



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Monday, July 1, 2019
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit Modification Approval for CHARLES FRYE OHI 405H
47-069-00231-00-00

Lateral Extension. Casing program for possible void.

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.

James A. Martin
Chief

Operator's Well Number: CHARLES FRYE OHI 405H
Farm Name: FRYE, DOROTHY V.
U.S. WELL NUMBER: 47-069-00231-00-00
Horizontal 6A New Drill
Date Modification Issued: July 1, 2019

Promoting a healthy environment.

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

1) Well Operator: SWN Production Co., LLC

<u>494512924</u>	<u>069-Ohio</u>	<u>6- Triade</u>	<u>648-Valley Grove</u>
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Operator ID County District Quadrangle

2) Operator's Well Number: Charles Frye OHI 405H Well Pad Name: Charles Frye OHI Pad

3) Farm Name/Surface Owner: Dorothy Frye, Amy Frye, & Carrie Frye Public Road Access: McCutcheon Road

4) Elevation, current ground: 1267' Elevation, proposed post-construction: 1267'

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

(b) If Gas Shallow _____ Deep _____
Horizontal _____

6) Existing Pad: Yes or No Yes

Handwritten signature and date: 2-13-19

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- 6520', Target Base TVD- 6557', Anticipated Thickness- 37, Associated Pressure- 4262

8) Proposed Total Vertical Depth: 6541'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 17468'

11) Proposed Horizontal Leg Length: 10,006.38'

12) Approximate Fresh Water Strata Depths: 548'

13) Method to Determine Fresh Water Depths: nearby water wells & salinity profile

14) Approximate Saltwater Depths: 774' Salinity Profile

15) Approximate Coal Seam Depths: 633'

16) Approximate Depth to Possible Void (coal mine, karst, other): Possible Void 633'

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: Valley Camp Coal Mine
Depth: 602'
Seam: Pittsburgh
Owner: Valley Camp Coal

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FEB 19 2019
WV Department of
Environmental Protection

WW-6B
(04/15)

API NO. 47- 069 - _____
 OPERATOR WELL NO. Charles Frye OHI 405H
 Well Pad Name: Charles Frye OHI Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	730'	730'	679 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	2077'	2077'	784 sx/CTS
Production	5 1/2"	New	HCP-110	20#	17468'	17468'	lead 672sx Tail 2753sx inside intermediate
Tubing							
Liners							

Handwritten signature and date: 2-13-19

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	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal							
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/50% Excess
Tubing							
Liners							

PACKERS

Kind:				RECEIVED Office of Oil and Gas
Sizes:				FEB 19 2019
Depths Set:				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. The well is produced through surface facilities consisting of high pressure production unites, vertical separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 13.6

22) Area to be disturbed for well pad only, less access road (acres): 12.0

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.

2013
Department of
Environmental Protection

*Note: Attach additional sheets as needed.

