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

May 26, 2016

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-6900210, 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: GARY KESTNER OHI 6H
Farm Name: KESTNER, GARY & TERRY
API Well Number: 47-6900210
Permit Type: Horizontal 6A Well
Date Issued: 05/26/2016

Promoting a healthy environment.

API Number: _____

PERMIT CONDITIONS 4706900210

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

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

February 2, 2016

Received
Office of Oil & Gas
MAR 03 2016

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

RE: Proposed New Well Gary Kestner OHI 6H

Dear Ms. Adkins:

Enclosed please find the Well Work Permit Application for the above captioned well. These wells are situated on the Kestner's property, in Liberty District, Ohio County, West Virginia.

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

Thank you.

Sincerely,

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

Received
Office of Oil & Gas
MAR 03 2016

47 009 00210

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

WW-6B
(10/14)

API NO. 47- 69 -
OPERATOR WELL NO. Gary Kestner OHI 6H
Well Pad Name: Gary Kestner PAD

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 (Operator ID) | 69- Ohio (County) | 3-Liberty (District) | 247-Bethany (Quadrangle)

2) Operator's Well Number: Gary Kestner OHI 6H Well Pad Name: Gary Kestner PAD

3) Farm Name/Surface Owner: Gary & Terry Kestner Public Road Access: Greggsville, Clinton & Potomac Road

4) Elevation, current ground: 1292' Elevation, proposed post-construction: 1292'

5) Well Type (a) Gas x Oil ____ Underground Storage ____
Other ____
(b)If Gas Shallow x Deep ____
Horizontal x

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- 6419', Target Base TVD- 6488', Anticipated Thickness- 69', Associated Pressure- 3881'

8) Proposed Total Vertical Depth: 6469' C. 1-29-16

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 13217'

11) Proposed Horizontal Leg Length: 6231' C. 4-27-16

12) Approximate Fresh Water Strata Depths: ~~250'~~ ~~671~~ 447' BW

13) Method to Determine Fresh Water Depths: from nearby water wells and offset wells

14) Approximate Saltwater Depths: 780'

15) Approximate Coal Seam Depths: ~~671'~~ 447' BW

16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of.

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes ____ No x

(a) If Yes, provide Mine Info: Name: ____
Depth: ____
Seam: ____
Owner: ____

4706900210

WW-6B
(10/14)

API NO. 47- 69 -
OPERATOR WELL NO. Gary Kestner OHI 6H
Well Pad Name: Gary Kestner PAD

18) **CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	~~721'~~ 647'	~~721'~~ 647'	654 sx/CTS
Coal	9 5/8"	New	J-55	36#	~~2046'~~ 2045'	~~2046'~~ 2045'	758 sx/CTS
Intermediate	7"	New	J-55	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	13217'	13217'	Lead 35sx cal 1530sx/100' Intec int
Tubing	2 3/8'	New	P-110	4.7#	Approx. 6469'	Approx. 6469'	
Liners							

1-29-16
4-27-16

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							

PACKERS

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

4706900210

WW-6B
(10/14)

API NO. 47- 69 -
OPERATOR WELL NO. Gary Kestner OHI 6H
Well Pad Name: Gary Kestner PAD

4706900319

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 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): 8.0

22) Area to be disturbed for well pad only, less access road (acres): 5.5

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:

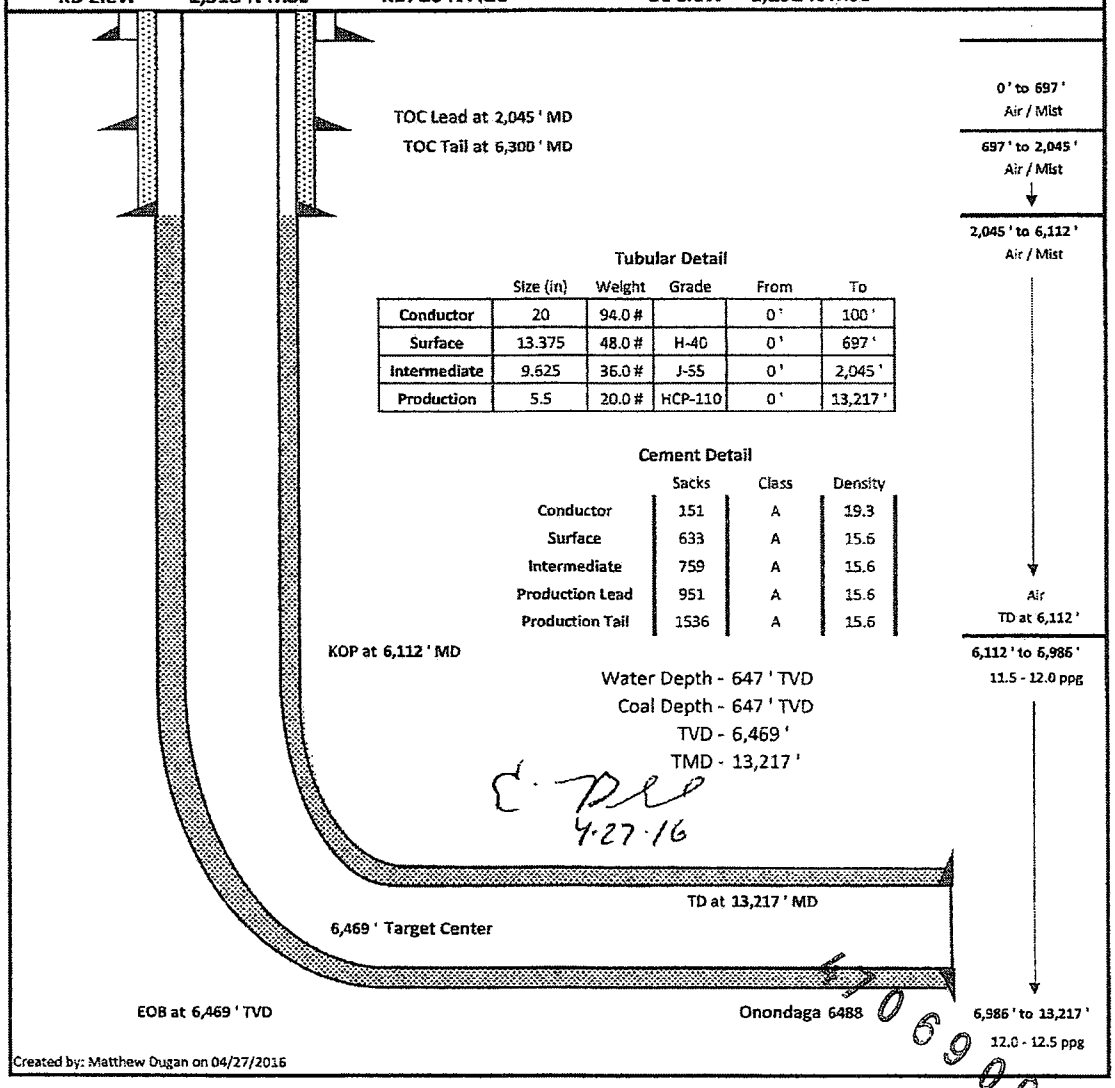
All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

Received
Office of Oil & Gas
MAR 03 2016

*Note: Attach additional sheets as needed.

Southwestern Energy Company	Proposed Drilling Program

Well:	GARY KESTNER OHI 6	Re-entry Rig:	0
Field:	PANHANDLE FIELD	Prospect:	PANHANDLE
County:	OHIO	State:	WV
SHL:	40.1486 Latitude -80.5413 Longitude		
BHL:	40.1303 Latitude -80.5345 Longitude		
KB Elev:	1,318 ft MSL KB: 26 ft AGL	GL Elev:	1,292 ft MSL



Tubular Detail

	Size (in)	Weight	Grade	From	To
Conductor	20	94.0 #		0 '	100 '
Surface	13.375	48.0 #	H-40	0 '	697 '
Intermediate	9.625	36.0 #	J-55	0 '	2,045 '
Production	5.5	20.0 #	HCP-110	0 '	13,217 '

Cement Detail

	Sacks	Class	Density
Conductor	151	A	19.3
Surface	633	A	15.6
Intermediate	759	A	15.6
Production Lead	951	A	15.6
Production Tail	1536	A	15.6

Created by: Matthew Dugan on 04/27/2016

4706900210

WW-9
(9/13)

API Number 47 - 69 -
Operator's Well No. Gary Kestner OHI 6H

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

4706900210

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC OP Code 494512924

Watershed (HUC 10) Upper Ohio North Quadrangle 247- Bethany

Elevation 1292' County 69- Ohio District 3- Liberty

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 SOBM from KOP to TD

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

Additives to be used in drilling medium? see attached sheets

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

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

-Landfill or offsite name/permit number? meadow SWF- 1032, SS Grading SWF- 4902, Northwestern SWF- 1025, Short Creek 1034/WV0109517/CID28726, Carbon Limestone 28726/CID28726
Arden Landfill 100172, American 02-12954, 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

Company Official (Typed Name) Dee Southall

Company Official Title Regulatory Supervisor

Received
Office of Oil & Gas
MAR 03 2016

Subscribed and sworn before me this 19th day of January 20 16

Brittany R Woody
Notary Public

My commission expires 11/27/22

OFFICIAL SEAL
Notary Public, State of West Virginia
BRITTANY R WOODY
3302 Old Elkins Road
Buckhannon, WV 26201
My commission expires November 27, 2022

Form WW-9

Operator's Well No. Gary Kestner OHI 6H

SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 8.0 Prevegetation pH _____

