

Latitude: 40°05'00" SURFACE HOLE 348

Latitude: 40°05'00" BOTTOM HOLE 2739

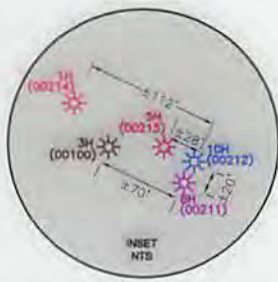
JACKSON SURVEYING INC.

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

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,149.603 EASTING: 535,435.788
LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,657.672 EASTING: 535,503.429
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,435,073.112 EASTING: 534,698.042



WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	DEBORAH ANN CRAIG & SETH COLLIN CRAIG (S/R)	06-T13-16	85.045
2	DEBORAH ANN CRAIG & SETH COLLIN CRAIG (S)	06-T8-50	1.924
3	CRAIG KENNETH BRYAN (S)	06-T8-53.2	2.00
4	JONATHAN P. DUGGAN & JAMES DUGGAN (S)	06-T8-46	68.98
5	OHIO COUNTY DEVELOPMENT AUTHORITY (S)	06-T8-46.12	1.21
6	BETH ANN MARTIN, CAROLINE LOUISE BOYD, JENNIFER LEE BOYD, THELMA JANECE BOYD, COLLEEN MARIE SOEHNLEIN, JAMES C. BOYD III, COUSIN'S ROYALTY, INC., OHIO COUNTY DEVELOPMENT AUTHORITY, JONATHAN P. DUGGAN & JAMES DUGGAN (S)	1-70	45.436
7	BETH ANN MARTIN, CAROLINE LOUISE BOYD, JENNIFER LEE BOYD, THELMA JANECE BOYD, COLLEEN MARIE SOEHNLEIN & JAMES C. BOYD III (S)	06-T8-44	4.01
8	OHIO COUNTY DEVELOPMENT AUTHORITY (S)	06-T8-39.10	9.079
9	OHIO COUNTY DEVELOPMENT AUTHORITY (S)	06-T8-39.9	1.198



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 12°36'09" W	3029.30'	SHL TO LANDMARK	SPIKE FOUND
L2	S 78°58'14" E	1129.71'	SHL TO LANDMARK	FENCE POST FOUND

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 07°16'29" E	1713.63'	1776.00'	SHL TO LP



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,149.649 EASTING: 535,435.751
LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,657.761 EASTING: 535,501.889
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,435,072.654 EASTING: 534,698.109

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 DR 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*





<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)</p>	<p>COMPANY: SWN Production Company, LLC</p> <p>DEBORAH CRAIG OHI</p> <p>OPERATOR'S WELL #: 5H</p> <p>API WELL #: 47 STATE 069 COUNTY 00215 PERMIT</p>
	<p>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"/></p> <p>WATERSHED: TANYARD RUN OF MIDDLE WHEELING CREEK ELEVATION: 1329.3'</p> <p>DISTRICT: TRIADDELPHIA COUNTY: OHIO QUADRANGLE: VALLEY GROVE, WV</p> <p>SURFACE OWNER: DEBORAH ANN CRAIG & SETH COLLIN CRAIG ACREAGE: ±85.045</p> <p>OIL & GAS ROYALTY OWNER: DEBORAH ANN CRAIG & SETH COLLIN CRAIG ACREAGE: ±85.045</p> <p>DRILL <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/></p> <p>CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY) ASDRILLED</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,535 FT</p>	<p>WELL OPERATOR: SWN PRODUCTION COMPANY, LLC</p> <p>ADDRESS: P.O. BOX 1300</p> <p>CITY: JANE LEW STATE: WV ZIP CODE: 26378</p> <p>DESIGNATED AGENT: DEE SOUTHALL</p> <p>ADDRESS: P.O. BOX 1300</p> <p>CITY: JANE LEW STATE: WV ZIP CODE: 26378</p>
<p>LEGEND:</p> <ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ★ EXISTING / PRODUCING WELLHEAD LPL ★ LANDING POINT LOCATION ⊙ EXISTING WATER WELL ⊕ EXISTING SPRING — SURVEYED BOUNDARY — DRILLING UNIT — LEASE BOUNDARY — ASDRILLED PATH — PROPOSED PATH 	<p>REVISIONS:</p> <p>DATE: 09-08-2017</p> <p>DRAWN BY: N. MANO</p> <p>SCALE: 1" = 2000'</p> <p>DRAWING NO:</p> <p>WELL LOCATION PLAT</p>	

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 INC.
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ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	OHIO COUNTY DEVELOPMENT AUTHORITY	06-18-46.8	1.402
B	OHIO COUNTY DEVELOPMENT AUTHORITY	06-18-46.19	0.33
C	OHIO COUNTY DEVELOPMENT AUTHORITY	06-18-39.5	1.4452
D	OHIO COUNTY DEVELOPMENT AUTHORITY	06-18-39.3	0.93
E	OHIO COUNTY DEVELOPMENT AUTHORITY	06-18-39.6	0.85
F	OHIO COUNTY DEVELOPMENT AUTHORITY	06-18-39.1	1.31
G	OHIO COUNTY DEVELOPMENT AUTHORITY	06-18-39.2	1.54
H	OHIO COUNTY DEVELOPMENT AUTHORITY	06-18-39	1.0842
I	KG DEVELOPMENT LLC	06-18-39.4	0.9812
J	KG DEVELOPMENT LLC	06-18-39.7	0.8514
K	OMNIVIA INC.	06-18-39.8	0.8574
L	WHEELING POWER COMPANY C/O AEP	06-18-27.12	3.176
M	COUSINS REALTY, INC.	06-18-27.4	0.464
N	OHIO COUNTY DEVELOPMENT AUTHORITY	06-18-45.6	3.07
O	OHIO COUNTY DEVELOPMENT AUTHORITY	06-18-45.3	4.433
P	JONATHAN P. DUGGAN & JAMES DUGGAN	06-18-46.21	0.99
Q	QUADRANT 11, LLC	06-18-69	0.321
R	QUADRANT 11, LLC	06-18-46.16	2.32
S	HOLIDAY INN EXPRESS WHEELING HOSPITALITY	06-18-46.17	2.42
T	JOHN DUGGAN & ANN DUGGAN	06-18-46.24	0.125
U	JOHN DUGGAN & ANN DUGGAN	06-18-46.20	0.39
V	JOHN DUGGAN & ANN DUGGAN	06-18-46.22	0.72
W	BEVERLY E. KNIERIM	06-18-46.3	1.00
X	BEVERLY E. KNIERIM	06-18-47.8	1.00
Y	DONNA L. CROW	06-18-46.5	0.50
Z	WILLIAM A. CROW	06-18-47.3	1.0348
AA	JAMES P. RICHMOND & D.L. RICHMOND	06-18-47.4	1.0003
BB	JEFFREY A. FOSTER	06-18-47.5	0.6774
CC	LOUIS A. SELLER & B.M. SELLER	06-18-47.7	0.15
DD	LOUIS A. SELLER & B.M. SELLER	06-18-53.3	1.00
EE	CHARLES H. FRYE & D.V. FRYE	06-18-48	0.468
FF	DEBORAH ANN CRAIG & SETH C. CRAIG	06-18-52	0.94

03/02/2018

REVISIONS:	COMPANY:	 	
	OPERATOR'S	DEBORAH CRAIG OHI	
	WELL #:	5H	
	DISTRICT:	COUNTY:	STATE:
	TRIADELPHIA	OHIO	WV
			DATE: 09-08-2017
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 2