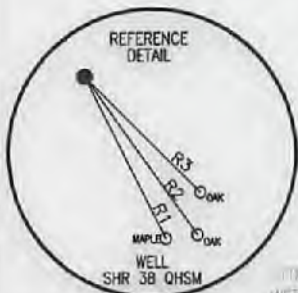


LINE	BEARING	DISTANCE
R1	S 26°29'54" E	237.39'
R2	S 35°24'02" E	254.66'
R3	S 44°58'14" E	214.61'
R4	N 75°46'14" W	1089.21'
R5	S 84°07'23" W	849.74'
R6	S 40°41'36" E	1040.41'

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 SHL is located on topo map 1,230 feet south of Latitude: 39°22'30"



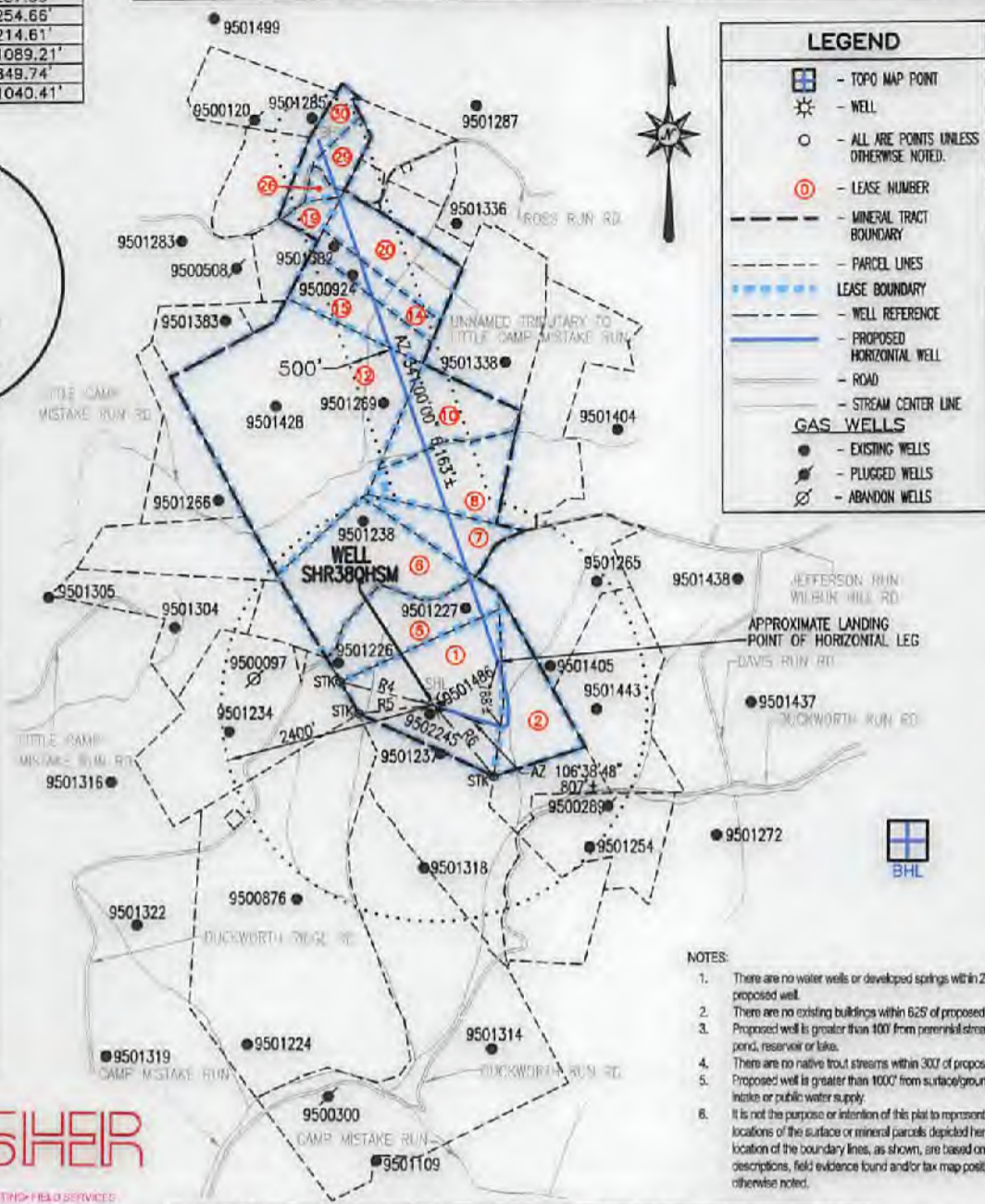
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 E:514187.40
 NAD83, WV NORTH
 N:320274.010
 E:1591026.502
 LAT/LON DATUM-NAD83
 LAT:39°22'17.840"
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APPROX. LANDING POINT
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BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
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 NAD83, WV NORTH
 N:326599.492
 E:1589740.195
 LAT/LON DATUM-NAD83
 LAT:39°23'20.164"
 LON:80°50'24.833"

