



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

Monday, August 22, 2022
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit Modification Approval for OCC-A OHI 1H
47-069-00340-00-00

Sidetrack of Lateral

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 written over a faint circular stamp.

James A. Martin
Chief

Operator's Well Number: OCC-A OHI 1H
Farm Name: BOARD OF COMMISSIONERS OHIO COUNTY
U.S. WELL NUMBER: 47-069-00340-00-00
Horizontal 6A New Drill
Date Modification Issued: 8/22/2022

Promoting a healthy environment.

08/26/2022

WW-6B
(04/15)

4706900340
API NO. 47-009
OPERATOR WELL NO. OCC-A OHI 1H
Well Pad Name: OCC A OHI Pad

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: SWN Production Co., LLC 494512924 069-Ohio 7-Triadelj 648-Valley Groev
Operator ID County District Quadrangle

2) Operator's Well Number: OCC-A OHI 1H Well Pad Name: OCC A OHI Pad

3) Farm Name/Surface Owner: Board of Commissioners Ohio County Public Road Access: Rodneys Point Run

4) Elevation, current ground: 1095' Elevation, proposed post-construction: 1095'

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- 6183', Target Base TVD- 6245', Anticipated Thickness- 62', Associated Pressure- 4059

8) Proposed Total Vertical Depth: 6224'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 22956'

11) Proposed Horizontal Leg Length: 14,592.85'

12) Approximate Fresh Water Strata Depths: 393'

13) Method to Determine Fresh Water Depths: Deepest Nearby Water Well

14) Approximate Saltwater Depths: 586'- Salinity Profile

15) Approximate Coal Seam Depths: 462'

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

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

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

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Strader Gower

Strader Gower
8/01/2022

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#	110'	110'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	531'	531'	553 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1881'	1881'	745 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	22956'	22956'	Tail 4089x/ 100' inside Intermediate
Tubing							
Liners							

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							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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Handwritten signature:
 STRICKER GOWEN
 7-20-22

WV Department of Environmental Protection

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 unites, 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): 17.9

22) Area to be disturbed for well pad only, less access road (acres): 3.0

23) Describe centralizer placement for each casing string:

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

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

See Attachment ***

25) Proposed borehole conditioning procedures:

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

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*Note: Attach additional sheets as needed.

4706900340

OCC A OHI 1H ST1

The subject well was drilled to TD of 24,045' MD. Following TD'ing the well, clean-up cycles were performed, cleaning the wellbore of cuttings. On the trip out of the hole, several tight spots were encountered, and we eventually got stuck at 22,780' MD. At that point, we were unable to establish circulation or rotate the drill pipe.

Wireline was run inside of the drill pipe up to the BHA. We perforated the drill pipe 12' from the top of the BHA in an attempt to establish circulation. This effort was deemed unsuccessful.

- 1) The drill pipe was severed via wireline at 18,037' MD.
 - a. 4,639' of drill pipe along with the BHA was left in the hole.
- 2) Cement plugs will be set from 7,200' MD/6,212' TVD to 6,500' MD/5,740' TVD (49 bbl 14.5 ppg) and from 2,800' MD to 1,780' MD (82 bbl 16 ppg).
 - a. The top of the Marcellus formation is located at 7,142' MD/6,186' TVD.
- 3) The plan forward is to sidetrack the well at 2,000' MD. We will re-drill the tangent, curve, and lateral to a TD of 22,956' MD.

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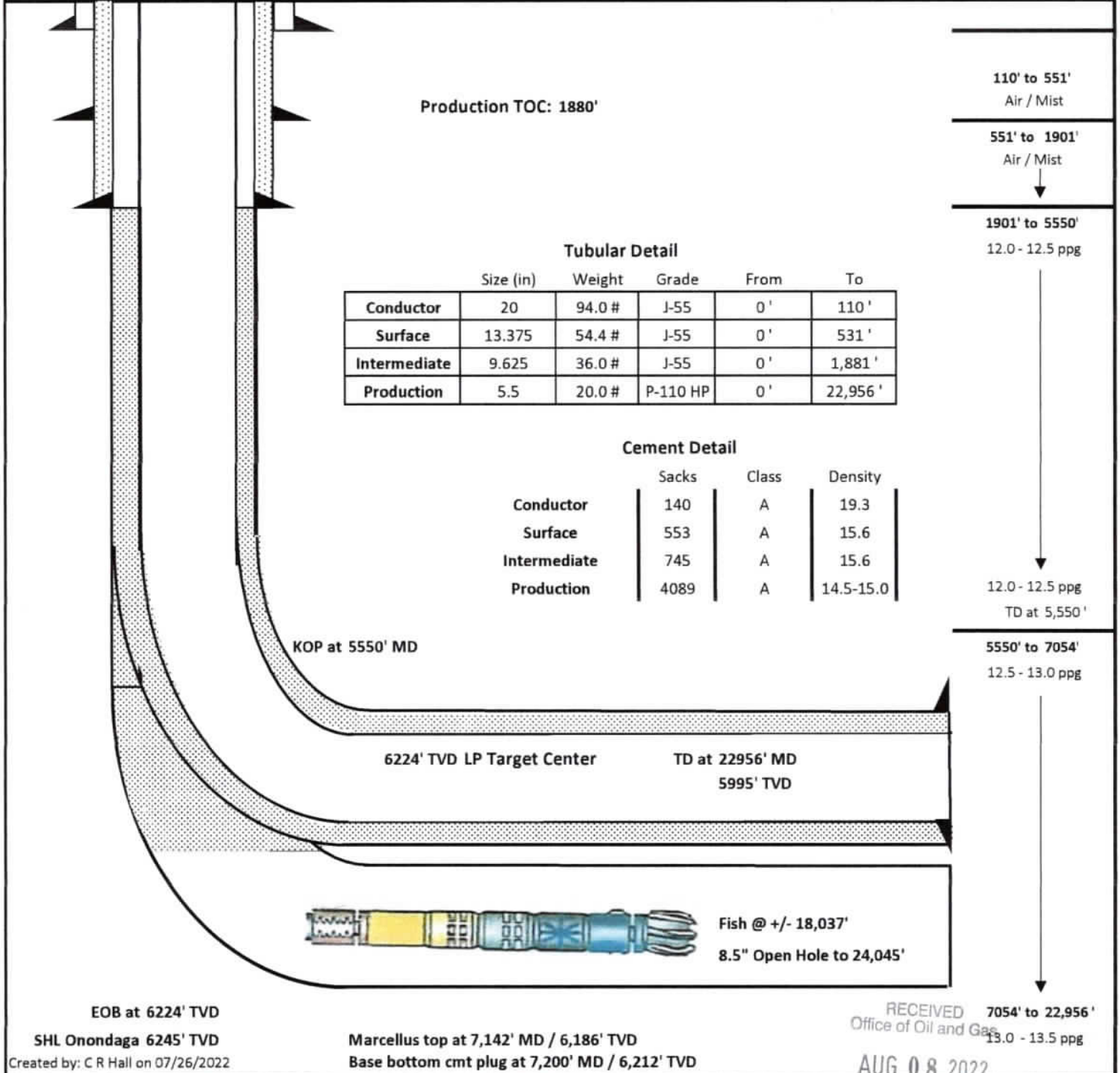
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08/26/2022