Lime as determined by pH test min. 2 Tons/acre or to correct to pH 5.5

Fertilizer type 10-20-20

Fertilizer amount 600 lbs/acre

Mulch Hay/Straw 2.5 Tons/acre

4706900210

Seed Mixtures

Temporary		Permanent	
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

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: 1.29.16

Comments:

Received
Office of Oil & Gas
MAR 03 2016

Title: Oil and Gas Inspector Date: 1.29.16

Field Reviewed? (✓) Yes ( ) No

4706900210

Marcellus Well Drilling Procedures
And Site Safety Plan

SWN Production Co., LLC

47 - 051 -
Well name: Gary Kestner OHI 6H
Bethany, Quad
Liberty, District
Ohio County, West Virginia

Submitted by:

Danielle Southall Date: 1/19/2016

Title Regulatory Supervisor SWN Production Co., LLC

Approved by:

Date: 1-29-16

Title: Oil & Gas Inspector

Approved by:

Date:

Title:

SWN Production Co., LLC – Confidential

Received
Office of Oil & Gas
MAR 03 2016

SOUTHWESTERN ENERGY

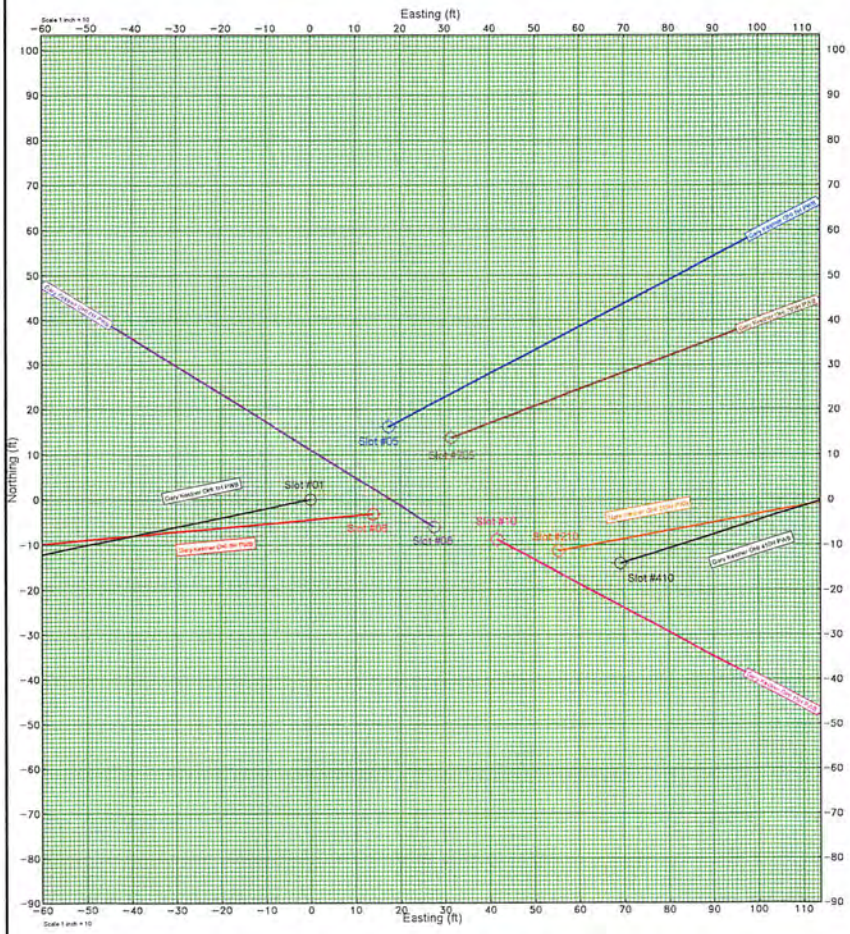
Location:	Ohio County, WV	Slot:	Slot #01
Field:	Ohio	Well:	Gary Kestner OHI 1H
Facility:	Gary Kestner OHI Pad	Wellbore:	Gary Kestner OHI 1H PWB

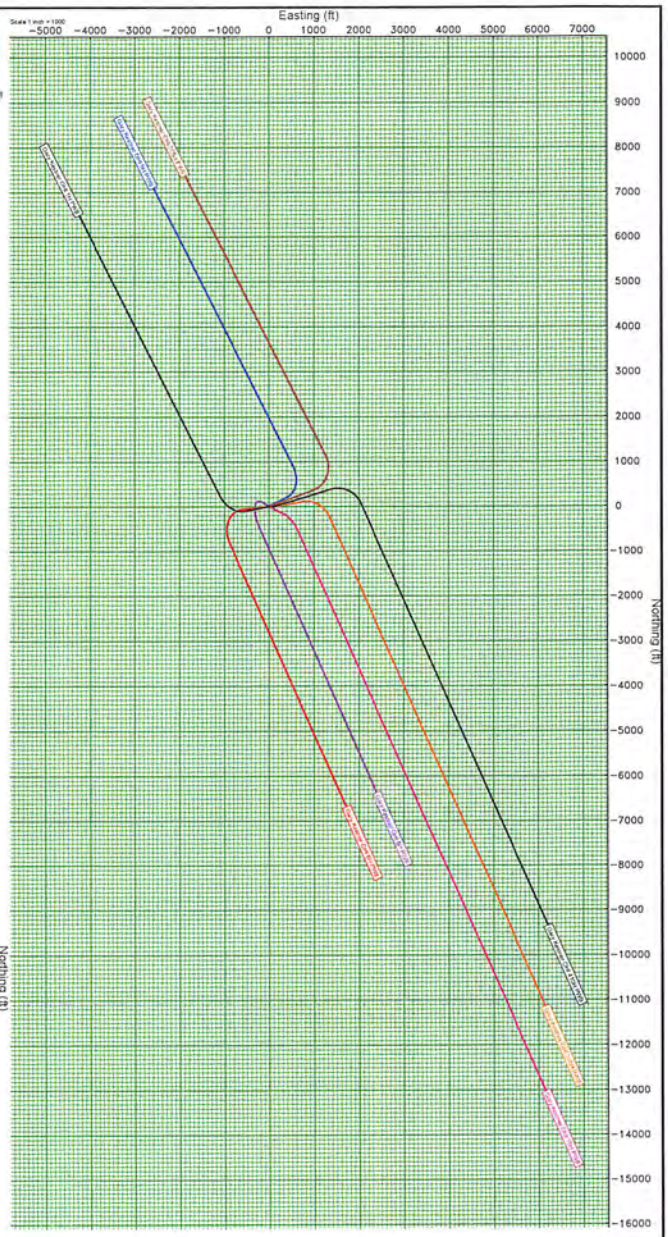
Southwestern Energy

Plot reference wellpath is Gary Kestner OHI 1H PWP Ex-00	
True vertical depths are referenced to Rig on Slot #01 (RT)	Grid System: NAD83 / UTM Zone 17 North, US feet
Measured depths are referenced to Rig on Slot #01 (RT)	North Reference: Grid north
Rig on Slot #01 (RT) to Mean Sea Level: 1318 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Slot #01): -1292 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: alvayes on 6/5/2015

Well Data

Slot	Well	Wellbore	Wellpath
Slot #01	Gary Kestner OHI 1H	Gary Kestner OHI 1H PWB	Gary Kestner OHI 1H PWP Ex-00
Slot #05	Gary Kestner OHI 5H	Gary Kestner OHI 5H PWB	Gary Kestner OHI 5H PWP Ex-00
Slot #06	Gary Kestner OHI 6H	Gary Kestner OHI 6H PWB	Gary Kestner OHI 6H PWP Ex-00
Slot #08	Gary Kestner OHI 8H	Gary Kestner OHI 8H PWB	Gary Kestner OHI 8H PWP Ex-00
Slot #10	Gary Kestner OHI 10H	Gary Kestner OHI 10H PWB	Gary Kestner OHI 10H PWP Ex-00
Slot #205	Gary Kestner OHI 205H	Gary Kestner OHI 205H PWB	Gary Kestner OHI 205H PWP Ex-00
Slot #210	Gary Kestner OHI 210H	Gary Kestner OHI 210H PWB	Gary Kestner OHI 210H PWP Ex-01
Slot #410	Gary Kestner OHI 410H	Gary Kestner OHI 410H PWB	Gary Kestner OHI 410H PWP Ex-00





BAKER HUGHES

Office of Oil & Gas
MAR 03 2016

Latitude: 40°10'00" — 11,494'

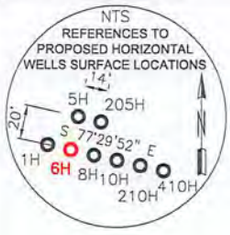
BHL Latitude: 40°10'00" — 9,556'

