



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Wednesday, May 3, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit Modification Approval for VERNON JOHNSON WTZ 401H
47-103-03520-00-00

REVISING 6A1

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 blue ink signature of James A. Martin, Chief, is written over the name and title.

James A. Martin
Chief

Operator's Well Number: VERNON JOHNSON WTZ 401H
Farm Name: VERNON S JOHNSON ESTATE
U.S. WELL NUMBER: 47-103-03520-00-00
Horizontal 6A New Drill
Date Modification Issued: 05/03/2023

Promoting a healthy environment.

05/05/2023

OK # 1073935
4/11/23
\$ 5,000.00

Expedite Mad
API NO. 47-009 10303520
OPERATOR WELL NO. Vernon Johnson Wtz 401H
Well Pad Name: Vernon Johnson Wtz

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 103-Wetzel 3-Clay 438-Littleton
Operator ID County District Quadrangle

2) Operator's Well Number: Vernon Johnson Wtz 401H Well Pad Name: Vernon Johnson Wtz

3) Farm Name/Surface Owner: Vernon S. Johnson Estate Public Road Access: Rice Ridge Road

4) Elevation, current ground: 1432' Elevation, proposed post-construction: 1432'

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

(b) If Gas Shallow Deep _____
Horizontal _____

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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- 7665', Target Base TVD- 7713', Anticipated Thickness- 48', Associated Pressure- 5013

8) Proposed Total Vertical Depth: 7678'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 30000'

11) Proposed Horizontal Leg Length: 20391.67'

12) Approximate Fresh Water Strata Depths: 440'

13) Method to Determine Fresh Water Depths: Salinity Profile and Nearby Logs from Vernon Johnson Wtz 10H API 47-103-02714

14) Approximate Saltwater Depths: 1795' Salinity Profile analysis and nearby logs

15) Approximate Coal Seam Depths: 1277'

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: _____

Page 1 of 3
Stephen Mccoy
Digitally signed by Stephen Mccoy
Date: 2023.04.14 10:35:52 -04'00'

05/05/2023

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#	136'	136'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	490'	490'	559 sx/CTS
Coal	See	Interm	Casing				
Intermediate	9 5/8"	New	J-55	36#	3089'	3089'	1191 sx/CTS
Production	6"	New	P-110 HP	24#	0'	7000'	
Production	5 1/2"	New	P-110 HP	20#	7000'	30000'	

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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	Interm	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							

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 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. 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- 12,500 psi @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 8.4

22) Area to be disturbed for well pad only, less access road (acres): 5.9

23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

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

See Attachment ***

WV Department of
Environmental Protection

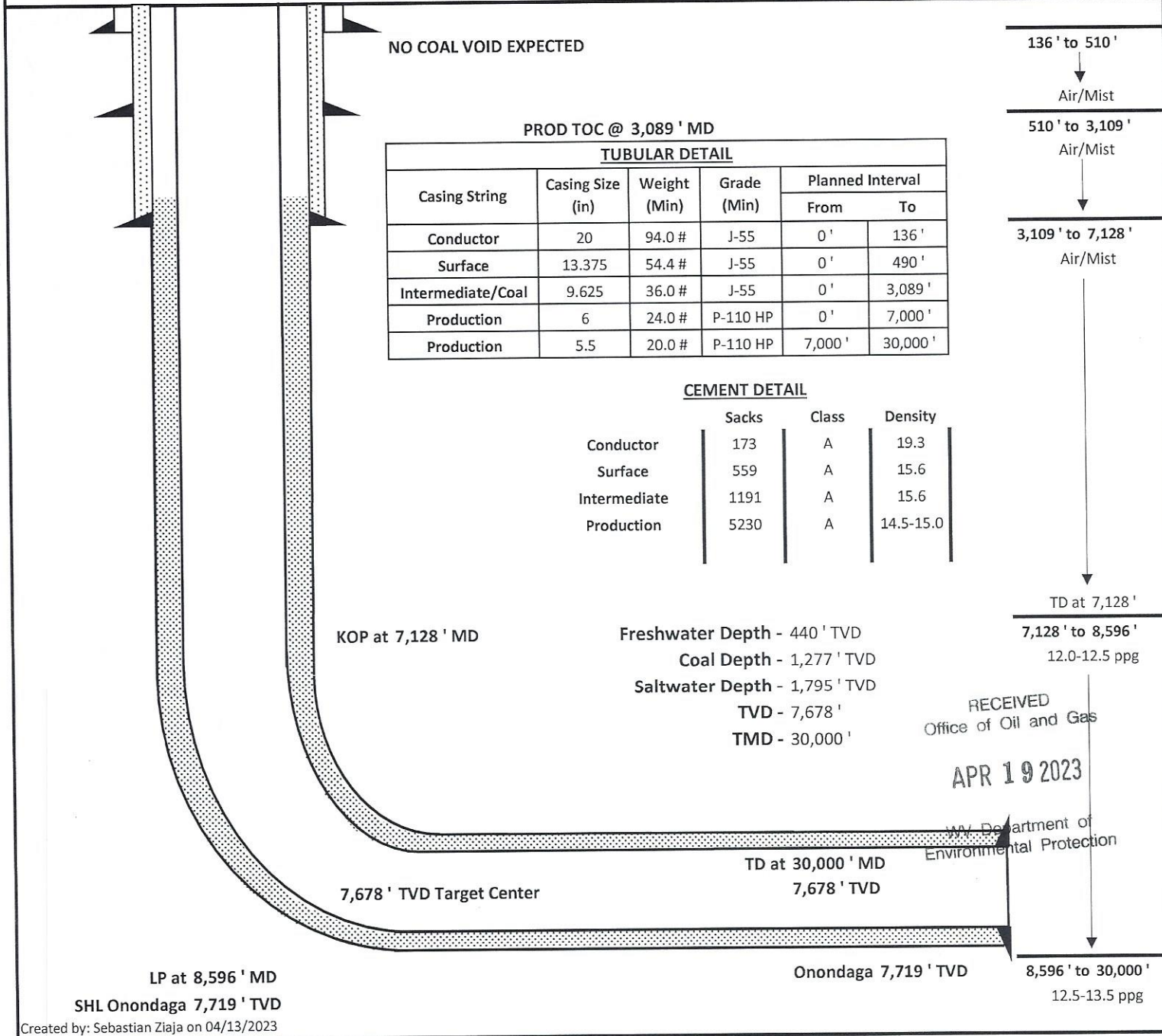
25) Proposed borehole conditioning procedures:

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
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Well: VERNON JOHNSON WTZ 401 Field: VICTORY FIELD WET County: WETZEL SHL (NAD83): 39.717979 Latitude -80.545826 Longitude BHL (NAD83): 39.754212 Latitude -80.597170 Longitude KB Elev: 1,458 ft MSL KB: 26 ft AGL	Re-entry Rig: SDC 40 Prospect: Marcellus Shale State: WV GL Elev: 1,432 ft MSL
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NO COAL VOID EXPECTED

