T9-20.36	0.469	ННН	THOMAS C. GANTZER, JR. & VICTORIA S. GANTZER	06-T9-20.33	0.50
	SARAH ANN PORTER	06-T9-20.41	0.385		(LE), THOMAS CHRISTIAN GANTZER (REMAINDERMAN)		
J	NICOLE SEIFERT & JAMIE SEIFERT	06-T9-20.51	1.015	III	JODIE H. USENICK	06-T9-20.12	
K	GEORGE L. DUNN & NANCY M. DUNN	06-T9-20.50	0.52	JJJ	MICHAEL R. KLEIN & ALICIA M. KLEIN	06-T9-20.9	
L	JAMES E. DUNN & D.M. DUNN	06-T9-20.8	0.805	KKK	DAVID L. KOVALSKI III & JOCELYN N. KOVALSKI	06-T9-20.48	100,000
M	JAMES E. DUNN & D.M. DUNN	06-T9-20.16		LLL		06-T9-20.30	1777
N	JOSHUA R. BOYD & AMY M. BOYD	06-T9-20.39	1.00	17.11.07.1-0	JAMES L. ABERCROMBIE & DIANA L. ABERCROMBIE	The second second	1000
0	JOSHUA R. BOYD & AMY M. BOYD	06-T9-20.18	2.46	NNN	ROBERT J. ALOE	06-T9-20.23	
P	JOSHUA R. BOYD & AMY M. BOYD	06-T9-20.22	0.35	000	DANIEL J. WHEELER	06-T9-20.31	
Q	BRIAN D. DOLENCE & DONNA J. DOLENCE	06-T9-17.1	1.04	PPP	DANIEL J. WHEELER	06-T9-20.26	
R	FLOYD L. WENSEL & M. WENSEL	06-T9-17.3	0.88	QQQ	DANIEL J. WHEELER	06-T9-20.37	
S	BRIDGET D. MURRAY & DAVID S. MURRAY	06-T9-17.4	1.21	RRR	BRENT A. HILL & PATTY J. HILL	06-T9-20.47	
T	DOROTHY M. SAMPSON A/K/A	06-T9-17	29.77	SSS	BRENT A. HILL & PATTY J. HILL	06-T9-20.32	
	DOROTHY MAE SAMPSON			TIT	GARY FLANEGIN	06-T9-20.20	
	DOROTHY M. SAMPSON A/K/A	06-T9-18	0.80	UUU	MICHAEL W. NASH & C.J. NASH	06-T9-20.19	
U	DOROTHY MAE SAMPSON			VVV	LISA A. OLIVER	06-79/21	1/2
U		MPANY:			PI A // PI	11+6	
	COS:	MI AIVI.		SV ction C	ompany, LLC Production Company™	inoV+®	

605H

COUNTY: OHIO

STATE: WV

DRAWN BY: N. MANO
SCALE: N/A
DRAWING NO:
WELL LOCATION PLAT 2

DISTRICT: TRIADELPHIA

WELL #:

Operator's Well No. (	Charles Frye OHI 605H
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#### 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:

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
_	=			

See Exhibit

RECEIVED Office of Oil and Gas

JUN 1 3 2017

WV Department of Environmental Protection

#### 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:	Rue	
Its:	Staff Landman	

_	TMP	SURFACE OWNER	DEEDED ACREA	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
						Great Lakes Energy Partners,	·	
	<u> </u>				·	шс		
						Chesapeake Appalachia, LLC		775/335
1	6-T14-01	Dorothy V. Frye	105.000	730226-000	Dorothy V. Frye, a widow	SWN Production Company, LLC	12.50%	808/375 883/204
						Chesapeake Appalachia, LLC	12,3076	303/204
_						SWN Production Company,		795/556
	6-T9-20	George L. Dunn and Nan	76.698	725414-000	George L. Dunn and Nancy M. Dunn, husband and wife	шс	14.00%	885/524
		1		]		Chesapeake Appalachia, LLC		705 /55
3	6-T9-20.50	George L. Dunn and Nan	0.520	725414-000	George L. Dunn and Nancy M. Dunn, husband and wife	SWN Production Company, LLC	14 nn≪	795/556 885/524
					, and the	Chesapeake Appalachia, LLC	A-7.0070	320,324
		L				SWN Production Company,		878/525
_4	6-T9-20.27	Thomas Posey and Kathe	0.232	744813-000	Delbert R. Baker and Dolores E. Baker, husband and wife	LLC	17.00%	895/477
				1	1	Chesapeake Appalachia, LLC		705/552
5	6-179-20.38	Bradley W. Hand and Rh	9.477	725409-000	Bradley W. Hand and Rhonda L. Hand, husband and wife	SWN Production Company, LLC	12 500	795/552 885/524
			*****		Trains, massaire aria viic	SWN Production Company,	12.50%	883/324
6	6-T9-20,35	Michael P. Orth and Bren	1.485	745914-000	Michael P. Orth and Brenda K. Orth, husband and wife	LLC	15.00%	913/457
						Chesapeake Appalachia, LLC		
7	6-T9-20	Shirley J. Colley, Nancy N	75 010	725414-000	George I. Dunn and Name A4. Dunn trustee I - 1. "	SWN Production Company,		795/556
-	0.13-20	Jamiey J. Colley, Nancy N	/6.810	725414-000	George L. Dunn and Nancy M. Dunn, husband and wife	LLC Chesapeake Appalachia, LLC	14.00%	885/524
						SWN Production Company,		877/525
8	6-T9-20.13	David Williams and Janie	0.334	744709-000	David A. Williams and Janie G. Williams, husband and wife		16.00%	895/477
						Chesapeake Appalachia, LLC		
	6-T9-20.11	David Williams and Janie	2 22-	744700 000	Double A Million and to the Graph	SWN Production Company,		877/525
~	6-19-20.11	David Williams and Janle	0.997	744709-000	David A. Williams and Janie G. Williams, husband and wife	LLC Chesapeake Appalachia, LLC	16.00%	895/477
		James E. Dunn and	!			SWN Production Company,		810/664
10	6-T9-20.15	Donna M. Dunn	1.370	729344-000	James E. Dunn and Donna M. Dunn, husband and wife	шс	18,00%	883/156
						Chesapeake Appalachia, LLC		
,,	6-T0-20 17	Norhort I Dishardas	4 7	771 500 000		SWN Production Company,	1	814/491
7.7	6-T9-20.17	Herbert L. Richardson an	1./42	731600-000	husband and wife	LLC Chesapeake Appalachia, LLC	18.00%	884/265
						SWN Production Company,		873/181
12	6-T9-20.3	Evelyn Beth Stewart Deg	2.010	735381-000		LLC		884/349
						Chesapeake Appalachia, LLC		
ا.,	6-T9-28	AMC Inc.	cc 275	730333 000		SWN Production Company,		846/113
دد	U-13-40	AINC III.	00.3/3	738323-000	AMC, Inc.	LLC		885/404 834/8
					Dorothy May Sampson, a single woman			867/713
					Lloyd Allen Kurth, a married man dealing in his sole and			874/1
. 1		l l		l .	separate property	i		874/29
١				704445 655	1 ' ' '			
				734116-000 735412-001	John Kurth, a married man dealing in his sole and separate		16.00%	877/33
				734116-000 735412-001 735418-001	John Kurth, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC	16.00% 18.00%	877/33 884/361
14	6-T9-17.5	Dorothy M. Sampson	0.170	735412-001	John Kurth, a married man dealing in his sole and separate property		16.00% 18.00% 18.00%	877/33
14	6-T9-17.5	Dorothy M. Sampson	0.170	735412-001 735418-001	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and	Chesapeake Appalachia, LLC SWN Production Company,	16.00% 18.00% 18.00%	877/33 884/361 884/277
14	6-T9-17.5	Dorothy M. Sampson	0.170	735412-001 735418-001	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC	16.00% 18.00% 18.00% 18.00%	877/33 884/361 884/277 895/484 834/8
				735412-001 735418-001 744685-001	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company,	16.00% 18.00% 18.00% 18.00%	877/33 884/361 884/277 895/484 834/8 867/713
	6-T9-17.5 6-T9-17.8	Dorothy M. Sampson  Dorothy M. Sampson		735412-001 735418-001	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company,	16.00% 18.00% 18.00% 18.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277
				735412-001 735418-001 744685-001	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company,	16.00% 18.00% 18.00% 18.00%	877/33 884/361 884/277 895/484 834/8 867/713
				735412-001 735418-001 744685-001 734116-000	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company,	16.00% 18.00% 18.00% 18.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138
				735412-001 735418-001 744685-001 734116-000	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC	16.00% 18.00% 18.00% 18.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 874/1 874/29 884/349
				735412-001 735418-001 744685-001 734116-000 735374-001 735412-001	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC	16.00% 18.00% 18.00% 18.00% 16.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 874/1 874/29 884/349 877/33
15	6-T9-17.8	Dorothy M. Sampson	1.000	735412-001 735418-001 744685-001 734116-000 735374-001 735412-001 735418-001	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC  Chesapeake Appalachia, LLC SWN Production Company,	16.00% 18.00% 18.00% 18.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 873/138 874/1 874/29 884/349 877/33 884/361
15			1.000	735412-001 735418-001 744685-001 734116-000 735374-001 735412-001	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC	16.00% 18.00% 18.00% 18.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 874/1 874/29 884/349 877/33
15	6-T9-17.8	Dorothy M. Sampson	1.000	735412-001 735418-001 744685-001 734116-000 735374-001 735412-001 735418-001	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC  Chesapeake Appalachia, LLC SWN Production Company, LLC	16.00% 18.00% 18.00% 18.00% 16.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 874/1 874/29 884/349 877/33 884/361
15	6-T9-17.8	Dorothy M. Sampson	1.000 4.840	735412-001 735418-001 744685-001 734116-000 735374-001 735412-001 735418-001	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property Charles Andrew Goudy and Mabel Philabaum Goudy, husband and wife	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC  Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC	16.00% 18.00% 18.00% 18.00% 16.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 874/1 874/29 884/349 877/33 884/361
15	6-T9-17.8 6-T9-17.6	Dorothy M. Sampson  Cherokee Trading Post, I	1.000 4.840	735412-001 735418-001 744685-001 734116-000 735374-001 735412-001 735418-001	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property Charles Andrew Goudy and Mabel Philabaum Goudy, husband and wife	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC  Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC	16.00% 18.00% 18.00% 18.00% 16.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 874/29 884/349 877/33 884/361 895/484
16	6-T9-17.8 6-T9-17.6 6-T9-19	Dorothy M. Sampson  Cherokee Trading Post, I  C.A. Goudy and M.P. Gou	1.000 4.840 1.000	735412-001 735418-001 744685-001 734116-000 735374-001 735412-001 735418-001 744685-001	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property Charles Andrew Goudy and Mabel Philabaum Goudy, husband and wife	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC  Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company,	16.00% 18.00% 18.00% 18.00% 16.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 874/1 874/29 874/33 884/361 895/484 876/74 895/484
