



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

Tuesday, January 12, 2021
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

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

Re: Permit Modification Approval for STATE OF WV DNR C BRK 10H
47-009-00309-00-00

Shorten Lateral on the Pennsylvania Bottom Hole Location. Updated location

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'.

James A. Martin
Chief

Operator's Well Number: STATE OF WV DNR C BRK 10H
Farm Name: STATE OF WV, BUREAU OF COMMERCE, DIVISIC
U.S. WELL NUMBER: 47-009-00309-00-00
Horizontal 6A New Drill
Date Modification Issued: 01/12/2021

Promoting a healthy environment.

Check # 1054030
\$5,000.00
12/15/2020

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 4-Cross 620-Steubenville
Operator ID County District Quadrangle

2) Operator's Well Number: State of WV DNR C BRK 10H Well Pad Name: State of WV DNR C BRK

3) Farm Name/Surface Owner: State of WV DNR Public Road Access: Putney Ridge Road

4) Elevation, current ground: 993' Elevation, proposed post-construction: 990'

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

(b) If Gas Shallow Deep _____
Horizontal _____

6) Existing Pad: Yes or No No

[Signature] 12-29-20

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Marcellus, Down-Dip Well to the South, Target Top TVD- 5851', Target Base TVD- 5913', Anticipated Thickness- 62', Associated Pressure- 3843

8) Proposed Total Vertical Depth: 5897'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 28635'

11) Proposed Horizontal Leg Length: 22,488.54'

RECEIVED
Office of Oil and Gas

12) Approximate Fresh Water Strata Depths: 371'

DEC 30 2020

13) Method to Determine Fresh Water Depths: Nearby water well

WV Department of
Environmental Protection

14) Approximate Saltwater Depths: 575' salinity profile analysis

15) Approximate Coal Seam Depths: 6'

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: _____

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	J-55	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	421'	421'	415 sx/CTS
Coal	See	Conductor	Casing				
Intermediate	9 5/8"	New	J-55	36#	1380'	1380'	456 sx/CTS
Production	6"	New	P-110 HP	24#	0'	4800'	
Production	5 1/2"	New	P-110 HP	20#	4800'	28635'	Tail 555cu/100' inside intermediate
Liners							

C. AO 12-29-20

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	Conductor	Casing				
Intermediate	9 5/8"	12 1/4"	0.352	3520	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							

PACKERS

Kind:				
Sizes:				
Depths Set:				

Southwestern Energy Company

Proposed Drilling Program

Well: STATE OF WV DNR C BRK 10
 Field: PANHANDLE FIELD WET
 County: BROOKE
 SHL: 40.3023 Latitude -80.5377 Longitude
 BHL: 40.2448 Latitude -80.5046 Longitude
 KB Elev: 1,016 ft MSL KB: 26 ft AGL GL Elev: 990 ft MSL

Re-entry Rig: SDC 40
 Prospect: Marcellus Shale
 State: WV



E-TRD
12.29.20

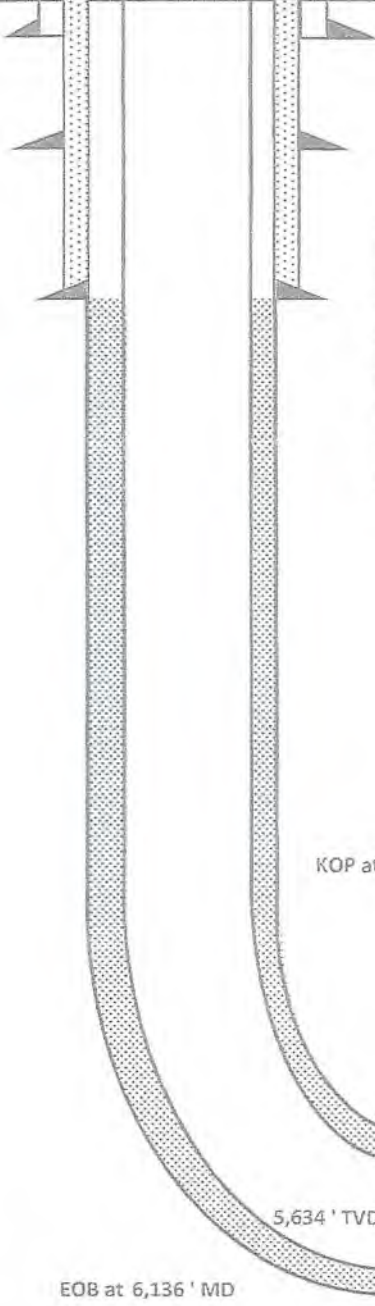
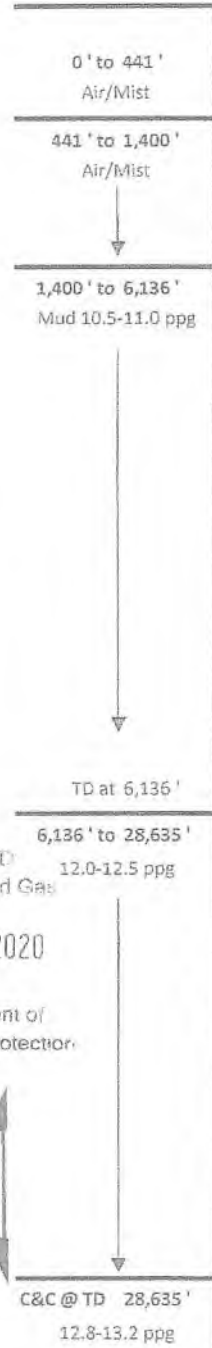
PROD TOC Lead @ 1,500' MD
 PROD TOC Tail @ 5,050' MD