THRASHER

CIVIL/ENVIRONMENTAL/COMBUSTION/FIELD SERVICES
 808 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26305
 PHONE (304) 224-4100 FAX (304) 624-7691

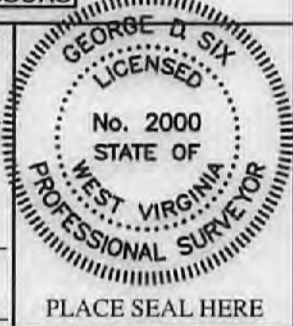


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 SHL is located on topo map 554 feet west of Longitude: 80°50'00"

SEE PAGE 2 & 3 FOR SURFACE OWNERS AND LESSORS

FILE #: SHR 38 QHSM
 DRAWING #: SHR 38 QHSM
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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 THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 Signed: George D. Six
 R.P.E.: _____ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

DATE: JULY 3, 2019
 OPERATOR'S WELL #: SHR 38 QHSM
 API WELL #: 47 95 02652 WVA
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: HEADWATERS MIDDLE ISLAND CREEK ELEVATION: 1012±
 COUNTY/DISTRICT: TYLER / CENTERVILLE QUADRANGLE: WEST UNION, WV 7.5'
 SURFACE OWNER: JAMES E. ASH ET AL ACREAGE: 111±
 OIL & GAS ROYALTY OWNER: JAMES E. ASH ET AL ACREAGE: 363.118±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,480± TMD: 13,181±
 WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT ANTHONY KENDZIORA
 Address 1000 CONSOL ENERGY DRIVE Address 1000 CONSOL ENERGY DRIVE
 City CANONSBURG State PA Zip Code 15317 City CANONSBURG State PA Zip Code 15317

