



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

Wednesday, November 3, 2020
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

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

Re: Permit Modification Approval for OV ROYALTY TRUST LLC BRK 205H
47-009-00305-00-00

**Extend Total Measured Depth 18792' to 18869' and Extend Lateral Length 12289.74' to 12422.19'.
Updated Landing Point and Bottom Hole Coordinates.**

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.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is positioned above the printed name and title.

James A. Martin
Chief

Operator's Well Number: OV ROYALTY TRUST LLC BRK 205H
Farm Name: THE GENE CHARLES VALENTINE TRUST DATED
U.S. WELL NUMBER: 47-009-00305-00-00
Horizontal 6A New Drill
Date Modification Issued: 11/03/2020

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 02-Cross 620-Steubenville I
Operator ID County District Quadrangle
- 2) Operator's Well Number: OV Royalty Trust LLC BRK 205H Well Pad Name: OV Royalty Trust LLC BRK
- 3) Farm Name/Surface Owner: The Gene Charles Valentine Trust dated 11/28/88 Public Road Access: Rabbit Hill Road
- 4) Elevation, current ground: 1181' Elevation, proposed post-construction: 1181'
- 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- 5741', Target Base TVD- 5807', Anticipated Thickness- 66', Associated Pressure- 3775
- 8) Proposed Total Vertical Depth: 5782'
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: 18,869'
- 11) Proposed Horizontal Leg Length: 12422.19'
- 12) Approximate Fresh Water Strata Depths: 396'
- 13) Method to Determine Fresh Water Depths: Salinity calculations from OV Royalty 3H logs (API 47-009-00094)
- 14) Approximate Saltwater Depths: 512' Salinity Profile Analysis
- 15) Approximate Coal Seam Depths: 236'
- 16) Approximate Depth to Possible Void (coal mine, karst, other): Possible Void 236'
- 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: Gilchrist and/or Labelle No. 3
Depth: 236'
Seam: Pittsburgh
Owner: OV Royalty Trust LLC

WW-6B
(04/15)

API NO. 47-009 -
 OPERATOR WELL NO. OV Royalty Trust LLC BRK 224
 Well Pad Name: OV Royalty Trust LLC BRK

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	64#	100'	100' ✓	CTS
Fresh Water	13 3/8"	New	H-40	48#	450'	450' ✓	436 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1557'	1557' ✓	688 sx/CTS
Production	5 1/2"	New	HCP-110	20#	18,869'	18,869'	
Tubing							
Liners							

Handwritten signature and date: 10-15-20

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	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.380	2730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/5% Excess
Tubing							
Liners							

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OCT 23 2020

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PACKERS

Kind:				
Sizes:				
Depths Set:				

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 cfs.)



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. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production units, horizontal 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): 26.76

22) Area to be disturbed for well pad only, less access road (acres): 9.81

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 ***

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WV Department of
Environmental Protection

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.

Southwestern Energy Company

Proposed Drilling Program

Well: OV ROYALTY TRUST LLC BRK 205 Re-entry Rig: TBD
 Field: PANHANDLE FIELD WET Prospect: PANHANDLE
 County: BROOKE State: WV
 SHL: 40.2857 Latitude -80.5842 Longitude
 BHL: 40.3188 Latitude -80.5942 Longitude
 KB Elev: 1,207 ft MSL KB: 26 ft AGL GL Elev: 1,181 ft MSL



En 780
10-15-20

Coal Void at 236' TVD

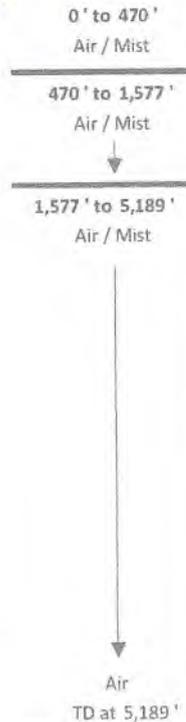
PROD TOC Lead @ 1,677' MD
 PROD TOC Tail @ 5,100' MD

TUBULAR DETAIL

	Size (in)	Weight	Grade	From	To
Conductor:	20	94.0 #	H-40	0'	100'
Surf./Coal:	13.375	48.0 #	H-40	0'	450'
Intermediate:	9.625	36.0 #	J-55	0'	1,557'
Production:	5.5	20.0 #	HCP-110	0'	18,869'

CEMENT DETAIL

	Sacks	Class	Density
Conductor	151	A	19.3
Surface	436	A	15.6
Intermediate	688	A	15.6
Production Lead	800	A	15.6
Production Tail	2922	A	15.6



KOP at 5,189' MI

Freshwater Depth - 396' TVD
 Coal Void Depth - 236' TVD
 Saltwater Depth - 512' TVD
 TVD - 5,782'
 TMD - 18,869'

5,782' Target Center

TD at 18,869' MD
 5,645' TVD

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EOB at 5,782' TVD

SHL Onondaga 5,789' TVD

Onondaga 5,652' TVD

6,441' to 18,869'
 12.2 - 12.8 ppg

JACKSON SURVEYING INC.