16	6-T9-17.8 6-T9-17.6	Dorothy M. Sampson  Cherokee Trading Post, I	1.000 4.840 1.000	735412-001 735418-001 744685-001 734116-000 735374-001 735412-001 735418-001	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property Charles Andrew Goudy and Mabel Philabaum Goudy, husband and wife  Cherokee Trading Post Inc.	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC  Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC	16.00% 18.00% 18.00% 18.00% 16.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 874/29 884/349 877/33 884/361 895/484
15 16 17	6-T9-17.8 6-T9-17.6 6-T9-19	Dorothy M. Sampson  Cherokee Trading Post, I  C.A. Goudy and M.P. Gou	1.000 4.840 1.000	735412-001 735418-001 744685-001 734116-000 735374-001 735412-001 735418-001 744685-001 744611-000	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property Charles Andrew Goudy and Mabel Philabaum Goudy, husband and wife  Cherokee Trading Post Inc.	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC	16.00% 18.00% 18.00% 18.00% 16.00% 18.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 874/1 874/29 874/33 884/361 895/484 876/74 895/484
15 16 17	6-T9-17.8 6-T9-17.6 6-T9-19	Dorothy M. Sampson  Cherokee Trading Post, I  C.A. Goudy and M.P. Gou	1.000 4.840 1.000	735412-001 735418-001 744685-001 734116-000 735374-001 735412-001 735418-001 744685-001	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property Charles Andrew Goudy and Mabel Philabaum Goudy, husband and wife  Cherokee Trading Post Inc.	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC  Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	16.00% 18.00% 18.00% 18.00% 16.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 874/1 874/29 884/349 877/33 884/361 895/484 876/74 895/484
15 16 17	6-T9-17.8 6-T9-17.6 6-T9-19	Dorothy M. Sampson  Cherokee Trading Post, I  C.A. Goudy and M.P. Gou	1.000 4.840 1.000	735412-001 735418-001 744685-001 734116-000 735374-001 735412-001 735418-001 744685-001 744611-000	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property Charles Andrew Goudy and Mabel Philabaum Goudy, husband and wife  Cherokee Trading Post Inc.	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC  Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC	16.00% 18.00% 18.00% 16.00% 16.00% 18.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 874/29 874/29 874/33 884/361 895/484 859/567 884/385
15 16 17	6-T9-17.8 6-T9-17.6 6-T9-19 6-T9-17.2	Dorothy M. Sampson  Cherokee Trading Post, I  C.A. Goudy and M.P. Gou  Cherokee Trading Post, I  Cherokee Trading Post, I	1.000 4.840 1.000 1.000	735412-001 735418-001 744685-001  734116-000  735374-001 735412-001 735418-001 744685-001  744611-000  734939-000	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Charles Andrew Goudy and Mabel Philabaum Goudy, husband and wife  Cherokee Trading Post Inc.  Cherokee Trading Post Inc.	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC  Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company,	16.00% 18.00% 18.00% 18.00% 16.00% 18.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 874/1 874/29 874/29 874/33 884/361 895/484 875/484 859/567 884/385 884/385
15 16 17	6-T9-17.8 6-T9-17.6 6-T9-19	Dorothy M. Sampson  Cherokee Trading Post, I  C.A. Goudy and M.P. Gou	1.000 4.840 1.000 1.000	735412-001 735418-001 744685-001 734116-000 735374-001 735412-001 735418-001 744685-001 744611-000	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Charles Andrew Goudy and Mabel Philabaum Goudy, husband and wife  Cherokee Trading Post Inc.  Cherokee Trading Post Inc.	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC  Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC	16.00% 18.00% 18.00% 18.00% 16.00% 18.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 874/29 874/29 874/33 884/361 895/484 859/567 884/385
15 16 17	6-T9-17.8 6-T9-17.6 6-T9-19 6-T9-17.2	Dorothy M. Sampson  Cherokee Trading Post, I  C.A. Goudy and M.P. Gou  Cherokee Trading Post, I  Cherokee Trading Post, I	1.000 4.840 1.000 1.000	735412-001 735418-001 744685-001  734116-000  735374-001 735412-001 735418-001 744685-001  744611-000  734939-000	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property Charles Andrew Goudy and Mabel Philabaum Goudy, husband and wife  Cherokee Trading Post Inc.  Cherokee Trading Post Inc.	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC  Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company,	16.00% 18.00% 18.00% 16.00% 16.00% 18.00% 18.00%	877/33 884/361 884/277 895/884 834/8 867/713 884/277 873/138 874/1 874/29 8874/33 884/349 877/33 884/361 895/484 8895/484 8895/484 8895/484 8895/67 884/385 884/385
15 16 17 18	6-T9-17.8 6-T9-17.6 6-T9-19 6-T9-17.2 6-T9-13.1	Dorothy M. Sampson  Cherokee Trading Post, I  C.A. Goudy and M.P. Got  Cherokee Trading Post, I  Cherokee Trading Post, I  Linda M. Orr and Robert	1.000 1.000 1.000 3.420	735412-001 735418-001 744685-001  734116-000  735374-001 735412-001 735418-001 744685-001  744611-000  734939-000  735321-000	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property Charles Andrew Goudy and Mabel Philabaum Goudy, husband and wife  Cherokee Trading Post Inc.  Linda M. Orr and Robert Brady Orr, Wife and Husband  Linda M. Orr and Robert Brady Orr, Wife and Husband	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC  Chesapeake Appalachia, LLC SWN Production Company,	16.00% 18.00% 18.00% 16.00% 16.00% 18.00% 18.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 874/29 874/29 884/349 877/33 884/361 895/484 859/567 884/385 885/484 859/567 884/385 872/358 884/349 877/358 884/349 877/358
15 16 17	6-T9-17.8 6-T9-17.6 6-T9-19 6-T9-17.2 6-T9-13.1	Dorothy M. Sampson  Cherokee Trading Post, I  C.A. Goudy and M.P. Gou  Cherokee Trading Post, I  Cherokee Trading Post, I	1.000 1.000 1.000 3.420	735412-001 735418-001 744685-001  734116-000  735374-001 735412-001 744685-001  744611-000  734939-000  734939-000	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property Charles Andrew Goudy and Mabel Philabaum Goudy, husband and wife  Cherokee Trading Post Inc.  Linda M. Orr and Robert Brady Orr, Wife and Husband Gokul, Inc.	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC  Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC	16.00% 18.00% 18.00% 16.00% 16.00% 18.00% 18.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 874/1 874/29 884/349 877/33 884/361 895/484 859/567 884/385 889/567 884/385 872/358 884/349 872/358 884/349
15 16 17 18	6-T9-17.8 6-T9-17.6 6-T9-19 6-T9-17.2 6-T9-13.1	Dorothy M. Sampson  Cherokee Trading Post, I  C.A. Goudy and M.P. Got  Cherokee Trading Post, I  Cherokee Trading Post, I  Linda M. Orr and Robert	1.000 1.000 1.000 3.420	735412-001 735418-001 744685-001  734116-000  735374-001 735412-001 735418-001 744685-001  744611-000  734939-000  735321-000	John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Dorothy M. Sampson aka Dorothy Mae Sampson, a widow Dorothy May Sampson, a single woman Lloyd Allen Kurth, a married man dealing in his sole and separate property John Kurth, a married man dealing in his sole and separate property Frank Peters, a married man dealing in his sole and separate property  Charles Andrew Goudy and Mabel Philabaum Goudy, husband and wife  Cherokee Trading Post Inc.  Linda M. Orr and Robert Brady Orr, Wife and Husband Gokul, Inc.	Chesapeake Appalachia, LLC SWN Production Company, LLC Chevron USA Inc. Chesapeake Appalachia, LLC SWN Production Company, LLC  Chesapeake Appalachia, LLC SWN Production Company,	16.00% 18.00% 18.00% 16.00% 16.00% 18.00% 18.00% 18.00%	877/33 884/361 884/277 895/484 834/8 867/713 884/277 873/138 874/29 874/29 884/349 877/33 884/361 895/484 859/567 884/385 885/484 859/567 884/385 872/358 884/349 877/358 884/349 877/358

