



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

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

Friday, November 2, 2018
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC
POST OFFICE BOX 12359
SPRING, TX 773914954

Re: Permit Modification Approval for SANDRA PARR BRK 5H
47-009-00245-00-00

Extend lateral with lease(s) updated

SWN PRODUCTION COMPANY, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: SANDRA PARR BRK 5H
Farm Name: ANTHONY BRUCE PARR, ET AL
U.S. WELL NUMBER: 47-009-00245-00-00
Horizontal 6A New Drill
Date Modification Issued: 11/02/2018

Promoting a healthy environment.

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 009- Brooke 3-Buffalo 247-Bethany
Operator ID County District Quadrangle

2) Operator's Well Number: Sandra Parr BRK 5H Well Pad Name: Sandra Parr BRK Pad

3) Farm Name/Surface Owner: Anthony Bruce Parr, ET AL Public Road Access: Atchison Road

4) Elevation, current ground: 1276' Elevation, proposed post-construction: 1276'

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Marcellus, Up-Dip Well to the North, Target Top TVD- 6426', Target Base TVD- 6471', Anticipated Thickness- 45', Associated Pressure- 4206

8) Proposed Total Vertical Depth: 6451'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 20567'

11) Proposed Horizontal Leg Length: 13644.53'

12) Approximate Fresh Water Strata Depths: 336'

13) Method to Determine Fresh Water Depths: Nearby Spring

14) Approximate Saltwater Depths: 759' Salinity Profile _____

15) Approximate Coal Seam Depths: 613'

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

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

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WW-6B
(04/15)

API NO. 47- 009
OPERATOR WELL NO. Sandra Parr BRK 5H
Well Pad Name: Sandra Parr BRK 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#	436'	436'	424 sx/CTS
Coal							
Intermediate	9 5/8"	New	J-55	36#	2026'	2026'	787 sx/CTS
Production	5 1/2"	New	HCP-110	20#	20567'	20567'	Lead 803nd Tub 3449nd Injct 5000
Tubing							
Liners							

C. Hill 7-2-18

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

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. Run casing not less than 20' below void nor more than 75' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

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

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. The well is produced through surface facilities consisting of high pressure production unites, vertical separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 20.37

22) Area to be disturbed for well pad only, less access road (acres): 4.78

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

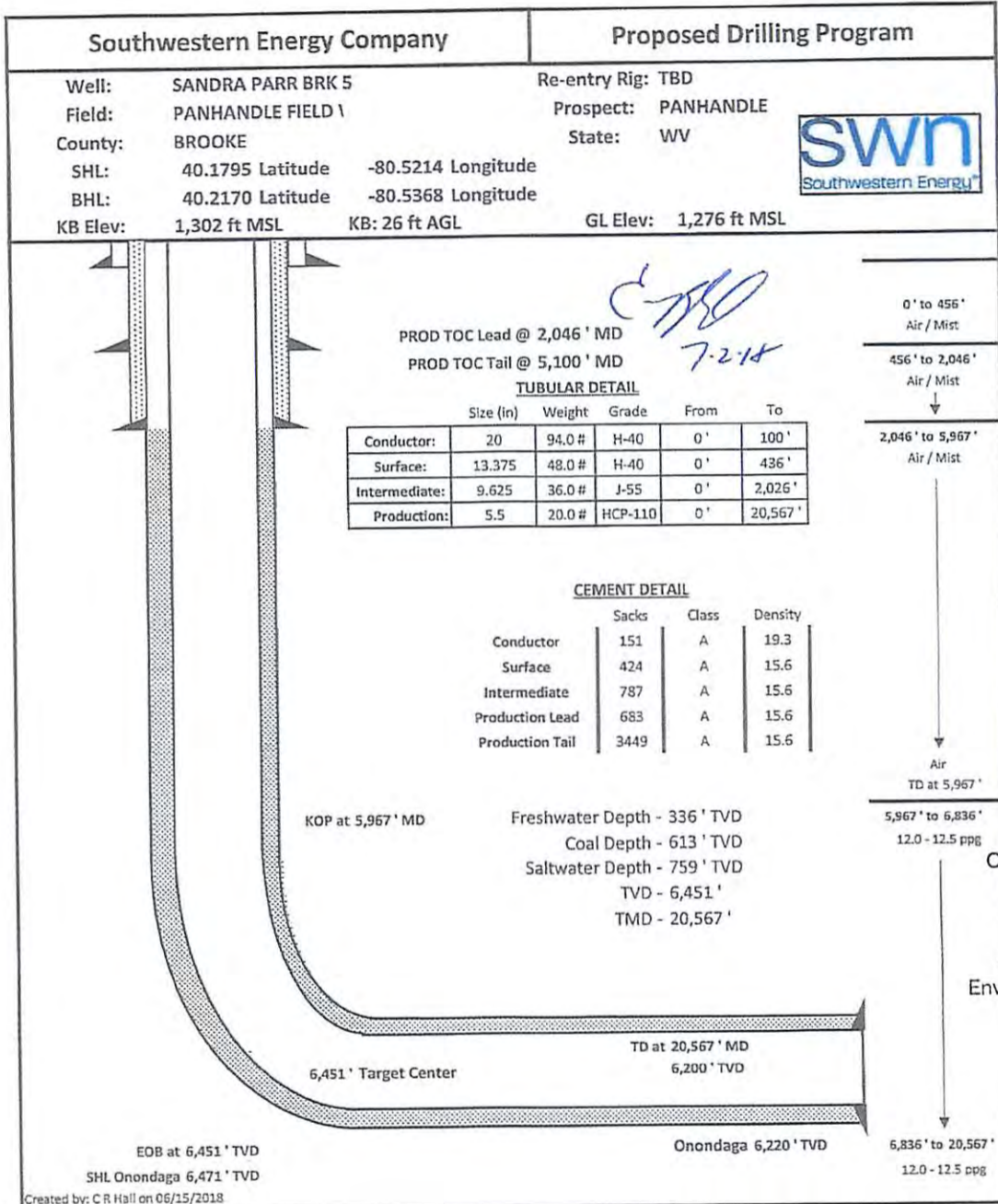
24) Describe all cement additives associated with each cement type:

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.

*Note: Attach additional sheets as needed.



WW-6A1
(5/13)

Operator's Well No. Sandra Parr BRK 5H

**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 Attached Exhibit "A"				

**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

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

Well Operator: SWN Production Company, L.L.C.

By: _____

Its: _____

Staff Landman

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator
 Sandra Parr BRK 5H
 Brooke County, West Virginia

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#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG
1)	03-0B49-0005-0000-0000	John L. Latimer and Angela Latimer and Deborah S. Starr	Phillips Production Company Great Lakes Energy Partners, LLC Range Resources - Appalachia, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC ✓	18.00%	9/85 9/395 20/733 10/552 30/480
2)	03-0B44-0014-0000-0000	Bethany College, a Coporation, f/k/a The Trustees of Bethany College, f/k/a The Trustees of Bethany College, a Corporation	Chesapeake Appalachia, LLC SWN Production Company, LLC ✓	18.00%	15/239 30/480
3)	Bethany Pike	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, LLC SWN Production Company, LLC ✓	15.00%	18/723 30/480
4)	03-0B44-0005-0000-0000	Forney and Sons Holding Company, L.L.C.	Chesapeake Appalachia, LLC SWN Production Company, LLC ✓	12.50%	29/723 31/288
5)	03-0B43-0028-0000-0000	Bounty Minerals, LLC Bounty Minerals, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC ✓	18.00%	27/55 30/480 42/404
6)	03-0B44-0007-0000-0000	Curtis Lee Neel and LouAnn L. Neel, husband and wife, JTWROS	SWN Production Company, LLC	18.00%	32/705
7)	03-0B39-0011-0000-0000	Raymond L. Treadway, Sr. and Lindsey G. Treadway, JTWROS	Chesapeake Appalachia, LLC SWN Production Company, LLC ✓	18.00%	12/187 30/480

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8)	03-0839-0010-0000-0000	James K. Seabright and Matha May Seabright, husband and wife, and James H. Seabright and Ceceleia M. Seabright, husband and wife	Chesapeake Appalachia, LLC SWN Production Company, LLC ✓	18.00%	14/581 30/480
		Mary J Burton, widow	Chesapeake Appalachia, LLC SWN Production Company, LLC ✓	14.00%	26/229 30/480
		Naomi Madelyn Jones, widow	Chesapeake Appalachia, LLC SWN Production Company, LLC ✓	14.00%	26/235 30/480
		Pamela Doreen Burlingame, widow	Chesapeake Appalachia, LLC SWN Production Company, LLC ✓	18.00%	26/261 30/480
		Linda Lee Roberts, married dealing in her sole and separate property Colonial Corporation	Chesapeake Appalachia, LLC SWN Production Company, LLC ✓	14.00%	26/267 30/480
			Range Resources - Appalachia, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC ✓	14.00%	10/247 10/552 30/480

June 21, 2018

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

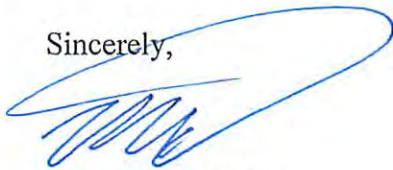
RE: SWN's proposed Sandra Parr BRK 5H in Brooke County, West Virginia, Drilling under Rt. 331, Rt. 32/3 and Camp Run Road.

