

LINE	BEARING	DISTANCE
R1	S 33°14'26" E	139.71'
R2	S 46°32'47" E	162.81'
R3	S 65°19'03" E	134.64'
R4	N 71°29'16" W	1144.34'
R5	S 57°37'41" W	789.15'
R6	S 43°06'47" E	949.64'

BHL is located on topo map 10,513 feet south of Latitude: 39° 22' 30"
 SHL is located on topo map 1,325 feet south of Latitude: 39° 22' 30"

AS DRILLED PLAT

NOTES:

1. There are no water wells or developed springs within 250' of proposed well.
2. There are no existing buildings within 625' of proposed well.
3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
4. There are no native trout streams within 300' of proposed well.
5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
6. 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.

AS-DRILLED SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83
 N:4358001.17
 E:514196.82
 NAD83, WV NORTH
 N:320178.409
 E:1591055.835
 LAT/LON DATUM-NAD83
 LAT:39°22'16.899"
 LON:80°50'06.662"

PERMITTED SURFACE HOLE LOCATION (SHL)
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PERMITTED APPROX. LANDING POINT
 UTM 17-NAD83
 N:4358096.53
 E:514426.82
 NAD83, WV NORTH
 N:320478.716
 E:1591815.799
 LAT/LON DATUM-NAD83
 LAT:39°22'19.979"
 LON:80°49'57.042"

PERMITTED BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
 N:4355204.13
 E:515477.05
 NAD83, WV NORTH
 N:310929.744
 E:1595103.775
 LAT/LON DATUM-NAD83
 LAT:39°20'45.947"
 LON:80°49'13.047"

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 UTM 17-NAD83
 N:4358096.53
 E:514426.82
 NAD83, WV NORTH
 N:320478.716
 E:1591815.799
 LAT/LON DATUM-NAD83
 LAT:39°22'19.928"
 LON:80°49'57.024"

LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- LEASE NUMBER
- MINERAL TRACT BOUNDARY
- PARCEL BOUNDARY
- LEASE BOUNDARY
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- AS-DRILLED
- ROAD
- STREAM CENTER LINE
- GAS WELLS
- EXISTING WELLS
- PLUGGED WELLS
- ABANDON WELLS

BHL is located on topo map 8,122 feet west of Longitude: 80° 47' 30"
 SHL is located on topo map 523 feet west of Longitude: 80° 50' 00"

THRASHER

CIVIL, ENVIRONMENTAL, CONSULTING, FIELD SERVICES
 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
 PHONE: (304) 824-1084 FAX: (304) 824-7821

SEE PAGE 2 & 3 FOR SURFACE OWNERS AND LESSORS

FILE #: SHR 38 HHSM-AS DRILLED
 DRAWING #: SHR 38 HHSM-AS DRILLED
 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

GEORGE D. 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 22, 2019
 OPERATOR'S WELL #: SHR 38 HHSM-AS DRILLED
 API WELL #: 47 95 02572
 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: 702.114±

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: 17,168±

WELL OPERATOR: CNX GAS COMPANY LLC DESIGNATED AGENT: CHRIS TURNER
 Address: 1000 CONSOL ENERGY DRIVE Address: 1 DOMINION DR.
 City: CANONSBURG State: PA Zip Code: 15317 City: JANE LEW State: WV Zip Code: 26378



AS DRILLED PLAT

SHR 38 HHSM PAGE 2 OF 3

	SURFACE OWNER	LESSOR	DIST-TM/PAR
1	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. SILEX, 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 VANHEUVLEN COMMONWEALTH ENERGY, INC. A/K/A COMMONWEALTH ENERGY	P/O 1-16/19
3	JOHN R. ANDERS II	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 JASON S. HEFLIN AND JESSICA L. HEFLIN, H/W NILA ASH SAYLOR REVOCABLE TRUST, BY JOSEPH F. SILEX, JR., TRUSTEE PHILLIP LEONIAN, A/K/A PHILLIP MARSHALL LEONIAN JUDITH ROSANNE WIGAL AND JAMES R. WIGAL, W/H ROBERT LEONIAN A/K/A JOSEPH ROBERT LEONIAN BAILEY ANN MILLS ARMEN LEONIAN, A/K/A ARMEN LANHAM LEONIAN DONALD L. HEADLEY THERESA LEE ROBERTSON JAMES MATTERN AND LINDA K. MATTERN, H/W ROSE MARIE VANHEUVLEN COMMONWEALTH ENERGY, INC. A/K/A COMMONWEALTH ENERGY JOHN R. ANDERS WILLIAM H. ASH AND NANCY M. ASH, H/W, ET AL	1-16/21.1
4	RICHARD H. METCALF JOHN R. ANDERS II	JOHN MICHAEL LEONIAN JOSEPH ROBERT LEONIAN MARGO L. KIEHL AND CHARLES F. KIEHL, W/H BERDINA ROSE AND NORMAN W. ROSE, W/H PHILLIP LEONIAN, A/K/A PHILLIP MARSHALL LEONIAN MARION RAY BACHELOR, AKA MARION R. BACHELOR AND GLORIA JEAN BACHELOR RITA G. JARVIS MIKE ROSS, INC. I. L. MORRIS JO ELLEN HARPER DAY MARY LEE LILLY ARMEN LEONIAN, AKA ARMEN LEANHAM LEONIAN JOHN FULTON LEONIAN NILA ASH SAYLOR REVOCABLE TRUST, BY JOSEPH F. SILEX, JR. BAILEY ANN MILLS WILLIAM PAUL HARPER DAVID PAUL LOCOCO MARY LYNNE SLATTERY, FKA MARY LYNNE LOCOCO DONALD VINCENT LOCOCO ROSE MARIE VANHEUVLEN THERESA LEE ROBERTSON MARTHA SUE MUZIO, F/K/A MARTHA SUE LOCOCO MICHELLE LOCOCO BUSHMIRE, FKA MICHELLE LUCRETIA BUSHMIRE ELIZABETH FLORENCE LOCOCO RALPH E. PHILLIPS AND VELINDA PHILLIPS, H/W BRC APPALACHAIN MINERALS I, LLC BRC APPALACHAIN MINERALS I, LLC	1-16/17 & 1-16/21 1-16/17 & 1-16/21
5	RICHARD H. METCALF JOHN R. ANDERS II	JOHN MICHAEL LEONIAN JOSEPH ROBERT LEONIAN MARGO L. KIEHL AND CHARLES F. KIEHL, W/H BERDINA ROSE AND NORMAN W. ROSE, W/H PHILLIP LEONIAN, A/K/A PHILLIP MARSHALL LEONIAN MARION RAY BACHELOR, AKA MARION R. BACHELOR AND GLORIA JEAN BACHELOR RITA G. JARVIS MIKE ROSS, INC. I. L. MORRIS JO ELLEN HARPER DAY MARY LEE LILLY ARMEN LEONIAN, AKA ARMEN LEANHAM LEONIAN JOHN FULTON LEONIAN NILA ASH SAYLOR REVOCABLE TRUST, BY JOSEPH F. SILEX, JR. BAILEY ANN MILLS WILLIAM PAUL HARPER DAVID PAUL LOCOCO MARY LYNNE SLATTERY, FKA MARY LYNNE LOCOCO DONALD VINCENT LOCOCO ROSE MARIE VANHEUVLEN THERESA LEE ROBERTSON MARTHA SUE MUZIO, F/K/A MARTHA SUE LOCOCO MICHELLE LOCOCO BUSHMIRE, FKA MICHELLE LUCRETIA BUSHMIRE ELIZABETH FLORENCE LOCOCO RALPH E. PHILLIPS AND VELINDA PHILLIPS, H/W BRC APPALACHAIN MINERALS I, LLC BRC APPALACHAIN MINERALS I, LLC	1-16/17 & 1-16/21