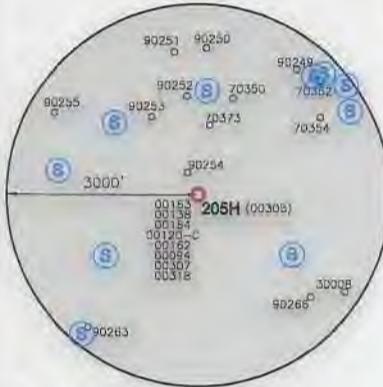
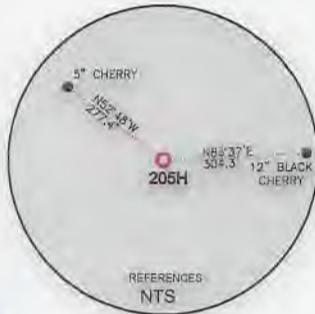
2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 57°33'56" W	1489.37'	SHL TO LANDMARK	FD. 1" IRON PIN
L2	N 11°26'50" E	1240.98'	SHL TO LANDMARK	FOUND STONE
L5	N 17°49'46" W	947.86'	AZL2 TO AZL3	
L8	N 16°11'23" W	1454.75'	AZL6 TO BHL	

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 70°10'02" E	1552.06'	2219.19'	SHL TO LPL
L4	N 19°12'11" W	137.30'	137.31'	AZL1 TO AZL2
L6	N 20°02'54" W	221.84'	221.89'	AZL3 TO AZL4
L7	N 19°13'47" W	303.68'	303.81'	AZL5 TO AZL6

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,459,548.405 EASTING: 535,344.052
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,459,708.907 EASTING: 535,789.061
AZIMUTH POINT LOCATION-1 (AZL1):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,010.948 EASTING: 535,300.252
AZIMUTH POINT LOCATION-2 (AZL2):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,050.469 EASTING: 535,286.487
AZIMUTH POINT LOCATION-3 (AZL3):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,325.503 EASTING: 535,198.028
AZIMUTH POINT LOCATION-4 (AZL4):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,389.023 EASTING: 535,174.848
AZIMUTH POINT LOCATION-5 (AZL5):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,462,741.210 EASTING: 534,621.110

AZIMUTH POINT LOCATION-6 (AZL6):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,462,828.609 EASTING: 534,590.824
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,463,254.433 EASTING: 534,466.994



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



WELL RESTRICTIONS

- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

NOTES ON SURVEY

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



COMPANY: **SWN** Production Company, LLC

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200

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

OV ROYALTY TRUST LLC BRK

OPERATOR'S WELL #: 205H

API WELL #: 47 009 00305
STATE COUNTY PERMIT

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

WATERSHED: PAINTERS RUN OF BUFFALO CREEK (HUC-10) ELEVATION: 1180.6'

DISTRICT: CROSS CREEK COUNTY: BROOKE QUADRANGLE: STUEBENVILLE EAST, WV

SURFACE OWNER: THE GENE CHARLES VALENTINE TRUST DATED 11/26/86 ACREAGE: ±494.38

OIL & GAS ROYALTY OWNER: THE GENE CHARLES VALENTINE TRUST DATED 11/26/86 ACREAGE: ±464.38

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: 5,782' TVD 18,869' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	<ul style="list-style-type: none"> PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD LPL* LANDING POINT LOCATION EXISTING WATER WELL EXISTING SPRING 	<ul style="list-style-type: none"> SURVEYED BOUNDARY DRILLING UNIT LEASE BOUNDARY PROPOSED PATH AZL* AZIMUTH POINT LOCATION 	REVISIONS:	DATE: 09-29-2020
				DRAWN BY: N. MANO
				SCALE: 1" = 3000'
				DRAWING NO:
				WELL LOCATION PLAT

JACKSON SURVEYING
INC.