Southwestern Energy Company

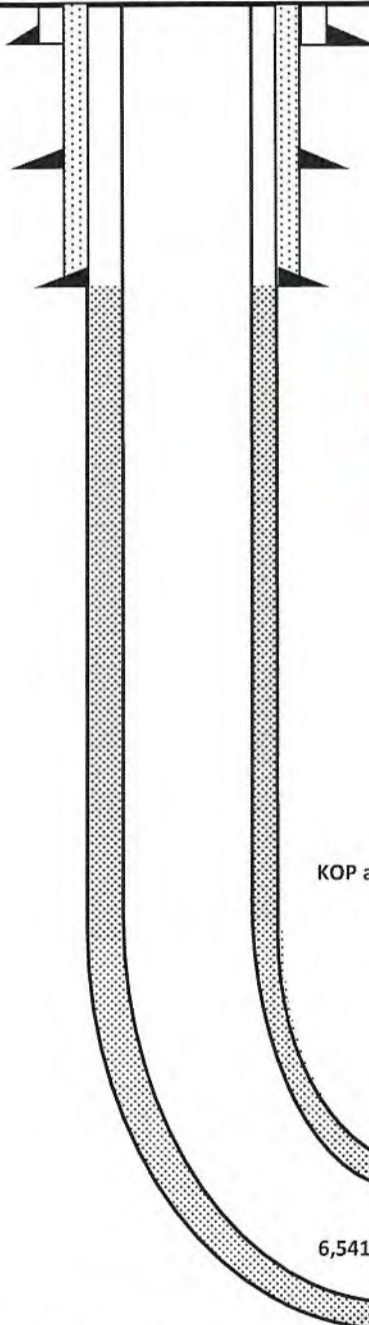
Proposed Drilling Program

Well: CHARLES FRYE OHI 405
 Field: PANHANDLE FIELD WET
 County: OHIO
 SHL: 40.0530 Latitude -80.5770 Longitude
 BHL: 40.0816 Latitude -80.5866 Longitude
 KB Elev: 1,293 ft MSL KB: 26 ft AGL

Re-entry Rig: TBD
 Prospect: PANHANDLE
 State: WV



GL Elev: 1,267 ft MSL



Coal Void at 633 ' MD

PROD TOC Lead @ 2,097 ' MD

PROD TOC Tail @ 5,100 ' MD

TUBULAR DETAIL

	Size (in)	Weight	Grade	From	To
Conductor:	20	94.0 #	H-40	0'	100'
Surface:	13.375	48.0 #	H-40	0'	730'
Intermediate:	9.625	36.0 #	J-55	0'	2,077'
Production:	5.5	20.0 #	HCP-110	0'	17,468'

CEMENT DETAIL

	Sacks	Class	Density
Conductor	151	A	19.3
Surface	679	A	15.6
Intermediate	784	A	15.6
Production Lead	672	A	15.6
Production Tail	2753	A	15.6

Freshwater Depth - 548 ' TVD

Coal Void Depth - 633 ' TVD

Saltwater Depth - 774 ' TVD

TVD - 6,541'

TMD - 17,468'

0' to 750'
Air / Mist

750' to 2,097'
Air / Mist

2,097' to 5,548'
Air / Mist

Air
TD at 5,548'

5,548' to 7,457'
12.0 - 12.5 ppg

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7,457' to 17,468'
12.0 - 12.5 ppg

Latitude: 40°05'00"

SURFACE HOLE 9,885'

Latitude: 40°05'00" BOTTOM HOLE 907'

JACKSON SURVEYING INC.

P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851

SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,433,728.584
EASTING: 536,079.874

LANDING POINT LOCATION (LPL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,434,209.840
EASTING: 536,696.306

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,436,893.975
EASTING: 535,247.991

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

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 56°37'55" W	1534.11'	SHL TO LANDMARK	CNR FENCE POST
L2	S 05°59'44" E	856.07'	SHL TO LANDMARK	LARGE STONE
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 52°01'13" E	2565.76'	2949.95	SHL TO LP

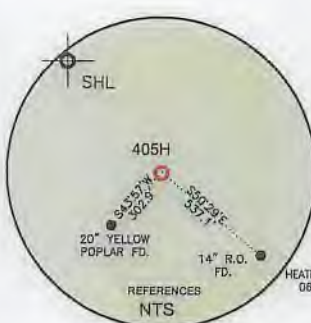
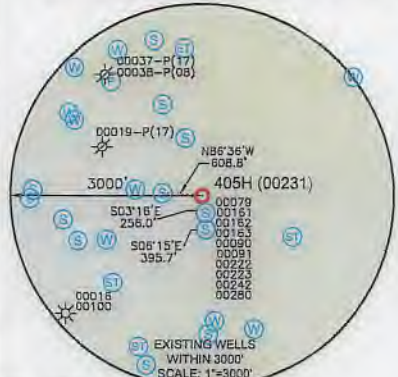
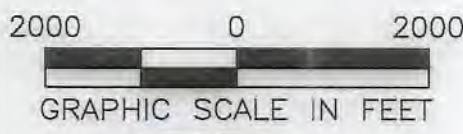
BHL

