

# HOFFMAN ASSOCIATES INC

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Surveying • handa-inc.com

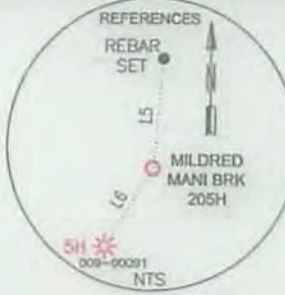
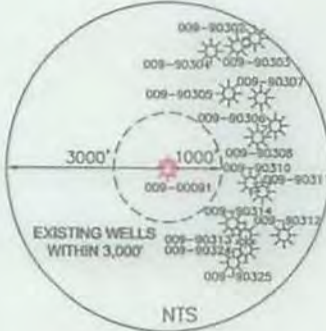
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 89°30'22" E	1433.14'	SHL TO LANDMARK	FOUND IRON PIPE
L2	S 47°45'53" E	975.39'	SHL TO LANDMARK	FOUND IRON PIPE
L3	N 56°58'20" E	1355.60'	SHL TO TPL	
L4	N 21°53'27" W	4549.40'	TPL TO BHL	
L5	N 05°04'41" E	177.42'	SHL TO REF. PNT.	1/2" REBAR SET
L6	S 31°09'47" W	13.65'	SHL TO REF. PNT.	MILDRED MANI BRK 5H WELL HEAD 009-00091

Latitude: 40°17'30"

Longitude: 80°35'00"

TRACT	SURFACE OWNER (S)	ROYALTY OWNER (R)	TAX PARCEL	ACRES	LEASE NUMBER
8	JAMES HARWELL DODD JR ET AL (S)		B27H-31	0.660	
	ROBIN J. GEORGE & JIM DALE GEORGE (R)		B27H-31	0.660	1-120106-001
	JAMES HARWELL JR. & LYNN L. DODD (R)		B27H-31	0.660	1-120106-002
	JEANNE M. MCGILL & RICHARD T. MCGILL (R)		B27H-31	0.660	1-120106-003
7	BARRY L. KIRTLEY (S/R)		B27H-29	1.334	47-000558-000
6	PATRICIA A. ANTAL (S/R)		B27H-25	0.300	1-343033-000
5	WILLIAM C. HARVEY & MARY B. HARVEY (S/R)		B27H-23	0.360	47-000524-000

GRID NORTH  
UTM, NAD83 DATUM, ZONE 17, U.S. FT.



**WW-6A1 LEGEND**  
(S) SURFACE OWNER  
(R) ROYALTY OWNER  
(TMP) TAX MAP PARCEL NUMBER  
(L) LEASE NUMBER



SURFACE HOLE LOCATION (SHL):	
GEOGRAPHIC (NAD83):	LATITUDE: 40.253920° LONGITUDE: -80.589562°
UTM (NAD83, ZONE 17, FEET):	NORTHING: 14,619,463.124 EASTING: 1,754,933.460
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,456,021.272 EASTING: 534,904.788
TURNING POINT LOCATION (TPL):	
GEOGRAPHIC (NAD83):	LATITUDE: 40.255935° LONGITUDE: -80.585476°
UTM (NAD83, ZONE 17, FEET):	NORTHING: 14,620,201.985 EASTING: 1,756,070.006
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,456,246.478 EASTING: 535,251.208
BOTTOM HOLE LOCATION (BHL):	
GEOGRAPHIC (NAD83):	LATITUDE: 40.267548° LONGITUDE: -80.591486°
UTM (NAD83, ZONE 17, FEET):	NORTHING: 14,624,423.357 EASTING: 1,754,373.814
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,457,533.154 EASTING: 534,734.208

- NOTES ON SURVEY**
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
  - SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
  - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
  - NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
  - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
  - NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 1000 FEET OF THE LIMITS OF DISTURBANCE.
  - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

SURVEYED BY TRIPLE H ENTERPRISES, WEST UNION, WV.