SHR 38 QHSM

PAGE 2 OF 3

	SURFACE OWNER	LESSOR	DIST-TM/PAR
1 5	JAMES E. ASH ET AL	VERNA O. ASH, JAMES E. ASH AND THELMA B. ASH, BESSIE HAUGHT AND HAROLD WARNER ERNEST G. SECKMAN AND O. JOANNE SECKMAN RALPH E. PHILLIPS AND VELINDA PHILLIPS H/W	P/O 1-16/19
2	JAMES E. ASH ET AL	VERNA O. ASH, JAMES E. ASH AND THELMA B. ASH, BESSIE HAUGHT AND HAROLD WARNER ERNEST G. SECKMAN AND O. JOANNE SECKMAN RALPH E. PHILLIPS AND VELINDA PHILLIPS H/W MARTHA SUE MUZIO, F/K/A MARTHA SUE LOCOCO MARY LYNNE SLATTERY, F/K/A MARY LYNNE LOCOCO RITA G. JARVIS JO ELLEN HARPER DAY WILLIAM PAUL HARPER MARION R. BACHELOR AND GLORIA JEAN BACHELOR, H/W BERDINA ROSE AND NORMAN W. ROSE, W/H DAVID PAUL LOCOCO ELIZABETH FLORENCE LOCOCO MARY LEE LILLY MICHELLE LOCOCO BUSHMIRE, F/K/A MICHELLE LUCRETIA BUSHMIRE DONALD VINCENT LOCOCO MARGO KIEHL JOHN MICHAEL LEONIAN JOHN FULTON LEONIAN JEFFREY TODD HEFLIN JASON S. HEFLIN AND JESSICA L. HEFLIN, H/W NILA ASH SAYLOR REVOCABLE TRUST, BY JOSEPH F. SILEK, JR., TRUSTEE PHILLIP LEONIAN, A/K/A PHILLIP MARSHALL LEONIAN ROBERT LEONIAN A/K/A JOSEPH ROBERT LEONIAN BAILEY ANN MILLS ARMEN LEONIAN, A/K/A ARMEN LANHAM LEONIAN THERESA LEE ROBERTSON ROSE MARIE VANHEUVELN COMMONWEALTH ENERGY, INC. A/K/A COMMONWEALTH ENERGY	P/O 1-16/19
6	DIANA L. BOGER	EDNA DILLON SAMUEL DAVID DILLON AND DONNA L. DILLON, H/W HOWARD D. SPURLOCK AND MARIAN E. SPURLOCK, H/W EDITH M. DOAK PEARL G. MCINTYRE PAUL MCINTYRE KERMIT MCINTYRE AND RUTH MCINTYRE, H/W SHEILA L. GUY EDITH W. MCINTYRE	P/O 1-16/18
7	WILLIAM D. & MARY C. DANIELS	GARY W. AND DEBRA J. DAVIS RUBY N. SPENCER AND FRED A. NICHOLS AND LAURA L. NICHOLS, H/W IRO NICHOLS MONA WRIGHT RALPH SHERWOOD WANDA SCHAUER CONRAD COSTLOW	1-16/2.1
8	WILLIAM D. & MARY C. DANIELS	WILLIAM N. DANIELS AND MARY C. DANIELS, H/W	P/O 1-16/2
10	ERIC A. SNYDER	BOUNTY MINERALS, LLC	1-16/3
12	KENNETH G. WRIGHT KENNETH G. WRIGHT, TRUSTEE	FRANKLIN L. MERCER AND RUTH L. MERCER, H/W AND FRANKLIN L. MERCER, ATTORNEY-IN-FACT FOR ROGER N. MERCER AND GLORIA MERCER, H/W DELORES ROSSI LUTHER ROGERS AND ANITA ROGERS, H/W MARIE MERCER HARLEY EDWIN SPENCER AND ALICE RUTH SPENCER, H/W THE KENNETH G. WRIGHT TRUST, DATED 12/21/2010, BY KENNETH G. WRIGHT, TRUSTEE	1-16/1
14	KENNETH G. WRIGHT TRUST C/O KENNETH G. WRIGHT	FRANKLIN L. MERCER AND RUTH L. MERCER, H/W AND FRANKLIN L. MERCER, ATTORNEY-IN-FACT FOR ROGER N. MERCER AND GLORIA MERCER, H/W DELORES ROSSI LUTHER ROGERS AND ANITA ROGERS, H/W MARIE MERCER HARLEY EDWIN SPENCER AND ALICE RUTH SPENCER, H/W FORREST JENKINS AND EVA JENKINS, H/W, FOREST JENKINS, ATTORNEY-IN-FACT FOR THE FOLLOWING: CARL JENKINS, BETTY JENKINS, STELLA DEAN JENKINS, ZETTA ASH, ALICE HAUGHT AND THOMAS HAUGHT ZETTA F. ASH CARL JENKINS AND BETTY JENKINS, H/W STELLA DEAN JENKINS ALICE HAUGHT ALFRED COTTRILL, INDIVIDUALLY AND AS ATTORNEY-IN- FACT FOR RENNA FOX BARBARA BALLOU BAKER KAYVONNE PASULKA CHARLES H. BALLOU AND LOIS M. BALLOU, H/W STEVEN E. BALLOU AND LINDA M. BALLOU, H/W	1-13/13.5

SURFACE HOLE LOCATION (SHL)

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NAD83, WV NORTH
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N:320772.204
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E:513763.36
NAD83, WV NORTH
N:326599.492
E:1589740.195
LAT/LON DATUM-NAD83
LAT:39°23'20.164"
LONG:80°50'24.633"



