

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

Tuesday, August 9, 2022 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

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

Re: Permit Modification Approval for ROTH OHI 10H

47-069-00339-00-00

Converting/Extending Lateral from Vertical Well Bore

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.

Operator's Well Number: ROTH OHI 10H

Farm Name: ROTH FARMS, LLC

U.S. WELL NUMBER: 47-069-00339-00-00

Horizontal 6A New Drill Date Modification Issued: 08/09/2022

Promoting a healthy environment.

WW-6B (04/15) API NO. 47-009

OPERATOR WELL NO. Roth OHI 10H

Well Pad Name: Roth OHI

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

1) Well Operator: SWN Produc	tion Co., LLC	494512924	069-Ohio	005-Rich 641-Tiltonsville
1) Well Operator: SVVN Produc		Operator ID	County	District Quadrangle
2) Operator's Well Number: Roth	OHI 10H		Pad Name: Rot	
3) Farm Name/Surface Owner: R	Roth Farms, LI	_C Public R	oad Access: C	learview Avenue
4) Elevation, current ground: 1	004.0 I	Elevation, propos		
5) Well Type (a) Gas X	Oil _	U	nderground Sto	rage
Other				
(b)If Gas Shall		Deep	-	
	zontal X			
6) Existing Pad: Yes or No No	A the black area. Z h.			Draggura(s):
7) Proposed Target Formation(s), Target Formation- Marcellus, Down Dip Well	Depth(s), Ant to the South, Target	icipated Thickne Top TVD- 5743', Target I	Ss and Expected Base TVD- 5799', Antic	ipated Thickness- 56', Associated Pressure- 3769
8) Proposed Total Vertical Depth	: 5788'			
9) Formation at Total Vertical De		us		
10) Proposed Total Measured De	epth: 21460'			
11) Proposed Horizontal Leg Ler	12000	37		
12) Approximate Fresh Water St		452'		
13) Method to Determine Fresh		Nearby well 47	7-069-00012	
14) Approximate Saltwater Dept	hs: 1119' rep	orted in nearby	wells	
15) Approximate Coal Seam Dep	pths: 170'			
16) Approximate Depth to Possi	ble Void (coal	mine, karst, othe	r): None that v	we are aware of.
17) Does Proposed well location directly overlying or adjacent to	contain coal s	eams		No
(a) If Yes, provide Mine Info:	Name: Va	illey Camp NO 1	1. 1	
**************************************	Depth: 17	0 & 811'		
	Seam: Pit	tsburgh		
	Owner: Va	alley Camp Coal		

Tour Gowet

WW-6B (04/15) API NO. 47- 009 OPERATOR WELL NO. Roth OHI 10H
Well Pad Name: Roth OHI

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#	505'	505'	527 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1606'	1606'	589 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	21460'	21460'	Tail 3800sx/ 100' Inside Intermediate
Tubing							1
Liners							

ТҮРЕ	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:		



WW-6B (10/14)

API NO. 47- 009 -	
OPERATOR WEL	L NO. Roth OHI 10H
Well Pad Name	Roth OHI

19) Describe proposed well work, including the drilling and plugging back of any pilot he	19)	Describe proposed	well work.	including th	e drilling and	plugging	back of any pilot ho	le:
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ulate 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): 24.35
- 22) Area to be disturbed for well pad only, less access road (acres): 10.46
- 23) Describe centralizer placement for each casing string:

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

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

See Attachment ***

25) Proposed borehole conditioning procedures:

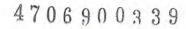
All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

*Note: Attach additional sheets as needed.

God Girant South

Proposed Drilling Program Southwestern Energy Company **ROTH OHI 10** Re-entry Rig: **SDC 40** Well: Marcellus Shale Field: PANHANDLE FIELD WET Prospect: WV State: OHIO County: 40.1511 Latitude -80.6870 Longitude SHL: 40.1132 Latitude -80.6634 Longitude BHL: 1.004 ft MSL 1,130 ft MSL KB: 126 ft AGL GL Elev: **KB Elev:** NO COAL VOID EXPECTED 110 'to 525 ' Air/Mist PROD TOC Lead @ 1,910' MD PROD TOC Tail @ 6,293' MD 525 to 1,626 Air/Mist **TUBULAR DETAIL** Weight Grade Planned Interval Casing Size Casing String (Min) (in) (Min) From To 0' 110 1,626 to 5,272 Conductor 20 94.0# J-55 Air/Mist Surface/Coal 13.375 54.4# J-55 0 505 Intermediate J-55 0 1,606 9.625 36,0# Production 0' 21,460 5.5 20,0# P-110 HP CEMENT DETAIL Sacks Class Density Conductor 140 19.3 A Surface 527 A 15.6 Intermediate 15.6 589 A Production 14.5-15.0 3800 TD at 5,272 ' Freshwater Depth - 452 'TVD KOP at 5,272 'MD 5,272 to 6,469 Coal Void Depth - 170 'TVD 12.0-12.5 ppg Saltwater Depth - 1,119 'TVD TVD - 5,788 1 TMD - 21,460 ' TD at 21,460 ' MD 5,668 ' Target Center 5,788 ' TVD EOB at 6,469 ' MD Onondaga 5,799 'TVD 6.469 to 21.460 SHL Onondaga 5,679 'TVD 12.5-13.5 ppg Created by: Dicky Hall on 07/27/2022

Steadof 138 32





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

July 18, 2022

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

RE: Proposed New Well: Roth OHI 10H

Dear Mr. Brewer

SWN has reviewed the area of the above mentioned well and discovered no shallow wells within 500' of the lateral. This well is situated on the Roth's property, in Tiltonsville District, Ohio County, West Virginia.

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

Thank you.

Sincerely,

Brittany Woody

Buttary Woody

Senior Regulatory Analyst

Southwestern Energy Production Company, LLC

R-W+





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

www.swn.com

July 20, 2022

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

RE: SWN's proposed New Well: Roth OHI 10H in Ohio County, West Virginia, Drilling under Reilly Delaplain Road, Cherry Hill Road, State Rt 3/1, Shawnee Road, Hallpen Drive, and Cabin Road.