TUBULAR DETAIL

Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Cond/Coal	20	94.0 #	J-55	0'	100'
Surface	13.375	48.0 #	H-40	0'	421'
Intermediate	9.625	36.0 #	J-55	0'	1,380'
Production	6	24.0#	P-110 HP	0'	4,800'
	5.5	20.0 #	P-110 HP	4,800'	28,635'

CEMENT DETAIL

	Sacks	Class	Density
Conductor:	151	A	19.3
Surface:	415	A	15.6
Intermediate:	456	A	15.6
Production:	5555	A	15.0



RECEIVED
 Office of Oil and Gas
DEC 30 2020
 WV Department of Environmental Protection

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.

Office of Oil and Gas

DEC 30 2020

WV Department of Environmental Protection

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:
 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508

SURFACE OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION

WELL (FARM) NAME:
 STATE OF WV DNR C BRK

COUNTY - CODE
 BROOKE - 009

USGS 7 1/2 QUADRANGLE MAP NAME
 STEUBENVILLE EAST, WV

WELL # SERIAL #
 10H 47-009-00309

DISTRICT;
 CROSS CREEK

Latitude: 40°20'00"

SURFACE HOLE 10523'

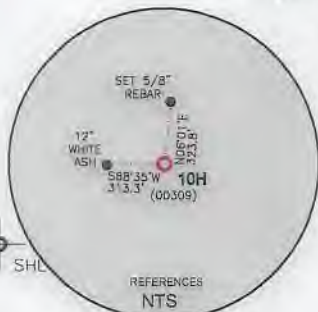
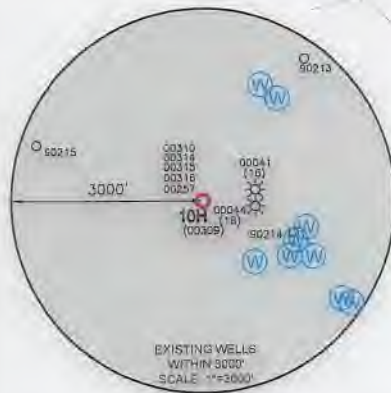
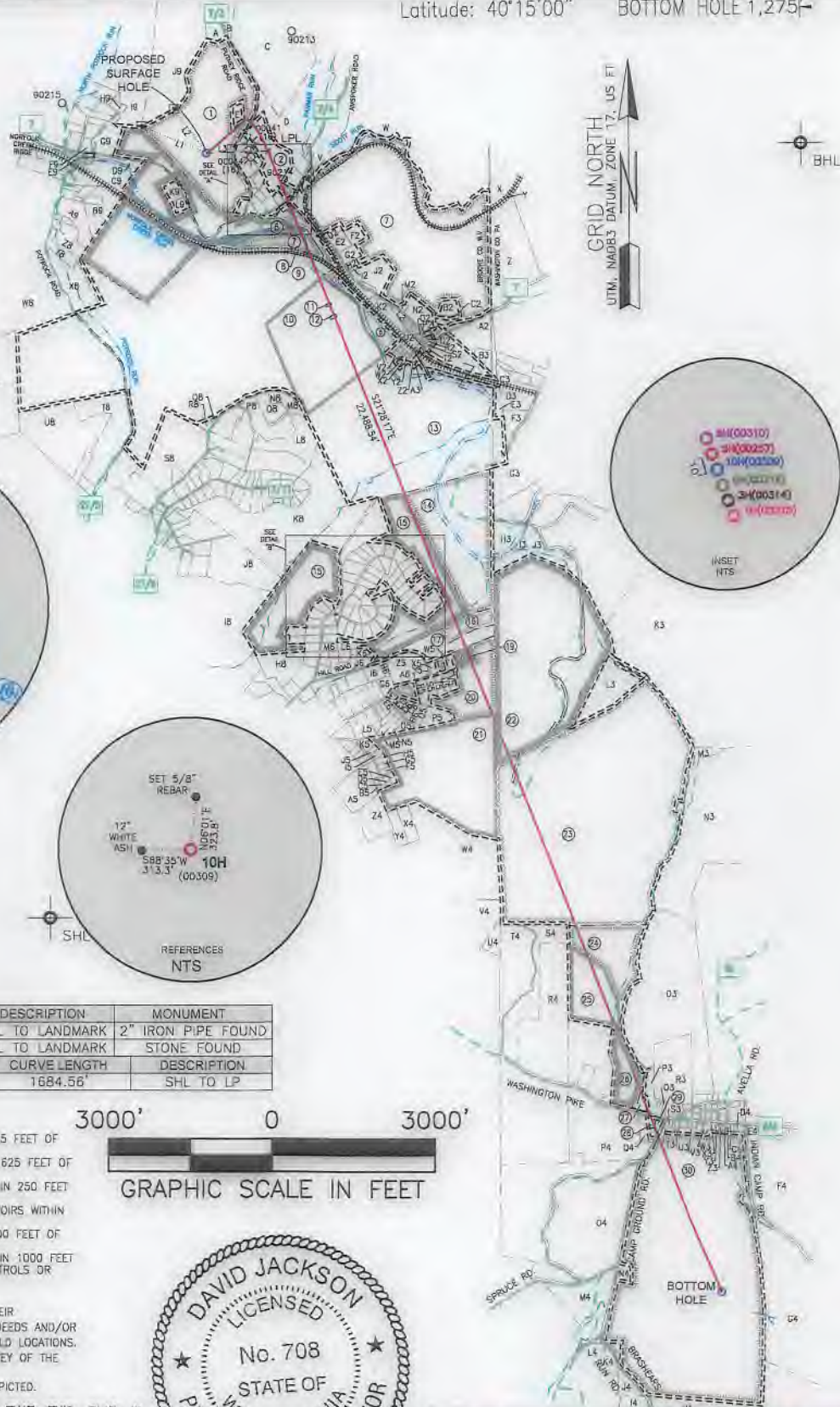
Latitude: 40°15'00"

