

#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

September 21, 2015

#### WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-6900194, issued to SWN PRODUCTION COMPANY, LLC, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

Operator's Well No: GW RENTALS LLC OHI 205H

Farm Name: GW RENTALS, LLC.

API Well Number: 47-6900194

Permit Type: Horizontal 6A Well

Date Issued: 09/21/2015

API Number:	

## PERMIT CONDITIONS 4706900194

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

#### CONDITIONS

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

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

			700	
1) Well Operator: SV	VN Production Co., LLC	494512924	69- Ohio	7-Triadel 648- Valley Grove
		Operator ID	County	District Quadrangle
2) Operator's Well Nu	mber: G W Rentals LLC O	HI 205H Well Pa	d Name: G W	/ Rentals LLC OHI Pad
3) Farm Name/Surface	Owner: G W Rentals LL	C Public Ro	ad Access: W	est Alexander Road
4) Elevation, current gr	round: 1246' El	evation, proposed	post-construc	tion: 1247'
<ol> <li>Well Type (a) Gas</li> <li>Other</li> </ol>	s x Oil _	Unc	lerground Store	age
(b)If C	as Shallow x	Deep		
	Horizontal ×			
6) Existing Pad: Yes or	r No yes			
	rmation(s), Depth(s), Antic ellus, Target Top TVD-6508', Tar			Pressure(s): ness-36', Associated Pressure-3900'
8) Proposed Total Vert	ical Depth: 6521'			
9) Formation at Total V	Vertical Depth: Marcellus	5		
10) Proposed Total Me	easured Depth: 16,282'			
11) Proposed Horizont	al Leg Length: 6546'			
12) Approximate Fresh	Water Strata Depths:	510'		
13) Method to Determi	ine Fresh Water Depths:	rom nearby wat	er wells and o	ffset wells
14) Approximate Saltv	vater Depths: 1339'			
15) Approximate Coal	Seam Depths: 606-629'			
16) Approximate Depti	h to Possible Void (coal mi	ne, karst, other):	Void Expecte	ed from approximately 606'-629'
	Il location contain coal sear djacent to an active mine?	ns Yes	N	o x
(a) If Yes, provide M	ine Info: Name:			
4.	Depth:			
	Seam:			
	Owner:			

Page 1 of 3

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GES 11/5

OPERATOR WELL NO. GWRENGE LLC CHI 2384
Well Pad Name: GW Rentals LLC OHI Pad

#### 18)

#### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	J-55	54.5#	660'	660'	600 sx/CTS
Coal	9 5/8"	New	J-55	40#	2081'	2081'	775 sx/CTS
Intermediate	7"	New	J-55	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	16,282'	16,282'	Load State as the Entire section process in the
Tubing	2 3/8'	New	P-110	4.7#	Approx. 7369'	Approx. 7369'	
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface 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	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners				NO SO			

PACKERS CE TO THE REST OF THE PACKERS CE TO THE

Kind:	10K Arrowset AS1-X	W. William	
Sizes:	5 1/2"	4	
Depths Set:			

Page 2 of 3

WW-6B
(10/14)

API NO. 47-69

OPERATOR WELL NO. GW Rondoms LLC CHI 205H

Well Pad Name: GW Rentals LLC OHI Pad

	19) Des	cribe propos	ed well work,	including	the drilling and	plugging	back of any	pilot hole:
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Drill and stimulate any potential zones between and including the Benson to Marcellus. \*\*If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface. Run casing not less than 20' below void nor more than 50'-70' below void. (\*If freshwater is encountered deeper than anticipated it must be protested, set casing 50'-70' below and cts.)

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 10.8
- 22) Area to be disturbed for well pad only, less access road (acres): 3.9

23) Describe centralizer placement for each casing string:

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

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

See Attachment \*\*\*

25) Proposed borehole conditioning procedures:

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

Received

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\*Note: Attach additional sheets as needed.

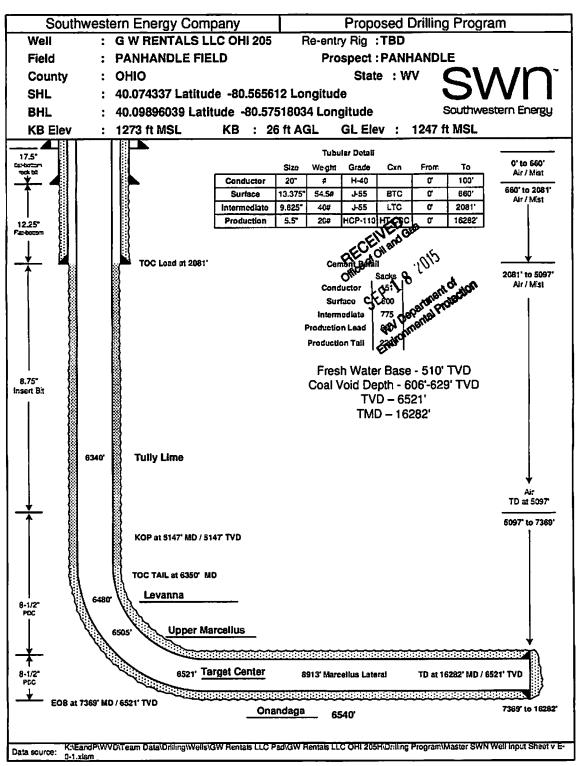
### **Schlumberger Cement Additives**

	Product Name	Product Use	Chemical Name	CAS Number
Surface	\$001	accelerator	calcium chloride	10043-52-4
Intermediate Surface	S001	accelerator	calcium chloride	10043-52-4
Na.	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
o s	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
þe	D046	antifoam	fullers earth (attapulgite)	8031-18-3
Production-Lead			chrystalline silica	14808-60-7
tior	D201	retarder	metal oxide	propriatary
) ap			sulphonated synthetic polymer	propriatary
Pro	D202	dispersant	formaldehyde (impurity)	propriatary
			polypropylene glycol	25322-69-4
	D046	antifoam	fullers earth (attapulgite)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	propriatary
=			sodium polynaphthalene sulfonate	9008-63-3
Production-Tail	D065	dispersant	sodium sulfate	7757-82-6
tior			chrystalline silica	14808-60-7
qnc	D201	retarder	metal oxide	propriatary
Pro	D153	anti-settling	chrystalline silica	14808-60-7

RECEIVED
Office of Oil and Gas

SEP 1 5 2015

WV Department of Environmental Protection



KOTE: This drawing was presend for the Roomby Rig. The departs and lengths shown in the plast are referenced to Reamby Rig RKB.

API Number 47 -	69		
Operator's	Well No.	G W Rentals LLC OHI 205H	

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_SWN Pr	roduction Co., LLC	OP Code 494513	2924 4 >
Watershed (HUC 10)_L	_ittle Wheeling Creek	Quadrangle 648- Valley Grove	2924 <b>4 7 0 6 9 0 0 1 9 4</b>
Elevation 1246	County 69- Ohio	District 7-Tria	delphia 194
Do you anticipate using Will a pit be used? Y			V No L
	escribe anticipated pit waste.	system in place at this time- cuttings will be	
		No ✓ If so, what ml.?	
Proposed Disp	osal Method For Treated Pit Wastes:		
	<ul> <li>Land Application</li> <li>Underground Injection ( UIC Permit )</li> </ul>	200072539/200413175/2006	310306/200610317
		d well, API# will be included with the WR-34/DDM	R &/or permit addendum.
	Off Site Disposal (Supply form WW-	9 for disposal location)	
Will closed loop system	be used? If so, describe: Yes		
Drilling medium anticip	pated for this well (vertical and horizontal	)? Air, freshwater, oil based, etc. Ard	INF SO KOP, fluid and with SOBM from KOP to TD
-If oil based, w	what type? Synthetic, petroleum, etc.Synthe	etic Oil Base	
	drilling medium? see attached sheets		
Drill cuttings disposal n	method? Leave in pit, landfill, removed o	ffsite, etc. landfill	
	nd plan to solidify what medium will be u		
-Landfill or off Argen Langill 100	fsite name/permit number?************************************	try VVICE 3839U/CID3839U, F	7/CIO28726, Carbon Limeistone 28726/CIO28726
I certify that I on August 1, 2005, by the provisions of the permilal awar regulation can lead to certify under application form and a obtaining the informati penalties for submitting	understand and agree to the terms and co he Office of Oil and Gas of the West Virg it are enforceable by law. Violations of ad to enforcement action. It penalty of law that I have personally all attachments thereto and that, based ion, I believe that the information is tru- tally false information, including the possibility	enditions of the GENERAL WATER ginia Department of Environmental I any term or condition of the genera examined and am familiar with the on my inquiry of those individua ie, accurate, and complete. I am a	POLLUTION PERMIT issued Protection. I understand that the I permit and/or other applicable information submitted on this
Company Official Signa			AUG 1 4 2015
	ped Name) Dee Southall		
Company Official Title	Regulatory Supervisor		flice of Oil and Gas of Environmental Protection
Subscribed and sworn b	2 Wody	Notary Pal	OFFICIAL SEAL Notary Public, State of West Virginia BRITTANY R WOODY 3302 Old Elkins Road Buckhannon, WV 25201

Form WW-9 SWN Production Co	., LLC	Operator's V	G W Rentals LLC C
Proposed Revegetation Treatr	1	0.8 Prevegetation pl	н
Lime as cetermined by pH test	Tons/acre or to correct	ct to pH 6.5	
Fertilizer type		*,	06
Fertilizer amount 60	00	lbs/acre	900
Mulch_ Hay/Stra		_Tons/acre	0690019
		Seed Mixtures	
Ten	nporary	Perma	nnent
Seed Type	lbs/acre	Seed Type	lbs/acre
White Grove	15	White Grove	15
Red Top	15	Red Top	15
Orchard Grass	20	Orchard Grass	20
Drawing(s) of road, location, provided)  Photocopied section of involv		land application (unless engineered plans in	cluding this info have bee
Plan Approved by:	ng Tulialso	er G. Kl	) y/22/11
		<del>-</del>	enseived
		1	AUG 1 4 2015
			AUU

Title: Oil and Gas Inspector

Field Reviewed?