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E:514422.48
N:320473.778
E:1591801.4593
LAT:39°22'19.928"
LON:80°49'57.224"

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E:515477.32
NAD83, WV NORTH
N:310932.684
E:1595104.700
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LAT:39°20'46.117"
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API WELL #: 47 95 02572
STATE COUNTY PERMIT



CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES
800 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
PHONE (304) 624-1084 FAX (304) 624-7831

JULY 22, 2019

SHR 38 HHSM

PAGE 3 OF 3

AS DRILLED PLAT

	SURFACE OWNER	LESSOR	DIST-TM/PAR
6	CHRIS BAUM & LYNN K. HERSTINE JR.	ORA E. PRATT AND IRENE PRATT, H/W, THURMAN PRATT AND ANNA PRATT, H/W BELUAH C. CAYTON AND ASHBY CAYTON	1-16/23
7	D. RALPH THACKER & CARLISLE J. MAURICE JR.	CHARLES W. HENDERSON AND DOROTHY M. HENDERSON, H/W AND CHARLES W. HENDERSON, POWER OF ATTORNEY FOR THE A. I. DOAK HEIRS JOHN A. CONKLIN AND JEAN CONKLIN, H/W GEORGE B. CONKLIN AND BETTY M. CONKLIN, H/W BETTY L. CONKLIN ROBERT LEE REED LEWIS H. REED AND CAROL J. REED, H/W KATHY PRANGER VIRGINIA O'REAR AND RALPH O'REAR, W/H ROBERT H. MELVIN BETTY L. MELVIN MARY S. LARTZ AND WILLIAM LARTZ, W/H LILLIAN CRABILL AND WILLIAM CRABILL, W/H MELISSA COLL ROBERT BARTHOLOMEW AND BARBARA BARTHOLOMEW, H/W PHILLIP L. MELVIN JOANNE GREENMAN AND GERALD GREENMAN, H/W	1-16/26
8	PEARLIE DAVIS	LINDA C. BRITTON STEVEN BRITTON ALFRED BRITTON, ET AL BRIAN BRITTON, AKA, BRYAN L. BRITTON AND ANNETTE BRITTON, H/W	1-16/25
9	STEVEN E. MALICKI JR. FRED M. DOTSON JR. KAREN DOTSON KEVIN DOTSON	PAUL W. HYLBERT AND CHARLOTTE J. HYLBERT, H/W	1-18/1
10	STEVEN E. MALICKI JR.		1-18/1.1
11	ELIZABETH C. FISHBECK	CLARENCE W. HYLBERT AND CHRISTINE HYLBERT, H/W	1-18/4
12	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	N/A
13	RALPH P. MCCUTCHAN & SHEILA R. CHIPPS	MARY M. WELCH	1-18/17
14	STEVEN R. & SHAWNA LEA	MRS. BELVA WLCH CLARENCE W. MUTSCHELKNAUS, SR. AND CLARENCE W. MUTSCHELKNAUS, JR. INDIVIDUALLY AND CLARENCE W. MUTSCHELKNAUS, SR. AND CLARENCE W. ALLEN E. SMITH A/K/A ALLEN SMITH DONALD C. KESTERSON ROSEMARY HAUGHT KENNETH R. MASON AND JENNIFER L. MASON, H/W ESTELLA GOODFELLOW	
15	RALPH MCCUTCHAN II CHIPPS REVOCABLE LIVING TRUST 2004	PAUL STRICKLING EARL STRICKLING AND RUTH G. STRICKLING, H/W JOSIE L. STRICKLING JOHN B. STRICKLING, JR. AND PEGGY STRICKLING, H/W	8-3/3

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