

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

Thursday, June 7, 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 3H 47-069-00271-00-00

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 3H

Farm Name: HALL AGNES L U.S. WELL NUMBER: 47-069-00271-00-00

Horizontal 6A New Drill Date Issued: 6/7/2018

API Number:	
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PERMIT CONDITIONS 470690027

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

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply 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 4706900271

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

WW-6B (04/15)

API NO. 47- 069		
OPERATOR WELL	NO.	Dažas Hall OHI 3H
Well Pad Name:	Dallas	Hall OHI Pad

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

1) Well Opera	tor: SWN	Production (Co., LLC	494512924	069-Ohio	3-Liberty	247-Bethany
				Operator ID	County	District	Quadrangle
2) Operator's	Well Numbe	r: Dallas Ha	II OHI 3H	Well F	ad Name: Dall	as Hall OHI	Pad
3) Farm Name	/Surface Ow	vner: Agnes	L. Hall	Public R	oad Access: G	C & P Road	<u> </u>
4) Elevation, c	urrent grour	nd: 1275'	EI	levation, propose	d post-construc	tion: 1275'	
5) Well Type	(a) Gas	X	_ Oil		derground Stor		
	Other						
	(b)If Gas	Shallow	X	Dеер			
		Horizontal	<u> </u>		16 -	al)	
6) Existing Pac		-			_ (]		12.20.17
7) Proposed Ta Target Format	arget Formation-Marcellus,	tion(s), Depth Target Top TVD	(s), Antic	ipated Thickness get Base TVD-6136	and Expected Anticipated Thickn	Pressure(s): ess- 33', Associ	ated Pressure- 3966.95
8) Proposed To	otal Vertical	Depth: 612	5'				
9) Formation a	it Total Verti	ical Depth:	Marcellus	5			
0) Proposed 1	Total Measur	red Depth:	15,110'				
1) Proposed F	Horizontal L	eg Length:	8634.07		-		
2) Approxima	ate Fresh Wa	ater Strata De	pths:	410'			
13) Method to	Determine F	resh Water D	Depths: V	water well			
l4) Approxima	ate Saltwater	Depths: 60	1' SWN s	alinity profile			
(5) Approxima	ate Coal Sea	m Depths: 4	46'			***************************************	
6) Approxima	ate Depth to	Possible Void	d (coal mi	ine, karst, other):	Possible Void	1 446'.	
(7) Does Prope lirectly overly	osed well loo ing or adjace	cation contain ent to an activ	coal sear	ns Yes	N	o x	
(a) If Yes, pro							
, ,, p.		Depth:					
		Seam:				·····	
		Scall.					
		Owner					

Page 1 of 3



WW-6B (04/15)

API NO. 47- 069

OPERATOR WELL NO. Dallas Hall OHI 3H
Well Pad Name: Dallas Hall OHI Pad

18)

CASING AND TUBING PROGRAM

ТҮРЕ	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	9 5/8"	New	J-55	36#	1920'	1920'	732 sx/CTS
Intermediate	7"	New	J-55	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	15110'	15110'	lead 7d5sx Tail 2146sx inside intermedial
Tubing	2 3/8"	New	HCP-110	4.7#	Approx. 6125'	Approx. 6125'	
Liners							

C. SSO 12.19:17

ТУРЕ	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	2 3/8"	4.778"	0.190			0.0007,	
Liners							

PACKERS

10K Arrowset AS-1X	
5 1/2"	

Office of Oil and Gas

JAN 3 0 2018

WV Department of Page 2 of 3

06/08/2018

4706900271

WW-6B (10/14)

API NO. 47- 069 OPERATOR WELL NO. Dallas Hall OHI 3H 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 75' 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 @ 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:

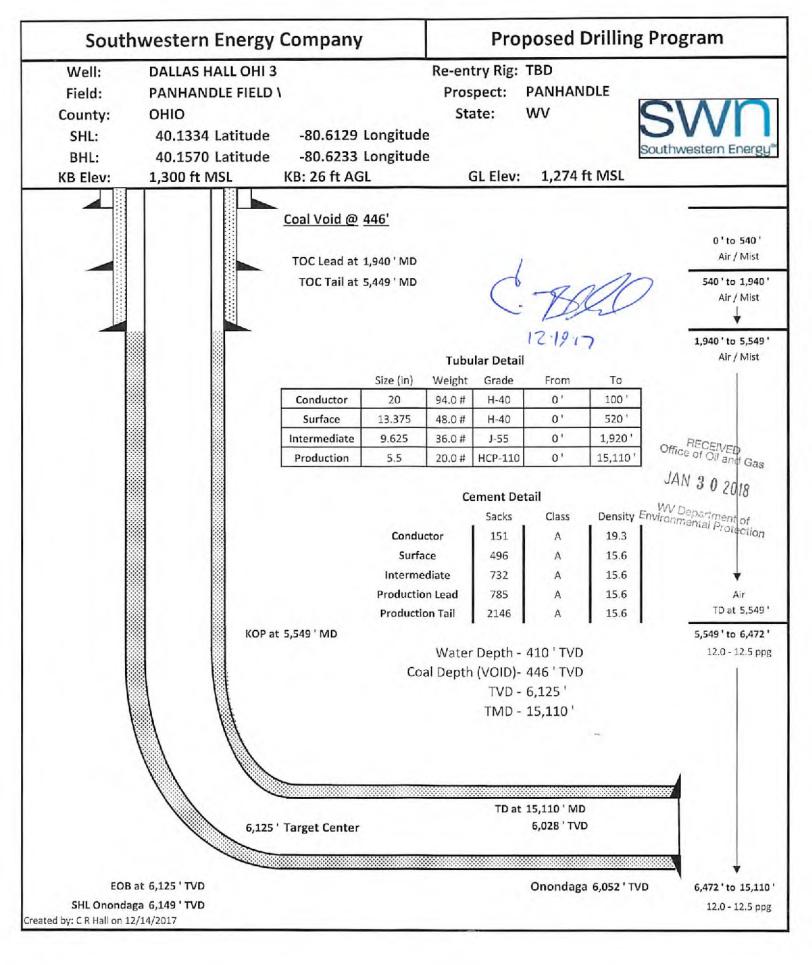
All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms of one Gas JAN 3 0 2018

WV Department of Environmental Protection

*Note: Attach additional sheets as needed.

Schlumberger Cement Additives

	Product Name	Product Use	Chemical Name	CAS Numbe
Surface	S001	accelerator	calcium chloride up to 3%	10043-52-4
Intermediate Surface	5001	accelerator	calcium chloride	10043-52-4
-	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
ō "	D801	retarder	aromatic polymer derivative	propriatary
Kick Off Plug	D047	antifoam	polypropylene glycol	25322-69-4
	D167	fluid loss	aliphatic amide polymer	propriatary
	D154	extender	non-crystalline silica	7631-86-9
	D400	gas migration	boric acid	10043-35-3
			polypropylene glycol	25322-69-4
per	D046	antifoam	fullers earth (attapulgite)	8031-18-3
Production-Lead			chrystalline silica	14808-60-7
윮	D201	retarder	metal oxide	propriatary
큣			sulphonated synthetic polymer	propriatary
P	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
=	Laborator Control		sodium polynaphthalene sulfonate	9008-63-3
7	D065	dispersant	sodium sulfate	7757-82-6
Production-Tall			chrystalline silica	14808-60-7
npo	D201	retarder	metal oxide	propriatary
4	D153	anti-settling	chrystalline silica	14808-60-7







SWN Production Company, LLC 179 Innovation Drive Jane Lew, WV 26378 Tel: 304 884 1610 Fax: 304 471 2497 www.swn.com

December 14, 2017

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

RE: Proposed New Well Dallas Hall OHI 3H

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.