Southwestern Energy Company	Proposed Drilling Program
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Well: OCC A OHI 1 ST Field: PANHANDLE FIELD WET County: OHIO SHL: 40.0794 Latitude -80.5981 Longitude BHL: 40.1164 Latitude -80.6200 Longitude KB Elev: 1,122 ft MSL	Re-entry Rig: SDC 40 Prospect: Marcellus Shale State: WV KB: 26 ft AGL GL Elev: 1,096 ft MSL
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Production TOC: 1880'

Tubular Detail

	Size (in)	Weight	Grade	From	To
Conductor	20	94.0 #	J-55	0'	110'
Surface	13.375	54.4 #	J-55	0'	531'
Intermediate	9.625	36.0 #	J-55	0'	1,881'
Production	5.5	20.0 #	P-110 HP	0'	22,956'

Cement Detail

	Sacks	Class	Density
Conductor	140	A	19.3
Surface	553	A	15.6
Intermediate	745	A	15.6
Production	4089	A	14.5-15.0

KOP at 5550' MD

6224' TVD LP Target Center

TD at 22956' MD
5995' TVD



Fish @ +/- 18,037'

8.5" Open Hole to 24,045'

EOB at 6224' TVD

SHL Onondaga 6245' TVD

Marcellus top at 7,142' MD / 6,186' TVD

Base bottom cmt plug at 7,200' MD / 6,212' TVD

Created by: C R Hall on 07/26/2022

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7054' to 22,956'
13.0 - 13.5 ppg

47 069 00340

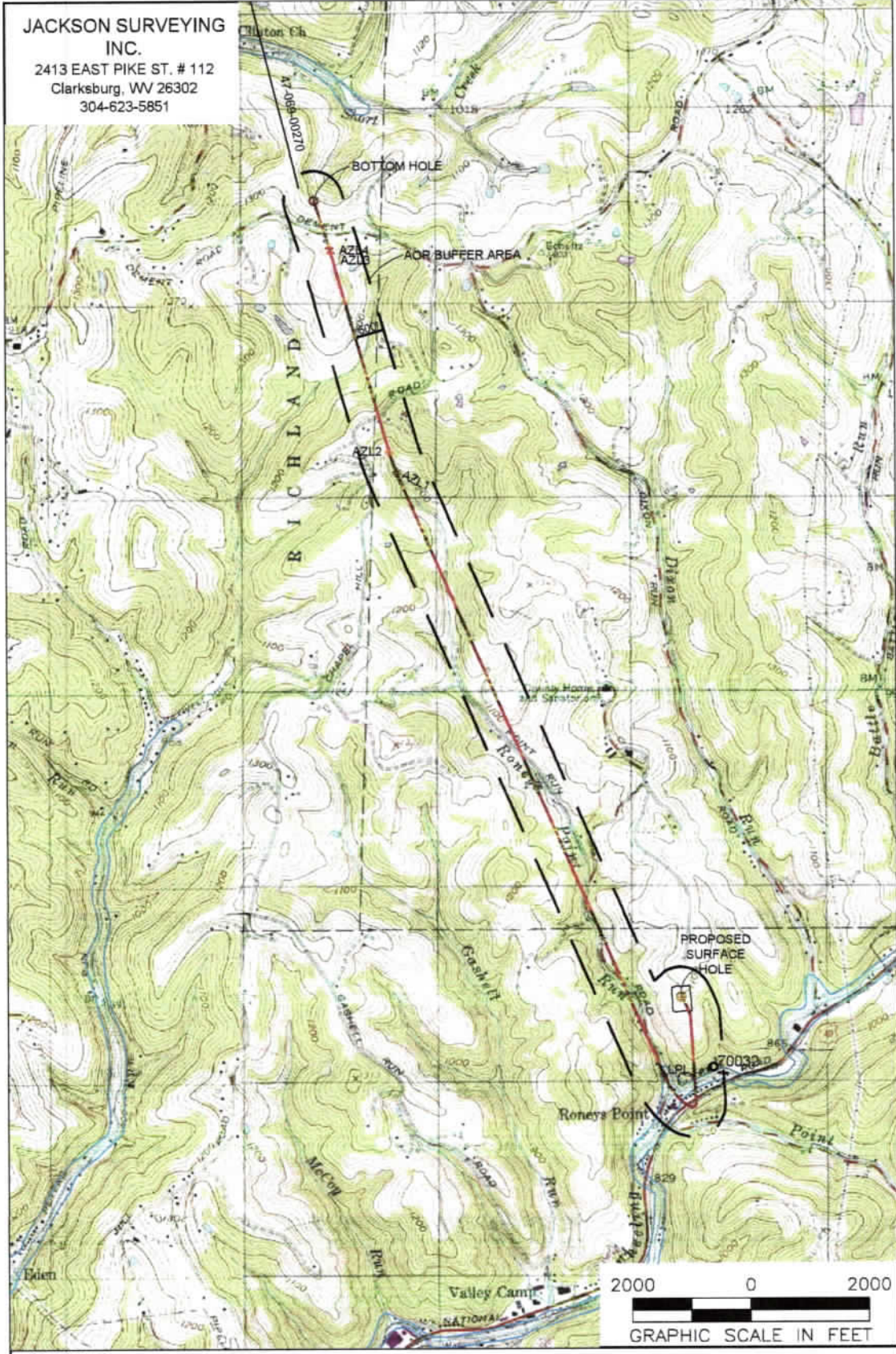
API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formati
47-069-70032	Unknown	Unknown				Unknown
47-069-00270	SWN Production Company, LLC	Active	40.161523	-80.626861	5,940	Marcellus Shale

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08/28/2022



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 PLAN DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSERTS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