PROD TOC @ 3,089' MD

TUBULAR DETAIL					
Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	136'
Surface	13.375	54.4 #	J-55	0'	490'
Intermediate/Coal	9.625	36.0 #	J-55	0'	3,089'
Production	6	24.0 #	P-110 HP	0'	7,000'
Production	5.5	20.0 #	P-110 HP	7,000'	30,000'

CEMENT DETAIL

	Sacks	Class	Density
Conductor	173	A	19.3
Surface	559	A	15.6
Intermediate	1191	A	15.6
Production	5230	A	14.5-15.0

KOP at 7,128' MD

Freshwater Depth - 440' TVD
 Coal Depth - 1,277' TVD
 Saltwater Depth - 1,795' TVD
 TVD - 7,678'
 TMD - 30,000'

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LP at 8,596' MD
 SHL Onondaga 7,719' TVD

Onondaga 7,719' TVD

7,678' TVD Target Center

TD at 30,000' MD
 7,678' TVD

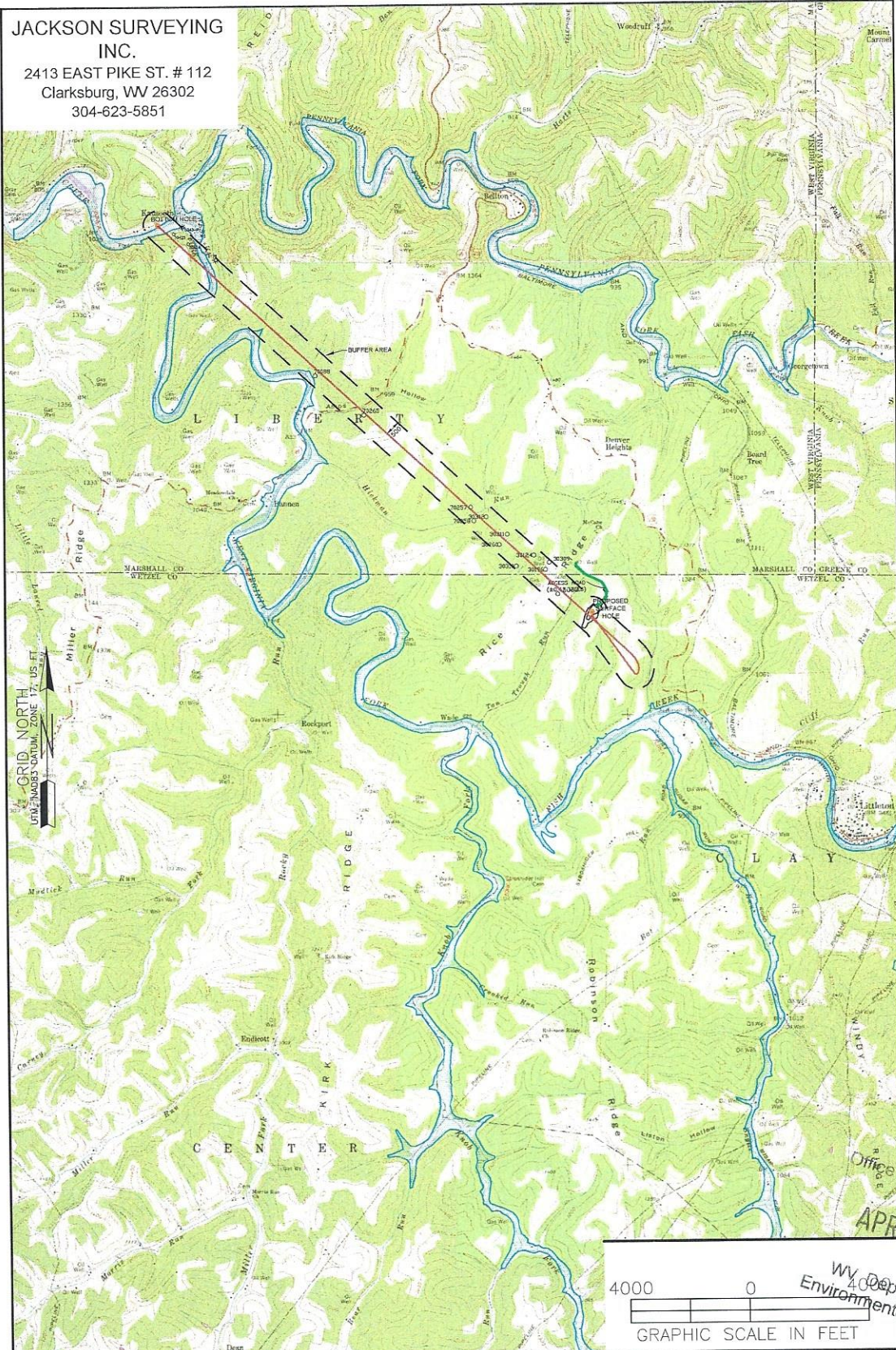
8,596' to 30,000'
 12.5-13.5 ppg

Created by: Sebastian Zlaja on 04/13/2023

Stephen McCoy

05/05/2023

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
- - - ASDRILLED PATH

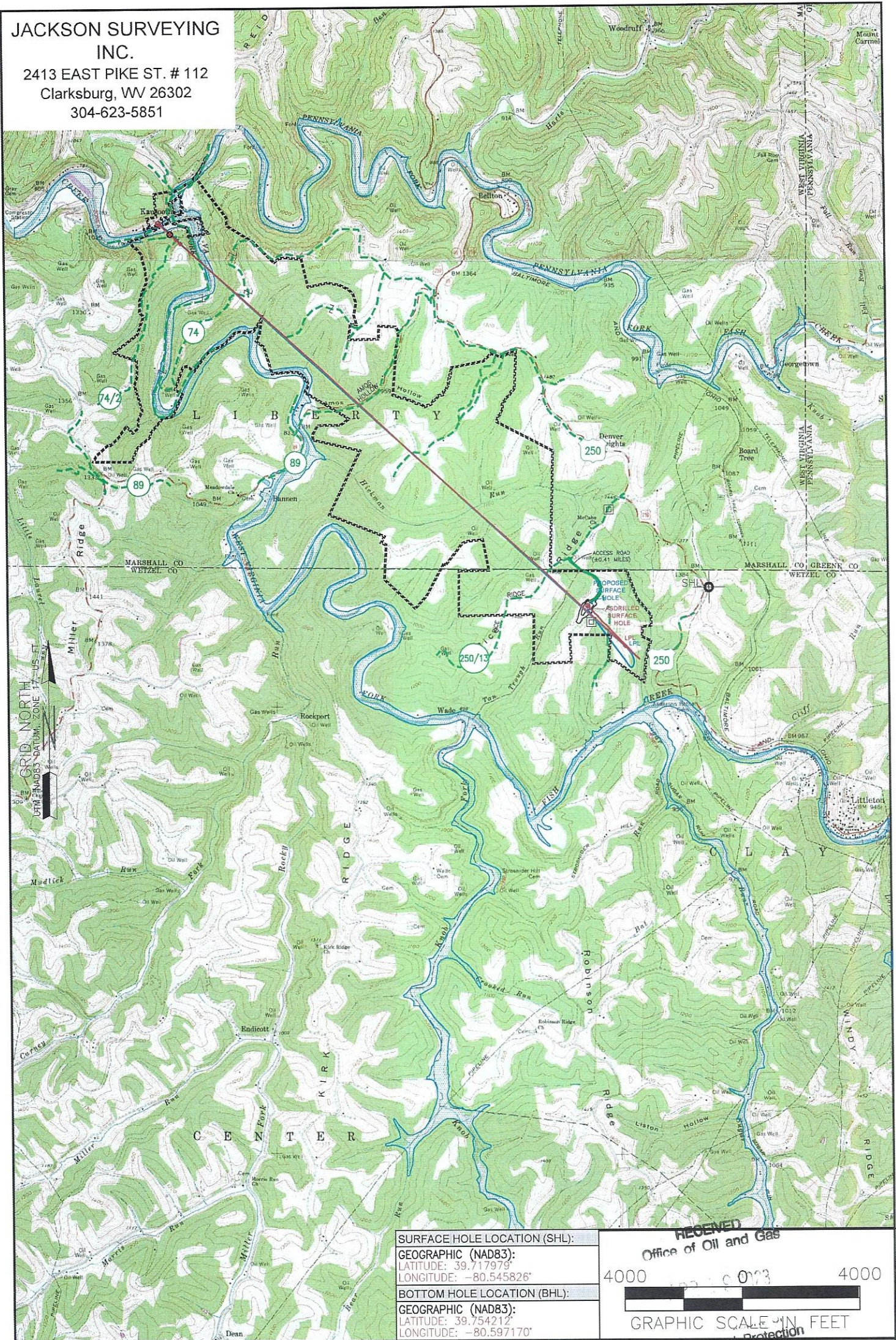
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: VERNON JOHNSON WTZ	WELL # 401H	SERIAL #
ADDRESS: 1300 FORT PIERPONT ROAD SUITE 200 MORGANTOWN, WV 26308	COUNTY - CODE WETZEL - 103	DISTRICT; CLAY	
SURFACE OWNER: VERNON S. JOHNSON ESTATE	USGS 7 1/2 QUADRANGLE MAP NAME LITTLETON, WV	API #: 047-103-	

Z:\2022 BACKUPS\1-03-22 DJ\SWN\VERNON JOHNSON\VERNON JOHNSON\WELL PLAT\401H\FINAL\401H 6-13-22\JOHNSON 401H WELL PLAT 6-13-22.DWG PROPERTY NUMBER 2501174250
 MONDAY JUNE 13 2022 04:15PM PAD ID 3001155650

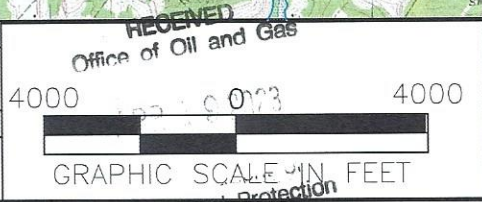
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 APR 19 2023
 WV Department of Environmental Protection

05/05/2023