Yes

09/25/2015	09	3/25	5/20	15
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4706900194

#### Marcellus Well Drilling Procedures And Site Safety Plan

SWN Production Co., LLC

47 - 051 Well name: G W Rentals LLC OHI 205H
Valley Grove, Quad
Triadelphia, District
Ohio County, West Virginia

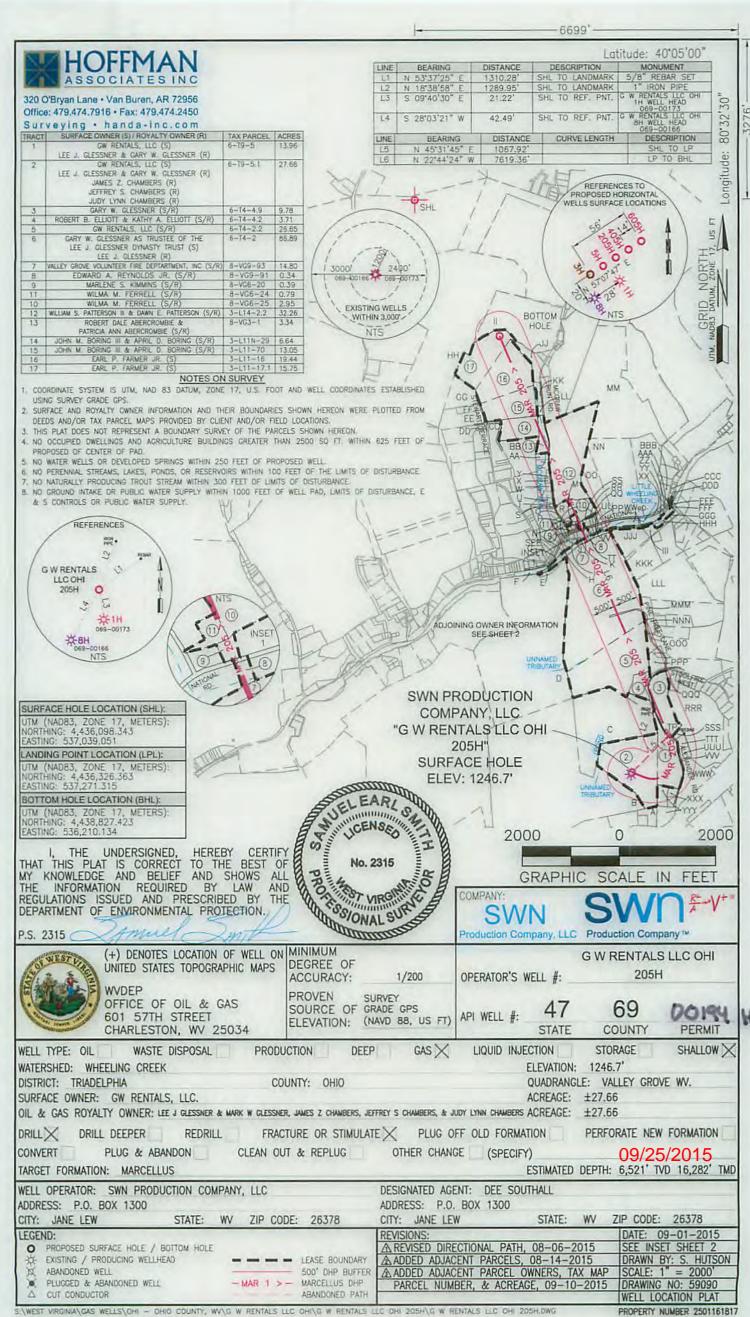
Submitted by:  Danielle Southall	4/20/2015 Date:
Title Regulatory Supervisor	SWN Production Co., LLC
Approved by:  Title: Of d Goes lugger  Approved by:	Date: 4=2/5
	Date:
Title:  SWN Production Co., LLC – Confidentia	

Received

AUG 1 4 2015

Office of Oil and Gas

Wy Dunit at Environmental Protection





320 O'Bryan Lane • Van Buren, AR 72956 Office: 479.474.7916 • Fax: 479.474.2450 Surveying · handa-inc.com

-	ADJOINING OWNER INSET							
TRACT	TOTAL OTHER	TAX PARCEL	ACRES					
В	BUD & DARL INC WINDMILL TRUCKERS CENTER INC	6-T9-6.6 6-T9-4	2.31					
C	GW RENTALS, LLC	6-T9-5.2	140.00					
D	BETTY M SINCLAIR	3-L14-1.1	38.15					
E	VALLEY GROVE VOLUNTEER	8-VG9-94	0.83					
F	JOE VESPA	8-VG9-92.1	1.01					
G	VILLAGE OF VALLEY GROVE	8-VG9-81	1.12					
H	VILLAGE OF VALLEY GROVE	9-VG9-82	0.51					
1	CARL W PHILABAUM III	9-VG9-85	0.69					
J	JEPSON L. NELSON & CAROL L. NELSON	8-VG9-87	0.27					
K	GEORGE E BESS & CATH L BESS	8-VG9-89	0.63					
L M	JOSEPH T WILSON & CONNIE A WILSON	8-VG6-19	0.12					
N	BRIAN BONACCI JO ANN RICHMOND	8-VG6-18	0.20					
0	JEFFREY HEWITT & MARY PACZEWSKI	8-VG6-17 8-VG6-13	0.18					
P	PATTY L NAUMANN	8-VG6-16	0.61					
Q	JOHN E. NAUMANN & PATTY L. NAUMANN	8-VG6-15	0.21					
R	BARBARA A GORNIK	8-VG6-14	1.50					
S	DENISE A. STILES & JOANNA D. MAAS	8-VG6-7.2	0.18					
T	DENISE A. STILES & JOANNA D. MAAS	8-VG6-7.1	0.24					
U	GROVER BROGAN & STEPHANIE BROGAN	8-VG6-6	0.64					
V	JERRY VARGO & MARIANNE VARGO	8-VG6-3	1.95					
W	ANDREW M. STRAIGHT & KYRIE E. STRAIGHT	8-VG6-5	0.42					
X	GREIGORY C PAETZOLD	8-VG6-2.1	0.24					
Y	GREGORY C PAETZOLD	8-VG6-2	0.25					
Z	GREGORY C PAETZOLD	8-VG6-3.1	2.01					
AA	ROBERT DALE ABERCROMBIE & PATRICIA ANN ABERCROMBIE	8-VG6-1	0.83					
BB	ROBERT ABERCROMBIE & PATRICIA ABERCROMBIE  JOHN M BORING III & APRIL D BORING	3-L14A-197 3-L11N-31	10.08					
DD	DAVID E. DAVIS, JR.	3-L11N-14	0.27					
EE	JOANNE L. ROSE	3-L11-18.1	5.92					
FF	MARY J. ROSE & HARRY R. MENCH	3-L11-18.3	1.47					
GG	EARL FARMER JR & HEATHER NAVE FARMER	3-L11-18	6.79					
НН	ERIC W LYTTLE	3-L10-49	117.06					
11	RYAN C. BLAKELY & HEATHER R. BLAKELY	3-L11-11	32.14					
JJ	CHARLES A. TAGGART, CORA A. TAGGART & NORVAL A. TAGGART	3-L11-15	4.84					
KK	PATRICIA LYNN TAGGART	8-VG3-3	2.00					
LL	MICHAEL D VARGO & MELISSA JEAN VARGO	3-L11-10	134.09					
MM	KENNETH L. COOPER & KAREN REUSSER	3-L11-20.1	66.28					
NN	KENNETH L. COOPER & KAREN REUSSER LYNN REUSSER & KARENA REUSSER	8-VG7-24.1 8-L14-2	25.87					
OO PP	MARY JEAN PHILABAUM	8-VG7-11	0.41					
QQ	SHANNON M HOWARD	8-VG7-12	0.22					
RR	DAY W COOPER & REGINA S COOPER	8-VG6-22	0.21					
SS	MELISSA M. FRYE	8-VG6-21	0.54					
TT	EDWARD GREGORY SCHULTZ & JANET L. SCHULTZ	8-VG6-23	0.36					
UU	LINDA L. RINDER	8-VG7-23	0.26					
W	ROBERT F LUBIC LIFE	8-VG7-22	0.35					
WW	MARTHA A STARKEY & BARBARA A JENKS	8-VG7-18	1.93					
XX	THOMAS J HUNTER & CAROL R HUNTER	8-VG7-17	0.91					
YY	CAROLYN L NICK & DARRYL D NICK	8-VG7-16	0.19					
ZZ	CAROLYN L NICK & DARRYL D NICK	8-VG7-15 8-VG7-9	0.14					
AAA	CARL PHILABAUM III	8-VG7-8.2	1.06					
BBB	CARL W PHILABAUM III & MARY D PHILABAUM RENEE L. MCFADDEN	8-VG7-7	0.32					
DDD	DONALD PLETCHER & PEGGY PLETCHER	3-L14-56	6.64					
EEE	KELLY A CALMBACHER	3-L14-56.1	0.06					
FFF	JAMES R. HALL & KATHY D. HALL	8-VG7-14	0.15					
GGG	VELMA M. SHEETS	8-L14-8	0.30					
ННН	STEVEN PASSA	8-L14-7	0.27					
111	WILLIAM WARD & LOLLYANNE WARD	3-L14-14.6	9.74					
777	RICHARD K DERROW & ALICIA DERROW	3-L14-3	6.74					
KKK	JAMES E LAUDERMILT JR & ASHLEY L LAUDERMILT	3-L14-4	8.62					
LLL	WILLIAM E WARD & LOLLYANNE WARD	3-L14-14.4	18.34					
MMM	JAMES RICHARD HALL JR & MELISSA RENEE HALL	3-L14-14.14	_					
NNN	WILLIAM WARD & LOLLYANNE WARD	3-L14-14.3	1.34					
000	THOMAS DOEPKEN	3-L14-14 6-T4-4.5	25.00 3.39					
PPP	LEE J GLESSNER	6-T4-4.24	1.77					
QQQ	HOWARD A WALLS III & TERESA WALLS  JOSEPH M. TEAGARDEN & MARLA M. TEAGARDEN	6-T4-4.30	33.32					
RRR		6-T4-4.22	0.76					
SSS	ROBERT LEE SCOTT & VALERIE JEAN SCOTT	0-14-4.22	0.70					