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 Rt. 331, Rt. 32/3 and Camp Run 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,



Michael H. Wilder
Staff Landman
SWN Production Company, LLC

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$\frac{R^2}{A} \rightarrow V^+$

Latitude: 40°12'30" SURFACE HOLE 5987'

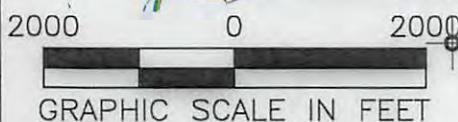
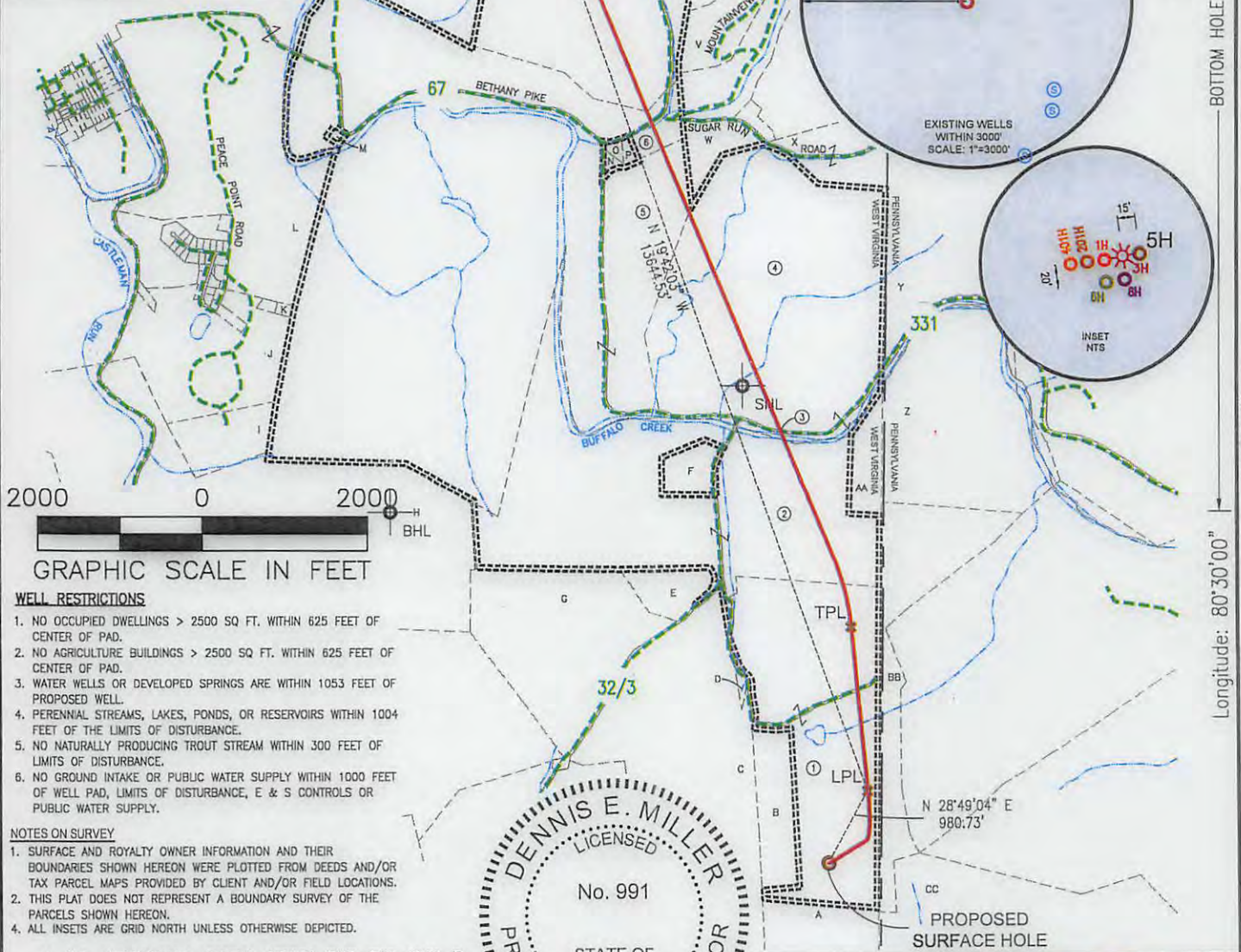


CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
600 MARKETPLACE AVENUE, SUITE 200
BRIDGEPORT, WV 26330
304-933-3119

Table with 4 rows: SURFACE HOLE LOCATION (SHL), LANDING POINT (LPL), TURNING POINT LOCATION (TPL), BOTTOM HOLE LOCATION (BHL). Each row contains UTM coordinates (NAD83, ZONE 17, METERS) for Northing and Easting.

