

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

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

Wednesday, August 1, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for DALLAS HALL OHI 1H 47-069-00281-00-00

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: DALLAS HALL OHI 1H

Farm Name: HALL, AGNES L

U.S. WELL NUMBER: 47-069-00281-00-00

Horizontal 6A New Drill Date Issued: 8/1/2018

API Number: 47-069-0028

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

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

API Number: 47-069-00281

PERMIT CONDITIONS

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

OPERATOR WELL NO. Dallas Hall OHI 1H
Well Pad Name: Dallas Hall OHI Pad

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

			- Variable Control		
1) Well Operator: SWN Produ	ction Co., LLC	494512924	069-Ohio	3-Liberty	247-Bethany
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Da	llas Hall OHI 1F	Well F	ad Name: Dalla	as Hall OHI	Pad
3) Farm Name/Surface Owner:	Agnes L. Hall	Public R	oad Access: G	C & P Road	i .
4) Elevation, current ground:	1275' E	levation, propose	d post-construc	tion: 1275'	
5) Well Type (a) Gas X Other	Oil	Ur	derground Stora	age	
(b)If Gas Sha	llow X	Deep			
Hor	izontal X		d	Bels	
6) Existing Pad: Yes or No Yes	8		_ (.)	Bul s	7-18
 Proposed Target Formation(s) Target Formation- Marcellus, Up-Dip to the 					Associated Pressure- 3996
8) Proposed Total Vertical Depti	h: 6129'				
9) Formation at Total Vertical D	The state of the s	3			
10) Proposed Total Measured De	epth: 16700'				
11) Proposed Horizontal Leg Le	ngth: 10054.20)'			
12) Approximate Fresh Water St	trata Depths:	410'			
13) Method to Determine Fresh	Water Depths:	water well			
14) Approximate Saltwater Dept	ths: 601' SWN s	salinity profile			
15) Approximate Coal Seam De	pths: 446'				
16) Approximate Depth to Possi	ble Void (coal m	ine, karst, other)	Possible Void	d 446'.	
17) Does Proposed well location directly overlying or adjacent to		ms Yes	N	o <u>x</u>	On An
(a) If Yes, provide Mine Info:	Name:				MAY 21
					At 2 and C
	Depth:				14 0
	Depth:			Sn	inon Department of Total Protection

API NO. 47-069 6 9 0 0 2 8 1

OPERATOR WELL NO. Dallas Hall OHI 1H
Well Pad Name: Dallas Hall 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#	520'	520'	496 sx/CTS
Coal							
Intermediate	9 5/8"	New	J-55	36#	1920'	1920' V	732 sx/CTS
Production	5 1/2"	New	HCP-110	20#	16700'	16700'	load 822sx Tail 2461sx Inside Intermedia
Tubing							
Liners							

C-BRD 5-7-18

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

PACKERS

Kind:	Office OF ECEIVA
Sizes:	MAY 21
Depths Set:	Environmental Provided Provide

WW-6B (10/14)

API NO. 47-069 OPERATOR WELL NO. Dallas Hall OHI 1H

Well Pad Name: Dallas Hall OHI Pad

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

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. Run casing not less than 20' below void nor more than 100' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing a minimum of 50' below freshwater interval and cement to surface.)

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 @ 100 barrels a minute.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 22.60 22) Area to be disturbed for well pad only, less access road (acres): 8.54 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 Office of Oil and Gas continuing until operator is satisfied with borehole conditions.

*Note: Attach additional sheets as needed.

Environmental Protection

Wy Department of



179 Innovation Drive Jane Lew, WV 26378 Tel: 304 884 1610

SWN Production Company, LLC

Tel: 304 884 1610 Fax: 304 471 2497 www.swn.com

May 1, 2018

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

RE: Proposed New Well Dallas Hall OHI 1H

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 Hall's property, in Liberty District, Ohio County, West Virginia.

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

Thank you.

1

Sincerely,

Dee Southall

Senior Regulatory Analyst

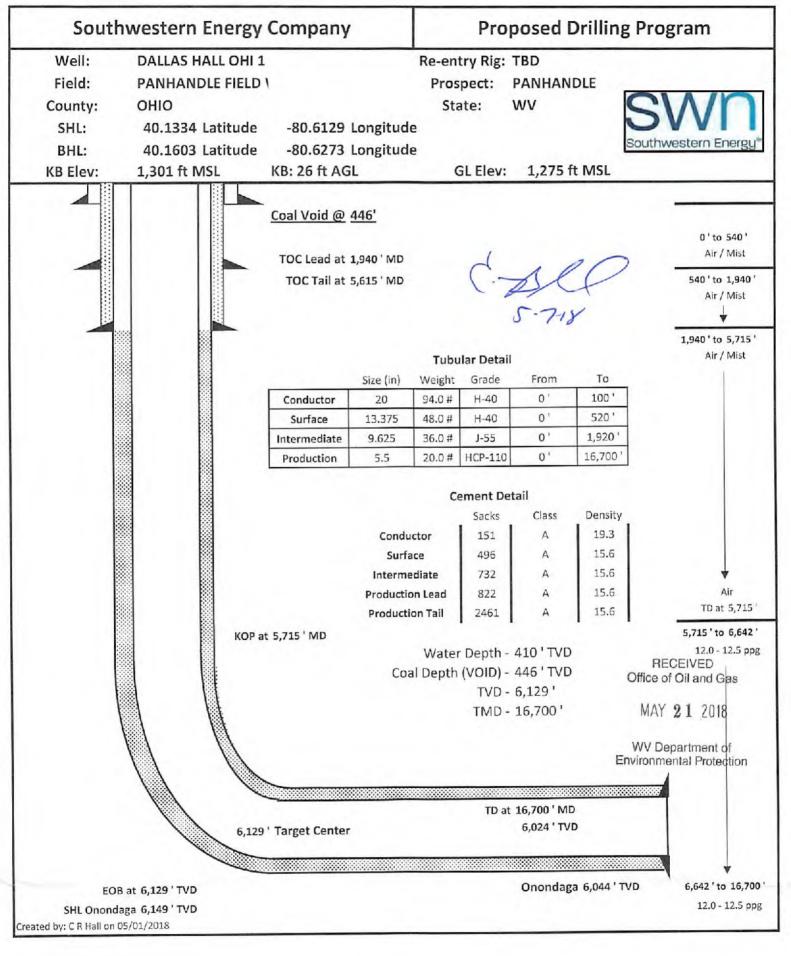
Southwestern Energy Production Company, LLC

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MAY 21 2018

WV Department of Environmental Protection





Schlumberger Cement Additives

	Product Name	Product Use	Chemical Name	CAS Number
Surface	5001	accelerator	calcium chloride	10043-52-4
Intermediate Surface	S001	accelerator	calcium chloride	10043-52-4
J	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
် ဦ ္က	D801	retarder	aromatic polymer derivative	propriatary
Kick Off Plug	D047	antifoam	polypropylene glycol	25322-69-4
	D167	fluid loss	aliphatic amide polymer	propriatary
ł	D154	extender	non-crystalline silica	7631-86-9
	D400	gas migration	boric acid	10043-35-3
			polypropylene glycol	25322-69-4
pa	D046	antifoam	fullers earth (attapulgite)	8031-18-3
Production-Lead			chrystalline silica	14808-60-7
ţ	D201	retarder	metal oxide	propriatary
ıπρ			sulphonated synthetic polymer	propriatary
Pre	D202	dispersant	formaldehyde (impurity)	propriatary
			polypropylene glycol	25322-69-4
	D046	antifoam	fullers earth (attapulgite)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	propriatary
귷			sodium polynaphthalene sulfonate	9008-63-3
Ę	D065	dispersant	sodium sulfate	7757-82-6
Production-Tall			chrystalline silica	14808-60-7
ğ	D201	retarder	metal oxide	propriatary
Pro	D153	anti-settling	chrystalline silica	14808-60-7

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Office of Oil and Gas

MAY 21 2018

WV Department of Environmental Protection WW-9 (2/15)

API Number 47 - 069

Operator's Well No. Dallas Hall OHI 1H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

	DP Code 494512924 Thinks
	OP Code 494512924 10,00
Watershed (HUC 10) Upper Ohio South Quadrangle Be	strany
Do you anticipate using more than 5,000 bbls of water to complete the proposed well Will a pit be used? Yes No	OP Code 494512924 Shipton State of Stat
If so, please describe anticipated pit waste:	
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 34-155-22403, 34-055- Reuse (at API Number at next anticipated well, API# will be included: Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain flow back fluids will be put in steel tanks and recommendation)	with the WR-34/DDMR &/or permit addendum. On)
Will closed loop system be used? If so, describe: Yes	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, or	oil based, etc. Air and salt saturate mud
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base	
Additives to be used in drilling medium? Attachment 3A	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill	V
-If left in pit and plan to solidify what medium will be used? (cement, lime,	, sawdust)
-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1032, Argen Langfill 10072, Apex Sanitary Langfill Ub-U8438, Brooke C	Co SWF-1013, Valley 100280
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill West Virginia solid waste facility. The notice shall be provided within 24 hours of rej where it was properly disposed.	l cuttings or associated waste rejected at any jection and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GEN on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of provisions of the permit are enforceable by law. Violations of any term or conditional law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am far application form and all attachments thereto and that, based on my inquiry of obtaining the information, I believe that the information is true, accurate, and copenalties for submitting false information, including the possibility of fine or impriso	Environmental Protection. I understand that the on of the general permit and/or other applicable familiar with the information submitted on this those individuals immediately responsible for emplete. I am aware that there are significant
Company Official Signature	OFFICIAL SFAL
Company Official (Typed Name) Dee Southall	ENTLANY R WOODY
Company Official Title Senior Regulatory Analyst	5.02 Corellon GSAB Elic Kapingh, WV 26931 By Lances Journal of the Corellon Journal of 27, 252
Company Official Fite	The second secon

