



**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**

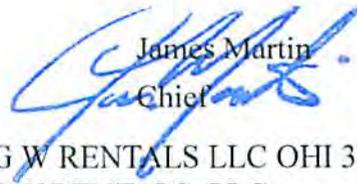
**Horizontal 6A Well**

This permit, API Well Number: 47-6900193, 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.

  
James Martin  
Chief

Operator's Well No: G W RENTALS LLC OHI 3H  
Farm Name: GW RENTALS, LLC.

**API Well Number: 47-6900193**

**Permit Type: Horizontal 6A Well**

Date Issued: 09/21/2015

# PERMIT CONDITIONS 4706900193

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

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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](mailto:DEPOOGNotify@wv.gov) within 30 days of commencement of drilling.

# SWN

Southwestern Energy®

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

August 13, 2015

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

4706900193

**RE:** Proposed New Well G W Rentals LLC OHI 3H, G W Rentals LLC OHI 5H, G W Rentals LLC OHI 205H, G W Rentals LLC OHI 405H

Dear Ms. Adkins

Enclosed please find the Well Work Permit Applications for the above captioned wells. These wells are situated on the G W Rentals' property, in Triadelphia District, Ohio County, West Virginia.

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

Thank you.

Sincerely,



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

Received

AUG 14 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection



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

09/25/2015

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

- 1) Well Operator: SWN Production Co., LLC 494512924 69- Ohio 7-Triadel 648- Valley Grove  
Operator ID County District Quadrangle
- 2) Operator's Well Number: G W Rentals LLC OHI 3H Well Pad Name: G W Rentals LLC OHI Pad
- 3) Farm Name/Surface Owner: G W Rentals LLC Public Road Access: West Alexander Road
- 4) Elevation, current ground: 1246' Elevation, proposed post-construction: 1246'
- 5) Well Type (a) Gas  Oil  Underground Storage   
Other   
(b) If Gas Shallow  Deep   
Horizontal
- 6) Existing Pad: Yes or No yes
- 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):  
Target Formation- Marcellus, Target Top TVD- 6494', Target Base TVD- 6511', Anticipated Thickness- 17', Associated Pressure- 3900'
- 8) Proposed Total Vertical Depth: 6501'
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: 13,705'
- 11) Proposed Horizontal Leg Length: 6664'
- 12) Approximate Fresh Water Strata Depths: 510'
- 13) Method to Determine Fresh Water Depths: from nearby water wells and offset wells
- 14) Approximate Saltwater Depths: 1339'
- 15) Approximate Coal Seam Depths: 606'-629'
- 16) Approximate Depth to Possible Void (coal mine, karst, other): Void Expected from approximately 606'-629'
- 17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes  No
- (a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

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WV Department of  
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GCS  
9/21/15

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#	13,705'	13,705'	Load 982 or 10 1022 44100 10000
Tubing	2 3/8"	New	P-110	4.7#	Approx. 7041'	Approx. 7041'	
Liners							

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TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (Cu. Ft.)
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							

SEP 18 2015  
Cement Yield  
WV Department of Environmental Protection

**PACKERS**

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

ACS  
9/21/15

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

Drill and stimulate any potential zones between and including the Benson to Marcellus. \*\*If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface. Run casing not less than 20' below void nor more than 50'-70' below void. (\*If freshwater is encountered deeper than anticipated it must be protected, 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 units, 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.

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\*Note: Attach additional sheets as needed.

### Schlumberger Cement Additives

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

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SEP 8

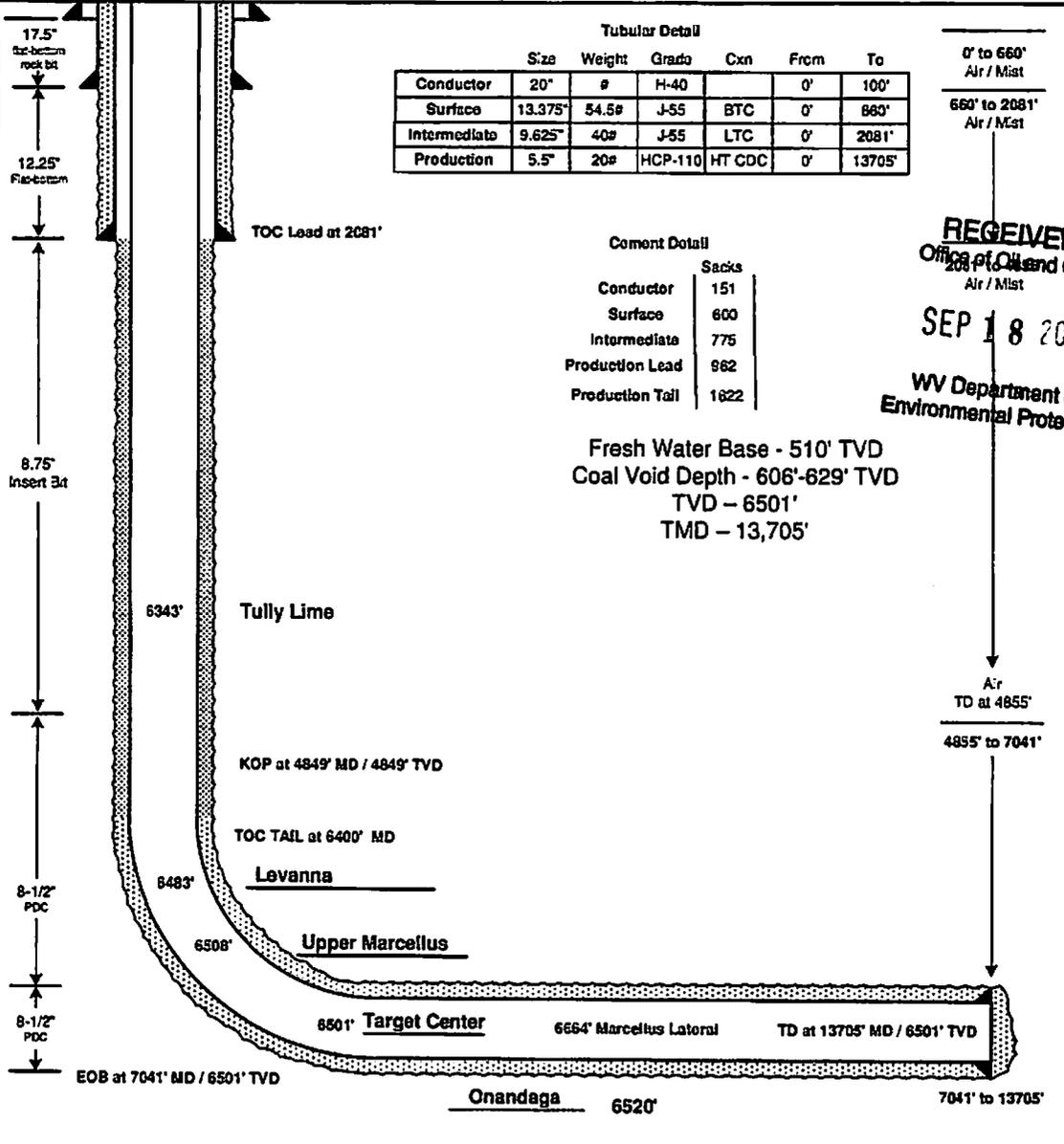
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Environmental Protection

09/25/2015

**Southwestern Energy Company**

**Proposed Drilling Program**

Well : G W RENTALS LLC OHI 3 Re-entry Rig : TBD  
 Field : PANHANDLE FIELD Prospect : PANHANDLE  
 County : OHIO State : WV  
 SHL : 40.074295 Latitude -80.565697 Longitude  
 BHL : 40.09161926 Latitude -80.57702922 Longitude  
 KB Elev : 1273 ft MSL KB : 26 ft AGL GL Elev : 1247 ft MSL



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Data source: K:\EandP\WVD\Team Data\Drilling\Wells\GW Rentals LLC Pad\GW Rentals LLC OHI 3\Drilling Program\Mastor SWN Well Input Sheet v E-0-1.xls

NOTE: This drawing was created for the Re-entry Rig. The depths and lengths shown in the plot are referenced to Re-entry Rig RKB.