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 Reilly Delaplain Road, Cherry Hill Road, State Rt 3/1, Shawnee Road, Hallpen Drive, and Cabin Road. Be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Respectfully,

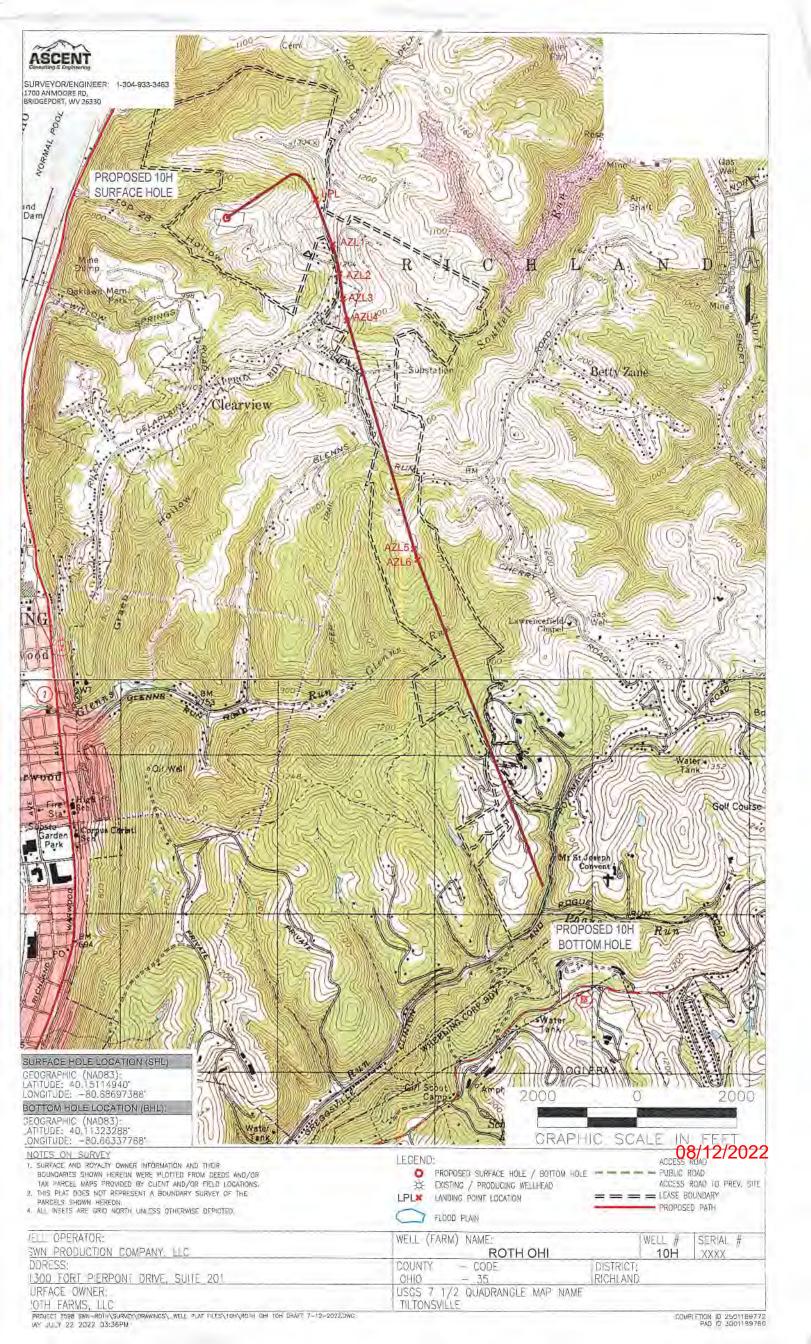
SWN Production Company, LLC

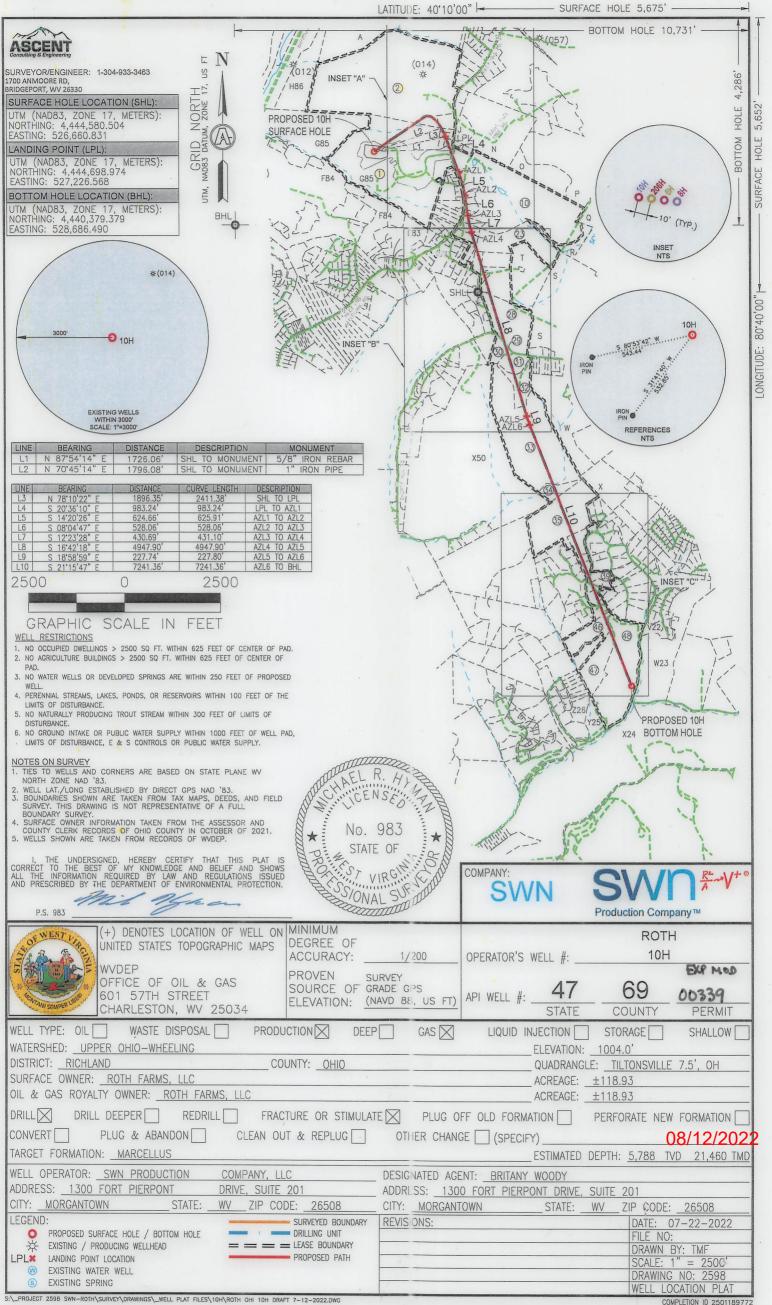
Gavin Nadeau, RPL

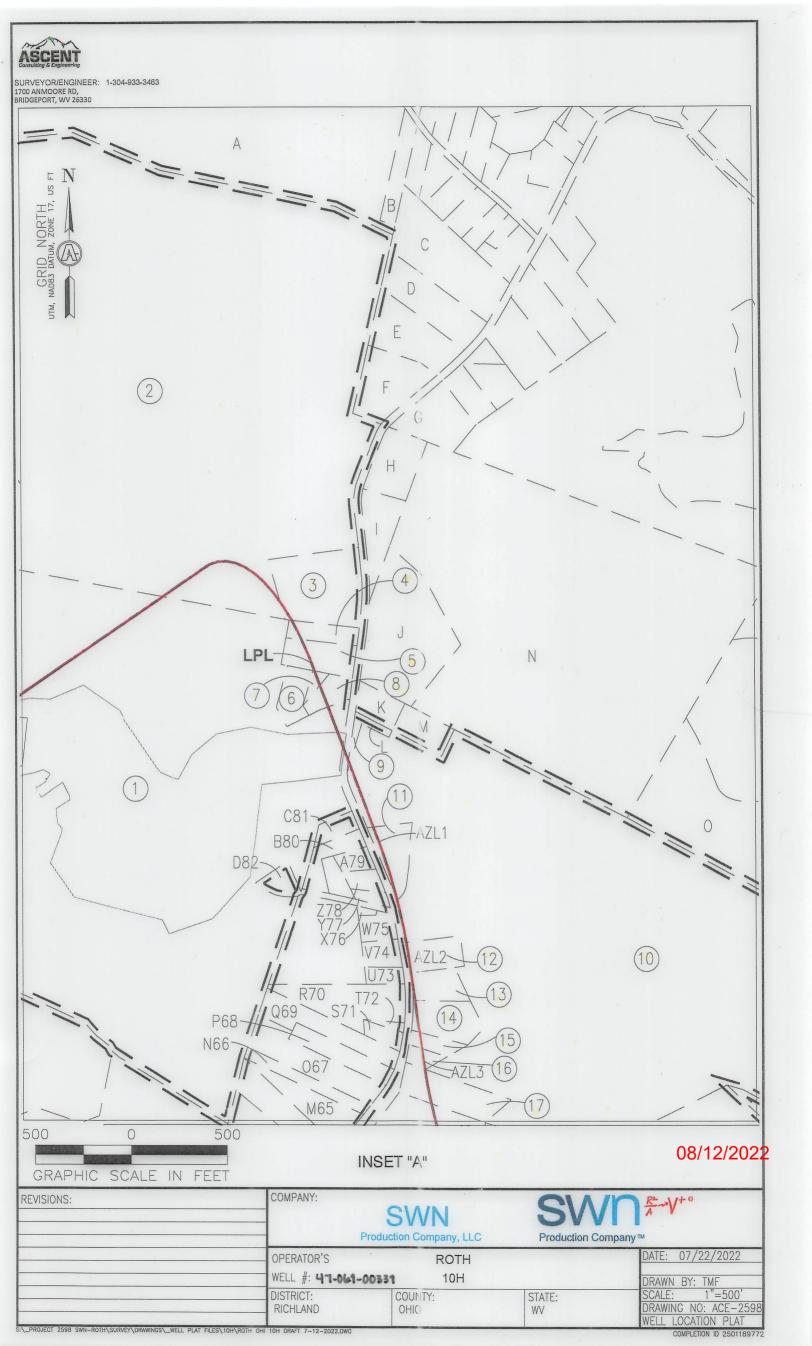
Landman