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Operator's Well No. Dallas Hall OHI 1H

Proposed Revegetation Treatment: Ac	res Disturbed 22.60	Prevegetati	ion pl1
Lime as determined by pH lest m.n. 2 Tons	/acre or to correct to pH	8.54	
Fertilizer type 10-20-20			
Fertilizer amount 600	lbs/	acre	
Mulch Hay/Straw 2.5	Tons/ac	re	
	Seed 1	Mixtures	
Temporary		P	ermanent
Seed Type lbs. Attachment 3B	/асте	Seed Type	lbs/acre
rawing(s) of road, location, pit and provided)	pographic sheet.		ans including this info have be
Prawing(s) of road, location, pit and provided) Photocopied section of involved 7.5' to Plan Approved by:			ans including this info have be
Attach: Drawing(s) of road, location, pit and prorovided) Photocopied section of involved 7.5' to Plan Approved by: Comments:	pographic sheet.		
Prawing(s) of road, location, pit and provided) Photocopied section of involved 7.5' to Plan Approved by:	pographic sheet.		Office of Oil and
Orawing(s) of road, location, pit and provided) Photocopied section of involved 7.5' to Plan Approved by:	pographic sheet.		

Drilling Mediums

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

Friction Reducers

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Environmental Protection



WVD Seeding Specification

ORGANIC PROPERTIES



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	SWN	l 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%	

COIL AMENDMENTS	Solos per acre of Wiliter Wheat
Apply @ 100lbs per acre April 16th- Oct. 14th	Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat
Annie G 100lbs nos noso	Apply @ 200lbs per acre

SOIL AIVILIADIVILIAIS	
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.

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

Apply @ 100lbs per acre
April 16th- Oct. 14th

Apply @ 200lbs per acre
Oct. 15th- April 15th

Organic Fertilizer @ 200lbs per Acre Pelletized Lime @ 2 Tons per Acre

WETLANDS (delineated as jurisdictional wetlands)

April 16th- Oct. 14th

Seed Mixture: Wetland Mix	SWN Supplied				
VA Wild Ryegrass	20%				
Annual Ryegrass	20%				
Fowl Bluegrass	20%				
Cosmos 'Sensation'	10%				
Redtop	5%	П			
Golden Tickseed	5%	WV Department of Environmental Protection		0	
Maryland Senna	5%	Onr.	MAY	ffice	
Showy Tickseed	5%)ep		of EC	
Fox Sedge	2.5%	antr	2	RECEIVED Office of Oil and	
Soft Rush	2.5%	Pro	2	VEL	
Woolgrass	2.5%	tect	2018) Gas	
Swamp Verbena	2.5%	ion		S	
Apply @ 25lbs per acre		Apply @ 5	Olbs per	racre	

NO FERTILIZER OR LIME INSIDE WETLAND LIMITS

Oct. 15th-April 15th

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

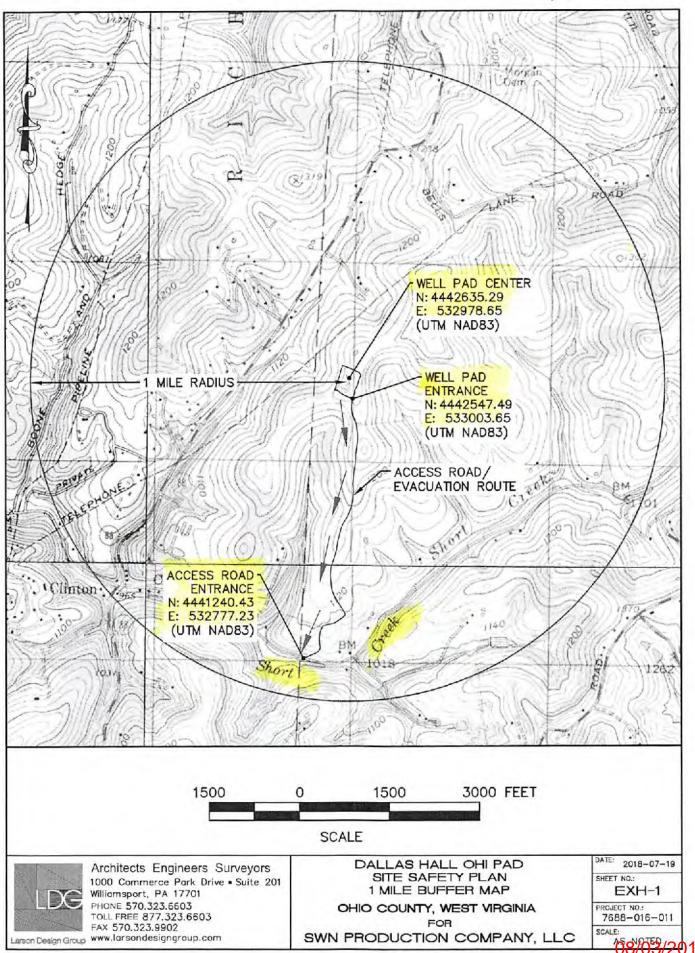


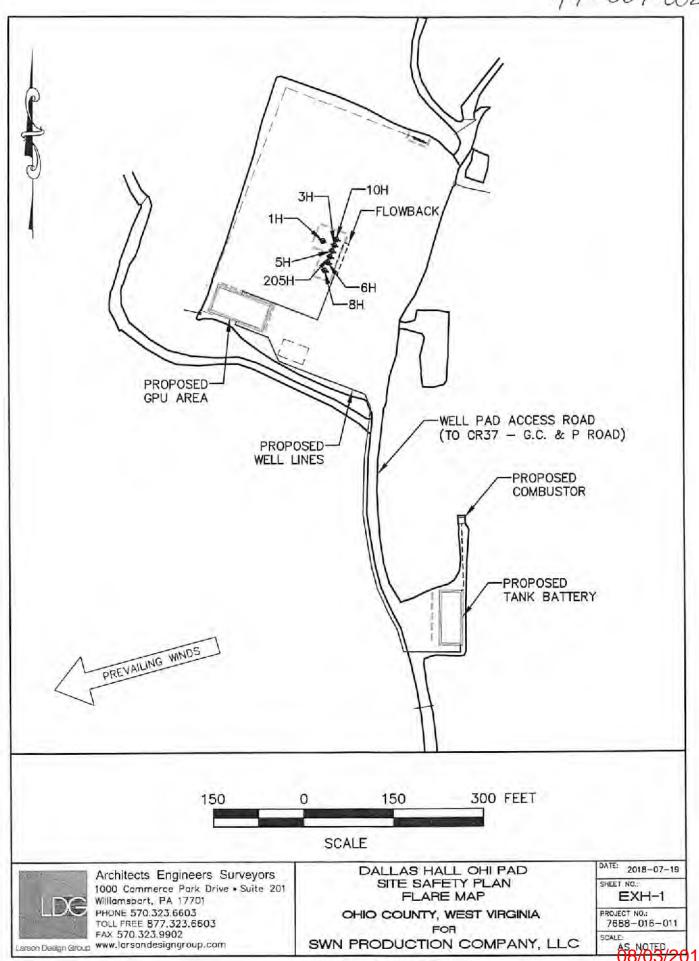
SWN Production Company, LLC 179 Innovation Drive Jane Lew, West Virginia 26378