BOTTOM HOLE 1,275'

JACKSON SURVEYING INC.

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

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,417.479 EASTING: 539,283.420
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,424.523 EASTING: 539,629.719
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,455,045.705 EASTING: 542,138.728



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 67°18'29" W	1294.82'	SHL TO LANDMARK	2" IRON PIPE FOUND
L2	N 36°10'05" W	1007.23'	SHL TO LANDMARK	STONE FOUND
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 88°50'05" E	1138.38'	1684.56'	SHL TO LP

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.

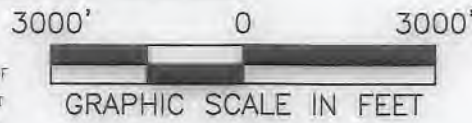
NOTES ON SURVEY

- 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.

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. 708

David L Jackson



(+) 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)

COMPANY: **SWN** Production Company, LLC

STATE OF WV DNR C BRK

OPERATOR'S WELL #: 10H

API WELL #: 47 009 00309
STATE COUNTY PERMIT

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

WATERSHED: NORTH FORK CROSS CREEK - CROSS CREEK (HUC-10) ELEVATION: 990.0'

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

SURFACE OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION ACREAGE: ±83.858

OIL & GAS ROYALTY OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION ACREAGE: ±83.858

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: 5,897 TVD 28,635 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:	SURVEYED BOUNDARY	REVISIONS:	DATE: 03-12-2020
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT	△ REVISED REFERENCES 06-05-2020	DRAWN BY: N. MANO
⊙ EXISTING / PRODUCING WELLHEAD	--- LEASE BOUNDARY	△ REVISED DHP 12-16-2020	SCALE: 1" = 3000'
LPL * LANDING POINT LOCATION	— PROPOSED PATH		DRAWING NO:
⊕ EXISTING WATER WELL			WELL LOCATION PLAT
⊙ EXISTING SPRING			