Sincerely,

Dee Southall

Senior Regulatory Analyst

Southwestern Energy Production Company, LLC

Office of Oil and Gas

JAN 3 0 2018

WV Department of Environmental Protection



The Right People come the Right Thires wisely investing of USP and on Or underlying Assets, will create Velue+8 WW-9 (4/16)

API Number 47 - 69

Operator's Well No. Dallas Hall OHI 3H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC OP Code 494512924
Watershed (HUC 10) Upper Ohio South Quadrangle Bethany
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No
If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes No V If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application
Underground Injection (UIC Permit Number 34-186-22403, 34-059-24067, 34-19-28776, 34-167-23862, 34-155-23795, 34-121-23995, 34-155-21893) ■ 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. Air drill 10 KOP, fluid drill with \$09M from KOP to TD
-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
-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-1034, Carbon Limestone MSWL018781, Wetzel County 1021 Arden Landfill 100/2, Apex Sanitary Landfill 0b-08438, Brooke Co SWF-1013, Valley 100280
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. RECEIVED Office of Oil and Gas
Company Official (Typed Name) Dee Southall
Company Official Title Senior Regulatory Analyst Wy Department of Projection
Environmental Protection
Subscribed and sworn before me this 22nd day of Camula day
A TALL SEAL
Notary Public Notary Public State of West Virginia BRITTANY R WOODY
My commission expires 11 77 Buckha 06/08/2018

Operator's Well No. Dallas Hall OHI 3H

Proposed Revegetation Treatment: Acres Distur	rbed 22.60	Prevegetation p	·
Lime as determined by pH test min. 2 Tons/acre or t	to correct to pH 8.54		
Fertilizer type 10-20-20			
Fertilizer amount 600	Ibs/acre		
Mulch_ Hay/Straw 2.5	Tons/acre		
	Seed Mixtures		
Temporary		Perma	nent
Seed Type lbs/acre Attachment 3B		Seed Type	lbs/acre
rawing(s) of road, location, pit and proposed a ovided) notocopied section of involved 7.5' topographic	c sheet.		
Orawing(s) of road, location, pit and proposed a rovided) Photocopied section of involved 7.5' topographic than Approved by:	c sheet.		
prawing(s) of road, location, pit and proposed a rovided) hotocopied section of involved 7.5' topographic lan Approved by:	c sheet.		
Orawing(s) of road, location, pit and proposed a rovided) Photocopied section of involved 7.5' topographic than Approved by:	c sheet.		RECEIVI Office of Oil a
Orawing(s) of road, location, pit and proposed a provided) Photocopied section of involved 7.5' topographic plan Approved by:	c sheet.		Office of Oil S
Attach: Drawing(s) of road, location, pit and proposed a provided) Photocopied section of involved 7.5' topographic lan Approved by: Comments:	c sheet.		RECEIVI Office of Oil a
Orawing(s) of road, location, pit and proposed a provided) Photocopied section of involved 7.5' topographic plan Approved by:	c sheet.		Office of Oil S

Drilling Mediums

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

Friction Reducers

RECEIVED Office of Oil and Gas

JAN 3 0 2018

WV Department of Environmental Protection



WVD Seeding Specification



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

NON-ORGANIC PROPERTIES		
Seed Mixture: ROW Mix	SWN	I 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

Apply @ 100lbs per acre
April 16th- Oct. 14th
Solbs per acre of Winter Wheat

5%

SOIL AMENDMENTS

Rough Bluegrass

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

(please allow 7 to 10 days for delivery)

NAC

WETLANDS (delineated as jurisdictional wetlands)

Seed Mixture: Wetland Mix	SWN Supplied
VA Wild Ryegrass	20%
Annual Ryegrass	20%
Fowl Bluegrass	20%
Cosmos 'Sensation'	10%
Redtop	5%
Golden Tickseed	5%
Maryland Senna	5%
Showy Tickseed	5%
Fox Sedge	2.5%
Soft Rush	2.5%
Woolgrass	2.5%
Swamp Verbena	2.5%
Apply @ 25lbs per acre	Apply @ 50lbs per acre