Latitude: 40°15'00"

BOTTOM HOLE 10266'



- WELL RESTRICTIONS: 1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD. 2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD. 3. WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 1053 FEET OF PROPOSED WELL. 4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 1004 FEET OF THE LIMITS OF DISTURBANCE. 5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE. 6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

- NOTES ON SURVEY: 1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS. 2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON. 4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.



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. 991

COMPANY: SWN Production Company, LLC

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

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

SANDRA PARR BRK
OPERATOR'S WELL #: 5H
API WELL #: 47 009 00245
STATE COUNTY PERMIT

WELL TYPE: OIL [] WASTE DISPOSAL [] PRODUCTION [x] DEEP [] GAS [x] LIQUID INJECTION [] STORAGE [] SHALLOW [x]
WATERSHED: BUFFALO CREEK ELEVATION: 1276.1'
DISTRICT: BUFFALO DISTRICT COUNTY: BROOKE QUADRANGLE: BETHANY
SURFACE OWNER: ANTHONY BRUCE PARR, ET AL ACREAGE: 132.00±
OIL & GAS ROYALTY OWNER: JOHN L. AND ANGELA LATIMER, HUSBAND AND WIFE, AND DEBORAH S. STARR, SINGLE ACREAGE: 132.00±
DRILL [x] DRILL DEEPER [] REDRILL [] FRACTURE OR STIMULATE [x] PLUG OFF OLD FORMATION [] PERFORATE NEW FORMATION []
CONVERT [] PLUG & ABANDON [] CLEAN OUT & REPLUG [] OTHER CHANGE [] (SPECIFY)
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6451 TVD 20567.24 TMD

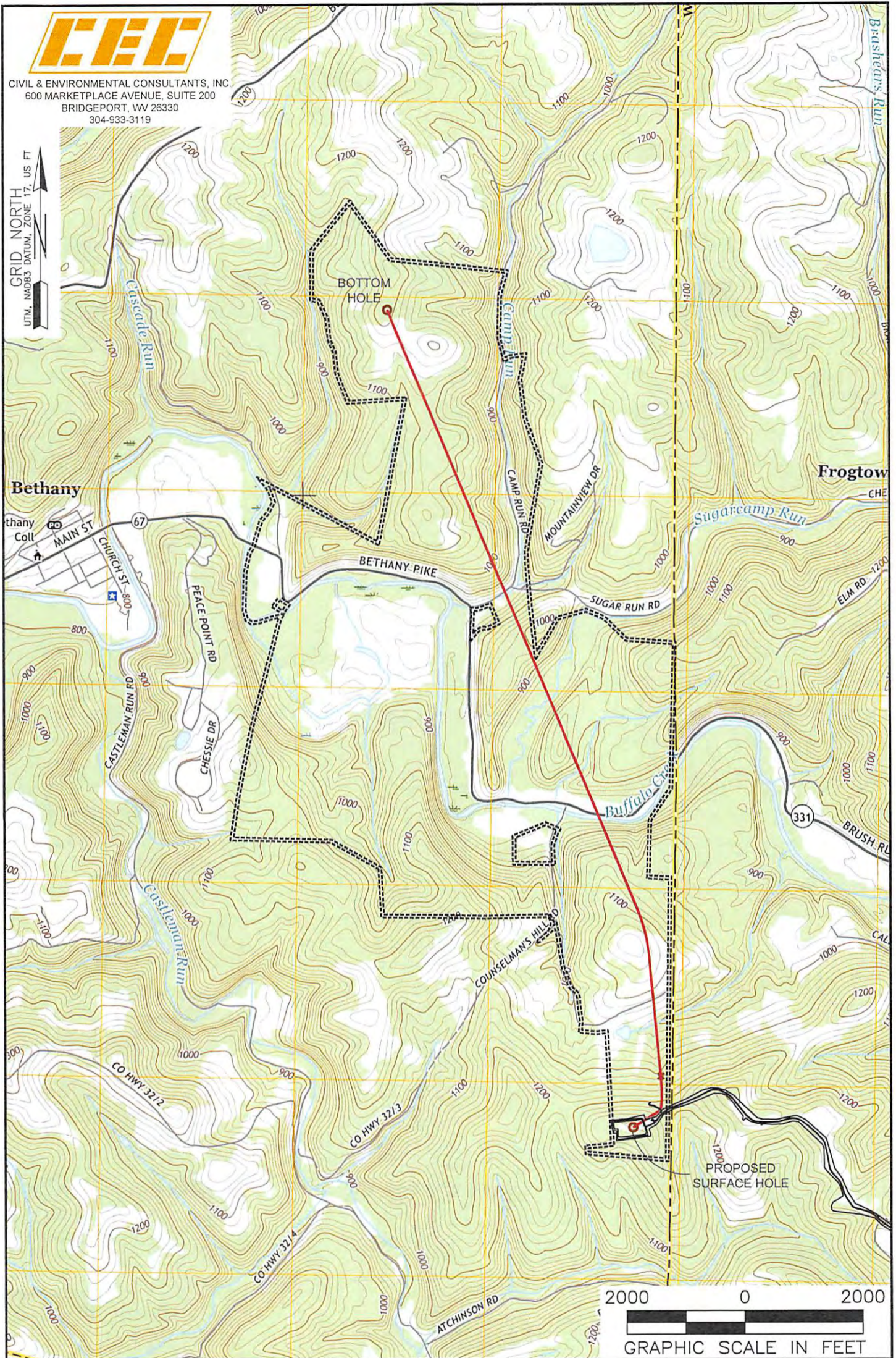
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378 CITY: JANE LEW STATE: WV ZIP CODE: 26378