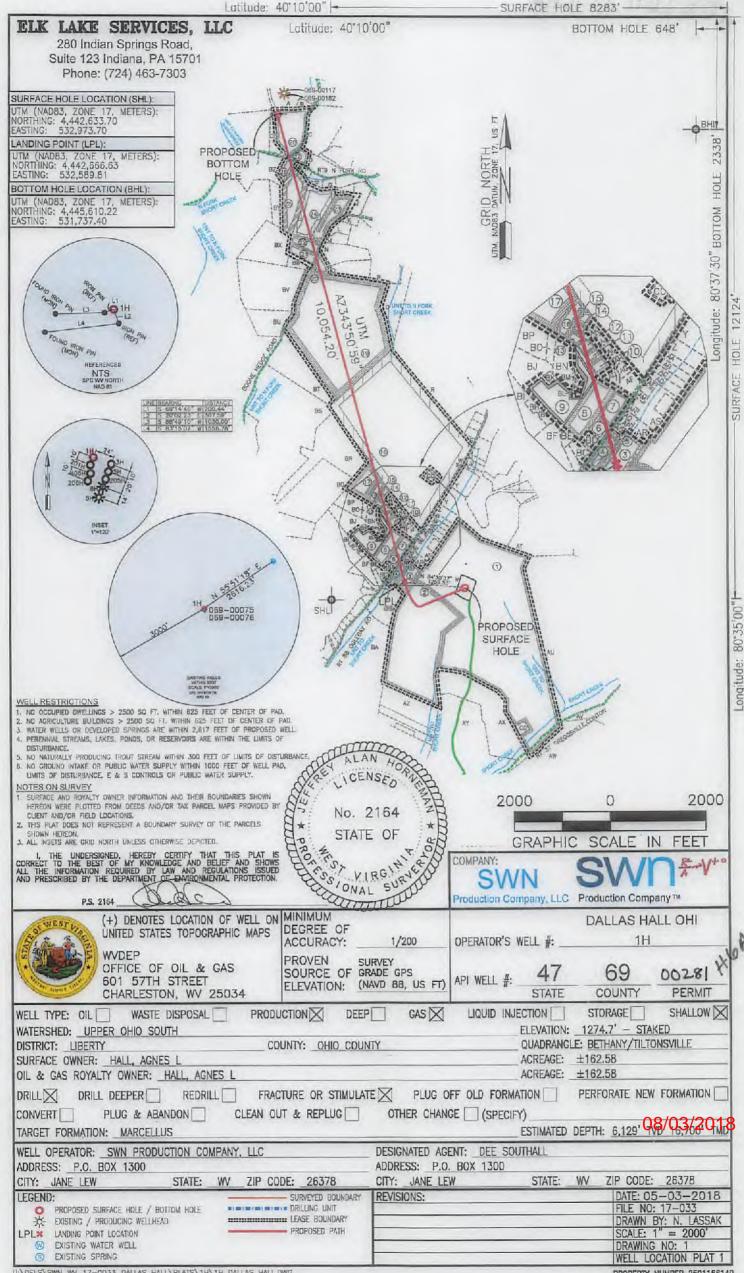
API NO. 47-XXX-XXXXX
WELL NAME: Dallas Hall OHI 1H
Bethany QUAD
Liberty DISTRICT
Ohio COUNTY, WEST VIRGINIA

Submitted by: Dee Southall	Date:	4/23/2018	
Senior Regulatory Title: Analyst	SWN Pr	roduction Co., LLC	
Title: Did Go Ingen	Date:	5-7-1r	Office RECEIVED MAI 21
Approved by: Title:	Date:		Environmental Protection

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL







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ELK LAKE SERVICES, LLC

280 Indian Springs Road, Suite 123 Indiana, PA 15701 Phone: (724) 463-7303

	WELL BORE TABLE FOR SURFACE / ROYALTY	OWNERS
TRACT	SURFACE OWNER / ROYALTY OWNER	TAX PARCEL
1	HALL, AGNES L	3-L7-19
TRACT	SURFACE OWNER	TAX PARCEL
2	HALL, AGNES L	3-L7-21.1
3	PYLE, JOHN R SR AND THERESA A	4-R128-1.1
4	ERNEST, DOUGLAS J & JAMIE S	4-R128-1.2
5	PYLE, JOHN R & THERESA A	4-R128-5
6	WEEKS, BRADLEY & NANCY	4-R9-34.1
7	LAURELWOOD HOMEOWNERS ASSN INC	4-R9-33
8	HUGHES, DONALD P AND MARY E	4-R9-34
9	HUGHES, DONALD P & MARY E	4-R9-32
10	KANTERS, ROBERT P W AND MARGARETHA J E	4-R9-36
11	MADAMA, DENNIS	4-R9-37
12	BLAKE, EDDIE L AND JAMIE R	4-R9-38
13	BLEIFUS, BRIAN A AND MARY ANN	4-R9-39
14	CHENOWETH, JOYCE A	4-R9-40
15	LATOS, GARY S & CATHLEEN M	4-R9-41
16	PAJAK, CLARK & SHARON L	4-R9-32.1
17	PAJAK, CLARK & SHARON L	4-R9-28
18	BROWN, LILLIAN W TRUST	3-L4-1.1
19	CAVENEY, CLAIRE M	4-R9-3
20	SWIGER, MARK J & DAWN S	4-R9-22.14
21	KELLAM, CHARLES R & PHYLLIS J	4-R9-22.12
22	KELLAM, CHARLES R & PHYLLIS J	4-R9-22.11
23	HALEY, RODNEY W & RHONDA L	4-R9-22.8
24	WEST, SR JAMES L AND KATHY L	4-R9-22.7
25	DELVECCHIO, DAVID A	4-R9-22.6
26	CRUPE, TERRY LEE	4-R6-21
27	CRABTREE, RANDALL LEE	4-R6-24
28	WOOD, RICHARD A JR	4-R6-24.6

	ADJOINING OWNERS TABLE	
RACT	SURFACE OWNER RAYLE COAL COMPANY	TAX PARCEL
A	RAYLE COAL COMPANY	4-R5-17.4
В	WINDSOR COAL COMPANY	4-R6-25
C	GOFF, WINDELL & GLAUTS	4-R5-24.3
D	HUNT, LESLIE A	4-R5-29
E	CRUPE, JOHN D & J D	4-R5-38
F	GALLOWAY, BRANDON C & CYNTHIA A	4-R6-39.2
G	GALLOWAY, BRADON C & CYNTHIA A	4-R6-39.1
H	KLAPKA, JOSHUA M	4-R9-19
1	TAGGART, VELMA L	4-R9-18
J	BOYNES, LARRY & TERRY	4-R9-22.9
K	TAYLOR, JEFFREY C & G K	4-R9-20
L	TAYLOR, JEFFREY C & GINGER K	4-R9-22.18
M	RATCLIFFE, JOHN C & KATHY J	4-R9-22.17
N	WOOD, GEORGE E & CAROL A SWIGER, MARK J & DAWN S	4-R9-22.16
C	SWIGER, MARK J & DAWN S	4-R9-22.15
P	RATCLIFFE, JOHN C	4-R9-22.20
0	MCKAY, PAUL M & DEBORAH A	4-R9-51
R	MCKAY, PAUL M & DEBORAH A	3-L4-1
S	BLAKE, REFECCA 1	3-L4-1.7
T	MCKAY, PAUL M & DEBORAH A	3-L4-10.1
Ü	MCKAY, PAUL M & DEBORAH A	
V	ROSE, JAMES F & ANN C	3-L4-10
		3-14-12
W	ROSE, JAMES F AND ANN C	3-14-14
X	WEAVER, DAVID M & BETH R	3-L4-13
Y	WEAVER, DAVID M & BETH R	3-L4-15
Z	OPIC CRYSTAL	3-L4-20
AA	RUTHERS, DAVID G & LINDA F	3-L4-22
AB	STROMATOS, GEORGE	3-L4-24.2
AC	STROMATOS, GEORGE	3-L4-24.1
AD	STROMATOS, GEORGE	3-L4-24
AE	BLEND, ERIC N	4-R128-2
AF	FRID, JAMES W & KAREN L	4-R9-47
AG	HICKEY, BRIAN P; HICKEY, JOHN P	
AH	CONNECCIO DAMO W 2. TERRI A	4-R9-46
	SONNEFELD, DAVID W & TERRI A SONNEFELD, DAVID W & TERRI A	4-R9-45
Al	SUNNEFELD, DAVID W & TERRI A	4-R9-44
AJ	BECK, ROBERT	4-R9-43
AK	PISSOS, MARK E & J L	4-R9-42
AL	WILLIAMS, JOHN WAYNE	4-R9-35
AM	TAYLOR, DAVID L & ESTELLA, ANN	4-R12B-1.7
AN	TAYLOR, DAVID L & ESTELLA, ANN TAYLOR, DAVID L & ESTELLA ANN	4-R12B-4
AO	KOZUSNIK, WARK A	4-R12B-1,8
AP	HASTINGS, MARY ANN	4-R12B-1.4
AQ	JARVIS, WILLIAM R & SANDRA K	4-R12B-6
AR	KELLAS, STEVE	4-R12B-1.5
AS	GOSSETT, MATHEW H	4-R12B-1
AT	EVANS, CATHERINE & DAVID	3-L4-13.1
AU	CLISER, MARY HELEN; TR	
AV	JONES, JAMES R & JUNE M	3-L7-20
	MULTAVED CEDERE & ANTA	3-L7-18
AW	WHITAKER GEORGE & ANITA	3-L7-27
AX	HALL, DALLAS J & AGNES L	3-L7-20
AY	HALL, DALLAS J & AGNES L	3-L7-21
AZ	MEALY, MELISSA	4-R12-39
BA	WELTY, JOHN P	4-R12-35
BB	CASTLE, KEITH D CARTISANO, JOSEPH S & S P	4-R12B-1.3
BC	CARTISANO, JOSEPH S & S P	4-R12-36.4
BD	PETTIT, BERNARD R	4-R12-48
BE	BURKHART, MARY J G & M J	4-R12-36.3
BF	CROFT, JAMES E & J J	4-R12-36
BG	CROFT, JAMES & JOANNE	4-R12B-1
BH	GREATHOUSE, WILLIAM J & SUSAN M	4-R12B-1.7
	HARTLEY, BRADFORD & NANNETTA	4-R9-1.3
BI	HART, MARY ANN	
BJ		4-R9-29.1 4-R9-32.3
BK	FUNKHOUSER, DAWNA M	4-19-32.3
BL	SHILLING, KATHY SUE H	4-R9-32.4
BM	HUFFMAN, VICKI H & D L	4-R9-32.2
BN	BENLINE, JOSEPH WAYNE	4-R9-31
BO	MILLER, JEFFREY L & CATHY	4-R9-30
BP	JOHNSON, JUDY K	4-R9-29
BQ	RCK 2 GROUP ILC	4-R9-1
BR	RCK 2 GROUP LLC	4-R9-27
BS	RCK 2 GROUP LLC EVANS, LA DONNA MARTIN	4-R9-27 4-R9-3.5
	WESBANCO TRUST & INVESTMENT SERVICE	4-R9-15.1
BT		4-R9-10.1
BU	MAIN, DAVID B & L M	
BA	MAIN, DAVID B & L M	4-R9-10.1
BX	KELLAM, CHARLES R & PHYLLIS J	4-R9-22.1
BY	MILTON, JASON D CRUPE, TERRY LEE	4-R9-22.5
BZ	CRUPE, TERRY LEE	4-R6-2.1
CA	GODDARD, GWENDOLYN	4-R5-24.5
CB	WOOD, EDITH M	4-R6-22
CC	BROWN, ROBERT E	3-L4-1.3

