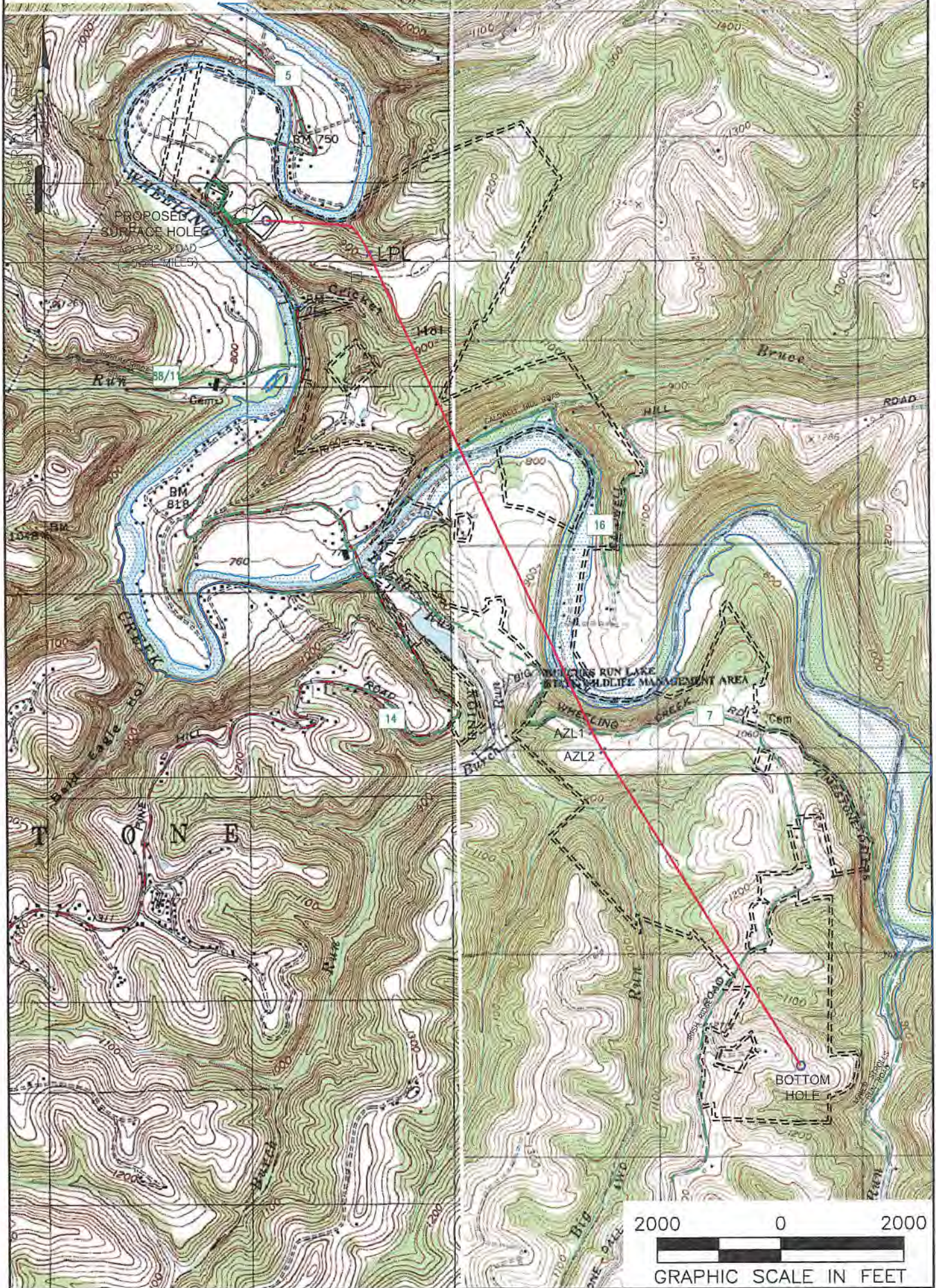


51-02398

**JACKSON SURVEYING  
INC.**

2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851



**NOTES ON SURVEY**

1. 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.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

**LEGEND:**

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

**WELL OPERATOR:**  
SWN PRODUCTION COMPANY, LLC

**ADDRESS:**  
1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508

**SURFACE OWNER:**  
BETTY JANE SCHAFER

**WELL (FARM) NAME:**  
BETTY SCHAFER MSH

**COUNTY - CODE**  
MARSHALL - 051

**USGS 7 1/2 QUADRANGLE MAP NAME**  
MOUNDSVILLE, WV

**WELL #** 10H **SERIAL #**

**DISTRICT;**  
SAND HILL

Latitude: 40°00'00" SURFACE HOLE 2971'  
 Latitude: 39°57'30" BOTTOM HOLE 6120'