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

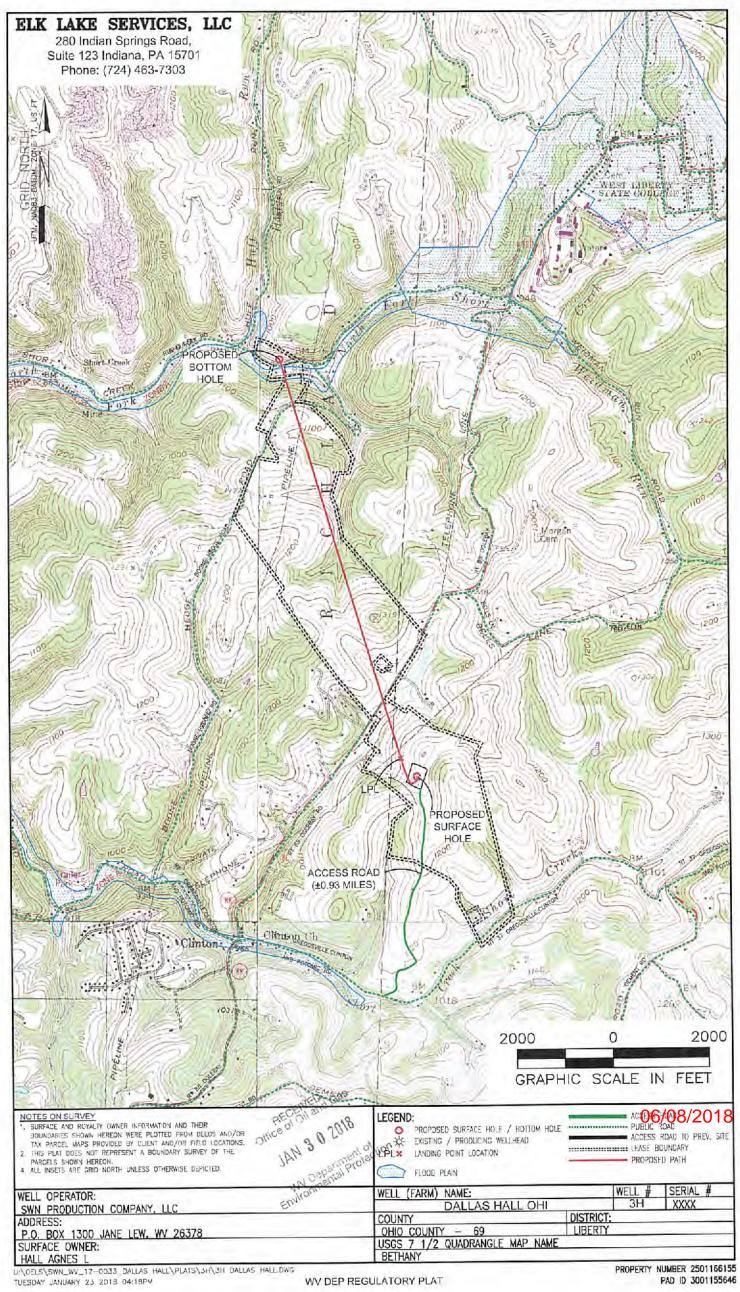


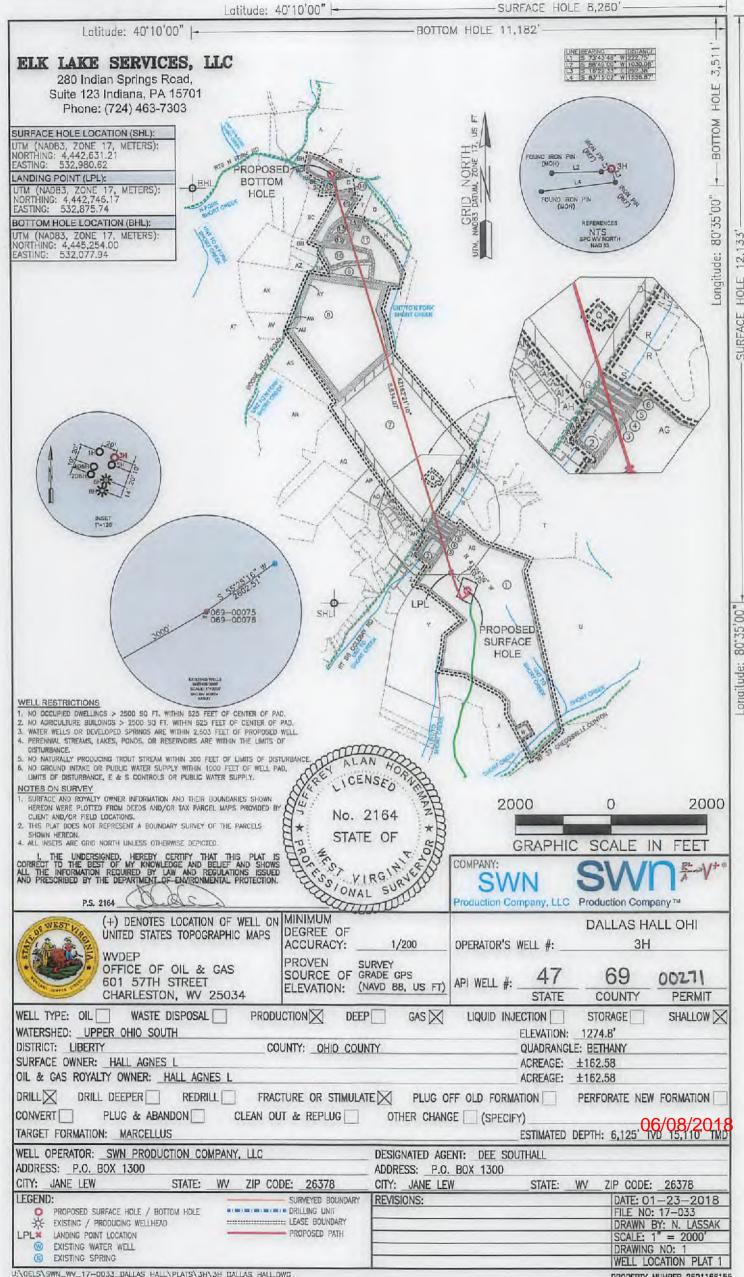
SWN Production Company, LLC 179 Innovation Drive Jane Lew, West Virginia 26378

API NO. 47-XXX-XXXXX
WELL NAME: Dallas Hall OHI 3H
Bethany QUAD
Liberty DISTRICT
Ohio COUNTY, WEST VIRGINIA

91110 000	,	AAFO! AIIIOII	117.3
Submitted by: Dee Southall Senior Regulatory Title: Analyst) Date: SWN P		
Approved by: Title: Dilt Go Zupertor	Date:	12.19.17	
Approved by:	Date:		RECEIVED Office of Oil and Gas JAN 3 0 2018
Title:			WV Department of Environmental Protection

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL





ELK LAKE SERVICES, LLC

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

TRACT	WELL BORE TABLE FOR SURFACE / ROYALTY SURFACE OWNER / ROYALTY OWNER	TAX PARCEL	ACRES
1	AGNES L HALL	3-L7-0019	162.58
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	MATTHEW H GOSSETT	4-R12B-1	2.428
3	GEORGE STROMATOS	3-L4-24	1.089
4	GEORGE STROMATOS	3-L4-24-1	0.979
5	GEORGE STROMATOS	4-L4-24-2	0.976
6	DAVID & LINDA RUTHERS	3-L4-22	0.974
7	TRUST FOR LILLIAN W BROWN	3-L4-1-1	123.28
8	CLAIRE M CAVENEY	4-R9-3	93.393
9	MARK & DAWN SWIGER	4-R9-22-15	6.09
10	GEORGE & CAROL WOOD	4-R9-22-16	7.99
11	JOHN C & KATHY J RATCLIFFE	4-R9-22-20	16.70
12	JOHN C & KATHY J RATCLIFFE	4-R9-22-17	2.22
13	JEFFREY C & GINGER K TAYLOR	4-R9-22-18	2.67
14	JEFFREY C & GINGER K TAYLOR	4-R9-20	1.54
15	RODNEY & RHONDA HALEY	4-R9-22-8	9.15
16	JOSHUA M KLAPKA	4-R9-19	0.965
17	BRANDON C & CYNTHIA A GALLOWAY	4-R6-39-1	1.461
18	LESLIE A HUNT	4-R6-29	5.166

TRACT	ADJOINING OWNERS TABLE SURFACE OWNER	TAX PARCEL	ACRES
A	WINDELL H II & GLADYS GOFF	4-R6-24-3	A-1-2-1-2-1
	NICOLE L CARENBAUER	4-R6-28-6	8.911
В			description of
C	RALPH & GRACE ROBINSON	4-R6-27	3.9166
D	ROBERT & JENNIFER JEWELL	4-R6-40	2.884
E	VELMA L TAGGART	4-R9-18	0.56
F	LARRY & TERRY BOYNES	4-R9-22-9	5.21
G	CARLA DIETRICH	4-R9-21-1	4.94
H	JOHN C RATCLIFFE	4-R9-22-21	6.35
1	PAUL & DEBORAH MCKAY	4-R9-51	12.325
J	PAUL & DEBORAH MCKAY	3-14-1	159.14
K	REBECCA L BLAKE	3-L4-1-7	0.50
_		3-L4-10-1	
L	11100 00 000001011 11101011		3.157
M	PAUL & DEBORAH MCKAY 3-L4-10		0.86
N	JAMES & ANN ROSE 3-L4-12		1.0005
0	JAMES & ANN ROSE		0.428
P	DAVID & BETH WEAVER	3-L4-13	14.044
Q	ROBERT E BROWN	3-L4-1-3	1.0
R	DAVID & BETH WEAVER	3-L4-15	35.74
S	YE M HLA (AKA DANIEL HLA) & EI E MYINT	3-L4-20	2.0
T	DAVID & CATHERINE EVANS	3-L4-13-1	27.54
U	MARY HELEN CLISER	3-L7-2	130.7
V	LINDA WHITAKER, TRUSTEE FOR THE	3-L7-27	192.6
	WHITAKER FAMILY TRUST		
W	AGNES L HALL	3-L7-1	0.529
X	AGNES L HALL	3-L7-20	35.51
Y	AGNES L HALL	3-L7-21-1	56.52
			4.28
Z	JOHN & T A PYLE	4-R12B-1-1	
AA	STEVE KELLAS	4-R12B-1-5	1.064
AB	MARK A KOZUSNIK	4-R12B-1-B	0.443
AC	DAVID & ESTELLA TAYLOR	4-R12B-4	0.36
AD	DAVID & ESTELLA TAYLOR	4-R12B-1-7	0.348
AE	PATRICIA MERCER	4-R12B-3	0.348
AF	LARRY & JANE BECK	4-R12B-7	0.347
AG	ERIC BLEND	4-R12B-2	0.334
AH			_
	JAMES & KAREN FRIO	4-R9-47	1.337
Al	STEPHANIE A WARREN & WILLIAM S LITMAN	4-R9-46	0.63
AJ	DAVID & TERRI SONNEFELD	4-R9-45	0.60
AK	DAVID & TERRI SONNEFELD	4-R9-44	0.60
AL	TYLER P BECK	4-R9-43	0.62
AM	MARK E & JL PISSOS	4-R9-42	0.61
AN	GARY & CM LATOS	4-R9-41	0.57
AO	CLARK & SHARON PAJAK	4-R9-32-1	2.08
AP	CLARK & SHARON PAJAK	4-R9-28	5.00
AQ	RCK 2 GROUP LLC KAYLEEN FITZSIMMONS		
AR		4-R9-27	28.8
1417	STACEY D EVANS	4-R9-3-5	68.5
AS	WESBANCO TRUST & INVESTMENT SERVICE, TRUSTEE OF THE MARY JACQUELINE CARENBAUER TRUST	4-R9-16-1	14.7
AT	JORDAN & GAYLE WEBER	4-R9-9	43.9
	And the state of t		
AU	CLAIRE M CAVENEY	4-R9-10-2	0.30
AV	DAVID & LM MAIN	4-R9-10	8.5
AW	DAVID B & LISA M MAIN	4-R9-3-6	0.23
AX	DAVID & LM MAIN	4-R9-10-1	29.0
AY	CLAIRE CAVENEY	4-R9-10-3	0.53
AZ	CHARLES & PHYLLIS KELLAM	4-R9-22-13	2.48
BA	MARK & DAWN SWIGER	4-R9-22-14	2.37
BB	CHARLES & PHYLISS KELLAM	4-R9-22-11	3.27
BC	JAMES & KATHY WEST	4-R9-22-7	10.8
BD		4-R6-39-2	1.29
	BRANDON & CYNTHIA GALLOWAY		
BE	EDWARD SMITH	4-R6-39-4	0.93
BF	ROBERT OCHSENBEIN	4-R6-39-3	0.55
BG	JUSTINE D CRUPE	4-R6-38	0.9
BH	RANDALL LEE CRABTREE	4-R5-24	2.89