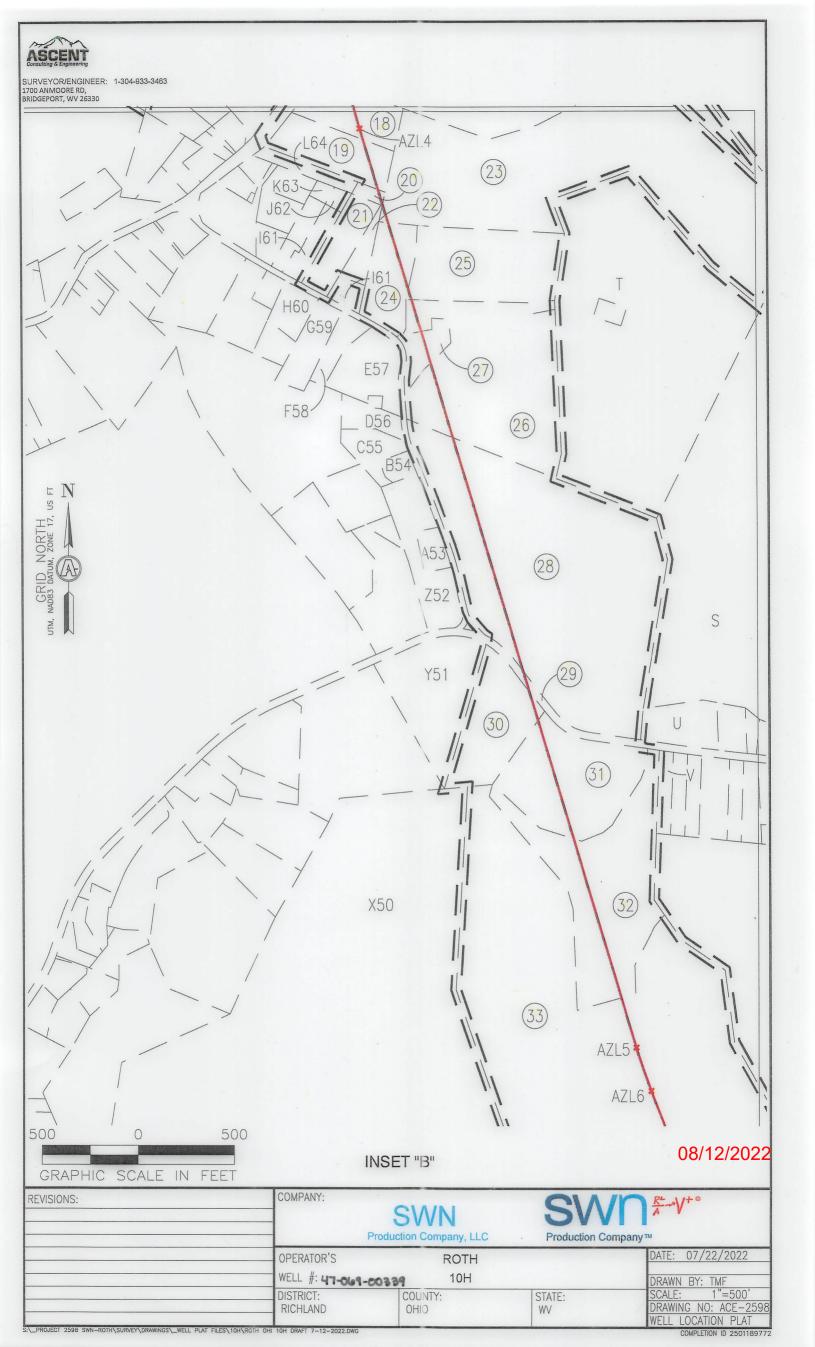
R2 AV+

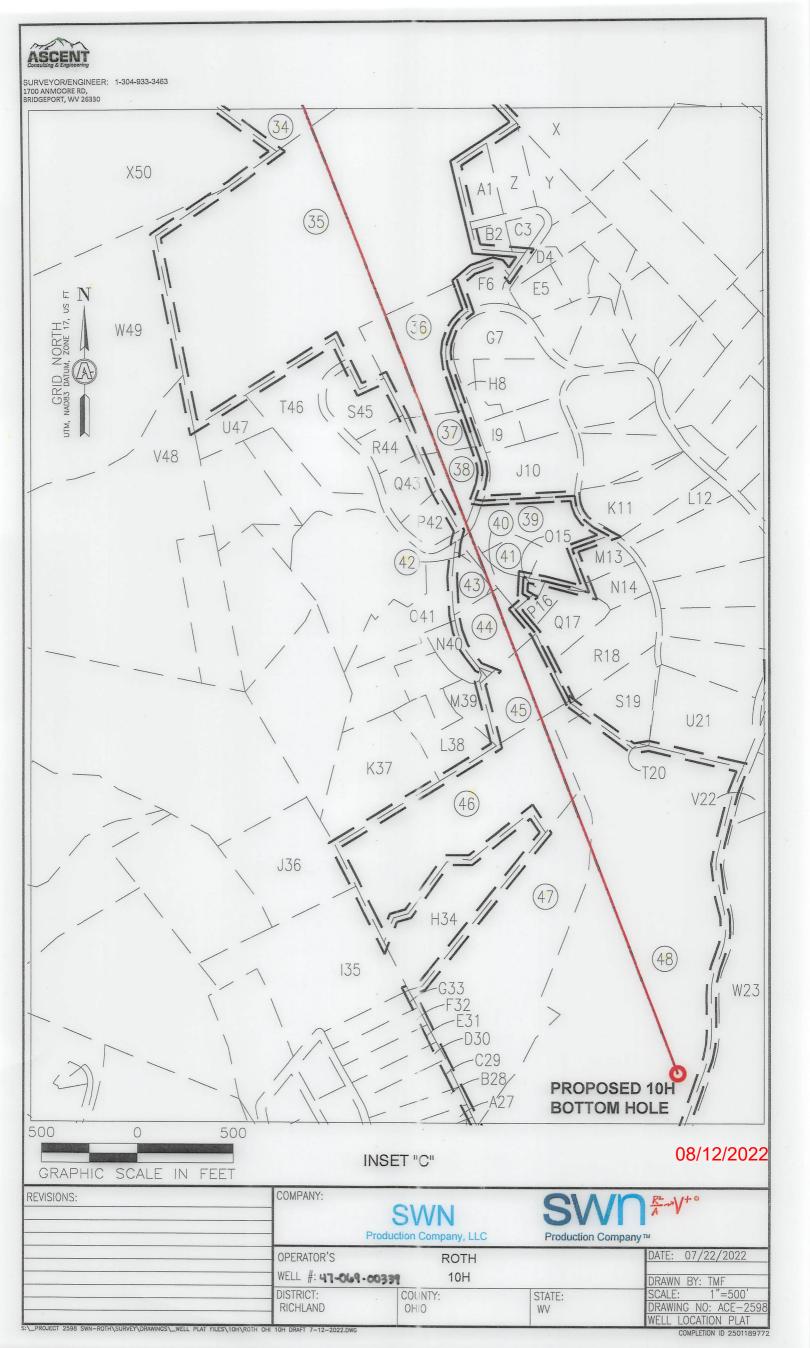
The Right People doing the Right Things, wisely Investing the cash flow force our underlying Assets Wolfale 2016