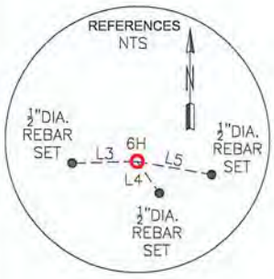
RETTEW

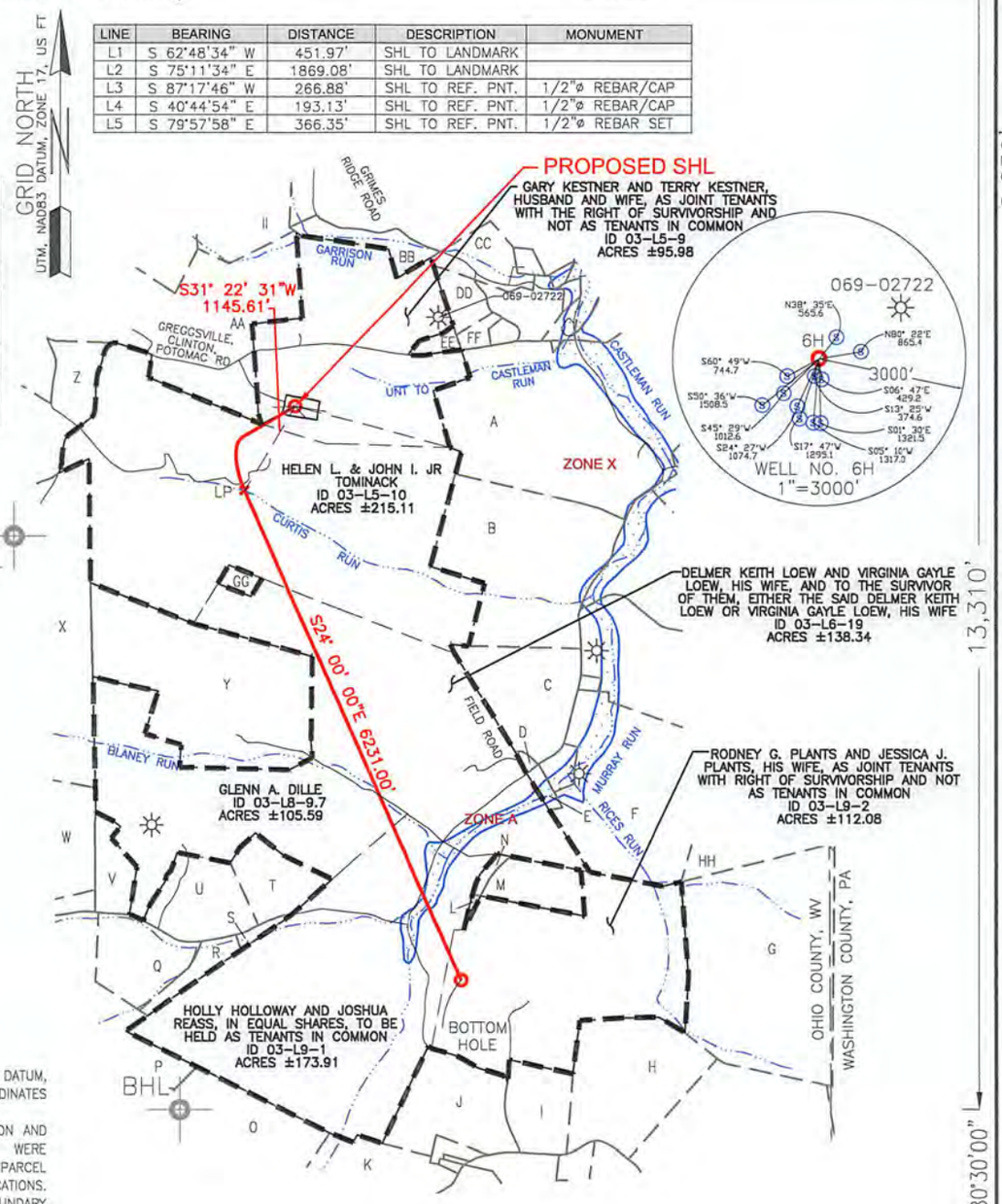
RETTEW Associates, Inc.
27 Travato Street, Suite 101
Bridgeport, WV 26330
Phone (800) 738-8395
Email: rettew@rettew.com
Website: www.rettew.com

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,351.995 EASTING: 539,072.623
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,053.872 EASTING: 538,890.824
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,442,318.856 EASTING: 539,663.305

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 62°48'34" W	451.97'	SHL TO LANDMARK	
L2	S 75°11'34" E	1869.08'	SHL TO LANDMARK	
L3	S 87°17'46" W	266.88'	SHL TO REF. PNT.	1/2"ø REBAR/CAP
L4	S 40°44'54" E	193.13'	SHL TO REF. PNT.	1/2"ø REBAR/CAP
L5	S 79°57'58" E	366.35'	SHL TO REF. PNT.	1/2"ø REBAR SET







NOTES ON SURVEY

1. COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
5. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
6. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
7. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

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. 2313

JESSE E. SCHOLL
LICENSED
No. 2313
STATE OF WEST VIRGINIA
PROFESSIONAL SURVEYOR

SEE NEXT SHEET FOR ADJOINING OWNER INFORMATION

2000 0 2000
GRAPHIC SCALE IN FEET

COMPANY: SWN Production Company, LLC — SWN Production Company™

(+) 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 SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

OPERATOR'S WELL #: GARY KESTNER OHI 6H

API WELL #: 47 (STATE) 069 (COUNTY) 00210 HGA (PERMIT)

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

WATERSHED: UPPER OHIO NORTH — ELEVATION: ±1,292.0 (DESIGN)

DISTRICT: LIBERTY DISTRICT — COUNTY: OHIO — QUADRANGLE: BETHANY/VALLEY GROVE, WV

SURFACE OWNER: GARY & TERRY KESTNER — ACREAGE: ±95.98

OIL & GAS ROYALTY OWNER: GARY & TERRY KESTNER — ACREAGE: ±95.98

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: 6,469' TVD 13,217' 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

LEGEND:
- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- EXISTING SPRING
- EXISTING WATER WELL
- HARD LINE
- TIE LINE
- LEASE BOUNDARY
- MARCELLUS DHP

REVISIONS:

DATE: 01-25-2016
DRAWN BY: B. HERMAN
SCALE: 1" = 2000'
DRAWING NO:087569022
WELL LOCATION PLAT

PROPERTY NUMBER 2501163412
PAD ID 3001155487

47-069-00210 HGA

RETTEW

RETTEW Associates, Inc.
27 Travato Street, Suite 101
Bridgeport, WV 26330
Phone (800) 738-8395
Email: rettew@rettew.com
Website: www.rettew.com

ADJOINING OWNERS

TRACT	SURFACE OWNERS	TAX PARCEL	ACRES
A	GREGORY N. MORMANIS AND SHARON LEE MORMANIS, HIS WIFE AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON	03-L6-13	104.29±
B	WILLIAM I. RODGERS	03-L6-15	68.35±
C	JEFFREY J. EISENHAUER AND JOLENE M. EISENHAUER, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON	03-L6-18	29.21±
D	DELMER K. LOEW AND VIRGINIA G. LOEW, HIS WIFE, AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON	03-L6-18-1	0.72±
E	DONNA MUSILLI, SINGLE	03-L6-18-3	2.15±
F	DELMAR K. LOEW AND VIRGINIA G. LOEW, HIS WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP, AND NOT AS TENANTS IN COMMON	03-L6-18-2	77.07±
G	DAVID J. HALL AND CYNTHIA J. HALL, MARRIED AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON	03-L9-3	92.18±
H	MARK S. MIKESINOVICH	03-L9-6-9	44.33±
I	DAVID E. MCNABB AND BRENDA L. MCNABB, TENANTS IN COMMON	03-L9-6-8	15.66±
J	MICHAEL H. FISHER AND SUSAN K. FISHER AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON	03-L9-6-6	29.07±
K	LARRY G. BALL, SINGLE	03-L8-42	51.77±
L	RODNEY G. PLANTS AND JESSICA J. PLANTS, HIS WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON	03-L9-2-3	0.44±
M	RODNEY G. PLANTS AND JESSICA J. PLANTS, HIS WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON	03-L9-2-1	12.80±
N	RODNEY G. PLANTS AND JESSICA J. PLANTS, HIS WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON	03-L9-2-2	1.20±
O	JODY LEE SHILLING, SINGLE	03-L8-10	40.10±
P	ROBERT C. JONES, SON OF ROBERT E. JONES	03-L8-11	168.61±
Q	TUNNEL RIDGE, LLC, A DELAWARE LIMITED LIABILITY COMPANY	03-L8-9-3	19.85±
R	GEORGE E. PORTER, III, AND MARGARET ANN PORTER, HUSBAND AND WIFE	03-L8-9-5	7.50±
S	MARGARET ANN PORTER AND GEORGE E. PORTER, III, HER HUSBAND, OR THE SURVIVOR	03-L8-9-2	2.26±
T	JARRETT K. REEDY AND LESLIE K. REEDY, HIS WIFE	03-L8-9-4	14.65±
U	FRED E. FOSTER AND JANET K. FOSTER, HIS WIFE, AS JOINT TENANTS WITH THE RIGHT OF SURVIVORSHIP, AND NOT AS TENANTS IN COMMON	03-L8-9	19.64±
V	NEAL P. BROWN	03-L8-9-6	8.63±
W	DONALD L. WADDELL AND DEBORAH JO WADDELL, HIS WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON	03-L5-23	54.75±
X	GEORGE FLACCUS SMITH	03-L5-27	138.00±
Y	LYNN MCELVANY, WIDOW	03-L5-26	91.89±
Z	DONALD F. DOLENCE AND JOAN L. DOLENCE, HUSBAND AND WIFE AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON	03-L5-11	99.22±
AA	JOSEPH E. ENNIS AND MARJORIE G. ENNIS, HUSBAND AND WIFE AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON	03-L5-8	88.00±
BB	GREGORY D. ATKINSON, ANDREA L. FULLENKAMP, JENNIFER K. TUCKER, AND TIMOTHY S. ATKINSON AS TENANTS IN COMMON	03-L6-10-1	6.71±
CC	GREGORY D. ATKINSON, ANDREA L. FULLENKAMP, JENNIFER K. TUCKER, AND TIMOTHY S. ATKINSON AS TENANTS IN COMMON	03-L6-10-2	11.72±
DD	LURA MARIE GEAR (FKA LURA MARIE HICKS)	03-L6-9-1	5.85±
EE	RICHARD CALVIN COWAN, SR. AND CHERYL ANN WILLIAMS, SINGLE	03-L6-21	2.22±
FF	RONALD LEROY CONNER	03-L6-11	0.41±
GG	TUNNEL RIDGE, LLC, A DELAWARE LIMITED LIABILITY COMPANY	03-L6-22	2.00±
HH	MICHAEL WILHELM AND JULIA E. WILHELM, HUSBAND AND WIFE AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON	03-L6-20	55.13±
II	ROBERT H. FISH AND PATSY C. CARROLL FISH, HIS WIFE, LIFE ESTATE, AND HARRY ALAN FISH, REMAINDERMAN	03-L2-13	78.54±