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

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S/R)	4-CC20-06
TRACT	SURFACE OWNER	TAX PARCEL
2	LINDY L. GALIANO & SANTY GALIANO (S)	4-CC20-19.1
3	WILLIAM MARINO & MILDRED T. MARINO (S)	4-CC20-35
4	EARL R. BLACK (S)	4-CC20-39
5	NORFOLK & WESTERN RAILWAY CO. (S)	4-C24B-29
6	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	4-CC19-169
7	NICKOLES 3, LLC (S)	4-CC20-33
8	NORFOLK & WESTERN RAILWAY CO. (S)	4-C19K-18
9	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	4-CC23-325
10	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	4-CC24-03
11	LARRY E. REED (S)	4-CC24-02
12	MICHAEL L. OBER (S)	4-CC24-01
13	MICHAEL OBER (S)	4-CC24-07
14	EUGENE CRUNY (S)	4-CC24-130
15	DEAN SMITH (S)	4-CC24-99
16	STARVAGGI INDUSTRIES (S)	4-CC24-129
17	MICHAEL D. JONES & LOIS J. JONES (S)	4-CC24-128
18	KEITH J. FISCHER & DAWN MARIE FISCHER (S)	4-CC24-152
19	RYAN J. COOK & EMILY M. COOK (S)	4-CC24-149
20	ELLEN CATTARUZZA (S)	4-CC29-39
21	DEBRA CYPHER, MATTHEW FAIR & SUSAN BRUFFY (S)	4-CC29-57
22	BROWNLEE LAND VENTURES (S)	370-001-00-00-0015-00
23	STATE LINE REAL ESTATE LLC (S)	370-004-00-00-0001-00
24	RONALD B. POWELL JR. & ROSEANNE POWELL (S)	370-007-00-00-0002-02
25	CHERYL BUTYA (S)	370-007-00-00-0002-01
26	DAVID J. DEMPSTER & HOANNE K. DEMPSTER (S)	370-007-00-00-0002-03
27	WILLIAM TACZAK & GEORGE TACZAK (S)	370-008-01-01-0001-01
28	LOWER BUFFALO PRESBYTERIAN CHURCH (S)	370-008-01-03-0001-00
29	LOWER BUFFALO PRESBYTERIAN CHURCH (S)	370-008-01-03-0002-00
30	JOSEPH J. DEPETRO III (S)	370-011-00-00-0009-00

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
A	JOHN ERNEST MILLER & JESSE ANDREW MILLER	4-CC20-04	D2	TIMOTHY J. DISERIO	4-CC20-42
B	DENNIS M. BREEN & SUSAN D. BREEN	4-CC20-22	E2	JAMES JOHNSON & CHARLENE JOHNSON	4-CC20-43
C	COLLIERS SPORTSMAN CLUB	4-CC20-21	F2	JEFFERY O. NICKOLES	4-CC20-33.1
D	LINDY L. BLACK	4-CC20-07	G2	JEFFERY NICKOLES, RANDY NICKOLES & GREGORY NICKOLES	4-C24B-01