BOTTOM HOLE 638'

Longitude: 80°35'00"

SURFACE HOLE 11,040'

Longitude: 80°32'30"



WELL RESTRICTIONS

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

NOTES ON SURVEY

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

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 708 *David L Jackson*



COMPANY: **SWN** Production Company, LLC

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

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

MINIMUM DEGREE OF ACCURACY: 1/200

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

OPERATOR'S WELL #: CHARLES FRYE OHI 405H

API WELL #: 47 STATE 069 COUNTY 00231 PERMIT

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

WATERSHED: MARLOW RUN OF MIDDLE WHEELING CREEK OF WHEELING CREEK (HUC10) ELEVATION: 1266.8'

DISTRICT: TRIADELPHIA COUNTY: OHIO QUADRANGLE: VALLEY GROVE, WV

SURFACE OWNER: DOROTHY V. FRYE (LIFE ESTATE), AMY M. FRYE & CARRIE L. FRYE (REMAINDERMAN) ACREAGE: ±105.00

OIL & GAS ROYALTY OWNER: DOROTHY V. FRYE ACREAGE: ±105.00

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,541 TVD 17,468 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 PROPOSED PATH

EXISTING SPRING

REVISIONS: DATE: 02-04-2019

DRAWN BY: N. MANO

SCALE: 1" = 2000'

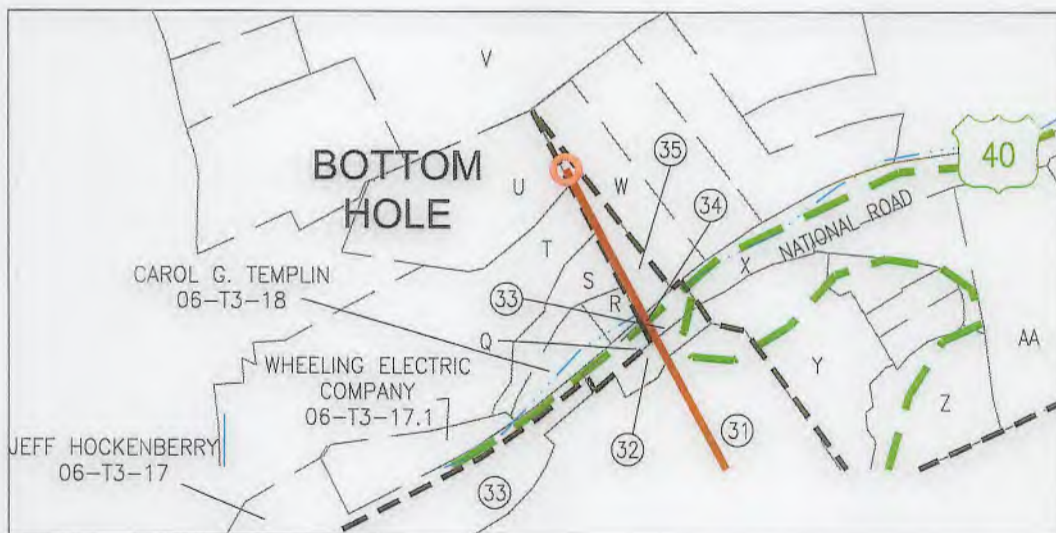
DRAWING NO:



WELL LOCATION PLAT 1

JACKSON SURVEYING

INC.