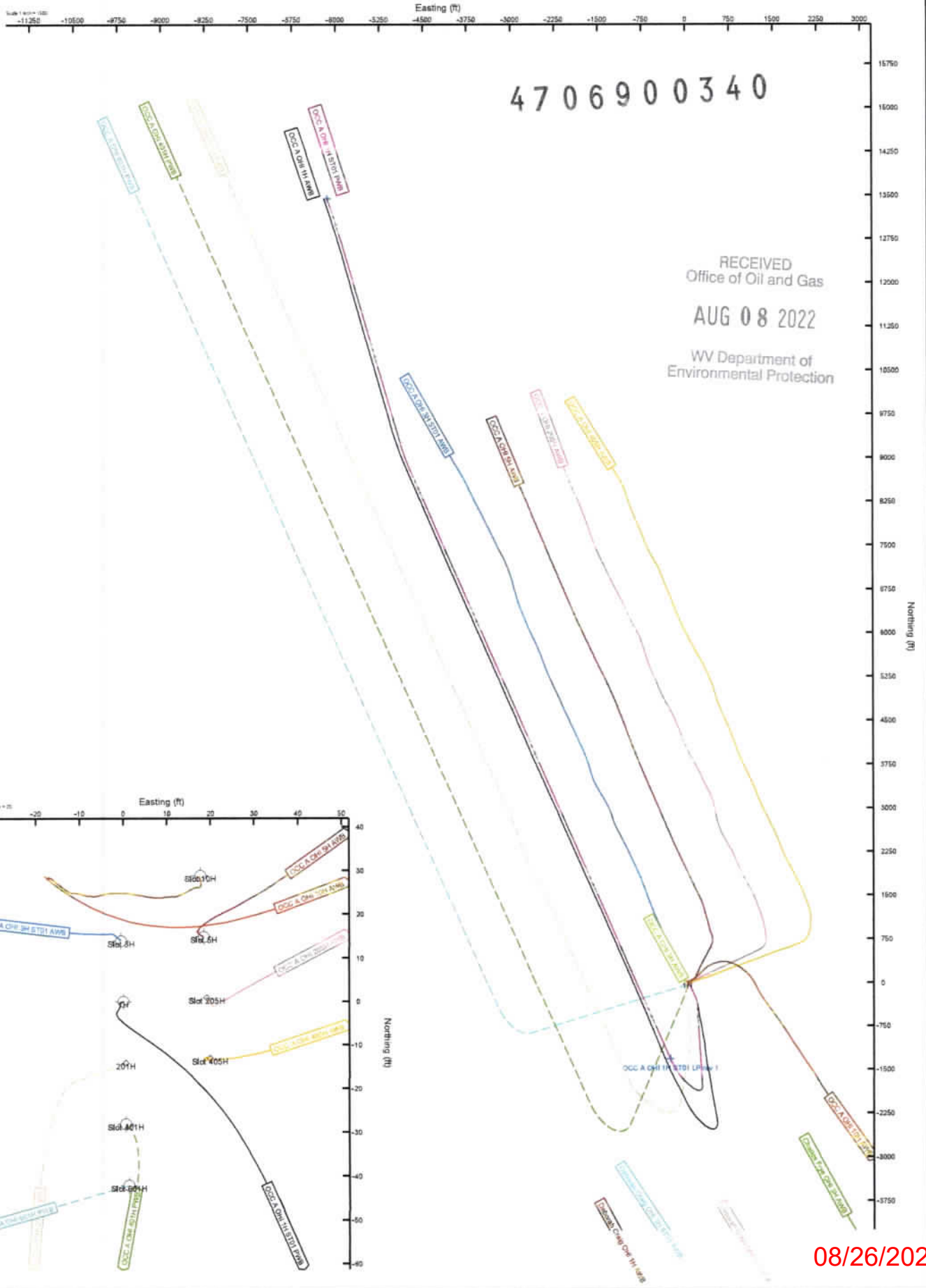
- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ⊗ EXISTING / PRODUCING WELLHEAD
- LPL* LANDING POINT LOCATION
- ⬭ FLOOD PLAN
- ACCESS ROAD
- - - PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- == LEASE BOUNDARY
- PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: OCC A OHI	WELL # 1H	SERIAL #
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200, MORGANTOWN, WV 26508	COUNTY - OHIO	DISTRICT: TRIADDELPHIA	
SURFACE OWNER: BOARD OF COMMISSIONERS OHIO COUNTY	USGS 7 1/2 QUADRANGLE MAP NAME VALLEY GROVE, WV		

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Location: Ohio County, WV
Field: Ohio
Facility: OCC A OHI Pad

Slot: 1H
Well: OCC A OHI 1H
Wellbore: OCC A OHI 1H AWB



08/26/2022

Latitude: 40°05'00"

SURFACE HOLE 4133'

Latitude: 40°07'30" BOTTOM HOLE 10216'

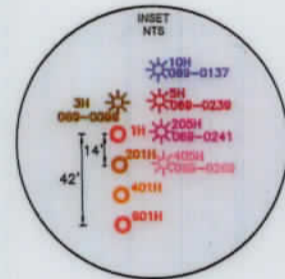
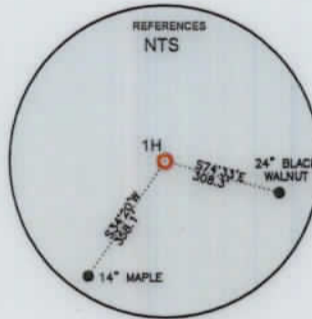
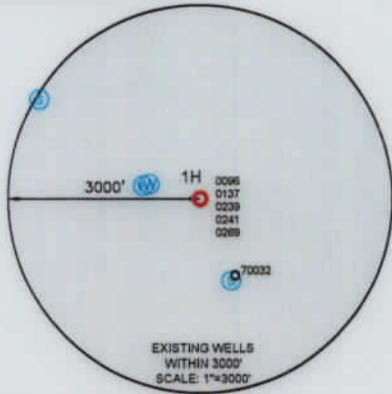
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Table with 2 columns: Location Name and UTM Coordinates (Northing, Easting). Locations include SHL, LPL, AZL1-4, and BHL.

Table with 5 columns: LINE, BEARING, DISTANCE, DESCRIPTION, MONUMENT. Contains survey line data for SHL to landmarks and AZL points.

Longitude: 80°35'00" BOTTOM HOLE 3,139' SURFACE HOLE 1424'



WELL RESTRICTIONS

- List of 6 well restrictions regarding land use, water wells, streams, and public water supply within specific distances.

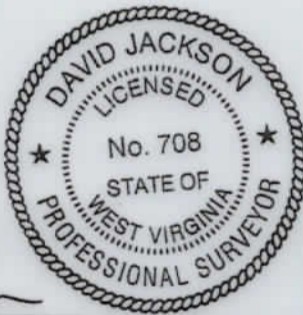
NOTES ON SURVEY

- Notes on survey including boundary information, parcel maps, and grid north reference.

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

Signature of David L Jackson



COMPANY: SWN Production Company, LLC

State of West Virginia seal and WVDEP address: 601 57TH STREET CHARLESTON, WV 25034

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

OCC A OHI. OPERATOR'S WELL #: 1H. API WELL #: 47 STATE, 069 COUNTY, 00340 PERMIT

Well type and ownership information: OIL, WASTE DISPOSAL, PRODUCTION, DEEP, GAS, LIQUID INJECTION, STORAGE, SHALLOW. Includes watershed, district, county, and acreage details.

