

Latitude: 40°05'00" SURFACE HOLE 331'

JACKSON SURVEYING INC.

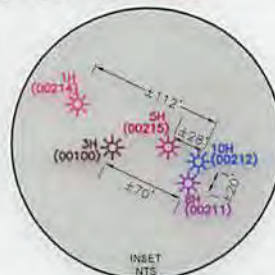
P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,140.429 EASTING: 535,440.863
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,432,943.613 EASTING: 535,472.297
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,655.558 EASTING: 537,020.242

Latitude: 40°02'30"

BOTTOM HOLE 6955'

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	DEBORAH ANN CRAIG (S/R)	06-113-16	84.63
SURFACE OWNER			
2	WM. A. LANGMYER & M.J. LANGMYER (S)	06-113-17.2	21.61
3	LLOYD E. BEHRENS JR. & S.L. BEHRENS (S)	06-113-15	96.95
4	WILLIAM LANGMYER & MARY J. LANGMYER (S)	06-113-14.1	3.60
5	ROBERT LEECH (S)	06-113-17	22.06
6	NELLIE M. FISHER (LIFE EST.) (S)	06-114-05	90.081
7	WHEELING CREEK WATERSHED PROTECTION & FLOOD PROTECTION COMM (S)	06-114-06	251.16
8	JAMES A. MITCHAM & B.A. MITCHAM (S)	06-119-1.14	59.522
9	JAMES A. MITCHAM & B.A. MITCHAM (S)	06-119-1.12	25.00



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



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 12°47'17" E	3053.26'	SHL TO LANDMARK	SPIKE FOUND
L2	N 80°18'36" W	1107.74'	SHL TO LANDMARK	FENCE POST FOUND
L3	S 13°31'19" E	822.18'	CURVE LENGTH	SHL TO LP

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,140.508 EASTING: 535,440.885
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,432,896.853 EASTING: 535,499.480
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,703.200 EASTING: 536,989.007



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.

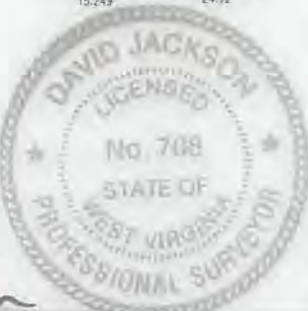
NOTES ON SURVEY

- 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: **SWN** Production Company, LLC

DEBORAH CRAIG OHI		
OPERATOR'S WELL #:	8H	
API WELL #:	47	069 00211
	STATE	COUNTY PERMIT

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

WATERSHED: TARYARD RUN OF MIDDLE WHEELING CREEK ELEVATION: 1339.3'

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

SURFACE OWNER: DEBORAH ANN CRAIG ACREAGE: ±84.63

OIL & GAS ROYALTY OWNER: DEBORAH ANN CRAIG ACREAGE: ±84.63

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,704 TVD 15,729 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

LEGEND:	REVISIONS:	DATE: 09-08-2017
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT	FILE NO.:
⊙ EXISTING / PRODUCING WELLHEAD	— LEASE BOUNDARY	DRAWN BY: N. MANO
LPL* LANDING POINT LOCATION	— ASDRILLED PATH	SCALE: 1" = 2000'
⊙ EXISTING WATER WELL	— PROPOSED PATH	DRAWING NO.:
⊙ EXISTING SPRING		WELL LOCATION PLAT

03/02/2018