0.85 09/25/2015 JAMES W. JOHNSON & BARBARA A. JOHNSON JOANN T MOFFETT 6-T9-6 COMPANY: SWN Production Company ™ Production Company, LLC DATE: 09-01-2015
INSET FROM SHEET 1
DRAWN BY: S. HUTSON
SCALE: N/A
DRAWING NO: 59090
WELL LOCATION PLAT **REVISIONS:** 

6-T4-4.27

6-T4-4.25

6-T4-4.21

6-T9-57

6-T9-6.4

0.76

ROBERT LEE SCOTT & VALERIE JEAN SCOTT

ROBERT J. MCCONNELL

JACK E CORBETT JR

HARRIS, JR., IRREVOCABLE TRUST

RT EDWARD LEE HARRIS & SAMUEL LEE HARRIS, JR., IRREVOCABLE TRUST

& SAMUEL LEE

ROBERT EDWARD LEE HARRIS

ROBERT EDWARD LEE HARRIS &

SSS

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W

WWW

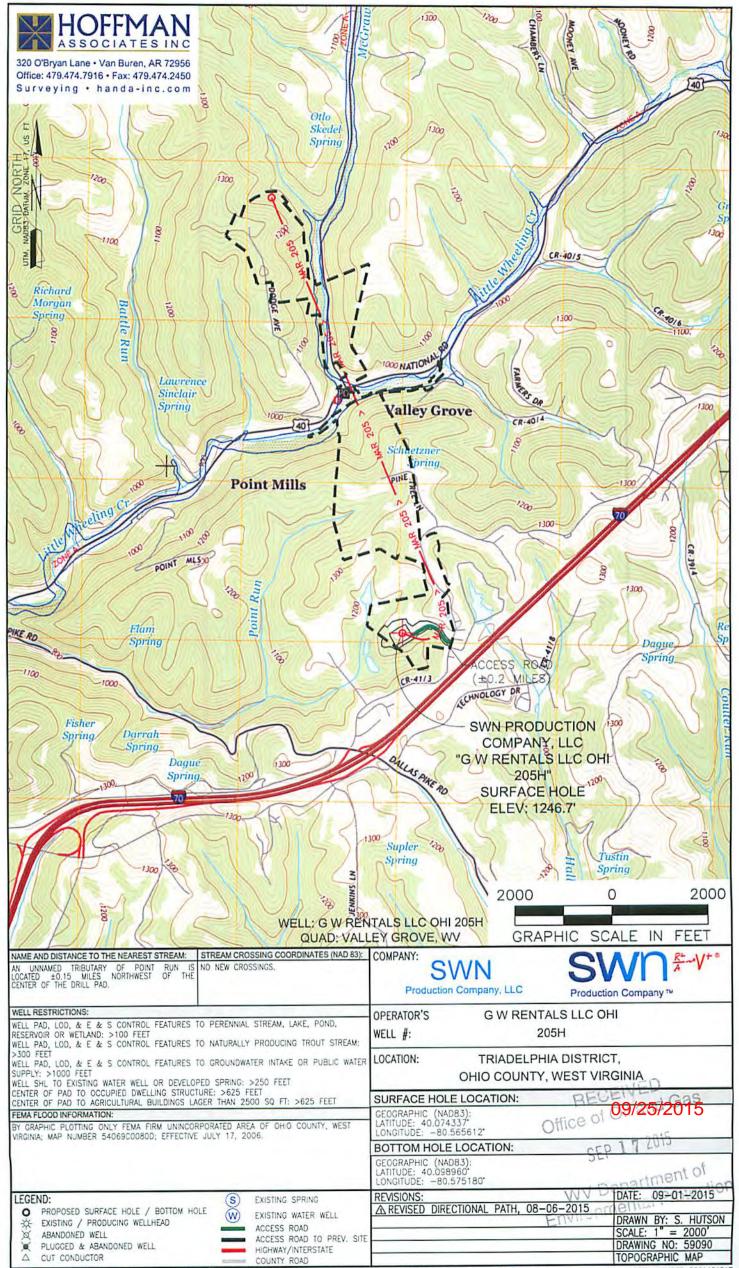
XXX

YYY

9.31 Office of Oil and Gae

HEH!

Prote



S:\WEST VIRGINIA\GAS WELLS\OHI - OHIO COUNTY, WV\G W RENTALS LLC OHI\G W RENTALS LLC OHI 205H\G W RENTALS LLC OHI 205H.DWG
TUESDAY SEPTEMBER 15 2015 03:54PM

PROPERTY NUMBER 2501161817 PAD ID 3001156346 tic

#### 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, 1 depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

"SEE EXHIBIT A"

4706900194 Received

AUG 1 4 2015

Office of Oil and Gas
WV Dept-oi Environmental Protection

#### Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: SWN Production Company L.L.C

By:

Its:

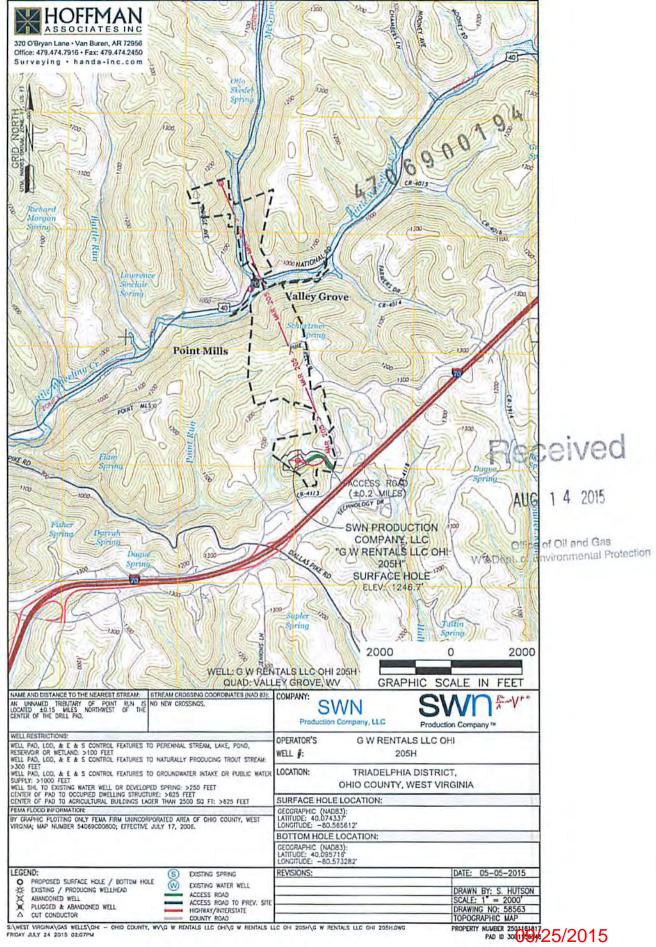
Robert Walter, Landman

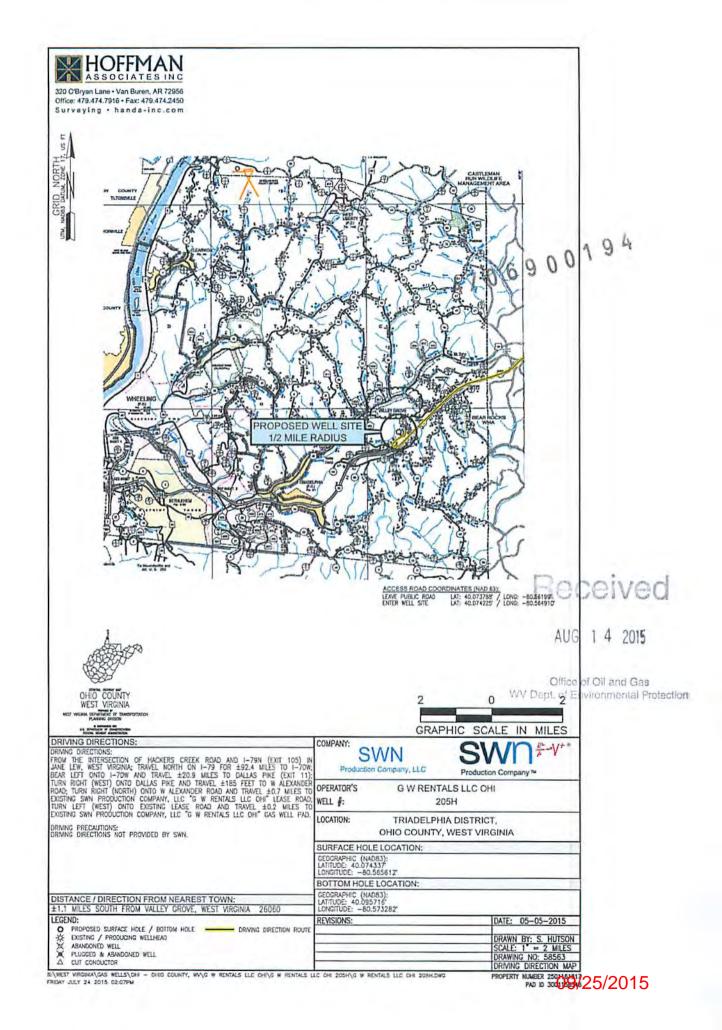
Page 1 of 1

ID# TMP	SURFACE OWNER	DEEDED ACREAC	E LEASE NUMBER	LESSOR	LESSEE	ROYALTY	BK/PG
1) 6-79-5	GW Rentals, LLC, a West Virginia limited liability company	13.960	1-256014-000	Lee J. Glessner, a married man dealing in his sole and separate property; and Gary W. Glessner, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.5%	788/704
					SWN Production Company, L.L.C.		885/470
2) 6-79-5.1	GW Rentals, LLC, a West Virginia limited liability company	27,660	1-256014-000	Lee J. Glessner, a married man dealing in his sole and separate property; and Gary W. Glessner, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.5%	788/704
	and the second second				SWN Production Company, L.L.C.		885/470
			47-003371-01	James Z. Chambers, a/k/a Jimmy Chambers, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC	16.7%	854/267
					SWN Production Company, L.L.C.		885/440
			47-003371-02	Jeffrey S. Chambers, a/k/a Jeff Chambers, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	16.7%	853/746
					SWN Production Company, L.L.C.		885/440
			47-003371-03	Judy Lynn Chambers, a/k/a Judy Chambers, a single woman	Chesapeake Appalachia, LLC.	16.7%	853/741
					SWN Production Company, L.L.C.		885/440
3) 6-14-4-9	Gary W. Glessner	9,777	47-0000106-000	Gary W. Glessner, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	18.0%	859/122
					SWN Production Company, L.L.C.		884/289
4) 6-74-4.2	Robert B. Elliot and Kathy A. Elliot	3.712	1-268315-000	Robert B. Elliott and Kathy A. Elliott, husband and wife	Chesapeake Appalachia, L.L.C.	12.5%	791/47
					SWN Production Company, L.L.C.		285/500
5) 6-74-2.2	GW Rentals, LLC, a West Virginia limited liability company	26 646	1-265430-000	.GW Rentals, LLC, a West Virginia Corporation	Chesapeake Appalachia, L.L.C.	12.5%	790/210
	0.2000000000000000000000000000000000000				SWN Production Company, L.L.C.		885/442
6) 6-74-2	Gary W. Glessner as Trustee of the Lee J. Glessner Dynasty Trust under agreement dated December 10, 2010	86.894	1-256015-000	Lee J. Glessner	Chesapeake Appalachia, LLC	12.5%	788/709
					SWN Production Company, L.L.C.		885/470
7) 8-VG9-93	Valley Grove Volunteer Fire Department, Inc.	14.798	47-001608-000	Valley Grove Volunteer Fire Department, Inc., a West Virginia corporation	Chesapeake Appalachia, L.L.C	18.0%	834/597
					SWN Production Company, L.L.C.		885/176
8) 8-VG9-91	Edward A. Reynolds It.	0.338	47-0000863-000	Edward A. Reynolds Jr., a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	18.0%	874/587
-			V2 50 (80 2. U 90 9		SWN Production Company, L.L.C.		885/548
9) 8-VG6-20	Mariene 5: Kimmins	0,388	47-0000770-000	Marlene S. Kimmins, f/k/a Marlene Prochaska, a single woman	Chesapeake Appalachia, L.L.C.	18,0%	873/278
		90.000	- CONT. C. E. 100		SWN Production Company, L.L.C.		885/452
10) 8-VG6-25	Wilma M. Ferrell	2,945	47-000675-000	Wilma M. Ferrell, a widow	Chesapeake Appalachia, L.L.C.	18.0%	825/374
					SWN Production Company, L.L.C.		885/632
11) 8-VG6-24	Wilma M. Ferreil	0.787	47-000675-000	Wilma M. Ferrell, a widow	Chesapeake Appalachia, L.L.C.	18.0%	825/374
				Offic CA	SWN Production Company, L.L.C.		885/632
12) 3-1.14-2.2	William S. Patterson, III, and Dawn E. Patterson, husband and wife	32 260	1-385480-000	William S. Patterson, III, and Dawn E. Patterson, his wife	Chesapeake Appalachia, L.L.C. SWN Production Company, L.L.C. NPAR, LLC Chevron U.S.A., Inc. Chesapeake Appalachia, L.L.C.	18.0%	815/461
				$^{\circ}\zeta\rho$	Chevron U.S.A., Inc.		827/284
				In. 1 R	Chesapeake Appalachia, L.L.C.		867/713
				Enw VD. CL'	SWN Production Company, L.L.C.		883/730
13) 8-VG3-1	Robert Dale Abercrombie and Patricia Ann Abercrombie	3,340	1-385484-000	Robert Dale Abercrombie and Patricia Ann Abercrombie, husband nonental projection	NPAR, LLC	18.0%	815/397
				Proje of	Chevron U.S.A., Inc.		827/284
				·oct/02	Chesapeake Appalachia, L.L.C.		867/713
				Robert Dale Abercrombie & Patricia Ann Abercrombie, husband and wife	Chesapeake Appalachia, L.L.C.	Unknown	876/83
					SWN Production Company, L.L.C.		883/730
14) 3-L11N-29	John M. Boring III, and April D. Boring, his wife	6.640	1-385475-000	John M. Boring III, and April D. Boring, his wife	TriEnergy Holdings, LLC,	16.0%	804/58
					NPAR, LLC		825/767
					Chevron U.S.A., Inc.		827/254
					Chesapeake Appalachia, L.L.C.		867/713
					SWN Production Company, L.L.C.		883/730
15) 3-L11-70	John M. Boring III, and April D.	13.050	1-385475-000	John M. Boring III, and April D. Boring, his wife	TriEnergy Holdings, LLC,	16.0%	804/582
101 201110	Boring, his wife	13.030	. 303412-000	seem in seems where specially invaria	Thereas By Holdings, ever	10.078	504/38

					NPAR, LLC		825/767
					Chevron U.S.A., Inc.		827/254
					Chosapeako Appalachia, LLC.		867/713
					SWN Production Company, L.L.C.		883/730
16) 3-L11-16	Earl P. Former, Jr.	19.430	1-385471-000	Earl P. Farmer, Jr. a/k/a Earl Farmer, Jr. and Heather Nava Farmer, individually and as husband and wife	NPAR, LLC	18.0%	815/401
					Chevron U.S.A., Inc.		827/26 <del>9</del>
					Chesapeake Appalachia, L.L.C.		867/713
					SWN Production Company, L.L.C.		883/623
17) 3-L11-17.1	Earl P. Farmer, Jr.	15.780	1-385471-000	Earl P. Farmer, Jr. a/k/a Earl Farmer, Jr. and Heather Nave Farmer, Individually and as husband and wife	NPAR, LLC	18.0%	815/401
					Chevran U.S.A., Inc.		827/269
					Chesapeake Appalachia, L.L.C.		867/713
					SWN Production Company, LLC.		883/623









PO Box 1300 Jane Lew, WV 26378 PHONE: (832) 796-1610

4706900194

March 26, 2015

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

RE: SWN's proposed G W Rentals LLC OHI 205H in Ohio County, West Virginia, Drilling under McGraws Run Road and National 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 McGraws Run Road and National Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

Robert Walter SR Landman Southwestern Energy Production Company, LLC PO Box 1300 Jane Lew, WV 26378

Received

AUG 1 4 2015

Office of Oll and Gas

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

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

	ce Certification: 8/13/15	W-II D- J	s Well No. G W Rentals LLC OHI 205H
Notice has	been given:	Weitrau	quired parties with the Notice Forms listed
Pursuant to the	ne provisions in West Virginia Code	§ 22-6A, the Operator has provided the re-	quired parties with the Notice Forms listed
State:	WV	Facting	537039.0
County:	69- Ohio	UTM NAD 83 Lasting.	4436098.3
District:	3-Liberty	Public Road Access:	West Alexander Road
Quadrangle:	648- Valley Grove	Generally used farm name:	G W Rentals LLC
Watershed:	Little Wheeling Creek		
prescribed by it has provid- information r	the secretary, shall be verified and s ed the owners of the surface describ equired by subsections (b) and (c), se	shall contain the following information: (1) bed in subdivisions (1), (2) and (4), sub- ection sixteen of this article; (ii) that the re	is section shall be on a form as may be 4) A certification from the operator that (i) section (b), section ten of this article, the quirement was deemed satisfied as a result ten of this article six-a; or (iii) the notice

requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten

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

Required Attachments:

of this article have been completed by the applicant.

