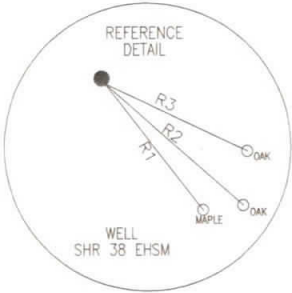


SHR 38 EHSM

PAGE 2 OF 4

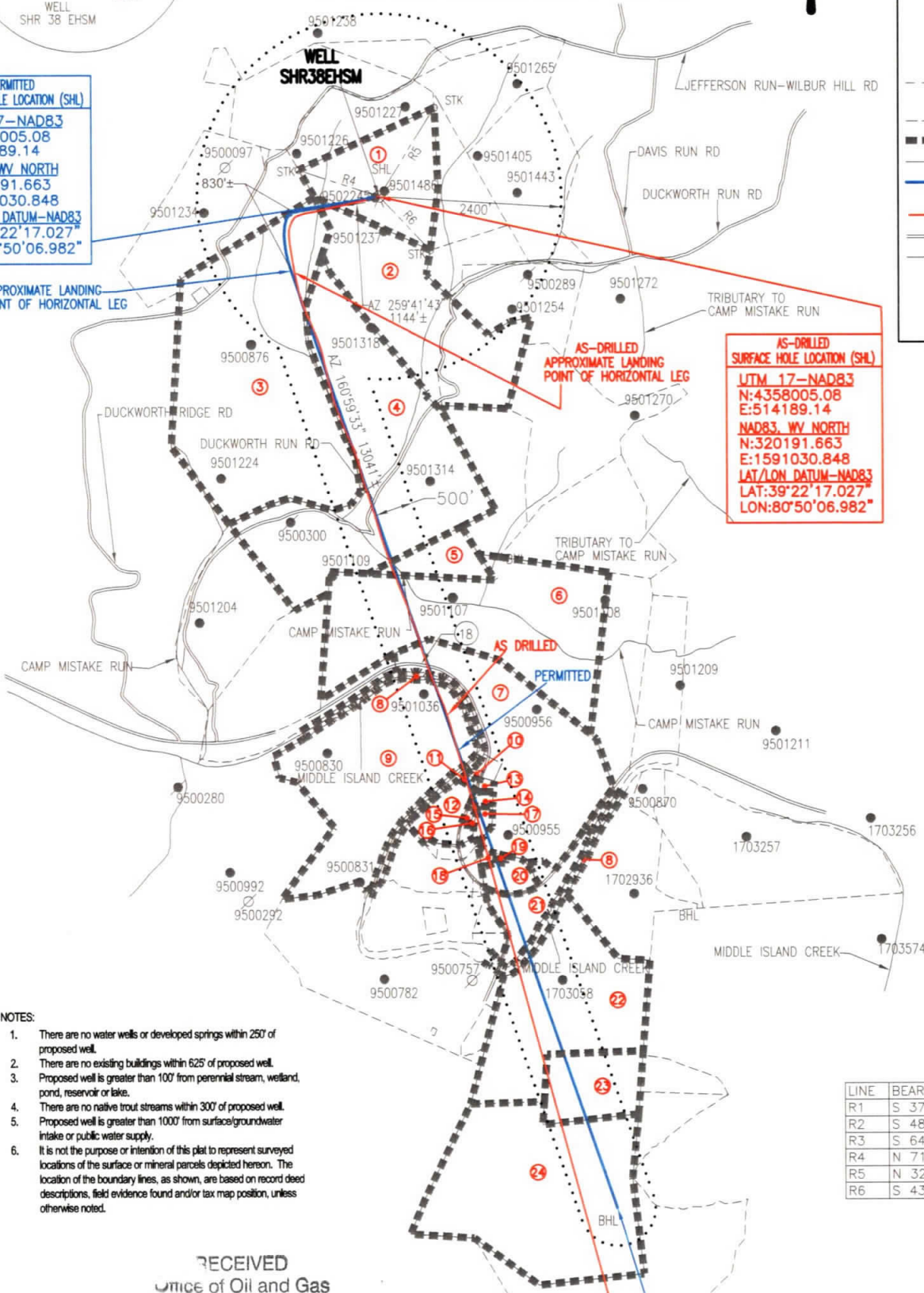
AS DRILLED PLAT



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
	- AS-DRILLED
	- ROAD
	- STREAM CENTER LINE
GAS WELLS	
	- EXISTING WELLS
	- PLUGGED WELLS
	- ABANDON WELLS