SURVEYOR/ENGINEER: 1-304-933-3463 1700 ANMOORE RD, BRIDGEPORT, WV 26330

	WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S)/ROYALTY OWNER (R)	TAX PARCEL	
1	ROTH FARMS, LLC (S)/ROTH FARMS, LLC (R)	4-R7-24	
TRACT	SURFACE OWNER (S)	TAX PARCEL	
2	MCCLURE WM H & MARG A	4-R4-07	
3	MCCLURE WM H & MARGARET A	4-R7-26.1	
4	LEFKAY SCOTT A & TRACY L	4-R8-2.3	
5	FELDNER CHARLENE M - TOD	4-R8-2.1	
6	CALDWELL SHANE J & CALDWELL SUZANNE M	4-R7-24.1	,
7	CALDWELL SUZANNE & SHANE	4-R7-24.2	
8	OLEJASZ JR JOSEPH R OLEJASZ J R SR & G (RT-OCC)	4-R8-2.2	,
9	MCKEE JAMES F JR & EILEEN B	4-R8-77	1
10	TUNNEL RIDGE LLC	4-R8-4.18	
11	BAKER STEVEN P (LE); STEVEN P BAKER ET AL	4-R8-4	-
12	BROWN CHAD & YEKATERINA	4-R8-4.17	-
13	BROWN CHAD & YEKATERNIA	4-R8-4.19	-
14	KINNEÉR VERNON A JR & CARLA C	2-CV1-7	-
15	KINNEER VERNON A JR & CARLA C	2-CV1-8	
16	BAKER VINCENT L	2-CV1-9	-
17	BAKER VINCENT L	2-CV1-6	-
18	TRACY JOHN A & MARY ANN E	2-CV4-21	-
19	TRACYJOHN A & M A	2-CV4-21	-
20	STANLEY GEORGE DAVID STANLEY SUSAN M	2-CV4-8.1	-
21	STANLEY GEORGE D & SUSAN M		_
22	STANLEY GEORGE DAVID AND SUSAN	2-CV4-14.1	-
23		2-CV4-14.2	_
24	CRAFT JOSEPH WIII FOUNDATION	4-R8-63.2	
25	TUNNEL RIDGE LLC	2-CV4-15.2	_
26	TUNNEL RIDGE LLC	4-R8-63	_
27	TUNNEL RIDGE LLC	2-CV4-15	_
-	KING CHARLES R JR & B M	2-CV4-15.1	_
28	TUNNELL RIDGE LLC	4-R8-67	
29	STATE OF WEST VIRGINIA, DEPARTMENT OF TRANSPORTATION	CHERRY HILL RO	A.
30	MEREDITH DONALD R II AND J K	4-R8-69.3	-
31	MEREDITH RICHARD TAND S F	4-R8-69	_
32	FROME STEPHEN D & REBECCA T-LE FROME S & R IRREVOCABLE TRUST	4-R8-69.2	_
33	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R8-52	_
34	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R11-11	_
35	PENN HOLDING LIMITED LIABILITY COMPANY	4-R11-6.3	_
36	NEIS THOMAS	4-R11-6.2	
37	BROWN GEOFFREY C & ELIZABETH W	4-R11K-4.1	
38	BROWN GEOFFREY C & ELIZABETH W	4-R11K-4	
39	HOBBS ROLAND L	4-R11K-10	
40	GEORGES NANCY A	4-R11K-10.3	
41	MEAD ARMINA S	4-R11K-10.2	
42	GEORGES NANCY A	4-R11K-38.1	
43	WARD JEREMY D & KAUFMAN AMANDA J	4-R11K-38	
44	GEORGES NANCY A	4-R11-6.6	
45	YURKO JENNIFER G & KARL E	4-R11P-4	
46	BLISS CHARLIE A SR BLISS MARY ELLEN	4-R14-90.2	
47	JONES WILBUR'S JR AND JEFFERSON JOYCE P	4-R14-90.1	
48	JONES WILBUR S JR JEFFERSON JOYCE P	4-R14-90	

08/12/2022

REVISIONS:	COMPANY:	SWN Production Company, LLC	SW Production Cor	npany™
	OPERATOR'S WELL #: 41-06	ROTH 10H		DATE: 07/22/2022 DRAWN BY: TMF
	DISTRICT: RICHLAND	COUNTY: OHIO	STATE: WV	SCALE: N/A DRAWING NO: ACE-25 WELL LOCATION PLAT
S:_PROJECT 2598 SWN-ROTH\SURVEY\DRAWINGS_	WELL PLAT FILES\10H\ROTH OHI 10H DRAFT 7-12-2022.DW	G		COMPLETION ID 2501189772