P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851





REVISIONS:	COMPANY:	 	
	OPERATOR'S	CHARLES FRYE OHI	API:
	WELL #:	405H	47-069-00231
	DISTRICT:	TRIADELPHIA	COUNTY:
		STATE:	WV
		DATE:	02-04-2019
		DRAWN BY:	N. MANO
		SCALE:	N/A
		DRAWING NO:	
		WELL LOCATION PLAT	2

**JACKSON SURVEYING
INC.**

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304-623-5851

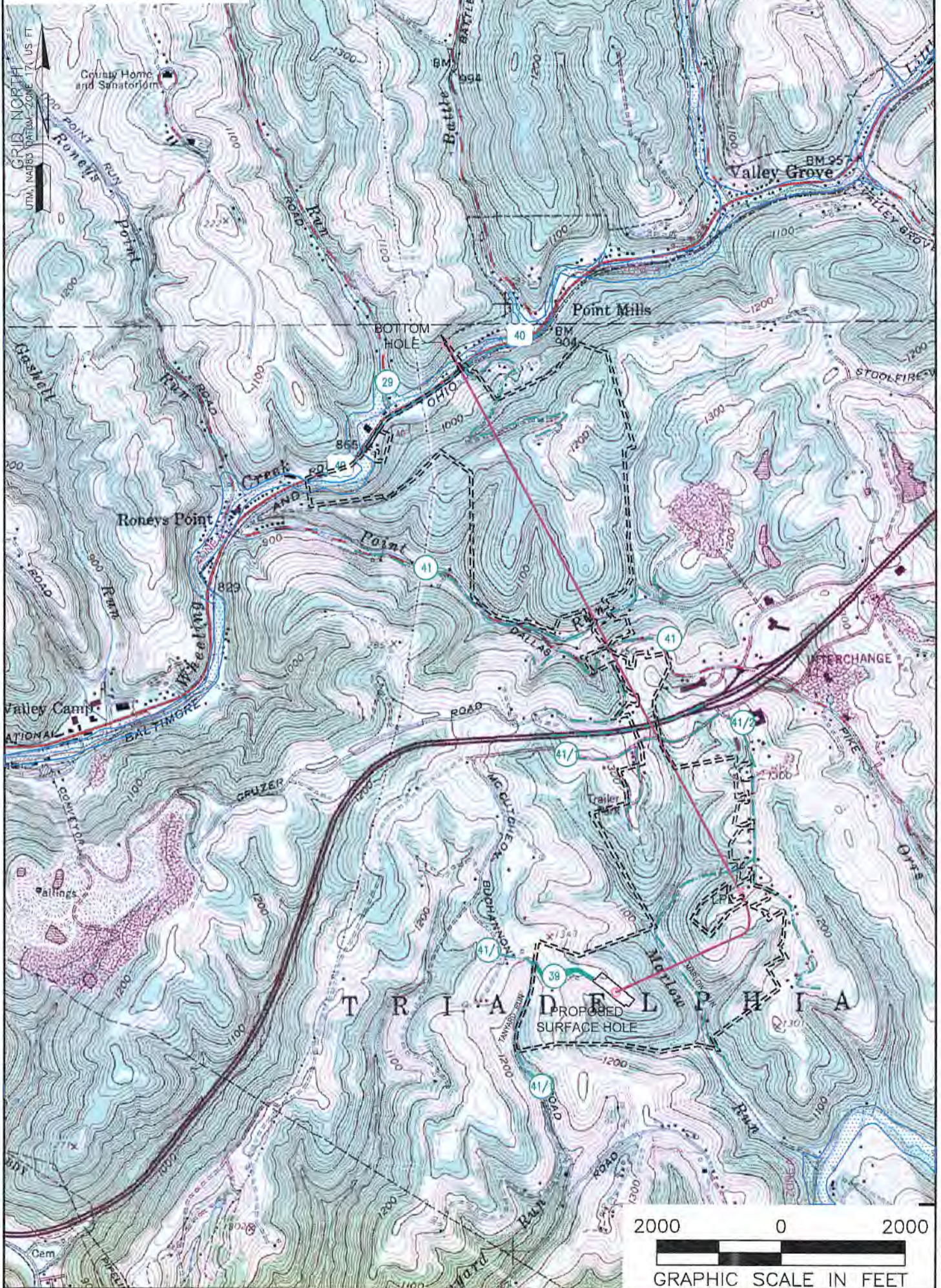
WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	DOROTHY V. FRYE (LIFE ESTATE), AMY M. FRYE & CORRIE L. FRYE (REMAINDERMEN) (S)/ DOROTHY V. FRYE (R)	06-T14-01
TRACT	SURFACE OWNER	TAX PARCEL
2	GEORGE L. DUNN AND NANCY M. DUNN (LIFE ESTATE) AND KATHERINE A. POSEY, CHRISTOPHER R. DUNN, RHONDA L. HAND & CONSTANCE L. KERCHER (REMAINDERMEN) (S)	06-T9-20
3	CHRISTOPHER R. DUNN & TANAKA H. DUNN (S)	06-T9-20.46
4	NANCY DUNN (S)	06-T9-20.2
5	SARAH ANN PORTER (S)	06-T9-20.41
6	NICOLE SEIFERT (S)	06-T9-20.51
7	WILLIAM C. SCHUETZ & SANDRA SCHUETZ (S)	06-T9-20.5
8	WILLIAM C. SCHUETZ & SANDRA SCHUETZ (S)	06-T9-20.6
9	JOSHUA R. BOYD & AMY M. BOYD (S)	06-T9-20.39
10	JOSHUA R. BOYD & AMY M. BOYD (S)	06-T9-20.18
11	DOROTHY MAE SAMPSON (S)	06-T9-17
