

**JACKSON SURVEYING  
INC.**

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

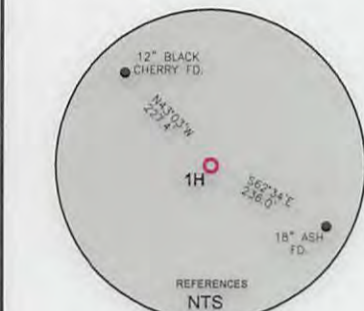
Latitude: 40°07'30" BOTTOM HOLE

SURFACE HOLE 1476'

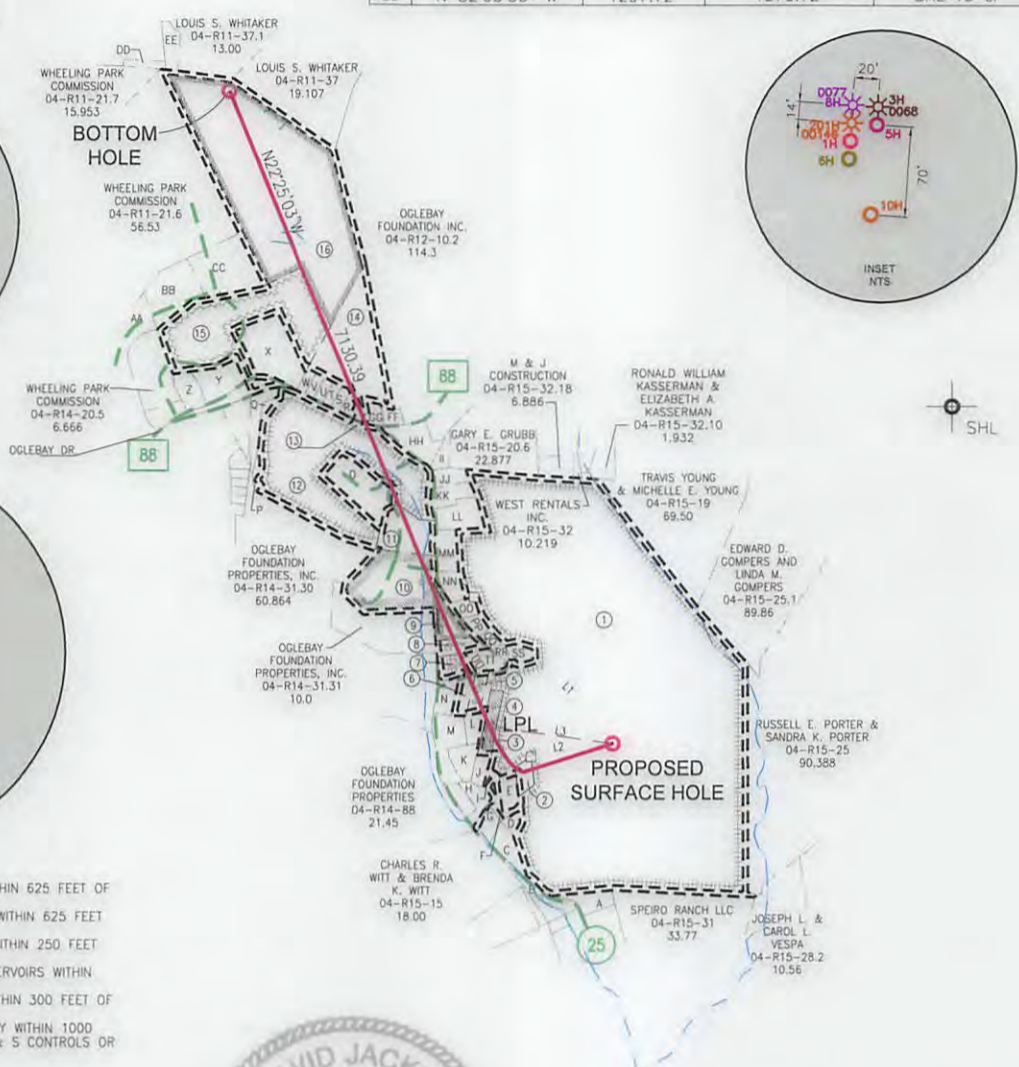
5453'

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

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,439,029.061 EASTING: 531,512.922
<b>LANDING POINT (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,439,083.699 EASTING: 531,121.167
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,441,092.805 EASTING: 530,292.357