06/08/2018

REVISIONS:	COMPART.	SWN Production Company, LLC	SV\ Production C	ompany ™
	OPERATOR'S WELL #:	DALLAS HALL 3H		DATE: 01-23-2018 FILE NO: 17-033 DRAWN BY: N. LASSAK
	DISTRICT: LIBERTY	COUNTY: OHIO COUNTY	STATE: WV	SCALE: N/A DRAWING NO: 1 WELL LOCATION PLAT 1

WW-6A1 (5/13) Operator's Well No. Dallas Hall OHI 3H

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
Se	ee Exhibit			

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

By: Its:

- 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.

andman

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JHIN	U	U	Cuit

Environmenta Procession

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Page 1 of

WV Department of Environment of

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator Dallas Hall OHI 3H

Ohio County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG
1)	3-L7-19	Dallas J. Hall and Agnes L. Hall, husband and wife	Chesapeake Appalachia, L.L.C.	18.50%	811/34
			SWN Production Company, LLC		884/61
2)	4-R12B-1	Matthew Harry Gossett, a married man dealing in his sole and	Chesapeake Appalachia, L.L.C.	18.00%	811/261
		separate property	SWN Production Company, LLC		884/169
3)	3-L4-24	Anna Mae Miller, a widow	Chesapeake Appalachia, L.L.C.	18.00%	818/568
			SWN Production Company, LLC		885/632
4)	3-L4-24-1	Anna Mae Miller, a widow	Chesapeake Appalachia, L.L.C.	18.00%	818/568
			SWN Production Company, LLC		885/632
5)	3-L4-24-2	Anna Mae Miller, a widow	Chesapeake Appalachia, L.L.C.	18.00%	818/568
			SWN Production Company, LLC		885/632
6)	3-L4-22	David Glenn Ruthers and Linda F. Ruthers, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	815/718
			SWN Production Company, LLC		883/587
7)	3-L4-1-1	Rome H. Brown and Lillian W. Brown, his wife	Great Lakes Energy Partners, LLC	15.50%	768/508
			Chesapeake Appalachia, L.L.C.		808/434
			SWN Production Company, LLC		883/527
		Robert O. Rogers, married man dealing in his sole and separate	SWN Production Company, LLC	18.00%	902/502
		property			
		Wheeling Young Men's Christian Association	SWN Production Company, LLC	18.00%	926/299
		Ohio Valley Medical Center, Inc.; The Parks System Trust Fund of	SWN Production Company, LLC	18.00%	908/708
		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.			

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator Dalias Hall OHI 3H

Ohio County, West Virginia

8)	4-R9-3	Claire M. Caveney, married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	18.00%	826/773
			SWN Production Company, LLC		884/717
		Robert O. Rogers, married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	902/502
		Ohio Valley Medical Center, Inc.; The Parks 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.	SWN Production Company, LLC	18.00%	908/708
		Wheeling Young Men's Christian Association	SWN Production Company, LLC	18.00%	926/299
9)	4-R9-22-15	Mark J. Swiger and Dawn S. Swiger, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	817/395 884/529
10)	4-R9-22-16	Howard A. Walls III and Terry L. Walls, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	828/338 884/717
11)	4-R9-22-20	John C. Ratcliffe and Kathy J. Ratcliffe, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	814/650 884/205
12)	4-R9-22-17	John C. Ratcliffe and Kathy J. Ratcliffe, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.0%	814/662 884/205
13)	4-R9-22-18	Jeffrey C. Taylor and Ginger K. Taylor, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	815/124 884/373

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator Dallas Hall OHI 3H

Ohio County, West Virginia

14)	4-R9-20	Jeffrey C. Taylor and Ginger K. Taylor, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	815/158
			SWN Production Company, LLC		884/373
15)	4-R9-22-8	Rodney W. Haley and Rhonda L. Haley, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	812/254
			SWN Production Company, LLC		884/181
16)	4-R9-19	Kenneth R. Barnes a/k/a Kenneth Robert Barnes and Judith D. Barnes a/k/a Judith Darlene Barnes, husband and wife	Chesapeake Appalachia, L.L.C.	15.00%	827/671
			SWN Production Company, LLC		844/717
17)	4-R6-39-1	Daniel J. Strnad and Amanda A. Strnad, husband and wife	Chesapeake Appalachia, L.L.C.	18.0%	829/140
			SWN Production Company, LLC		884/717
18)	4-R6-29	Leslie A. Hunt, a widower	Chesapeake Appalachia, L.L.C.	12.50%	829/759
			SWN Production Company, LLC		884/729



SWN Production Company, LLC P O Box 12359 Spring, Texas 77391-2859 www.swn.com

January 24, 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 3H in Ohio County, West Virginia, Drilling under RT9 N 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 N 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

RE-AV

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

10000 Energy Drive Spring, TX 77389-4954

Office of Owend Gas

JAN 3 0 2018

WV Department of Environmental Protection WW-6AC (1/12)