12	CHEROKEE TRADING POST, INC. (S)	06-T9-17.6
13	CHEROKEE TRADING POST, INC. (S)	06-T9-17.7
14	DALLAS PIKE CAMPGROUND INC. (S)	06-T9-16
15	DALLAS PIKE CAMPGROUND INC. (S)	06-T9-15
16	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (S)	I-70
17	FREDERICK H. TUSTIN (S)	06-T9-15.1
18	WENDY JO ELDRIDGE & JOSEPH L. ELDRIDGE (S)	06-T9-15.7
19	LINDA M. ORR & ROBERT BRADY ORR (S)	06-T9-13.12
20	DOUGLAS BLANCO & AUDREY BLANCO (S)	06-T9-12
21	ROGER FADER (S)	06-T9-13.5
22	THOMAS D. STRICKLIN (S)	06-T9-13.6
23	ALICIA A. COAD & BRENT NIXON (S)	06-T9-08
24	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (S)	WV COUNTY RT 41 DALLAS PIKE
25	ALLEN L. GELLNER & DEBRA M. GELLNER (S)	06-T9-01
26	EARL THOMAS BEABOUT SR. & ANN ELIZABETH BEABOUT (S)	06-T9-1.2
27	RANDAL ALAN HOWARD (S)	06-T8-16
28	JOEL GEORGE MCFARLAND, BRIAN N. MILAN & DON EARL MCFARLAND (S)	06-T8-13
29	KEVIN S. KOSEM & BRENDA A. KOSEM (S)	06-T3-27
30	JOEL GEORGE MCFARLAND, BRIAN N. MILAN & DON EARL MCFARLAND (S)	06-T8-12
31	MELODY E. GARRISON (S)	06-T3-20
32	CAROL G. TEMPLIN (S)	06-T3-20.1
33	MELODY E. GARRISON (S)	06-T3-33
34	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (S)	NATIONAL ROAD
35	CAROL G. TEMPLIN (S)	08-VG10-01