SURVEYOR/ENGINEER: 1-304-933-3463 1700 ANMOORE RD, BRIDGEPORT, WV 26330

	ADJOINING OWNERS TABLE	
RACT	SURFACE OWNER (S)	TAX PARCEL
A	HEART 2 HEART VOLUNTEERS INC	4-R4-05
В	BOYD ROBERT JEFFREY & CHERYL L	4-R5-24
С	OLEJASZ JOSEPH R J R	4-R5-34
D	OLEJASZ JOSEPH R J R	4-R5-35
E	KUCERA CARL J & SHARON L	4-R5-35.2
F	PAVELICH-SWIGER SHERRI J PAVELICH JEFFREY M	4-R5-35.1
G	WEIGAND PAUL & REBECCA FAMILY TRUST	4-R5-40.1
Н	SCHELL RICHARD A & N	4-R8-1.1
ı	HABERFIELD WAYNE K & D A	4-R8-1
J	SCHUETZ EBBIE JOSEPH & JOY	4-R8-3
K	MCKEE JAMES F JR & EILEEN B	4-R8-4.14
L	MCKEE JAMES & EILEEN	4-R8-4.15
М	MCKEE JAMES & EILEEN	4-R8-4.16
N	TUNNEL RIDGE LLC	4-R8-3.2
0	TUNNEL RIDGE LLC	4-R5-4.7
Р	CRAFT JOSEPH W III FOUNDATION	4-R8-3.1
Q	CRAFT JOSEPH W III FOUNDATION	4-R8-5
R	CRAFT JOSEPH W III FOUNDATION	4-R8-4.13
S	CRAFT JOSEPH W III FOUNDATION	4-R8-51
Т	TUNNEL RIDGE LLC	4-R8-79
U	SMITH W EVERETT & JOLINDA STEINER	4-R8N-14
V	KOEGLER BRUCE M & A L	4-R8N-1
w	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R8-53
Х	JONES ROBERT E MD INC	4-R11-16.3
Y	CUCHTA B WILLIAM III & REBECCA	4-R11-6.9
Z	CUNNINGHAM H SCOTT & SALLY A	4-R11-6.10
A1	BLOSSER SCOTT A AND LAURA R	4-R11-6.12
B2	REISINGER JAMES J & BARBARA J	4-R11-6.11
СЗ	WURTZBACHER JOHN J & ROXANNE B	4-R11-6.8
D4	SERENITY RD PERSONAL RESIDENCE TRUST-GEARY RICHARD C JR TTEE	4-R11-6.13
E5	GULLO GAYE R	4-R11K-24.3
F6	FAMILY TRUST OF JOHN R & AGNES T ARSLAIN (TRUSTEES)	4-R11K-34
G7	DEARTH JOHN EDW & P C	4-R11K-6
	BRUHN JAMES B AND KAREN A	4-R11K-7
H8	KHOUREY LOUIS H & C A	4-R11K-8
19		
J10	HOBBS ROLAND L	4-R11K-9
K11	SPENCER THOMAS W & CATHERINE K	4-R11K-19 4-R11K-19.1
L12	SPENCER THOMAS W & CATHERINE K	
M13	BUSH STEVEN & LAURA	4-R11K-14
N14	BELANCIC ERIC J	4-R11K-15
015	MAXWELL WILLIAM E CARO VERA ANN	4-R11K-10.4
P16	MCCAMIC JEREMY C & LT	4-R11K-10.1
Q17	MCCAMIC JEREMY C & LT	4-R11K-11
R18	BORDAS LINDA M	4-R11K-12
519	BORDAS LINDA M	4-R11P-1
T20	BORDAS LINDA M	4-R11P-1.1
U21	FITZSIMMONS ROBERT J	4-R11P-3
V22	CARPENTER DAVID & KATHERINE R	4-R11-21.9
W23	SISTERS OF ST JOSEPH OF WHEELING INC	4-R11-21
X24	CITY OF WHEELING	4-R14-15
Y25	HARROLD PAMELA SUE C/O GC&P ANIMAL HOSPITAL INC	4-R14-6
Z26	BAUER ROY D & GISELE M	4-R14-5

RACT	SURFACE OWNER (S)	TAX PARCEL
A27	BAUER ROY D & GISELE	4-R14-4.4
B28	BAUER ROY D & GISELE	4-R14-4
C29	FUTEY JR PAUL B AND DEBRA L	4-R14-4.3
030	SLIVCHENKO VADIM & OLENA	4-R14-2.1
E31	SLIVCHENKO VADIM & OLENA	4-R14-2
F32	HAND SCOTT A & CORRIEJ	4-R14-3.1
333	HAND SCOTT A & CORRIEJ	4-R14-3
134	JONES WILBUR S JR JEFFERSON JOYCE P	4-R14-90.3
135	HAND SCOTT A & CORRIEJ	4-R11-2
136	MANNING JACOB A & ADRIANNE L	4-R11-2.8
(37	SHATS DANIEL & LISA	4-R11P-5.4
L38	SHATS DANIEL & LISA	4-R11P-5.5
/39	SIMMONS KIMBERLY A	4-R11P-5.2
140	GEBHARDT YURKO JENNIFER TODD	4-R11P-5.8
041	BLOCH S STEPHENSON	4-R11P-5.7
42	WETZEL ROBERT & LAURA L	4-R11K-3
Q43	BISCHOF DEBORAH L & LEE	4-R11K-2
344	TURAK JONATHAN E & R	4-R11K-1.1
545	TURAK JONATHAN E & ROSELYN	4-R11K-1
T46	KURTZ PENN L & J S	4-R11-6.1
J47	KURTZ PENN L & JEAN S	4-R11-6.14
/48	GOLDEN CHRISTOPHER SCOTT BRANDACE LYNN	4-R11-2.13
V49	GOLDEN CHRISTOPHER SCOTT GOLDEN BRANDACE LYNN	4-R11-2.4
(50	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R10-31
/51	MEREDITH DONALD R II AND JULIE	4-R8-69.1
252	DUYMICH JENNIFER L& DAVID	4-R8-66
153	KARNELL WILLIAM H & JENNIFER	4-R8-66.1
354	AUTEN GERALD R JR & GRACE A	4-R8-65
255	JOHN JOSEPH J & KAREN M	4-R8-65.2
056	RCK 2 GROUP LLC ATTN KAYLEEN FITZSIMMONS	4-R8-64
E57	KIMPEL TODD E & JOYCE E	2-CV4-16
F58	KNUTH MARK A & J M	2-CV4-16.1
359	WELLS CAROLE C	2-CV4-17.1
H60	CZAHOROSKI MELISSA DANIELLE	2-CV4-17.3
161	MCKENZIE SEAN Z & KRISTI L	2-CV4-14
162	GUZZI COREY A & BRITTANY N	2-CV4-13.1
K63	TUNNEL RIDGE LLC	2-CV4-12.1
1.64	TUNNEL RIDGE LLC	2-CV4-8
V165	QUINN JOHN THOMAS	2-CV4-7
N66	SHEARER PHILLIP G & CINDY M	2-CV1-1
067	ROGERSON BENTON LSR & KS	2-CV1-2
P68	DANEHART CHARLES D & JO ANN	2-CV1-3
Q69	TOMAC ROBERT C JR	2-CV1-4
R70	CLEGG R E & J L	2-CV1-5
S71	CLEGG GARY T & M V	2-CV1-5.1
T72	CLEGG GARY T & MARY W	2-CV1-5.2
U73	BROWN HARCE M & JENNIFER J	4-R8-4.1
V74	FEDORKE M PATRICIA	4-R8-4.2
W75	FACEMIRE JAMES G	4-R8-4.3
X76	CLARK JOHN M & B C	4-R8-4.11
Y77	MACKEY JOHN E & DIANNA L	4-R8-4.4
Z78	SMILA FRANK W JR & KELLY L	4-R8-4.12
A79	GRASKI DONNA M; GRASKI MICHAEL & GRASKI TIFFANY L	4-R8-4.6
	HELDEFFER GEORGE W	4-R8-4.7
B80	KUCERA LISA A	4-R8-4.8
C81	CALDWELL SHANE AND SUZANNE	4-R8-78
D82	FEDORKE AARON P & TIMOTHY J	2-CV4-3
E83	CITY OF WHEELING	4-R7-18
F84	EDGE ALICE MAE - TOD	4-R7-23
G85	EDGE ALICE WAE - TOD	T 117 Z3