WW-9  
(9/13)

API Number 47 - 69 - \_\_\_\_\_  
Operator's Well No. G W Rentals LLC 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) Little Wheeling Creek Quadrangle 648- Valley Grove

Elevation 1246' County 69- Ohio District 7- Triadelphia

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: closed loop system in place at this time- cuttings will be taken to a permitted landfill.

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number 2D0072539/ 2D0413175/ 2D0610306/ 2D0610317 )
- 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 to KOP, fluid drill with SQBM from KOP to TD

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base

Additives to be used in drilling medium? see attached sheets

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)

-Landfill or offsite name/permit number? meadow SWF- 1032, SS Grading SWF- 4902, Northwestern SWF- 1026, Short Creek 1034/WW0109517/CID28726, Carbon Limestone 28726/CID28726  
Arden Landfill 10072, American U2-12954, Country Wide 38390/CID38390, Pine Grove 13688

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) Dee Southall

Company Official Title Regulatory Supervisor

AUG 14 2015

Subscribed and sworn before me this 20th day of April

Brittany R Woody

My commission expires 11/27/22



SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 10.8 Prevegetation pH \_\_\_\_\_

Lime as determined by pH test min. 2 \_\_\_\_\_ Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 600 lbs/acre

Mulch Hay/Straw 2.5 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
White Grove	15
Red Top	15
Orchard Grass	20

Seed Type	lbs/acre
White Grove	15
Red Top	15
Orchard Grass	20

4706900193

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature] [Signature]  
Comments: \_\_\_\_\_

Received

AUG 14 2015

Office of Oil and Gas  
WW Dept. of Environmental Protection

Title: Oil and Gas Inspector

Date: 4/22/15

Field Reviewed? (  ) Yes (  ) No

4706900193

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

SWN Production Co., LLC

47 - 051 -

Well name: G W Rentals LLC OHI 3H  
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: Oil & Gas Inspector

Date:

4/22/15

Approved by:

Date:

Title:

SWN Production Co., LLC – Confidential

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AUG 14 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

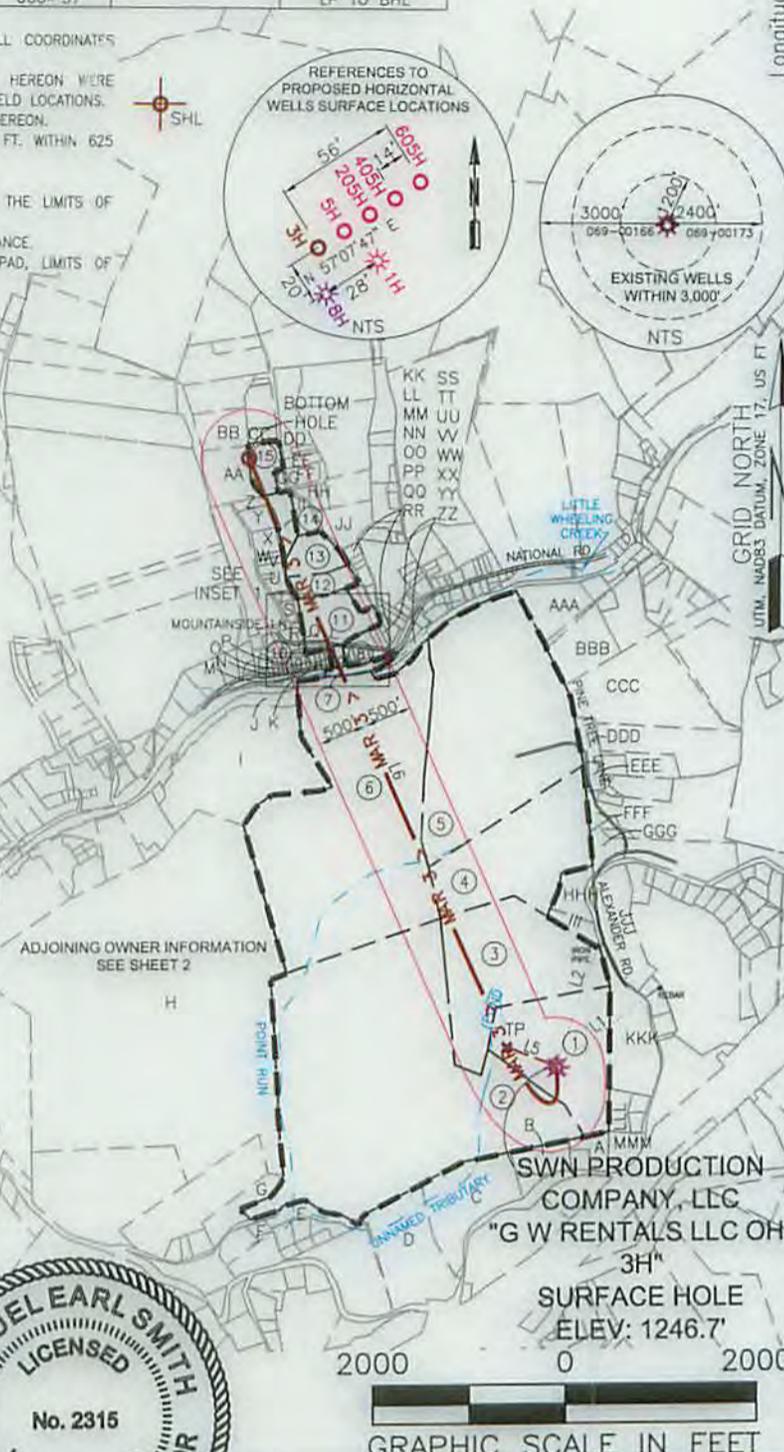
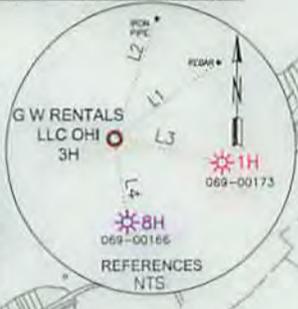
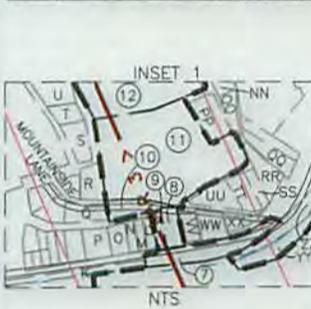
09/25/2015

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 53°41'40" E	1338.51'	SHL TO LANDMARK	5/8" REBAR
L2	N 19°24'54" E	1312.25'	SHL TO LANDMARK	1" IRON PIPE
L3	S 78°35'30" E	27.82'	SHL TO REF. PNT	G W RENTALS LLC OHI 1H WELL HEAD 069-00173
L4	S 09°33'57" E	22.40'	SHL TO REF. PNT	G W RENTALS LLC OHI BH WELL HEAD 069-00166
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L5	N 69°33'41" W	551.8'		SHL TO LP
L6	N 23°44'24" W	6664.57'		LP TO BHL

**NOTES ON SURVEY**

- COORDINATE SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO OCCUPIED DWELLINGS AND AGRICULTURE BUILDINGS GREATER THAN 2500 SQ. FT. WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	GW RENTALS, LLC (S) LEE J GLESSNER & GARY W GLESSNER (R) JAMES Z CHAMBERS (R) JEFFREY S CHAMBERS (R) JUDY LYNN CHAMBERS (R)	6-T9-5.1	27.66
2	WINDMILL TRUCKER CENTER, INC. (S/R)	6-T9-4	140.00
3	G W RENTALS, LLC (S) LEE J GLESSNER & GARY W GLESSNER (R)	6-T9-5.2	38.15
4	G W RENTALS, LLC (S/R)	6-T4-2.2	26.65
5	GARY W GLESSNER AS TRUSTEE OF THE LEE J GLESSNER DYNASTY TRUST (S) LEE J GLESSNER (R)	6-T4-2	86.89
6	BETTY M SINCLAIR (S/R)	3-L14-1.1	99.77
7	JOE VESPA (S/R)	8-VG9-92.1	0.88
8	WENDY PEARSON (S/R)	8-VG9-53	0.43
9	RANDY LEE SUTTON, SR (S/R)	8-VG9-52	0.21
10	PEGGY BALLER EVERLY & CARL J BALLER, JR (S/R)	8-VG9-13	0.29
11	DONN J MORRIS JR & DOLORES A MORRIS (S/R)	8-VG9-23	7.38
12	ROBERT L ETCHISON (S/R)	3-L14A-172	3.09
13	ROBERT L ETCHISON (S/R)	3-L14A-143	4.84
14	ROBERT L ETCHISON (S/R)	3-L14A-63	2.10
15	MICHAEL A ZINK & PATRICIA J ZINK (S/R)	3-L14A-190	3.25