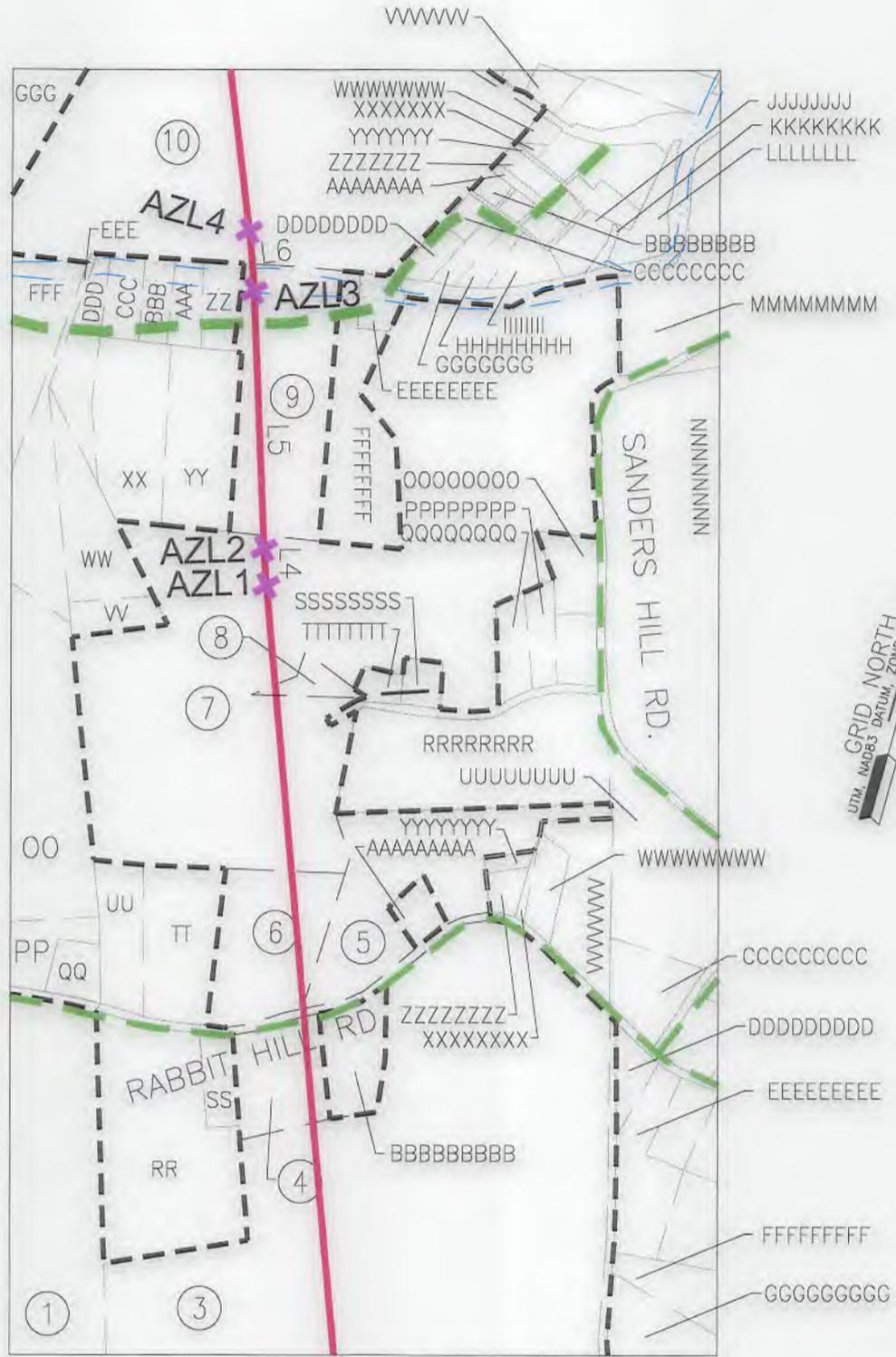
2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851



DETAIL "A"

REVISIONS:	COMPANY:	 				
	OPERATOR'S	OV ROYALTY TRUST LLC BRK	API #:	47-009-00305	DATE:	09-29-2020
	WELL #:	205H			DRAWN BY:	N. MANO
	DISTRICT:	CROSS CREEK	COUNTY:	BROOKE	STATE:	WV
					SCALE:	N/A
					DRAWING NO:	WELL LOCATION PLAT 2

JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV 26302
 304-623-5851



DETAIL "B"

REVISIONS:	COMPANY:	 	
	OPERATOR'S OV ROYALTY TRUST LLC BRK	API #:	DATE: 09-29-2020
	WELL #: 47-009-00305 205H MOD	47-009-00305	DRAWN BY: N. MANO
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	SCALE: N/A
		STATE: WV	DRAWING NO:
			WELL LOCATION PLAT 3

**JACKSON SURVEYING
INC.**

2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851

Well Bore Tracts

TRACT	SURFACE OWNER (S) /ROYALTY OWNER (R)	TAX PARCEL
1	VALENTINE GENE CHARLES THE TRUST OF 11/26/86 (S/R)	04-CC22-41
TRACT	SURFACE OWNER	TAX PARCEL
2	HALL DONNA KATHRYN	04-CC23-229
3	KIRCHNER CHARLES; ALLEMAN JUDITH KIRCHNER ETAL	04-CC23-230
4	FREEMAN LAWRENCE	04-CC23-232
5	TAYLOR FLOYD E SR & RHONDA C	04-CC23-4
6	DODD JAMES HARWELL JR	04-CC23-1
7	MCGOWAN DANIEL & MARJORIE G	04-CC19-6
8	CARBASHO JASON	04-CC18-54
9	BUCHWACH JAMES D	04-CC18-43
10	BOARD OF EDUCATION	04-CC18-33
11	NORFOLK & WESTERN RAILWAY CO	04-C19K-18
12	BOFFO FAMILY LIMITED PARTNER-SHIP	04-CC18-32
13	BOARD OF EDUCATION	04-CC18-31
14	BOFFO FAMILY LIMITED PARTNER-SHIP	04-CC18-7
15	BOFFO FAMILY LIMITED PARTNER-SHIP	04-CC18-5
16	BISHOP CATHOLIC DIOCESE WHG/CHARLESTON	04-CC18-2
17	GRANTONIC MARY JO & POGGI FLOYD J	04-CC18-14
18	GRANTONIC MARY JO & POGGI FLOYD J	04-CC18-1