PERMITTED SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83
 N:4358005.08
 E:514189.14
 NAD83, WV NORTH
 N:320191.663
 E:1591030.848
 LAT/LON DATUM-NAD83
 LAT:39°22'17.027"
 LON:80°50'06.982"

AS-DRILLED SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83
 N:4358005.08
 E:514189.14
 NAD83, WV NORTH
 N:320191.663
 E:1591030.848
 LAT/LON DATUM-NAD83
 LAT:39°22'17.027"
 LON:80°50'06.982"



- 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.

LINE	BEARING	DISTANCE
R1	S 37°58'41" E	165.06'
R2	S 48°49'28" E	190.22'
R3	S 64°45'00" E	162.89'
R4	N 71°43'32" W	1116.44'
R5	N 32°03'26" E	1375.77'
R6	S 43°39'07" E	976.44'

RECEIVED
 Office of Oil and Gas

NOV 9 2019

AS-DRILLED APPROX. LANDING POINT
 UTM 17-NAD83
 N:4357697.13
 E:513854.23
 NAD83, WV NORTH
 N:319199.452
 E:1589914.971
 LAT/LON DATUM-NAD83
 LAT:39°22'07.057"
 LON:80°50'21.002"

PERMITTED APPROX. LANDING POINT
 UTM 17-NAD83
 N:4357702.55
 E:513839.97
 NAD83, WV NORTH
 N:319218.001
 E:1589868.452
 LAT/LON DATUM-NAD83
 LAT:39°22'07.233"
 LON:80°50'21.598"

AS-DRILLED BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
 N:4353966.72
 E:515193.90
 NAD83, WV NORTH
 N:306884.670
 E:1594106.832
 LAT/LON DATUM-NAD83
 LAT:39°20'05.966"
 LON:80°49'25.319"

PERMITTED BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
 N:4353967.77
 E:515196.62
 NAD83, WV NORTH
 N:306887.950
 E:1594115.822
 LAT/LON DATUM-NAD83
 LAT:39°20'05.999"
 LON:80°49'25.206"

API WELL #: 47 95 02570
 STATE COUNTY PERMIT

THRASHER

SEPTEMBER 17, 2019

George D. Six



CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES
 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
 PHONE (304) 624-4108 • FAX (304) 624-7831

BHL is located on topo map 14,569 feet south of Latitude: 39° 22' 30"
 SHL is located on topo map 1,313 feet south of Latitude: 39° 22' 30"

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

SEE PAGE 3 & 4 FOR SURFACE OWNERS AND LESSORS

AS DRILLED PLAT

PERMITTED SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83
 N:4358005.08
 E:514189.14
 NAD83, WV NORTH
 N:320191.663
 E:1591030.848
 LAT/LON DATUM-NAD83
 LAT:39°22'17.027"
 LON:80°50'06.982"

AS-DRILLED SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83
 N:4358005.08
 E:514189.14
 NAD83, WV NORTH
 N:320191.663
 E:1591030.848
 LAT/LON DATUM-NAD83
 LAT:39°22'17.027"
 LON:80°50'06.982"

PERMITTED APPROX. LANDING POINT
 UTM 17-NAD83
 N:4357702.55
 E:513839.97
 NAD83, WV NORTH
 N:319218.001
 E:1589868.452
 LAT/LON DATUM-NAD83
 LAT:39°22'07.233"
 LON:80°50'21.598"

AS-DRILLED APPROX. LANDING POINT
 UTM 17-NAD83
 N:4357697.13
 E:513854.23
 NAD83, WV NORTH
 N:319199.452
 E:1589914.971
 LAT/LON DATUM-NAD83
 LAT:39°22'07.057"
 LON:80°50'21.002"