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



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.717979°
LONGITUDE: -80.545826°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.754212°
LONGITUDE: -80.597170°



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.
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LEGEND:

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

05/05/2023

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: VERNON JOHNSON WTZ	WELL # 401H	SERIAL #
ADDRESS: 1300 FORT PIERPONT ROAD SUITE 200 MORGANTOWN, WV 26308	COUNTY - CODE WETZEL - 103	DISTRICT; CLAY	
SURFACE OWNER: VERNON S. JOHNSON ESTATE	USGS 7 1/2 QUADRANGLE MAP NAME LITTLETON, WV	API #: 047-103-03520	

Latitude: 39°45'00" SURFACE HOLE 1,169'

JACKSON SURVEYING

Latitude: 39°47'30" BOTTOM HOLE 3,888'

BOTTOM HOLE 3,888'

INC.

2413 EAST PIKE ST. # 112

Clarksburg, WV 26302

304-623-5851

SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,396,555.025
EASTING: 538,927.278

LANDING POINT LOCATION (LPL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,396,134.602
EASTING: 539,310.053

AZIMUTH POINT LOCATION-1 (AZL1):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,400,342.697
EASTING: 534,735.880

AZIMUTH POINT LOCATION-2 (AZL2):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,400,382.016
EASTING: 534,693.421

AZIMUTH POINT LOCATION-3 (AZL3):

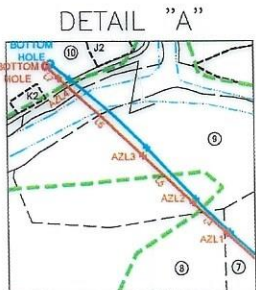
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,400,441.376
EASTING: 534,630.486

AZIMUTH POINT LOCATION-4 (AZL4):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,400,540.318
EASTING: 534,524.482