ADJOINING OWNERS TABLE

TRACT	Surface owners	TAX PARCEL
A	TRAUBERT JOHN W & NANCY	04-CC23-234
B	USH PAUL & PATRICIA ANN	04-CC22-50
C	OV ROYALTY TRUST LLC	04-CC22-49
D	CONAWAY RONALD, DONALD; PATRICIA	04-CC22-47
E	DONINI SAMUEL J & MELANIE A	04-CC22-45
F	MCGOWAN LOUIS M & TINA L	04-CC22-44
G	MCGOWAN TINA L	04-CC22-43
H	FRIEND MICHAEL E	04-CC22-42
I	BOBER JOHN C III & JENNIFER R	07-W22L-18
J	UNKNOWN OWNER	07-W22L-17
K	FRYER RICHARD L	07-W22L-11
L	ICE CHRISTINE L	07-W22L-8
M	ICE CHRISTINE L	07-W22L-9
N	ICE CHRISTINE L	07-W22L-10
O	CLEMONS LARRY N & SANDRA K	07-W22L-4
P	UNKNOWN OWNER	07-W22L-5
Q	RIGGS WILLIAM	04-C22G-82
R	ZAMPINI ROBERT J	04-C22G-81
S	ZAMPINI ROBERT J	04-C22G-80
T	CALDWELL T H HEIRS	04-C22G-79
U	COLLEY JACKIE RAY & ROBERTA G	04-C22G-64
V	COLLEY JACKIE E & ROBERTA	04-C22G-63
W	FRAGALE FRANKLIN	04-W22G-7
X	WHITE JOHN; ROBERT; FREY SHARON; LE-KATHRYN, JEFFREY & RALPH WHITE	04-W22G-5
Y	WHITE JOHN; ROBERT; FREY SHARON LE-KATHRYN, JEFFREY & RALPH WHITE	04-C22G-8
Z	ROTHWELL DAVID R & WYNONNA	04-C22G-19
A2	ROTHWELL DAVID ROGER C/O JOHN BASSETT	04-C22G-20
B2	FOWLER JUDITH L	04-C22G-31
C2	PRICE VIRGINIA	04-C22G-33
D2	ENNIS GEORGE	04-C22G-44
E2	ENNIS GEORGE F	04-C22G-45
F2	MILLER EARL W JR	04-C22G-46
G2	KOSCEVIC MARK	04-C22G-32
H2	SMITH TERRY L & LORA J	04-C22G-122
I2	CARUSO FRANK & LISA C	04-C22G-60
J2	BOGGS CHARLES R	04-C22G-57
K2	ISINGHOOD CHARLES SR	04-CC22-32
L2	GEORGE JIMMIE D & ROBIN J	04-CC22-31
M2	ADAMS DALE E & MARY K	04-CC22-30
N2	DIPASQUALE STEVEN P & MARCY	04-CC22-26
O2	TAYLOR DONALD C JR & WILLIAMS JOAN ET AL	04-CC22-20
P2	SNODGRASS ERIN N	04-CC22-21
Q2	MICHAUX RON ET AL (LC-JASON & DEANNA GALLOWAY)	04-CC22-22
R2	FREEMAN LAWRENCE M SR	04-CC22-25
S2	KIRCHNER CAROLYN F	04-CC23-233
T2	DODD JAMES HARWELL & LYNN I	04-CC22-24
U2	PRICE DONNA MARIE	04-CC22-23

ADJOINING OWNERS TABLE

TRACT	Surface owners	TAX PARCEL
V2	GEORGE EVA	04-CC18-53
W2	GEORGE EVA	04-CC18-52
X2	BUCHWACH JAMES D	04-CC18-50
Y2	BUCHWACH JAMES D	04-CC18-51
Z2	DOUBLES JEAN SHIRLEY	04-CC18-44
A3	HIMMELRICK ROBIN L (LEST-ELLA MAE HAYMEN)	04-CC18-45
B3	HENTHORN GARY	04-CC18-46
C3	HINNELRICK ROBIN L (LEST-ELLA MAE HAYMAN)	04-CC18-47
D3	DODD JAMES; GEORGE ROBIN; MCGILL JEANNE	04-CC18-48
E3	DODD JAMES; GEORGE ROBIN; MCGILL JEANNE	04-CC18-49
F3	BOYD THOMAS M; RICHARD A; DAVID S; TRUSTESS IN TRUST THOMAS J	04-CC18-57
G3	BOARD OF EDUCATION	04-CC18-34
H3	BOARD OF EDUCATION	04-CC18-35
I3	BOARD OF EDUCATION	04-CC18-37
J3	NORFOLK & WESTERN RAILWAY CO	04-C19K-18
K3	NORFOLK & WESTERN RAILWAY CO	04-CC18-28
L3	PITTSBURGH & WVA RAILWAY CO	04-CC18-27
M3	PITTSBURGH & WVA RAILWAY CO	04-CC18-21
N3	BELLAIRE HARBOR SERVICES LLC; (LE-REBECCA JOHNSON)	04-CC18-20
O3	BELLAIRE HARBOR SERVICES LLC; (LE-REBECCA JOHNSON)	04-CC18-19
P3	BELLAIRE HARBOR SERVICES LLC; (LE-REBECCA JOHNSON)	04-CC18-18
Q3	BELLAIRE HARBOR SERVICES LLC; (LE-REBECCA JOHNSON)	05-F18C-04
R3	BELLAIRE HARBOR SERVICES LLC; (LE-REBECCA JOHNSON)	04-CC18-17
S3	LOMBARDI DANIEL PATRICK	04-CC18-16
T3	LOMBARDI DANIEL P	04-CC18-15
U3	KLINE DANIEL A	05-F18C-39
V3	MCCALLISTER RANDY M JR	05-F18C-38
W3	SECRIST MATT C & KYLEE D	05-F18C-37
X3	MOSSER DENISE A	05-F18C-36
Y3	BONIEY PAUL JR & DARLENE JOY SURV	05-F18C-35
Z3	BONIEY PAUL JR	05-F18C-34
A4	BONIEY PAUL JR & DARLENE JOY SURV	05-F18C-33
B4	VANDEBUSH CHARLES B & BETTY H	05-F18C-28
C4	TRICKETT LEEANN	05-F18C-27
D4	LAND OF OZ	05-F18C-32
E4	JONES LARRY F	05-F18C-31
F4	EMLER THOMAS N	05-F18C-30
G4	BULLEE PROPERTIES LLC	05-F18C-29
H4	JORDAN JAMES E & CHERYL L (SURV)	05-F14S-144
I4	JORDAN JAMES E & CHERYL L (SURV)	05-F14S-143
J4	CARUSO JOSEPH & CANDIDA	05-F14S-142
K4	YOST EVA M	05-F14S-140
L4	PHILLIPS ZACHARY & ANDRESS AUSTIN	05-F14S-26
M4	WEEKLEY RACHAEL, ET AL	05-F14S-25
N4	CRAIG DOROTHY & HAROLD JAMIE (SURV)	05-F14S-24
O4	TACCOZZA DANIEL JOHN II; SPERLAZZA NUNCIA TACCOZZA	05-F14S-23
P4	BUSINESS DEVELOPMENT OF THE NORTHERN PANHANDLE	05-F14S-27
Q4	HARDESTY RICHARD T JR & KIMBERLY A	04-C14S-224