JULY 3, 2019

API WELL #: 47 95 02452440
 STATE COUNTY PERMIT

SHR 38 QHSM

PAGE 3 OF 3

	SURFACE OWNER	LESSOR	DIST-TM/PAR
15	KENNETH G. WRIGHT KENNETH G. WRIGHT, TRUSTEE	FRANKLIN L. MERCER AND RUTH L. MERCER, H/W AND FRANKLIN L. MERCER, ATTORNEY-IN-FACT FOR ROGER N. MERCER AND GLORIA MERCER, H/W DELORES ROSSI LUTHER ROGERS AND ANITA ROGERS, H/W MARIE MERCER HARLEY EDWIN SPENCER AND ALICE RUTH SPENCER, H/W FORREST JENKINS AND EVA JENKINS, H/W, FOREST JENKINS, ATTORNEY-IN-FACT FOR THE FOLLOWING: CARL JENKINS, BETTY JENKINS, STELLA DEAN JENKINS, ZETTA ASH, ALICE HAUGHT AND THOMAS HAUGHT ZETTA F. ASH CARL JENKINS AND BETTY JENKINS, H/W STELLA DEAN JENKINS ALICE HAUGHT ALFRED COTTRILL, INDIVIDUALLY AND AS ATTORNEY-IN-FACT FOR RENNA FOX BARBARA BALLOU BAKER KAYVONNE PASULKA CHARLES H. BALLOU AND LOIS M. BALLOU, H/W STEVEN E. BALLOU AND LINDA M. BALLOU, H/W	1-13/13.4
19	PATRICK D. & DONNA S. LIPSCOMB	ROBERT L. UNDERWOOD AND VICTORIA M. UNDERWOOD, H/W	1-13/12.3
20	MATTHEW ASH	FRANKLIN L. MERCER & RUTH L. MERCER, H/W AND FRANKLIN L. MERCER, ATTORNEY-IN-FACT FOR ROGER N. MERCER AND GLORIA MERCER, H/W DELORES ROSSI LUTHER ROGERS AND ANITA ROGERS, H/W MARIE MERCER HARLEY EDWIN SPENCER AND ALICE RUTH SPENCE, H/W FORREST JENKINS AND EVA JENKINS, H/W, FORREST JENKINS, ATTORNEY-IN-FACT FOR THE FOLLOWING: CARL JENKINS, BETTY JENKINS, STELLA DEAN JENKINS, ZETTA ASH, ALICE HAUGHT AND THOMAS HAUGHT ZETTA F. ASH CARL JENKINS AND BETTY JENKINS, H/W STELLA DEAN JENKINS ALICE HAUGHT ALFRED COTTRILL, INDIVIDUALLY AND AS ATTORNEY-IN-FACT FOR RENNA FOX BARBARA BALLOU BAKER KAYVONNE PASULKA CHARLES H. BALLOU AND LOIS M. BALLOU, H/W STEVEN E. BALLOU AND LINDA M. BALLOU, H/W	1-13/13
26	WILLIAM B. AND JULIE A. MARKLE	ROBERT L. UNDERWOOD AND VICTORIA M. UNDERWOOD, H/W	1-13/12.2
29	ONA M. QUELLHORST	ROBERT L. UNDERWOOD AND VICTORIA M. UNDERWOOD, H/W	P/O 1-13/12
	THOMAS VAN DE BUNT		P/O 1-13/12.2
30	THOMAS VAN DE BUNT	JUDY S. WETZEL, FKA JUDY THACKER MARY FRANCES CARPENTER JANICE J. WAGENER, FKA, JANICE L. MAY ROY DEAN ASH LARRY J. MCCAW AND JOETTE B. MCCAW, H/W JAMES F. BRAMHALL KITTY MIESIAK, F/K/A KITTY BOND BETTY E. MORRISON COLLEEN J. PATRICK EVELYN J. LINVILLE MARYLYN M. SMITH, F/K/A, MARYLYN J. SMITH MARC P. WISE MICHAEL D. WISE	P/O 1-13/12.1