E	WILLIAM MORGAN ROUSE & DORIS J. ROUSE	4-CC20-20	H2	EDWARD L. THOMPSON & CAROL J. THOMPSON	4-C24B-02
F	EDWARD L. CARTER & DEBORAH C. CARTER	4-CC20-18	I2	WVA DEPARTMENT OF HIGHWAYS	4-C24B-03
G	EDWARD L. CARTER & DEBORAH C. CARTER	4-CC20-17	J2	JANE KIERCE	4-C24B-04
H	ERIC T. GALIANO	4-CC20-16	K2	DEBRA MCQUILLAN & ANNETTE MILLER	4-C24B-28
I	ERIC T. GALIANO	4-CC20-14	L2	DEBRA MCQUILLAN & ANNETTE MILLER	4-C24B-27
J	ERIC T. GALIANO	4-CC20-19	M2	GREGORY NICKOLES	4-C24B-06
K	KEVIN MCCONNELL	4-CC20-11	N2	ANNETTE MILLER, FRANK MCQUILLAN & ANNA MAE MCQUILLAN	4-C24B-07
L	BARBARA J. MCCONNELL	4-CC20-10	O2	GREG NICKOLES & CAROL NICKOLES	4-C24B-16
M	SUSAN K. PRONCHIK	4-CC20-08	P2	H3, LLC.	4-C24B-15
N	SANTY GALIANO & LINDY GALIANO	4-CC20-38	Q2	GREG NICKOLES & CAROL NICKOLES	4-C24B-14
O	WAYNE L. HENDERSON & BETHANY A. HENDERSON	4-CC20-37	R2	GREG NICKOLES & CAROL NICKOLES	4-C24B-13
P	MILDRED T. MARINO & WILLIAM MARINO	4-CC20-36	S2	GREG NICKOLES & CAROL NICKOLES	4-C24B-12
Q	ERIC T. GALIANO	4-CC20-13	T2	GREG NICKOLES & CAROL NICKOLES	4-C24B-11
R	ERIC T. GALIANO	4-CC20-15	U2	JAMES JOHNSON & CHARLENE JOHNSON	4-C24B-10
S	ROBERT CLINE & DELORIS CLINE	4-CC20-34	V2	MICHAEL L. OBER	4-C24F-01
T	RON GASPARINE	4-CC20-40	W2	MICHAEL L. OBER	4-C24F-10
U	ROBERT G. HIGGINBOTHAM JR.	4-CC20-41	X2	MICHAEL L. OBER	4-C24F-09
V	DEBORAH K. SLIDAY	4-CC20-32	Y2	JOSEPH SANTORO & LINA SANTORO	4-C24F-08
W	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	4-CC20-25	Z2	ROBERT ANKROM & PEGGY ANKROM	4-C24F-12
X	CALVIN H. MYERS JR.	380-014-00-00-0002-00	A3	ROBERT ANKROM & PEGGY ANKROM	4-C24F-13
Y	JEFFERSON QTW EXEMPT PROPERTY	380-014-00-00-0001-00	B3	PITTSBURGH & WVA RAILWAY CO	4-C24F-14
Z	RANDY L. NICKOLES	380-015-00-00-0019-00	C3	JEFFERSON EXEMPT PROPERTY PITTSBURGH & WVA RAILWAY COMPANY	380-015-00-00-0011-00
A2	JEFFREY O. NICKOLES	4-C24B-09	D3	PITTSBURGH & WVA RAILWAY CO	380-015-00-00-0010-00
B2	RANDY L. NICKOLES	4-C24B-08	E3	PITTSBURGH & WVA RAILWAY CO	380-015-00-00-0010-02
C2	RANDY L. NICKOLES	4-C24B-33			