08/12/2022

REVISIONS: COMPANY:	1 14 0
SVN Production Company, LLC Production Company™	~V ⁺ °
OPERATOR'S ROTH DATE	E: 07/22/2022
WELL #: 47-061-00339 10H	AWN BY: TMF
	ALE: N/A AWING NO: ACE-2598 LL LOCATION PLAT

WW-6A	l
(5/13)	

Operator's	Well No.	ROTH	OHI	10H

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
	Se	e 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	Grand No. Language
By:		Gavin Nadeau, RPL
Its:		Landman .

Page 1 of

		Ol Attached to and made a part of the State of West Virginia C	EXHIBIT "A" Roth OHI 10H ilo Counly, West Virginia Oil and Gas Permit Fonn, WW-6AL, by SWN Production	Company, LLC., One	rator	
#	TMP	LESSOR	LESSEE	ROYALTY	BE/PG	% INTEREST NOT LEASED BY S PRODUCTION COMPANY, LL
1/630	nucle A. Roth and Mara	The Trust Agreement of Joseph Roth, dated November 05, 2004 amet A. Gongola. Trustees of the Joseph Roth Trust under Agreement dated the 5th day subsequent to SWN Production Company, LLC obtaining the Oil and Gas Leaw dated 16	SWN Production Company, LLC of November, 2004 conveyed the property to The Rolls I V2/2017 and recorded at 931/199. Therefore, SWN Prod	18,00% Parm, LLC via Quitel faction Company, LD	931/199 laim Dead recorded of C has the authority i	st* 0,00%.
2)	04-00R4-0007-0000	William H. McClure and Margaret A. McClure, husband and wife	Fossil Creek Ohio, U.C. Gulfport Energy Corporation American Petroleum Partners Operating, U.C.	18.00%	873/361 893/379 909/775 946/405	0.00%
3)	04-00R7-0026-0001	William H. McClure and Margaret A. McClure, husband and wife	SWN Production Company, LLC Fossil Creek Ohio, LLC Gulfport Energy Corporation American Petroleum Partners Operating, LLC	18,00%	873/361 893/379 909/775	0,00%
AV	64 00TH 0007 0002	Scott A. Lefkay and Trucy L. Lefkay, husband and wife	SWN Production Company, LLC SWN Production Company, LLC	15.00%	946/405	0.00%
5)		Charlene M. Feldner, single	American Petroleum Partners Operating, LLC	18.00%	942/596	0.00%
_		- Control Cont	SWN Production Company, LLC		980/572	
6)	04-60R7-0024-0001	Shane J. Caldwell and Suzamie M. Caldwell, husband and wife Shane J. Caldwell and Suzamie M. Caldwell, husband and wife	SWN Production Company, LLC SWN Production Company, LLC	18.00%	958/332 958/332	0,00%
8)		Joseph R. Olejusz, Jr. and Karen R. Olejasz, husband and wife	TH Exploration, LLC	18.00%	893/716	0,0074
т.	01.00200 0002.0002		American Petroleum Partners Operating, LLC		958/126 980/572	0.00%
9)	04-00R8-0077-0000	James F. McKee, Jr. and Eileen B. McKee, husband and wife	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	18.00%	840/609	0.00%
11			SWN Production Company, LLC		885/13	
10)	04-00R8-0004-0018		SWN Production Company, LLC	16,00% 18,00%	928/552 939/277	0.00%
12)		Betty Baker, widow Chad Brown and Yeksterins Brown, husband and wife	SWN Production Company, LLC SWN Production Company, LLC	17.00%	963/384	0.00%
13)	04-00R8-0004-0019		SWN Production Company, LLC	16.00%	928/552	0.00%
14)		Vernon A. Kinneer, Jr. and Carla C. Kinneer, husband and wife	SWN Production Company, LLC	17.00%	1007/443	0.00%
15)	02-0CV1-0008-0000		SWN Production Company, LLC SWN Production Company, LLC	16.00%	928/552 928/552	0.00%
16)	02-0CV1-0009-0000	Paul Baker Vincent L. Baker, a single man	SWN Production Company, LLC SWN Production Company, LLC	15.00%	996/325	0,00%
18)		John A. Tracy and Mary Am E. Tracy, a/k/a Mary Am Tracey, husband and wife	TH Exploration, LLC American Petroleum Partners Operating, LLC	18.00%	893/487 958/126	0.00%
19)	02-0CV4-0021-0003	John A. Tracy and Mary Ann E. Tracy, a/k/a Mary Ann Tracey, husband and wife	SWN Production Company, LLC TH Exploration, LLC American Petroleum Partners Operating, LLC	18.00%	973/167 893/487 958/126	0,00%
20)	02-0CV4-0008-0001	George David Stanley and Susan M. Stanley, husband and wife	SWN Production Company, LLC American Petroleum Partners Operating, LLC	18.00%	973/167 942/620	0.00%
21)	02-0CV4-0014-0001	George David Stanley and Susan M. Stanley, husband and wife	SWN Production Company, LLC American Petroleum Partners Operating, LLC	18.00%	980/572 942/620	9,00%
22)		George David Stanley and Susan M. Stanley, husband and wife	SWN Production Company, LLC American Petroleum Partners Operating, LLC	18.00%	980/572 942/620	
7			SWN Production Company, LLC		980/572	0.00%
23)	04-00R8-0063-0002	Alliance Resource GP, LLC	SWN Production Company, LLC	17,00%	916/98	0.00%
24)	02-0CV4-0015-0002	Tunnel Ridge, LLC	SWN Production Company, LLC SWN Production Company, LLC	17.00%	916/91	0.00% 0.00%
26)	02-0CV4-0015-0000	Tumel Ridge, LLC	SWN Production Company, LLC	17.00%	916/91	0.00%
27)	02-0CV4-0015-0001	Charles R. King, Jr. and Brends McKinney King, his wife	SWN Production Company, LLC	18,00%	1017/68	0,00%
28)	04-00R8-0067-0000		SWN Production Company, LLC	17.00%	916/91	0.00%
29) 30)	CHERRY HLL RD	West Virginia Department of Transportation, Division of Highways Donald R. Meredith, II and Julie K. Meredith, husband and wife	SWN Production Company, LLC American Petroleum Partners Operating, LLC	20.00%	940/647	0.00%
	C. J. M.C. de C. D.		SWN Production Company, LLC	1	993/705	0.00%
31)	acceptance and their	Richard T. Meredith and Stephanie F. Meredith, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00%	938/632 980/572	0.00%
32)		Resource Minerals Headwater II, LP	SWN Production Company, LLC	18.00%	942/474	0.00%
33)	04-00R8-0052-0000	Jessica B. Hogan, a single woman W. Neil Hogan, III, a single man	SWN Production Company, LLC SWN Production Company, LLC	18.00%	932/362 934/287	0.00%
		Mary Ann Hess Realty, LLC	SWN Production Company, LLC	18.00%	934/279	******
340	04-0R11-0011-0000	Jessica B. Hogan, a single weman	SWN Production Company, LLC	18.00%	932/362	1
		W. Neil Hogan, III, a single man Mury Ann Hess Realty, LLC	SWN Production Company, LLC SWN Production Company, LLC	18.00%	934/287	0.00%
35)		Penn Holding Limited Liability Company	SWN Production Company, LLC SWN Production Company, LLC	18.00%	915/15	0.00%
36)	04-0R11-0006-0002	Thomas Neis, married	SWN Production Company, LLC	18.00%	1009/8	0,00%
37)	04-R11K-0004-0001	Thaddeus P. Obecny, a single man Mary Kay Obecny, a single weman	SWN Production Company, LLC	17.00%	1006/661	0.00%
38)	04-R11K-0004-0000	Mary Kay Coerny, a single weman Thaddeus P. Oberny, a single man	SWN Production Company, LLC SWN Production Company, LLC	17.00%	1006/724	
		Mary Kay Obecny, a single woman	SWN Production Company, LLC	17.00%	1006/724	0.00%
39)		Roland L. Hobbs, widower by Altomey-in-Fact Ronald L. Hobbs, N. Nancy A. Georges, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	1006/776	0.00%
4()) 41.)	04-R11K-0010-0003 04-R11K-0010-0002	Armina S. Mead, a married woman dealing in her sole and separate property	SWN Production Company, LLC SWN Production Company, LLC	18.00%	1002/471	0.00%
42)	04-R11K-0038-0001	Nancy A. Georges, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	1002/471	0.00%
43)	04-R11K-0038-0000	Nancy A. Georges, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	1002/471	0.00%
10		Nancy A. Georges, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	1002/471	0.00%
45) 46)		Jennifer Gebhardt-Yurko and Karl E. Yurko, husband and wife Edward C. Armbrecht, Jr. and Caivert Jones Armbrecht, husband and wife	SWN Production Company, LLC	18.00%	1006/689 924/42	0.00%
and.	23-0151-20020-1002	Richard Q. Palmer and Marguerite Sands Jones Palmer, Justiand and wife	SWN Production Company, LLC SWN Production Company, LLC	16.00%	924/50	n max
		James Sumner Jones and Penelope Townsend Jones, Inisband and wife	SWN Production Company, LLC	16.00%	924/58	0.00%
171	Of API's name cont	Wilbur S, Jones, Jr. and Joyce P. Jefferson, hisband and wife	SWN Production Company, LLC	16.00%	924/34	
47) 48)	04-0R14-0090-0001 04-0R14-0090-0000	Wilbur S. Jones, Jr. and Joyce P. Jefferson, husband and wife Edward C. Armbrecht, Jr. and Calvert Jones Armbrecht, husband and wife	SWN Production Company, LLC SWN Production Company, LLC	16,00%	924/42	0,00%
-		Richard Q. Palmer and Marguerite Sands Jones Palmer, husband and wife	SWN Production Company, LLC	16,00%	924/50	or south
		James Summer Jones and Penelope Townsend Jones, husband and wife	SWN Production Company, LLC	16,00%	924/58	0.00%
		Wilbur S. Jones, Jr. and Joyce P. Jefferson, husband and wife	SWN Production Company, LLC	16,00%	924/34	