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

WV Dept. of Environ

#### Certification of Notice is hereby given:

THEREFORE, I have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Well Operator: SWN Production Co., LLC P.O. Box 12359 By: Dee Scutha Spring, TX 77391-4954 Its: 304-471-2497 Regulatory Supervisor Facsimile: Telephone: 832-796-1614 Email: Dee\_Southal@swn.com The Lablic, State of West Virgin BRITTANY R WOODY 3302 Old Elkina Road Buckhannon, WV 26201 mission expires Hovembar 27. Notary Public

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 denprivacyofficer@wv.gov.

API NO. 47- 69

OPERATOR WELL NO. GWRentals LLC OHI 205H Well Pad Name: GWRentals LLC OHI Pad

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

Notice Time Requirement: notice shall be provided no	
Date of Notice: 8/13/15 Date Permit Application Fil	ed: Ale/s 4706900194
	ea: 0/18/18
Notice of:	
☑ PERMIT FOR ANY ☐ CERTIFICATE OF	OF APPROVAL FOR THE
	ON OF AN IMPOUNDMENT OR PIT
WELL WORK CONSTRUCTION	ON OF AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22	2-6A-10(b)
☐ PERSONAL ☑ REGISTERED ☐	METHOD OF DELIVERY THAT REQUIRES A
SERVICE MAIL	RECEIPT OR SIGNATURE CONFIRMATION
SERVICE MAIL	RECEIFT OR SIGNATURE CONFIRMATION
oil and gas leasehold being developed by the proposed well described in the erosion and sediment control plan submitted operator or lessee, in the event the tract of land on which the more coal seams; (4) The owners of record of the surface tract well work, if the surface tract is to be used for the placement impoundment or pit as described in section nine of this article have a water well, spring or water supply source located with provide water for consumption by humans or domestic animproposed well work activity is to take place. (c)(1) If more the subsection (b) of this section hold interests in the lands, the records of the sheriff required to be maintained pursuant to supprovision of this article to the contrary, notice to a lien holds.	be located; (2) The owners of record of the surface tract or tracts overlying the work, if the surface tract is to be used for roads or other land disturbance as d pursuant to subsection (c), section seven of this article; (3) The coal owner, e well proposed to be drilled is located [sic] is known to be underlain by one or act or tracts overlying the oil and gas leasehold being developed by the proposed t, construction, enlargement, alteration, repair, removal or abandonment of any ele; (5) Any surface owner or water purveyor who is known to the applicant to hin one thousand five hundred feet of the center of the well pad which is used to hals; and (6) The operator of any natural gas storage field within which the han three tenants in common or other co-owners of interests described in applicant may serve the documents required upon the person described in the section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any er is not notice to a landowner, unless the lien holder is the landowner. W. Va. Il also provide the Well Site Safety Plan ("WSSP") to the surface owner and any testing as provided in section 15 of this rule.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan	Notice ☑ Well Plat Notice is hereby provided to:
SURFACE OWNER(s)	☑ COAL OWNER OR LESSEE
Name: G W Rentals LLC	Name: Alliance Resource GP, LLC %Christine St. John
Address: 2084 National Road	Address: 2596 Battle Run Road
Wheeling, WV 26003	Triadelphia, WV 26059
Name:	COAL OPERATOR
Address:	Name:
SURFACE OWNER(s) (Road and/or Other Disturbance	Address:
	SURFACE OWNER OF WATER WELL
Name:Address:	AND/OR WATER PURVEYOR(s)
	Name: "See Attachment #1
Name:	Address:
Address:	
970700	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	
Name:	Name: Raceived
Address:	
	*Please attach additional forms if necessary  AUG 1 4 2015
	110.0

#### G W Rentals LLC OHI Water Purveyors

Name		Address	City	State	Zlp
G W Rentals LLC		2084 National Road x2	Wheeling	wv	26003
Windmill Truckers Center, INC.		2084 National Road x3	Wheeling	wv	26003
James & Barbara Johnson		629 West Alexander Road x2	Valley Grove	wv	26060
JVB Restaurant Enterprises, LLC		3 Pavilack Ct.	Wheeling	wv	26003
Robert Edward Lee & Samuel Lee Harri	s, Jr. 🖊	100 Circile Drive x2	Wheeling	wv	26003
Jack E. Corbitt, Jr.		33 Hubbard Lane	Wheeling	wv	26003
Robert J. McConnell		824 West Alexander Road	Valley Grove	wv	26060
Gary W. Glessner		P.O. Box 128	Valley Grove	wv	26060
Robert K. & V J Scott		858 West Alexander Road	Valley Grove	wv	26060
RXI Plastic INC C/O Silgan Plastics Corp-	Pratt /	14515 N. Outer 40 Suite 210	Chesterfield	МО	63017
<u> </u>		4			

Ø 47069004 Attachment # 1

Office of Oil and Gas V/V Dept. of Sevironitarial Protection

API NO. 47-69

OPERATOR WELL NO. GWRentals LLC OHI 205H Well Pad Name: GWRentals LLC 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 afternoit 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

#### 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. 47-69
OPERATOR WELL NO. GWRGHUSE LLC OHI 2004
Well Pad Name: GWRGHUSE LLC 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:

47069004

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

#### Water Testing Laboratories:

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

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

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

#### Written Comment:

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

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

Received

AUG 1 4 2015

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.

Office of Officiand Gas

OPERATOR WELL NO. GWRentals LLC CHI 205H Well Pad Name: GW Rentals LLC 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.

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

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

Received

AUG 1 4 2015

WW-6A (8-13)	API NO. 47- 69
(6-15)	OPERATOR WELL NO. GWRANNA LLE CHA SCOM
	Well Pad Name: GWRentota LLC OHI Pad
Notice is hereby given by:	
Well Operator: SWN Production Co., LLC	Address; P.O. Box 1300
Telephone: 304-884-1813	Jone Low, WV 28378
Email: Des Scurrat@swn.com	Facsimile: 304-471-2497

Oil and Gas Privacy Notice:

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 deportive volume and provided the privacy officer at deportive volume.

OFFICIAL REAL
Notary Public, State of West Virginia
BRITTANY R WOODY
3902 Old Ellions Road
Buckbannon, WY 20201
by compission egyres November 27, 2022

WW-6A4 (1/12) Operator Well No. GW Rentals OHI 205H

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

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

			1
Notice Time Date of Noti		provided at least TEN (10) days prior to filiped Date Permit Application Filed:	permit application.
Delivery me	hod pursuant to West Virgi	ia Code § 22-6A-16(b)	
☐ HAND	■ CERTIFIED	/AII	
DELIVI		CEIPT REQUESTED	
Pursuant to V receipt reque: drilling a hor of this subsec- subsection m and if availab Notice is he Name: GW Rer Address: 2084 Wheeling, WV 26	7. Va. Code § 22-6A-16(b), a sted or hand delivery, give the izontal well: <i>Provided</i> , That tion as of the date the notice by be waived in writing by the le, facsimile number and electropy provided to the SUR tals LLC	least ten days prior to filing a permit application, surface owner notice of its intent to enter upon the otice given pursuant to subsection (a), section to as provided to the surface owner: <i>Provided, how</i> surface owner. The notice, if required, shall include onic mail address of the operator and the operator	the surface owner's land for the purpose of the of this article satisfies the requirements of this article satisfies the requirements of this ude the name, address, telephone number, or's authorized representative.  AUG 14 2015
Pursuant to V	Vest Virginia Code § 22-6A-1	(b), notice is hereby given that the undersigned brilling a horizontal well on the tract of land as for Easting:	
County:	Ohio	UTM NAD 83 Northing:	4436098.3
District:	Tridelphia	Public Road Access:	West Alexander Road
Quadrangle:	Valley Grove	Generally used farm name:	GW Rentals
Watershed:	Upper Ohio South		
Lee Lie to	Shall Include:	16(b), this notice shall include the name, addi	
Pursuant to Tacsimile nur	West Virginia Code § 22-6A nber and electronic mail add rizontal drilling may be obtai	ess of the operator and the operator's authorized from the Secretary, at the WV Department of V 25304 (304-926-0450) or by visiting <a href="https://www.de&lt;/td&gt;&lt;td&gt;ed representative. Additional information f Environmental Protection headquarters,&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Pursuant to Tacsimile nurelated to hoo ocated at 60&lt;/td&gt;&lt;td&gt;West Virginia Code § 22-6A&lt;br&gt;nber and electronic mail add&lt;br&gt;izontal drilling may be obtai&lt;br&gt;57&lt;sup&gt;th&lt;/sup&gt; Street, SE, Charleston, V&lt;br&gt;reby given by:&lt;/td&gt;&lt;td&gt;ess of the operator and the operator's authorized from the Secretary, at the WV Department of V 25304 (304-926-0450) or by visiting &lt;a href=" https:="" td="" www.de<=""><td>ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.</td></a>	ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to Pacsimile number to the control of the	West Virginia Code § 22-6A nber and electronic mail add izontal drilling may be obtai 57 <sup>th</sup> Street, SE, Charleston, V	ess of the operator and the operator's authorized from the Secretary, at the WV Department of V 25304 (304-926-0450) or by visiting <a href="https://www.deg.authorized">www.deg.authorized</a> Representative:	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  Steve Perkins
Pursuant to Parsuant to Parsua	West Virginia Code § 22-6A nber and electronic mail add izontal drilling may be obtai 57 <sup>th</sup> Street, SE, Charleston, V reby given by: r: SWN Production Company, LLC 179 Innovation Drive	ess of the operator and the operator's authorized from the Secretary, at the WV Department of V 25304 (304-926-0450) or by visiting	