Well operator and designated agent information: SWN PRODUCTION COMPANY, LLC. Includes addresses and city/state/zip codes.

Legend and Revisions section. Legend includes symbols for proposed surface hole, existing wellhead, landing point, water well, spring, surveyed boundary, drilling unit, lease boundary, proposed path, and azimuth point location.

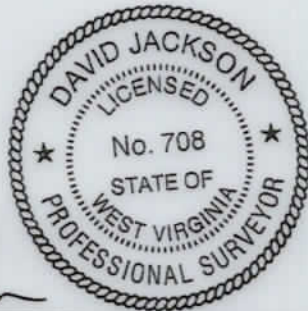
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P.S. 708

David L Jackson

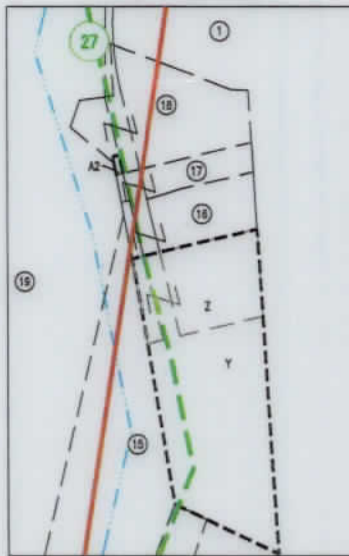


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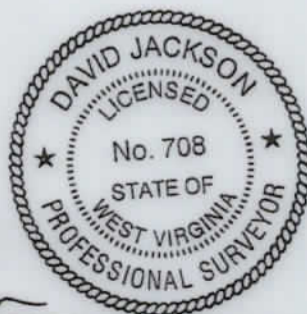
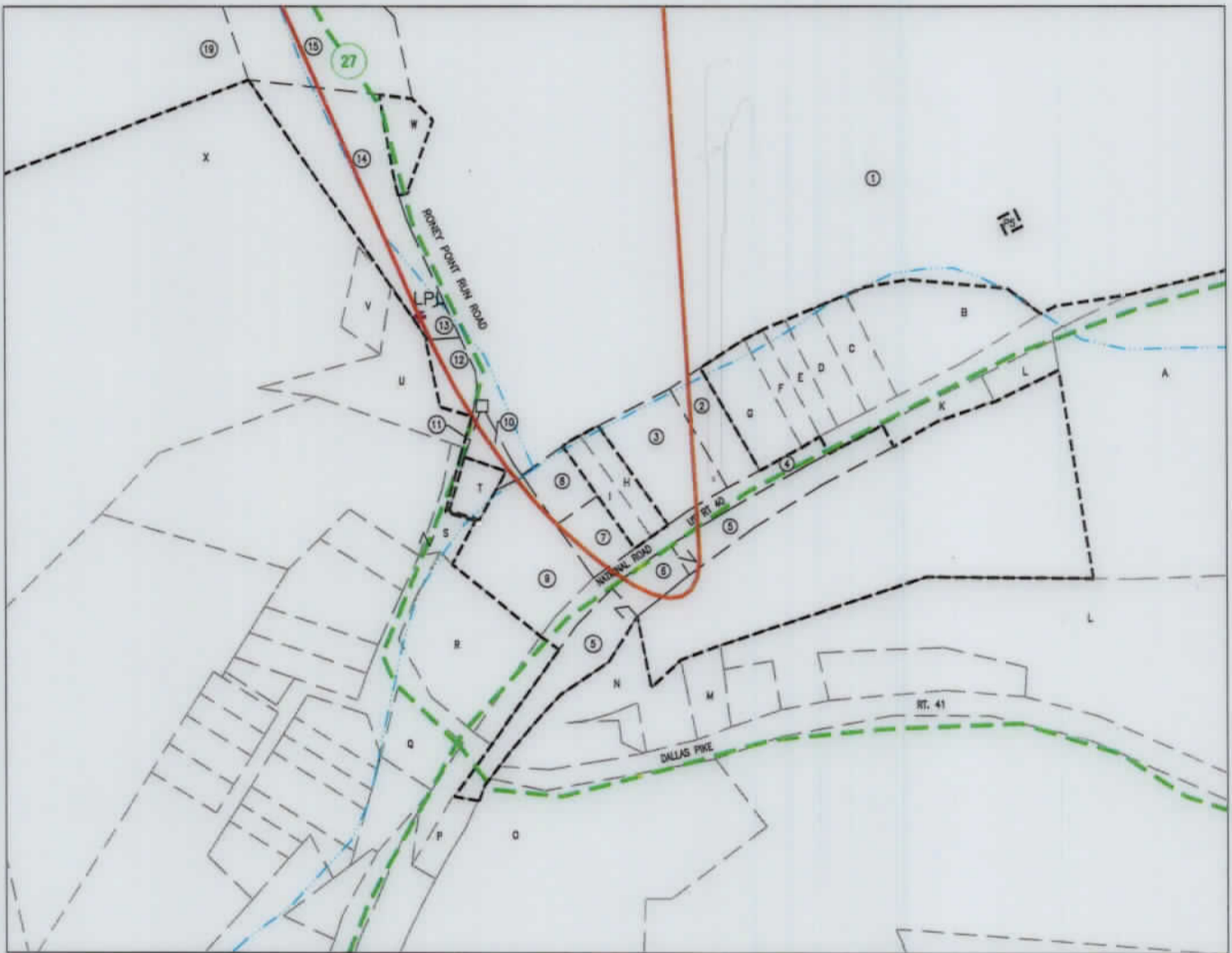
REVISIONS:	COMPANY:		
	OPERATOR'S	OCC A OHI	
	WELL #:	1H	
	DISTRICT:	COUNTY:	STATE:
	TRIADELPHIA	OHIO	WV
			DATE: 08-04-2022
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 2

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

DETAIL "B"



DETAIL "A"



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



08/26/2022

REVISIONS:	COMPANY:		
	OPERATOR'S	OCC A OHI	DATE: 08-04-2022
	WELL #:	1H	DRAWN BY: N. MANO
	DISTRICT:	COUNTY:	SCALE: N/A
	TRIADELPHIA	OHIO	DRAWING NO:
		STATE:	WV
			WELL LOCATION PLAT 3