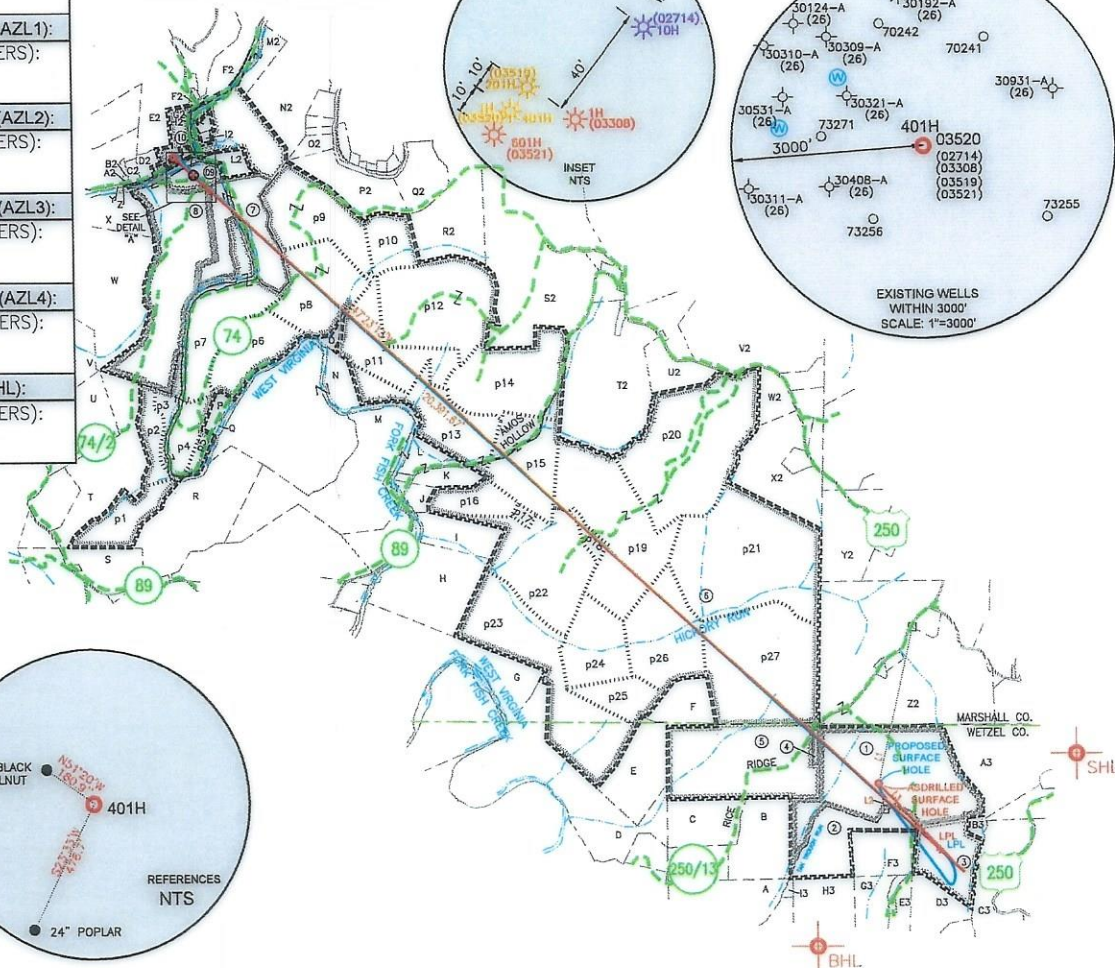
BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,400,555.262
EASTING: 534,508.437



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 12°48'46" E	3348.41'	SHL TO LANDMARK	30" POPLAR FOUND
L2	S 11°55'34" E	561.01'	SHL TO LANDMARK	LARGE POST FOUND
L5	N 46°40'28" W	283.83'	AZL2 TO AZL3	
L7	N 47°47'11" W	71.64'	AZL4 TO BHL	

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 42°18'59" E	1865.38'	3,226.34'	SHL TO LP
L4	N 47°11'55" W	189.86'	189.87'	AZL1 TO AZL2
L6	N 46°58'25" W	475.73'	475.74'	AZL3 TO AZL4



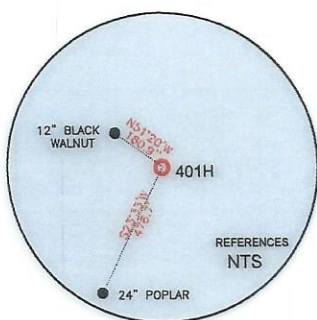
Longitude: 80°35'00"

Longitude: 80°32'30"

BOTTOM HOLE 13,644'

SURFACE HOLE 11,664'

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



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. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO PERENNIAL 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.

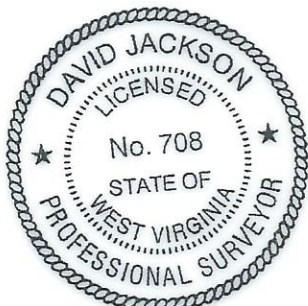
NOTES ON SURVEY

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 PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. 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



4000 0 4000

GRAPHIC SCALE IN FEET

COMPANY:

SWN

SWN

Production Company, LLC

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 #: VERNON JOHNSON WTZ 401H
API WELL #: 47 STATE 103 COUNTY 03520 PERMIT

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

WATERSHED: WEST VIRGINIA FORK FISH CREEK (HUC-10) ELEVATION: 1,431.6'

DISTRICT: CLAY COUNTY: WETZEL QUADRANGLE: LITTLETON, WV

SURFACE OWNER: VERNON S. JOHNSON ESTATE ACREAGE: ±132.00

OIL & GAS ROYALTY OWNER: AMP FUND III; LP: ALICE M. ABEREGG; ELLEN ABEREGG; JAMES J. ABEREGG; KEITH ABEREGG; BRIAN F. BUTLER; RED STONE RESOURCES, LLC; JAMES STONEKING ACREAGE: ±132.00

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 05/05/2023' TMD

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

LEGEND:

	PROPOSED SURFACE HOLE / BOTTOM HOLE		SURVEYED BOUNDARY
	EXISTING / PRODUCING WELLHEAD		DRILLING UNIT
	LPL: LANDING POINT LOCATION		LEASE BOUNDARY
	EXISTING WATER WELL		ASDRILLED PATH
	EXISTING SPRING		PROPOSED PATH
			AZL: AZIMUTH POINT LOCATION

REVISIONS:	DATE:
	04-14-2023
	DRAWN BY: N. MANO
	SCALE: 1" = 4000'
	DRAWING NO:
	WELL LOCATION PLAT

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

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,396,555.081 EASTING: 538,927.379
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,396,133.715 EASTING: 539,310.251
AZIMUTH POINT LOCATION-1 (AZL1):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,400,343.350 EASTING: 534,739.199
AZIMUTH POINT LOCATION-2 (AZL2):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,400,385.812 EASTING: 534,696.183
AZIMUTH POINT LOCATION-3 (AZL3):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,400,450.966 EASTING: 534,634.595
AZIMUTH POINT LOCATION-4 (AZL4):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,400,539.166 EASTING: 534,537.690
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,400,557.917 EASTING: 534,513.687

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	JOHNSON VERNON S EST (S)/ AMP FUND III, LP; ALICE M. ABEREGG; ELLEN ABEREGG; JAMES J. ABEREGG; KEITH ABEREGG; BRIAN F. BUTLER; RED STONE RESOURCES, LLC; JAMES STONEKING (R)	3-1-1
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	DRAHEIM HERBERT P ET AL (S)	3-1-6
3	MILLIKEN KEVIN R ETAL (S)	3-1-4
4	LONG LONNY DAVID & LINDA SUE (S)	1-3-2.1
5	JAMES J ABEREGG ET AL (S)	1-3-2
6	W VA WILDLIFE RESOURCES SECTION (S)	7-24-1
7	FROMHART BRAD ET UX - LIFE (S)	7-20-41
8	GRIBBEN M PEGGY REVOCABLE LIVING TRUST (S)	7-19-28
9	UNDERDONK ALAN (S)	7-16-25.1
10	CUMPSTON GAIL (S)	7-19-20

