

Latitude: 39°35'00" N

SHL

10,207'

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: 4,380,745.692 EASTING: 572,042.582
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,380,631.440 EASTING: 571,742.292
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,378,664.998 EASTING: 572,439.597

TRACT	ADJOINING SURFACE OWNER (S)	TAX PARCEL	ACRES
A	MONONGAHELA POWER CO. (S)	16-27A-03	1.79
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	QUALITY RECLAMATION SERVICES, LLC. (S)	16-23-03	226.071
2	TOWN OF GRANT (S)	16-27-31	16.59
3	AMERICAN BITUMINOUS POWER PARTNERS, LP (S)	16-27-31.1	22.193
4	HORIZON VENTURES OF WEST VIRGINIA, INC (S)	16-27A-1 SP5	41.58
5	HORIZON VENTURES OF WEST VIRGINIA, INC (S)	16-27A-1 SP4	39.39
6	AMERICAN BITUMINOUS POWER PARTNERS, LP (S)	16-27-33	35.00
7	AMERICAN BITUMINOUS POWER PARTNERS, LP (S)	16-27-42	121.80

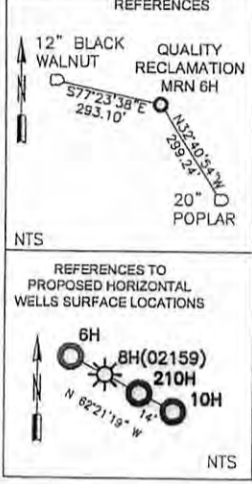
LINE	BEARING	DISTANCE	DESCRIPTION
L1	S 62°27'57" E	881.09'	SHL TO CNR FP
L2	S 27°52'28" E	1,817.19'	SHL TO CNR FP
L3	S 69°10'11" W	1,054.10'	SHL TO LPL

NOTES ON SURVEY

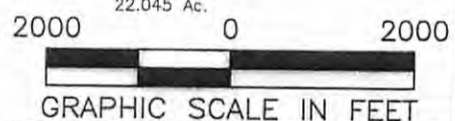
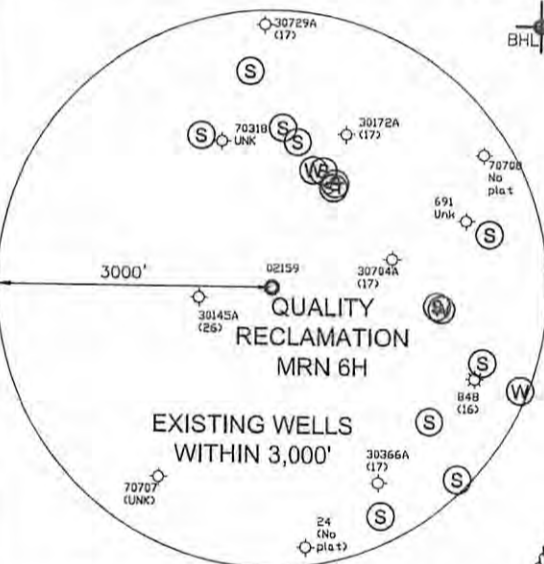
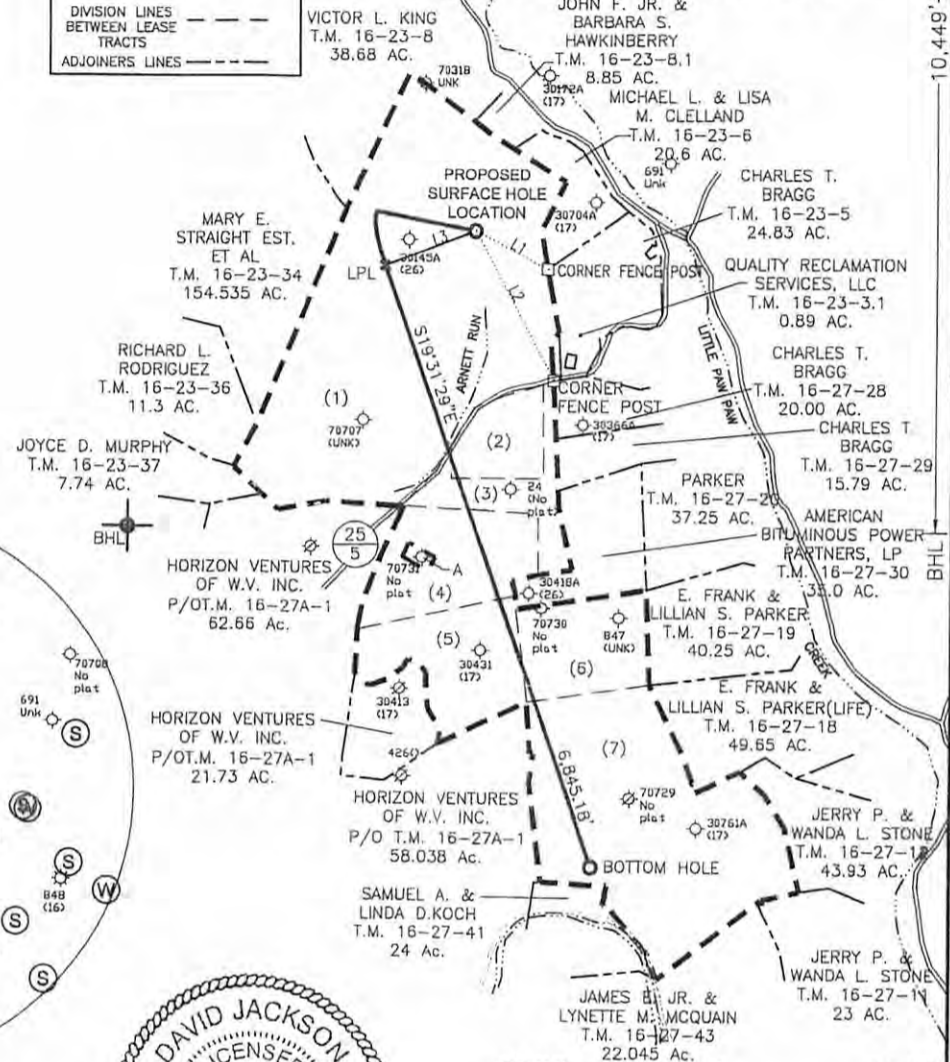
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
- THIS PLAT DOES NOT 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 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- ALL WELLS WITHIN 500' OF THE HORIZONTAL LEG ARE SHOWN ON THIS MAP BASED UPON INFORMATION TAKEN FROM DEP MAPPING, WELL PLATS AND AERIAL PHOTOS.