08/03/2018 COMPANY: REVISIONS: SWN Production Company, LLC Production Company™ DATE: 05-03-2018
FILE NO: 17-033
DRAWN BY: N. LASSAK
SCALE: N/A
DRAWING NO: 1
WELL LOCATION PLAT 1 OPERATOR'S DALLAS HALL WELL #: 1H DISTRICT: LIBERTY COUNTY: OHIO COUNTY STATE: PROPERTY NUMBER 2501166149 PAD ID 3001155646

WW-6A1 (5/13)

Operator's Well No.	Dallas Hall OHI 1H
---------------------	--------------------

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 –

- 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

WV Department of Environmental Protection

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Office of Oil and Gas

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, LLC.
D	70.	

Бу:

Its:

Landman

Page 1 of ____

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MAY **21** 2018

WV Department of Environmental Protection

Exhibit "A" Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator Dallas Hall OHI 1H Ohio County, West Virginia

#	TAX ID	LESSOR	LESSEE	ROYALTY	BK/PG
1	03-L7-19	Dallas J. Hall and Agnes L. Hall, husband and wife	Chesapeake Appalachia, L.L.C.	18.5%	811/34
			SWN Production Company, LLC		884/61
2	03-L7-21.1	Dallas J. Hall and Agnes L. Hall, husband and wife	Chesapeake Appalachia, L.L.C.	18.5%	811/34
			SWN Production Company, LLC		884/61
3	04-R12B-1.1	John R. Pyle Sr. and Theresa A. Pyle,	Chesapeake Appalachia, L.L.C.	18%	813/328
		husband and wife	SWN Production Company, LLC		884/133
4	04-R12B-1.2	Douglas J. Ernest and Jamie S. Ernest,	Chesapeake Appalachia, L.L.C.	18%	831/534
		husband and wife	SWN Production Company, LLC		884/729
5	04-R12B-5	John R. Pyle and Theresa A. Pyle,	Chesapeake Appalachia, L.L.C.	18%	813/83
		husband and wife	SWN Production Company, LLC		884/121
6	04-R9-34.1	Bradley C. Weeks and Nancy K. Weeks,	Chesapeake Appalachia, L.L.C.	18%	817/391
		husband and wife	SWN Production Company, LLC		884/681
7	04-R9-33	Laurel Homes of West Virginia, Inc., a/k/a	Chesapeake Appalachia, L.L.C.	18%	814/476
		Laurelwood Homeowners Association, Inc.	SWN Production Company, LLC		884/669
8	04-R9-34	Donald P. Hughes and Mary Ellen Hughes,	Mountaineer Natural Gas Company	16%	832/330
		husband and wife	Chesapeake Appalachia, L.L.C.		862/28
			SWN Production Company, LLC		885/77
9	04-R9-32	Donald P. Hughes and Mary Ellen Hughes,	Mountaineer Natural Gas Company	16%	832/334
		husband and wife	Chesapeake Appalachia, L.L.C.		862/28
	•		SWN Production Company, LLC		885/77
10	04-R9-36	Robert P. W. Kanters and Margaretha J. E. Kanters,	Chesapeake Appalachia, L.L.C.	18%	814/378
	•	husband and wife	SWN Production Company, LLC		884/445
11	04-R9-37	Dennis Madama, a single man	Chesapeake Appalachia, L.L.C.	18%	815/621
			SWN Production Company, LLC		884/445

#	TAX ID	LESSOR	LESSEE	ROYALTY	BK/PG
		Mark K. Hayes and Rhonda J. Hayes,	Chesapeake Appalachia, L.L.C.	18%	813/182
12	04-R9-38	husband and wife	SWN Production Company, LLC		884/133
	04.00.20	Brian A. Bleifus and Mary Ann Bleifus,	Chesapeake Appalachia, L.L.C.	18%	813/315
13	04-R9-39	husband and wife	SWN Production Company, LLC		884/445
	04.00.40	Joyce A. Chenoweth, a widow	Chesapeake Appalachia, L.L.C.	18%	816/195
14	04-R9-40	Joyce A. Chenoweth, a widow	SWN Production Company, LLC		884/469
	04.00.44	Gary S. Latos and Cathleen M. Latos,	Chesapeake Appalachia, L.L.C.	18%	816/522
15	04-R9-41	husband and wife	SWN Production Company, LLC		884/457
	44.00.00.4	Clark Pajak a/k/a Clark W. Pajak and	Chesapeake Appalachia, L.L.C.	18%	818/489
16	04-R9-32.1	Sharon L. Pajak, husband and wife	SWN Production Company, LLC		885/584
	24.50.00	Clark Pajak a/k/a Clark W. Pajak and	Chesapeake Appalachia, L.L.C.	18%	818/489
17	04-R9-28	Sharon L. Pajak, husband and wife	SWN Production Company, LLC		885/584
	001444	Robert O. Rogers, a married man dealing in his	SWN Production Company, LLC	18%	902/502
18	03-L4-1.1	sole and separate property			
	051444	Rome H. Brown and Lillian W. Brown, his wife	Great Lakes Energy Partners, L.L.C.	15.5%	768/508
18	03-L4-1.1	Rollie H. Diowil allu Lillian W. Diown, his wife	Chesapeake Appalachia, L.L.C.		808/434
			SWN Production Company, LLC		883/527

WV Department of Environmental Protection

Dallas Hali Northwest Unit 2 of 4

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#	TAX ID	LESSOR	LESSEE	ROYALTY	BK/PG
		Mark K. Hayes and Rhonda J. Hayes,	Chesapeake Appalachia, L.L.C.	18%	813/182
12	04-R9-38	husband and wife	SWN Production Company, LLC		884/133
	04.00.20	Brian A. Bleifus and Mary Ann Bleifus,	Chesapeake Appalachia, L.L.C.	18%	813/315
13	04-R9-39	husband and wife	SWN Production Company, LLC		884/445
	04.00.40	Joyce A. Chenoweth, a widow	Chesapeake Appalachia, L.L.C.	18%	816/195
14	04-R9-40	Joyce A. Chenoweth, a widow	SWN Production Company, LLC		884/469
	04.00.44	Gary S. Latos and Cathleen M. Latos,	Chesapeake Appalachia, L.L.C.	18%	816/522
15	04-R9-41	husband and wife	SWN Production Company, LLC		884/457
	44.00.00.4	Clark Pajak a/k/a Clark W. Pajak and	Chesapeake Appalachia, L.L.C.	18%	818/489
16	04-R9-32.1	Sharon L. Pajak, husband and wife	SWN Production Company, LLC		885/584
	24.50.00	Clark Pajak a/k/a Clark W. Pajak and	Chesapeake Appalachia, L.L.C.	18%	818/489
17	04-R9-28	Sharon L. Pajak, husband and wife	SWN Production Company, LLC		885/584
	001444	Robert O. Rogers, a married man dealing in his	SWN Production Company, LLC	18%	902/502
18	03-L4-1.1	sole and separate property			
	051444	Rome H. Brown and Lillian W. Brown, his wife	Great Lakes Energy Partners, L.L.C.	15.5%	768/508
18	03-L4-1.1	Rollie H. Diowil allu Lillian W. Diown, his wife	Chesapeake Appalachia, L.L.C.		808/434
			SWN Production Company, LLC		883/527