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

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	BOARD OF COMM OHIO CO (S/R)	3-L13-3
2	HAMMONS TAMMY M (S)	6-T3Q-20
3	MCDANIELS EDDIE L MCDANIELS TRACY L (S)	6-T3Q-19
4	WV DEPARTMENT OF TRANSPORTATION (S)	US RT 40
5	PHK LLC (S)	6-T8-54
6	DUFFY CHARLES E (S)	6-T3-36
7	SAYRE SHIRLEY ANN & RANEE DAWN SAYRE (S)	6-T3Q-17.1
8	MCKENNEN JOSEPH A III (S)	6-T3Q-17
9	VALLEY COIN MACHINE COMPANY LLC (S)	6-T3Q-16
10	BOARD OF COMM OHIO CO (S)	6-T3Q-13
11	WV DEPARTMENT OF TRANSPORTATION (S)	ROUTE 27
12	NELSON KENNETH L (S)	6-T3Q-10
13	HUNTER JOHN A & C M	6-T3Q-11.1
14	HUNTER JOHN A & C M (S)	6-T3Q-11
15	HANNING RANDY & BRENDA (S)	6-T3-5.2
16	HUGHES JAMES R & DARLA J (S)	6-T3-8
17	KETRON TRACY E & JOHN P (S)	6-T3-7
18	DERR ALFRED (S)	6-T3-6
19	MINCH TIMMY B & AMY LYNN (S)	6-T3-5
20	SHELLER CARL J (S)	3-L13-24
21	MINCH TIMMY B & AMY LYNN (S)	3-L13-2
22	MINCH DENNIS (S)	3-L13-2.4
23	BENNETT JEFFREY R (S)	3-L13-2.2
24	WALTON LISA (S)	3-L13-2.3
25	OGLEBAY FOUNDATION PROPS INC ANNA C MAXWELL REV TRUST (S)	3-L13-1
26	BOARD OF COMM OHIO CO (S)	3-L13-3.1
27	OHIO COUNTY COMMISSION (S)	3-L10-23.3
28	LUCHETTI ROBERT R SR - TODD (S)	3-L10-23
29	WHITE KRISTIAN E & NICOLE R (S)	3-L10-19.3
30	WHITE KRISTIAN E & NICOLE R (S)	3-L10-19.2
31	WHITE KRISTIAN E & NICOLE (S)	3-L10-19.1
32	MARRINER ROBYN LEE (S)	3-L10-51
33	GOMPERS EDWARD D AND LUNDA M (S)	4-R15-25.1
34	KOWCHECK DRAKE M & CAITLIN (S)	4-R15-25.6
35	REGAN CHRISTOPHER J & HILARY E (S)	4-R15-23.4
36	TEMPLETON JOHN J DR & LISA J CO-TRUSTEES (S)	4-R15-23.3
37	REGAN CHRISTOPHER J & HILARY E (S)	4-R15-23.1
38	SUPANIK DEREK & MONICA (S)	4-R15-23.5
39	DECARLO VINCENT G & KRISTEN A (S)	4-R12-45.3

08/26/2022



REVISIONS:	COMPANY:			 	
	OPERATOR'S	OCC A OHI	API #	DATE: 08-04-2022	
	WELL #:	1H	47-069-	DRAWN BY: N. MANO	
	DISTRICT:	COUNTY:	STATE:	SCALE: N/A	
	TRIADELPHIA	OHIO	WV	DRAWING NO:	
				WELL LOCATION PLAT 4	