PERMITTED BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
 N:4353967.77
 E:515196.62
 NAD83, WV NORTH
 N:306887.950
 E:1594115.822
 LAT/LON DATUM-NAD83
 LAT:39°20'05.999"
 LON:80°49'25.206"

AS-DRILLED BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
 N:4353966.72
 E:515193.90
 NAD83, WV NORTH
 N:306884.670
 E:1594106.832
 LAT/LON DATUM-NAD83
 LAT:39°20'05.966"
 LON:80°49'25.319"

SHL is located on topo map 9,052 feet west of Longitude: 80° 47' 30"
 SHL is located on topo map 548 feet west of Longitude: 80° 50' 00"

RECEIVED
Office of Oil and Gas

NOV 21 2019

WV Department of
Environmental Protection

THRASHER

CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES
 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
 PHONE (304) 624-4108 • FAX (304) 624-7831



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



PLACE SEAL HERE

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

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



DATE: SEPTEMBER 17, 2019
 OPERATOR'S WELL #: SHR 38 EISM AS-DRILLED
 API WELL #: 47 95 02570
 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: 1016.393±

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,480'± TMD: 20,198'±

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

SHR 38 EHSM

PAGE 3 OF 4

AS DRILLED PLAT

	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	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, AKA PHILLIP MARSHALL LEONIAN MARION RAY BACHELOR, AKA MARION R. BACHELOR AND GLOM JEAN BACHELOR, H/W RITA G. JARVIS MIKE ROSS, INC. I.L. MORRIS JO ELLEN HARPER DAY MARY LEE LILLY ARMEN LEONIAN, AKA ARMEN LANHAM LEONIAN JOHN FULTON LEONIAN NILA ASH SAYLOR REVOCABLE TRUST, BY JOSEPH F. SILEK, JR. BAILEY ANN MILLS WILLIAM PAUL HARPER DAVID PAUL LOCOCO MARY LYNNE SLATTERY, FKA MARY LYNNE LOCOCO DONALD VINCENT LOCOCO ROSE MARIE VANHEUVELN THERESA LEE ROBERTSON MARTHA SUE MUZIO, FKA MARTHA SUE LOCOCO MICHELE LOCOCO BUSHMIRE, FKA MICHELLE LUCRETIA BUSHMIRE ELIZABETH FLORENCE LOCOCO RALPH E. PHILLIPS AND VELINDA PHILLIPS, H/W BRC APPALACHIAN MINERALS I, LLC BRC APPALACHIAN MINERALS I, LLC	1-16/17 1-16/21
3	RONALD R. & ROWLAND & REVA D. ROWLAND	JACOB L. DILLON AND EDNA DILLON, H/W	P/O 1-16/20
4	D. RALPH THACKER & J. MAURICE CARLISLE JR.	CHARLES W. HENDERSON AND DOROTHY M. HENDERSON, H/W AND CHARLES W. HENDERSON, POWER OF ATTORNEY FOR THE A. I. DONK 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
5		PAUL W. HYLBERT AND CHARLOTTE J. HYLBERT, H/W	1-18/1
6	STEVEN E. MALICKI JR. FRED M. DOTSON JR. KAREN DOTSON KEVIN DOTSON STEVEN E. MALICKI JR.		1-18/1.1
7	MARY MONNIE COLLINS	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H WOODBERRY ROYALTY, INC. NANCY FOUT AND JOHN FOUT, W/H THERESA MARIE SMITH, SINGLE JAY COLLINS AND MARY M. COLLIN, H/W	1-18/15
8	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	N/A
9	EDWIN D. MULVAY AND PATRICIA L. MULVAY	EDWIN DELMER MULVAY AND PATRICIA VAUGHN MULVAY A. E. PRATT HEIRS, EXECUTED BY JEAN COLE AND ROBERT L. COLE A. E. PRATT HEIRS, EXECUTED BY PATRICIA P. PRATT AND ALLEN T. PRATT A. E. PRATT HEIRS, EXECUTED BY DARRYL A. PRATT A. E. PRATT HEIRS, EXECUTED BY ROBERT F. AND GLENNA Z. PRATT A. E. PRATT HEIRS, EXECUTED BY RICHARD F. MEAD AND MARGARET MEAD A. E. PRATT HEIRS, EXECUTED BY JANET TINGHAM AND ELVIN I. TINGHAM A. E. PRATT HEIRS, EXECUTED BY KENNETH E. PRATT AND LAURA L. PRATT A. E. PRATT HEIRS, EXECUTED BY MALCOLM E. GREENWOOD AND DOROTHY ANN A. E. PRATT HEIRS, EXECUTED BY DONALD E. BORER AND MARY JANE BORER A. E. PRATT HEIRS, EXECUTED BY THERESA C. PRATT	1-18/14
10	EVERETT L. CARMICHAEL	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H WOODBERRY ROYALTY, INC. NANCY FOUT AND JOHN FOUT, W/H THERESA MARIE SMITH, SINGLE EVERETT L. CARMICHAEL	1-18/25 1-18/26.1
11		CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H WOODBERRY ROYALTY, INC. NANCY FOUT AND JOHN FOUT, W/H THERESA MARIE SMITH, SINGLE JACOB MYER	1-18/26 1-18/26.3 1-18/26.4
12	JERRY D. & CHRISINA D. MYER AMANDA D. GIST & KYLE J. GIST JEREMY D. MYER	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H WOODBERRY ROYALTY, INC. NANCY FOUT AND JOHN FOUT, W/H THERESA MARIE SMITH, SINGLE JACOB MYER	1-18/26 1-18/26.3 1-18/26.4
13	JOSEPH J. DUFF	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H WOODBERRY ROYALTY, INC. NANCY FOUT AND JOHN FOUT, W/H THERESA MARIE SMITH, SINGLE L. JUANITA BAKER	1-18/27
14	PHIL LEONARD KOONTZ	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H WOODBERRY ROYALTY, INC. NANCY FOUT AND JOHN FOUT, W/H THERESA MARIE SMITH, SINLGE PHIL KOONTZ LEONARD	1-18/28