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	MCGUFFIE ARCH	1-6-5
B	WILLIAMS JOHN EDWARD	1-3-9
C	WILLIAMS LONNIE L	1-3-7
D	SEIDLER EARL DALE & NETTIE	1-2-6.1
E	WILLIAMS KATHERINE E TRUST	1-3-1
F	WADE MICHAEL CLAY & MCCLELLAND LAWRENCE W - TOD ET AL	7-24-6
G	VELLEKOOP PETER B ET UX - TOD	7-27-13
H	VELLEKOOP PETER B ET UX - TOD	7-27-11
I	VELLEKOOP PETER B ET UX - TOD	7-27-10.1
J	VELLEKOOP PETER B ET UX - TOD	7-26-6.2
K	VELLEKOOP PETER B ET UX - TOD	7-26-6.1
L	GEDEON DANIEL D ET UX	7-26-6
M	YOCUM JOSEPH LEE & MICHAEL D	7-26-9
N	CONSOLIDATED GAS SUPPLY CORP	7-26-8
O	BUZZARD COLIN R	7-26-3
P	HUNDRED RESOURCES INC	7-26-11
Q	BUTLER JOHN M & LISA A	7-26-11.1
R	HORNER DELORSE A	7-26-10
S	RIGGS JOHN E JR & DELANA	7-27-2
T	MORGAN JAMES E - LIFE	7-26-14
U	ROMACK VICTOR A	7-19-38
V	HORNER DELORSE A - LIFE	7-19-30
W	GRIBBEN M PEGGY REVOCABLE LIVING TRUST	7-19-29
X	ZELIC NICK ET UX	7-19-27
Y	HORNER DELORSE A - LIFE	7-19-26
Z	CHURCH OF CHRIST TRUSTEES	7-19-25
A2	COLLINS BRIAN & PAMELA J	7-19-24
B2	COLLINS BRIAN & PAMELA J	7-19-23.1
C2	COLLINS BRIAN & PAMELA J	7-19-23.2
D2	DRUSCHEL JAMES F & JAMIE ANN ET AL	7-19-23
E2	CUMPSTON GEORGE R ET AL	7-16-24
F2	BUTLER JOHN MATTHEW	7-16-39
G2	BURGE JUDITH A & VIRGINIA L BAILEY	7-20-4
H2	CONNELLY CHAS E	7-20-5
I2	MARLING SUELLEN	7-20-3
J2	SHARPENBERG DALTON & DEREK (S)	7-19-21
K2	VUCELICK CHARLES EST	7-19-22
L2	FROMHART BRAD ET UX - LIFE	7-20-01
M2	BURGE JUDITH A & VIRGINIA L BAILEY ET AL	7-16-40
N2	BURGE JUDITH A & VIRGINIA L BAILEY ET AL	7-20-6
O2	GEHO ANNIE L EST	7-20-11
P2	BURLEY AMMON ET UX	7-20-12
Q2	BURLEY AMMON	7-20-18
R2	BURLEY AMMON A	7-20-24
S2	BURLEY AMON A	7-20-37
T2	GRESHAW JASON M & MARY L	7-25-2
U2	BROWN ANDREW C III	7-25-6
V2	HARRINGTON CLYDE F	7-25-7
W2	W VA DEPT OF COMMERCE DIV OF NATURAL RESOURCES	7-25-9
X2	CONAWAY THOMAS EARL JR & CAROLYN K STOWE	7-25-12
Y2	CONAWAY THOMAS E	7-23-1
Z2	PRENDERGAST MICHAEL J & SUELLEN LEMLEY	7-23-26
A3	PRENDERGAST MICHAEL J & SUE ELLEN	3-1-2
B3	WV MINERALS INC	3-1-3
C3	MCDIFFITT WILBERT(WEBB)H TRUST	3-1-35
D3	MILLIKEN KEVIN R ETAL	3-1-13
E3	MILLIKEN KEVIN R ETAL	3-1-12
F3	DRAHEIM HERBERT P ETAL	3-1-5
G3	DRAHEIM GARY WAYNE JR ETAL	3-1-10
H3	DRAHEIM GARY WAYNE JR ETAL	3-1-9
I3	CBC HOLDINGS LLC	3-1-8.1

05/05/2023



REVISIONS:	COMPANY:	 		
	OPERATOR'S	VERNON JOHNSON WTZ	API #:	DATE: 04-14-2023
	WELL #:	401H	047-103-03520	DRAWN BY: N. MANO
	DISTRICT:	CLAY	COUNTY:	SCALE: N/A
		WETZEL	STATE:	DRAWING NO:
			WV	WELL LOCATION PLAT 2

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Form, WW-6A1, by SWN Production Company, L.L.C, as Operator
 Vernon Johnson WTZ 401H
 Wetzel County, West Virginia