Table with 2 columns: LEGEND (Proposed Surface Hole, Existing Wellhead, LPL, Existing Water Well, Existing Spring, Surveyed Boundary, Drilling Unit, Lease Boundary, Proposed Path, Turning Point Location) and REVISIONS/DATE (08-13-2018, Drawn by: K.E.S., Scale: 1" = 2000', Drawing No: 172-289, Well Location Plat)



CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
 600 MARKETPLACE AVENUE, SUITE 200
 BRIDGEPORT, WV 26330
 304-933-3119

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



NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LPL* LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

WELL OPERATOR:
 SWN PRODUCTION COMPANY, LLC
 ADDRESS:
 P.O. BOX 1300 JANE LEW, WV 26378
 SURFACE OWNER:
 ANTHONY BRUCE PARR, ET AL

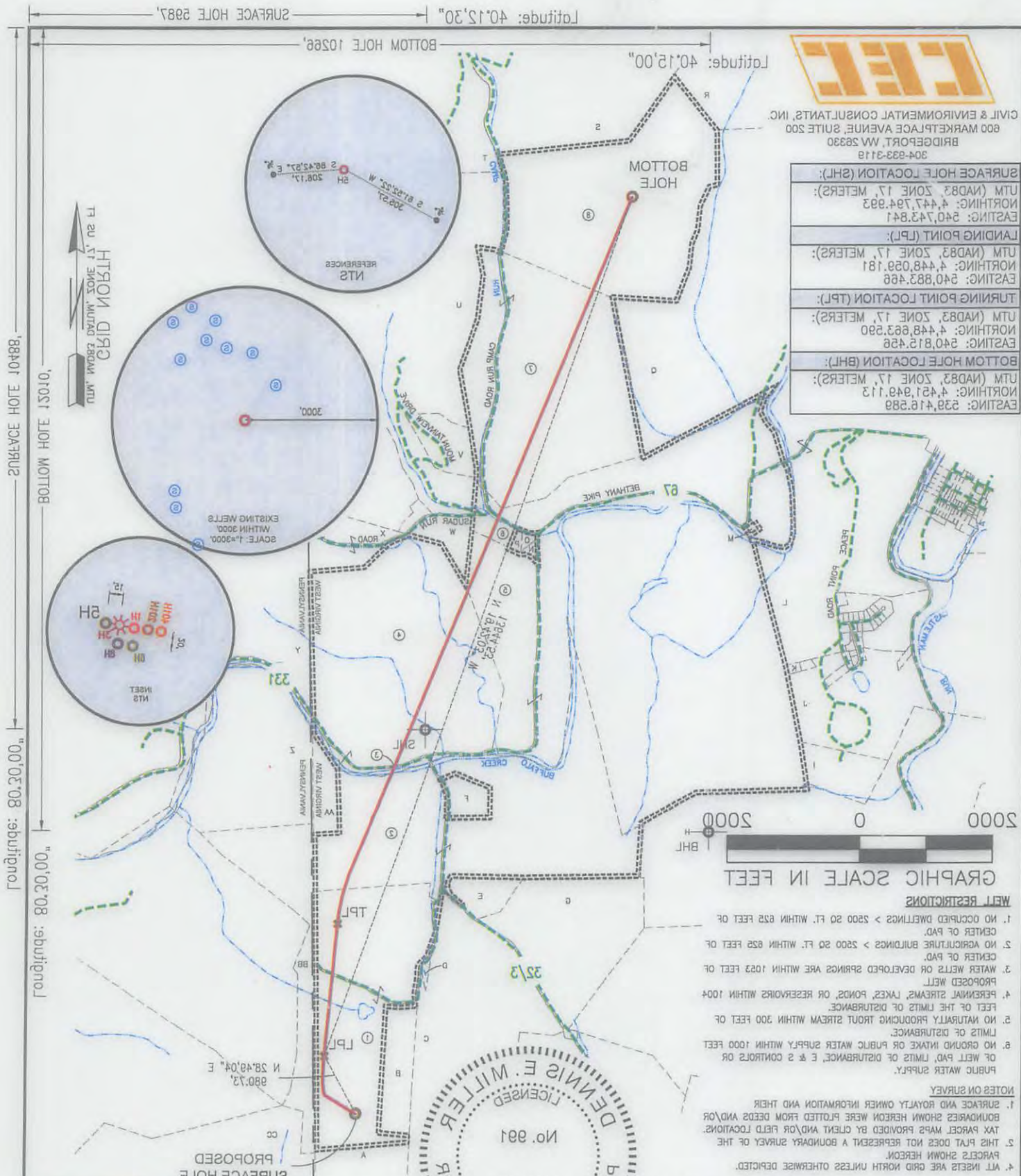
WELL (FARM) NAME:
 SANDRA PARR BRK
 COUNTY - CODE
 BROOKE - 009
 USGS 7 1/2 QUADRANGLE MAP NAME
 BETHANY, WV