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

Date of Notic	ce Certification: 12418	API No. 47-	069 -	
Date of from	to sermenam I for this		Well No. Dallas	Hall OHI 3H
			me: Dallas Ha	
Notice has I	neen given:			
		§ 22-6A, the Operator has provided the requi	ired parties wi	th the Notice Forms listed
	tract of land as follows:	, and of a more than be a free that a me requi	neo parme m	31 313 1 10 10 2 2 3 11 11 11 11 11
State:	West Virginia	Easting: 5	532980.62	
County:	069-Ohio	- LIMINALIX	1442631.21	
District:	Liberty		G C & P Road	
Quadrangle:	Bethany	Generally used farm name:	Dallas Hall	
Watershed:	Upper Ohio South			
information r of giving the requirements Virginia Code of this article	equired by subsections (b) and (c), so surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall the have been completed by the applicant		nirement was on of this article e surface own at the notice r	deemed satisfied as a result le six-a; or (iii) the notice ner; and Pursuant to West
	West Virginia Code § 22-6A, the Operator has properly served the require	perator has attached proof to this Notice Cer	tification	
that the Ope	rator has property served the require	d parties with the following.		OOG OFFICE USE
*PLEASE CHI	ECK ALL THAT APPLY			ONLY
			10077a	
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUS SEISMIC ACTIVITY WAS CONDUCTED		NOT REQUIRED
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or ☐ NO PLAT SURVEY WAS CON	IDITIONED	
	HEL OF BRIEF FORTBRIEF		NDUCTED	RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUS NOTICE OF ENTRY FOR PLAT SURVE WAS CONDUCTED or	SE	RECEIVED/ RECEIVED/ NOT REQUIRED
■ 3. NO		☐ NOTICE NOT REQUIRED BECAUS NOTICE OF ENTRY FOR PLAT SURVE	BE EY	□ RECEIVED/
		☐ NOTICE NOT REQUIRED BECAUS NOTICE OF ENTRY FOR PLAT SURVE WAS CONDUCTED OF ☐ WRITTEN WAIVER BY SURFACE	SE EY E OWNER	□ RECEIVED/
■ 4. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUS NOTICE OF ENTRY FOR PLAT SURVE WAS CONDUCTED OF ☐ WRITTEN WAIVER BY SURFACE	SE EY E OWNER	RECEIVED/ NOT REQUIRED

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 services. The return receipt card or other postal receipt for certified mailing.

JAN 3 0 2018

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.

By:

Well Operator: SWN Production Co., LLC

NOTARY SEALAL Notary Public, State of West Virginia BRITTANY R WOODY 3302 Gld Elkins Road Buckhannen, WV 26201 ommission expires November 27, 202

Dee Southall Senior Regulatory Analyst

Its: Telephone:

304-884-1614

Address:

P.O. Box 1300

304-884-1690

Jane Lew, WV 26378

Facsimile:

Email: Dee_Southall@swn.com

Subscribed and sworn before me this

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.

RECEIVED
Office of Oil and Gas

JAN 3 0 2018

WV Department of Environmental Protection

API NO. 47-069 - 00271
OPERATOR WELL NO. Dallas Hall OHI 3H
Well Pad Name: Dallas Hall OHI Pad

1/30

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

Notice Time Requirement: notice shall be p	provided no later than the filing date of permit application.
Date of Notice: Date Permit App Notice of:	olication Filed:
	TIFICATE OF APPROVAL FOR THE ISTRUCTION OF AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virgini	a Code § 22-6A-10(b)
PERSONAL REGISTERED SERVICE MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
registered mail or by any method of delivery the sediment control plan required by section seven the surface of the tract on which the well is or it oil and gas leasehold being developed by the predescribed in the erosion and sediment control properator or lessee, in the event the tract of land more coal seams; (4) The owners of record of the well work, if the surface tract is to be used for the impoundment or pit as described in section nine have a water well, spring or water supply source provide water for consumption by humans or deproposed well work activity is to take place. (c) subsection (b) of this section hold interests in the records of the sheriff required to be maintained provision of this article to the contrary, notice to Code R. § 35-8-5.7.a requires, in part, that the	impoundment or pit as required by this article shall deliver, by personal service or by at requires a receipt or signature confirmation, copies of the application, the erosion and not find the well plat to each of the following persons: (1) The owners of record of s proposed to be located; (2) The owners of record of the surface tract or tracts overlying the roposed well work, if the surface tract is to be used for roads or other land disturbance as clan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, on which the well proposed to be drilled is located [sic] is known to be underlain by one or the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed the placement, construction, enlargement, alteration, repair, removal or abandonment of any to of this article; (5) Any surface owner or water purveyor who is known to the applicant to be located within one thousand five hundred feet of the center of the well pad which is used to comestic animals; and (6) The operator of any natural gas storage field within which the (1) If more than three tenants in common or other co-owners of interests described in the lands, the applicant may serve the documents required upon the person described in the pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any of a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any ce and water testing as provided in section 15 of this rule.
☐ Application Notice ☐ WSSP Notice ☐	1E&S Plan Notice ☑ Well Plat Notice is hereby provided to:
SURFACE OWNER(s)	☐ COAL OWNER OR LESSEE
Name: Dallas J. Hall	Name: Alliance Resources, GP LLC. Attn: Evan Midler
Address: 1953 G C and P Road	Address: 2596 Baltle Run Road
Triadelphia, WV 26059	Triadelphia, WV 26059
Name:	COAL OPERATOR
Address:	Name:Address:
SURFACE OWNER(s) (Road and/or Other	r Disturbance)
Name:	/ <u></u>
Address:	
	Name: See Attachment
Name:	
Address:	
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or	
Name:	Address: RECEIVED Office of Oil and Gas
Address:	*Please attach additional forms if necessary
	APR 2 6 2018

WV Department of Environment of Envi

API NO. 47-069 OPERATOR WELL NO. Dallas Hall OHI 3H Well Pad Name: Dallas Hall OHI Pad

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

certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the crosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface tract or which the well is or is proposed to be located; (2) The owners of record of the surface tract and disturbance as described in the crosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section inne of this article; (5) Any surface owner or where pursor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to proposed well work activity is to take place, (e)(f) If more than three tenants in common or other consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place, (e)(f) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Noviviths and provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the l	Notice Time Requirement: notice shall be provide	led no later than the filing date of permit application.
WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL REGISTERED METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, opties of the application, the crossion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface trate or tracts overlying the surface that crust on which the well is or is proposed to be located; (2) the owners of record of or the surface tract is to be used for roads or other land disturbance as leaserhed in the crossion and seliment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract is to be used for road so wore, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section into eiths article; (5) Any surface owner or water purveyor who is known to the applicant to the average well work, activity is to take place, (c)(1) If more than three tenants in common or other co-owners of interests described in the roroposed well work, activity is to take place, (c)(1) If more than three tenants	the second secon	ion Filed: 172418
WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL REGISTERED METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, opties of the application, the crossion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface trate or tracts overlying the surface that crust on which the well is or is proposed to be located; (2) the owners of record of or the surface tract is to be used for roads or other land disturbance as leaserhed in the crossion and seliment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract is to be used for road so wore, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section into eiths article; (5) Any surface owner or water purveyor who is known to the applicant to the average well work, activity is to take place, (c)(1) If more than three tenants in common or other co-owners of interests described in the roroposed well work, activity is to take place, (c)(1) If more than three tenants	PERMIT FOR ANY D CERTIFIC	CATE OF APPROVAL FOR THE
Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL REGISTERED METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a restricted of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the crosson and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record o he surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface face it to the tract of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface ract is to be used for roads or other land disturbance as leasoribed in the crosion and sediment control plan submitted pursuant to subsection (6), section seven of this article; (3) The coal owner, portator or lesses, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or nore coal seams; (4) The owners of record of the surface tract to rtracts overlying the oil and gas leaschold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article, (5) Any surface owner or water purveyor who is known to the applicant to lave a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pat which is used to rovoide water for consumption by humans or dem		
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SURFACE OWNER(s) COAL OWNER OR LESSEE Name: Windsor Coal Company Address: 1000 Consol Energy Drive Canonsburg, PA 15317 COAL OPERATOR Name: Address: SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Address: Address: And/or WATER PURVEYOR(s) Name: Address: SURFACE OWNER(s) (Impoundments or Pits) Name: Address:	the surface of the tract on which the well is or is propoil and gas leasehold being developed by the proposed described in the erosion and sediment control plan surperator or lessee, in the event the tract of land on whomer coal seams; (4) The owners of record of the surface tract is to be used for the plantage water well, spring or water supply source local provide water well, spring or water supply source local provide water for consumption by humans or domest proposed well work activity is to take place. (c)(1) If subsection (b) of this section hold interests in the lantage of the sheriff required to be maintained pursupprovision of this article to the contrary, notice to a lief Code R. § 35-8-5.7.a requires, in part, that the operation	bosed to be located; (2) The owners of record of the surface tract or tracts overlying the ed well work, if the surface tract is to be used for roads or other land disturbance as abmitted pursuant to subsection (c), section seven of this article; (3) The coal owner, which the well proposed to be drilled is located [sic] is known to be underlain by one or afface tracts overlying the oil and gas leasehold being developed by the proposed accement, construction, enlargement, alteration, repair, removal or abandonment of any hais article; (5) Any surface owner or water purveyor who is known to the applicant to need within one thousand five hundred feet of the center of the well pad which is used to the distant and (6) The operator of any natural gas storage field within which the finore than three tenants in common or other co-owners of interests described in ds, the applicant may serve the documents required upon the person described in the lant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any en holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. too shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any
Name:	☑ Application Notice ☑ WSSP Notice ☑ E&s	S Plan Notice Well Plat Notice is hereby provided to:
Name: Name: Windsor Coal Company Address: 1000 Consol Energy Drive Canonsburg, PA 15317 COAL OPERATOR Name: Address: Address: Address: Address: Address: Address: SURFACE OWNER(s) (Road and/or Other Disturbance) SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: Address: Address: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Address	SURFACE OWNER(s)	COAL OWNER OR LESSEE
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API NO. 44 7 0-6 0 0 0 2 7 1 OPERATOR WELL NO. Dallas Hall OHI 3H Well Pad Name: Dallas Hall OHI Pad