		Lois J. Bellaire a/k/a Lois Bellaire, a widow	SWN Production Company, LLC	17.00%	185A/17	
		Mark A. Kraus a/k/a Mark Albert Kraus, a single man	Chesapeake Appalachia, L.L.C.	17.00%	128A/553	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Melissa Campbell	SWN Production Company, LLC	17.00%	186A/505	
		Merle Donna Wright a/k/a Merle Oates a/k/a Merle Donna Oates and Norman L. Wright, her husband	SWN Production Company, LLC	14.00%	184A/407	
		Patrice Strachan, married dealing in her sole and separate property	SWN Production Company, LLC	15.00%	204A/925	
		Patricia Ann McCann a/k/a Patty McCann, a/k/a Patricia A. McCann, a single woman	Chesapeake Appalachia, L.L.C.	17.00%	127A/367	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Robert A. Petite, Jr. a/k/a Robert Petite, Jr. and Anita F. Petite, his wife	Chesapeake Appalachia, L.L.C.	12.50%	100A/858	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Ronald T. Frederickson and Jeanette Frederickson, his wife	Chesapeake Appalachia, L.L.C.	17.00%	127A/372	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Suzanne Rexroad, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	109A/29	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Silvia Phillips a/k/a Sylvia Phillips, a widow	Chesapeake Appalachia, L.L.C.	17.00%	134A/3	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Terri Barrow, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	204A/776	
		William F. Vieweg a/k/a William Francis Vieweg and Susan Vieweg, his wife	SWN Production Company, LLC	17.50%	186A/507	
4	1-3-2.1	Royalty Owners	N/A	N/A	N/A	0.6944%
		Alan R. Bradley	SWN Production Company, LLC	12.50%	187A/685	
		Black Bear Oil & Gas, LLC	Chesapeake Appalachia, LLC	17.00%	156A/482	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		165A/673	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		167A/9	
		DJK Oil & Gas Sugar Run, LLC	Chesapeake Appalachia, LLC	12.50%	128A/659	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Donna McGlone	SWN Production Company, LLC	12.50%	186A/258	
		Dwight D. Hall and Patti Jo Hall, husband and wife	SWN Production Company, LLC	16.00%	200A/7	
		Faye Anne Gore	SWN Production Company, LLC	16.00%	187A/689	
		James L. Hall	SWN Production Company, LLC	18.00%	201A/572	
		James Smith Jr., a single man	SWN Production Company, LLC	12.50%	199A/924	
		Jan Rose Smallwood	SWN Production Company, LLC	16.00%	188A/880	
		Creta G. Kilcoyne, widow, by her attorney-in-fact Barbara J. Kilcoyne	Chesapeake Appalachia, LLC	12.50%	90A/78	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Karen Sue Measley, f/k/a Karen Sue Francis Hall and Ross Edwin Measley, Jr., her husband	SWN Production Company, LLC	16.00%	200A/1	
		Lana B. Kuhl	SWN Production Company, LLC	12.50%	188A/482	
		Anna L. Buzzard	Chesapeake Appalachia, LLC	12.50%	90A/1	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Marlene Kay Musgrave and Wayne T. Musgrave, wife and husband	SWN Production Company, LLC	12.50%	202A/30	
		Max Hinerman and Loretta Hinerman, his wife	SWN Production Company, LLC	16.00%	187A/687	
		Patricia Wheeler Castelli a/k/a Patricia Ann Hall Wheeler a/k/a Patricia Ann Hall Smith, married, dealing in sole and separate property	SWN Production Company, LLC	12.50%	198A/155	
		Sue Carol Anglin	SWN Production Company, LLC	16.00%	199A/943	
		Thomas G. Hall, a married man dealing in his sole and separate property	SWN Production Company, LLC	16.00%	199A/938	
5	1-3-2	Royalty Owners	N/A	N/A	N/A	0.6944%
		Alan R. Bradley	SWN Production Company, LLC	12.50%	187A/685	
		Black Bear Oil & Gas, LLC	Chesapeake Appalachia, LLC	17.00%	156A/482	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		165A/673	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		167A/9	
		DJK Oil & Gas Sugar Run, LLC	Chesapeake Appalachia, LLC	12.50%	128A/659	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Donna McGlone	SWN Production Company, LLC	12.50%	186A/258	
		Dwight D. Hall and Patti Jo Hall, husband and wife	SWN Production Company, LLC	16.00%	200A/7	
		Faye Anne Gore	SWN Production Company, LLC	16.00%	187A/689	
		James L. Hall	SWN Production Company, LLC	18.00%	201A/572	
		James Smith Jr., a single man	SWN Production Company, LLC	12.50%	199A/924	
		Jan Rose Smallwood	SWN Production Company, LLC	16.00%	188A/880	
		Creta G. Kilcoyne, widow, by her attorney-in-fact Barbara J. Kilcoyne	Chesapeake Appalachia, LLC	12.50%	90A/78	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Karen Sue Measley, f/k/a Karen Sue Francis Hall and Ross Edwin Measley, Jr., her husband	SWN Production Company, LLC	16.00%	200A/1	
		Lana B. Kuhl	SWN Production Company, LLC	12.50%	188A/482	
		Anna L. Buzzard	Chesapeake Appalachia, LLC	12.50%	90A/1	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Marlene Kay Musgrave and Wayne T. Musgrave, wife and husband	SWN Production Company, LLC	12.50%	202A/30	
		Max Hinerman and Loretta Hinerman, his wife	SWN Production Company, LLC	16.00%	187A/687	
		Patricia Wheeler Castelli a/k/a Patricia Ann Hall Wheeler a/k/a Patricia Ann Hall Smith, married, dealing in sole and separate property	SWN Production Company, LLC	12.50%	198A/155	
		Sue Carol Anglin	SWN Production Company, LLC	16.00%	199A/943	
		Thomas G. Hall, a married man dealing in his sole and separate property	SWN Production Company, LLC	16.00%	199A/938	
6	7-24-1 pt. 27	Hayhurst Company, a Florida General Partnership	Chesapeake Appalachia, L.L.C.	17.000%	723/624	0.0000%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		James Edward Doull, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.500%	685/221	

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 Vernon Johnson WTZ 401H
 Wetzel County, West Virginia

		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Ernest N. Keller a/k/a Ernest M. Keller and Pearl H. Keller, his wife	Chesapeake Appalachia, L.L.C.	12.50%	683/890	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Robert Lee Keller and Mary Kay Keller, his wife	Chesapeake Appalachia, L.L.C.	12.50%	683/349	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Carolyn Joyce Daugherty, single	Chesapeake Appalachia, L.L.C.	12.50%	684/1	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Neva E. Keller, a widow	Chesapeake Appalachia, L.L.C.	12.50%	688/127	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Donna J. Savage, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	684/117	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
6	7-24-1 pt. 26	Christopher G. Adams and Frica Adams, his wife	Chesapeake Appalachia, L.L.C.	17.00%	761/402	0.0000%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Derrick H. Adams and Suzanne Adams, his wife	Chesapeake Appalachia, L.L.C.	17.00%	761/395	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Paul Charles Adams, a single man	Chesapeake Appalachia, L.L.C.	17.00%	750/169	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Bruce D. Bonar and Sandra C. Bonar, his wife	Chesapeake Appalachia, L.L.C.	17.00%	751/608	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Lee D. Bonar and Bonnie M. Bonar, his wife	Chesapeake Appalachia, L.L.C.	17.00%	747/270	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Charles W. Bonar and Charlotte L. Bonar, his wife	Chesapeake Appalachia, L.L.C.	17.00%	755/109	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow	SWN Production Company, L.L.C.	16.00%	951/337	
		Ronald E. Bonar, a single man	Chesapeake Appalachia, L.L.C.	17.00%	754/616	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		The Estate of Richard L. Bonar, by Sandra J. Bonar, acting as Executor and Sandra J. Bonar, a widow	Chesapeake Appalachia, L.L.C.	17.00%	751/167	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		William D. Bonar and Gloria A. Bonar, his wife	Chesapeake Appalachia, L.L.C.	17.00%	746/271	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Arnell Elizabeth Bowser and Glen F. Bowser, her husband	Chesapeake Appalachia, L.L.C.	17.00%	778/28	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Cornelia C. Browne, widow	SWN Production Company, L.L.C.	16.00%	955/350	
		Clyde W. Caseman and Alicia L. Caseman, his wife	Chesapeake Appalachia, L.L.C.	17.00%	748/401	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Joseph W. Caseman and Gretchen V. Caseman, his wife	Chesapeake Appalachia, L.L.C.	17.00%	747/600	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Nelda S. Clark, widow	SWN Production Company, L.L.C.	16.00%	955/243	
		Robert Clark Adams and Charlotte A. Adams, his wife	Chesapeake Appalachia, L.L.C.	17.00%	749/622	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		David Edwards, single	SWN Production Company, L.L.C.	17.00%	1046/565	
		Richard Cunliffe Edwards, a/k/a Richard Cunliffe Edwards, a widower	Chesapeake Appalachia, L.L.C.	17.00%	775/409	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Richard Edwards, married dealing in his sole and separate property	SWN Production Company, L.L.C.	17.00%	961/213	
		Thomas Edwards, married dealing in his sole and separate property	SWN Production Company, L.L.C.	17.00%	962/430	
		Roberta M. Snyder, a/k/a Roberta Mary Clark, a widow	Chesapeake Appalachia, L.L.C.	17.00%	749/96	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Sandra K. Groux and Harry W. Groux, her husband	Chesapeake Appalachia, L.L.C.	17.00%	748/503	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Edward Martin Sedor, a widower, by his Attorney-In-Fact, Mark A. Sedor	SWN Production Company, L.L.C.	17.00%	890/158	
		William L. McCutcheon, a widower	Chesapeake Appalachia, L.L.C.	17.00%	751/602	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Patricia Austin Meyer, married dealing in her sole and separate property	SWN Production Company, L.L.C.	17.00%	957/589	
		The Estate of John William Orr, Sr., by Linda O. Morgan, a/k/a Linda Orr Morgan, acting as Executrix, Linda O. Morgan, a/k/a Linda Orr Morgan and Gary D. Morgan, her husband, and John W. Orr, Jr., a/k/a John William Orr, Jr. and Susan J. Orr, his wife	Chesapeake Appalachia, L.L.C.	17.00%	768/154	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Susan Diane Clark Neidlinger, divorced	SWN Production Company, L.L.C.	18.00%	963/70	
		Suzanne Patrick, f/k/a Suzanne Edwards, married dealing in her sole and separate property	SWN Production Company, L.L.C.	17.00%	964/66	
		Dorothy Patterson, a single woman	Chesapeake Appalachia, L.L.C.	17.00%	777/481	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		The Mary Kathryn Ray Revocable Trust, dated December 18, 1988, by Mary Kathryn Ray, acting as Trustee	Chesapeake Appalachia, L.L.C.	17.00%	750/118	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Nancy L. Rodgers, f/k/a Nancy Matthews and William I. Rodgers, her husband	Chesapeake Appalachia, L.L.C.	17.00%	748/527	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Cliff Sligar, a married man dealing in his sole and separate property	SWN Production Company, L.L.C.	17.00%	956/244	
		David B. Sligar, a married man dealing in his sole and separate property	SWN Production Company, L.L.C.	17.00%	956/248	
		George Leroy Smith and Evelyn F. Smith, his wife	Chesapeake Appalachia, L.L.C.	17.00%	748/442	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		John Bernard Smith and Ethel Rose Smith, his wife	Chesapeake Appalachia, L.L.C.	17.00%	748/436	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	