REVISIONS:

- △ REVISED REFERENCES 06-05-2020
- △ REVISED DHP 12-16-2020

COMPANY:

SWN
Production Company, LLC

SWN ^{RL} ^A ^{V+} ⁺
Production Company™

OPERATOR'S STATE OF WV DNR C BRK

API: 47-009-00309

DATE: 03-12-2020

WELL #: 10H

DRAWN BY: N. MANO

DISTRICT: CROSS CREEK

COUNTY: BROOKE

STATE: WV

SCALE: N/A

DRAWING NO:

WELL LOCATION PLAT 3

JACKSON SURVEYING

INC.

2413 EAST PIKE ST. # 112

Clarksburg, WV 26302

304-623-5851

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
F3	WHEELING & LAKE ERIE RAILWAY	380-015-00-00-0010-01	S4	NICOLE R. SMITH & NEAL E. SMITH	370-007-00-00-0001-02
G3	ROBERT ROTELLINI & ANDREA L. PUSKARICH	380-015-00-00-0009-00	T4	RYAN M. SMITH & BROOKE N. SMITH	370-007-00-00-0001-01
H3	EUGENE CRUNY & JOSEPH A. JERAM	380-015-00-00-0008-00	U4	NEAL E. SMITH & JOAN W. SMITH	04-CC29-194.2
I3	EUGENE CRUNY & JOSEPH A. JERAM	370-001-00-00-0016-00	V4	RUTH ANN STEWART & MADELOD DAWN JACKSON	04-CC29-194
J3	DANIEL BANOVICH	370-001-00-00-0001-00	W4	ROBERT LEE FRESHWATER	04-CC29-134
K3	PETER J. KLOVANISH INC., PETE KLOVANISH	370-001-00-00-0012-00	X4	JERRY FLUHARTY & MARY FLUHARTY	04-CC29-133
L3	KENNETH D. VARNER JR. & CECELIA C. VARNER	370-001-00-00-0014-00	Y4	ROBERT L. YOUNG	04-CC29-132
M3	KENNETH D. VARNER JR. & CECILIA C. VARNER	370-004-00-00-0002-00	Z4	ERIC W. CAMPBELL	04-CC29-117
N3	ANGELO F. FALCONI & PHILLIP FALCONI	370-004-00-00-0003-00	A5	CHARLES L. KRAFT	04-CC29-111
O3	WILLIAM TACZAK & GEORGE TACZAK	370-004-00-00-0047-00	B5	EMILIO A. MUSCEDERE & JUDITH A. MUSCEDERE	04-CC29-53
P3	WILLIAM TACZAK & GEORGE TACZAK	370-008-01-01-0001-00	C5	EMILIO A. MUSCEDERE & JUDITH A. MUSCEDERE	04-CC29-54
Q3	NORMA V. HADDON	370-008-01-01-0003-00	D5	JOHN H. LYLE JR. & MARY CATHERINE LYLE	04-CC29-55
R3	OWINGS FAMILY TRUST, JOANNE OWINGS TRUSTEE	370-004-00-00-0046-00	E5	JOHN H. LYLE JR. & MARY C. LYLE	04-CC29-56
S3	FRANCIS M. COOKE JR. & MARGARET COOKE	370-008-01-03-0004-00	F5	BRIAN T. FERDA & VI-EVA FERDA	04-CC29-58
T3	LINDA LEA HALL	370-008-01-03-0003-00	G5	BRIAN T. FERDA & VI-EVA FERDA	04-CC29-59
U3	EUGENE F. GEORGETTI & SHIRLEY L. GEORGETTI	370-008-01-03-0006-00	H5	BRIAN T. FERDA & VI-EVA FERDA	04-CC29-60
V3	JOSEPH J. DEPETRO III	370-008-01-03-0011-00	I5	GARY KUSICH & PATRICIA ELAINE KUSICH	04-CC29-61
W3	JASON J. ATKINSON	370-008-01-03-0012-00	J5	GARY KUSICH & PATRICIA ELAINE KUSICH	04-CC29-62
X3	KENNETH H. RUSH & SANDRA K. RUSH	370-008-01-03-0013-00	K5	ROGER L. CLEM & MILDRED O. CLEM	04-CC29-63
Y3	ROBERT S. KLEM & TERESA A. KLEM	370-008-01-03-0014-00	L5	RONALD LEE HICKS & DEBRA V. HICKS	04-CC29-43
Z3	WALTER J. KOPKO & HOLLY A. KOPKO	370-008-01-03-0015-00	M5	ROBERT R. NEWTON JR.	04-CC29-41.1
A4	WALTER J. KOPKO & HOLLY A. KOPKO	370-008-01-03-0016-00	N5	NATALIE J. PAPSON	04-CC29-41
B4	LISA M. PITTMAN	370-008-01-03-0017-00	O5	MARK A. HONE & LAUREN M. HONE	04-CC29-39.2
C4	LISA M. PITTMAN	370-008-01-03-0018-00	P5	DAVID H. MCCLAIN & KAREN MCCLAIN	04-CC29-39.7
D4	INDEPENDENCE-EXEMPT PROPERTY, TOWNSHIP SUPERVISORS	370-008-01-03-0019-00	Q5	ARLEY R. MITCHELL & NANCY E. MITCHELL	04-CC29-39.11
E4	TERRY G. JACOBS JR. & SAMANTHA L. JACOBS	370-008-00-00-0008-00	R5	EMILY BEALL & STEPHANIE BEALL	04-CC29-39.15