WV Dapartment of Er 06/08/2018

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

Notice Time Requirer	nent: notice shall be provide	ded no later than	the filing date of permit application.	
Date of Notice:	Date Permit Applicat	tion Filed:	118	
PERMIT FOR A	NY D CERTIFIC	CATE OF APPR	OVAL FOR THE	
WELL WORK			N IMPOUNDMENT OR PIT	
Delivery method purs	uant to West Virginia Co	de § 22-6A-10(l	p)	
PERSONAL	☑ REGISTERED	П метно	D OF DELIVERY THAT REQUIRES A	
SERVICE	MAIL		T OR SIGNATURE CONFIRMATION	
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			□ Well Plat Notice is hereby provided to:	
SURFACE OWNER			7 COAL OWNER OR LESSEE	
Name: Dallas J. Hall			Name: Alliance Resources, GP LLC. Attn: Evan MidJer	_
Address: 1953 G C and P i	Road	11,	Address: 2596 Battle Run Road	_
Triadelphia, WV 26059			Triadelphia, WV 26059	_
Name:			☐ COAL OPERATOR	
Address:			Name:	-
			Address:	_
	(s) (Road and/or Other Dis		and the second of the second o	_
Name:		-	SURFACE OWNER OF WATER WELL	
Address:			AND/OR WATER PURVEYOR(s)	
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		_ 1	□ OPERATOR OF ANY NATURAL GAS STO	
	(s) (Impoundments or Pits		Name:	_
Name:	A		Address:	- OFCEN/FD
Address:		-	*Please attach additional forms if necessary	RECEIVED Office of Oil and Gas
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WW Disportment of Environmental Profession 47-0-6 9-0-0-2-7-1 API NO. 47-069

OPERATOR WELL NO. Dallas Hall OHI 3H
Well Pad Name: Dallas Hall OHI Pad

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

API NO. 44 0 0 6 9 0 0 2 7 1

OPERATOR WELL NO. Dallas Hall OHI 3H 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 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 and 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

WV Department of Environmental Protection

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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- 069 OPERATOR WELL NO. Dallas Hall OHI 3H
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.

Office of Oil and Gas

JAN 3 0 2018

V/V Department of Environmental Protection

1 NO. 47-069 0 6 9 0 0 2 7 1

OPERATOR WELL NO. Dallas Hall OHI 3H
Well Pad Name: Dallas Hall OHI Pad

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 304-884-1614 Email: Dee_Southali@swn.com Address: P.O. Box 1300 Jane Lew, WV 26378

Facsimile: 304-884-1690

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.

OFFICIAL SEAL
Notary Public, State of West Virginio
BRITTANY R WOODY
aso2 Old Elkins Road
Buckhannon, VIV 26201
My commission expires November 27, 2022

Subscribed and sworn before me this

day of

Notary Public

My Commission Expires_

RECEIVED Office of Oil and Gas

JAN 3 0 2018

WV Department of Environmental Protection



PARCEL (ID	OWNER .	Address	CHTY STANE 74B	Wertheroughter.
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	1
03 L4002200000000	RUTHERS DAVID G & LINDA F	4196 OGLEBAY DR	WHEELING WV 26003	1
03 L40020000000000	OPIC CRYSTAL	112 AVALON EST	WHEELING WV 26003	1

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Office of Oil and Gas

APR 26 2018

WV Department of Environmental Protection WW-6A3 (1/12)

Operator Well No. Dallas Hall

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

shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to
Date of Planned Entry: 11/13/2017
Date of Flanded Billy.
t Virginia Code § 22-6A-10a
STERED
RECEIPT OR SIGNATURE CONFIRMATION
2-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry by plat surveys required pursuant to this article. Such notice shall be provided at least seven days for to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams coloration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any tract in the county tax records. The notice shall include a statement that copies of the state Erosion he statutes and rules related to oil and gas exploration and production may be obtained from the clude contact information, including the address for a web page on the Secretary's web site, to expless from the secretary.
COAL OWNER OR LESSEE
Name: Alliance Resources GP, LLC Attn: Evan Midler
Address: 2596 Battle Run Road
Triadelphia, WV 26059
■ MINERAL OWNER(s)
Name: Dallas J. Hall & Agnes L. Hall Address: 1953 G C and P Road
Triadelphia, WV 26059-1317
*please attach additional forms if necessary
2-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct follows: Approx. Latitude & Longitude: 40.133412, -80.612901 Public Road Access: Bethøny Pike
Watershed: Short Creek
Generally used farm name: Dallas Hall OHI Pad
iment Control Manual and the statutes and rules related to oil and gas exploration and production, at the WV Department of Environmental Protection headquarters, located at 601 57 th Street, SE, 450). Copies of such documents or additional information related to horizontal drilling may be ting www.dep.wv.gov/oil-and-gas/pages/default.aspx . RECEIVED Office of Oil and Gas
LAND A AGAIA
MPANY, LLC Address: PO BOX 1300 JAN 3 0 2018
JANE LEW, WV 26378 WV Department of
r brittany_woody@swn.com Facsimile: Environmental Protection
iment Control Manual and the statutes and rules related to oil and gas exploration and proceedings, at the WV Department of Environmental Protection headquarters, located at 601 57 th 450). Copies of such documents or additional information related to horizontal drilling www.dep.wv.gov/oil-and-gas/pages/default.aspx . Address: PO BOX 1300 JANE LEW, WV 26378

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.