<b>SURFACE HOLE LOCATION (SHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,093.646 EASTING: 537,031.826
<b>LANDING POINT LOCATION (LPL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,152.380 EASTING: 536,874.221
<b>BOTTOM HOLE LOCATION (BHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,438,011.852 EASTING: 536,056.416



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2315 *Samuel Smith*

COMPANY: **SWN** Production Company, LLC

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200  
PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)

G W RENTALS LLC OHI  
OPERATOR'S WELL #: 3H  
API WELL #: 47 69  
STATE COUNTY PERMIT

WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW

WATERSHED: WHEELING CREEK ELEVATION: 1,246.7'

DISTRICT: TRIADDELPHIA COUNTY: OHIO QUADRANGLE: VALLEY GROVE WV.

SURFACE OWNER: GW RENTALS, LLC ACREAGE: ±27.66

OIL & GAS ROYALTY OWNER: LEE J GLESSNER & MARK W GLESSNER, JAMES Z CHAMBERS, JEFFREY S CHAMBERS, & JUDY LYNN CHAMBERS ACREAGE: ±27.66

DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION

CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,501' TMD 13,705' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL  
ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300  
CITY: JANE LEW STATE: WV ZIP CODE: 26378 CITY: JANE LEW STATE: WV ZIP CODE: 26378

<b>LEGEND:</b> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊘ ABANDONED WELL ⊙ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR	--- LEASE BOUNDARY --- 500' DHP BUFFER --- MAR 1 --- MARCELLUS DHP --- ABANDONED PATH	<b>REVISIONS:</b> △ UPDATED SURFACE OWNERS & TVD/TMD, 08-10-2015 △ ADDED ADJACENT PARCELS, 08-14-2015 △ ADDED ADJACENT PARCEL OWNERS, TAX MAP PARCEL NUMBER, & ACREAGE, 09-10-2015	<b>DATE:</b> 09-01-2015 <b>SEE INSET SHEET 2</b> <b>DRAWN BY:</b> S. HUTSON <b>SCALE:</b> 1" = 2000' <b>DRAWING NO:</b> 59088 <b>WELL LOCATION PLAT</b>
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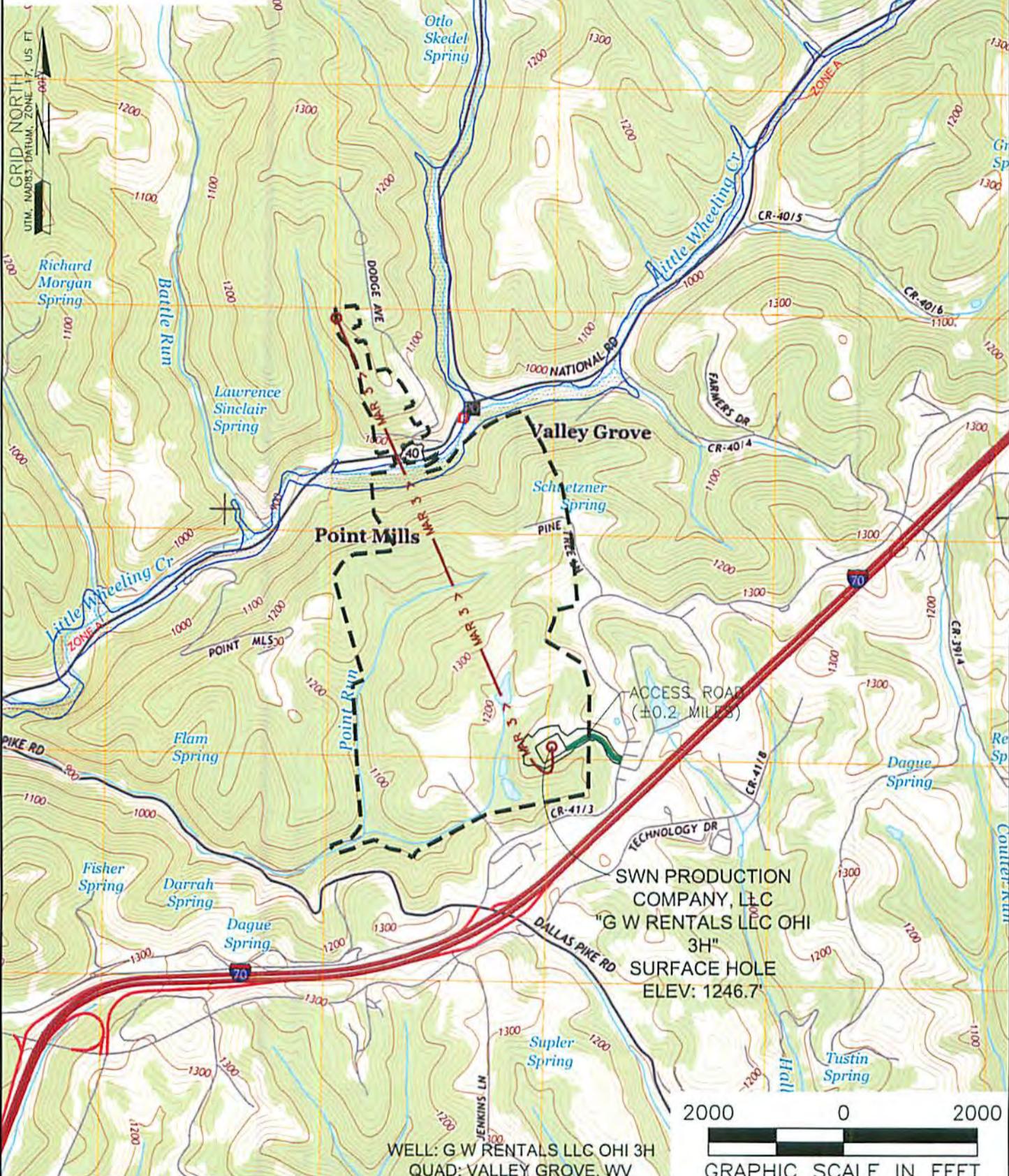
320 O'Bryan Lane • Van Buren, AR 72956  
Office: 479.474.7916 • Fax: 479.474.2450  
Surveying • handa-inc.com