WV Department of Environmental Protection

Dallas Hali Northwest Unit 2 of 4

8102 I 2 YAM

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#	TAX ID	LESSOR	LESSEE	ROYALTY	BK/PG
18	03-L4-1.1	Ohio Valley Medical Center, Inc.; The Parks	SWN Production Company, LLC	18%	908/708
		System Trust Fund of Wheeling; Children's Home			
		of Wheeling, Inc.; Elmhurst, the House of			
		Friendship, Inc.; Vance Memorial Presbyterian			
		Church; Young Women's Christian Association			
		of Wheeling, W. Va., Inc.			
18	03-L4-1.1	Wheeling Young Men's Christian Association	SWN Production Company, LLC	18%	926/299
19	04-R9-3	Robert O. Rogers, a married man dealing in his	SWN Production Company, LLC	18%	902/502
		sole and separate property			
19	04-R9-3	Claire M. Caveney, a married woman dealing in	Chesapeake Appalachia, L.L.C.	18%	826/773
	-	her sole and separate property	SWN Production Company, LLC		884/717
19	04-R9-3	Ohio Valley Medical Center, Inc.; The Parks	SWN Production Company, LLC	18%	908/708
		System Trust Fund of Wheeling; Children's Home			-
		of Wheeling, Inc.; Elmhurst, the House of			
		Friendship, Inc.; Vance Memorial Presbyterian			
		Church; Young Women's Christian Association			The state of the s
		of Wheeling, W. Va., Inc.			
19	04-R9-3	Wheeling Young Men's Christian Association	SWN Production Company, LLC	18%	926/299
20	04-R9-22.14	Mark J. Swiger and Dawn S. Swiger,	Chesapeake Appalachia, L.L.C.	18%	817/395
		husband and wife	SWN Production Company, LLC		884/529

Dallas Hail Northwest Unit 3 of 4

WV Department of Environmental Protection

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#	TAX ID	LESSOR	LESSEE	ROYALTY	BK/PG
21	04-R9-22.12	Charles R. Kellam and Phyllis J. Kellam, his wife	Great Lakes Energy Partners, L.L.C.	12.5%	780/154
			Chesapeake Appalachia, L.L.C.		808/570
			SWN Production Company, LLC		884/169
22	04-R9-22.11	Charles R. Kellam and Phyllis J. Kellam, his wife	Great Lakes Energy Partners, L.L.C.	12.5%	780/154
			Chesapeake Appalachia, L.L.C.		808/570
			SWN Production Company, LLC		884/169
23	04-R9-22.8	Rodney W. Haley and Rhonda L. Haley,	Chesapeake Appalachia, L.L.C.	18%	812/254
		husband and wife	SWN Production Company, LLC		884/181
24	04-R9-22.7	James L. West Sr. and Kathy L. West,	Chesapeake Appalachia, L.L.C.	18%	822/366
		husband and wife	SWN Production Company, LLC		884/693
25	04-R9-22.6	David A. Delvecchio, a married man dealing in his	Chesapeake Appalachia, L.L.C.	18%	814/759
		sole and separate property	SWN Production Company, LLC		884/193
26	04-R6-21	Heidi M. Twaddle, a single woman	Chesapeake Appalachia, L.L.C.	18%	811/792
			SWN Production Company, LLC		884/169
27	04-R6-24	Randall Crabtree a/k/a Randall Lee Crabtree,	SWN Production Company, LLC	16%	920/610
		a single man			
28	04-R6-24.6	Richard Allen Wood, Jr., a married man dealing in	Chesapeake Appalachia, L.L.C.	18%	811/420
		his sole and separate property	SWN Production Company, LLC		884/157

WV Department of Environmental Protection

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Dallas Hall Northwest Unit 4 of 4

Office of Oil and Gas



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

May 8, 2018

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

RE: SWN's proposed New Well: Dallas Hall OHI 1H in Ohio County, West Virginia, Drilling under RT9 Fork Road, Boone Hedge Road, and RT 88 Oglebay 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 RT9 Fork Road, Boone Hedge Road, and RT 88 Oglebay 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,

Bradley Wilson

Landman

SWN Production Company, LLC

PO Box 12359

Spring, TX 77391-2359

WV Department of Environmental Protection

MAY 21 2018

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Office of Oil and Gas

R-ANV+

The Right People doing the Right Things, wisely investing the cosh flow from our underlying Assets, will create Value+⁶

10000 Energy Drive Spring, TX 77389-4954 WW-6AC (1/12) RECEIVED
Office of Oil and Gas

WAY 21 2018

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND Construent of Environmental Protection

	ce Certification: 5 18 18		Well Pad N	Well No. Dallas Hall OHI 1H
Notice has	been given:		vven rau i	tante.
	ne provisions in West Virginia Code § 22-6A, tl	he Operator has pro	vided the rec	quired parties with the Notice Forms listed
below for the	tract of land as follows:			and the second s
State:	West Virginia	UTM NAD 83	Easting:	532974
County:	069-Ohio	UTM NAD 83	Northing:	4442634
District:	Liberty	Public Road Ac	cess:	G C & P Road
Quadrangle:	Bethany	Generally used	farm name:	Dallas Hall
Watershed:	Upper Ohio South			

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

Pursuant to West Virginia Code § 22-6A, the Op that the Operator has properly served the require *PLEASE CHECK ALL THAT APPLY	erator has attached proof to this Notice Certification d parties with the following:	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/ NOT REQUIRED
2. NOTICE OF ENTRY FOR PLAT SURV	YEY or ☐ NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
3. NOTICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
	☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
■ 4. NOTICE OF PLANNED OPERATION		☐ RECEIVED
■ 5. PUBLIC NOTICE		☐ RECEIVED
■ 6. NOTICE OF APPLICATION		☐ RECEIVED

Required Attachments:

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

WW-6AC (1/12)

Certification of Notice is hereby given:

THEREFORE, I Dee Southall , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: SWN Production Co., LEC

By: Dee Southall

Its: Senior Regulatory Analyst

Telephone: 304-884-1614

Address: P.O. Box 1300

Jane Lew, WV 26378

Facsimile: 304-884-1690

Facsimile: 304-884-1690
Email: Dee_Southall@swn.com

NOTARY SEAL SEAL
Notary Public, State of West Virginia
BRITTANY R WOODY
SERVE Side Flying Road
Buckstamon, WV 201911
My commission Exp. 11 (1992)

Subscribed and sworn before me this

Notary Public

th day of U

My Commission Expires

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Office PECEIVED

MAY

21 2018

Environmental protection

API NO. 47- 069

OPERATOR WELL NO, Dallas Hall OHI 1H

Well Pad Name: Dallas Hall OHI Pad

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

Noti	ce Time Requirement: notice	e shall be provided no later that	n the filing date of permit application.	
	of Notice 5 18 18 Date P	ermit Application Filed:5	18 18	
√	PERMIT FOR ANY	CERTIFICATE OF ARR	POWAL FOR THE	Office of
V		☐ CERTIFICATE OF APPI		1- 0
	WELL WORK	CONSTRUCTION OF A	IN IMPOUNDMENT OR PIT	图 4 型
Deliv	very method pursuant to We	est Virginia Code § 22-6A-10	(b)	EMILIAN OR ALL OF THE PROPERTY AND
	PERSONAL REC	GISTERED	OD OF DELIVERY THAT REQUIRES A	Maria C
			PT OR SIGNATURE CONFIRMATION	000
	SERVICE MA	IL RECEI	PT OR SIGNATURE CONFIRMATION	of or
oil ar descr opera more well impo have provi propo subser ecor provi Code	and gas leasehold being developed in the erosion and sedime attor or lessee, in the event the tree coal seams; (4) The owners of work, if the surface tract is to bundment or pit as described in a water well, spring or water stide water for consumption by hosed well work activity is to take ection (b) of this section hold in ds of the sheriff required to be ision of this article to the contract R. § 35-8-5.7.a requires, in present the results of the sheriff requires the results of the sheriff requires at the results of the sheriff requires at the results of the sheriff requires the results of the sheriff requires at the results of the sheriff requires the results of the results of the sheriff requires the results of the results of the sheriff requires the results of the sheriff requires the results of the results of the sheriff requires the results of the result	ed by the proposed well work, if and control plan submitted pursual ract of land on which the well proposed for the surface tract or trace used for the placement, construction nine of this article; (5) A apply source located within one tumans or domestic animals; and the place. (c)(1) If more than three interests in the lands, the applicant maintained pursuant to section eary, notice to a lien holder is not art, that the operator shall also properties of the submitted and the submitted in the lands.	ted; (2) The owners of record of the surface tract of the surface tract is to be used for roads or other lar int to subsection (c), section seven of this article; (3 oposed to be drilled is located [sic] is known to be cits overlying the oil and gas leasehold being devel- uction, enlargement, alteration, repair, removal or a my surface owner or water purveyor who is known thousand five hundred feet of the center of the wel (6) The operator of any natural gas storage field we tenants in common or other co-owners of interest at may serve the documents required upon the perso- cight, article one, chapter eleven-a of this code. (2) notice to a landowner, unless the lien holder is the rovide the Well Site Safety Plan ("WSSP") to the s as provided in section 15 of this rule.	and disturbance as 3) The coal owner, a underlain by one or oped by the proposed abandonment of any to the applicant to I pad which is used to within which the is described in on described in the Notwithstanding any landowner, W. Va.
			✓ Well Plat Notice is hereby provided to:	
12 51	JRFACE OWNER(s)		☑ COAL OWNER OR LESSEE	/
	e: Agnes L. Hall	/	Name: Alliance Resources, GP LLC. Attn: Evan Midler	/
	ress: 1953 G C and P Road		Address: 2596 Battle Run Road	
	Iphia, WV 26059	-	Triadelphia, WV 26059	
Nam			□ COAL OPERATOR	
	ress:		Name:	
			Address:	
n st	JRFACE OWNER(s) (Road a	and/or Other Disturbance)		
	e:		SURFACE OWNER OF WATER WELL	
Add	ress:		AND/OR WATER PURVEYOR(s)	
			Name: none	
Nam			Address:	
	ress:		50 St. 35	
	572)		OPERATOR OF ANY NATURAL GAS ST	ORAGE FIELD
TISI.	JRFACE OWNER(s) (Impour	ndments or Pits)	Name:	
_	e:	Company of the Compan	Address:	
Add	ress:			
			*Please attach additional forms if necessary	
			all	