JACKSON SURVEYING
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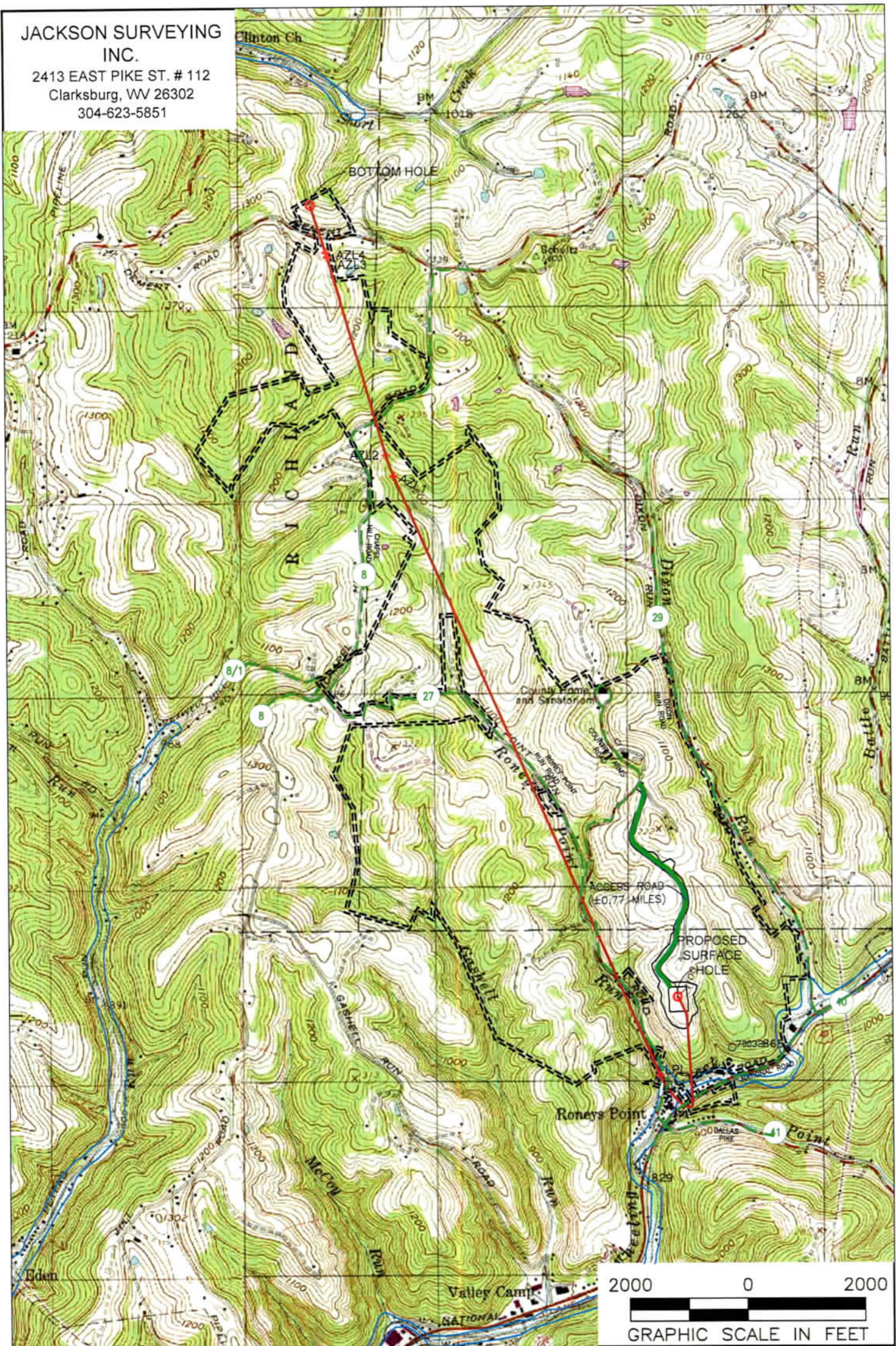
ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	SAFRED ROBERT JR	6-T3-33
B	SUPERIOR INDUSTRIAL LAUNDRIES INC	6-T3Q-26
C	STEPHAN PAULA C AND ORION E	6-T3Q-25
D	FISHER LOGAN J	6-T3Q-24
E	CLARK ROBERT B & EVELYN M	6-T3Q-23
F	SWAIN MARVIN H & K L	6-T3Q-22
G	PHK LLC	6-T3Q-21
H	P-3 EQUITIES LLC	6-T3Q-18.1
I	FLACK HOLLY M	6-T3Q-18
J	KLUG DARLENE A	6-T3-35
K	COOK JAMES WILLIAM & STOWERS AMANDA LORAIN	6-T3-34
L	UNITED PRESBYTERIAN CHURCH (TRUSTEES)	6-T8-9
M	MINCH HOWARD LJR & CHRISTINE	6-T8C-9
N	ROBINSON RICK W & C B	6-T8C-8
O	EMERY CHARLES E JR & JILL L	6-T8-17
P	LINDHEIMER KENNETH	6-T8-54.1
Q	KPOYAR JERRY L & CYNTHIA L	6-T8C-7
R	MARQUART GREGORY F & L A ; MARQUART PHILLIP J & K L	6-T3Q-15
S	FISCHER PAMELA	6-T3Q-6
T	FISCHER DONALD R JR	6-T3Q-7.2
U	MULLOOLY JAMES F	6-T3Q-7.1
V	BEHRENS WM D	6-T3Q-9
W	BEABOUT RUSSELL W	6-T3Q-8
X	HUNTER JOHN A & C M	6-T3Q-12
Y	BOARD OF COMMISSIONERS	6-T3-10
Z	SHORES BARBARA A	6-T3-9
A2	KETRON'S TRACY E & JOHN P	6-T8-7.1
B2	CROW RAYMOND E	6-T8-7
C2	SCOTT PAUL R & JOYCE A	6-T3-3
D2	HATCHER EDWARD A	3-L13-1.5
E2	MILLER FAMILY TRUST	4-R18-11
F2	GORDON NATHAN CHARLES	3-L13-2.1
G2	LUCHETTI ROBERT R JR & TERESA	4-R18-29
H2	OGLEBAY FOUNDATION PROPS INC MAXWELL ANNA C REV TRUST	3-L13-1.1
I2	MAXWELL JOSEPH E ANNA C MAXWELL REVOCABLE TRUST	3-L13-1.2
J2	WEIR ROBERT AND BRIDGET	3-L10-23.1
K2	LUCHETTI ROBERT R SR - TOD	4-R15-28
L2	LUCHETTI ROBERT R SR - TOD	4-R15-28.4
M2	MILLER CALVIN F & B J	4-L10-25.1
N2	MILLER WILSON B	4-L10-25
O2	MILLER CALVIN F & BARBARA J	3-L10-25.5
P2	MATTERN KENNETH MARK MATTERN DANA ANN	3-L10-25.4
Q2	CAREY WAYNE L	4-L10-25.3
R2	WOOD MATHEW J & MARIA M	3-L10-25.7
S2	A D BAKER HOMES INC	3-L10-19.4
T2	LUCHETTI ROBERT R JR & TERESA	3-L10-19.5
U2	WHITE KRISTIAN E & NICOLE R	3-L10-23.2
V2	A D BAKER HOMES INC	3-L10-19
W2	KOCH MARY C	4-L10-22
X2	KOCH MARY C	4-L10-21
Y2	HAMMERQUIST KAREN L	3-L10-52
Z2	PORTER MARK E & BARBARA V	4-R15-25.3
A3	PORTER MARK E & PORTER BARBARA V	4-R15-25.4
B3	PORTER SANDRA K - TOD	4-R15-25.5
C3	PORTER SANDRA K	4-R15-25
D3	NICHOLS R E 3/8 INT, B L SNAPP 3/8 INT & M C NICHOLS 1/4 INT	4-R15-16
E3	YOUNG TRAVIS & MICHELLE E	4-R15-19
F3	SIXTY FOUR LLC	4-R15-21
G3	WITSBERGER AMY LISBETH	4-R15-22
H3	TEMPLETON JOHN J DR & LISA J CO-TRUSTEES	4-R15-23.2
I3	FLANAGAN JILL E & JOSEPH V JR	4-R12-45.1
J3	FLANAGAN JILL E & JOSEPH V JR	4-R12-45.4
K3	TARR JOHN A IV	4-R12-45
L3	PHILLIPS TINA L & PADDEN ELIZABETH A	4-R12-45.8
M3	THROCKMORTON SARA R & DENT DAVID A	4-R12-45.16
N3	ROBINSON JACOB	3-L7-22
O3	BARBE BARRY A & CHRISTY	3-L7-22.6
P3	AMERICAN LEBANESE SYRIAN ASSOCIATED CHARITIES INC	3-L7-22.7