						Chesapeake Appalachia, LLC		
						SWN Production Company,		818/588
23	6-T9-13.10	Donald T. Piko	2.618	735727-000	Donald T. Piko, a single man	LLC	18.00%	885/596
		1				Chesapeake Appalachia, LLC		
						SWN Production Company,		872/358
24	6-T9-13.13	Linda M. Orr and Robert	11.810	735321-000	Linda M. Orr and Robert Brady Orr, Wife and Husband	ис	18.00%	884/349
	1					Chesapeake Appalachia, LLC		
		Charles W. Ullom and			1	SWN Production Company,		815/524
25	6-T9-2.6	Sylvia E. Ullom	1.108	731237-000	Charles W. Ullom and Sylvia E. Ullom, husband and wife	LLC	18.00%	883/243
		T				Chesapeake Appalachia, LLC		
		1				SWN Production Company,		813/336
26	6-T9-2	Zola M. Ullom	2.697	735100-000	Zola M. Ullom, widow	uc	18.00%	884/397
						Chesapeake Appalachia, LLC		
						SWN Production Company,		790/202
27	6-T9-4	Adam T. Lucey, Jack D. Lu	140.000	724939-000	Windmill Truckers Center, Inc	luc	12.50%	885/482

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047-069-00242

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

March 10, 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 405H in Ohio County, West Virginia, Drilling under McCutcheon Road, National Road, Dallas Pike, 332-378 Cherokee PI, and Middle Creek Road.

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 McCutcheon Road, National Road, Dallas Pike, 332-378 Cherokee PI, and Middle Creek Road. 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,

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

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WV Department of Environmental Protection

R2 wV+°

The Right People Open Right (Nick) (Nick) Wisely investing the desh flow from our underlying Assets, will create Value+®

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

Date of Notic	ce Certification:		API No. 47	- 069 -	
			Operator's	Well No. Char	les Frye OHI 605H
			Well Pad N	ame: Charles	Frye OHI Pad
Notice has l	been given:				
Pursuant to th	he provisions in West Virginia Code	§ 22-6A, the Operator has prov	ided the req	uired parties v	with the Notice Forms listed
below for the	tract of land as follows:				
State:	West Virginia	UTM NAD 83	Easting:	536083.315	
County:	069-Ohio	UTM NAD 83	Northing:	4433726.103	
District:	Triadelphia	Public Road Acce	ss:	Marlow Run Roa	d
Quadrangle:	Valley Grove	Generally used far	rm name:	Charles Frye	
Watershed:	Marlow Run of Middle Wheeling Creek				
Virginia Code	of subsection (b), section sixteen o e § 22-6A-11(b), the applicant shall t have been completed by the applican	ender proof of and certify to th			
	West Virginia Code § 22-6A, the Operator has properly served the require		is Notice Co	ertification	OOG OFFICE USE
*PLEASE CHI	ECK ALL THAT APPLY				ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	☐ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or 🔳 NO PLAT SURVE	Y WAS CO	NDUCTED	RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIR NOTICE OF ENTRY FOR P		7.7	RECEIVED/

#### Required Attachments:

5. PUBLIC NOTICE

6. NOTICE OF APPLICATION

■ 4. NOTICE OF PLANNED OPERATION

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.

WAS CONDUCTED or

(PLEASE ATTACH)

☐ WRITTEN WAIVER BY SURFACE OWNER

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WV Department of Environmental Protection

NOT REQUIRED

RECEIVED

RECEIVED

RECEIVED

#### Certification of Notice is hereby given:

THEREFORE, I \_\_\_\_\_\_\_, 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:	Regulatory Supervisor	Facsimile:		
Telephone:	304-884-1614	Email:	Dee_Southall@swn.com	
	NOTARY SEAL OFFICIAL SEAL Notary Public. State of West Virgini BRITTANY R WOODY 3302 Old Elkins Road	Hollow	orn before me this 14th day of 100000 Notary Public	<u>()</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 <a href="deepprivacyofficer@wv.gov">deepprivacyofficer@wv.gov</a>.

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WW-6A (9-13)