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 43°28'11" W	2099.48'	SHL TO LANDMARK	2" IRON PIPE FD.
L2	S 81°00'23" W	861.85'	SHL TO LANDMARK	5/8" REBAR FD.
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 82°03'36" W	1297.72'	1576.72'	SHL TO LP



**WELL RESTRICTIONS**

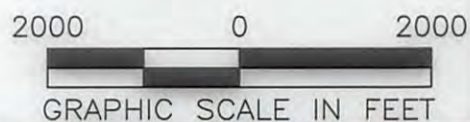
- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF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

**NOTES ON SURVEY**

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

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

P.S. 708 *David L. Jackson*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25034

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

COMPANY:	<b>SWN</b> Production Company, LLC	<b>SWN</b> Production Company™
OPERATOR'S WELL #:	EDWARD NICHOLS OHI 1H	
API WELL #:	47	069 00216
	STATE	COUNTY PERMIT

WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>	ELEVATION: 1310.0'
WATERSHED: PETERS RUN OF LITTLE WHEELING CREEK	QUADRANGLE: WHEELING, WV
DISTRICT: RICHLAND COUNTY: OHIO	ACREAGE: ±240.064
SURFACE OWNER: EDWARD NICHOLS & JUDITH NICHOLS	ACREAGE: ±240.064
OIL & GAS ROYALTY OWNER: EDWARD NICHOLS & JUDITH NICHOLS	
DRILL <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input checked="" type="checkbox"/>	
CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY)	
TARGET FORMATION: MARCELLUS	ESTIMATED DEPTH: 6,194 TVD 13,840 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300	ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378	CITY: JANE LEW STATE: WV ZIP CODE: 26378

<b>LEGEND:</b>	— SURVEYED BOUNDARY	<b>REVISIONS:</b>	DATE: 12-20-2016
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT	△ ADDED TRACT 13 12-22-2016	
★ EXISTING / PRODUCING WELLHEAD	== LEASE BOUNDARY	△ REVISED TVD & DHP 03-09-2017	DRAWN BY: N. MANO
LPL★ LANDING POINT LOCATION	— PROPOSED PATH		SCALE: 1" = 2000'
W EXISTING WATER WELL			DRAWING NO:
S EXISTING SPRING			WELL LOCATION PLAT