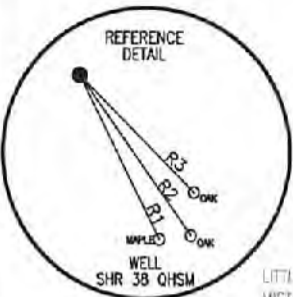
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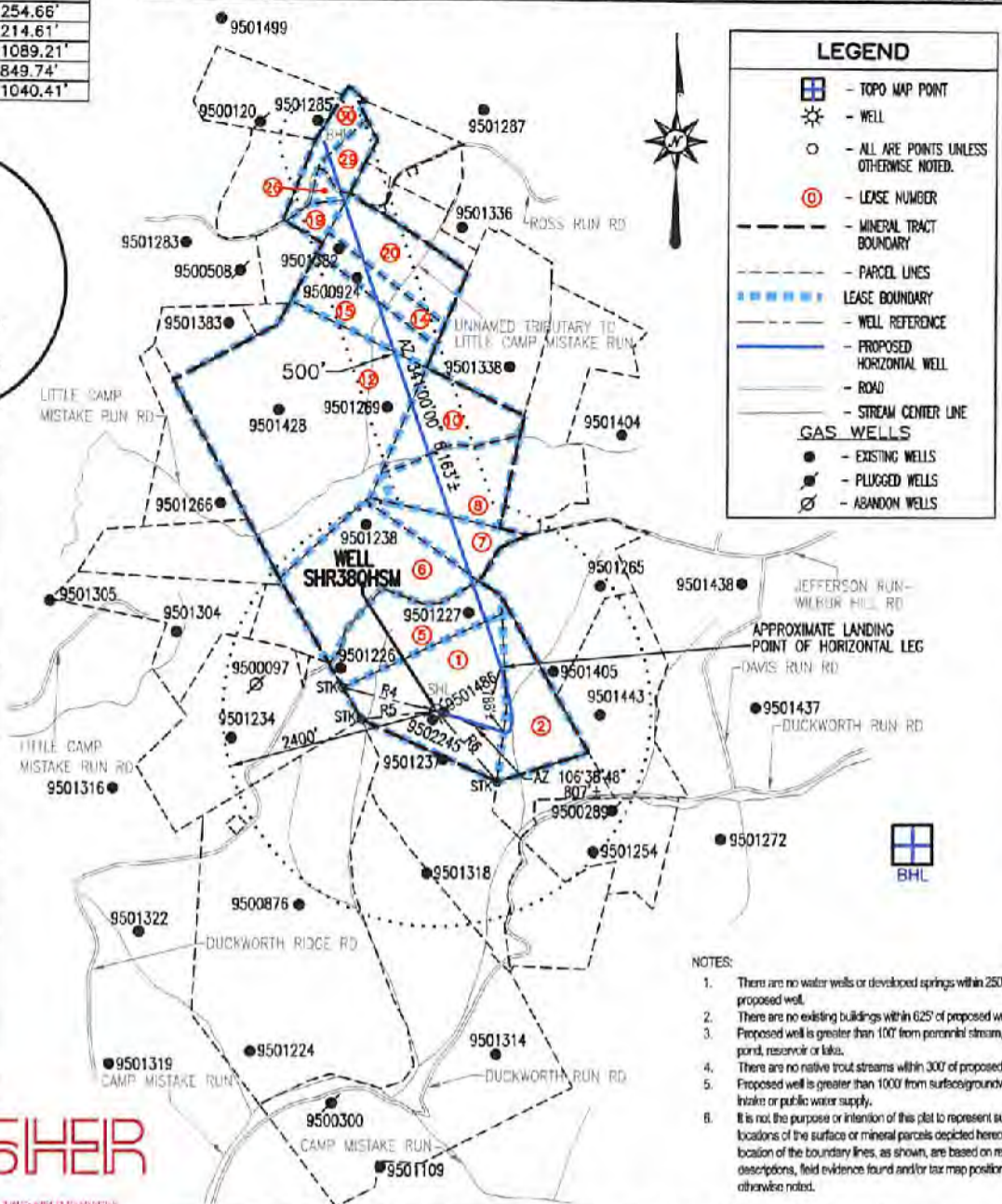
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LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- LEASE NUMBER
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- LEASE BOUNDARY
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE

GAS WELLS

- EXISTING WELLS
- PLUGGED WELLS
- ABANDON WELLS

BHL is located on topo map 1,934 feet west of Longitude: 80°50'00"
 SHL is located on topo map 554 feet west of Longitude: 80°50'00"

- NOTES:
- There are no water wells or developed springs within 250' of proposed well.
 - There are no existing buildings within 625' of proposed well.
 - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 - There are no native trout streams within 300' of proposed well.
 - Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 - It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

THRASHER

ENVIRONMENTAL CONSULTING FIELD SERVICES
 800 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26030
 PHONE (304) 624-4106 FAX (304) 624-7531

SEE PAGE 2 & 3 FOR SURFACE OWNERS AND LESSORS

FILE #: SHR 38 QHSM
 DRAWING #: SHR 38 QHSM
 SCALE: 1" = 2000'
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 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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Signed: George A. Six
 R.P.E.: _____ L.L.S.: P.S. No. 2000

GEORGE A. SIX
 LICENSED
 No. 2000
 STATE OF WEST VIRGINIA
 PROFESSIONAL SURVEYOR

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

DATE: JULY 3, 2019
 OPERATOR'S WELL #: SHR 38 QHSM
 API WELL #: 47 95 02652 46A
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: HEADWATERS MIDDLE ISLAND CREEK ELEVATION: 1012'±
 COUNTY/DISTRICT: TYLER / CENTERVILLE QUADRANGLE: WEST UNION, WV 7.5'
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DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,480'± TMD: 13,181'±
 WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT ANTHONY KENDZIORA
 Address 1000 CONSOL ENERGY DRIVE Address 1000 CONSOL ENERGY DRIVE
 City CANONSBURG State PA Zip Code 15317 City CANONSBURG State PA Zip Code 15317