API NO. 47- 069 -

OPERATOR WELL NO. Charles Frye OHI 605H Well Pad Name: Charles Frye OHI Pad

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

Notice T	ime Requirement:	notice shall be provided no later that	an the filing date of permit application.
Date of	Notice:	ate Permit Application Filed:	lala
Notice o	the second secon	ate remit Application Flied.	1011
riotice o			
✓ PEI	RMIT FOR ANY	☐ CERTIFICATE OF API	PROVAL FOR THE
WI	ELL WORK	CONSTRUCTION OF	AN IMPOUNDMENT OR PIT
Delivery	method pursuant t	o West Virginia Code § 22-6A-10	0(b)
☐ PEI	RSONAL 🗸	REGISTERED	IOD OF DELIVERY THAT REQUIRES A
77 P. 10 T. 11	RVICE		IPT OR SIGNATURE CONFIRMATION
			e of the application, the applicant for a permit for any well work or for a
the surface oil and gardescribed operator of more coal well work impounds have a war provide was a way or	the of the tract on which as leasehold being developed in the erosion and see or lessee, in the event of lessee, in the event of lessees, in the event of lessees, if the surface tract is ment or pit as described at er well, spring or way that the work activity is on (b) of this section has fithe sheriff required of this article to the of \$35-8-5.7.a requires.	th the well is or is proposed to be loc veloped by the proposed well work, it diment control plan submitted pursua the tract of land on which the well p ers of record of the surface tract or tracts is to be used for the placement, constituted in section nine of this article; (5) we after supply source located within one by humans or domestic animals; and to take place. (c)(1) If more than three old interests in the lands, the applicate to be maintained pursuant to section contrary, notice to a lien holder is not in part, that the operator shall also p	the well plat to each of the following persons: (1) The owners of record of ated; (2) The owners of record of the surface tract or tracts overlying the f the surface tract is to be used for roads or other land disturbance as ant to subsection (c), section seven of this article; (3) The coal owner, roposed to be drilled is located [sic] is known to be underlain by one or acts overlying the oil and gas leasehold being developed by the proposed ruction, enlargement, alteration, repair, removal or abandonment of any Any surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to d (6) The operator of any natural gas storage field within which the see tenants in common or other co-owners of interests described in not may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any thotice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
☑ Appli	cation Notice 🛛 W	SSP Notice ☐ E&S Plan Notice	e ☑ Well Plat Notice is hereby provided to:
SURF	ACE OWNER(s)	/	☐ COAL OWNER OR LESSEE
	orothy V. Frye		Name: Alliance Resources GP, LLC % Elizabeth Acost
Address:	849 McCutcheon Road		Address: 2596 Battle Run Road
Triadelphia,	WV 26059		Triadelphia, WV 26059
Name: _			□ COAL OPERATOR
Address:			Name:
			Address:
		oad and/or Other Disturbance)	- SUBSTACE ON SUBSTACE WATER WITH
Name: _			☑ SURFACE OWNER OF WATER WELL
Address:			AND/OR WATER PURVEYOR(s)
			Name: See Attachment #1
Name: _			Address:
Address:			- open mon on the transfer of or or or
		200	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
		npoundments or Pits)	Name:
Name:			Address:
Address:			ADV 100 1 100 100 100 100 100 100 100 100
		RECEIVED Office of Oil and Gas	*Please attach additional forms if necessary

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WW-6A (8-13)

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JUN 1 3 2017

047-069-00242

API NO. 47-069

OPERATOR WELL NO. Charles Frye OHI 605H Well Pad Name: Charles Frye OHI Pad

Notice is hereby given:

WV Department of Environmental Protection

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 acceptable methods.

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/oiland-gas/pages/default.aspx.

#### Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing 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) API NO. 47-069 -00242
OPERATOR WELL NO. Charles Frye OHI 605H

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

JUN 1 3 2017

Office of Oil and Gas

WV Department of Environmental Protection

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.

WW-6A (8-13)

API NO. 47-069

OPERATOR WELL NO. Charles Frye OHI 605H

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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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.

RECEIVED Office of Oil and Gas

JUN 1 3 2017

WW-6A (8-13)

API NO. 47-069

OPERATOR WELL NO. Charles Frye OHI 605H

Well Pad Name: Charles Frye OHI Pad

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 304-884-1614
Email: Dee\_Southall@swn.som

Address: P.O. Box 1300
Jane Lew, WV 26378
Facsimile:

#### 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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.



Subscribed and sworn before me this 4th day of Fill Notary Public

My Commission Expires

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JUN 1 3 2017

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

Landowner Charles & Dorothy Frye

Charles & Dorothy Frye W & L Kenneth Craig

Address

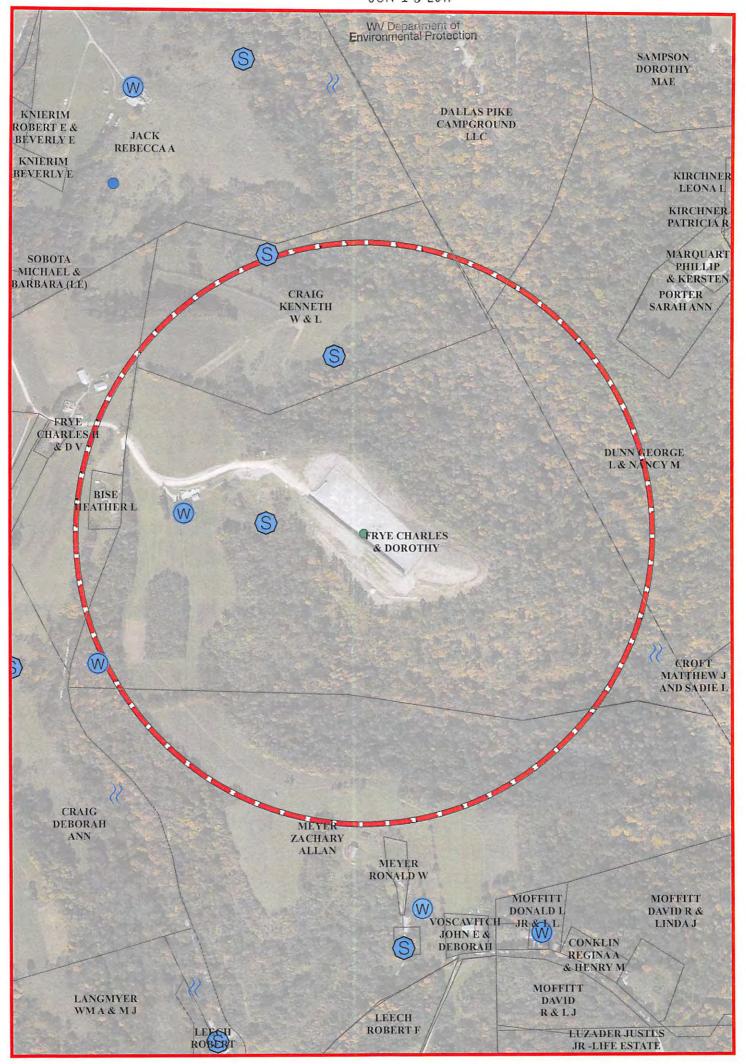
849 MCCUTCHEON RD, TRIADELPHIA WV 26059 1 well / 1 spring

844 MCCUTCHEON RD, TRIADELPHIA WV 26059 2 springs

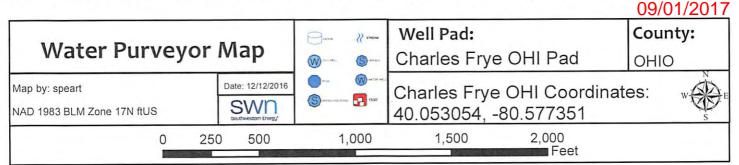
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JUN 1 3 2017

#### JUN 1 3 2017



The intent of this map is for general reference only. Information on this map was created using the best available data at the time but is not guaranteed accurate.