### ADJOINING OWNER INSET

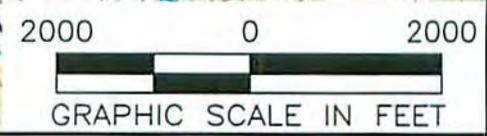
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	BUD & DARL INC	6-T9-6.6	2.31
B	JVB RESTAURANT ENTERPRISES LLC	6-T9-6.5	3.88
C	WINDMILL TRUCKERS CENTER INC	6-T9-36.7	16.00
D	HUNTER REALTY PARTNERS, LLC	6-T9-7	15.81
E	CAROL L. HOWARD	6-T9-2	2.34
F	BILLE JO LONG	6-T9-1.1	0.65
G	RANDAL ALAN HOWARD	6-T8-16	5.68
H	KEVIN S KOSEM & B A KOSEM	6-T3-27	164.00
I	JAMES K GIBSON	8-L14-1	34.49
J	VALLEY GROVE VOLUNTEER FIRE DEPARTMENT, INC.	8-VG9-93	14.80
K	VILLAGE OF VALLEY GROVE	8-VG9-92	0.80
L	RANDY LEE SUTTON SR	8-VG9-50	0.21
M	RANDY LEE SUTTON SR	8-VG9-48	0.21
N	RANDY SUTTON & GRACE SUTTON	8-VG9-46	0.20
O	MILO M MEYER & NORMA J MEYER	8-VG9-44	0.39
P	JOSEPH BRENT PEARSON & WENDY E. PEARSON	8-VG9-34	0.58
Q	GAIL W KAHLE	8-VG9-10	0.52
R	THOMAS J LAPE & SUSAN S LAPE	8-VG9-18	0.48
S	PEGGY BALLER EVERLY & CARL J. EVERLY, JR.	3-L14E-1	0.58
T	ROBERT L ETCHINSON	3-L14A-194	0.38
U	ROBERT L ETCHINSON	3-L14A-196	1.36
V	GAIL W. KAHLE & ANNE M. KAHLE	3-L14A-14	0.37
W	GAIL W. KAHLE & ANNE M. KAHLE	3-L14A-15	0.31
X	ROBERT L ETCHINSON	3-L14A-195	1.46
Y	ROBERT L ETCHINSON	3-L14A-28	1.56
Z	JOHN THOMAS DICK	3-L14A-38	0.72
AA	THELMA R POMPEO & DOMINIC J POMPEO	3-L14A-182	6.26
BB	FRANK PETERS ESTATE	3-L14A-184	4.53
CC	MICHAEL ZINK	3-L14A-83	0.98
DD	JOHN M BORING III & APRIL D BORING	3-L11N-31	4.85
EE	MELVIN KAHLE	3-L14A-118	0.79
FF	MICHAEL A ZINK & PATRICIA J ZINK	3-L14A-192	1.54
GG	MICHAEL A ZINK & PATRICIA ZINK	3-L14A-65	0.38
HH	DAVID E. DAVIS, JR.	3-L14A-129	0.85
II	ROBERT L ETCHINSON	3-L14A-141	1.63
JJ	HAROLD K SAYRE	3-L14A-189	4.39
KK	CHARLES J. SAVAGE	3-L14A-174	0.45
LL	CHARLES J. SAVAGE	3-L11-17	0.59
MM	CHARLES J. SAVAGE	3-L14A-176	0.18
NN	ROBERT L. ETCHISON	3-L14A-193	0.57
OO	CHARLES J. SAVAGE	3-L11-17	0.59
PP	CARL J BALLER JR & B J BALLER	8-VG9-23.1	0.85
QQ	TODD M MAXWELL	8-VG9-76.1	0.40
RR	L&M RENTALS, LLC	8-VG9-76	0.49
SS	REBECCA ANN CORNELL & PARKER ADAM CORNELL	8-VG9-72	0.26
TT	REBECCA ANN CORNELL & PARKER ADAM CORNELL	8-VG9-69	0.52
UU	REBECCA CORNELL & P A CORNELL (INFANT)	8-VG9-66	0.60
VV	WENDY PEARSON	8-VG9-55	0.39
WW	ROSALIE M. EARNEST & GLADYS E. MOORE	8-VG9-59.1	0.45
XX	THOMAS J HOWARD	8-VG9-59	0.30
YY	VALLEY GROVE VOLUNTEER FIRE DEPARTMENT, INC.	8-VG9-94	0.83
ZZ	VALLEY GROVE VOLUNTEER FIRE DEPARTMENT, INC.	8-VG9-93	15.88
AAA	RICHARD K DERROW & ALICIA DERROW	3-L14-3	8.74
BBB	JAMES E LAUDERMILT JR & ASHLEY L LAUDERMILT	3-L14-4	8.62
CCC	WILLIAM E WARD & LOLLYANNE WARD	3-L14-14.4	18.34
DDD	JAMES RICHARD HALL JR & MELLISA RENEE HALL	3-L14-14.14	1.99
EEE	WILLIAM E WARD & L G WARD	3-L14-14.3	1.34
FFF	THOMAS DOEPKEN	3-L14-14	25.00
GGG	LEE J GLESSNER	6-T4-4.5	3.39
HHH	ROBERT B ELLIOTT & KATHY A ELLIOTT	6-T4-4.2	3.71
III	GW RENTALS, LLC	6-T4-4.4	1.22
JJJ	GARY W GLESSNER	6-T4-4.9	9.78
KKK	GW RENTALS, LLC	6-T9-5	13.96
LLL	JAMES W. JOHNSON & BARBARA A. JOHNSON	6-T9-6.7	2.18
MMM	JOANN T MOFFETT	6-T9-6	5.01

09/25/2015

COMPANY:	
<b>SWN</b> Production Company, LLC	<b>SWN</b> <sup>R-V+</sup> <sub>A</sub> Production Company™
REVISIONS:	DATE: 09-01-2015
	INSET FROM SHEET 1
	DRAWN BY: S. HUTSON
	SCALE: N/A
	DRAWING NO: 59088
	WELL LOCATION PLAT



WELL: G W RENTALS LLC OHI 3H  
QUAD: VALLEY GROVE, WV



<b>NAME AND DISTANCE TO THE NEAREST STREAM:</b> AN UNNAMED TRIBUTARY OF POINT RUN IS LOCATED ±0.15 MILES NORTHWEST OF THE CENTER OF THE DRILL PAD.		<b>STREAM CROSSING COORDINATES (NAD 83):</b> NO NEW CROSSINGS.		<b>COMPANY:</b> 	
<b>WELL RESTRICTIONS:</b> WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ FT: >625 FEET		<b>OPERATOR'S</b> G W RENTALS LLC OHI		<b>WELL #:</b> 3H	
<b>FEMA FLOOD INFORMATION:</b> BY GRAPHIC PLOTTING ONLY FEMA FIRM UNINCORPORATED AREA OF OHIO COUNTY, WEST VIRGINIA; MAP NUMBER 54069C0080D; EFFECTIVE JULY 17, 2006.		<b>LOCATION:</b> TRIADELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA		<b>SURFACE HOLE LOCATION:</b> GEOGRAPHIC (NAD83): LATITUDE: 40.074295° LONGITUDE: -80.565697°	
<b>LEGEND:</b> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ● EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR		● EXISTING SPRING ● EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD		<b>BOTTOM HOLE LOCATION:</b> GEOGRAPHIC (NAD83): LATITUDE: 40.091619° LONGITUDE: -80.577029°	
<b>REVISIONS:</b> △ UPDATED SURFACE OWNERS & TVD/TMD, 08-10-2015		<b>DATE:</b> 09-01-2015		<b>DRAWN BY:</b> S. HUTSON	
				<b>SCALE:</b> 1" = 2000'	
				<b>DRAWING NO:</b> 59088	
				<b>TOPOGRAPHIC MAP</b>	

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6A, Section 5(a)(5)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

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

4708900193

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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"SEE EXHIBIT A"

Received

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Office of Oil and Gas  
WV Dept. of Environmental Protection

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

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

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

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

Well Operator: SWN Production Company L.L.C  
 By:   
 Its: Robert Walter, Landman