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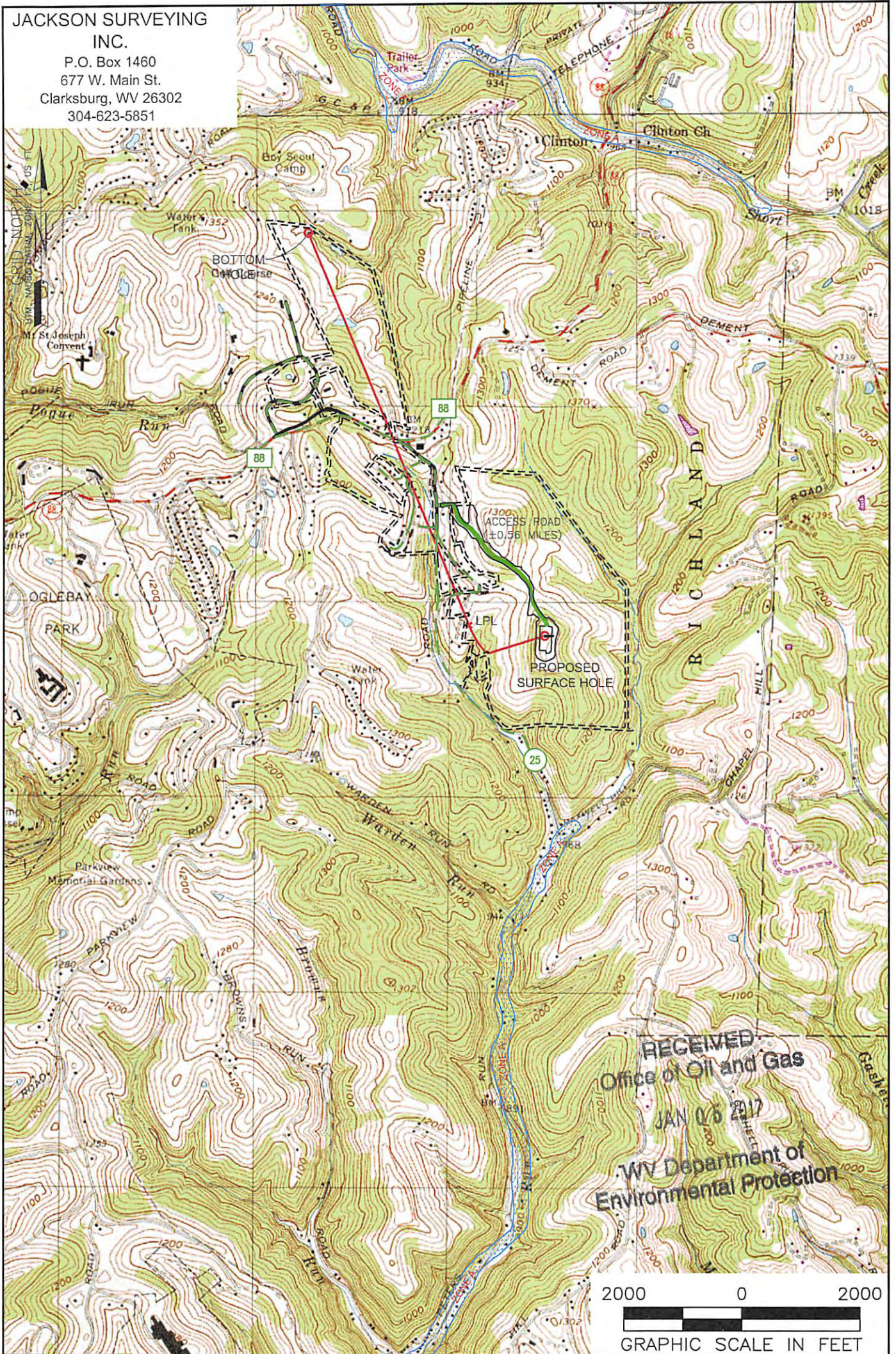
WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	EDWARD NICHOLS & JUDITH NICHOLS (S/R)	04-R15-16	240.064
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	BRIAN R. MENGEU & LISA M. MENGEU	04-R15-16.29	1.262
3	CECIL CHIPLINSKI & TAMMY K. CHIPLINSKI	04-R15-16.23	1.023
4	PATTY M. JEWETT & JAMES A. JEWETT	04-R15-16.24	1.01
5	OLDGA V. RINE & DENISE E. RINE	04-R15-16.4	1.049
6	CURTIS WILLIAMS & GERDA WILLIAMS	04-R15-16.1	1.047
7	LEWIS R. HOPKINS & ROSEMARY HOPKINS	04-R15-16.6	2.376
8	JEANNINE DIERKES & GLENN W. DIERKES	04-R15-16.8	1.77
9	CHRISTOPHER G. KARPINSKI & HOLLY M. KARPINSKI	04-R15-16.9	1.98
10	WHEELING STATION LTD	04-R14-31.3	11.069
11	OGLEBAY VILLAGE LTD	04-R14-31.4	8.25
12	GEORGE J. KONTOGIANNIS	04-R14-31	39.027
13	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION(S)	WV STATE ROUTE 88	
14	ANTIOCH SURVIVORS TRUST	04-R14-94	18.00
15	WHEELING PARK COMMISSION	04-R11-20.3	26.386
16	WHEELING PARK COMMISSION	04-R11-38	59.60