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		Malcolm V. Smith, Jr., a widower Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00%	777/487 33/110	
		Russell Lee Smith and Marybelle Smith, his wife Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00%	747/623 33/110	
		Donna R. Walker, a widow Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00%	777/475 33/110	
		Dorothy E. Wheeler, a widow Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00%	750/111 33/110	
		Mary T. Zito, f/k/a Mary T. Nesbitt, f/k/a Mary Bonar Nesbitt, a widow Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00%	764/201 33/110	
6	7-24-1 pt. 19	Mary Frances Anderson, a single woman Dominion Energy Transmission, Inc.	SWN Production Company, L.L.C. SWN Production Company, L.L.C.	12.50% 18.00%	1040/237 977/487	0.0000%
		Frank C. McCuskey and Neva C. McCuskey Trust, dated March 27, 1979, by Dan F. McCuskey, a/k/a Dan Frederick McCuskey, acting as Trustee Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	690/556 33/110	
		Johanna Helfrich Greenwood, married dealing in her sole and separate property Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	715/313 33/110	
		Richard Helfrich, a married man dealing in his sole and separate property Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	715/321 33/110	
		Charles F. McCuskey, Jr., a married man dealing in his sole and separate property Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00%	716/41 33/110	
		Michael McCuskey, a/k/a Michael Paul McCuskey, a married man dealing in his sole and separate property Bill McCuskey, a/k/a William Charles McCuskey and Deena L. McCuskey, husband and wife	SWN Production Company, L.L.C. SWN Production Company, L.L.C.	12.50% 12.50%	1065/82 1064/309	
		Reliant Holdings, LLC, a West Virginia Company, by Peter McCuskey, Managing Member Gretchen Helfrich Zavala, a married woman dealing in her sole and separate property Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50% 12.50%	1063/645 715/316 33/110	
6	7-24-1 pt. 18	Christopher Claude Baughman, a/k/a Christopher C. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC	TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	879/320 41/299	0.0000%
		Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC	TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	876/183 41/299	
		Voncle W. Baughman, a widow TH Exploration, LLC	TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	878/292 41/299	
		Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust TH Exploration, LLC	TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	874/321 41/299	
		Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin Revocable Trust TH Exploration, LLC	TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	873/71 41/299	
		Dorothy Sullivan, a/k/a Dorothy E. Sullivan, a/k/a Dorothy Elizabeth Sullivan, a widow; appearing herein by and through James Rein Sullivan, her Agent and Attorney-in-Fact by Durable Power of Attorney dated April 27th 1998, and unrecorded in Marshall County, West Virginia TH Exploration, LLC	TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	876/43 41/299	
6	7-24-1 pt. 22	Christopher Claude Baughman, a/k/a Christopher C. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC	TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	879/320 41/299	0.0000%
		Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC	TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	876/183 41/299	
		Voncle W. Baughman, a widow TH Exploration, LLC	TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	878/292 41/299	
		Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust TH Exploration, LLC	TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	874/321 41/299	
		Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin Revocable Trust TH Exploration, LLC	TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	873/71 41/299	
		Dorothy Sullivan, a/k/a Dorothy E. Sullivan, a/k/a Dorothy Elizabeth Sullivan, a widow; appearing herein by and through James Rein Sullivan, her Agent and Attorney-in-Fact by Durable Power of Attorney dated April 27th 1998, and unrecorded in Marshall County, West Virginia TH Exploration, LLC	TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	876/43 41/299	

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 Vernon Johnson WTZ 401H
 Wetzel County, West Virginia