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. 667 *Darrell Boice*

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

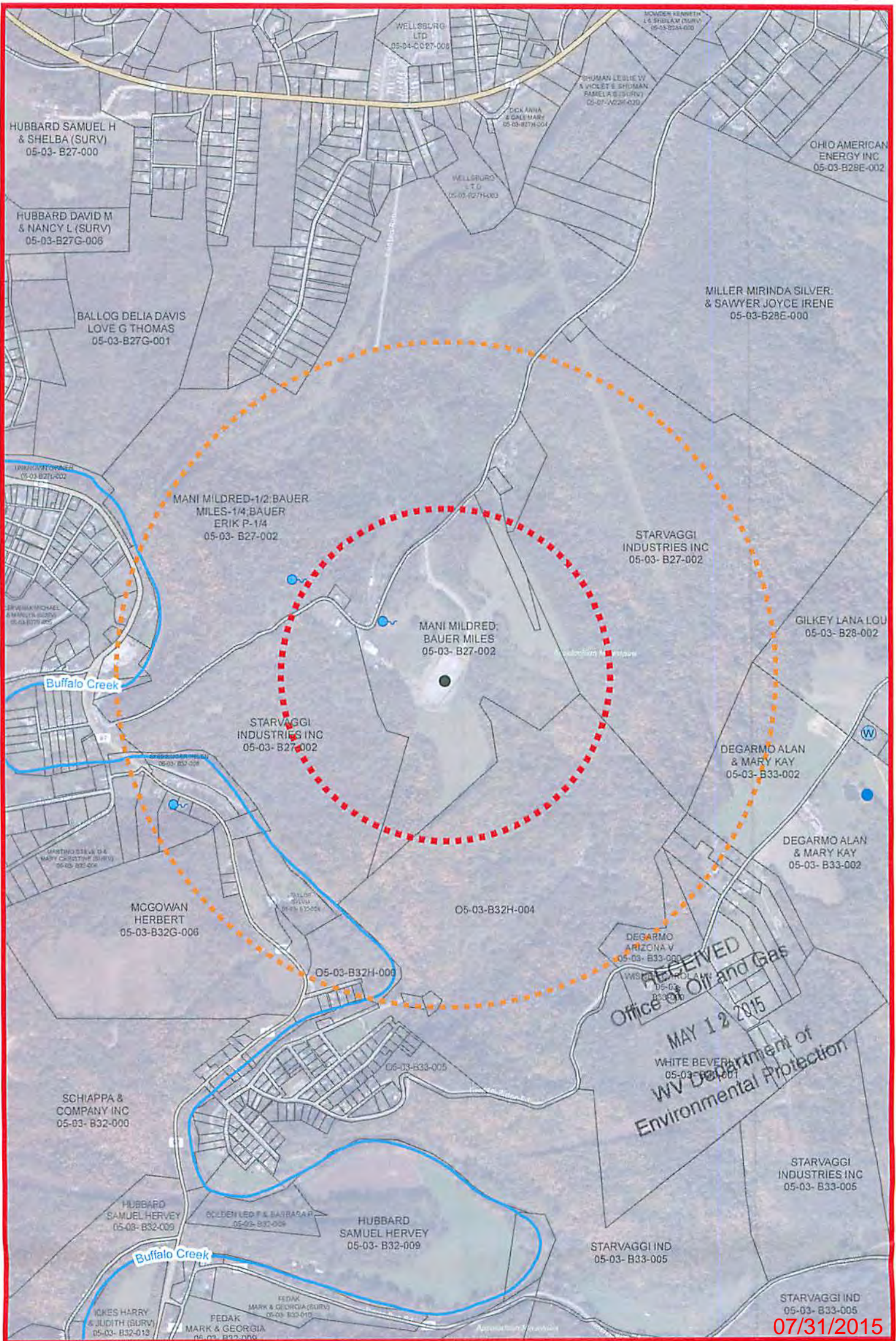
MINIMUM DEGREE OF ACCURACY: 1/200  
PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

2000 0 2000  
GRAPHIC SCALE IN FEET  
COMPANY: SWN office of oil and gas  
Production Company, LLC  
MILDRED MANI BRK 205H  
OPERATOR'S WELL #: 47  
API WELL #: 09 00159  
STATE COUNTY PERMIT

WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW   
WATERSHED: UPPER OHIO SOUTH ELEVATION: 1073.0'  
DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: STUEBENVILLE EAST WV.  
SURFACE OWNER: MILDRED MANI & ERIK PHILIP BAUER ACREAGE: 95.00±  
OIL & GAS ROYALTY OWNER: MILDRED MANI & ERIK PHILIP BAUER ACREAGE: 95.00±  
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: 5,701' IVD 10,915' IMD

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:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE		04-28-2015
⊗ EXISTING / PRODUCING WELLHEAD	--- LEASE BOUNDARY	
⊘ ABANDONED WELL	--- 500' DHP BUFFER	
⊗ PLUGGED & ABANDONED WELL	- MAR 1 - MARCELLUS DHP	
△ CUT CONDUCTOR	--- ABANDONED PATH	
		DRAWN BY: S. HUTSON
		SCALE: 1" = 2000'
		DRAWING NO: 58579
		WELL LOCATION PLAT



The intent of this map is for general reference only. Information on this map was created using the best available data at the time but is not guaranteed accurate.

<h1>Water Purveyor Map</h1>		Well Pad: Mildred Mani Brk		County: Brook, WV	
		Map by: youngst Nad 83 UTM Z one 17		Date: 4/30/2015 	
Map by: youngst Date: 4/30/2015		Terra Well Pad	Point Radius - 1500 ft Radius - 3000 ft	1 inch = 1,000 feet 	
				Document Path: Team\com\swm\040325\CO\Team\Team Data\GIS\Well_Visual\Regulatory\Water_Purveyor Maps\20150403_040325_Water_Purveyor_Map.mxd	