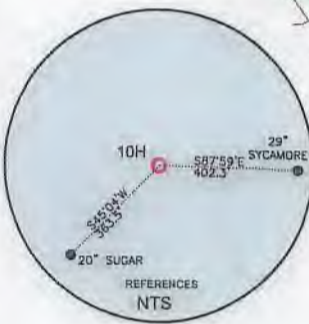
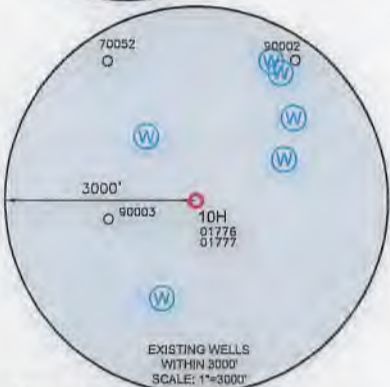
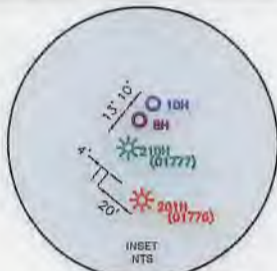
**JACKSON SURVEYING INC.**

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LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 74°48'14" W	800.60'	SHL TO LANDMARK	FD. 5/8" REBAR
L2	S 58°01'19" E	1715.15'	SHL TO LANDMARK	FD. 5/8" REBAR
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 72°09'37" E	1752.35'	1909.19'	SHL TO LPL
L4	S 28°30'25" E	358.86'	359.08'	AZL1 TO AZL2

<b>SURFACE HOLE LOCATION (SHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,426,817.023 EASTING: 531,108.823
<b>LANDING POINT LOCATION (LPL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,426,653.394 EASTING: 531,617.258
<b>AZIMUTH POINT LOCATION-1 (AZL1):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,424,312.931 EASTING: 532,704.460
<b>AZIMUTH POINT LOCATION-2 (AZL2):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,424,216.812 EASTING: 532,756.663
<b>BOTTOM HOLE LOCATION (BHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,422,671.796 EASTING: 533,725.890

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



**WELL RESTRICTIONS**

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

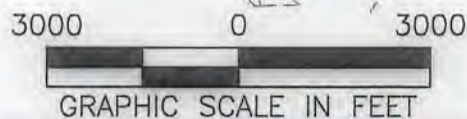
**NOTES ON SURVEY**

1. 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.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. 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*



COMPANY: **SWN** Production Company, LLC

(+) 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 ELEVATION: GRADE GPS (NAVD 88, US FT)

BETTY SCHAFER MSH  
 OPERATOR'S WELL #: 10H  
 API WELL #: 47 051 02298  
 STATE COUNTY PERMIT

WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW   
 WATERSHED: WHEELING CREEK (HUC-10) ELEVATION: 848.4'  
 DISTRICT: SAND HILL COUNTY: MARSHALL QUADRANGLE: MOUNDSVILLE, WV  
 SURFACE OWNER: BETTY JANE SCHAFER ACREAGE: ±205.06  
 OIL & GAS ROYALTY OWNER: BETTY JANE SCHAFER ACREAGE: ±205.06  
 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: 6,170 TVD 21,358 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY  
 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200  
 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508



<b>LEGEND:</b>	— SURVEYED BOUNDARY	REVISIONS:	DATE: 11-26-2019
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT		
⊙ EXISTING / PRODUCING WELLHEAD	— LEASE BOUNDARY		
LPL* LANDING POINT LOCATION	— PROPOSED PATH		
⊙ EXISTING WATER WELL			DRAWN BY: N. MANO
⊙ EXISTING SPRING			SCALE: 1" = 3000'
			DRAWING NO:
			WELL LOCATION PLAT