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
Q3	HIGH PHILIP D	3-L7-22.3
R3	STIFEL EDWARD W III	4-R15-24
S3	FINNERAN LAWRENCE P & KATHLEEN	3-L10-1.5
T3	BIPPUS CARLS	3-L10-1.7
U3	MACLAY LAURA S & RONALD E	3-L10-1.6
V3	BURKE STEPHEN R & RAINA J	3-L10-15
W3	JOSEPH BRIAN E	3-L10-13.3
X3	STINGLE KEVIN W & NICOLE A	3-L10-13.2
Y3	IRWIN WM F & M J	3-L10-13.1
Z3	KOLISCAP JENNA M JAFRATE CHRISTOPHER A	3-L10-17.8
A4	HARRIS RICHARD D & PATRICIA	3-L10-17.2
B4	VAN DUSEN JOHN M II & VAN DUSEN AMANDA RAE	3-L10-17.1
C4	DERROW STEPHEN J	3-L10-17.4
D4	HERCULES EUGENE & CARMELINDA S	3-L10-18
E4	HUFFNER EARL P	3-L10-17.12
F4	KNUTH JACK C JR & ALICE M	3-L10-17.11
G4	KNUTH JACK C JR & ALICE M	3-L10-17.10
H4	MACNEALY JON A & MACNEALY KAREN L	3-L10-17.14
I4	MACNEALY JON A & MACNEALY KAREN L	3-L10-17.13
J4	PALMER LOUIS III	3-L10-17.16
K4	WALTERS GLEN L & R S	3-L10-28
L4	LOUSTAU JEAN P & LP (RESV IF) BYRUM CAROLINE L	3-L10-27
M4	ABRAHAM THOMAS R & S O	3-L10-26
N4	BARTOLOVICH DEBORAH A	3-L10-26.2
O4	BELLANCO CHRISTOPHER	3-L10-26.6
P4	WEICHMAN RANDY J	3-L10-26.1
Q4	BLOWERS DAVID A & FLORENCE D	3-L10-36.6
R4	MILLER LANCE H JR & SHAENAN G	3-L10-36
S4	HOUCHINS RONALD W	3-L10-36.5
T4	HOUCHINS RONALD W	3-L13-4.3
U4	STEELE RICHARD CLARK JR PLUS KARIH ALEXAN DRA MILENA	3-L13-4
V4	YOUNG ROBERT L; VANDERGRIFT JOANN L/E	3-L13-4.2
W4	YOUNG ROBERT L; VANDERGRIFT JOANN L/E	3-L13-4.1
X4	STEVENSON BARBARA A (1/6 INT & LE) ET AL	3-L13-5
Y4	STEVENSON JAMES ALAN	3-L13-5.4
Z4	STEVENSON KIMBERLY; STEVENSON JAMES; DELGADO BRENDA STEVENSON	3-L13-6.1
A5	LOVERIDGE TYSON L & VANESSA	3-L13-6
B5	LOVERIDGE TYSON L & VANESSA	3-L13-6.4
C5	WHEELER JAMES E III WHEELER CHRISTINE	3-L13-8.2
D5	WHEELER JAMES E JR & B J	3-L13-9
E5	WHEELER JOLLY W SR & SARAH JANE (LE); ET AL	3-L13-12.3
F5	SHEARER STEVEN P	3-L13-12.1
G5	KNIGHT JAMES C & D L	3-L13-13
H5	DEMERSKI GARY L & MARY C	3-L13-14
I5	BARON KEITH E & C J	3-L13-15
J5	HOLMAN HARRY E & CHERYLL	6-T3-11
K5	HOLMAN CHERYL L & H E	6-T3-13
L5	MOORE GERALD T & A M	6-T3-14
M5	MOORE GERALD T & A M	6-T3-14.1
N5	OHIO COUNTY COMMISSION	6-T3-28
O5	JDS INVESTMENTS LLC	6-T3-16
P5	VILLAGE OF VALLEY GROVE	6-T3Q-27

08/26/2022

REVISIONS:	COMPANY:	 		
	OPERATOR'S	OCC A OHI	API #	DATE: 08-04-2022
	WELL #:	1H	47-069-	DRAWN BY: N. MANO
	DISTRICT:	COUNTY:	STATE:	SCALE: N/A
	TRIADELPHIA	OHIO	WV	DRAWING NO:
				WELL LOCATION PLAT 5

**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

08/26/2022

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: OCC A OHI	WELL # 1H	SERIAL #
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200, MORGANTOWN, WV 26508	COUNTY - CODE OHIO - 069	DISTRICT; TRIADELPHIA	
SURFACE OWNER: BOARD OF COMMISSIONERS OHIO COUNTY	USGS 7 1/2 QUADRANGLE MAP NAME VALLEY GROVE, WV		

4706900340

WW-6A1
(5/13)

Operator's Well No. OCC-A OHI 1H ST1

**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
----------------------	-----------------------	-----------------------	---------	-----------

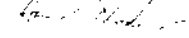
See Exhibit A

**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 Co., LLC 

By: Gavin Nadeau, RPL

Its: Landman

RECEIVED
Office of Oil and Gas
Page 1 of _____
AUG 08 2022
08/25/2022
WV Department of Environmental Protection

4706900340

EXHIBIT "A"					
OCC-A OHI IH STI					
Ohio County, West Virginia					
Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WV-6A1, by SWN Production Company, L.L.C., Operator					
#	TRIP	LESSEE	ROYALTY	BL/PD	% INTEREST NOT LEASED BY SWN PRODUCTION COMPANY, LLC
1)	04-0L13-0003-0000	The Board of Commissioners of Ohio County a/k/a The County Commission of Ohio County	18.00%	804/711	0.00%
2)	06-0T3Q-0020-0000	Robert B. Clark	18.00%	885/272	0.00%
3)	06-0T3Q-0019-0000	Eddie McDaniels and Tracy L. McDaniels, husband and wife	18.00%	807/242	0.00%
4)	US RT 40	West Virginia Department of Transportation, Division of Highways	18.00%	883/291	0.00%
5)	06-0T3Q-0054-0000	Heleen J. Miller, widow	15.00%	830/11	0.00%
6)	06-0T3Q-0016-0000	Charles E. Druffy, single	18.00%	883/620	0.00%
7)	06-0T3Q-0017-0001	Howard K. Sayre, single	18.00%	808/49	0.00%
8)	06-0T3Q-0017-0000	Barbara Ann McKernan, widow	14.00%	883/603	0.00%
9)	06-0T3Q-0016-0000	Valley Coin Machine Company, LLC, by Patrick Webb, owner	18.00%	920/179	0.00%
10)	06-0T3Q-0013-0000	The Board of Commissioners of the County of Ohio a/k/a Ohio County Commission, by Randy Wharton, President	18.00%	811/456	0.00%
11)	ROUTE 27	West Virginia Department of Transportation, Division of Highways	18.00%	883/180	0.00%
12)	06-0T3Q-0010-0000	Kenneth L. Nelson, single	18.00%	823/514	0.00%
13)	06-0T3Q-0011-0001	John A. Hunter and Cindy M. Hunter, husband and wife	18.00%	885/140	0.00%
14)	06-0T3Q-0011-0000	John A. Hunter and Cindy M. Hunter, husband and wife	18.00%	811/121	0.00%
15)	06-00T3-0005-0002	Caroline J. Plans, a/k/a Caroline J. Symons, married, dealing in her sole and separate property	18.00%	883/168	0.00%
16)	06-00T3-0006-0000	James Raymond Hughes and Daris J. Hughes, husband and wife	18.00%	1901/776	0.00%
17)	06-00T3-0007-0000	John P. Ketron and Tracy E. Ketron, husband and wife	18.00%	931/819	0.00%
18)	06-00T3-0006-0000	Dorena Derr, single	18.00%	886/166	0.00%
19)	06-00T3-0005-0000	Anthony L. Assano, Jr. and Lena Marie Assano, husband and wife	18.00%	883/279	0.00%
		Steven L. Cook and Linda G. Cook, husband and wife	18.00%	807/196	0.00%
		Daniel A. Minch and Gina Minch, husband and wife	18.00%	806/117	0.00%
		Dennis P. Minch, single	18.00%	883/267	0.00%
		Howard L. Minch, Jr. and Christine Minch, husband and wife	18.00%	808/123	0.00%
		Randall A. Minch, single	18.00%	883/279	0.00%
		Timmy B. Minch and Amy Lynn Minch, husband and wife	18.00%	810/587	0.00%
		Jerry Vargo and Marianne Vargo, husband and wife	18.00%	883/144	0.00%
20)	03-0L13-0024-0000	Carl J. Seider	18.00%	844/483	0.00%
21)	03-0L13-0002-0000	Howard L. Minch and Beverly G. Minch, husband and wife	12.50%	885/404	0.00%
		Great Lakes Energy Partners, L.L.C.	18.00%	887/760	0.00%
		Chesapeake Appalachia, L.L.C.	18.00%	937/435	0.00%
		SWN Production Company, LLC	18.00%	937/518	0.00%
		SWN Production Company, LLC	18.00%	937/414	0.00%
		SWN Production Company, LLC	18.00%	937/421	0.00%
		SWN Production Company, LLC	18.00%	937/511	0.00%
		SWN Production Company, LLC	18.00%	937/428	0.00%
		SWN Production Company, LLC	18.00%	937/391	0.00%
		SWN Production Company, LLC	18.00%	937/525	0.00%
		SWN Production Company, LLC	18.00%	938/511	0.00%
		Chesapeake Appalachia, L.L.C.	18.00%	776/26	0.00%
		SWN Production Company, LLC	18.00%	804/418	0.00%
		SWN Production Company, LLC	18.00%	883/515	0.00%