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
A	DALLAS PIKE CAMPGROUND LLC	06-T9-16.4	MM	GOKUL INC. OF WV	06-T9-14
B	WARREN ALLEN GRIFFITH & SHARON MAE GRIFFITH	06-T9-15.3	NN	LINDA M. ORR & ROBERT BRADY	06-T9-13
C	MICHAEL J. JOHNSON	06-T9-15.6	OO	CHEROKEE TRADING POST, INC. (S)	06-T9-17.2
D	MICHAEL J. JOHNSON	06-T9-15.2	PP	DONALD T. PIKO	06-T9-28.2
E	EDWARD D. GARRISON	06-T9-11	QQ	BANK OF AMERICA, NA	06-T9-19
F	FREDERICK H. TUSTIN & CARLA J. TUSTIN	06-T9-15.4	RR	VAN A. SAMPSON & BRENDA M. SAMPSON	06-T9-17.8
G	MARGARET TUSTIN GREENWALD KLUG	06-T9-09	SS	DOROTHY M. SAMPSON	06-T9-17.5
H	JOHN E. STANTON & DIANE M. STANTON	06-T8-28	TT	DOROTHY M. SAMPSON	06-T9-18
I	LARRY J. DONATO	06-T8-23.1	UU	DAVID S. MURRAY	06-T9-17.4
J	KENNETH M. PARKER	06-T8-22	VV	FLOYD L. WENSEL	06-T9-17.3
K	MARY F. STONE	06-T8-15.1	WW	BRIAN D. DOLENCE & DONNA J. DOLENCE	06-T9-17.1
L	JOEL P. ORTH	06-T8-15	XX	JOSHUA R. BOYD & AMY M. BOYD	06-T9-20.22
M	DONNA LEE ROBERSON	06-T8-14	YY	JOSHUA R. BOYD & AMY M. BOYD	06-T9-20.52
N	RACHEL WIECHMAN, AMY MARTINI, JOHN WIECHMAN, ROBERT WIECHMAN, STEVEN WIECHMAN, RANDY WIECHMAN & GARY WIECHMAN	06-T8-11.1	ZZ	JEREMY A. STEWART & AMANDA J. STEWART	06-T9-20.17
O	GERALD T. MOORE & ANNA M. MOORE	06-T3-20.3	AAA	JAMES E. DUNN & DONNA M. DUNN	06-T9-20.16
P	GERALD T. MOORE	06-T3-20.2	BBB	JAMES E. DUNN & DONNA M. DUNN	06-T9-20.8
Q	MELODY GARRISON	06-T3-33.1	CCC	DAVID A. WILLIAMS & JANIE G. WILLIAMS	06-T9-20.11
R	CAROL G. TEMPLIN	06-T3-18.1	DDD	DAVID A. WILLIAMS & JANIE G. WILLIAMS	06-T9-20.13
S	AMC, INC.	06-T3-15.1	EEE	GEORGE L. DUNN & NANCY M. DUNN	06-T9-20
T	GERALD T. MOORE & ANNA M. MOORE	06-T3-15	FFF	MICHAEL P. ORTH & BRENDA K. CUNNINGHAM	06-T9-20.35
U	GERALD T. MOORE & ANNA M. MOORE	06-T3-15.3	GGG	THOMAS E. POSEY & KATHERINE A. POSEY	06-T9-20.36
V	RICHARD G. DEEVER	03-L13-16	HHH	CONSTANCE L. KERCHER	06-T9-20.49
W	KARL L. KOSEM SR. & CAROL J. KOSEM	08-VG10-2.1	III	GEORGE L. DUNN & NANCY M. DUNN (LIFE), KATHERINE A. POSEY, CHRISTOPHER DUNN, RHONDA L. HAND & CONSTANCE L. KERCHER	06-T9-20.50
X	ANDREW P. HOGAN	08-VG10-14.1	JJJ	JAMES L. ABERCROMBIE & DIANA L. ABERCROMBIE	06-T9-20.30
Y	ROBERT W. MCCORD JR. & DIANNA L. MCCORD	06-T3-21	KKK	JAMES L. ABERCROMBIE & DIANA L. ABERCROMBIE	06-T9-20.29
Z	LAURA R. BERNIER	06-T3-24	LLL	DONNA H. HOLMAN-ALOE	06-T9-20.23
AA	RUTH R. HALL	06-T3-25	MMM	MICHAEL J. WHEELER	06-T9-20.31
BB	WILMA E. BROCK & ROBERT A. BROCK	06-T3-26.1	NNN	MICHAEL J. WHEELER	06-T9-20.26
CC	RICHARD HENRY & REBECCA HENRY	06-T3-26	OOO	MICHAEL J. WHEELER	06-T9-20.37
DD	BILLIE JO LONG	06-T9-1.1	PPP	BRENT A. HILL & PATTY J. HILL	06-T9-20.47
EE	DEBRA M. GELLNER & ALLAN L. GELLNER	06-T9-2.4	QQQ	BRENT A. HILL & PATTY J. HILL	06-T9-20.32
FF	DEBRA M. GELLNER & ALLAN L. GELLNER	06-T9-2.1	RRR	DONALD W. PEGG & JANICE L. PEGG	06-T9-20.1
GG	LINDA M. ORR & ROBERT BRADY ORR	06-T9-13.11	SSS	GARY FLANEGIN	06-T9-20.20
HH	THOMAS D. STRICKLIN	06-T9-13.7	TTT	MICHAEL W. NASH & CERELIA J. NASH	06-T9-20.19
II	LINDA M. ORR & ROBERT BRADY ORR	06-T9-13.8	UUU	LISA A. OLIVER	06-T9-20.21
JJ	LINDA M. ORR & ROBERT BRADY ORR	06-T9-13.4	VVV	SARAH ANN PORTER (S)	06-T9-20.44
KK	LINDA M. ORR & ROBERT BRADY ORR	06-T9-13.13	WWW	PHILLIP MARQUART & KERSTEN MARQUART (S)	06-T9-20.45
LL	DONALD L. PIKO	06-T9-13.10			