REVISIONS:

COMPANY: SWN Production Company, LLC — SWN Production Company™

OPERATOR'S WELL #: GARY KESTNER OHI 6H

LOCATION: LIBERTY DISTRICT, OHIO COUNTY, WEST VIRGINIA

DATE: 01-25-2016
DRAWN BY: B. HERMAN
SCALE: N/A
DRAWING NO:087569022
ADJOINING OWNERS

PROPERTY NUMBER 2501163412
PAD ID 3001155487

Latitude: 40°10'00" — 11,494'

BHL Latitude: 40°10'00" — 9,556'

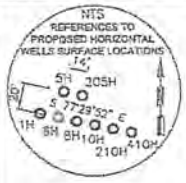
RETTEW

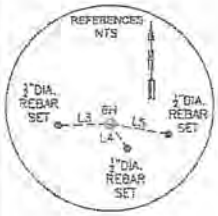
RETTEW Associates, Inc.
27 Travers Street, Suite 101
Bridgeport, WV 26330
Phone (800) 735-8385
Email: rettew@rettew.com
Website: www.rettew.com

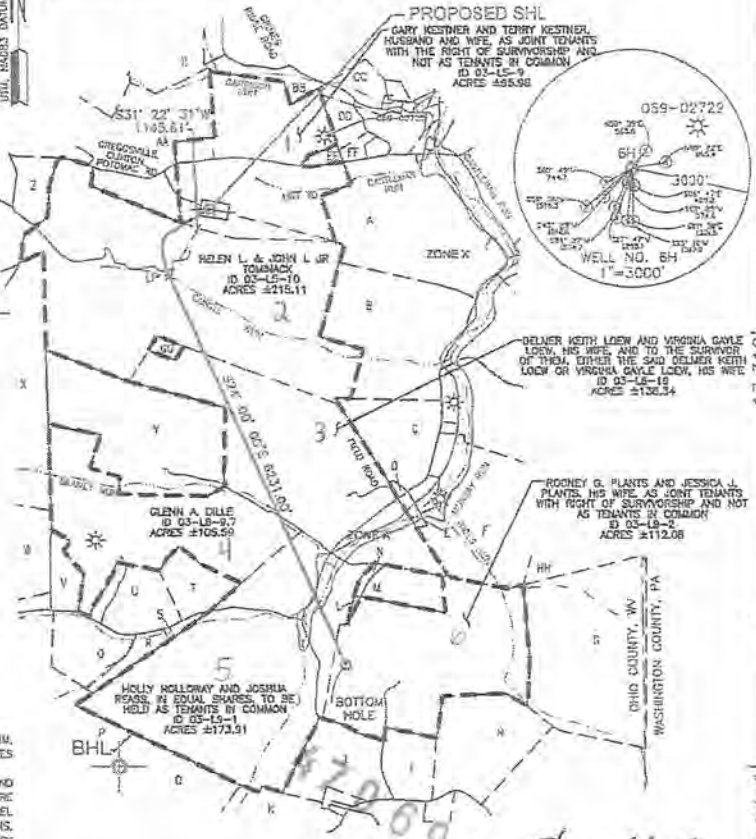
GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 62°49'34" W	451.97'	SHL TO LANDMARK	
L2	S 75°11'34" E	1659.08'	SHL TO LANDMARK	
L3	S 87°17'46" W	265.88'	SHL TO REF. PNT.	1/2"ø REBAR/CAP
L4	S 40°44'54" E	193.13'	SHL TO REF. PNT.	1/2"ø REBAR/CAP
L5	S 79°57'58" E	368.35'	SHL TO REF. PNT.	1/2"ø REBAR SET

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,351.995 EASTING: 539,072.623
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,053.872 EASTING: 538,890.824
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,442,318.656 EASTING: 539,863.306







Supplemental
TB

NOTES ON SURVEY

1. COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
5. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
6. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
7. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

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. 2313

JESSE E. SCHOLL
LICENSED
No. 2313
STATE OF WEST VIRGINIA
PROFESSIONAL SURVEYOR

4-27-16

SEE NEXT SHEET FOR ADJOINING OWNER INFORMATION

2000 0 2000
GRAPHIC SCALE IN FEET

COMPANY: SWN Production Company, LLC — SWN Production Company™

(+) 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 SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

OPERATOR'S WELL #: GARY KESTNER OHI 6H
API WELL #: 47 (STATE) 069 (COUNTY) (PERMIT)

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☐ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒
WATERSHED: UPPER OHIO NORTH — ELEVATION: ±1,292.0 (DESIGN)
DISTRICT: LIBERTY DISTRICT — COUNTY: OHIO — QUADRANGLE: BETHANY/VALLEY GROVE, WV
SURFACE OWNER: GARY & TERRY KESTNER — ACREAGE: ±95.98
OIL & GAS ROYALTY OWNER: GARY & TERRY KESTNER — ACREAGE: ±95.98
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: 6,469' TVD 13,217' TMD

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

DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND:
- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- EXISTING SPRING
- EXISTING WATER WELL
- HARD LINE
- TIE LINE
- LEASE BOUNDARY
- MARCELLUS DRP

REVISIONS:

DATE: 01-25-2016
DRAWN BY: B. HERMAN
SCALE: 1" = 2000'
DRAWING NO:087569022
WELL LOCATION PLAT

PROPERTY NUMBER 2501163412
PAD ID 3001155487

WW-6A1
(5/13)

Operator's Well No. Gary Kestner OHI 6H

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

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

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

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

4706900210

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

Received
Office of Oil & Gas
MAR 03 2016

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

Well Operator: SWN Production Company, LLC.
By: Courtney A. Graviett
Its: Courtney A. Graviett, Landman

#	TMP	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
1)	3-L5-9	95.98100000	1-313947-000 729489-000	Gary A. Kestner and Terry L. Kestner, husband and wife	Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. SWN Production Company, LLC	18.00%	814/427 825/133 884/1
2)	3-L5-10	215.11250000	1-324178-000 730044-000	Helen L. Tominack, widow, and John I. Tominack, Jr. and Dena L. Tominack, his wife	Great Lakes Energy Partners, LLC Great Lakes Energy Partners, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. SWN Production Company, LLC	15.50%	778/505 849/496 808/556 808/556 822/708 883/515
3)	3-L6-19	138.34375000		Delmer K. Loew a/k/a Delmer Keith Loew a/k/a Delmer K. Loew and Virginia G. Loew a/k/a Virginia Gayle Loew, husband and wife	TH Exploration, LLC	18.00%	896/76
4)	3-L8-9.7	105.58975000	1-324736-000 730238-000	Fred E. Foster and Janet K. Foster, husband and wife	Fortuna Energy Inc. Range Resources-Appalachia LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. SWN Production Company, LLC	12.50%	767/614 786/380 808/493 808/493 822/742 883/527
5)	3-L9-1	173.91000000	1-272712-000 725377-000	Nancy C. Reass, widow	Chesapeake Appalachia, LLC Statoilhydro USA Onshore Properties Inc. SWN Production Company, LLC	12.50%	792/763 797/628 885/260
6)	3-L9-2	112.081250	1-313960-000 729501-000	Rodney G. Plants and Jessica J. Plants, husband and wife	Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. SWN Production Company, LLC	19.25%	818/328 824/767 891/735

See attachment

4706900210

Received
Office of Oil & Gas
MAR 03 2016

MEMORANDUM OF AGREEMENT

This Memorandum of Agreement is entered into this 13th day of October, 2015, between **SWN Production Company, LLC** (SWN), a Texas limited liability company, whose address is 10000 Energy Drive Spring, TX 77389 and **TH Exploration, LLC** (THE), a Texas limited liability company, whose address is 1320 S. University Drive, Suite 500, Fort Worth, TX 76107.

PARTIES AND AGREEMENT REFERENCE: SWN and THE entered into a letter agreement ("Letter Agreement") dated October 13, 2015 (the "Commencement Date") outlining their intent to pursue definitive agreements allowing SWN to develop those certain oil and gas interests controlled by THE in the Liberty District of Ohio County, West Virginia, dated November 6, 2014, and of record in Book 896, Page 76, in the Office of the Clerk of the County Commission of the aforesaid County and State.

Parcel Numbers: 3-L6-18.1, 3-L6-18.2, 3L6-19

1. **TERM:** The rights granted in the Letter Agreement will terminate upon the earlier of (i) one hundred eighty (180) days from the Commencement Date, or (ii) the parties entering into the definitive agreement(s) described in the Letter Agreement.

2. **MEMORANDUM FOR RECORDING PURPOSES ONLY:** This Memorandum is for recording purposes only and does not supplement or supercede the parties' respective rights set forth in the Letter Agreement.