**JACKSON SURVEYING  
INC.**

2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	BETTY JANE SCHAFFER (S)/(R)	12-9-22
TRACT	SURFACE OWNER	TAX PARCEL
2	CHARLES B. FISHER & CARLA S. FISHER (S)	12-9-20
3	CONSOLIDATION COAL COMPANY/MURRAY ENERGY (S)	12-9-22.2
4	PATRICIA A. FISH & FREDERICK W. FISH (S)	12-10-1.2
5	CALVIN C. MERINAR (S)	12-10-7
6	ECO-VRINDABAN, INC. (S)	15-1-2
7	DEBRA RAE BAUER AND WILLIAM E. WHITE, HER HUSBAND, AS JOINT TENANTS WITH THE RIGHT OF SURVIVORSHIP(S)	15-1-2.2
8	ECO-VRINDABAN, INC. (S)	15-1-4
9	KENNETH L. MERINAR ET AL (S)	12-10-9
10	THOMAS LORENCE & SILVIA LAU (S)	15-1-5
11	KENNETH L. MERINAR ET AL (S)	15-1-6.2
12	KENNETH L. MERINAR ET AL (S)	15-1-6.3
13	ECO-VRINDABAN, INC. (S)	15-1-6
14	TATIA JOSEPHINE ROSE (S)	15-1-19
15	ISKCON NEW VRINDABAN, INC. (S)	15-1-16
16	ELICIA N. HELLER (S)	15-2-3.9
17	ECO-VRINDABAN, INC. (S)	15-2-3.5
18	ISKCON NEW VRINDABAN, INC. (S)	15-2-5



ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	BETTY JANE SCHAFFER	12-9-23
B	BETTY JANE SCHAFFER	12-9-22.1
C	BETTY JANE SCHAFFER	12-9-24
D	MILDRED LOUISE BLACK	13-8-2.1
E	JOHN ALVIN GRAY	13-3-14
F	JOHN ALVIN GRAY	13-3-13
G	JOHN ALVIN GRAY	12-9-21
H	PIKEWOOD ENERGY CORP	12-9-10
I	JOHN ALVIN GRAY	12-9-11
J	JAMES MARTIN MERINAR ET UX	12-9-15.1
K	CALVIN C. MERINAR	12-9-15
L	CALVIN C. MERINAR	12-9-19
M	CALVIN C. MERINAR	12-11-1
N	CHARLES W. CLAYTON ET AL	12-11-2
O	APP MINERALS LLC, A DELAWARE LIMITED LIABILITY COMPANY	12-11-3
P	DOUGLAS FINTEL	15-1-2.1
Q	GLENN M. HICKEY	12-10-8
R	BETTY HICKEY; JAMES HICKEY AND BETTY HICKEY, HUSBAND AND WIFE; AND JEFFREY T. MERINAR	12-10-8.2
S	GLENN M. HICKEY; STANLEY L. MERINAR AND DOROTHY MERINAR, HUSBAND AND WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP; AS TENANTS IN COMMON	15-1-6.1
T	GLEN M. HICKEY	15-1-7
U	ISKCON NEW VRINDABAN, INC.	15-1-9
V	ISKCON NEW VRINDABAN, INC.	15-1-8
W	TATIA JOSEPHINE ROSE	15-1-10
X	JEREMY ALAN PRETTYMAN	15-1-19.1
Y	ELEANORE BROWN	15-1-11
Z	ISKCON NEW VRINDABAN, INC.	15-1-16.2
AA	ISKCON NEW VRINDABAN, INC.	15-1-12
BB	ISKCON NEW VRINDABAN, INC.	15-1-15
CC	ISKCON NEW VRINDABAN, INC.	15-1-14
DD	SARA JO ANDERSON	15-2-4
EE	ISKCON NEW VRINDABAN, INC.	15-2-3.6
FF	ISKCON NEW VRINDABAN, INC.	15-1-16.1
GG	ISKCON NEW VRINDABAN, INC.	15-1-17
HH	ISKCON NEW VRINDABAN, INC.	15-1-18
II	JOHN H. MOWEN, JR.	15-1-18.1
JJ	ISKCON NEW VRINDABAN, INC.	15-1-18.2
KK	ISKCON NEW VRINDABAN, INC.	15-1-16.3

REVISIONS:	COMPANY:		 	
	OPERATOR'S	BETTY SCHAFFER MSH		API # 02298
	WELL #:	10H	47-051- <i>HGA</i>	DRAWN BY: N. MANO
	DISTRICT:	SAND HILL	COUNTY:	MARSHALL
			STATE:	WV
				SCALE: N/A
				DRAWING NO:
				WELL LOCATION PLAT 2