REVISIONS:	COMPANY:	 	
	OPERATOR'S	CHARLES FRYE OHI	API:
	WELL #:	405H	47-069-00231
	DISTRICT:	TRIADLPHIA	STATE:
		OHIO	WV
			DATE: 02-04-2019
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 3

**JACKSON SURVEYING
INC.**

P.O. Box 1460
677 W. Main St.
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.
- 3.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

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

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: CHARLES FRYE OHI	WELL # 405H	SERIAL #
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200, MORGANTOWN, WV 26508	COUNTY - CODE OHIO - 069	DISTRICT; TRIADELPHIA	
SURFACE OWNER: DOROTHY V. FRYE (LIFE ESTATE), AMY M. FRYE & CARRIE L. FRYE (REMAINDERMAN)	USGS 7 1/2 QUADRANGLE MAP NAME VALLEY GROVE, WV		API# 47-069-00231

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, W-6A1, by SWN Production Company, LLC, Operator
Charles Frye OHI 405H
Ohio County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG
1)	06-T14-01	Dorothy V. Frye, a widow	Great Lakes Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	775/335 808/375 883/204
2)	06-T9-20	George L. Dunn and Nancy M. Dunn, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	795/556 885/524
3)	06-T9-20.46	Christopher R. Dunn and Tanaka H. Dunn, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	815/235 883/228
4)	06-T9-20.2	Nancy Dunn, married, dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	815/243 883/228
5)	06-T9-20.41	Sarah Ann Porter and Charles Porter, her husband	SWN Production Company, LLC	16.00%	919/665
6)	06-T9-20-51	Herbert Lynn Richardson and Clara Eileen Richardson, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	814/487 883/243
7)	06-T9-20-5	Herbert Lynn Richardson and Clara Eileen Richardson, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	814/487 883/243
8)	06-T9-20-6	Herbert Lynn Richardson and Clara Eileen Richardson, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	814/487 883/243
9)	06-T9-20-39	Patricia R. Kirchner, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	810/575 883/180
10)	06-T9-20-18	Donna M. Dunn, AKA Donna K. Dunn, a married woman dealing in her sole and separate property, and Patricia R. Kirchner, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	810/570 883/180
11)	06-T9-17	Dorothy Mae Sampson, a/k/a Dorothy Mae Sampson, widow	Chevron U.S.A., Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	16.00%	834/8 867/713 884/277