4706900210

IN WITNESS WHEREOF, the parties have signed their names hereto as of the date first above written.

SWN PRODUCTION COMPANY, LLC.

By: Stephen M. Guidry MB pub.

Its: Vice President-Land

TH Exploration, LLC

By: Douglas L. DeMartino

Its: Land Manager - Appalachia

Received
Office of Oil & Gas
MAR 03 2016

Prepared by SWN Production Company, LLC
PO Box 12359, Spring, TX 77391

STATE OF Texas;

COUNTY OF Harris:

Before me, Daniel Townsend, a Notary Public, on this day personally appeared Stephen M. Guidry, known to me to be the Vice President - Land of SWN Production Company, LLC, subscribed to the foregoing instrument, and acknowledged to me that he/she executed the instrument for the purposes and consideration therein expressed as his/her free act and deed. Given under my hand and seal of office this 13 day of October, 2015. My Commission expires: May 29, 2019.

[SEAL]

DANIEL TOWNSEND
Notary Public, State of Texas
My Commission Expires
May 29, 2019

Notary Public

4706900210

STATE OF PENNSYLVANIA;

COUNTY OF WASHINGTON:

Before me, DAVID G. DELALLO, a Notary Public, on this day personally appeared DOUGLAS L. DEMARTINO, known to me to be the LAND MANAGER - APPALACHIA of TH EXPLORATION, LLC, subscribed to the foregoing instrument, and acknowledged to me that he/she executed the instrument for the purposes and consideration therein expressed as his/her free act and deed. Given under my hand and seal of office this 10 day of DECEMBER, 2015. My Commission expires: FEB. 16, 2016.

Received
Office of Oil & Gas
MAR 03 2016

[SEAL]

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
David Gabriel DeLallo, Notary Public
Cecil Township, Washington County
My Commission Expires February 16, 2016

Notary Public

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

4706900210

January 25, 2015

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

RE: SWN's proposed Gary Kestner Gary Kestner OHI 6H in Ohio County, West Virginia, Drilling under Atkinson Potomac Hill 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 Atkinson Potomac Hill 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,

Courtney A. Graviett

Courtney A. Graviett
Landman
SWN Production Company, LLC
PO Box 1300
Jane Lew, WV 26378

Received
Office of Oil & Gas
MAR 03 2016

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

CONSOL Energy Inc.
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

phone: 724.485.3467
fax: 724.485.4841
e-mail: CaseySaunders@consolenergy.com
web: www.consolenergy.com

CASEY V. SAUNDERS
Senior Project Engineer

March 4, 2016

470690

Mr. James Martin
West Virginia Department of Environmental Protection
601 57th Street
Office of Oil & Gas
Charleston, West Virginia 25304

RE: Southwestern Energy Production Company, LLC Proposed Gary Kestner OHI 6H Well

Dear Mr. Martin,

Windsor Coal Company does not object to the Southwestern Energy Production Company, LLC well drilling application for the above referenced proposed well. Attached is the voluntary statement of no objection form WW-6AW. If you have any questions or require additional information, please contact me at 724-485-3467.

Sincerely,

Casey V. Saunders
Senior Project Engineer

RECEIVED
Office of Oil and Gas
MAR 10 2016
WV Department of
Environmental Protection

WW-6AW
(1-12)

API NO. _____
OPERATOR WELL NO. Gary Kestner OHI 6H
Well Pad Name: Gary Kestner

4706900210

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

VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A
The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions
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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided,* That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Casey V. Saunders, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	WVSPN NAD 27	Easting:	1,708,856.010
County:	Ohio		Northing:	602,138.144
District:		Public Road Access:		
Quadrangle:	BEVERLY WEST	Generally used farm name:		
Watershed:				

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials, **provided that Southwestern Energy Production Company, LLC drills the well on WV North NAD27 coordinates of North 602,138.144, East 1,708,856.010. This statement does not serve as notice that Windsor Coal Company has waived its rights to mine all the coal or accept any responsibility for any damage to the well or surface facilities associated with the well by Windsor Coal Company mining activity. This Voluntary Statement of No Objection does not waive Windsor Coal Company's Common Law Property Rights in the State of West Virginia.**

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON
☐ SURFACE OWNER	Signature:
☐ SURFACE OWNER (Road and/or Other Disturbance)	Print Name:
☐ SURFACE OWNER (Impoundments/Pits)	Date:
☒ COAL OWNER OR LESSEE	FOR EXECUTION BY A CORPORATION, ETC. Company: Windsor Coal Company
☒ COAL OPERATOR	By: Casey V. Saunders Its: Senior Project Engineer
☐ WATER PURVEYOR	Signature: Casey V. Saunders Date: 5/24/2016
☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD	

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.

WW-6AC
(1/12)

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

Date of Notice Certification: 3/2/16

API No. 47- 69 -
Operator's Well No. Gary Kestner OHI 6H
Well Pad Name: Gary Kestner 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:	WV	UTM NAD 83	Easting:	539072.731
County:	69- Ohio		Northing:	4444352.343
District:	3- Liberty	Public Road Access:		Greggsville, Clinton & Potomac Road
Quadrangle:	247- Bethany	Generally used farm name:		Gary Kestner
Watershed:	Upper Ohio North			

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

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

4706900210

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.

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WW-6AC
(1/12)

Certification of Notice is hereby given:

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

Well Operator:	SWN Production Co., LLC	Address:	P.O. Box 12359
By:	Dee Southall		Spring, TX 77391-4954
Its:	Regulatory Supervisor	Facsimile:	304-471-2497
Telephone:	832-796-1614	Email:	Dee_Southall@swn.com

OFFICIAL SEAL
NOTARY SEAL
Notary Public, State of West Virginia
BRITTANY R WOODY
3302 Old Elkins Road
Buckhannon, WV 26201
My commission expires November 27, 2022

Subscribed and sworn before me this 19th day of January 2016

Brittany R Woody Notary Public

My Commission Expires 11/27/22

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.

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WW-6A
(9-13)

API NO. 47- 69 -
OPERATOR WELL NO. Gary Kestner OHI 6H
Well Pad Name: Gary Kestner 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: 3/2/14 **Date Permit Application Filed:** 3/2/14

Notice of:

☑ PERMIT FOR ANY WELL WORK

☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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: Gary & Terry Kestner
Address: 1787 Rock Woods Road
Valley Grove, WV 26060
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: Windsor Coal Company
Address: 1000 Consol Energy Drive
Charleston, WV 25304

☐ 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:

*Please attach additional forms if necessary

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LANDOWNER	SOURCE	Address
John Tominack x8	Spring	1188 Rock Woods Road Valley Grove WV 26060 ✓
Gary Kestner x1	Spring	1787 Rock Woods Road Valley Grove WV 26060 ✓

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(8-13)

API NO. 47- 69 -
OPERATOR WELL NO. Gary Kestner OHI 6H
Well Pad Name: Gary Kestner PAD

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

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

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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 or determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

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

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

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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.**

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(8-13)

API NO. 47- 69 -
OPERATOR WELL NO. Gary Kestner OHI 6H
Well Pad Name: Gary Kestner PAD

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

(1) The proposed well work will constitute a hazard to the safety of persons;
(2) The plan for soil erosion and sediment control is not adequate or effective;
(3) Damage would occur to publicly owned lands or resources; or
(4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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Office of Oil & Gas
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WW-6A
(8-13)

API NO. 47- 69 -
OPERATOR WELL NO. Gary Kestner OHI 6H
Well Pad Name: Gary Kestner PAD

Notice is hereby given by:

Well Operator: SWN Production Co., LLC
Telephone: 304-884-1613
Email: Dee_Southall@swn.com

Address: P.O. Box 1300
Jane Lew, WV 26378
Facsimile: 304-471-2497

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.

OFFICIAL SEAL
Notary Public, State of West Virginia
BRITTANY R WOODY
3302 Old Elkins Road
Buckhannon, WV 26201
My commission expires November 27, 2022