API NO. 47- 069 OPERATOR WELL NO. Dallas Hall OHI 1H
Well Pad Name: Dallas Hall OHI Pad

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

Not	ice Time Requiremen	t: notice shall be provi	ded no later than	n the filing date of permit application.
	e of Notice	Pate Permit Applica	tion Filet 5	18/18
V	PERMIT FOR ANY WELL WORK			ROVAL FOR THE AN IMPOUNDMENT OR PIT
Deli	ivery method pursuan	nt to West Virginia Co	ode § 22-6A-10	(b)
	PERSONAL SERVICE	REGISTERED MAIL		OD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION
desco oper mor well imp have prov prop subs	ment control plan requiresurface of the tract on wand gas leasehold being oribed in the crosion and rator or lessee, in the ever coal scams; (4) The own work, if the surface traction oundment or pit as described a water well, spring or wide water for consumptionsed well work activity section (b) of this section ords of the sheriff required vision of this article to the R. § 35-8-5.7.a required.	red by section seven of thich the well is or is prodeveloped by the propose sediment control plans sent the tract of land on womers of record of the sect is to be used for the pribed in section nine of water supply source locion by humans or domestis to take place. (c)(1) In hold interests in the lated to be maintained pursue contrary, notice to a lives, in part, that the open	this article, and the posed to be local sed well work, if submitted pursual which the well prorface tract or tractional lacement, constrained within one stic animals; and if more than threads, the applicant suant to section elien holder is not rator shall also provided within also provided within the section elien holder is not rator shall also provided well well as the section elien holder is not rator shall also provided well well as the section elien holder is not rator shall also provided well well as the section elien holder is not rator shall also provided well well as the section elien holder is not rator shall also provided well well as the section elien holder is not rator shall also provided well as the section elien holder is not rator shall also provided well well as the section elien holder is not rator shall also provided well well as the section elien holder is not rator shall also provided well well well as the section elien holder is not rator shall also provided well well well well as the section elien holder is not rator shall also provided well well as the section elien holder is not rator shall also provided well well well as the section elien holder is not rator shall also provided well well as the section elien holder is not rator shall also provided well well as the section elien holder is not retain the section elien the section elien holder is not retain the section elien t	r signature confirmation, copies of the application, the erosion and ne well plat to each of the following persons: (1) The owners of record of ted; (2) The owners of record of the surface tract or tracts overlying the the surface tract is to be used for roads or other land disturbance as int to subsection (c), section seven of this article; (3) The coal owner, oposed to be drilled is located [sic] is known to be underlain by one or cts overlying the oil and gas leasehold being developed by the proposed action, 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 (6) The operator of any natural gas storage field within which the extenants in common or other co-owners of interests described in at may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. covide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
Ø.	Application Notice 🛛	WSSP Notice E&	S Plan Notice	☑ Well Plat Notice is hereby provided to:
Nar	URFACE OWNER(s) ne: tress:		_	COAL OWNER OR LESSEE Name: Windsor Coal Company Address: 1000 Consol Energy Drive
			7	Canonsburg, PA 15317
Nar				☐ COAL OPERATOR
Add	iress:			Name:
П.С.	URFACE OWNER(s)	(Pand and/on Other Di		Address:
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	dress:		-	AND/OR WATER PURVEYOR(s)
				Name:
Nar	ne:			COAL OPERATOR Name: Address: SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: Address: CORPERATOR OF ANY NATIONAL CASESTOR A CONSTILING RECORD OF ANY NATIONAL CASESTOR A CONSTILING COAL OPERATOR OF WATER WELL ADDRESS: COAL OPERATOR OF WATER WELL AND COAL OPERATOR OF WATER WELL COAL OPERATOR OPERATOR OF WATER WELL COAL OPERATOR OPE
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DS	URFACE OWNER(s)	(Impoundments or Pits	5)	Name:
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				Trease anach additional forms it necessary

RECEIVED Office of Oil and Gas API NO. 47-969 OPERATOR WELL NO. Dallas Hall OHI 1H
Well Pad Name: Dallas Hall OHI Pad

Notice is hereby given:

MAY 21 2018

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 approval for the construction of the construct

This Notice Shall Include:

Environmental Protection

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.e, 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/oil-and-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

RECEIVED Office of Oil and Gas

API NO. 47-069

OPERATOR WELL NO. Dailas Hall OHI 1H

Well Pad Name: Dallas Hall OHI Pad

WAY 21 2018 Well Pad Name: Dallas Hall 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 factorial Protection

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 57th St. SE Charleston, WV 25304 (304) 926-0450

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

API NO. 47- 089 OPERATOR WELL NO. Dallas Hall OHI 1H
Well Pad Name: Dallas Hall OHI Pad

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

PECEIVED
Office of Oil and Gas
MAY 21 ,2018

WV Department of
Environmental Protection

PARCEL_ID	OWNER	ADDRESS	CITY_STATE_ZIP	WATERSOURCES
03 L7001900000000	HALL DALLAS J & AGNES L	1953 G C AND P RD	TRIADELPHIA WV 26059	1
04 R12B000100010000	PYLE JOHN R SR & T A	4042 OGLEBAY DR	WHEELING WV 26003	A
03 L4002200000000	RUTHERS DAVID G & LINDA F	4196 OGLEBAY DR	WHEELING WV 26003	1
03 L4002000000000	OPIC CRYSTAL	112 AVALON EST	WHEELING WV 26003	1



API NO. 47-069 OPERATOR WELL NO. Dallas Hall OHI 1H Well Pad Name: Dallas Hall OHI Pad

Notice is hereby given by:

Well Operator: SWN Production Co., L

Telephone: 304-884-1614 Email: Dee_Southall@swn.com Jane Lew, WV 26378

Facsimile: 304-884-1690

Address: P.O. Box 1300

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

> Watery Public State of West Virginia BRITTALLY B WOODY

Subscribed and sworn before me this 30th day of 1000

Notary Public

My Commission Expires

England Gas Polection

WW-6A3 (1/12)

Operator Well	No	Dallas Hall	
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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

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Operator Well No. Dallas Hall

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

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Nam	e:			_	Name: Dallas J. Hall & Agnes L. Hall Address: 1953 G C and P Road			Environmental Protection	
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08/03/2018

WW-6A4 (1/12) Operator Well No. Dallas Hall OHI 1H

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

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

Notice Time Date of Notic	Requirement: ce: 05/09/2018	Notice shall be provided : Date Pe	at least TEN (10) days prior to filing a rmit Application Filed:	RECEIVED	
Delivery met	thod pursuant	to West Virginia Code §	22-6A-16(b)	once of Oil and Gas	
DELIVE	ERY	CERTIFIED MAIL RETURN RECEIPT RE	QUESTED ays prior to filing a permit application,	MAY 21 2018 WV Department of	
drilling a hor of this subsec- subsection mand and if availab	izontal well: P tion as of the d ay be waived in le, facsimile nu	Provided, That notice given ate the notice was provide writing by the surface ow	n pursuant to subsection (a), section to d to the surface owner: <i>Provided how</i> oner. The notice, if required, shall included address of the operator and the operator	ne surface owner's land for the purpose lection of this article satisfies the requirements vever, That the notice requirements of this add the name, address, telephone number,	
Name: Agnes H			Name:		
Address: 1953	G C and P Rd		Address:		
Triadelphia, WV	26059				
			orizontal well on the tract of land as fo UTM NAD 83 Easting: Northing: Public Road Access:	well operator has an intent to enter upon llows: 532,973.70 4,442,633.70 G C and P Read	
Quadrangle:	Bethany		Generally used farm name:	Dallas Hall OHI	
Watershed:	Upper Ohio South	1			
Pursuant to 'facsimile nur related to hor	nber and electrizontal drilling	Code § 22-6A-16(b), this conic mail address of the may be obtained from the	operator and the operator's authorize e Secretary, at the WV Department o	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.	
	reby given by		Authorized Representative:	Randy Orsburn	
Address:		179 Innovation Drive	Address:	PO Box 1300, 179 Innovation Drive	
	Jane Lew, WV			Jane Lew, WV 26378	
Геlephone:	304-439-1532		Telephone:	304-439-1532	
Email:	Randy Orsbur	m@swn.com	Email:	Randy_Orsburn@swn.com	
acsimile:	304-884-1691		Facsimile:	304-884-1691	
				-	

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 deprivacvofficer@wv.gov.