#	TMP	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
1)	6-T9-5.1	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
			47-003371-01	James Z. Chambers, a/k/a Jimmy Chambers, a married man dealing in his sole and separate property	SWN Production Company, L.L.C. Chesapeake Appalachia, L.L.C.	16.7%	885/470 854/257
			47-003371-02	Jeffrey S. Chambers, a/k/a Jeff Chambers, a married man dealing in his sole and separate property	SWN Production Company, L.L.C. Chesapeake Appalachia, L.L.C.	16.7%	885/440 853/746
			47-003371-03	Judy Lynn Chambers, a/k/a Judy Chambers, a single woman	SWN Production Company, L.L.C. Chesapeake Appalachia, L.L.C.	16.7%	885/440 853/741
					SWN Production Company, L.L.C.		885/440
2)	6-T9-4	10.680	1-265431-000	Windmill Truckers Center, Inc., a West Virginia Corporation	Chesapeake Appalachia, L.L.C.	12.5%	790/202
					SWN Production Company, L.L.C.		885/482
3)	6-T9-5.2	38.150	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
4)	6-T4-2.2	26.646	1-265430-000	GW Rentals, LLC, a West Virginia Corporation	Chesapeake Appalachia, L.L.C.	12.5%	790/210
					SWN Production Company, L.L.C.		885/442
5)	6-T4-2	86.894	1-256015-000	Lee J. Glessner	Chesapeake Appalachia, L.L.C.	12.5%	788/709
					SWN Production Company, L.L.C.		885/470
6)	3-L14-1.1	99.770	47-002200-000	Betty M. Sinclair, a widow, by and through her Attorney-in-Fact, William F. Sinclair	Chesapeake Appalachia, L.L.C.	18.0%	841/219
					SWN Production Company, L.L.C.		885/740
7)	8-VG9-92.1	0.880	47-001899-000	Joe Vespa, a single man	Chesapeake Appalachia, L.L.C.	18.0%	837/416
					SWN Production Company, L.L.C.		885/164
8)	8-VG9-53	0.430	47-001731-000	Wendy Pearson, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	15.0%	836/431
					SWN Production Company, L.L.C.		885/716
9)	8-VG9-52	0.210	47-002216-001	Randy Lee Sutton, Sr., a/k/a Randy Sutton, a single man	Chesapeake Appalachia, L.L.C.	15.0%	841/225
					SWN Production Company, L.L.C.		885/164
10)	8-VG9-13	0.290	47-001728-000	Peggy Baller Everly, a single woman; and Carl J. Baller, Jr., a widower	Chesapeake Appalachia, L.L.C.	18.0%	835/691
					SWN Production Company, L.L.C.		885/716
11)	8-VG9-23	7.380	1-268335-000	Donn J. Morris, Jr. and Dolores A. Morris, his wife,	Chesapeake Appalachia, L.L.C.	12.5%	791/475
					SWN Production Company, L.L.C.		885/248

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12)	3-L14A-172	3.090	1-385483-000	Robert L. Etchison, a/k/a Robert Etchison, a married man acting in his sole and separate property	NPAR, LLC	18.0%	815/66
					Chevron U.S.A. Inc.		827/269
					Chesapeake Appalachia, L.L.C.		857/713
					SWN Production Company, L.L.C.		883/730
13)	3-L14A-143	4.840	47-0000066-000	Robert L. Etchison, a/k/a Robert Etchison, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	18.0%	858/274
					SWN Production Company, L.L.C.		883/754
14)	3-L14A-63	2.100	1-385483-000	Robert L. Etchison, a/k/a Robert Etchison, a married man acting in his sole and separate property	NPAR, LLC	18.0%	815/66
					Chevron U.S.A. Inc.		827/269
					Chesapeake Appalachia, L.L.C.		857/713
					SWN Production Company, L.L.C.		883/730
15)	3-L14A-190	3.250	1-385485-000	Michael Zink, a/k/a Michael A. Zink, and Patricia Zink, a/k/a Patricia J. Zink, individually and as husband and wife	NPAR, LLC	18.0%	815/438
					Chevron U.S.A., Inc.		827/269
					Chesapeake Appalachia, L.L.C.		857/713
					SWN Production Company, L.L.C.		883/730

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Office of Oil and Gas  
WV Dept. of Environmental Protection

# SWN

Southwestern Energy®

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

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 3H and G W Rentals LLC OHI 5H in Ohio County, West Virginia, Drilling under Mountainside Lane Road, Stewarts Terrace 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 Mountainside Lane Road, Stewarts Terrace 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

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Office of Oil and Gas  
WV Dept. of Environmental Protection



The Right People doing the Right Things,

09/25/2015

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

Date of Notice Certification: 8/13/15

API No. 47- 69 - 4706900193  
 Operator's Well No. G W Rentals LLC OHI 3H  
 Well Pad Name: G W Rentals LLC OHI Pad

**Notice has been given:**

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

State: <u>WV</u>	UTM NAD 83 Easting: <u>537031.8</u>
County: <u>69- Ohio</u>	UTM NAD 83 Northing: <u>436993.7</u>
District: <u>7- Triadelphia</u>	Public Road Access: <u>West Alexander Road</u>
Quadrangle: <u>648- Valley Grove</u>	Generally used farm name: <u>G W Rentals LLC</u>
Watershed: <u>Little Wheeling Creek</u>	

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

<p>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:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p align="center"><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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WV Dept. of Environmental Protection

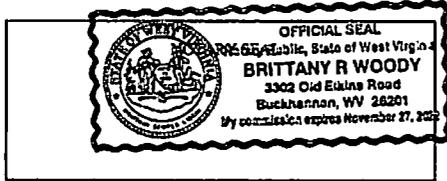
**Required Attachments:**

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

**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:	<u>SWN Production Co., LLC</u>	Address:	<u>P.O. Box 12359</u>
By:	<u>Dee Southall</u>		<u>Spring, TX 77391-4854</u>
Its:	<u>Regulatory Supervisor</u>	Facsimile:	<u>304-471-2497</u>
Telephone:	<u>832-766-1814</u>	Email:	<u>Dee_Southall@swn.com</u>



Subscribed and sworn before me this 20th day of April 2015.  
Brittany R Woody Notary Public  
My Commission Expires 11/27/15

**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](mailto:depprivacyofficer@wv.gov).

WW-6A  
(9-13)

API NO. 47- 69  
OPERATOR WELL NO. G W Rentals LLC OHI 3H  
Well Pad Name: G W Rentals 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 later than the filing date of permit application.

Date of Notice: 8/13/15 Date Permit Application Filed: 8/13/15

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

4706900193

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

- PERSONAL SERVICE
- REGISTERED MAIL
- 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, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

SURFACE OWNER(s)  
Name: G W Rentals LLC  
Address: 2084 National Road  
Wheeling, WV 26003

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Road and/or Other Disturbance)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
Name: Alliance Resources GP, LLC %Christine St. John  
Address: 2596 Battle Run Road  
Triadelphia, WV 26059

COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name: \*\*\* See Attachment #1  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

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Office of Oil and Gas  
Environmental Protection

\*Please attach additional forms if necessary

09/25/2015

# Attachment # 1

## GW Rentals LLC OHI Water Purveyors

Name	Address	City	State	Zip
GW 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
IVB Restaurant Enterprises, LLC	3 Pavilack Ct.	Wheeling	WV	26003
Robert Edward Lee & Samuel Lee Harris, Jr.	100 Circle 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. Glesner	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	MO	63017

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Office of Oil and Gas  
WV Dept. of Environmental Protection

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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**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

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

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

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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.**

Office of Oil and Gas  
WV Dept. of Environmental Protection

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**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.

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WV Dept. of Environmental Protection

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WW-6A  
(8-13)

API NO. 47- 29  
OPERATOR WELL NO. G W Rarata LLC CH 24  
Well Pad Name: G W Rarata LLC CH1 Pad

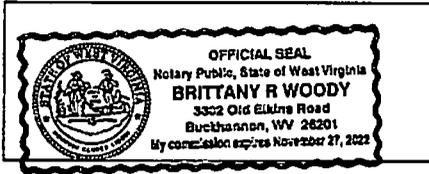
Notice is hereby given by:

Well Operator: SWN Production Co., LLC  
Telephone: 304-684-1813  
Email: Dev\_Saichai@swnc.com

Address: P.O. Box 1500  
June Law, WV 26378  
Facsimile: 304-671-2487

**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](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this 20th day of April 2015.  
Brittany R Woody Notary Public  
My Commission Expires 11/27/2021

09/25/2015

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

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

**Notice Time Requirement:** Notice shall be provided at least TEN (10) days prior to ~~filing~~ a permit application.  
**Date of Notice:** 03/26/2015      **Date Permit Application Filed:** 8/13/15

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

HAND DELIVERY       CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: GW Rentals LLC  
Address: 2084 National Road  
Wheeling, WV 26003

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

**Notice is hereby given:**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>537031.8</u>
County:	<u>Ohio</u>		Northing:	<u>4436093.7</u>
District:	<u>Tridelphia</u>	Public Road Access:	<u>West Alexander Road</u>	
Quadrangle:	<u>Valley Grove</u>	Generally used farm name:	<u>GW Rentals</u>	
Watershed:	<u>Upper Ohio South</u>			

**This Notice Shall Include:**

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

**Notice is hereby given by:**

Well Operator: SWN Production Company, LLC  
Address: 179 Innovation Drive  
Jane Lew, WV 26378  
Telephone: 304-517-6603  
Email: steve\_perkins@swn.com  
Facsimile: 304-461-2497

Authorized Representative: Steve Perkins  
Address: 179 Innovation Drive  
Jane Lew, WV 26378  
Telephone: 304-517-6603  
Email: steve\_perkins@swn.com  
Facsimile: 304-461-2497

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**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](mailto:depprivacyofficer@wv.gov).