Subscribed and sworn before me this 19th day of January 2016

Brittany R Woody Notary Public

My Commission Expires 11/27/2022

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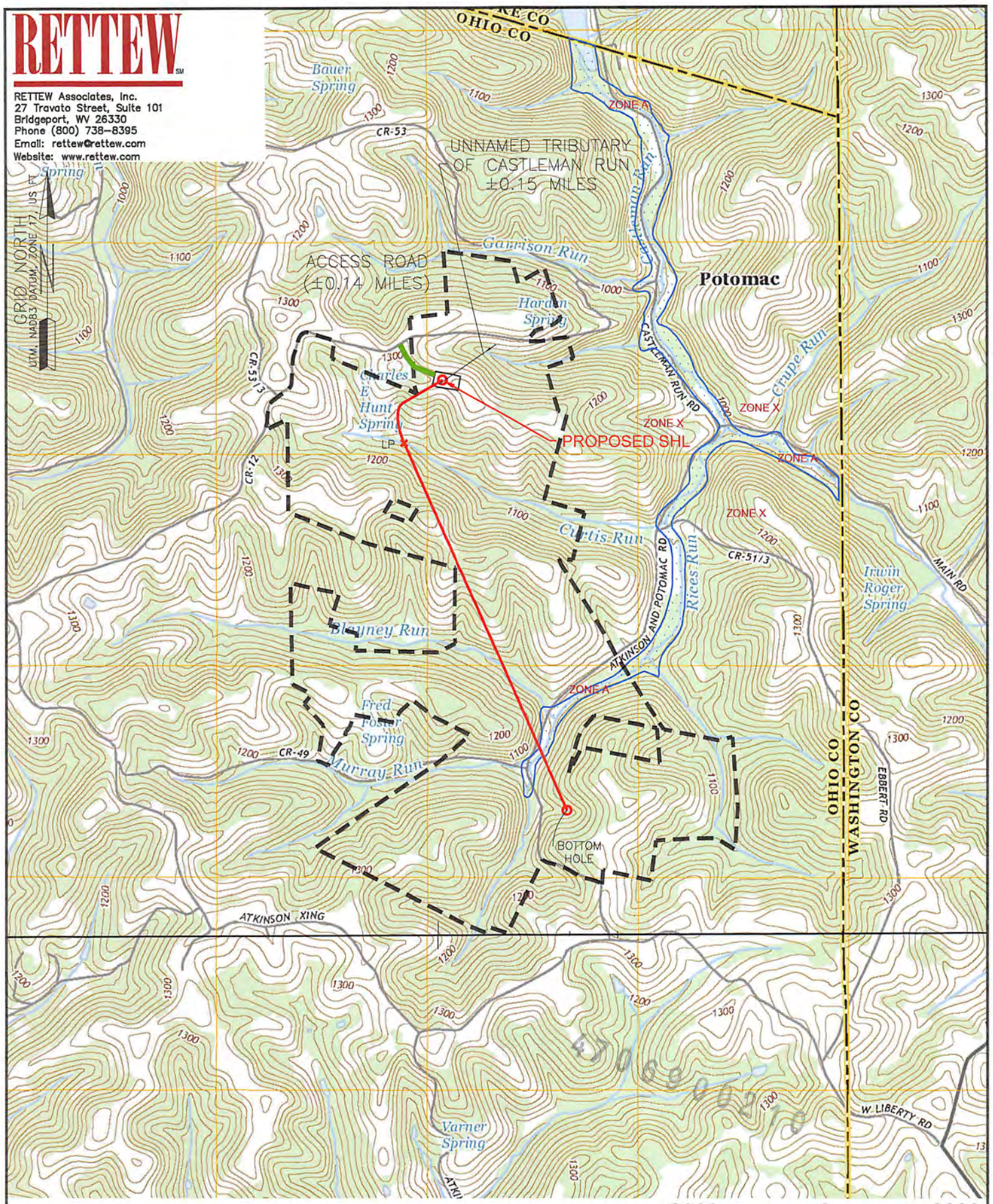
RETTEW
RETTEW Associates, Inc.
27 Travato Street, Suite 101
Bridgeport, WV 26330
Phone (800) 738-8395
Email: rettew@rettew.com
Website: www.rettew.com



WELL: GARY KESTNER OHI, 6H
QUAD: BETHANY & WALLEY GROVE, WV

NAME AND DISTANCE TO THE NEAREST STREAM:	STREAM CROSSING COORDINATES (NAD 83):
UN-NAMED TRIBUTARY OF CASTLEMAN RUN IS LOCATED ±0.15 MILES NORTH EAST OF THE CENTER OF THE DRILL PAD.	NO NEW CROSSINGS.

WELL RESTRICTIONS:

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 LAGER THAN 2500 SQ FT: >625 FEET

FEMA FLOOD INFORMATION:

BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF OHIO COUNTY, WEST VIRGINIA; MAP NUMBER 54069C0040D, 54069C0045D, & 54069C0050D; EFFECTIVE DATE: JULY 17, 2006.

FLOOD ZONE A & X ARE SITUATED WITHIN THE UNIT.

COMPANY: SWN Production Company, LLC — SWN Production Company™

OPERATOR'S WELL #: GARY KESTNER OHI 6H

LOCATION: LIBERTY DISTRICT, OHIO COUNTY, WEST VIRGINIA

SURFACE HOLE LOCATION:

GEOGRAPHIC (NAD83):
LATITUDE: 40.148605°
LONGITUDE: -80.541264°

BOTTOM HOLE LOCATION:

GEOGRAPHIC (NAD83):
LATITUDE: 40.130260°
LONGITUDE: -80.534454°

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Office of Oil
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LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LEASE BOUNDARY
- ACCESS ROAD
- MARCELLUS DHP
- HIGHWAY/INTERSTATE
- COUNTY ROAD

REVISIONS:	DATE: 01-25-2016
	DRAWN BY: B. HERMAN
	SCALE: 1" = 2000'
	DRAWING NO:087569022
	TOPOGRAPHIC MAP

PROPERTY NUMBER 2501163412
PAD ID 3001155487

WW-6A4
(1/12)

Operator Well No. Gary Kestner OHI 6H

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: 01/04/2016 **Date Permit Application Filed:** 3/2/16

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: Gary and Terry Kestner
Address: 1787 Rock Woods Rd
Valley Grove, WV 26060

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:	West Virginia	UTM NAD 83	Easting:	539,072.731
County:	Ohio		Northing:	4,444,352.343
District:	Liberty	Public Road Access:		Greggsville Clinton & Potomac Road
Quadrangle:	Bethany	Generally used farm name:		
Watershed:	Castleman Run			

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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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	SWN Production Company, LLC	Authorized Representative:	Steve Perkins
Address:	PO Box 1300, 179 Innovation Drive	Address:	PO Box 1300, 179 Innovation Drive
	Jane Lew, WV 26378		Jane Lew, WV 26378
Telephone:	304-884-1615	Telephone:	304-884-1615
Email:	Steve_Perkins@swn.com	Email:	Steve_Perkins@swn.com
Facsimile:		Facsimile:	

Oil and Gas Privacy Notice:

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

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WW-6A5
(1/12)

Operator Well No. Gary Kestner OHI 6H

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: 01/04/2016 **Date Permit Application Filed:** 3/2/16

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

☒ CERTIFIED MAIL RETURN RECEIPT REQUESTED ☐ HAND 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: Gary and Terry Kestner
Address: 1787 Rock Woods Rd
Valley Grove, WV 26060

Name:
Address:

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: West Virginia
County: Ohio
District: Liberty
Quadrangle: Bethany
Watershed: Castleman Run

UTM NAD 83 Easting: 539,072.731
Northing: 4,444,352.343
Public Road Access: Greggsville Clinton & Potomac Road
Generally used farm name:

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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: SWN Production Company, LLC
Telephone: 304-884-1615
Email: Steve_Perkins@swn.com

Address: PO Box 1300, 179 Innovation Drive
Jane Lew, WV 26378
Facsimile: 304-472-4225

Received
Office of Oil & Gas
MAR 03 2016

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.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways
1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin
Governor

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

July 1, 2015

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

Subject: DOH Permit for the Gary Kestner Pad, Ohio County
Gary Kestner OHI 6H

Dear Mr. Martin,

The West Virginia Division of Highways has transferred Permit #06-2011-0058 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Ohio County Route 12 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,

4706900211

Gary K. Clayton

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

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

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MAR 03 2016

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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MAR 03 2016

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	Corsslinker	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
Supplier Name	Product Name	Product Use	Chemical Name	CAS Number

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MAR 03 2016

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

WW-6A7
(6-12)

OPERATOR: SWN Production Co., LLC WELL NO: Gary Kestner OHI 6H

PAD NAME: Gary Kestner PAD

REVIEWED BY: _____ SIGNATURE: _____

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

*Pad Built 6/3/11

Well Restrictions

- [ ] At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
  - [ ] DEP Waiver and Permit Conditions
- [ ] At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
  - [ ] DEP Waiver and Permit Conditions
- [ ] At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
  - [ ] DEP Waiver and Permit Conditions
- [ ] At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
  - [ ] Surface Owner Waiver and Recorded with County Clerk, OR
  - [ ] DEP Variance and Permit Conditions
- [ ] At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
  - [ ] Surface Owner Waiver and Recorded with County Clerk, OR
  - [ ] DEP Variance and Permit Conditions
- [ ] At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
  - [ ] Surface Owner Waiver and Recorded with County Clerk, OR
  - [ ] DEP Variance and Permit Conditions

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Office of Oil & Gas
MAR 03 2016

WEST VIRGINIA 811

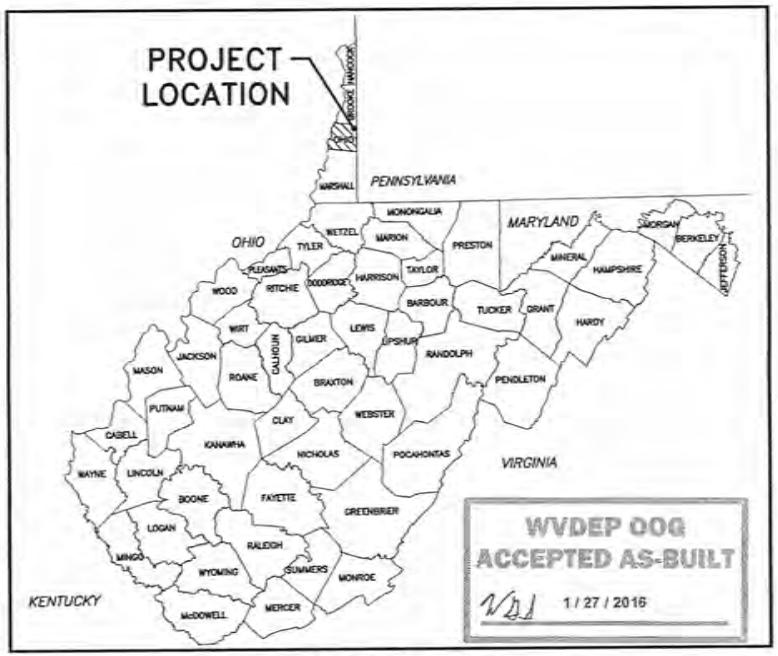
CALL BEFORE YOU DIG! Dial 811 or 800.245.4848

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENDS AND HOLIDAYS), PRIOR TO TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTACT MISS UTILITY OF WEST VIRGINIA AT 811 OR 1-800-245-4848.