RECEIVED
Office of Oil and Gas

NOV 21 2019

WV Department of
Environmental Protection

AS-DRILLED
SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83
N:4358005.08
E:514189.14
NAD83, WV NORTH
N:320191.663
E:1591030.848
LAT/LON DATUM-NAD83
LAT:39°22'17.027"
LON:80°50'06.982"

APPROX. LANDING POINT

UTM 17-NAD83
N:4357697.13
E:513854.23
NAD83, WV NORTH
N:319199.452
E:1589914.971
LAT/LON DATUM-NAD83
LAT:39°22'07.057"
LON:80°50'21.002"

AS-DRILLED
BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83
N:4353966.72
E:515193.90
NAD83, WV NORTH
N:306884.670
E:1594106.832
LAT/LON DATUM-NAD83
LAT:39°20'05.966"
LON:80°49'25.319"

PERMITTED
SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83
N:4358005.08
E:514189.14
NAD83, WV NORTH
N:320191.663
E:1591030.848
LAT/LON DATUM-NAD83
LAT:39°22'17.027"
LON:80°50'06.982"

PERMITTED
APPROX. LANDING POINT

UTM 17-NAD83
N:4357702.55
E:513839.97
NAD83, WV NORTH
N:319218.001
E:1589868.452
LAT/LON DATUM-NAD83
LAT:39°22'07.233"
LON:80°50'21.598"

PERMITTED
BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83
N:4353967.77
E:515196.62
NAD83, WV NORTH
N:306887.950
E:1594115.822
LAT/LON DATUM-NAD83
LAT:39°20'05.999"
LON:80°49'25.206"

API WELL #: 47 95 02570
STATE COUNTY PERMIT

THRASHER

CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES
600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
PHONE (304) 624-4108 • FAX (304) 624-7831