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

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

**Date of Notice:** 03/26/2015      **Date Permit Application Filed:** 8/13/15

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

- CERTIFIED MAIL                                       HAND  
RETURN RECEIPT REQUESTED                                      DELIVERY

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

**Notice is hereby provided to the SURFACE OWNER(s)**  
(at the address listed in the records of the sheriff at the time of notice):

Name: GW Rentals LLC  
Address: 2084 National Road  
Wheeling, WV 26003

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

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Office of Oil and Gas  
WV Dept. of Environmental Protection

**Notice is hereby given:**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>537031.8</u>
County:	<u>Ohio</u>		Northing:	<u>4436093.7</u>
District:	<u>Tridelpnia</u>	Public Road Access:	<u>West Alexander Road</u>	
Quadrangle:	<u>Valley Grove</u>	Generally used farm name:	<u>GW Rentals</u>	
Watershed:	<u>Upper Ohio South</u>			

**This Notice Shall Include:**

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

Well Operator: SWN Production Company, LLC  
Telephone: 304-517-6603  
Email: steve\_perkins@swn.com

Address: 179 Innovation Drive  
Jane Lew, WV 26378  
Facsimile: 304-461-2497

**Oil and Gas Privacy Notice:**

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

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
NALCO ONESOURCE	EC6110A	Biocide	Ethanol	000064-17-5
			Glutaraldehyde (Pentanediol)	000111-30-8
			Quaternary Ammonium Compounds	N/A-063
	EC6629A	Biocide	No Hazardous Components	NONE
WEATHERFORD	WBK-133 OXIDIZER	Breaker	Ammonium Persulfate	007727-54-0
	WBK-134	Breaker	Ammonium Persulfate	007727-54-0
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7
	WCS-631LC	Clay Stabilizer	Proprietary Non Hazardous Salt	N/A-229
			Water	007732-18-5
	WFR-55LA	Friction Reducer	No Hazardous Components	NONE
	WGA-15L	Gel	Petroleum Distillate Hydrotreated Light	064742-47-8
	WPB-584-L	Buffer	Potassium Carbonate	000584-08-7
			Potassium Hydroxide	001310-58-3
	WXL-101LE	Crosslinker	No Hazardous Components	NONE
	WXL-101LM	Crosslinker	Petroleum Distillate Hydrotreated Light	064742-47-8
	WXL-105L	Crosslinker	Water	007732-18-5
			Ethylene Glycol	000107-21-1
Boric Acid			010043-35-3	
Ethanolamine			000141-43-5	
SCHLUMBERGER	B244 Green-Cide 25G	Biocide	Glutaraldehyde	111-30-8
	L071 Temporary Clay Stabilizer	Clay Stabilizer	Cholinium Chloride	67-48-1
	Breaker J218	Breaker	Diammonium Peroxidisulphate	7727-54-0
	EB-Clean* J475 Breaker		Diammonium Peroxidisulphate	7727-54-0
	Friction Reducer B315	Friction Reducer	Distillates (petroleum), Hydrotreated light Aliphatic Alcohol Glycol Ether	64742-47-8 Proprietary
	Friction Reducer J609		Ammonium Sulfate	7783-20-2

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Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
SCHLUMBERGER	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
	Borate Crosslinker J532	Crosslinker	Aliphatic polyol Sodium tetraborate decahydrate	Proprietary 1303 96-4
	Crosslinker J610		Aliphatic polyol Potassium hydroxide	Proprietary 1310 58-3

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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	010043-35-3	
		Methanol (Methyl Alcohol)	000067-56-1	
FRAC TECH SERVICES	APB01 (AMMONIUM PERSUFATE BREAKER)	Breaker	Ammonium Persulfate	007727-54-0
	B05 (LOW PH BUFFER)	Buffer	Acetic acid	000064-19-7
	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	064742-47-8
	KCLS-4	Clay Stabilizer	No Hazardous Components	NONE
	LTB-1	Breaker	Ammonium Persulfate	N/A

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# G. W. RENTALS LLC OHI PAD "A" AS-BUILT & RECLAMATION PLAN TRIADELPHIA DISTRICT, OHIO COUNTY MARCH 2015



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)-796-1610

**WVDEP OOG  
ACCEPTED AS-BUILT**

*[Signature]* 9/17/2015

- 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# 6900  
API# 6900  
API# 6900  
API# 6900  
API# 6900  
API# 6900



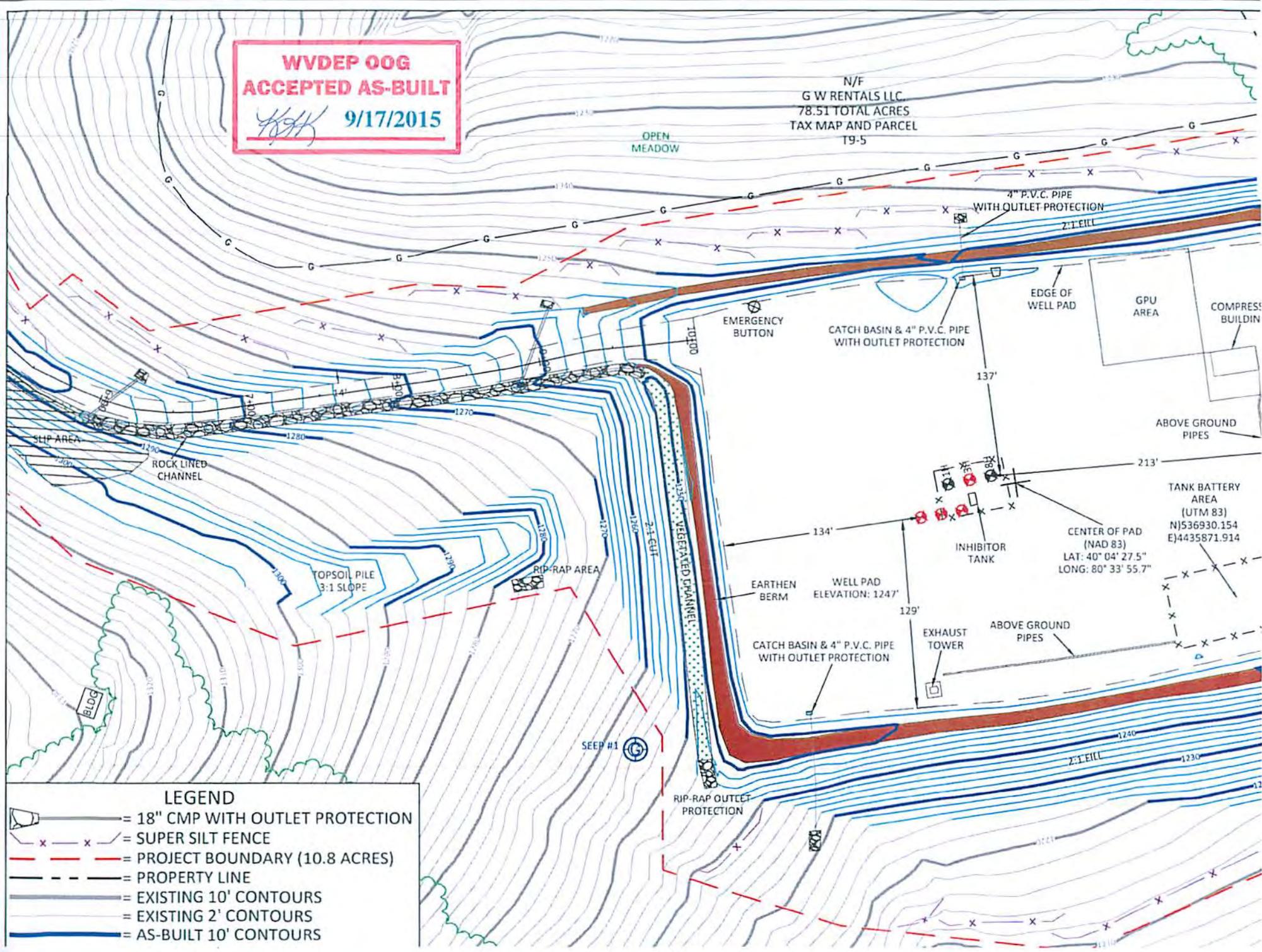
**COORDINATES**

CENTER OF WELL PAD  
(NAD 83)  
LAT: 40° 04' ;  
LONG: 80° 33' ;  
(NAD 27)  
LAT: 40° 04' ;  
LONG: 80° 33' ;