Oil and Gas Privacy Notice:

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

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

Delivery	y metho	d pursuant t	Wes	Virginia	Code §	22-6A-16(c)		1	- /	1 6	0	0	n 4	0 /
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K	ETUKIN	KECEIF I K	CQUE	SIED		DELIVERT								
return re the plan required drilling damages (d) The of notice	eceipt re ned ope to be pr of a hor s to the s notices	quested or ha eration. The rovided by su rizontal well; surface affecte required by th	nd deli notice osection and (3 ed by on is sect	very, give required in (b), sect ) A propo- il and gas ion shall b	the surf by this s ion ten cosed surf operation on given	n the date for filing ace owner whose lar ubsection shall include this article to a surface use and compered to the extent the country to the surface owner	d will be used for ide: (1) A copy face owner who isation agreement amages are com	or the drilling of this coose land will not containing pensable up	de se be u ig an	f a ho ection used offe artic	orizon; (2) in con er of le six	ntal v The njunc comp -b of	infor tion w ensat this c	mation with the ion fo hapter
		y provided to isted in the red				R(s) time of notice);								
	M Dontole	IIC.				3.7								
Name: G	IVV Rentais	LLO				Name:						_		
Address:	2084 Na	tional Road	- 1	/		Addre						_		
Address: Wheeling, Notice is Pursuant	2084 Na WV 26003 s hereby	y given: t Virginia Co					he undersigned					ed a	planne	ed
Notice is Pursuant operation State: County:	s hereby to West on the	y given: t Virginia Co				Addre	the undersigned al well on the tra Easting: Northing:		is fol	llows		ed a	planne	ed
Notice is Pursuant operation State: County: District:	s hereby to Wes	y given: st Virginia Co e surface own vest Virginia				is hereby given that of drilling a horizont UTM NAD Public Road	the undersigned al well on the tra Easting: Northing:	537039.0 4436098.3	is fol	llows		ed a	planne	ed
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Address: Wheeling.  Notice is Pursuant operation State: County: District: Quadran Watersh  This No Pursuant to be proportion to be proportional to the proportion of the propo	s hereby to Wes n on the One of the Shat to Wes ovided al well; affected ion relates, logs/defau	y given: at Virginia Code surface own dest Virginia delphia delphia delley Grove pper Ohio South all Include: at Virginia Code by W. Va. Code and (3) A product of the code of	de § 22 de § 22 de § posed is open atal dr 57 <sup>th</sup> S	2-6A-16(c 22-6A-10(surface usations to illing may treet, SE,	), this no (b) to a se and co the exten	is hereby given that of drilling a horizont  UTM NAD  Public Road Generally us  otice shall include: (surface owner whose ompensation agreement the damages are called from the Secretary	the undersigned al well on the tra Easting: Northing: Access: sed farm name:  OA copy of this e land will be understand and will be not containing an empensable understary, at the WV	code sections of the property	on; (2 njunc ompe ix-b	2) The tion ensate of the	e info with ion fo his ch	orma the or da napter ments	tion redrillin	equirec ng of a s to the litiona tection
Notice is Pursuant operation State: County: District: Quadran Watershirt No Pursuant to be prhorizont surface a informat headquarent watership with the property of the proper	s hereby to Wes n on the  gel: v  ed: v  tice Sha to Wes ovided al well; affected ion rela rters, lo es/defau	y given:  tt Virginia Code surface own  //est Virginia  Dhio  ridelphia  alley Grove  pper Ohio South  All Include:  tt Virginia Code  by W. Va. Code  and (3) A product of the code of th	de § 22 de § 22 de § posed is open atal dr 57 <sup>th</sup> S	2-6A-16(c 22-6A-10(surface usations to illing may treet, SE,	), this no (b) to a se and co the exten	is hereby given that of drilling a horizont  UTM NAD  Public Road Generally us  otice shall include: ( surface owner whose ompensation agreement the damages are of t	the undersigned al well on the tra Easting: Northing: Access: sed farm name:  Acopy of this e land will be ent containing arompensable undertary, at the WV (304-926-0450)	code section of core of code section offer of code article section or by vis	on; (2 njunc ompe ix-b	2) The tion ensate of the	e info with ion fo his ch	orma the or da napter ments	tion redrillin	equired ing of a s to the litional tection

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.

AUG 1 4 2015



#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

## **Division of Highways**

Earl Ray Tomblin Governor

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

Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

April 24, 2015

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

4706900194

Subject: DOH Permit for the GW Rentals Well Pad Site, Ohio County

G W Rentals LLC OHI 205H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit 06-2013-0030 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Ohio County Route 41/3 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,

Lary K. Clayton

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

Cc: Brittany Woody

Southwestern Energy CH, OM, D-6

File

09/25/2015

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
			Ethanol	000064-17-5
NALCO	EC6110A	Biocide	Glutaraldehyde (Pentanediol)	000111-30-8
ONESOURCE			Quaternary Ammonium Compounds	N/A-063
	EC6629A	Biocide	No Hazardous Components	NONE
	WBK-133 OXIDIZER	Breaker	Ammonium Persulfate	007727-54-0
			Ammonium Persulfate	007727-54-0
	WBK-134	Breaker	Crystalline Silica (Quartz Sand, Silicon Dioxide)	074808-60-7
		Ole Ole Liller	Proprietary Non Hazardous Salt	N/A-229
	WCS-631LC	Clay Stabilizer	Water	007732-18-5
	WFR-55LA	Friction Reducer	No Hazardous Components	NONE
	WGA-15L	Gel	Petroleum Distillate Hydrotreated Light	064742-47-8
WEATHERFORD			Potassium Carbonate	000584-08-7
Me (mem eme	WPB-584-L	Buffer	Potassium Hydroxide	001310-58-3
	WXL-101LE	Corsslinker	No Hazardous Components	NONE
	WXL-101LM	Crosslinker	Petroleum Distillate Hydrotreated Light	064742-47-8
			Water	007732-18-5
			Ethylene Glycol	000107-21-1
	WXL-105L	Crosslinker	Boric Acid	010043-35-3
			Ethanolamine	000141-43-5
	B244 Green-Cide 25G	Biocide	Glutaraldehyde	111-30-8
	L071 Temporary Clay Stabilizer	Clay Stabilizer	Cholinium Chloride	67-48-1
	Breaker J218		Diammonium Peroxidisulphate	7727-54-0
SCHLUMBERGER	EB-Clean* J475 Breaker	Breaker	Diammonium Peroxidisulphate	7727-54-0
SCHLUMBERGER	MBERGER EB-Clean* J475 Breaker Friction Reducer B315		Distillates (petroleum), Hydrotreated light Aliphatic Alcohol Glycol Ether	64742-47-8 Proprietary
	Friction Reducer J609	Reducer	Ammonium Sulfate	7783-20-2

00194

Received

AUG 1 4 2015

Qiffice of Oil and Gas
NY Dirjn of Environmental Protection

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number	
	Water Gelling Agent J580	Gel	Carbohydrate Polymer	Proprietary	
	Scale Inhibitor B317	Scale Inhibitor	Trisodium ortho phosphate Ethane-1, 2-diol	7601-54-9 107-21-1	
SCHLUMBERGER	Borate Crosslinker J532	Occasilator	Aliphatic polyol Sodium tetraborate decahydrate	Proprietary 1303 96-4	
	Crosslinker J610	Crosslinker	Aliphatic polyol Potassium hydroxide	Proprietary 1310 58-3	

4706900194



AUG 1 4 2015

Office of Oil and Gas //V Dej.l. of Environmental Protection

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
BAKER HUGHES	ALPHA 1427	Biocide	Didecyl Dimethyl Ammonium Chloride	007173-51-1
			Ethanol	000064-17-5
			Glutaraldehyde (Pentanediol)	000111-30-8
			Quaternary Ammonium Compound	068424-85-1
			Water	007732-18-5
	BF-7L	Buffer	Potassium Carbonate	000584-08-7
	ClayCare	Clay Stabilizer	Choline Chloride	000067-48-1
			Water	007732-18-5
	Enzyme G-I	Breaker	No Hazardous Components	NONE
	ENZYME G-NE	Breaker	No Hazardous Components	NONE
	FRW-18	Friction Reducer	Petroleum Distillate Hydrotreated Light	064742-47-8
	GW-3LDF	Gel	Petroleum Distillate Blend	N/A-014
			Polysaccharide Blend	N/A-021
	SCALETROL 720	Scale Inhibitor	Diethylene Glycol	000111-46-6
			Ethylene Glycol	000107-21-1
	XLW-32	Crosslinker	Boric Acid	9010043-35-3
			Methanol (Methyl Alcohol)	000007-56-
FRAC TECH SERVICES	APB01 (AMMONIUM PERSUFATE BREAKER)	Breaker	Ammonium Persulfate	007727-54-0
	B05 (LOW PH BUFFER)	Buffer	Acetic acid	000064-19-
	BXL03 Borate XL Delayed High Temp	Crosslinker	No Hazardous Components	NONE
	FRW-200	Friction Reducer	No Hazardous Components	NONE
	HVG01 (TURQUOISE-1 BULK)	Gelling Agent	Petroleum Distillate Hydrotreated Light	064742-47-
	KCLS-4	Clay Stabilizer	No Hazardous Components	NONE
	LTB-1	Breaker	Ammonium Persulfate	N/A