4 7 0 6 9 0 0 3 3 9 SWN Production Company, LLC

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

August 4, 2022

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

RECEIVED
Office of Oil and Gas

AUG 0 5 2022

WV Department of Environmental Protection

RE: Proposed **Expedited Modification**:

Roth OHI 10H

Dear Mr. Brewer:

Enclosed please find the required documents to modify this well. We would like to modify this well from a vertical to a horizontal. This well is situated on the Roth's property, in Richland District, Ohio County, West Virginia.

Enclosed you will find:

-6B

-WBD

-Mylar

-6A1

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

Thank you.

Sincerely,

Buttary Woody

Brittany Woody

Senior Regulatory Analyst

Southwestern Energy Production Company, LLC

Using \$500000 on Rile to expedite this modification

I would like to
expedite this mod. Please
use \$5000,00 of our
Credit you have on file
Thanks!
Your 8H>
\$20,000
\$120,000



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Expedited Modification Horizontal H6A Well Work Permits API: (47-069-00339)

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Tue, Aug 9, 2022 at 1:29 PM

To: Brittany Woody Brittany Woody Brittany Woody Brittany Woody <a href="mailto:Brittany Woody Brittany Woody <a href Gower <strader.c.gower@wv.gov>

I have attached a copy of the newly issued well permit numbers:

47-069-00339 - ROTH OHI 10H

These will serve as your copy.

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