LEGEND

WATERWELL	(W)
SPRING	(S)
STREAM	(ST)
SURFACE OWNER	(S)
DIVISION LINES BETWEEN LEASE TRACTS	---
ADJOINERS LINES	---



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



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** ^{PL}/_A ^{PL}/_{V+} ^{PL}/₊
Production Company, LLC Production Company™

(+) 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)

QUALITY RECLAMATION

OPERATOR'S WELL #: MRN 6H

API WELL #: 47 049 02421 ^{HGA}

STATE COUNTY PERMIT

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

WATERSHED: ARNETT RUN OF MONONGAHELA RIVER

DISTRICT: PAW PAW COUNTY: MARION

SURFACE OWNER: QUALITY RECLAMATION SERVICES, LLC

OIL & GAS ROYALTY OWNER: JAMES & DOROTHY ICE, ET AL

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: 7,824' TO 11,123' 2017

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC

ADDRESS: P.O. BOX 1300

CITY: JANE LEW STATE: WV ZIP CODE: 26378

DESIGNATED AGENT: DEE SOUTHALL

ADDRESS: P.O. BOX 1300

CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ⊙ EXISTING / PRODUCING WELLHEAD
- ⊗ ABANDONED WELL
- ⊕ PLUGGED & ABANDONED WELL
- △ CUT CONDUCTOR
- LEASE BOUNDARY
- MARCELLUS DHP
- ABANDONED PATH

REVISIONS:

△ 6A1 REVISIONS 09-09-2016

DATE: 09-15-2016

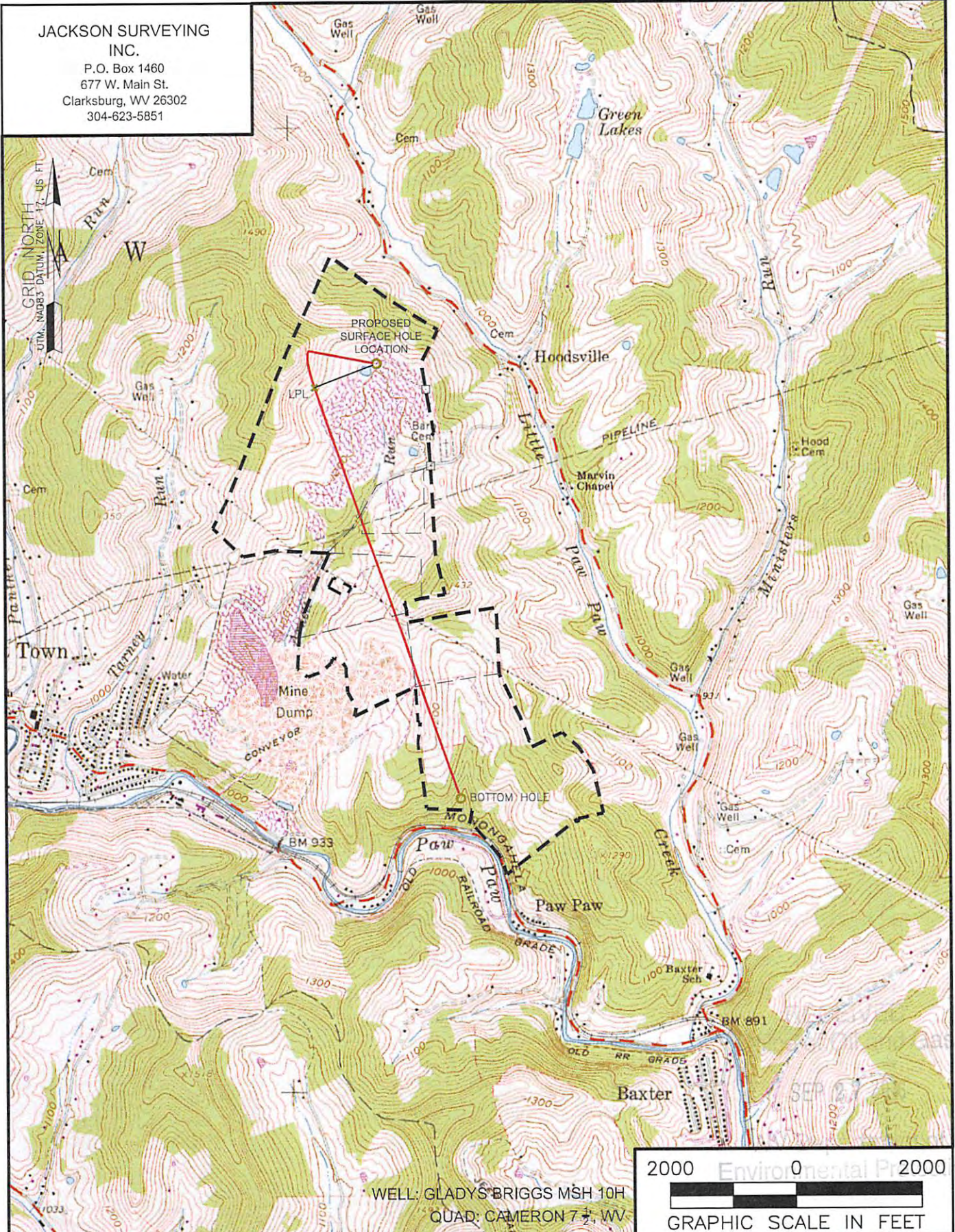
DRAWN BY: N. MANO

SCALE: 1" = 2000'

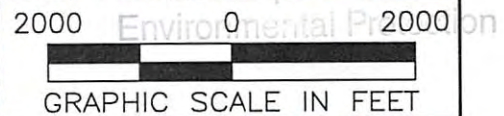
DRAWING NO:

WELL LOCATION PLAT

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



WELL: GLADYS BRIGGS MSH 10H
QUAD: CAMERON 7 1/2, WV



NAME AND DISTANCE TO THE NEAREST STREAM: FISH CREEK IS LOCATED ±0.49 MILES SW OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): NO NEW CROSSINGS.		COMPANY: 	
WELL RESTRICTIONS: WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ FT: >625 FEET		OPERATOR'S QUALITY RECLAMATION		WELL #: MRN 6H	
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF MARSHALL COUNTY, WEST VIRGINIA; MAP NUMBER 54051C0200 E; EFFECTIVE DATE: SEPTEMBER 25, 2009.		LOCATION: PAW PAW DISTRICT, MARION COUNTY, WEST VIRGINIA		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.573393' LONGITUDE: -80.161214'	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ✖ EXISTING / PRODUCING WELLHEAD ✖ ABANDONED WELL ✖ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR		(S) EXISTING SPRING (W) EXISTING WATER WELL ACCESS ROAD ACCESS ROAD TO PREV. SITE MARCELLUS LEG COUNTY ROAD		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.554613' LONGITUDE: -80.156819'	
		REVISIONS: △ 6A1 REVISIONS 09-09-2016		DATE: 09-15-2016	
				DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: TOPOGRAPHIC MAP	