WELL #	SERIAL #
5H	XXXX
DISTRICT; BUFFALO DISTRICT	



CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
800 MARKETPLACE AVENUE, SUITE 200
BRIDGEPORT, WV 26330
304-833-3118

SURFACE HOLE LOCATION (SHL):	UTM (NAD83, ZONE 17, METERS): EASTING: 540,743.841 NORTHING: 4,447,794.993
LANDING POINT (L.P.):	UTM (NAD83, ZONE 17, METERS): EASTING: 540,883.488 NORTHING: 4,448,059.181
TURNING POINT LOCATION (T.P.):	UTM (NAD83, ZONE 17, METERS): EASTING: 540,812.458 NORTHING: 4,448,863.590
BOTTOM HOLE LOCATION (BHL):	UTM (NAD83, ZONE 17, METERS): EASTING: 539,418.589 NORTHING: 4,451,949.113



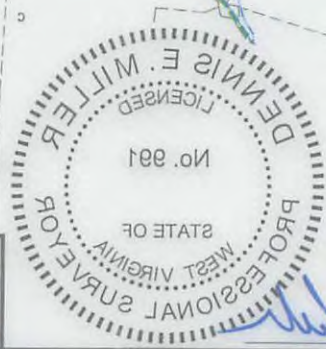
GRAPHIC SCALE IN FEET

- WELL RESTRICTIONS**
1. NO OCCUPIED DWELLINGS > 2500 SQ. FT. WITHIN 825 FEET OF CENTER OF PAD.
 2. NO AGRICULTURE BUILDINGS > 2500 SQ. FT. WITHIN 825 FEET OF CENTER OF PAD.
 3. WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 1025 FEET OF PROPOSED WELL.
 4. PERMANENT STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100+ FEET OF THE LIMITS OF DISTURBANCE.
 5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
 6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD. LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INTERSECTING GRID NORTH UNLESS OTHERWISE DEPICTED.

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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.



PRODUCTION COMPANY, LLC
SWN
SANDRA PARR BRK

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26338		DESIGNATED AGENT: BRITANNY WOODY ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26338	
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6451 TVD 20887.24 TMD		DRILL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>	
SURFACE OWNER: ANTHONY BRUCE PARR, ET AL OIL & GAS ROYALTY OWNER: JOHN L AND ANGELA LATIMER, HUSBAND AND WIFE AND DEBORAH S. STARR, SINGLE ACREAGE: 135.00±		DISTRICT: BUFFALO DISTRICT COUNTY: BROOKE WATERSHED: BUFFALO CREEK	
CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY) DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/>		WDEP OFFICE OF OIL & GAS 801 5TH STREET CHARLESTON, WV 25034	
API WELL #: 47 STATE: COUNTY: PERMIT: 00545		UNITED STATES TOPOGRAPHIC MAPS (+) DENOTES LOCATION OF WELL ON OF ACCURACY: 1/200 MINIMUM DEGREE PROVEN SOURCE GRADE GPS SURVEY	
OPERATOR'S WELL #: SH SANDRA PARR BRK		COMPANY: SWN PRODUCTION COMPANY, LLC	



CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
 600 MARKETPLACE AVENUE, SUITE 200
 BRIDGEPORT, WV 26330
 304-933-3119

WELL BORE TABLE FOR SURFACE OWNERS		
TRACT	SURFACE OWNER	TAX PARCEL
1	(S) ANTHONY BRUCE PARR, SANDRA L. PARR, RAYMOND LEE, NANCY PARR, MICHAEL MAHAN, AND PAULA MAHAN (R) JOHN L. LATIMER AND ANGELA LATIMER AND DEBORAH S. STARR	03-B49-0005
2	STATE OF WEST VIRGINIA, DEPARTMENT OF COMMERCE, DIVISION OF NATURAL RESOURCES, WILDLIFE RESOURCES SECTION	03-B44-0014
3	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	BETHANY PIKE
4	FORNEY AND SONS HOLDING COMPANY L.L.C	03-B44-0005
5	GENE CHARLES VALENTINE TRUST DATED 11/26/86	03-B43-0028
6	CURTIS LEE NEEL AND LOUANN L. NEEL, HUSBAND AND WIFE, JTWROS	03-B44-0007
7	RAYMOND L. TREDWAY, SR. AND LINDSEY G. TREDWAY, JTWROS	03-B39-0011
8	MARTHA MAY SEABRIGHT (LIFE TENANT) JAMES H. SEABRIGHT AND CECILIA M. SEABRIGHT, HUSBAND AND WIFE	03-B39-0010

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	THE RANCH SPORTSMANS CLUB, INC., BY NICK MUSTACHIO, PRESIDENT	03-B49-0010
B	ANTHONY PARR, SANDRA PARR, RAYMOND PARR, NANCY PARR, LEONARD BOYCE AND KAREN BOYCE	03-B49-0004
C	JAMES WARREN & PATRICIA MCKEEN	03-B49-0003
D	ANTHONY BRUCE PARR, SANDRA L. PARR, RAYMOND LEE PARR AND NANCY J. PARR	03-B49-0005
E	CLIFFORD E. COUNSELMAN	03-B44-0013
F	BETHANY COLLEGE	03-B44-0014.1
G	CLIFFORD E. COUNSELMAN	03-B49-0002
H	BETHANY COLLEGE	03-B43-0062
I	SAMUEL J. AND MELANIE DONINI (SURV)	03-B43-0057
J	BETHANY COLLEGE	03-B38-0031
K	MARY E. COLLINS	03-B43-0049
L	RANDY L. AND VANESSA J. COLLINS (SURV)	03-B43-0049.2
M	CLYDE B. ROBERTS	03-B43-0029
N	MORRIS G. MAIN	03-B44-0010
O	MORRIS G. MAIN	03-B44-0009
P	MORRIS G. MAIN	03-B44-0008
Q	MARK W. OWEN 1/2 INT. AND VIRGINIA BEALL KRUEZ 1/2 INT.	03-B38-0024
R	MARK W. OWEN 1/2 INT. AND VIRGINIA BEALL KRUEZ 1/2 INT.	03-B38-0019
S	JAMES K. AND MARTHA MAY SEABRIGHT	03-B39-0008
T	JAMES B. CALDWELL	03-B39-0009
U	JAMES R. AND LINDA R. GREATHOUSE	03-B39-0012
V	VICKI G. AND SHAWN P. HAMILTON	03-B44-0001
W	MILDRED MAIN	03-B44-0006
X	MILDRED MAIN	03-B44-0004
Y	CALVIN H. MYERS, JR.	370-018-00-0002-00
Z	ELIZABETH K. SCHOLLAERT	230-024-00-00-0008-00
AA	LARRY AND DEBBIE DOUGLAS	03-B44-0012
BB	ANTHONY BRUCE PARR, SANDRA L. PARR AND RAYMOND LEE PARR	230-024-00-00-0007-00
CC	ROBERT E. & JUDITH F. WRIGHT	023-00-00-0003-0

REVISIONS:	COMPANY:		
	OPERATOR'S SANDRA PARR BRK		
	WELL #:	5H	DATE: 08-13-2018
	DISTRICT:	BUFFALO DISTRICT	DRAWN BY: K.E.S.
	COUNTY:	BROOKE	SCALE: N/A
	STATE:	WV	DRAWING NO: 172-289
			WELL LOCATION PLAT 2



CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
 800 MARKETPLACE AVENUE, SUITE 200
 BRIDGEPORT, WV 26330
 304-933-3118