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN *Rev A*
Production Company ^{Rev A}™

OPERATOR'S OV ROYALTY TRUST LLC BRK
WELL #: 47-009-00305 205H MOD

API #:
47-009-00305

DATE: 09-29-2020

DRAWN BY: N. MANO

DISTRICT:
CROSS CREEK

COUNTY:
BROOKE

STATE:
WV

SCALE: N/A

DRAWING NO:
WELL LOCATION PLAT 4

JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV 26302
 304-623-5851

ADJOINING OWNERS TABLE

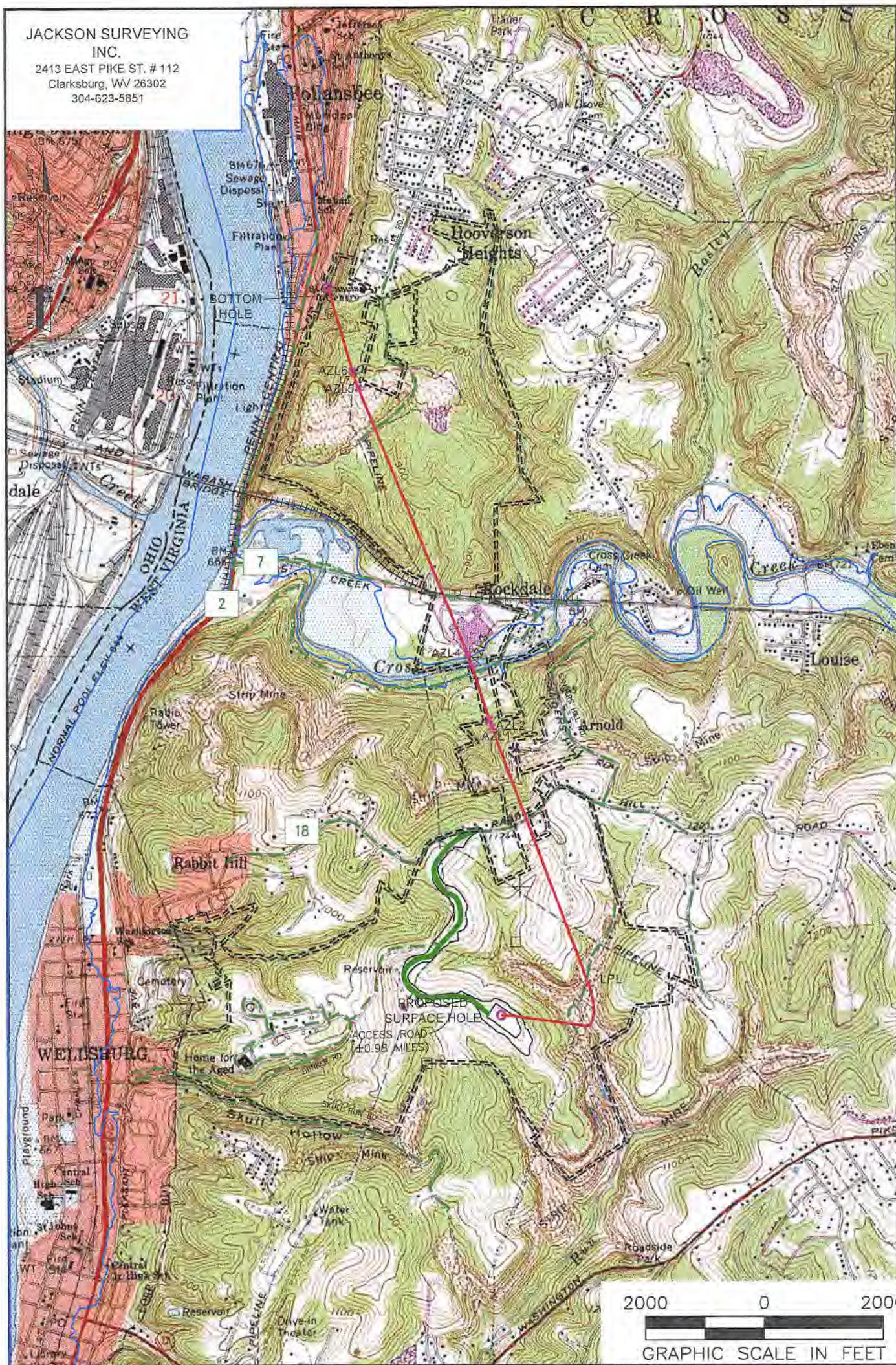
TRACT	Surface owners	TAX PARCEL
R4	HARDESTY RICHARD T JR	04-C14S-31
S4	KOKOS GEORGE	04-C14S-32
T4	KOKOS GEORGE C	04-C14S-33
U4	DESIMONE MARK D & PENNY J	04-C14S-34
V4	KOKOS GEORGE	04-C14S-35
W4	BINE MICHAEL J	04-C14S-48
X4	TENNANT MARK A & CHARITY C (JTWS)	04-C14S-49
Y4	COLUMBIA GAS	04-CC18-03
Z4	FOLLANSBEE CITY OF	04-CC18-04
A5	BOFFO FAMILY LIMITED PARTNERSHIP	04-CC18-07
B5	JAC FRED A WV LLA A NORTH CAROLINA LLC	04-CC18-06
C5	LG OHI FOLLANSBEE LLC ; OHI LG ASSET MANAGEMENT LLC	04-CC18-09
D5	LG OHI FOLLANSBEE LLC ; OHI LG ASSET MANAGEMENT LLC	04-CC18-10
E5	JAC FRED A WV LLA A NORTH CAROLINA LLC	04-CC18-11
F5	ORBAN KENT	04-CC18-12
G5	WILLIAMS BURL R JR	04-C14S-21
H5	EICHNER MICHAEL & LINDA S	04-C14S-74
I5	EICHNER MICHAEL A & LINDA S (SURV)	04-C14S-75
J5	PARDEE SHERD & SUSAN D	04-C14S-76
K5	FRANKENFIELD TERRY L & CHERYL L (SURV)	04-C14S-77
L5	PRITCHARD STEPHEN & BARBARA	04-C14S-78
M5	BARNHART DAVID W & PAMELA A	04-C14S-79
N5	MCCOY RAYMOND H JR & CYNTHIA S (SURV)	04-C14S-80
O5	DEARTH RICHARD C & STACEY A (SURV)	04-C14S-81.1