**JACKSON SURVEYING  
INC.**

2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
LL	ISKCON NEW VRINDABAN, INC.	15-2-3.3
MM	ANDY FRAENKEL & RUTH FRAENKEL	15-2-3.4
NN	ANDY FRAENKEL & RUTH FRAENKEL	15-2-3.2
OO	ANDY FRAENKEL & RUTH FRAENKEL	15-2-3.7
PP	VRINDA D. CLOTHIER ET AL	15-2-12.11
QQ	JESSE S. HANSON & JOY HANSON	15-2-12.13
RR	GREGORY D. CARLSON & MADRI CARLSON	15-2-12.12
SS	TARAN SINGH & SABITREE S. SINGH	15-2-12
TT	TARAN SINGH & SABITREE S. SINGH	15-2-5.2
UU	L. ONE LLC	15-2-5.6
VV	LEON LANE	15-2-5.8
WW	SPIRIT GARDEN CHARITABLE FOUNDATION	15-2-5.9
XX	ADITYA SATSANGI & KONISHA SATSANGI	15-2-5.4
YY	GIRIDHARI D. WEBER	15-2-5.5
ZZ	CARLOS ORDONEZ	15-2-5.3
AAA	RAMESH PATEL & VINA PATEL	15-2-5.7
BBB	DIAN F. ALPERT	15-2-5.1
CCC	SHAM SHADEEN GAFFOOR AND VIDYA RAMKAREE, HUSBAND AND WIFE, AS JOINT TENANTS WITH THE RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON	15-2-3.8
DDD	ISKCON NEW VRINDABAN, INC.	15-2-3
EEE	ISKCON NEW VRINDABAN, INC.	15-2-2
FFF	ECO-VRINDABAN, INC.	15-1-20
GGG	STATE OF W VA THE CONSERVATION COMMISSION	15-1-5.1
HHH	GERALD H. ROBSON & THEODORA J. ROBSON	15-1-4.8
III	TERRY RAY SHELDON	15-1-4.12
JJJ	PHILLIP E. NEWBERRY	15-1-4.9
KKK	PHILLIP E. NEWBERRY	15-1-4.16
LLL	PURE GHEE, INC.	15-1-4.15
MMM	ECO-VRINDABAN, INC.	15-1-4.11
NNN	STATE OF W VA THE CONSERVATION COMMISSION	15-1-4.1
OOO	ROBERT D. VINCILIONE ET UX	15-1-4.14
PPP	MELINDA DAWN WISELKA	15-1-4.3
QQQ	BRENDA J. HARRIS; DEBORAH S. WHITLATCH; JAMES W. PLANTS; AND PLANTS FAMILY IRREVOCABLE TRUST, DATED OCTOBER 2, 2008	13-9-18
RRR	TINA HERCULES	15-1-4.2
SSS	JOHN T. LYNSKEY	13-9-17
TTT	JOHN T. LYNSKEY, ET UX	13-9-16.1
UUU	ECO-VRINDABAN, INC.	13-9A-29
VVV	PHILIP C. WILSON & NANCY L. WILSON	15-1-4.6
WWW	PHILIP C. WILSON & NANCY L. WILSON	15-1-4.13
XXX	PHILIP C. WILSON & NANCY L. WILSON	15-1-4.4
YYY	PHILIP C. WILSON & NANCY L. WILSON	15-1-4.7
ZZZ	CHARLOTTE RAE WILSON CHANEY; DAVID MATTHEW DAWSON; REBECCA SUE WILSON WALTERS; AND PHILIP CHARLES WILSON	12-10-4.2
AAAA	ECO-VRINDABAN, INC.	15-1-3
BBBB	PHILIP C. WILSON, ET UX	12-10-4.3
CCCC	RUSSELL ROBERT WILSON II, ET AL	12-10-4
DDDD	MEADOW LAKE CLUB CO.	12-10-2
EEEE	CONSOLIDATION COAL COMPANY/MURRAY ENERGY	12-10-1.1
FFFF	CONSOLIDATION COAL COMPANY/MURRAY ENERGY	12-10-1.3
GGGG	CONSOLIDATION COAL COMPANY/MURRAY ENERGY	13-8-3.2
HHHH	LUCILLE M. HOGG - LIFE ESTATE	13-8-3
IIII	JEWELL L. ROMAN	12-10-01
JJJJ	LUCILLE M. HOGG - LIFE ESTATE	13-8-4

REVISIONS:	COMPANY:	 	
	OPERATOR'S	BETTY SCHAFER MSH	API # 02298
	WELL #:	10H	47-051- HGA
	DISTRICT:	SAND HILL	COUNTY: MARSHALL
			STATE: WV
			DATE: 11-26-2019
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 3