WW-6A3 (1/12)

Operator	Wall	No	Dallas Hall
Operator	WCII	INU.	-

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

Date of Notice:	11/6/2017	Date of Plan	ned Entry: 11/13/2017			
Delivery metho	d pursuant t	o West Virginia Co	de § 22-6A-10a			
				TATED A THAT DE	ZOLUBEE A	
☐ PERSONA	L =	REGISTERED	☐ METHOD OF DEI			
SERVICE		MAIL	RECEIPT OR SIGN	NATURE CONFIR	MATION	
on to the surface out no more than beneath such tra owner of minera and Sediment Co Secretary, which	tract to cond in forty-five do ct that has fill its underlying ontrol Manual instatement sh	luct any plat surveys ays prior to such ented ed a declaration pur such tract in the co I and the statutes an	rior to filing a permit appli required pursuant to this a ry to: (1) The surface owner muant to section thirty-six, a anty tax records. The notice dirules related to oil and gan information, including the a e secretary.	rticle. Such notice s r of such tract; (2) rticle six, chapter t e shall include a sta s exploration and p	shall be provided at le to any owner or lesse wenty-two of this con atement that copies o roduction may be ob	east seven days the of coal seams de; and (3) any of the state Erosion tained from the
Notice is hereby	y provided to):				
SURFACE	OWNER(s)		■ COA	L OWNER OR LE	SSEE	
Vame: Dallas J. Ha			Name: w	ndsor Coal Company		
Address: 1953 G				1000 Consol Energy Drive		-
Triadelphia, WV 26059	0-1317		Canonsburg,	PA 15317-6506		43
Name:			E vo	cour ounmo()		
Address:				ERAL OWNER(s)		
				llas J. Hall & Agnes L. Hall		4,/
Address:			Address:	1953 G C and P Road W 26059-1317		-
				h additional forms if ne	cessary	-
a plat survey on State: <u>v</u> County: <u>c</u>	t Virginia Co		Public Road	tude & Longitude:		g entry to conduct
_	iberty		Watershed:		Short Creek	
Quadrangle: B	ethany		Generally us	ed farm name:	Dallas Hall OHI Pad	
nay be obtained Charleston, WV	from the Sec 25304 (304 he Secretary b	cretary, at the WV I -926-0450). Copies by visiting <u>www.der</u>	Manual and the statutes are department of Environment of such documents or additional and easy pages/	al Protection headq tional information	uarters, located at 60	11 57 th Street, SE, drilling may be
	of Siven by		Address:	PO BOX 1300		RECEIVED Office of Oil and Ga
Notice is here	SWIN PROBLEM	TON COMPANT, LLC		JANE LEW, WV 26378	3	
Notice is here Well Operator:	SWN PRODUCT					10.01 0 0 0010
Notice is here	304-884-1610	wn.com or brittany_woody@	swn.com Facsimile:			JAN 3 0 2018

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

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

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

Date of Notic	ce: 11/27/2017			TEN (10) days prionto filing a pplication Filed:		
Delivery met	hod pursuant	to West Virginia C	ode § 22-6A	-16(b)		
☐ HAND		CERTIFIED MAI				
DELIVE		RETURN RECEI		TED		
receipt reques drilling a hori of this subsec subsection ma	sted or hand de izontal well: F tion as of the d ay be waived in	livery, give the surfa Provided, That notice late the notice was p a writing by the surfa	nce owner no e given pursu rovided to the ace owner. T	or to filing a permit application tice of its intent to enter upon that to subsection (a), section to surface owner: <i>Provided, hor</i> The notice, if required, shall income the operator and the operator	he surface owner's land for en of this article satisfies the wever, That the notice requi- lude the name, address, tele	the purpose of e requirements rements of this phone number,
Notice is he	reby provide	d to the SURFAC	E OWNER	R(s):		
Name: Dallas J	Hall	3.50.00.00.00	_/	Name:		
Address: 1953			/	Address:		
Triadelphia, WV 2	26059					
the surface ov				eby given that the undersigned all well on the tract of land as for LEMANAR 22 Easting:		t to enter upon
the surface ov State: County:	vner's land for West Virginia Ohio			al well on the tract of land as for UTM NAD 83 Easting: Northing:	532,980.600 4,442,631.202	t to enter upon
the surface ov State: County: District:	wner's land for West Virginia Ohio Liberty			ut well on the tract of land as for UTM NAD 83 Public Road Access: Easting: Northing:	532,980.600 4,442,631.202 G C and P Road	t to enter upon
the surface ov State: County: District: Quadrangle:	vner's land for West Virginia Ohio	the purpose of drilli		al well on the tract of land as for UTM NAD 83 Easting: Northing:	532,980.600 4,442,631.202	t to enter upon
the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor	West Virginia Ohio Liberty Bethany Upper Ohio South Shall Includ West Virginia aber and electrizontal drilling	e: Code § 22-6A-16(bronic mail address of may be obtained fi	o), this notice of the operate on the Secr	ut well on the tract of land as for UTM NAD 83 Public Road Access: Easting: Northing:	ollows: 532,980.600 4,442,631.202 G C and P Road Dallas Hall OHI ress, telephone number, an ed representative. Addition of Environmental Protection	d if available, al information headquarters,
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he surface over State: County: County: District: Quadrangle: Watershed: This Notice Pursuant to Versuant to Notice at 601 Notice is he Well Operato	wher's land for West Virginia Ohio Liberty Bethany Upper Ohio South Shall Includ West Virginia aber and electrizontal drilling 57th Street, SE reby given by The Sun Production	e: Code § 22-6A-16(bronic mail address of may be obtained file., Charleston, WV 2 y: on Company, LLC	o), this notice of the operate on the Secr	al well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: e shall include the name, add for and the operator's authorized at the WV Department of 26-0450) or by visiting www.de	ollows: 532,980.600 4,442,631.202 G C and P Road Dallas Hall OHI ress, telephone number, an ed representative. Addition of Environmental Protection ep.wv.gov/oil-and-gas/pages	d if available, al information headquarters, s/default.aspx.
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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.

WW-6A5 (1/12) Operator Well No. Dallas Hall OHI 3H

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

Dalim		equirement: notice shall be pr : 11/27/2017 Date P		o later than the filing pplication Filed:	date of permit	application.
Denve	ery meth	od pursuant to West Virginia	Code § 2	22-6A-16(c)	, ,	
	CERTIFI	ED MAIL	П	HAND		
		N RECEIPT REQUESTED	_	DELIVERY		
return the pla require drillin damag (d) Th of notice (at the	receipt reanned op ed to be p g of a ho ges to the e notices ice.	equested or hand delivery, give eration. The notice required lorovided by subsection (b), sect orizontal well; and (3) A propo- surface affected by oil and gas	the surfa by this su ion ten of sed surfa operation e given to	the owner whose land absection shall inclused this article to a surface use and compens to the extent the day of the surface owner and the surface owner a	I will be used for de: (1) A copy ace owner whose sation agreement amages 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 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
	Dallas Hall		_	Name:		
	SS: 1953 G ohia, WV 260	C and P Rd		Addres	s:	
Pursua	int to We					well operator has developed a planned
Pursua operat State: Count	int to We ion on the	st Virginia Code § 22-6A-16(c) ne surface owner's land for the p West Virginia Ohio		of drilling a horizonta	d well on the tra Easting: Northing:	tet of land as follows: 532,980.600 4,442,631.202
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DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

JAN 3 0 2018

RECEIVED Office of Oil and Gas



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

December 20, 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 Dallas Hall Pad OHI 3H Well Site, Ohio County