F4	ROBERT L. DEPETRO JR. & REBECCA DEPETRO	370-008-00-00-0005-00	S5	JOSEPH E. CROSS JR. & JENNIFER L. CROSS	4-CC29-39.17
G4	JACK M. HOPWOOD	370-011-00-00-0010-01	T5	JOSEPH E. CROSS JR. & JENNIFER L. CROSS	4-CC29-39.21
H4	PAUL A. CUNNINGHAM	370-012-00-00-0002-00	U5	CHAD A. SOLE & MISTY D. SOLE	04-CC29-39.20
I4	GARY RUSH	370-011-00-00-0008-00	V5	COREY L. PALMER & ALLYSON M. PALMER	04-CC24-143
J4	JOSEPH J. DEPETRO	370-011-00-00-0009-02	W5	KENNETH JAY FISCHER & DAWN MARIE FISCHER	04-CC24-153
K4	BROWNLEE LAND	370-011-00-00-0007-00	X5	JOSEPH M. WHITE & RACHEL E. WHITE	4-CC29-39.18
L4	RONALD BERNARD SENG & JOANNE ALICE SENG	370-011-00-00-0006-00	Y5	JOSEPH M. WHITE & RACHEL E. WHITE	4-CC29-39.19
M4	BELLVIEW CAMP MEETING ASSOC, LINDA HEPBURN	370-007-00-00-0003-00	Z5	THOMAS COLE & VIRGINIA COLE	04-CC24-127
N4	LISA J. JACOBS & TERRY G. JACOBS	370-011-00-00-0009-01	A6	JOHN E. MITCHELL & JOAN R. MITCHELL	04-CC29-39.16
O4	BROWNLEE LAND VENT LP	370-007-00-00-0005-00	B6	ALFRED J. ROCCHIO JR. & SHERRY E. ROCCHIO	04-CC29-39.8
P4	ROBERT G. BRIGGS & NANCY L. BRIGGS	370-007-00-00-0002-00	C6	JEFFERY LUCK & JANE DAUGHERTY-LUCK	04-CC29-39.13
Q4	ALBERT PETRUSH & JAMIE GMITER	370-007-00-00-0002-05	D6	JEFFERY LUCK & JANE DAUGHERTY-LUCK	04-CC29-39.1
R4	JOSEPH D. DEPETRO III	370-007-00-00-0001-00	E6	MITCHELL SPURLOCK & RANA D. MITCHELL	04-CC29-40
			F6	JOHN E. MITCHELL & JOAN R. MITCHELL	04-CC29-39.5
			G6	FREDERICK C. CASALE & SUZANNE CASALE	04-CC29-39.12
			H6	EUGENE MITCHELL JR. & MARGARET MITCHELL - LIFE, JESSE MITCHELL ET AL	04-CC24-131
			I6	EUGENE MITCHELL JR. & MARGARET MITCHELL - LIFE, JESSE MITCHELL ET AL	04-CC24-126
			J6	GEORGE A. BARCHIESI & PAMELA J. BARCHIESI	04-CC24-125
			K6	GEORGE A. BARCHIESI & PAMELA J. BARCHIESI	04-CC24-122
			L6	TODD P. FERGUSON & LISA FERGUSON	04-CC24-99.1
			M6	TODD FERGUSON & LISA FERGUSON	04-CC24-120
			N6	JERRY M. BOOTH & DEBRA D. BOOTH	04-CC24-119
			O6	PAUL J. SICURELLA & LEA M. SICURELLA	04-CC24-118
			P6	DAVID HUNT KINS & PATRICIA ANN KINS	04-CC24-116
			Q6	JEFFREY L. ADAMS & SHELIA D. ADAMS	04-CC24-115
			R6	JEFFREY L. ADAMS & SHELIA D. ADAMS	04-CC24-114
			S6	ARTHUR SCHERICH & LEIGH ANN SCHERICH	04-CC24-113
			T6	TRAVIS SMITH	04-CC24-112
			U6	DEAN SMITH	4-CC24-111
			V6	DEAN SMITH	4-CC24-110
			W6	DEAN SMITH	4-CC24-109
			X6	STEVEN BROWN	4-CC24-99.2
			Y6	RICHARD H. SCOTT & DENA M. SCOTT	4-CC24-104
			Z6	KEVIN L. CRAFT & MARGARET K. CRAFT	4-CC24-103
			A7	SHELLY D. GAUMER	4-CC24-102
			B7	JAY THOMAS GAUMER & SHELLEY DAWN GAUMER	4-CC24-99.3
			C7	BRIAN TAYLOR	4-CC24-99.5
			D7	BRIAN TAYLOR	4-CC24-133
			E7	COREY T. CARROLL & KATELYN N. SWAGER	4-CC24-134
			F7	RYAN E. HALL & NICOLE M. STANLEY	4-CC24-137
			G7	JASON MICHAEL KUSIC & ALICIA RENEE KUSIC	4-CC24-136
			H7	JOHN L. DAVIS & F. LYNN DAVIS	4-CC24-145
			I7	JOHN L. DAVIS & F. LYNN DAVIS	4-CC24-144
			J7	LESLIE J. JOHNS & MELISSA J. JOHNS	4-CC24-140
			K7	LESLIE J. JOHNS & MELISSA J. JOHNS	4-CC24-139
			L7	JUSTIN A. GRIFFITH & KERI D. GRIFFITH	4-CC24-148
			M7	GARRETT AUSTIN INGRAM	4-CC24-99.7
			N7	LARRY T. MAIN	4-CC24-99.8
			O7	JASON D. DRUM & AMANDA R. DRUM	4-CC24-146