TRACT	SURFACE OWNER	TAX PARCEL
1	(R) JOHN L. LATIMER AND ANGELA LATIMER AND DEBORAH S. STARR (2) ANTHONY BRUCE PARR, SANDRA L. PARR, RAYMOND LEE, NANCY PARR, MICHAEL MAHAN, AND PAULA MAHAN	03-B43-0002
2	STATE OF WEST VIRGINIA, DEPARTMENT OF COMMERCE, DIVISION OF NATURAL RESOURCES, WILDLIFE RESOURCES SECTION	03-B44-0014
3	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	BETHANY PIKE
4	FORNEY AND SONS HOLDING COMPANY L.L.C.	03-B44-0002
5	GENE CHARLES VALENTINE TRUST DATED 11/28/88	03-B43-0028
6	CURTIS LEE NEEL AND LOUAIN L. NEEL, HUSBAND AND WIFE, JWROS	03-B44-0007
7	RAYMOND L. TREDWAY, SR. AND LINDSEY G. TREDWAY, JWROS	03-B39-0011
8	MARTHA MAY SEABRIGHT (LIFE TENANT) JAMES H. SEABRIGHT AND CECILIA M. SEABRIGHT, HUSBAND AND WIFE	03-B39-0010

TRACT	SURFACE OWNER	TAX PARCEL
A	THE RANCH SPORTSMANS CLUB, INC., BY NICK MUSTASCHIO, PRESIDENT	03-B43-0010
B	ANTHONY PARR, SANDRA PARR, RAYMOND PARR, NANCY PARR, LEONARD BOYCE AND KAREN BOYCE	03-B43-0004
C	JAMES WARREN & PATRICIA MCKEEN	03-B43-0003
D	ANTHONY BRUCE PARR, SANDRA L. PARR, RAYMOND LEE PARR AND NANCY J. PARR	03-B43-0008
E	CLIFFORD E. CONSELMAN	03-B44-0013
F	BETHANY COLLEGE	03-B44-0014.1
G	CLIFFORD E. CONSELMAN	03-B43-0002
H	BETHANY COLLEGE	03-B43-0082
I	SAMUEL J. AND MELANIE DOMINI (SURV)	03-B43-0027
J	BETHANY COLLEGE	03-B38-0031
K	MARY E. COLLINS	03-B43-0048
L	RANDY L. AND VANESSA J. COLLINS (SURV)	03-B43-0048.2
M	CLYDE B. ROBERTS	03-B43-0029
N	MORRIS G. MAIN	03-B44-0010
O	MORRIS G. MAIN	03-B44-0009
P	MORRIS G. MAIN	03-B44-0008
Q	MARK W. OWEN 1/2 INT. AND VIRGINIA BEALL KRUEZ 1/2 INT.	03-B38-0024
R	MARK W. OWEN 1/2 INT. AND VIRGINIA BEALL KRUEZ 1/2 INT.	03-B38-0019
S	JAMES K. AND MARTHA MAY SEABRIGHT	03-B39-0008
T	JAMES B. CALDWELL	03-B39-0009
U	JAMES R. AND LINDA R. GREATHOUSE	03-B39-0012
V	VICKI G. AND SHAWN P. HAMILTON	03-B44-0001
W	MILDRED MAIN	03-B44-0008
X	MILDRED MAIN	03-B44-0004
Y	CALVIN H. MYERS, JR.	20-018-00-00-0002-00
Z	ELIZABETH K. SCHOLTLAERT	20-024-00-00-0003-00
AA	LARRY AND DEBBIE DOUGLAS	03-B44-0012
BB	ANTHONY BRUCE PARR, SANDRA L. PARR AND RAYMOND LEE PARR	20-024-00-00-0001-00
CC	ROBERT E. & JUDITH F. WRIGHT	023-00-00-0003-0

		COMPANY:	REVISIONS:
DATE: 08-13-2018	SANDRA PARR BRK	OPERATOR'S	
DRAWN BY: K.E.S.	SH	WELL #:	
SCALE: N/A		DISTRICT:	
DRAWING NO: 172-289	STATE: WV	COUNTY: BROOKE	
WELL LOCATION PLAT 2			

August 13, 2018

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

RE: Modification: Sandra Parr BRK 5H

Dear Ms. Adkins

Enclosed please find the updated 6B, WBD, Mylar, 6A1, & Road letter for the above captioned well. We are extending the lateral. This well is situated on the Parr's property, in Brooke County, West Virginia.

If you have any questions or desire additional information, please me at 304-884-1613.

Thank you.

Sincerely,



Brittany Woody
Regulatory Analyst
Southwestern Energy Production Company, LLC

RECEIVED
Office of Oil and Gas

AUG 14 2018

WV Department of
Environmental Protection