SITE ENTRANCE  
(NAD 83)  
LAT: 40° 04' ;  
LONG: 80° 33' ;  
(NAD 27)  
LAT: 40° 04' ;  
LONG: 80° 33' ;

**WVDEP OOG  
ACCEPTED AS-BUILT**  
*[Signature]* 9/17/2015

N/F  
G W RENTALS LLC.  
78.51 TOTAL ACRES  
TAX MAP AND PARCEL  
T9-5



**LEGEND**

	= 18" CMP WITH OUTLET PROTECTION
	= SUPER SILT FENCE
	= PROJECT BOUNDARY (10.8 ACRES)
	= PROPERTY LINE
	= EXISTING 10' CONTOURS
	= EXISTING 2' CONTOURS
	= AS-BUILT 10' CONTOURS

TANK BATTERY AREA  
(UTM 83)  
N)536930.154  
E)4435871.914  
CENTER OF PAD  
(NAD 83)  
LAT: 40° 04' 27.5"  
LONG: 80° 33' 55.7"

WELL PAD  
ELEVATION: 1247'



● SITE LOCATION

**WEST VIRGINIA COUNTY MAP**

TRIADELPHIA DISTRICT, OHIO COUNTY,  
WEST VIRGINIA  
SCALE: N.T.S.

**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

MISS Utility of West Virginia  
1-800-247-4848  
West Virginia State Law  
(Statute 33-2-1) Chapter 24-C)  
Remember that you call two business days before you dig in  
the state of West Virginia  
IT'S THE LAW!!!



**G.W. RENTALS LLC -OHI AS-BUILT**  
**AS-BUILT/PRODUCTION PLAN**  
TRIADELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA  
SOUTHWESTERN ENERGY

WEST VIRGINIA STATE PLANE COORDINATE SYSTEM  
NORTH ZONE, NAD83  
ELEVATIONS BASED ON NAVD83  
ESTABLISHED BY SURVEY GRADE GPS & OPUS  
POST-PROCESSING

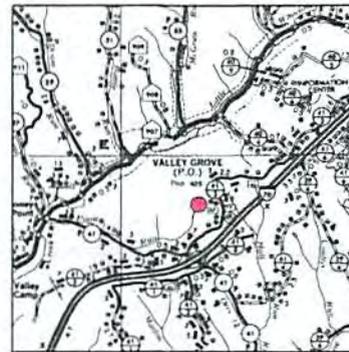
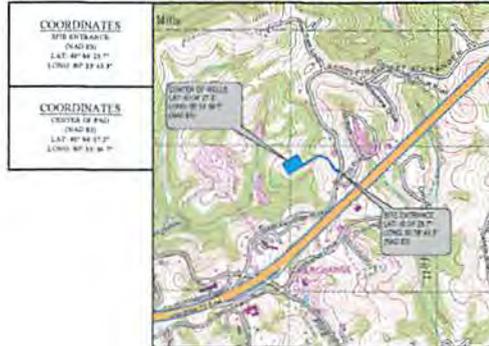


**DRAWING INDEX**

4706800193

01	COVER SHEET
02-03	ELEVATION SHEETS
04	PLAN SHEET
05	ACCESS ROAD PROFILE SHEET
06	DETAIL SHEET

USGS VALLEY GROVE, WV QUAD MAP



TRIADELPHIA DISTRICT, OHIO COUNTY,  
WEST VIRGINIA

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

Received

AUG 14 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

**AS-BUILT CERTIFICATION:**  
THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAM ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL, OFFICE OF OIL AND GAS CRS 33-8.

**NOTES**

1. THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATING TO THE FINAL GRADING OF THE DISTURBED AREA AS OF JULY 22, 2015. 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 DRILLING OPERATIONS.
3. THE EXISTING EGRESS TO THE WELL PAD SHALL HAVE THE MOUNTABLE BERMS REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.

REVISION:	
DATE:	
COVER SHEET	
G.W. RENTALS LLC WELL PAD	
G.W. RENTALS LLC WELL PAD AS-BUILT	
TRIADELPHIA DISTRICT, OHIO COUNTY	
WEST VIRGINIA	
JOB: SWN00012	
DATE: 07-29-2015	
DRAWN BY: ALB	
SCALE: NO SCALE	
SHEET: 1 OF 6	

*Handwritten signature and date: 8.10.15*



PREVAILING WINDS →

**EMERGENCY GATHERING AREA**  
WV NORTH NAD 83  
LAT: 40° 04' 28.1"  
LONG: 80° 33' 56.3"

**CENTER OF PAD**  
WV NORTH NAD 83  
LAT: 40° 04' 27.2"  
LONG: 80° 33' 56.7"

EVACUATION ROUTE

PREVAILING WINDS →

**LEGEND**  
EMERGENCY EVACUATION ROUTE

47069  
Received  
AUG 14 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

*Anthony L. Baumgard*  
7-31-2015  
ANTHONY L. BAUMGARD  
REGISTERED  
14049  
STATE OF WEST VIRGINIA  
PROFESSIONAL ENGINEER