REVISIONS:

- △ REVISED REFERENCES 06-05-2020
- △ REVISED DHP 12-16-2020

COMPANY:



OPERATOR'S STATE OF WV DNR C BRK

API: 47-009-00309

DATE: 03-12-2020

WELL #: 10H

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 OWNER	TAX PARCEL
P7	WILLIAM L. MONK & TINA M. MONK	4-CC24-99.4
Q7	JOHN R. COOK & BEVERLY A. COOK	4-CC24-97
R7	JOHN R. COOK & BEVERLY A. COOK	4-CC24-147
S7	DEAN SMITH	4-CC24-98
T7	MICHAEL K. MCFADDEN & SHARON MCFADDEN	4-CC24-93
U7	MICHAEL J. CIPRIANI	4-CC24-142
V7	MICHAEL J. CIPRIANI	4-CC24-141
W7	JACK EARNEST & LESLIE M. EARNEST	4-CC24-138
X7	KEVIN M. FARRELL & HEIDI J. FARRELL	4-CC24-92
Y7	KEVIN M. FARRELL & HEIDI J. FARRELL	4-CC24-91
Z7	RALPH A. BRADY & KIM BRADY	4-CC24-90
A8	BRIAN L. FERGUSON & NANCY J. FERGUSON	4-CC24-89
BB	JAMES E. HUFFNER & PATRICIA HUFFNER	4-CC24-88
C8	JAMES E. HUFFNER & PATRICIA HUFFNER	4-CC24-99.6
D8	CHRISTOPHER L. CECCHINI	4-CC24-87
E8	CHRISTOPHER L. CECCHINI & AMY CECCHINI	4-CC24-86
FB	KRISTI MICHELLE BOLEN	4-CC24-85
GB	DREW FERGUSON	4-CC24-84.1
H8	TERRI HEFFNER	4-CC24-84
IB	CHARLES WAYNE MALONEY & NANCY L. MALONEY	4-CC29-17
J8	JOHN STEVENS & LINDA STEVENS	4-CC24-56
K8	GEORGE L. BRADLEY	4-CC24-55
L8	RAYMOND S. CROSS, DENNIS P. CROSS, & KATHRYN R. BUTLER	4-CC24-13
M8	WHEELING ENERGY WORKS, LTD.	4-CC24-08
N8	MARK E. VAUGHN & LISA A. VAUGHN	4-CC24-09
O8	DAVID A. MIHLBAUER & TERI L. MIHLBAUER	4-CC24-10
P8	OTTIS T. PETTRY	4-CC24-12
Q8	DON TAYLOR	4-CC24-06
R8	WILLIAM C. BAIRD & CYNTHIA L. BAIRD	4-CC24-05
S8	ALBERT D. JOHNS JR., GARY JOHNS, GREGORY JOHNS & TAMMY MOORE	4-CC23-326
T8	WILLIAM H. THOMPSON & DEBRA THOMPSON	4-CC23-320
U8	SAMUEL HUBBARD	4-CC23-318
V8	BRIAN CORWIN, DAVID HAUGHT JR. & CRYSTAL HOIT	4-CC23-78
W8	SUSAN A. MALSON, CHARLES A. COOK, CATHERINE L. WOLFE, JOHN T. COOK & BONNIE A. MCKEE, TRUSTEES OF THE COOK FAMILY TRUST REVOCABLE TRUST AGREEMENT DATED APRIL 20, 2017	4-CC23-322
X8	BOBBIE JO MENEELY & RANDALL MINICH	4-CC23-324
Y8	MICHAEL W. MOORE	4-CC23-323
Z8	JUDITH ANN MOORE	4-CC19-185
A9	CHARLES D. MOORE & CECELIA FAY MOORE	4-CC19-180
B9	ROSE MARIE EDGELL	4-CC19-176
C9	CONSTANTINE EVANGELINOS & TOULA EVANGELINOS	4-CC19-171
D9	LINDY L. GALIANO	4-CC19-170
E9	PETER D'AGOSTINO	4-CC19-188
F9	DANNY NICKOLES & GRACE NICKOLES (LIFE), GREGORY DANIEL NICKOLES, RANDY LEE NICKOLES & JEFFREY OWN NICKOLES	4-CC19-160
G9	DAVID BAKER	4-CC19-164
H9	DOUGLAS P. EMMERTH & PAMELA L. EMMERTH	4-CC19-165
I9	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	4-CC19-168
J9	GRETCHEN MOORE LANGEVIN, TRUSTEE & WESTBANCO BANK INC, TRUSTEE	4-CC20-05
K9	JUDITH ANN BERNARDINI	4-CC20-09
L9	MICHAEL LEE BERNARDINI & JULIE LYNN BERNARDINI	4-CC20-44

REVISIONS:

- △ REVISED REFERENCES 06-05-2020
- △ REVISED DHP 12-16-2020

COMPANY:

SWN
Production Company, LLC

SWN ^{RT} ^A ^{V+} ^{*}
Production Company™

OPERATOR'S STATE OF WV DNR C BRK

WELL #: 10H

DISTRICT:
CROSS CREEK

COUNTY:
BROOKE

API:
47-009-00309
STATE:
WV

DATE: 03-12-2020

DRAWN BY: N. MANO

SCALE: N/A

DRAWING NO:
WELL LOCATION PLAT 5

December 29, 2020

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

RE: Proposed Expedited Modification: State of WV DNR C BRK 6H
State of WV DNR C BRK 8H
State of WV DNR C BRK 10H

Dear Ms. Adkins

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

Enclosed you will find:

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

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

Thank you.

Sincerely,



Brittany Woody
Senior Regulatory Analyst
Southwestern Energy Production Company, LLC

RECEIVED
Office of Oil and Gas

DEC 30 2020

WV Department of
Environmental Protection