08/26/2022

22)	03-0L13-0002-0004	Anthony L. Assaro, Jr. and Lena Marie Assaro, husband and wife Steven L. Cook and Linda G. Cook, husband and wife Dennis A. Minch and Gina Minch, husband and wife Dennis P. Minch, single Howard L. Minch, Jr. and Christine Minch, husband and wife Russell A. Minch, single Timothy B. Minch and Amy Lynn Minch, husband and wife Jerry Vargo and Marianne Vargo, husband and wife	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	937435 937518 937414 937421 937511 937428 937391 937525	18.00% 18.00% 18.00% 18.00% 18.00% 18.00% 18.00%	0.00%
23)	03-0L13-0002-0002	Jeffery R. Bennett, single	SWN Production Company, LLC	928134	18.00%	0.00%
24)	03-0L13-0002-0003	Lisa Wallon	Chesapeake Appalachia, L.L.C.	833734	18.00%	0.00%
25)	03-0L10-0001-0000	Oglethorpe Foundation, Inc. The Anna C. Maxwell Revocable Trust, Dated 6/4/1997, by Joseph E. Maxwell, Trustee	SWN Production Company, LLC SWN Production Company, LLC	885692 963315 965521	18.00% 18.00%	0.00%
26)	03-0L13-0003-0001	The Board of Commissioners of Ohio County #1/2 The County Commission of Ohio County	Chesapeake Appalachia, L.L.C.	804711	18.00%	0.00%
27)	03-0L10-0023-0003	The Board of Commissioners of Ohio County #1/2 The County Commission of Ohio County	SWN Production Company, LLC	1001776	18.00%	0.00%
28)	03-0L10-0023-0000	Robert R. Luchetti, Sr. #1/2 Robert R. Luchetti, a widower Robert R. Luchetti and Adelaise T. Luchetti, husband and wife	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	1012307 79337	18.00% 12.510%	0.00%
29)	03-0L10-0019-0003	Louis John Lasch, #1/2 Louis J. Lasch, widower	SWN Production Company, LLC	885748	18.00%	0.00%
30)	03-0L10-0019-0002	Louis John Lasch, #1/2 Louis J. Lasch, widower	SWN Production Company, LLC	885776	18.00%	0.00%
31)	03-0L10-0019-0001	Louis John Lasch, #1/2 Louis J. Lasch, widower	Chesapeake Appalachia, L.L.C.	8138 885776	18.00%	0.00%
32)	03-0L10-0051-0000	Robert Lee Manner, single	SWN Production Company, LLC	929103	15.00%	0.00%
33)	04-0R15-0025-0001	Edward D. Gompers and Linda M. Gompers, husband and wife	SWN Production Company, LLC Fossil Creek Ohio, LLC Guilford Energy Corporation American Petroleum Partners Operating, LLC SWN Production Company, LLC	871752 893392 909775 946605	18.00% 18.00% 18.00% 18.00%	0.00%
34)	04-0R15-0025-0006	Edward D. Gompers and Linda M. Gompers, husband and wife	Fossil Creek Ohio, LLC Guilford Energy Corporation American Petroleum Partners Operating, LLC SWN Production Company, LLC	871752 893392 909775 946605	18.00% 18.00% 18.00%	0.00%
35)	04-0R15-0023-0004	Sixty Four, LLC	SWN Production Company, LLC	936534	18.00%	0.00%
36)	04-0R15-0023-0003	The Lisa J. Templeton Trust, including any amendments hereto, dated July 27, 1994	SWN Production Company, LLC	931633	17.00%	0.00%
37)	04-0R15-0023-0001	Sixty Four, LLC	SWN Production Company, LLC	936534	18.00%	0.00%
38)	04-0R15-0023-0005	Sixty Four, LLC	SWN Production Company, LLC	936534	18.00%	0.00%
39)	04-0R12-0045-0003	Philip D. High, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	805489 883355	18.00%	0.00%

END OF EXHIBIT "A"

August 4, 2022

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

RE: SWN's proposed New Well: OCC-A OHI 1H ST1 in Ohio County, West Virginia, Drilling under Chapel Hill Road, Roney Point Run Road, National Road, and Dallas Pike.

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 Chapel Hill Road, Roney Point Run Road, National Road, and Dallas Pike. 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.

Respectfully,

SWN Production Company, LLC



Gavin Nadeau, RPL
Landman

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

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

08/26/2022



Kees, Kelly L <kelly.l.kees@wv.gov>

H6A Horizontal Well Work Permit Modification 47-069-00340

1 message

Kees, Kelly L <kelly.l.kees@wv.gov>

Mon, Aug 22, 2022 at 2:04 PM

To: Brittany Woody <brittany_woody@swn.com>

Cc: Charles T Brewer <charles.t.brewer@wv.gov>, "Newlon, Douglas C" <douglas.c.newlon@wv.gov>, Strader C Gower <strader.c.gower@wv.gov>, Wade A Stansberry <wade.a.stansberry@wv.gov>, thoffman@wvassessor.com

I have attached a copy of modification to the issued well permit number. This will serve as your copy.

47-069-00340 OCC-A OHI 1H

If you have any questions, then please contact us here at the Office of Oil and Gas.

--

Kelly L. Kees, P.E.
Office of Oil and Gas
WVDEP
601 57th St SE,
Charleston, WV 25304
(304)926-0440



47-069-00340 mod.pdf

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08/26/2022