Dear Mr. Martin,

Jim Justice

Governor

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,

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

JAN 3 0 2018

WW Department of Environmental Protection

06/08/2018

•	FRAC A	DDITIVES	
Product Name	Product Use	Chemical Name	CAS Number
		Hydrogen Peroxide	7722-84-1
EC6734A (Champion Technologies)	Biocide	Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
		Methanol	67-56-1
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Nonylphenol Ethoxylate	Proprietary
		Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-	111-30-8
Bactron K-139 (Champion Technologies)	Biocide	16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
		Ethanol	04-17-3
B	D iacida	Methanol	67-56-1
Bactron K-219 (Champion Technologies)	Biocide	Quaternary Ammonium Compounds, Benzyl-C12-	
		16-Alkyldimethyl, Chlorides	68424-85-1
		Amine Triphosphate	Proprietary
EC6486A (Nalco Champion)	Scale Inhibitor	Ethylene Glycol	107-21-1
		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
		Butyl cellosolve	111-76 2
AI-303 (U.S. Well Services)	Mixture	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
OT THE LEX (0.3. Well Services)	Viscositying Agent	Methanol	67-56-1
		Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
Econo-Cl200 (SWN Well Services)	Corrosion Inhibitor	Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
		Acetic Acid	64-19-7
Ecopol-FEAC (SWN Well Services)	Iron Control	Citric Acid	77-92-9
,		Water	7732-18-5
		Hydrochloric Acid	7647-01-0
HCL (SWN Well Services)	Hydrocholic Acid	Water	7732-18-5
FLOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
		Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol	107-21-1
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary.
		Water	7732-18-5
ED 76	Fulation Dadress	Hydrotreated light petroleum distillate	64742-47-8
FR-76 (Halliburton)	Friction Reducer	Inorganic Salt	Proprietary
HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
EDD 01476 45 ***	Fulation Doubles	Polyacylate	Proprietary
FDP-S1176-15 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
LP-65 MC (Halliburton)	Cools Inhibits	Organic phosphonate	Proprietary
- IV-D5 N/II /Ualliburtan)	Scale Inhibitor	Ammonium Chloride	12125-02-9

RECEIVED Gas
JAN 30 2018
JAN 30 Papariment of

6708/2018

USGS 7.5 BETHANY/VALLEY GROVE QUAD MAPS





DALLAS HALL OHI WELL PAD

CONSTRUCTION AS-BUILT & RECLAMATION PLAN

LIBERTY DISTRICT, OHIO COUNTY, WV OCTOBER 2017

LOCATION COORDINATES: ACCESS ROAD ENTRANCE

LATITUDE: 40.120841 LONGITUDE: -80.615332 E 1747953.31

(UTM ZONE 17 METERS)

WELL PAD CENTER LATITUDE: 40.130400 LONGITUDE: -80.612897

(NAD-83) N 14575545.96 E 1748514.12 (UTM ZONE 17 METERS)

- 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

TOTAL DISTURBED AREA: 22.50 ACRES
ROAD DISTURBED AREA: 14.06 ACRES
FAD DISTURBED AREA: 8.54 ACRES



WEST VIRGINIA DIVISION OF HIGHWAYS COUNTY ROAD MAP

ENGINEERING ESTIMATE OF QUANTITIES



WELL NAMES	WW NORTH	WW NORTH	(METERS)	NAD STATS	ELEVATION
	NAD 27	NAD 83	ZONE 17	LONG	(FEET)
		AS-DEILLE	D COORDINATES		
DALLAS HALL 6H	N 506797.18	N 506834.10	N 4442622.64	LAT 40.130286*	1276,47
(DRILLED) API# 47 069-00076	E 1688759.51	E 1057324.75	E 502977.51	LONG -60.012911*	
DALLAS HALLSH	N 596784,13	N 595821,05	N 4442618,63	LAT 40.133250*	1276,711
(DRILLED) APM 4T-069-00076	E 1638754,42	E 165/319.60	E 532076.00	LONG -80.512929*	

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 REGLAMATION PLAN
16	AS-BUILT WELL PAD RECLAMATION PLAN
17	GENERAL NOTES AND DETAILS
1B-19	DETAILS

AS-BUILT CERTIFICATION	CIA/IDR
THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO	SWN
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.	Southwestern Energy*

INSTALL MOUNTABLE BERM	87	CY
RAISE EXISTING CONTAINMENT BERM TO MIN, 2' HEIGHT	10	CY
SEED & MULCH DISTURBED AREAS	220	SY
18" COMPOST SOCK	342	LF
STONE FOR PAD SURFACE REPAIR AND MOUNTABLE BERM STONE SURFACING	38	CY
WELL SITE PAD DATA	(RECLAM	ATION)
REMOVE SUMP	2	EA
BREACH BERM	2	EA
10' WIDE RIP-RAP DISCHARGE CHANNELS	18	CY

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!!



ANSI FULL BLEED D (22.00 X 34.00 INCHES

1 of 19

7688-016-011

2018

JAN

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ROJECT NO.

NIRANGE

USGS 7.5 BETHANY/VALLEY GROVE QUAD MAPS 4000 FEFT





DALLAS HALL OHI WELL PAD

CONSTRUCTION AS-BUILT & RECLAMATION PLAN

LIBERTY DISTRICT, OHIO COUNTY, WV OCTOBER 2017

LOCATION COORDINATES:

LATTUDE: 40.120841 LONGITUDE: 40.019330 N 14570000.65 E 1747953.31

MADEN MIM ZONE 17 METIPES

WELL PAD CENTER LATITUDE 43 133400 N 14375543.90

E 1746014.12

(HAD-RS) (UTM 20MB TO METERS)

THE ASSULT AN DEMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATIVISTS THE FINAL GRADING OF THE DISTURBED AREA AS OF AURUST 4, 2017 LARSON DESIGN DROUP IS FOR RESPONSIBLE FOR ANY OWNINGS MADE TO THE SYTE AFTER THE ABOVE WORTHORN DUTE.

FROME HTY OF CHIMATION SHOWN HERIFOR WAS PROVIDED BY

SOUTHWESTERN ENERGY AND MAY NOT THE LEGT GURLEY!

TOTAL DISTURBED AREA: 22,60 AERES POAD DISTURBED AREA: 14.06 ACRES PAD DISTURBED AREA: 8.54 ACRES



WELLNAMES	WONDETH HAD 27	NA HORTH	INCHERS	HAD OSCUT U LING	ELEVATEDA) (FEET)	
	AS SHALLSDEDGROWINE					
DIRECT FOLL OF	6/100707.18 E 1680750.01	\$25,000.04.10 E 105,7524.29	E STORT ST	LONG -BUT THIS!	1378.47	
DALLAE HOLL ME	N.595784.15 F. 1858714.22	# 190121 05 6 0037347 40	N 144201EES	LAT 40 195250"	1278.7E	

SHEET INDEX

1	COVER	SHEE

EVACUATION ROUTE/PREVAILING WINDS

AS BUILT OVERALL PLAN SHEET INDEX

ACCESS ROAD AS-BUILT PLAN

WELL PAD AS-BUILT PLAN

ACCESS ROAD AS-BUILT PROFILE

11 WELL PAD AS BUILT PROFILE

12 AS-BUILT RECLAMATION PLAN OVERALL PLAN SHEET INDEX

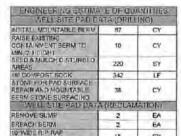
13-15 AS-BUILT ACCESS ROAD RECLAMATION PLAN.

16 ASSECUTE WELL PAD RECLAMATION PLAN

17 GENERAL NOTES AND DETAILS

DETAILS.

THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTAC JED HERETO. HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CSR 35-5



DISCHARGE CHANNELS

Southwestern Energy/

15

CY

1-800-245-484B

Requires that you call two

the state of West Virginia





Larson Design Group



7 or 19

7588-016-D11