#### Operator Well No. Charles Frye OHI 605H

# 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.

	me Requi otice: 02/1			t TEN (10) days prior to filing a Application Filed:	permit application.	
Delivery	method p	ursuant to West Virgin	ia Code § 22-6A	ı-16(b)		
□ на	ND	■ CERTIFIED N	MAIL			
	IVERY		CEIPT REQUES	STED		
receipt re drilling a of this su subsectio	quested or horizontal osection as n may be y	hand delivery, give the well: <i>Provided</i> , That notes of the date the notice waived in writing by the	surface owner no notice given pursi yas provided to the surface owner.	otice of its intent to enter upon the uant to subsection (a), section te the surface owner: <i>Provided</i> , how	an operator shall, by certified mail return ne surface owner's land for the purpose of on of this article satisfies the requirements evever. That the notice requirements of this ude the name, address, telephone number, or's authorized representative.	
		provided to the SURI	FACE OWNE	R(s):		
	rothy Frye & D		V	Name:		
Address: 849 McCutcheon Rd. Triadelphia, WV 26059				Address:		
Triadelphia	WV 26059			-		
the surface or State: County:	e owner's West	Triadelphia		ntal well on the tract of land as fol UTM NAD 83 Easting: Northing: Public Road Access:	llows: 536,083.315 4,433,726.103	
District:	_				Marlow Run	
Quadrang Watershe		Valley Grove, WV		Generally used farm name:	Charles Frye OHI	
Waterche	d. Marlov		<u> </u>			
w atcisiic	d. Manor	v Run of Middle Wheeling Creek				
This No Pursuant facsimile related to	tice Shall to West V number a horizonta	Include: Virginia Code § 22-6A- nd electronic mail addr I drilling may be obtain	ess of the opera	tor and the operator's authorize retary, at the WV Department o	ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.	
This No Pursuant facsimile related to located at	tice Shall to West V number a horizonta 601 57 <sup>th</sup> S	Include: Virginia Code § 22-6A- nd electronic mail addr I drilling may be obtain Street, SE, Charleston, W	ess of the opera	tor and the operator's authorize retary, at the WV Department o	ed representative. Additional information f Environmental Protection headquarters,	
This No Pursuant facsimile related to located at	tice Shall to West V number a horizonta 601 57 <sup>th</sup> S	Include: Virginia Code § 22-6A- nd electronic mail addr I drilling may be obtain	ess of the opera	tor and the operator's authorize retary, at the WV Department o	ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.	
This No Pursuant facsimile related to located at	tice Shall to West V number a horizonta 601 57 <sup>th</sup> S	Include: Virginia Code § 22-6A- nd electronic mail addr I drilling may be obtain Street, SE, Charleston, W	ress of the opera led from the Sect VV 25304 (304-9	tor and the operator's authorize retary, at the WV Department o 026-0450) or by visiting <u>www.de</u>	ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.	
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This No Pursuant facsimile related to located at Notice is Well Ope	tice Shall to West V number a horizonta 601 57 <sup>th</sup> S hereby s rator: SW	Include: Virginia Code § 22-6A- nd electronic mail addr I drilling may be obtain Street, SE, Charleston, W given by: N Production Company, LLC Box 1300, 179 Innovation Drive	ress of the opera led from the Sect VV 25304 (304-9	tor and the operator's authorized retary, at the WV Department of 226-0450) or by visiting www.de	ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Mike Yates PO Box 1300, 179 Innovation Drive	
This No Pursuant facsimile related to located at Notice is Well Ope Address:	tice Shall to West V number a horizonta 601 57 <sup>th</sup> S hereby s rator: SW PO Jan e: 304	Include:  Virginia Code § 22-6A- nd electronic mail addr I drilling may be obtain Street, SE, Charleston, W  given by:  N Production Company, LLC  Box 1300, 179 Innovation Drive e Lew, WV 26378	ress of the opera led from the Sect VV 25304 (304-9	tor and the operator's authorize retary, at the WV Department of 226-0450) or by visiting www.de Authorized Representative:  Address:	ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Mike Yates PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378	

#### 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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

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JUN 1 3 2017 09/01/2017 WV Department of Environmental Protection

Operator Well No. Charles Frye OHI BOSH

047-069-00242

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

Notice Time Date of Notic	Requirement: notice se: 02/14/2017		o later than the filing pplication Filed:	date of permit	application.
Delivery met	hod pursuant to West	Virginia Code § 2	22-6A-16(c)		
■ CERTI	FIED MAIL	П	HAND		
	RN RECEIPT REQUES	STED	DELIVERY		
return receipt the planned of required to be drilling of a l damages to th (d) The notice of notice.  Notice is her (at the addres Name: Dorothy Address: B49 f Triadelphia, WV 2  Notice is her Pursuant to W	requested or hand deli- peration. The notice provided by subsection provided by subsection provided by subsection provided by subsection provided by the surface affected by ones provided by this section provided to the SI provided in the records of provided in the records of provided by Board W. Frye provided to the SI provided in the records of provided in the records	very, give the surfarequired by this sun (b), section ten on (b) A proposed surfail and gas operation on shall be given the sheriff at the the sheriff at the the control of the sheriff at the sheriff at the the sheriff at the the sheriff at the s	ce owner whose land absection shall includ f this article to a surfa ace use and compens as to the extent the da to the surface owner a  R(s) time of notice):  Name:  Address  s hereby given that the	will be used for the de: (1) A copy ace owner whose ation agreement mages are computed the address list.	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time well operator has developed a planned act of land as follows:
State:	West Virginia	2013 X 0	— UTM NAD 8	Easting:	536,083.315
County: District:	Ohio		Public Road	Northing:	4,433,726.103 Marlow Run
Quadrangle:	Triadelphia Valley Grove, WV			ed farm name:	Charles Frye OHI
Watershed:	Marlow Run of Middle Wheelin	ng Creek	Generally use	d farm name.	Granes Trye Gri
Pursuant to V to be provide horizontal we surface affect information r	ed by W. Va. Code § all; and (3) A proposed ed by oil and gas oper elated to horizontal dr located at 601 57th S	22-6A-10(b) to a surface use and corations to the exterilling may be obta	surface owner whose impensation agreement the damages are co- lined from the Secret	land will be not containing arompensable undarry, at the WV	code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

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JUN 1 3 2017 09/01/2017 WV Department of Environmental Protection



#### 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

February 14, 2017

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

Subject: DOH Permit for the Charles Frye Pad OHI 605H Well Site. Ohio County

Dear Mr. Martin.