AUG 1 4 2015

# WEST VIRGINIA 811

TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-245-4848

WV ONE CALL SERIAL #: 1213740331

**OWNER** 



SWN PRODUCTION CO., LLC. P.O. BOX 1300 JANE LEW, WV 26378 (832)-795-1610 G. W. RENTALS LLC OHI PAD "A"
AS-BUILT & RECLAMATION PLAN
TRIADELPHIA DISTRICT, OHIO COUNTY, WV
MARCH 2015

BOORD BENCHEK & ASSOCIATES, INC.
ENGINEERING SURVEYING CONSTRUCTION AND MINING SERVICE

OF THE PROPERTY OF T

ENGINEERING, SURVEYING, CONSTRUCTION AND MINING SERVICES SOUTHPOINTE, PA 15317 PHONE: 724-746-1055

PLANS PREPARED BY:

SHEET INDEX
1. TITLE SHEET
2-3. EVACUATION ROUTE/PREVAILING
WINDS
4. AS-BUILT OVERVIEW
5-6. AS-BUILT
7. ACCESS ROAD PROFILE
8. RECLAMATION PLAN OVERVIEW
9-10. RECLAMATION PLAN
11-12. DETAILS

TOTAL DISTURBED AREA: 10.8 AC.
ROAD DISTURBED AREA: 3.9 AC.
WELL PAD DISTURBED AREA: 6.9 AC

LENGTH OF ACCESS ROAD: 1,007' AVG. WIDTH OF ACCESS ROAD: 15' WELL PAD ELEVATION: 1247' API# 6900166 API# 6900173 API# 6900193 API# 6900194 API# 6900195 API# 6900196

SHEET

OF

12

ANDREW BENCHEK

P.E.

ANDREW BENCHEK

DATE



WVDEP OOG

ACCEPTED AS-BUILT

9/17/2015

COORDINATES

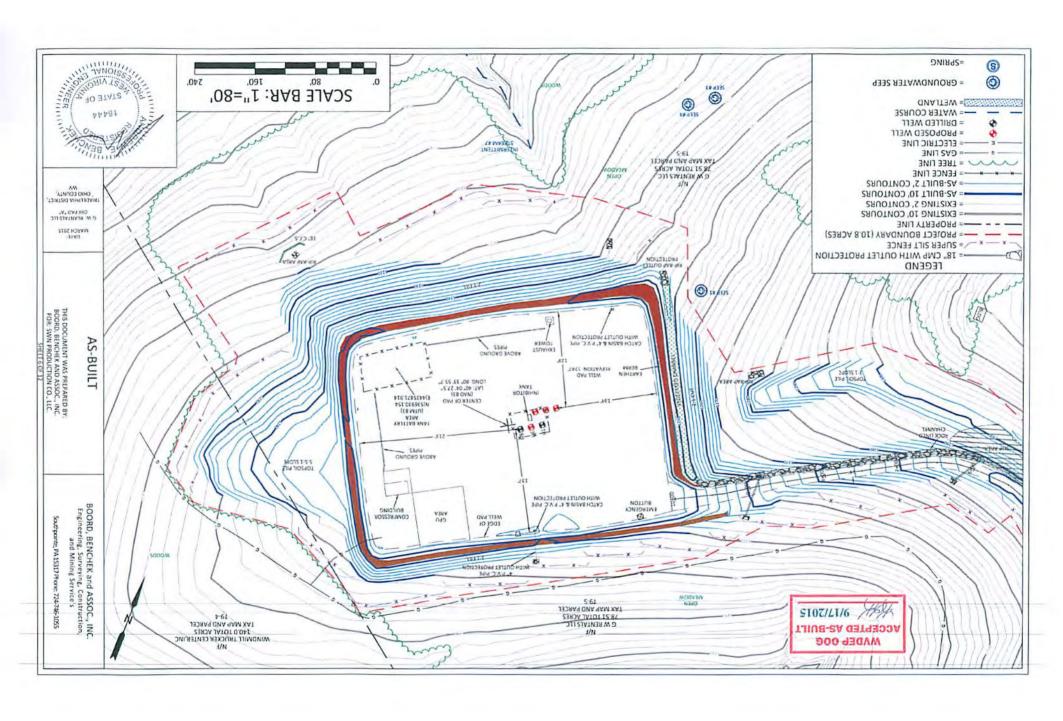
CENTER OF WELLS
(NAD 83)
LAT: 40° 04' 27.5"
LONG: 80° 33' 56.3"
(NAD 27)
LAT: 40° 04' 27.2"
LONG: 80° 33' 57.0"

SITE ENTRANCE
(NAD 83)
LAT: 40° 04' 25.7"
LONG: 80° 33' 44.0"

-15-51

LONG: 80° 33' 44.0"

1"=1000' 1000' 2000' 3000'



#### WEST VIRGINIA COUNTY MAP

TRIADELPHIA DISTRICT, OHIO COUNTY.

#### PROJECT CONTACTS

#### SOUTHWESTERN ENERGY

Tom Chambers - Facilities Engineer 501-548-3753

John Angiulli, Field Regulatory Specialist 304-884-1644

Jimmy Johnson, Construction Superintendent 304-997-9403

#### ENGINEER & SURVEYOR

Anthony Baumgard, PE Triple H Enterprises 304-873-3260

Darrell Boice, PS Triple H Enterprises 304-873-3260



ANTHONY BAUMGARD, P.E. NO. WV 14049

AGSS Utility of West Virginia 1-800-245-4248 1-800-265-4248
West Verpition State Lew
(Section XXV: Chapter 24-C)
tyou self free bestimes days before you dig in
the state of West Verpition
IT STEE LAWT!



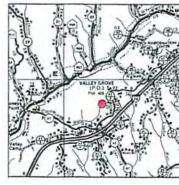
Ollica of Oil and

#### G.W. RENTALS LLC -OHI AS-BUILT

#### AS-BUILT/PRODUCTION PLAN TRIADELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA SOUTHWESTERN ENERGY

USGS VALLEY GROVE, WV QUAD MAP





TRIADELPHIA DISTRICT, OHIO COUNTY. WEST VIRGINIA

> WVDOH COUNTY ROAD MAP PROJECT LOCATION SCALE: N.T.S.

WEST VIRGINIA STATE PLANE COORDINATE SYSTEM NORTH ZONE NADRI ELEVATIONE BASED ON NAVIOR
ESTABLISHED BY SURVEY GRADE GPS & GPUS



#### DRAWING INDEX

01 - COVER SHEET

02-03 - EVACUATION SHEETS

04 - PLAN SHEET

ACCESS ROAD PROFILE SHEET

DETAIL SHEET

AS-BUILT CERTIFICATION.
THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL, OFFICE OF OIL AND GAS CRS 35-8.

- NOTES:

  1. THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATING TO THE FINAL GRADING OF THE DISTURBED AREA AS OF FILY 22, 2013.
  TRIPLE H ENTERPRISES IS NOT RESPONSIBLE FOR ANY CHANGES MADE TO THE SITE AFTER THE ABOVE MENTIONED DATE.
- 2. THE EXISTING CONTAINMENT BERM AROUND THE WELL PAD SHALL BE REPAIRED. AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO
- THE EXISTING EORESS TO THE WELL PAD SHALL HAVE THE MOUNTABLE BERMS REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR

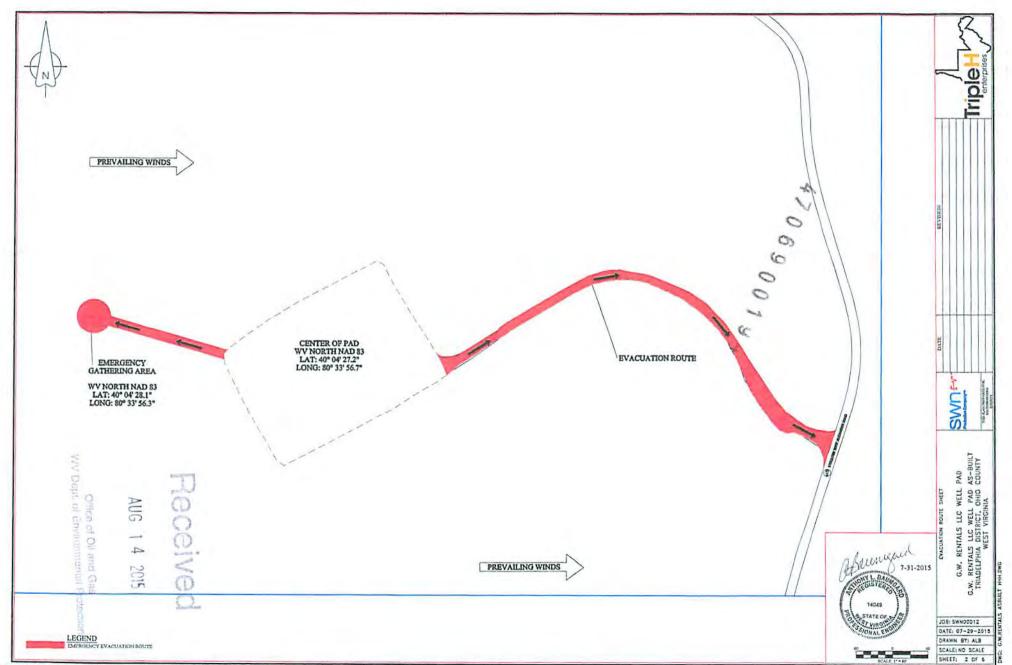
PAD AS-E

WELL PAD OHIO WELL WELL CRIECT, CARREIN CARREIN ALS LLC WHIA DISTRI G.W. G.W.