WW-6A5 (1/12) Operator Well No. Dallas Hall OH 1H

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

Notice Time Date of Notic	Requirement: notice shall be provided ce: 05/09/2018 Date Permit	no later than the filing Application Filed:	date of permit	application.	
Delivery met	hod pursuant to West Virginia Code	§ 22-6A-16(c)			
	FIED MAIL RN RECEIPT REQUESTED	HAND DELIVERY			
return receipt the planned of required to be drilling of a I damages to the	requested or hand delivery, give the sur- operation. The notice required by this a provided by subsection (b), section ten- norizontal well; and (3) A proposed su- te surface affected by oil and gas operation	face owner whose land subsection shall include of this article to a surfa- rface use and compens ons to the extent the da	will be used for de: (1) A copy acc owner whos ation agreement mages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see 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	
Notice is here	eby provided to the SURFACE OWN s listed in the records of the sheriff at the	ER(s) e time of notice): Name: _ Address		RECEIVED Office of Oil and Gas Office of Oil and Gas	
Triadelphia, WV 2	6059	e is hereby given that the	ne undersigned	WV Department of Environmental Protection well operator has developed a Hearman of act of land as follows:	
State:	West Virginia	— UTM NAD 8		532,973.70	
County:	Ohio	UIMINAD	Northing:	4,442,633.70	
District:	Liberty	Public Road .		G C and P Road	
Quadrangle:	Bethany	Generally use	ed farm name:	Dallas Hall OHI	
Watershed:	Upper Ohio South				
Pursuant to V to be provide horizontal we surface affect information r	ed by W. Va. Code § 22-6A-10(b) to a ell; and (3) A proposed surface use and ted by oil and gas operations to the extended to horizontal drilling may be ob- located at 601 57th Street, SE, Characteristics	a surface owner whose compensation agreeme tent the damages are co trained from the Secret	e land will be not containing an ompensable und arry, 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 www.dep.wv.gov/oil-and-department	
Well Operato	F: SWN Production Company, LLC	Address:	PO Box 1300, 179	Innovalion Drive	
Telephone:	304-439-1532		Jane Lew, WV 263		
Email:	Randy Orsburn@swn.com	Facsimile:			
Oil and Gas	Privacy Notice:	aformation such as name	ne address and	telephone number, as part of our regulatory	

duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Jim Justice Governor

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

December 20, 2017

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

RECEIVED Office of Oil and Gas

MAY 21 2018

WV Department of Environmental Protection

Subject: DOH Permit for the Dallas Hall Pad OHI 1H Well Site, Ohio County

Dear Mr. Martin,

The West Virginia Division of Highways has transferred #06-2011-0067 to the application for permit to Southwestern Energy for access to the State Road for the well site located off of Ohio County Route 37 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,

Day K. Clayton

Gary K. Clayton

Regional Maintenance Engineer

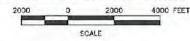
Central Office Oil &Gas Coordinator

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

E.E.O./AFFIRMATIVE ACTION EMPLOYER

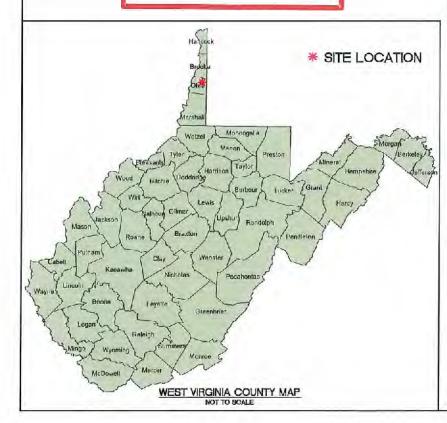
		47069	OBBO			
FRAC ADDITIVES						
Product Name	Product Use	Chemical Name	CAS Number 77228411 64-1973 79-21-0			
		Hydrogen Peroxide	772268421			
EC6734A (Champion Technologies)	Biocide	Acetic Acid	64-19%			
		Peroxyacetic Acid	79-21-0 67-56-1 Proprietary			
······································		Methanol	67-56-1			
FRON T-390 (Champion Technologies)	Scale Inhibitor	Nonylphenol Ethoxylate	Proprietary			
		Glutaraldehyde	111-30-8			
		Quaternary Ammonium Compounds, Benzyl-C12-	111-50-6			
tron K-139 (Champion Technologies)	Biocide	16-Alkyldimethyl, Chlorides	68424-85-1			
		Ethanol	64-17-5			
		Methanol	67-56-1			
ctron K-219 (Champion Technologies)	Biocide	Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	68424-85-1			
5004004	Cool - to bit to	Amine Triphosphate	Proprietary			
EC6486A (Nalco Champion)	Scale Inhibitor	Ethylene Glycol	107-21-1			
A/FDA 2000	Animala Painting De de	Hydrotreated light distillate (petroleum)	64742-47-8			
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Propenoic acid, polymer with propenamide	9003-06 9			
		Ethylene glycol	107-21 1			
		Cinnamaldehyde	104-55 2			
A1 202 //	Mixture	Butyl cellosolve	111-76 2			
AI-303 (U.S. Well Services)		Formic acid	64-18 6			
		Polyether	Proprietary			
i i		Acetophenone, thiourea, formaldehyde polymer	68527-49 1			
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0			
PTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8			
		Methanol	67-56-1			
		Oxyalkylated fatty acid	68951-67-7			
		Fatty acids	61790-12-3			
ono-Cl200 (SWN Well Services)	Corrosion Inhibitor	Modified thiourea polymer	68527-49-1			
,		Water	7732-18-5			
		Hydrochloric acid	7647-01-0			
		Potassium acetate	127-08-2			
		Formaldehyde				
		Formaldehyde	50-00-0			
conol FEAC (community	Iron Control	Acetic Acid	50-00-0 64-19-7			
copol-FEAC (swn Well Services)	Iron Control	Acetic Acid Citric Acid	50-00-0 64-19-7 77-92-9			
copol-FEAC (swn Well Services)	Iron Control	Acetic Acid Citric Acid Water	50-00-0 64-19-7 77-92-9 7732-18-5			
COPOI-FEAC (SWN Well Services) HCL (SWN Well Services)	Iron Control Hydrocholic Acid	Acetic Acid Citric Acid Water Hydrochloric Acid	50-00-0 64-19-7 77-92-9 7732-18-5 7647-01-0			
HCL (SWN Well Services)	Hydrocholic Acid	Acetic Acid Citric Acid Water Hydrochloric Acid Water	50-00-0 64-19-7 77-92-9 7732-18-5 7647-01-0 7732-18-5			
HCL (SWN Well Services)		Acetic Acid Citric Acid Water Hydrochloric Acid Water Proprietary	50-00-0 64-19-7 77-92-9 7732-18-5 7647-01-0 7732-18-5 Proprietary			
HCL (SWN Well Services)	Hydrocholic Acid	Acetic Acid Citric Acid Water Hydrochloric Acid Water Proprietary Distillates (petroleum) hydrotreated light	50-00-0 64-19-7 77-92-9 7732-18-5 7647-01-0 7732-18-5 Proprietary 64674-47-8			
HCL (SWN Well Services) DJET DRP 1130X (SWN Well Services)	Hydrocholic Acid Friction Reducer	Acetic Acid Citric Acid Water Hydrochloric Acid Water Proprietary Distillates (petroleum) hydrotreated light Ethylene Glycol	50-00-0 64-19-7 77-92-9 7732-18-5 7647-01-0 7732-18-5 Proprietary 64674-47-8 107-21-1			
HCL (SWN Well Services) JET DRP 1130X (SWN Well Services)	Hydrocholic Acid	Acetic Acid Citric Acid Water Hydrochloric Acid Water Proprietary Distillates (petroleum) hydrotreated light Ethylene Glycol Alcohols, C12-16, Exoxylated propoxylated	50-00-0 64-19-7 77-92-9 7732-18-5 7647-01-0 7732-18-5 Proprietary 64674-47-8 107-21-1 68213-24-1			
HCL (SWN Well Services) JET DRP 1130X (SWN Well Services)	Hydrocholic Acid Friction Reducer	Acetic Acid Citric Acid Water Hydrochloric Acid Water Proprietary Distillates (petroleum) hydrotreated light Ethylene Glycol	50-00-0 64-19-7 77-92-9 7732-18-5 7647-01-0 7732-18-5 Proprietary 64674-47-8 107-21-1			
HCL (SWN Well Services) JET DRP 1130X (SWN Well Services) JET DR900 LPP (SWN Well Services)	Hydrocholic Acid Friction Reducer Friction Reducer	Acetic Acid Citric Acid Water Hydrochloric Acid Water Proprietary Distillates (petroleum) hydrotreated light Ethylene Glycol Alcohols, C12-16, Exoxylated propoxylated Fatty Alcohols ethoxylated	50-00-0 64-19-7 77-92-9 7732-18-5 7647-01-0 7732-18-5 Proprietary 64674-47-8 107-21-1 68213-24-1 Proprietary			
HCL (SWN Well Services) JET DRP 1130X (SWN Well Services)	Hydrocholic Acid Friction Reducer	Acetic Acid Citric Acid Water Hydrochloric Acid Water Proprietary Distillates (petroleum) hydrotreated light Ethylene Glycol Alcohols, C12-16, Exoxylated propoxylated Fatty Alcohols ethoxylated Water	50-00-0 64-19-7 77-92-9 7732-18-5 7647-01-0 7732-18-5 Proprietary 64674-47-8 107-21-1 68213-24-1 Proprietary 7732-18-5			
HCL (SWN Well Services) DET DRP 1130X (SWN Well Services) DIET DR900 LPP (SWN Well Services)	Hydrocholic Acid Friction Reducer Friction Reducer	Acetic Acid Citric Acid Water Hydrochloric Acid Water Proprietary Distillates (petroleum) hydrotreated light Ethylene Glycol Alcohols, C12-16, Exoxylated propoxylated Fatty Alcohols ethoxylated Water Hydrotreated light petroleum distillate	50-00-0 64-19-7 77-92-9 7732-18-5 7647-01-0 7732-18-5 Proprietary 64674-47-8 107-21-1 68213-24-1 Proprietary 7732-18-5 64742-47-8			
HCL (SWN Well Services) DJET DRP 1130X (SWN Well Services) DJET DR900 LPP (SWN Well Services) FR-76 (Halliburton) HAI-150E (Halliburton)	Hydrocholic Acid Friction Reducer Friction Reducer Friction Reducer Corrosion Inhibitor	Acetic Acid Citric Acid Water Hydrochloric Acid Water Proprietary Distillates (petroleum) hydrotreated light Ethylene Glycol Alcohols, C12-16, Exoxylated propoxylated Fatty Alcohols ethoxylated Water Hydrotreated light petroleum distillate Inorganic Salt	50-00-0 64-19-7 77-92-9 7732-18-5 7647-01-0 7732-18-5 Proprietary 64674-47-8 107-21-1 68213-24-1 Proprietary 7732-18-5 64742-47-8 Proprietary			
HCL (SWN Well Services) DJET DRP 1130X (SWN Well Services) DJET DR900 LPP (SWN Well Services) FR-76 (Halliburton)	Hydrocholic Acid Friction Reducer Friction Reducer Friction Reducer	Acetic Acid Citric Acid Water Hydrochloric Acid Water Proprietary Distillates (petroleum) hydrotreated light Ethylene Glycol Alcohols, C12-16, Exoxylated propoxylated Fatty Alcohols ethoxylated Water Hydrotreated light petroleum distillate Inorganic Salt No hazardous substance	50-00-0 64-19-7 77-92-9 7732-18-5 7647-01-0 7732-18-5 Proprietary 64674-47-8 107-21-1 68213-24-1 Proprietary 7732-18-5 64742-47-8 Proprietary N/A			
OJET DRP 1130X (SWN Well Services) OJET DR900 LPP (SWN Well Services) FR-76 (Halliburton) HAI-150E (Halliburton)	Hydrocholic Acid Friction Reducer Friction Reducer Friction Reducer Corrosion Inhibitor	Acetic Acid Citric Acid Water Hydrochloric Acid Water Proprietary Distillates (petroleum) hydrotreated light Ethylene Glycol Alcohols, C12-16, Exoxylated propoxylated Fatty Alcohols ethoxylated Water Hydrotreated light petroleum distillate Inorganic Salt No hazardous substance Polyacylate	50-00-0 64-19-7 77-92-9 7732-18-5 7647-01-0 7732-18-5 Proprietary 64674-47-8 107-21-1 68213-24-1 Proprietary 7732-18-5 64742-47-8 Proprietary N/A Proprietary 64742-47-8 Proprietary			
HCL (SWN Well Services) DJET DRP 1130X (SWN Well Services) DJET DR900 LPP (SWN Well Services) FR-76 (Halliburton) HAI-150E (Halliburton) FDP-S1176-15 (Halliburton)	Hydrocholic Acid Friction Reducer Friction Reducer Friction Reducer Corrosion Inhibitor Friction Reducer	Acetic Acid Citric Acid Water Hydrochloric Acid Water Proprietary Distillates (petroleum) hydrotreated light Ethylene Glycol Alcohols, C12-16, Exoxylated propoxylated Fatty Alcohols ethoxylated Water Hydrotreated light petroleum distillate Inorganic Salt No hazardous substance Polyacylate Hydrotreated light petroleum distillate Organic phosphonate	50-00-0 64-19-7 77-92-9 7732-18-5 7647-01-0 7732-18-5 Proprietary 64674-47-8 107-21-1 68213-24-1 Proprietary 7732-18-5 64742-47-8 Proprietary N/A Proprietary 64742-47-8			