DATE	REVISION

DATE	REVISION

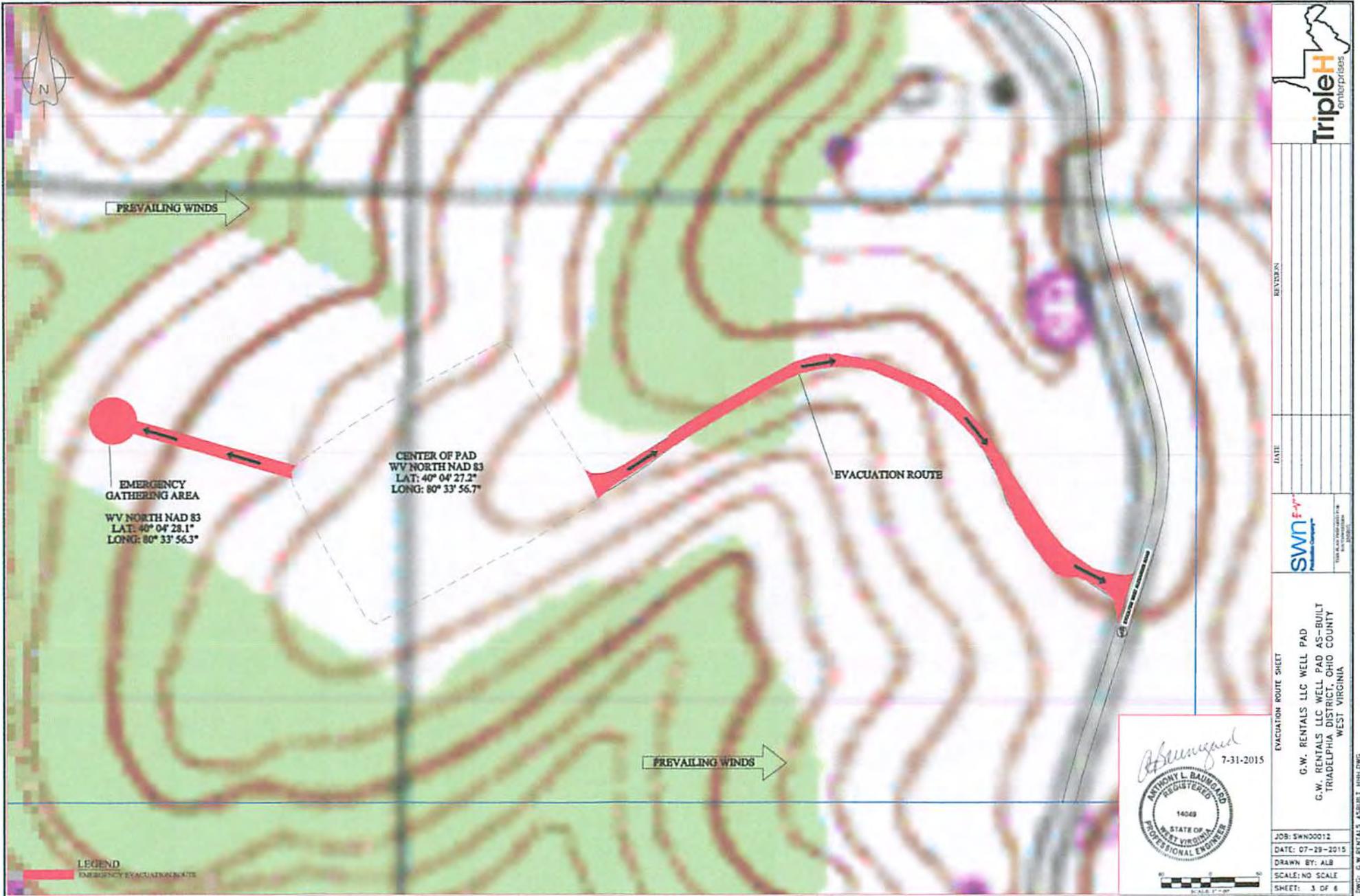


EVACUATION ROUTE SHEET  
G.W. RENTALS LLC WELL PAD  
G.W. RENTALS LLC WELL PAD AS-BUILT  
TRIADELPHIA DISTRICT, OHIO COUNTY  
WEST VIRGINIA

JOB: SWH00012  
DATE: 07-29-2015  
DRAWN BY: ALB  
SCALE: NO SCALE  
SHEET: 2 OF 5

DWG: G.W.RENTALS ASBUILT HHH.DWG

E. KSD 8.10.15



REVISION	DATE



EVACUATION ROUTE SHEET

G.W. RENTALS LLC WELL PAD  
 G.W. RENTALS LLC WELL PAD AS-BUILT  
 TRIADELPHIA DISTRICT, OHIO COUNTY  
 WEST VIRGINIA

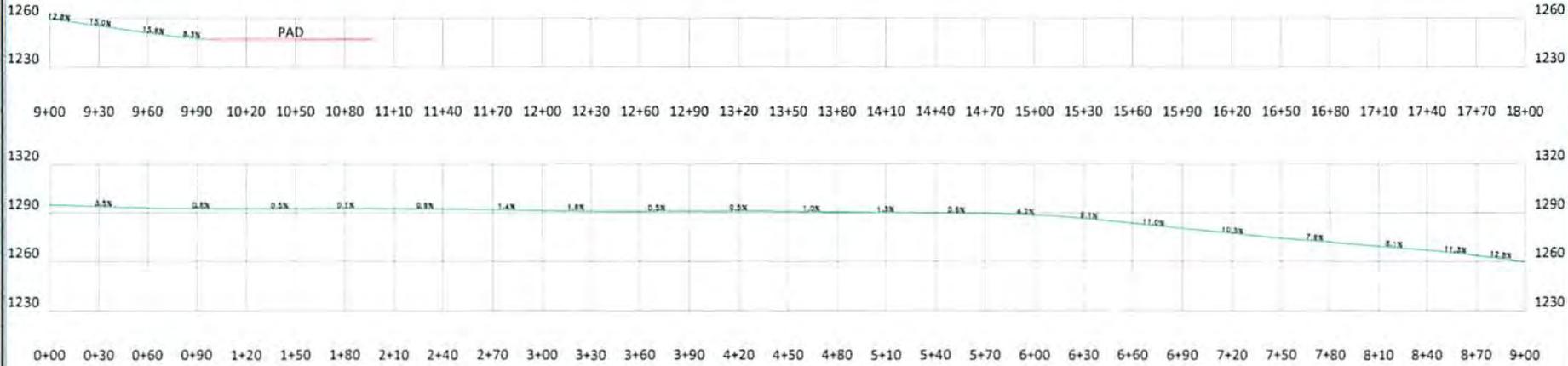
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 DATE: 07-29-2015  
 DRAWN BY: ALB  
 SCALE: NO SCALE  
 SHEET: 3 OF 6

*Anthony L. Baumgard*  
 7-31-2015

ANTHONY L. BAUMGARD  
 REGISTERED  
 14049  
 STATE OF WEST VIRGINIA  
 PROFESSIONAL ENGINEER

*E. BLO 8.10.15*





DATE: 07-29-2015



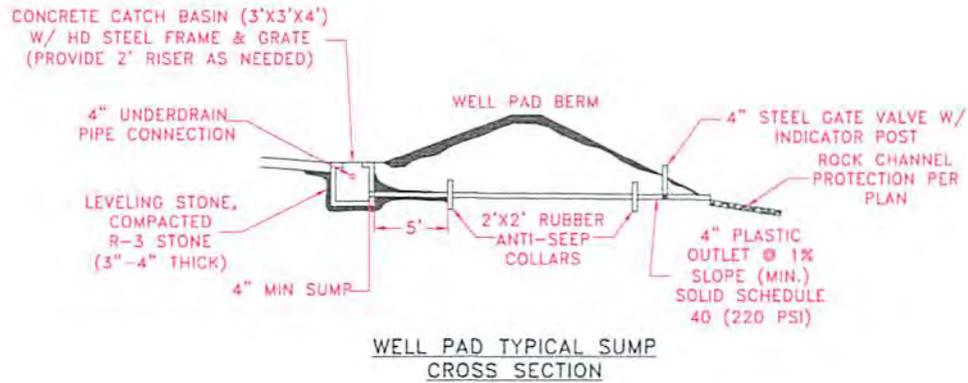
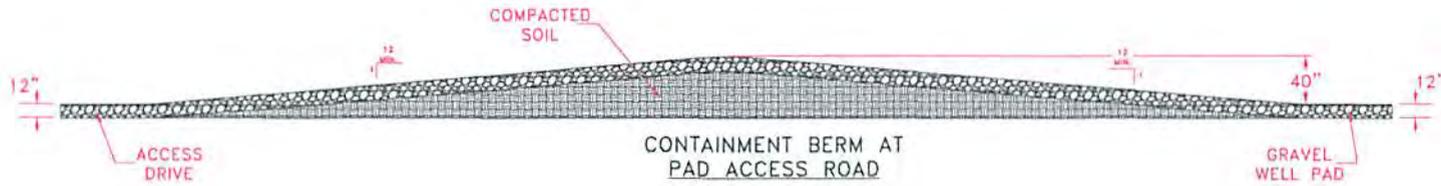
ACCESS ROAD PROFILE SHEET

G.W. RENTALS LLC WELL PAD  
 G.W. RENTALS LLC WELL PAD A5-BUILT  
 TRIADAPLHA DISTRICT, OHIO COUNTY  
 WEST VIRGINIA



JOB: SWN00012  
 DATE: 07-29-2015  
 DRAWN BY: ALB  
 SCALE: NO SCALE  
 SHEET: 5 OF 6

*E. JLO*  
 8.10.15



WELL PAD TYPICAL SUMP  
CROSS SECTION

NOTE!  
THERE SHALL BE NO DISCHARGE FROM THE SUMP  
DURING DRILLING OPERATIONS.

*Anthony L. Baumgard*  
7-31-2015  
ANTHONY L. BAUMGARD  
REGISTERED  
14049  
A STATE OF  
WEST VIRGINIA  
PROFESSIONAL ENGINEER

REVISION  
DATE

SWN F-1  
SWN F-1  
SWN F-1

DETAIL SHEET  
G.W. RENTALS LLC WELL PAD  
G.W. RENTALS LLC WELL PAD AS-BUILT  
TRIADAPLHA DISTRICT, OHIO COUNTY  
WEST VIRGINIA

JOB: SWN00012  
DATE: 07-29-2015  
DRAWN BY: ALB  
SCALE: NO SCALE  
SHEET: 6 OF 6

DWG: G.W.RENTALS ASBUILT HHH.DWG

*C. BLO*  
8.10.15