21000NW2:80L DATE: 07-29-2015 DRAWN BY: ALB SCALE: NO SCALE SHEET: 1 OF 6

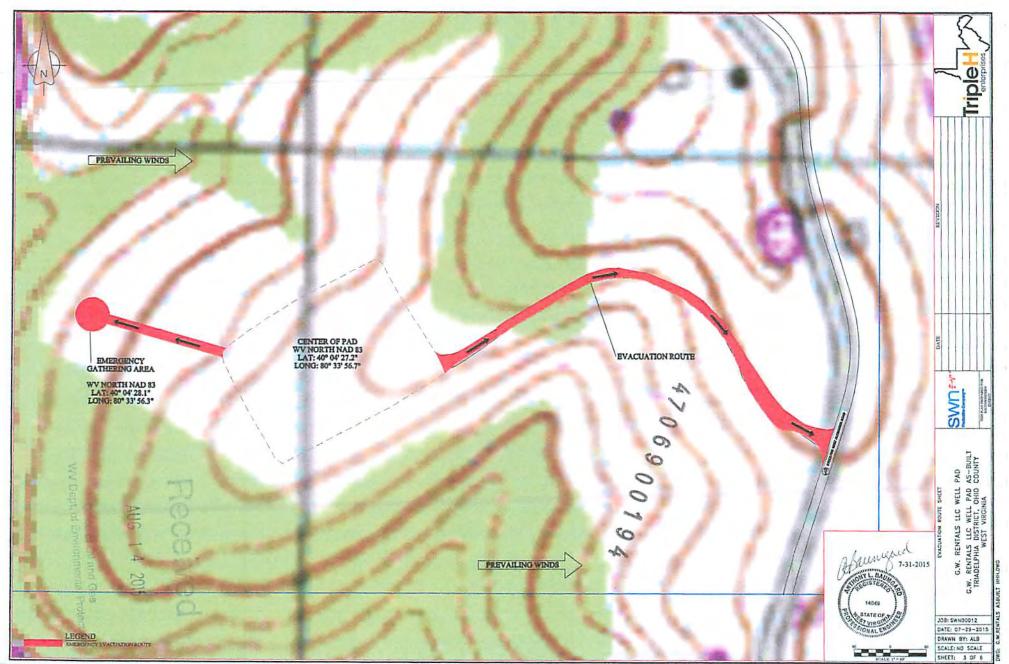
\\HHHFILESERVER\Engineering\PROJECTS\SOUTHWESTERN\GW RENTALS\AS\_BUILTS HHH\G.W.RENTALS ASBUILT HHH.dwg, 7/31/2015 2:31:21 PM

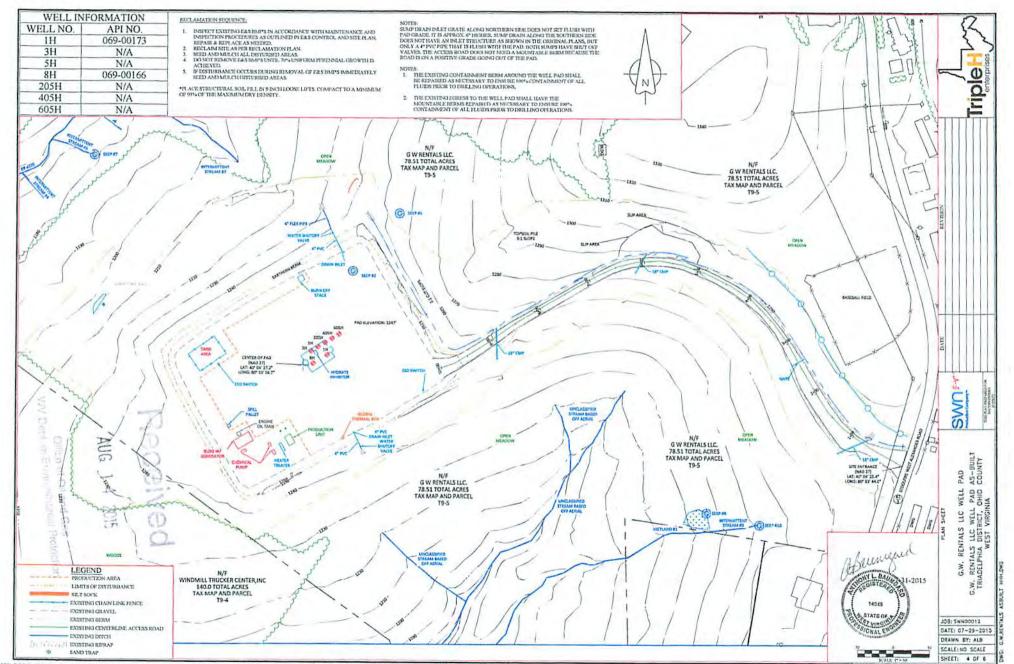
a. Ble 8.10.15

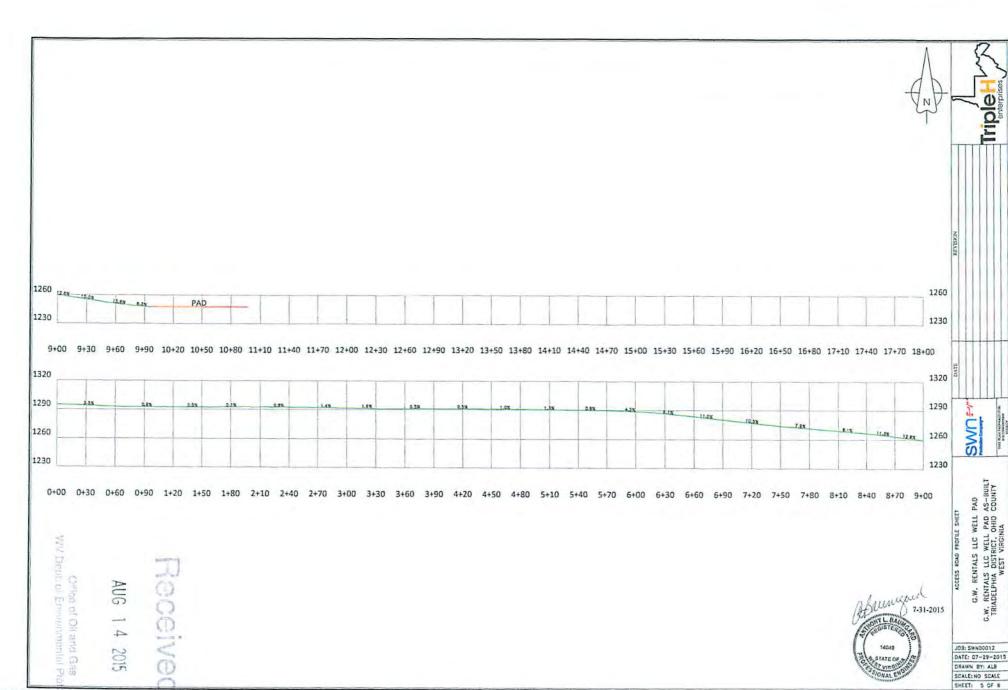


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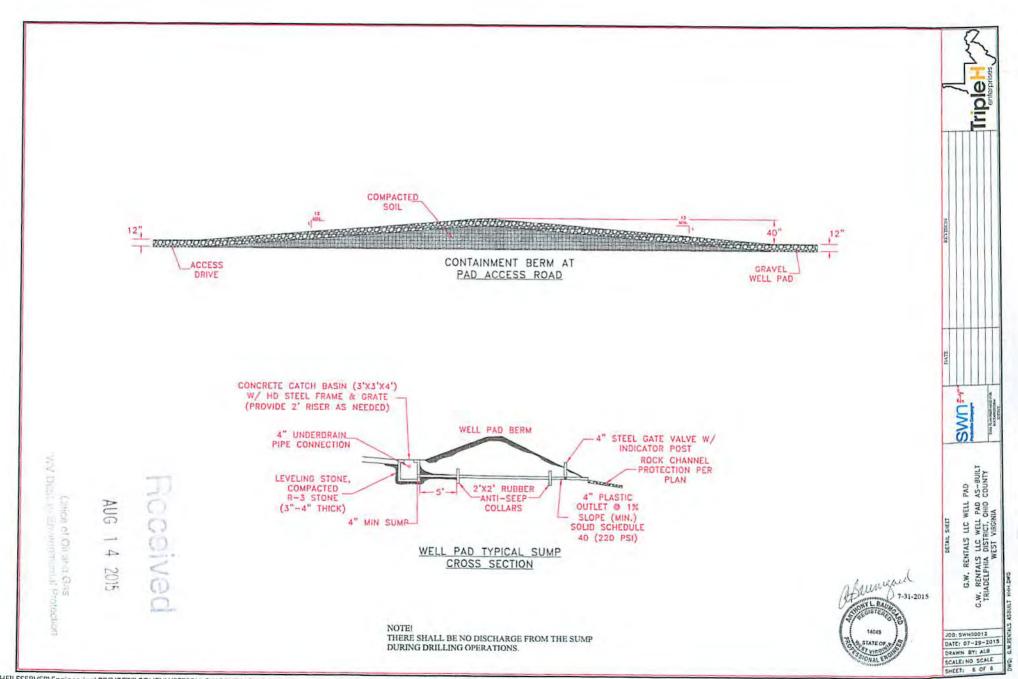
E. Der 8.10.15







E. Bl.O.



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