P5	BEATTY BRIAN	04-C14S-81.2
Q5	BEATTY BRIAN L	04-C14S-219
R5	BEATTY BRIAN L	04-C14S-226
S5	RAY CHRISTOPHER O & KAREN L (SURV)	04-C14S-225
T5	SCWERTFEGER JUSTIN L & PAULA	04-C14S-222
U5	SCWERTFEGER JUSTIN L & PAULA	04-C14S-81.4
V5	ROKSANDICH MICHAEL P & KELLY J	04-C14S-81.3
W5	WILLIAMS GARY L & SHARON J	04-C14S-84
X5	BURCH AARON	04-C14S-97
Y5	SHAWN BONNIE S	04-C14S-98
Z5	BOFFO CARL FREDERICK	04-C14S-128
A6	JAC FRED A WV LLA A NORTH CAROLINA LLC	04-C14S-129
B6	JAC FRED A WV LLA A NORTH CAROLINA LLC	04-C14S-130
C6	JAC FRED A WV LLA A NORTH CAROLINA LLC	04-C14S-131
D6	FRIEND LAURA M	04-C14S-132
E6	FRIEND ROSALIND	04-C14S-153
F6	BINGIEL JAMES R SR	04-C14S-152
G6	ADAMS RAY L & LISA M (SURV)	04-C14S-133
H6	PENROD RONALD C & JUDITH A	04-C14S-134
I6	LOPEZ CHAS & AURORA	04-C14S-135
J6	KIRTLEY SHIRLEY M	04-C14S-136
K6	PINTUS MEGAN E	04-C14S-137
L6	WILLIAMS TIFFANY	04-C14S-138
M6	SMITH BRIAN L & DAWN E (SURV)	04-C14S-139
N6	KUZMA JOHN M & PATRICIA A	04-C14S-140
O6	SANDRETH ELMER JR & REBECCA	04-C14S-141
P6	BOREMAN THOMAS E & SHARON	04-C14S-142
Q6	BOREMAN THOMAS & SHARON (SURV)	04-C14S-223
R6	POWELL GARY W	04-C14S-143
S6	WAUGH HAROLD & SHIRLEY	04-C14S-174
T6	WAUGH HAROLD & SHIRLEY	04-C14S-175
U6	WAUGH HAROLD & SHIRLEY	04-C14S-176
V6	FOLLANSBEE CITY OF	04-C14S-177
W6	CIONNI TERESA	04-C15N-58
X6	TRAUBERT NORMA B., ET AL	04-C15N-77
Y6	STIFT SHERI A	04-C15N-87
Z6	RICHARDSON DEAN & SHARON	04-C19A-10
A7	FORD ANGELA	04-C19A-106
B7	SECRIST WILLIAM D JR	04-C19A-116.1
C7	SNYDER RICK & ESTHER	04-C19A-117