USGS 7.5 BETHANY/VALLEY GROVE QUAD MAPS



WVDEP OOG ACCEPTED AS-BUILT

2 / 21 / 2018



DALLAS HALL OHI WELL PAD

CONSTRUCTION AS-BUILT & RECLAMATION PLAN

LIBERTY DISTRICT, OHIO COUNTY, WV OCTOBER 2017

LOCATION COORDINATES: ACCESS ROAD ENTRANCE

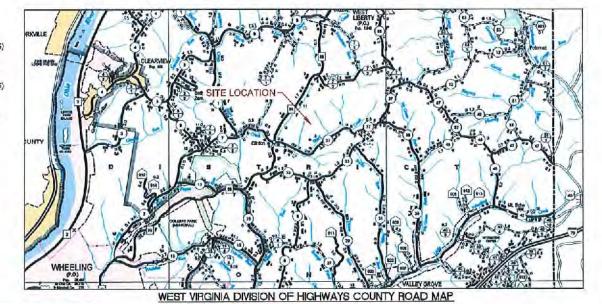
LATTIUDE: 40.120841 LONGITUDE: -80.615332 (NAD-83) N 14570969.65 F 1747953.31 (UTM ZONE 1/ METERS)

LATITUDE: 40,133400 LONGITUDE: -80,612897 (NAD-83) (UTM ZONE 17 METERS) N 14575545.96 E 1748614.12

THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATING TO THE FINAL GRADING OF THE DISTURBED AREA AS OF AUGUST 4, 2017. LARSON DESIGN GROUP IS NOT RESPONSIBLE FOR ANY CHANGES MADE TO THE SITE AFTER THE ABOVE MENTIONED DATE.

PROPERTY INFORMATION SHOWN HEREON WAS PROVIDED BY SOUTHWESTERN ENERGY AND MAY NOT REFLECT CURRENT BOUNDARY LOCATION.

TOTAL DISTURBED AREA: 22.60 ACRES
ROAD DISTURBED AREA: 14.06 ACRES
PAD DISTURBED AREA: 8.54 ACRES



WELL NAMES	WV NORTH NAD 27	WV NORTH NAD 83	UIM (METERS) ZONE 17	NAD 83 LAT 8 LONG	ELEVATION (FEET)		
		AS-DRILLED COORDINATES					
DALLAS HALL 6H	N 596797.18	N 590834.10	N 4442622.04	LAT 40,133286°	1276,47		
(ORULLED) API# 47-069-00075	E 1888759.01	E 1657324.79	E 532977.51	LONG -80,012911°			
DALLAS FALL 8H	N 596784.13	N 596821.05	N 4442618,63	LAT 40.133250°	1276,71		
(ORILLED) API# 47-069-00076	E 1688754.42	E 1657319,80	E 532976,00	LONG -80,812929°			

SHEET INDEX

1	COVER SHEET
2-3	EVACUATION ROUTE/PREVAILING WINDS
4	AS-BUILT OVERALL PLAN SHEET INDEX
5-7	ACCESS ROAD AS-BUILT PLAN
В	WELL PAD AS-BUILT PLAN
9-10	ACCESS ROAD AS-BUILT PROFILE
11	WELL PAD AS-BUILT PROFILE
12	AS-BUILT RECLAMATION PLAN OVERALL PLAN SHEET INDEX
13-15	AS-BUILT ACCESS ROAD RECLAMATION PLAN
16	AS-BUILT WELL PAD RECLAMATION PLAN
17	GENERAL NOTES AND DETAILS
18-19	DETAILS

ENGINEERING ESTIMATE OF QUANTITIES WELL SITE PAD DATA (DRILLING) NSTALL MOUNTABLE BERM RAISE EXISTING CONTAINMENT BERM TO MIN. 2' HEIGHT SEED & MULCH DISTURBED 220 SY 18 COMPOST SOCK LF 342 STONE FOR PAD SURFACE REPAIR AND MOUNTABLE BERM STONE SURFACING (RECLAM EA BREACH BERM 10' WIDE RIP-RAP CY ISCHARGE CHANNELS



MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!



RIGINAL SHEET SIZE: ANSI FULL BLEED D 22.00 X 34.00 INCHES

1 of 19 7688-016-011

Larson Design Group

AS-BUILT CERTIFICATION

THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERFTO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CSR 35-8,