		TH Exploration, LLC	SWN Production Company, LLC and Statoil USA Onshore Properties Inc.		41/299	
6	7-24-1 pt. 15	Royalty Owners	N/A	N/A	N/A	2.0833%
		The Security Trust Company, a Corporation, as Attorney-in-Fact for Judith M. Blue, Josephine C. Blue, Ellen D. Hoge, Virginia H. Randolph, Augusta L. Randolph, Augusta Hoge Evans, Joan B. Hoge, Mary W. Wright, Lucius H. Wilson, Mary Ellen Mumford, Richard H. Hoge, George H. Hoge, Audrey May Meyer, Elizabeth N. Wild and Elizabeth Wood; and the Estate of Mary C. Walker	The Manufacturers Light and Heat Company	12.50%	353/111	
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/322	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
6	7-24-1 pt. 13	Richard E. Walker and Roberta Walker; Mary Hoge Lea and Warren J. Lea; Richard E. Walker, as Executor of the Estate of Edward C. Walker; for the Heirs at Law of Isaac Hoge	The Manufacturers Light and Heat Company	12.50%	363/195	0.0000%
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/322	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
6	7-24-1 pt. 11	Royalty Owners	N/A	N/A	N/A	16.4683%
		Franklin Thomas Barrett, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	1010/272	
		Ammon A. Burley and Flora J. Burley, husband and wife	SWN Production Company, L.L.C.	15.00%	919/345	
		Timothy N. Burley and Connie Burley, husband and wife	SWN Production Company, LLC	18.00%	974/325	
		Krystal K. Camp and Tom Camp, wife and husband	SWN Production Company, LLC	18.00%	967/117	
		Donald Scott Conaway, a single man	SWN Production Company, L.L.C.	16.00%	932/629	
		Robert W Conaway, Jr., a single man	SWN Production Company, L.L.C.	16.00%	932/636	
		Ronald W. Conaway, a/k/a Ronald Wayne Conaway, a married man dealing in his sole and separate property	SWN Production Company, LLC	17.00%	1046/269	
		David S. Dever, a married man dealing in his sole and separate property	SWN Production Company, LLC	17.00%	1052/444	
		Gregory T. Dever, a married man dealing in his sole and separate property	SWN Production Company, LLC	16.00%	1010/621	
		John A. Dever, a widower	SWN Production Company, LLC	17.00%	1052/439	
		Annette Mary Dever, Trustee of the Annette and Larry Dever Revocable Trust, dated April 22, 2016	SWN Production Company, LLC	17.00%	1052/81	
		Jeffrey L. Fish, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	976/113	
		Michael A. Fish and Debra L. Fish, husband and wife	SWN Production Company, LLC	18.00%	967/125	
		Charles Wayne Geho, a married man dealing in his sole and separate property	SWN Production Company, LLC	16.00%	966/408	
		Vanita and Cordova Holding Company, LLC, William H. Gaston, Managing Member	SWN Production Company, L.L.C.	17.00%	1097/361	
		Kathy Watkins Hoopes, a/k/a Kathy Jo Watkins and David E. Hoopes, wife and husband	SWN Production Company, L.L.C.	15.00%	925/539	
		Bernadette F. Livingston, Trustee of the Margaret J. Kaczorowski Revocable Trust Agreement, dated the 21st day of November, 2006	SWN Production Company, LLC	16.00%	966/421	
		Andrea M. Davis, Agent and Attorney-in-Fact for Deborah K. Kincaid, a single woman	SWN Production Company, LLC	17.00%	1052/76	
		Annette Aldine Lloyd, a widow	SWN Production Company, LLC	18.00%	969/288	
		Beulah Kathleen Maskey, a widow	SWN Production Company, LLC	17.00%	965/31	
		Donald Marlin Watkins, a/k/a Marlin Watkins and Myra L. Watkins, husband and wife	SWN Production Company, L.L.C.	15.00%	919/161	
		Sharon Neala Zeppernick, a/k/a Sharon Neala Barrett Zeppernick, a married woman dealing in her sole and separate property	SWN Production Company	18.00%	1010/268	
		Robert L. Burley, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	1135/347	
		Wayne E. Burley, a single man	SWN Production Company, LLC	15.00%	1135/330	
		Elizabeth Ann Cain, a widow	SWN Production Company, LLC	18.00%	1135/319	
		First Assembly of God Church	SWN Production Company, LLC	17.00%	1135/352	
		George L. Hale, Jr., a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	966/438	
		Barbara J. Burley, a single woman	SWN Production Company, LLC	15.00%	1136/49	
		Roger Lee Cain	SWN Production Company, LLC	18.00%	1135/341	
		Robert Carlton Cain	SWN Production Company, LLC	18.00%	1135/335	
6	7-24-1 pt. 08	Edward C. Walker, widower; Richard E. Walker and Roberta Walker, his wife; Edna Whitlatch and J. B. Whitlatch, her husband; and Security Trust Company, a corporation, for and on behalf and as Attorney in Fact for those heirs at law of Isaac Hoge, hereinafter named, under the signature of said Attorney in Fact	The Manufacturers Light and Heat Company	12.50%	326/505	0.0000%
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/322	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		36/422	
		Edna Whitlatch and J. B. Whitlatch, her husband	The Manufacturers Light and Heat Company	12.50%	375/223	
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/322	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		36/422	

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EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Form, WW-6A1, by SWN Production Company, L.L.C, as Operator
 Vernon Johnson WIZ 401H
 Wetzel County, West Virginia

7	7-20-41	Onward E. Burge, Sarah L. Burge and Stephen W. Burge, Trustees of the Onward E. Burge Trust dated June 21, 2010	Chesapeake Appalachia, L.L.C.	12.50%	676/438	0.0000%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Nancy B. Divita	Chesapeake Appalachia, L.L.C.	12.50%	677/51	
6	7-24-1 pt. 7	W. J. Booher and Virginia H. Booher, his wife	The Manufacturers Light and Heat Company	12.50%	401/473	0.0000%
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
8	7-19-28	Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/322	0.0000%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		James W. Whipkey, single	Chesapeake Appalachia, L.L.C.	12.50%	655/5	
9	7-16-25-1	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		35/32	0.0000%
		O. E. Burge, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	654/382	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
10	7-19-20	Clare Connelly	Guy B. Patterson and A.G. Patterson	12.50%	227/254	0.0000%
		Guy B. Patterson and A. G. Patterson, husband and wife	The Manufacturers Light and Heat Company		2/281	
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
10	7-19-20	Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	0.0000%
		Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/322	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
10	7-19-20	Gail Cumpston Porter, 1/k/a Gail Cumpston, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	17.00%	707/124	0.0000%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Martha Kaye Hill	Chesapeake Appalachia, L.L.C.	12.50%	658/277	
10	7-19-20	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	0.0000%
		Robert Brent Koontz, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	658/280	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
10	7-19-20	Sandra C. Koontz, a widow	SWN Production Company, L.L.C.	16.00%	895/204	0.0000%

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

June 27, 2022

Mr. Charles Brewer
WV DEP Office of Oil & Gas
601 57th St., SE
Charleston, WV 25304

RE: SWN's proposed New Well: Vernon Johnson WTZ 401H in Wetzel County, West Virginia, Drilling under CO 74, CO 74/2, Amos Hollow Road, Rice Ridge Road, Burley Lane, and US-250.

Dear Mr Brewer:

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 CO 74, CO 74/2, Amos Hollow Road, Rice Ridge Road, Burley Lane, and US-250. 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,

Bradley Wilson
Senior Landman
SWN Production Company, LLC

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Environmental Protection

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

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