Jim Justice

Governor

47-069-00242

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,

Gary K. Clayton

Regional Maintenance Engineer Central Office Oil &Gas Coordinator

Cc: Brittany Woody

Southwestern Energy

CH, OM, D-6

File

RECEIVED Office of Oil and Gas

JUN 1 3 2017

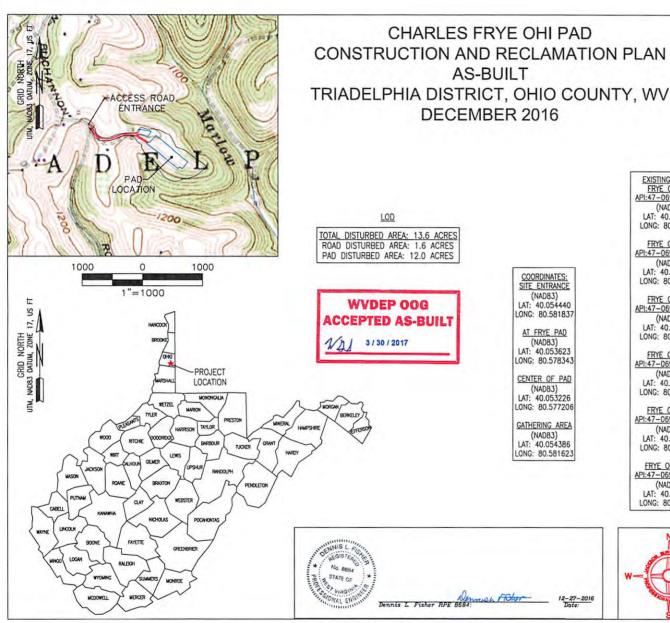
Product Name	Product Use	Chemical Name	CAS Number
		Hydrogen Peroxide	7722-84-1
EC6734A (Champion Technologies)	Biocide	Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
GYPTRON T-390 (Champion	Carla Labilita	Methanol	67-56-1
Technologies)	Scale Inhibitor	Nonylphenol Ethoxylate	Proprietary
	·	Glutaraldehyde	111-30-8
Bactron K-139 (Champion Technologies)	Biocide	Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Bactron K-219 (Champion	Biocide	Methanol	67-56-1
Technologies)	Biocide	Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	68424-85-1
ECCASCA (Nation Character)	Scale Inhibitor	Amine Triphosphate	Proprietary
EC6486A (Nalco Champion)	Scale illilibitor	Ethylene Glycol	107-21-1
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
WFRA-2000 (U.S. Well Services)	Amonic Friction Reducer	Propenoic acid, polymer with propenamide	9003-06 9
	Mixture	Ethylene glycol	107-21 1
		Cinnamaldehyde	104-55 2
A1 202 (1.6 millos (1.1)		Butyl cellosolve	111-76 2
AI-303 (U.S. Well Services)		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

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JUN 1 3 2017

PAD NAME: Charles Frye OHI Pad  REVIEWED BY: SIGN  WELL RESTRICTIONS  HORIZONTAL 6A	* Pod Built
WELL RESTRICTIONS	CHECKLIST WELL FOOD BUILT
	* Pod Built
HORIZONTAL 6A	* Pad Built
	IN 100 DOUNT
Well Restrictions	
At Least 100 Feet from Pad and LOD (include Perennial Stream, Lake, Pond, Reservoir or W	
DEP Waiver and Permit Conditions	
At Least 300 Feet from Pad and LOD (includ Naturally Producing Trout Stream; OR	ing any E&S Control Feature) to any
DEP Waiver and Permit Conditions	
At Least 1000 Feet from Pad and LOD (included Groundwater Intake or Public Water Supply;	
DEP Waiver and Permit Conditions	
At Least 250 Feet from an Existing Water We Drilled; OR	ell or Developed Spring to Well Being
Surface Owner Waiver and Recorded	with County Clerk, OR
DEP Variance and Permit Conditions	
At Least 625 Feet from an Occupied Dwelling	g Structure to Center of the Pad; OR
Surface Owner Waiver and Recorded	with County Clerk, OR
DEP Variance and Permit Conditions	
At Least 625 Feet from Agricultural Building of the Pad; OR	s Larger than 2500 Square Feet to the Center
Surface Owner Waiver and Recorded	with County Clerk, OR
DEP Variance and Permit Conditions	RECEIVED Office of Oil and Gas

JUN 1 3 2017 VQ9/Q1/2017 Environmental Protection



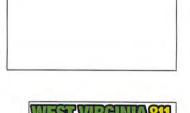
AS3.1 ASBUILT OVERVIEW AS3.2 ASBUILT AS3.3 ASBUILT AS3.4 ASBUILT ASR4.1 CONSTRUCTION AND RECLAMATION ACCESS ROAD PROFILE MRD5.1 RECLAMATION PLAN OVERVIEW MRD5.2 RECLAMATION PLAN MRD5.3 RECLAMATION PLAN MRD5.4 RECLAMATION PLAN MRD6.3 DETAILS MRD6.4 DETAILS EXISTING WELLS: FRYE OHI 1H API:47-069-00161H

REVISION

TS1. TITLE SHEET

EP2.1 EVACUATION ROUTE/ PREVAILING WIND

EP2.2 EVACUATION ROUTE/ PREVAILING WIND



DATE



CALL BEFORE Dial 811 or

YOU DIG! 800.245.4848



(NAD83)

LAT: 40.053102

LONG: 80.577108

FRYE OHI 3H

API:47-069-00079H

(NAD83)

LAT: 40.053125

LONG: 80.577146

FRYE OHI 5H

API:47-069-00090H

(NAD83)