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12)	06-T9-17-6	Dorothy Mae Sampson, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	873/138 884/349
13)	06-T9-17-7	Dorothy Mae Sampson, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	873/138 884/349
14)	06-T9-16	Dallas Pike Campground, LLC	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	811/686 883/216
15)	06-T9-15	Dallas Pike Campground, LLC	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	812/172 883/216
16)	I-70	Dallas Pike Campground, LLC	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	812/172 883/216
		Frederick H. Tustin and Carla J. Tustin, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	852/682 885/764
17)	06-T9-15-1	Frederick H. Tustin and Carla J. Tustin, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	852/682 885/764
18)	06-T9-15-7	Wendy Jo Eldridge and Joseph L. Eldridge, wife and husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	853/795 885/428
19)	06-T9-13-12	Linda M. Orr and Robert Brady Orr, Wife and Husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	872/358 884/349
20)	06-T9-12	Douglas R. Blanco and Audrey I. Blanco, husband and wife	SWN Production Company, LLC	17.00%	950/425
21)	06-T9-13-5	Roger Fader, a single man	SWN Production Company, LLC	15.00%	919/752
22)	06-T9-13-6	Thomas D. Stricklin, a single man	SWN Production Company, LLC	15.00%	919/676
23)	06-T9-8	Michael J. Fynmore, Alicia A. Coad AKA Alicia, A. Fynmore, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	821/92 884/337

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24)	WV County RT. 41 (Dallas Pike)	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	830/11 883/611		
25)	06-T9-1	Allen Gellner a/k/a Allen L. Gellner & Debra M. Gellner, husband and wife	SWN Production Company, LLC	15.00%	918/309		
26)	06-T9-1-2	Earl Thomas Beabout, Jr. and Linda Lou Beabout, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	802/715 890/256		
27)	06-T8-16	Randal Alan Howard, married	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	816/77 883/243		
28)	06-T8-13	Don Earl McFarland, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	817/604 884/325		
		Joel George McFarland, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	817/600 884/325		
		Brian Neal Milan, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	817/596 884/325		
29)	06-T3-27	Kevin S. Kosem and Brenda A. Kosem, husband and wife	Chevron U.S.A., Inc.	16.00%	834/30		
			Chesapeake Appalachia, L.L.C.		858/359		
			SWN Production Company, LLC		885/296		
30)	06-T8-12	Don Earl McFarland, a single man	Chesapeake Appalachia, L.L.C.	18.00%	817/608		
			SWN Production Company, LLC		884/325		
			Joel George McFarland, a married man dealing in his sole and separate property		Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	817/783 884/325
			Brian Neal Milan, a single man		Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	817/596 884/325

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Charles Frye OHI 405H
Ohio County, West Virginia

31)	06-T3-20	Clyde E. McCord, a married man dealing in his sole and separate property (life estate holder), and Melody E. Garrison, a married woman dealing in her sole and separate property (remainderman)	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	791/37 885/500
32)	06-T3-20-1	Paul Templin, Sr. and Carol G. Templin, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	811/77 883/156
33)	06-T3-33	Melody E. Garrison, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	791/409 885/500
34)	National Road	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	830/11 883/611
35)	08-VG10-1	Paul Templin, Sr. and Carol G. Templin, his wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	809/116 883/303

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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

January 24, 2019

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

RE: SWN's proposed well: Charles Frye OHI 405H in Ohio County, West Virginia, Drilling under National Road, Dallas Pike, McCutcheon Road, I-70 Cruiser Road, Cabela Drive, Orrs Run Road, & Co Hwy 39/6.

Dear Ms. Adkins:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under McCutcheon Road, Cherokee PI, Dallas Pike, I-70 Cruiser Road, Cabela Drive, Orrs Run Road, & Co Hwy 39/6.. 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,

Travis Hill
Senior Landman
SWN Production Company, LLC

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

February 14, 2019

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

RE: Modification: Charles Frye OHI 405H

Dear Ms. Adkins

Enclosed please find the updated 6B, Casing program, WBD, Mylar, Leases & Road letter for the above captioned well. This well is situated on the Frye's property, in Triadelphia 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
Regulatory Analyst
Southwestern Energy Production Company, LLC

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