ADJOINING OWNERS TABLE

TRACT	Surface owners	TAX PARCEL
D7	BOFFO VERA HUNT	04-C19A-137
E7	WEEKS JADE M & CHRISTOPHER D (JTWS)	04-C19A-138
F7	GEARY BARBARA	04-C19A-146
G7	JONES JAMES H JR; KEVIN; CORDER DIANA L	04-C19E-04
H7	BEARD CHRISTINA & GERARD V JR	04-C19E-05
I7	HENLINE DARRELL & DONNA (SURV)	04-C19E-06
J7	BELL REBECCA S; THOMAS C. (SURV)	04-C19E-07
K7	BELL REBECCA S; THOMAS C. (SURV)	04-C19E-09
L7	MCABEE DONALD P & DENA D	04-C19E-10
M7	FODOR JEFFERY LOUIS & DREMA DAWN	04-C19E-12
N7	HOOKER BETH JOSHUA A; JOSEPH C	04-C19E-14
O7	ROWLAND RALPH W & WILDA K	04-C19E-17
P7	HADDON VIRGINIA	04-C19E-19
Q7	NORCROSS DONALD K; BARNES LURA R. NORCROSS	04-C19E-24
R7	FRITZ JACKIE L & KEVIN M (SURV)	04-C19E-27
S7	BOARD OF EDUCATION	04-C19E-38
T7	BROOKE COUNTY COMMISSION	04-CC19-193
U7	BOARD OF EDUCATION, BROOKE COUNTY	04-CC19-38.1
V7	BURNS JAMES; COLLINS RANDY	04-CC19-14
W7	BLACK CLARENCE T & TAMMY L	04-CC19-36
X7	BLACK CLARENCE T & TAMMY L	04-CC19-35
Y7	KOWALCZYK RANDY & LINDA LOUISE (SURV)	04-CC19-34
Z7	KOWALCZYK RANDY & LINDA LOUISE (SURV)	04-CC19-33
A8	KOWALCZYK RANDY LEE; LINDA LOUISE (SURV)	04-CC19-32
B8	JOHNSON TERRY R & BETH ANN	04-CC19-28
C8	RYAN RICHARD E & CAROLYN G	04-CC19-27
D8	MCALDER TRAVIS JAMES; PIEHS KAREN A	04-CC19-26
E8	MARKER PHYLLIS	04-CC18-41
F8	HOSLER JOHN P & GERALDINE SURV	04-CC18-42
G8	PALIZZI CAMPBELL SHELDON	04-CC19-25
H8	PALIZZI CAMPBELL SHELDON	04-CC19-24
I8	PALIZZI CAMPBELL SHELDON	04-CC19-23
J8	AFTANAS FRANKIN M JR & DEBRA D. (SURV)	04-CC19-22
K8	AFTANAS FRANKIN M JR & DEBRA D. (SURV)	04-CC19-20
L8	BARTZ MARTIN J JR	04-CC19-18
M8	YOST DENNIS K DBA KEITH YOST EXCAVATING	04-CC19-05
N8	JONES ROGER L & JULIA ANN (SURV)	04-CC19-02
O8	HOGGARD CHARLES A	04-CC19-02
P8	SMITH FRANK E & DORTHA JEAN (TOD) SMITH JEFF E ET AL	04-CC19-09
Q8	SMITH FRANK E & DORTHA JEAN (TOD) SMITH JEFF E ET AL	04-CC19-10
R8	DODD JAMES; MCGILL JEANNE; GEORGE ROBIN	04-CC19-13
S8	BOARD OF EDUCATION	04-CC19-11
T8	MONONGAHELA POWER CO	04-CC19-12
U8	MCGOWAN DANIEL E & MARJORIE G	04-CC23-12
V8	HALL DONALD R & BEVERLY J (SURV)	04-CC23-09
W8	HALL DONALD R & BEVERLY J (SURV)	04-CC23-08
X8	HALL DONALD R & BEVERLY J (SURV)	04-CC23-07
Y8	TAYLOR FLOYD EUGENE & RHONDA C	04-CC23-06
Z8	TAYLOR FLOYD EUGENE & RHONDA C (SURV)	04-CC23-05
A9	CALDWELL SHAWN	04-CC23-03
B9	KIRCHNER DORIS J	04-CC23-231
C9	MOZINGO ROBERT EVAN; HERBERT JEFFERY; STEIN CHRISTINE	04-CC23-11
D9	CUNNINGHAM HENRY	04-CC23-225
E9	CUNNINGHAM HENRY	04-CC23-226.1
F9	PATTISON ROD E & CYNTHIA A (SURV)	04-CC23-227
G9	DOLL RANDALL P & KIMBERLY JO	04-CC23-204
H9	GRAY LARRY J & BARBARA S (SURVIVORSHIP)	04-CC23-228
I9	FRIEND ARTHUR J; (LIFE EST NORMA JEAN FRIEND)	04-CC23-202
J9	RIGGS HUBERT S & WANDA JO	04-CC23-201
K9	LUNSFORD JAMES	04-CC23-203
L9	SCHIAPPA AND COMPANY INC	04-CC28-02

REVISIONS:	COMPANY:	 	
	OPERATOR'S OV ROYALTY TRUST LLC BRK	API #:	DATE: 09-29-2020
	WELL #: 47-001-00305 205H MOD	47-009-00305	DRAWN BY: N. MANO
	DISTRICT:	COUNTY:	SCALE: N/A
	CROSS CREEK	BROOKE	DRAWING NO:
		STATE:	WELL LOCATION PLAT 5
		WV	

JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV 26302
 304-623-5851



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.