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	CRAIG E. STEPHEN & JENNIFER L. GILES	04-R15-10	1.74
B	LARRY TRANK & PATRICIA TRANK	04-R15-16.17	0.62
C	VENEIDA K. BAKER	04-R15-16.15	2.16
D	VENEIDA K. BAKER	04-R15-16.28	0.576
E	CHRISTOPHER J. NORMAN	04-R15-16.25	1.21
F	VENEIDA K. BAKER	04-R15-16.30	0.232
G	VENEIDA K. BAKER	04-R15-16.16	1.09
H	JEFFREY W. PFISTER & JENNIFER J. PFISTER	04-R15-16.33	1.36
I	JEFFREY W. PFISTER & JENNIFER J. PFISTER	04-R15-16.34	0.0419
J	RICHARD L. BRAK	04-R15-16.21	1.173
K	LESLIE DAVID LEWIS	04-R15-16.22	1.484
L	GREGORY FUNARI & DEANNA L. FUNARI	04-R15-16.20	1.000
M	JAMES COSMO & KATHLEEN COSMO	04-R15-16.2	3.477
N	BRUCE A. ARCHER & SHEILA M. ARCHER	04-R15-17	1.073
O	OGLEBAY VILLAGE LTD	04-R14-31.5	1.03
P	OGLEBAY FOUNDATION PROPERTIES INC.	04-R14-31.7	0.448
Q	OGLEBAY FOUNDATION PROPERTIES INC.	04-R14-31.6	0.255
R	JOHN GONGOLA & BERTHA GONGOLA	04-R14-92	0.38
S	TERRY P. SMITH & STACEY L. POPICG	04-R14-25	0.517
T	H. DOUGLAS HAIGWOOD	04-R14-24	0.515
U	TERRY P. SMITH & SCOTT P. SMITH	04-R14-23	0.46
V	ANITA L. TRISCHLER	04-R14-22	0.51
W	NANCY L. HERRIGAN TRUST	04-R14-21	0.46
X	WHEELING PARK COMMISSION	04-R14-20.4	7.368
Y	WHEELING PARK COMMISSION	04-R14-20	4.513
Z	WHEELING PARK COMMISSION	04-R14-20.6	2.166
AA	WHEELING PARK COMMISSION	04-R14-20.2	12.962
BB	WHEELING PARK COMMISSION	04-R11-21.2	5.660
CC	WHEELING PARK COMMISSION	04-R11-21.37	7.38
DD	J. ROBERT BLANKENSHIP	04-R11-24.1	1.00
EE	ROBERT R. CUSTER & K.A. CUSTER	04-R11-24.2	1.41
FF	JAMES E. SPARGO & SUSAN P. SPARGO	04-R14-26	0.92
GG	ROBERT E. SCHERICH & DOLORES M. SCHERICH	04-R14-93	0.674
HH	GENE C. VALENTINE TRUST	04-R14-30	2.88
II	JOHNNY L. PIERSON JR. & COURTNEY PIERSON	04-R14-30.4	1.29
JJ	HAROLD L. PICKENS & DEBORAH A. MCCLELLAND	04-R15-16.13	1.59
KK	LINDA H. ROSS	04-R15-16.12	1.62
LL	BOARD OF COMMISSION OHIO COUNTY	04-R15-16.11	3.09
MM	TAMILA LYNN WADE	04-R15-16.10	2.73
NN	ANDREW S. GAUDINO	04-R15-18	1.37
OO	LAWRENCE R. DIXON & JAMES M. DIXON	04-R15-16.7	0.875
PP	LAWRENCE D. BOLE & J.L. BOLE	04-R15-16.14	0.772
QQ	EDWARD J. NICHOLS, MAJORIE C. NICHOLS & JUDY C. NICHOLS	04-R15-16.19	0.219
SS	JUDITH C. NICHOLS	04-R15-16.32	0.953
RR	EDWARD J. NICHOLS, MAJORIE C. NICHOLS & JUDY C. NICHOLS	04-R15-16.31	0.192
TT	EDWARD E. NICHOLS & MARJORIE C. NICHOLS	04-R15-16.18	1.91
UU	CHARLES L. HODGSON & K.P. HODGSON	04-R15-16.3	0.766

04/21/2017

REVISIONS:	COMPANY:			
Δ ADDED TRACT 13 12-22-2016 Δ REVISED TVD & DHP 03-09-2017				
	OPERATOR'S	EDWARD NICHOLS OHI		DATE: 12-20-2016
	WELL #:	1H		DRAWN BY: N. MANO
	DISTRICT:	COUNTY:	STATE:	SCALE: N/A
	RICHLAND	OHIO	WV	DRAWING NO:
				WELL LOCATION PLAT 2

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RECEIVED  
 Office of Oil and Gas  
 JAN 06 2017  
 WV Department of  
 Environmental Protection

NOTES ON SURVEY

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2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. 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
- == LEASE BOUNDARY
- PROPOSED PATH

04/21/2017

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: EDWARD NICHOLS OH1	WELL # 1H	SERIAL #
ADDRESS: P.O. BOX 1300 JANE LEW, WV 26378	COUNTY - CODE OHIO - 069	DISTRICT; RICHLAND	
SURFACE OWNER: EDWARD NICHOLS & JUDITH NICHOLS	USGS 7 1/2 QUADRANGLE MAP NAME WHEELING, WV		