LAT: 40.053077

LONG: 80.577070

FRYE OHI 6H API:47-069-00162H

(NAD83)

LAT: 40.053144

LONG: 80.577062

FRYE OHI 8H

API:47-069-00163H

(NAD83)

LAT: 40.053169

LONG: 80.577101

FRYE OHI 10H

API:47-069-00091H (NAD83)

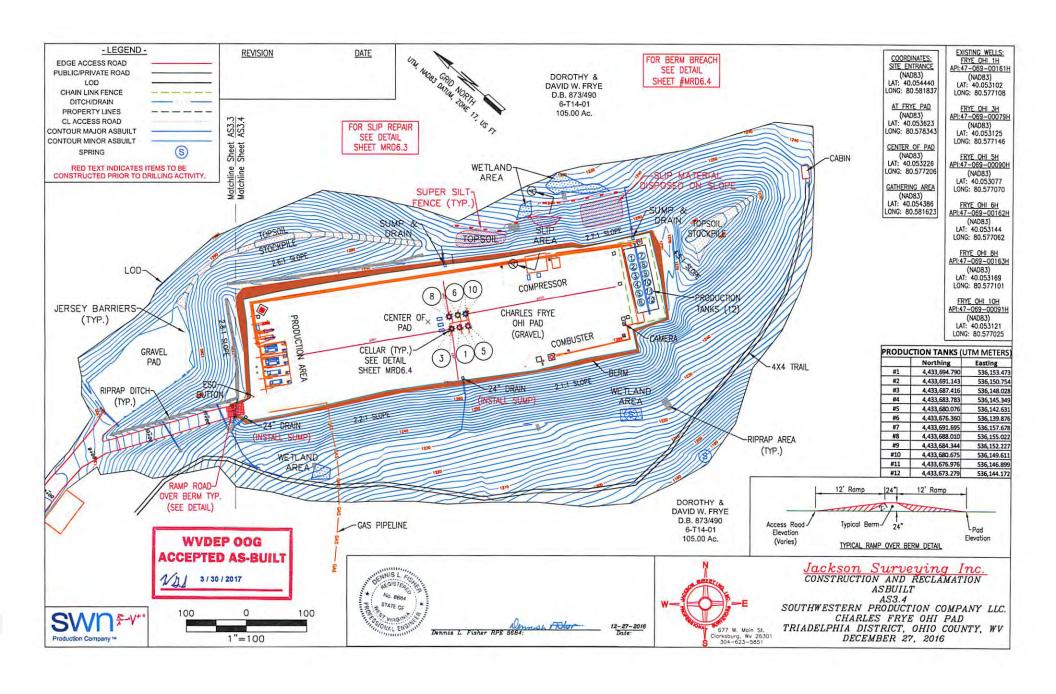
LAT: 40.053121

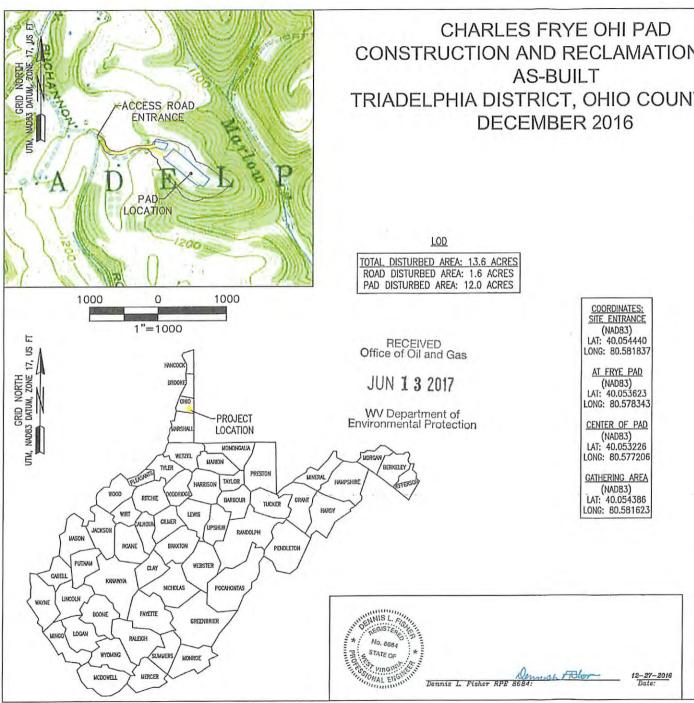
LONG: 80.577025

Jackson Surveying Inc.

TITLE SHEET TS.1

SOUTHWESTERN PRODUCTION COMPANY LLC. CHARLES FRYE OHI PAD TRIADELPHIA DISTRICT, OHIO COUNTY, WV DECEMBER 27, 2016





CONSTRUCTION AND RECLAMATION PLAN TRIADELPHIA DISTRICT, OHIO COUNTY, WV

> EXISTING WELLS: FRYE OHI 1H API:47-069-00161H (NAD83)

LAT: 40.053102 LONG: 80.577108

FRYE OHI 3H API:47-069-00079H (NAD83) LAT: 40.053125 LONG: 80.577146

FRYE OHI 5H API:47-069-00090H (NAD83)

LAT: 40.053077 LONG: 80.577070 FRYE OHI 6H

API:47-069-00162H (NAD83) LAT: 40.053144 LONG: 80.577062

FRYE OHI 8H API:47-069-00163H (NAD83) LAT: 40.053169 LONG: 80.577101

FRYE OHI 10H API:47-069-00091H (NAD83) LAT: 40.053121

LONG: 80.577025

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AS3.2 ASBUILT

AS3.3 ASBUILT AS3.4 ASBUILT

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MRD5.1 RECLAMATION PLAN OVERVIEW

MRD5.2 RECLAMATION PLAN MRD5.3 RECLAMATION PLAN

MRD5.4 RECLAMATION PLAN

MRD6.3 DETAILS

MRD6.4 DETAILS

REVISION

DATE

(.5.17







TITLE SHEET TS.1

SOUTHWESTERN PRODUCTION COMPANY LLC. CHARLES FRYE OHI PAD TRIADELPHIA DISTRICT, OHIO COUNTY, WV DECEMBER 27, 2016