LEGEND:

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

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: OV ROYALTY TRUST LLC BRK	WELL # 205H	SERIAL #
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508	COUNTY - CODE BROOKE - 009	DISTRICT: CROSS CREEK	
SURFACE OWNER: THE GENE CHARLES VALENTINE TRUST DATED 11/26/86	USGS 7 1/2 QUADRANGLE MAP NAME STUEBENVILLE, WV	API #: 47-009-00305	

**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"				

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

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

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

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

Well Operator: SWN Production Company, LLC
 By: *Bailey Brainerd*
 Its: Landman

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OCT 23 2020
WV Department of
Environmental Protection

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
 OV Royalty Trust LLC BRK 205H
 Brooke County, West Virginia

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 WV Department of
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#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG
1)	04-CC22-0041-0000	Gene Charles Valentine Trust dated November 26, 1986 and all amendments thereto	Great Lakes Energy Partners, L.L.C. Range Resources -- Appalachia LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	10/121 20/733 10/552 30/480
2)	04-CC23-0229-0000	Donna Kathryn Hall, a widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	11/317 30/480
3)	04-CC23-0230-0000	H3 LLC, a West Virginia Limited Liability Company, by Michael E. Hoeft, its Manager SWN Production Company, LLC (Company Owned Minerals)	SWN Production Company, LLC	18.00% 12.50%	53/245 396/555 (Mineral Deed)
4)	04-CC23-0232-0000	H3 LLC, a West Virginia Limited Liability Company, by Michael E. Hoeft, its Manager SWN Production Company, LLC (Company Owned Minerals)	SWN Production Company, LLC	18.00% 12.50%	54/265 396/555 (Mineral Deed)
5)	04-CC23-0004-000	H3 LLC, a West Virginia Limited Liability Company, by Michael E. Hoeft, its Manager SWN Production Company, LLC (Company Owned Minerals)	SWN Production Company, LLC	18.00% 12.50%	54/265 396/555 (Mineral Deed)
6)	04-CC23-0001-0000	H3 LLC, a West Virginia Limited Liability Company, by Michael E. Hoeft, its Manager SWN Production Company, LLC (Company Owned Minerals)	SWN Production Company, LLC	18.00% 12.50%	54/265 396/555 (Mineral Deed)
7)	04-CC19-0006-0000	Daniel McGowan and Marjorie G. McGowan, husband and wife H3 LLC, a West Virginia Limited Liability Company, by Michael E. Hoeft, its Manager SWN Production Company, LLC (Company Owned Minerals)	SWN Production Company, L.L.C. SWN Production Company, LLC	17.00% 18.00% 12.50%	36/777 54/265 396/555 (Mineral Deed)
8)	04-CC18-0054-0000	Jason Carbasho, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/735

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1,
 SWN Production Company, LLC, Operator
 OV Royalty Trust LLC BRK 205H
 Brooke County, West Virginia

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9)	04-CC18-0043-0000	James D. Buchwach, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	17/142 30/480
10)	04-CC18-0033-0000	Brooke County Board of Education, a West Virginia Public Corporation	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	26/181 30/480
11)	04-C19K-0018-0000	Wheeling & Lake Erie Railway Company, a Delaware corporation, sublessee of the Pittsburgh & West Virginia Railway Company	SWN Production Company, LLC	18.00%	53/702
12)	04-CC18-0032-0000	The Boffo Family Limited Partnership, a West Virginia Limited Partnership	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00%	12/82 30/480
13)	04-CC18-0031-0000	Brooke County Board of Education, a West Virginia Public Corporation	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	26/181 30/480
14)	04-CC18-0007-0000	The Boffo Family Limited Partnership, a West Virginia Limited Partnership	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00%	13/469 30/480
15)	04-CC18-0005-0000	The Boffo Family Limited Partnership, a West Virginia Limited Partnership	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00%	13/470 30/480
16)	04-CC18-0002-0000	BOFFO FAMILY, L.P., whose mailing address is 420 Lynn St., Follansbee, West Virginia 26037, represented herein by Carl Frederick Boffo, Managing General Partner	SWN Production Company, LLC	18.00%	53/696
17)	04-CC18-0014-0000	Vespy Poggi and Ilona Poggi, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	11/612 30/480
18)	04-CC18-0001-0000	Vespy Poggi and Ilona Poggi, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	11/616 30/480



SWN Production Company, LLC
1300 Fort Pierpont Dr, Ste 201
Morgantown, WV 26508
Tel: 304 884 1610
Fax: 304 471 2497
www.swn.com

September 25, 2020

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

RE: SWN's proposed New Well: OV Royalty Trust LLC BRK 205H in Brooke County, West Virginia, Drilling under Cross Creek Road and Rabbit 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 Cross Creek Road and Rabbit 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,

Bailey Brougher
Landman
SWN Production Company, LLC

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

October 22, 2020

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

RE: Proposed Expedited Modification: OV Royalty Trust LLC BRK 5H & OV Royalty Trust LLC
BRK 205H

Dear ~~Ms. Adkins~~

Enclosed please find the required documents to modify this well. We are wanting to extend the laterals on both of these wells. These wells are situated on the OV Royalty's property, in Cross Creek District, Brooke County, West Virginia.

Enclosed you will find:

- Updated 6B
- Updated Casing Program
- AOR
- Mylar
- 6A1 & Road letter

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OCT 23 2020

WV Department of
Environmental Protection

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

Thank you.

Sincerely,

Brittany Woody

Brittany Woody
Senior Regulatory Analyst
Southwestern Energy Production Company, LLC

CK#-1053062
\$ 5000
Date 10/13/20

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