AS-BUILT SITE PLAN
FOR
GARY KESTNER PAD "A"
LIBERTY DISTRICT, OHIO COUNTY, WV

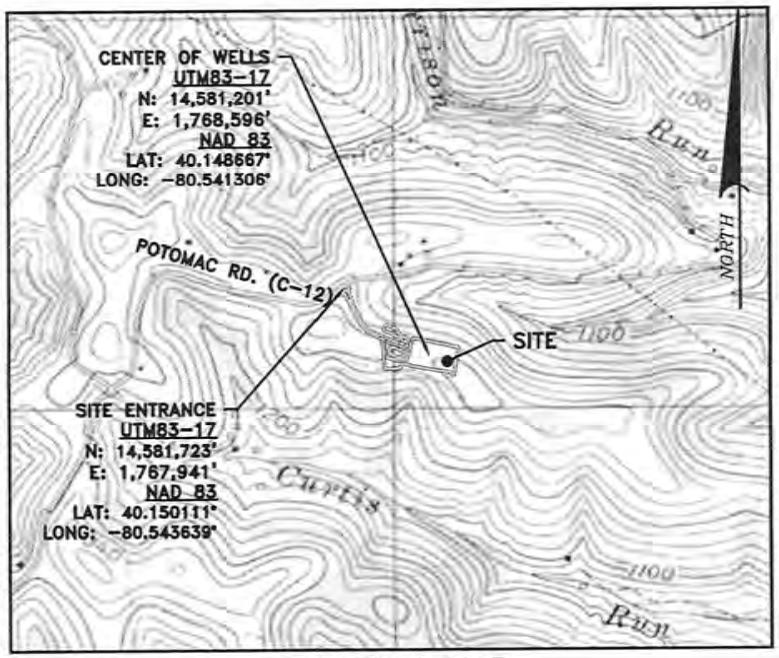
BRIAN D. SPRAY REGISTERED 20993 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

DRAWN BY: DAB
DATE: 01/11/2016
SCALE: AS SHOWN
DWG. NO. 087569022



WVDEP OOG ACCEPTED AS-BUILT
1/27/2016

COUNTY MAP
N.T.S.



LOCATION MAP
SCALE - 1"=1000'

THIS ENGINEER'S CERTIFICATION COVERS UPDATING THE GARY KESTNER PAD "A" TO CURRENT WEST VIRGINIA STANDARDS AND COVERS ONLY THE ADDITION OF THE CONTAINMENT BERM, MOUNTABLE BERM AT THE PAD ENTRANCE AND THE RECLAMATION PLAN.

PRINTED NAME: BRIAN D. SPRAY, PE

SIGN NAME: _____

swn Southwestern Energy

OPERATOR
SWN PRODUCTION CO., LLC
P.O. BOX 1300
JANE LEW, WV 26378
(832) 796-1610

LIST OF DRAWINGS

TS1.1 . . . . . COVER SHEET
EP2.1 . . . . . EVACUATION ROUTE/PREVAILING WINDS
EP2.2 . . . . . EVACUATION ROUTE/PREVAILING WINDS
AS3.1 . . . . . AS-BUILT OVERALL SITE PLAN
AS3.2 . . . . . AS-BUILT SITE PLAN
AS3.3 . . . . . AS-BUILT SITE PLAN
CRA4.1 . . . . . ACCESS ROAD PROFILE
CRA4.2 . . . . . WELL PAD CROSS SECTIONS
MRP5.1 . . . . . OVERALL RECLAMATION PLAN
MRP5.2 . . . . . RECLAMATION PLAN
MRP5.3 . . . . . RECLAMATION PLAN
MRD6.1 . . . . . DETAILS
MRD6.2 . . . . . DETAILS
MRD6.3 . . . . . DETAILS

SITE DATA
TOTAL DISTURBED AREA: 8.0 ACRES
ROAD DISTURBED AREA: 2.5 ACRES
PAD DISTURBED ACRES: 5.5 ACRES
ACCESS ROAD LENGTH: 787'
ACCESS ROAD AVERAGE WIDTH: 20'
WELL PAD ELEVATION: 1292.0'

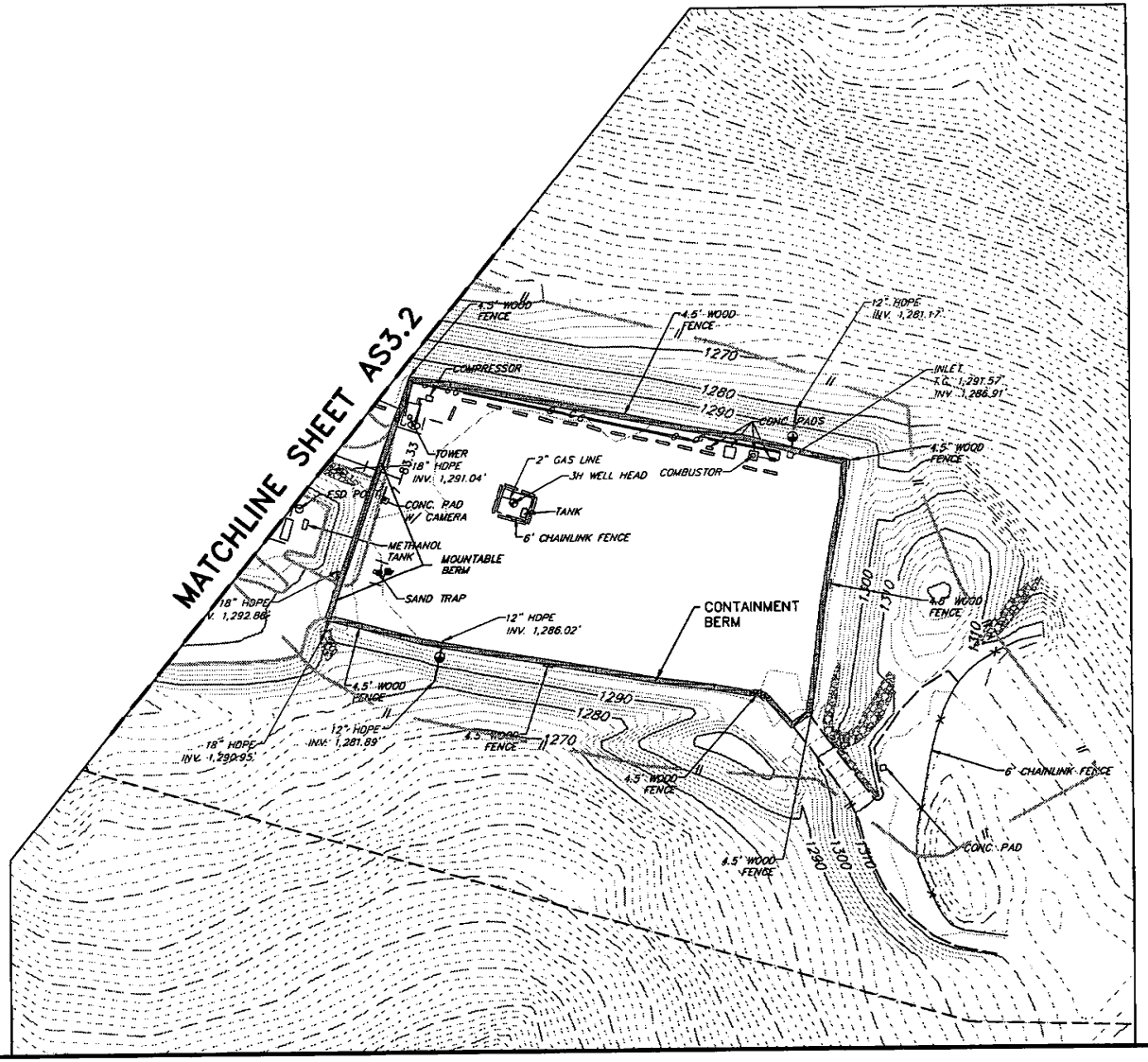
WELL API NUMBERS

3H	API 069-00081		
CELLAR DIAMETER	CELLAR DEPTH	CELLAR MATERIAL	
8 FT	8 FT	CMP	

TS1.1

RETTEW
RETTEW Associates, Inc.
One Robinson Plaza, 6600 Steubenville Pike, Suite 200, Pittsburgh, PA 15205
Phone (412) 446-1728 · Fax (412) 446-1733
Engineers · Planners · Surveyors · Landscape Architects · Environmental Consultants

COVER SHEET FOR GARY KESTNER PAD "A"
LIBERTY DISTRICT OHIO COUNTY, WV



NORTH UTM83 ZONE 17

BRIAN D. SERAY REGISTERED 20993 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

DRAWN BY: DAB
DATE: 01/11/2016
SCALE: 1"=100'
DWG. NO. 087569022

LEGEND

- LIMIT OF DISTURBANCE
- EXISTING CHAIN-LINK FENCE
- EXISTING CONTOUR LINE
- EXISTING TREELINE
- AS-BUILT MAJOR CONTOUR LINE (1450)
- AS-BUILT MINOR CONTOUR LINE
- EXISTING WELL HEAD
- EDGE OF GRAVEL

WVDEP OOG
ACCEPTED AS-BUILT
1/27/2016

SCALE
1"=100'
0 50' 100' 200' 300'

AS3.3

RETTEW
RETTEW Associates, Inc.
One Robinson Plaza, 6800 Steubenville Pike, Suite 200,
Pittsburgh, PA 15205
Phone (412) 446-1728 - Fax (412) 446-1733
Engineers • Planners • Surveyors • Landscape Architects
Environmental Consultants

AS-BUILT SITE PLAN
FOR
GARY KESTNER PAD "A"
LIBERTY DISTRICT OHIO COUNTY, WV

E PLAN

1-29-16

ER PAD "A"

IO COUNTY, WV

4706900210

BRIAN D. SPRAY
REGISTERED
20993
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER

DRAWN BY: DAB
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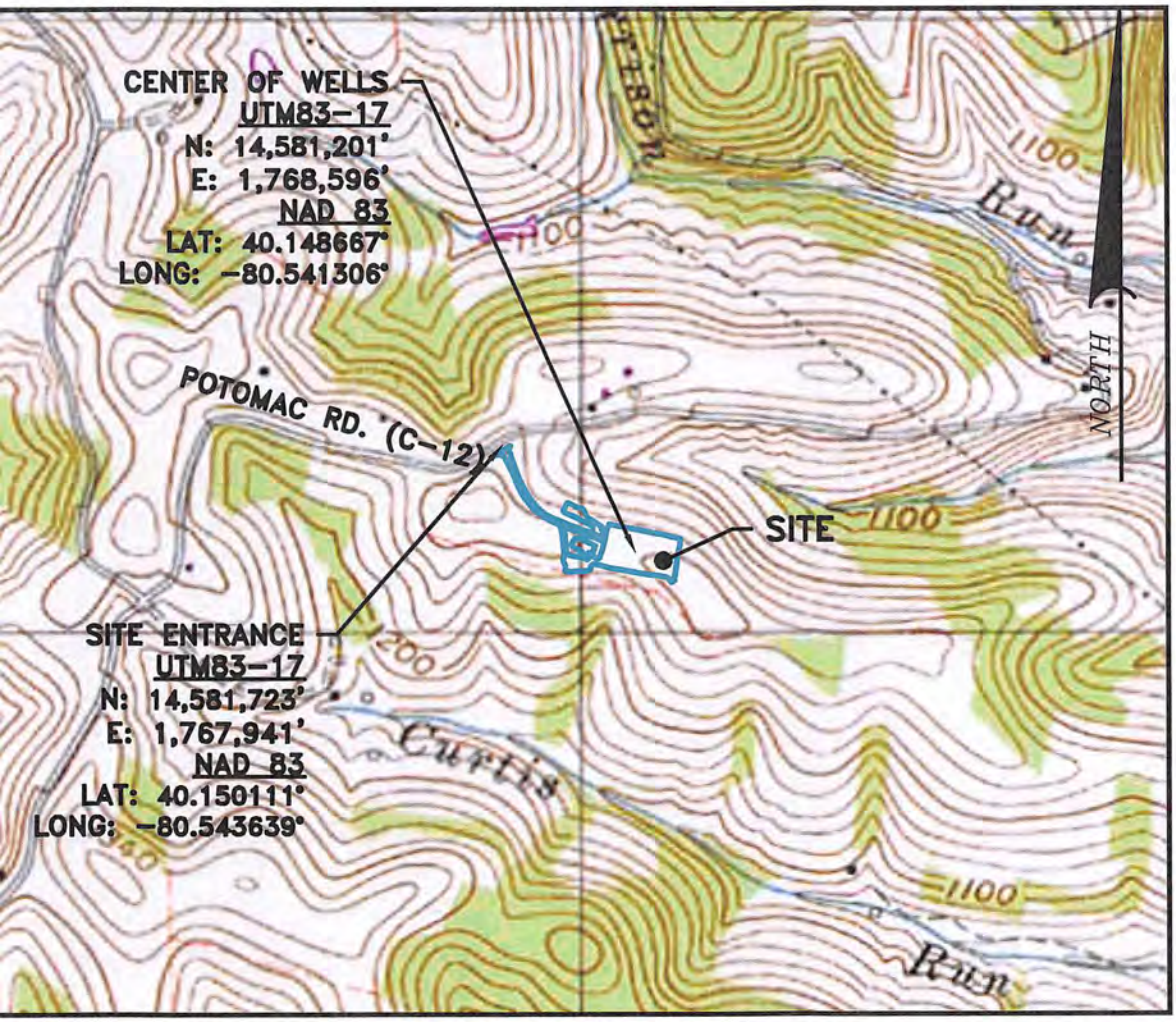

LOCATION MAP

SCALE – 1"=1000'

AWINGS

HEET
ON ROUTE/PREVAILING WINDS
ON ROUTE/PREVAILING WINDS
OVERALL SITE PLAN
SITE PLAN
SITE PLAN
ROAD PROFILE
CROSS SECTIONS
RECLAMATION PLAN
TION PLAN
TION PLAN

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8 FT	8 FT	CMP

TS1.1

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COVER SHEET
FOR
GARY KESTNER PAD "A"
LIBERTY DISTRICT
OHIO COUNTY, WV

WEST VIRGINIA 811

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Miss Utility of West Virginia

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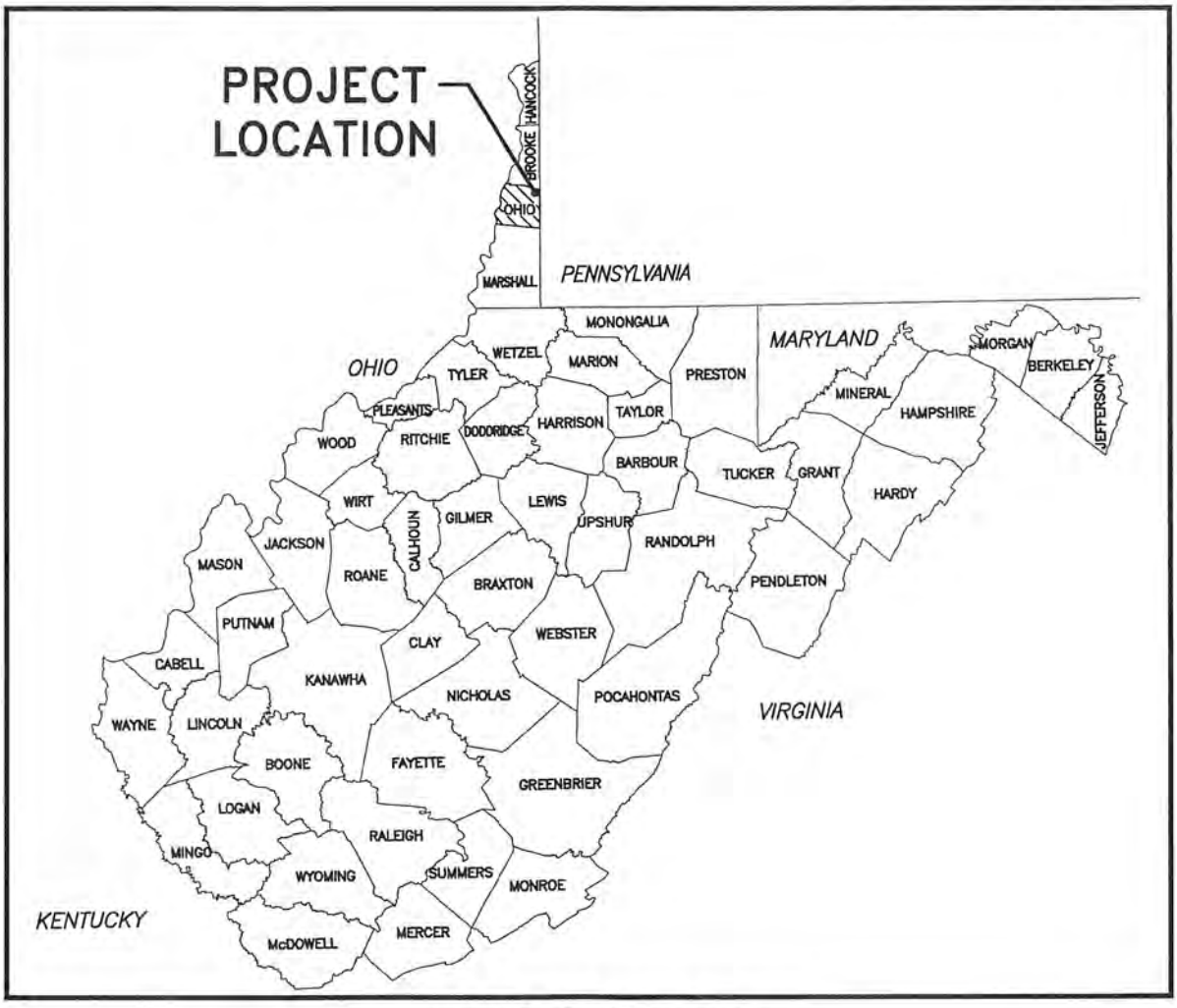
AS-BUILT SIT

FOR

GARY KESTN

LIBERTY DISTRICT, OH



COUNTY MAP

N.T.S.

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PRINTED NAME: BRIAN D. SPRAY, PE

SIGN NAME: _____

swn Southwestern Energy®

OPERATOR

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LIST OF DR

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MRP5.2 . . . . . RECLAMA
MRP5.3 . . . . . RECLAMA
MRD6.1 . . . . . DETAILS
MRD6.2 . . . . . DETAILS
MRD6.3 . . . . . DETAILS