SEPTEMBER 17, 2019

SHR 38 EHSM

PAGE 4 OF 4

AS DRILLED PLAT

	SURFACE OWNER	LESSOR	DIST-TM/PAR
15	JAMES C. WILLIAMS & PATRICIA L. WILLIAMS	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H WOODBERRY ROYALTY, INC. NANCY FOUT AND JOHN FOUT, W/H THERESA MARIE SMITH, SINGLE PATRICIA L. WILLIAMS	1-18/30
16 17	JACOB MYER	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H WOODBERRY ROYALTY, INC. NANCY FOUT AND JOHN FOUT, W/H THERESA MARIE SMITH, SINGLE JACOB MYER	1-18/29
18	CLIFFORD A. & TOBY A. WEEKLEY	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H WOODBERRY ROYALTY, INC. NANCY FOUT AND JOHN FOUT, W/H THERESA MARIE SMITH, SINGLE CLIFFORD A. WEEKLEY AND TOBY A. WEEKLEY, H/W	1-18/23
19	JAY GLENN COLLINS, ET AL	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H WOODBERRY ROYALTY, INC. NANCY FOUT AND JOHN FOUT, W/H THERESA MARIE SMITH, SINGLE DANIEL VINCENT LANTZ NINA MAE MOLNAR DELVERNA JUNE MCKITRICK JAY GLENN COLLINS DAVID CARL LANTZ	1-18/22
20	JON M. MONTGOMERY	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H WOODBERRY ROYALTY, INC. NANCY FOUT AND JOHN FOUT, W/H THERESA MARIE SMITH, SINGLE JON M. MONTGOMERY	1-18/20
21	EDWIN D. & PATRICIA L. MULVAY	CECILIA LOUISE BOOMER AND JAMES BOOMER, W/H WOODBERRY ROYALTY, INC. NANCY FOUT AND JOHN FOUT, W/H GLENDA L. HEDRICK THERESA MARIE SMITH, SINGLE EDWIN DELMER MULVAY AND PATRICIA L. MULVAY, H/W	1-18/18
22	RALPH MCCUTCHAN II CHIPPS REVOCABLE LIVING TRUST 2004	CLARENCE L. HURST AND BETTY ANN	8-3/3
23	RALPH P. MCCUTCHAN II	CLARENE W. MUTSCHELKNAUS AND MARY F. MUTSCHELKNAUS, H/W	8-3/4.1
24	PHYLLIS MARIE STEELE (LE)	WILLIAM PAUL MCCUTCHAN AND VIRGINIA B. MCCUTCHAN, H/W JACQUELINE L. STANDAER AND WARREN G. STANDAER, W/H MARYLYNN H. ROBERTS AND JOHN E. ROBERTS, W/H J. W. MORTON FIELD	8-3/7

RECEIVED
Office of Oil and Gas

NOV 21 2019

WV Department of
Environmental Protection

AS-DRILLED
SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83
N:4358005.08
E:514189.14
NAD83, WV NORTH
N:320191.663
E:1591030.848
LAT/LON DATUM-NAD83
LAT:39°22'17.027"
LON:80°50'06.982"

APPROX. LANDING POINT

UTM 17-NAD83
N:4357697.13
E:513854.23
NAD83, WV NORTH
N:319199.452
E:1589914.971
LAT/LON DATUM-NAD83
LAT:39°22'07.057"
LON:80°50'21.002"

AS-DRILLED
BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83
N:4353966.72
E:515193.90
NAD83, WV NORTH
N:306884.670
E:1594106.832
LAT/LON DATUM-NAD83
LAT:39°20'05.966"
LON:80°49'25.319"

PERMITTED
SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83
N:4358005.08
E:514189.14
NAD83, WV NORTH
N:320191.663
E:1591030.848
LAT/LON DATUM-NAD83
LAT:39°22'17.027"
LON:80°50'06.982"

PERMITTED
APPROX. LANDING POINT

UTM 17-NAD83
N:4357702.55
E:513839.97
NAD83, WV NORTH
N:319218.001
E:1589868.452
LAT/LON DATUM-NAD83
LAT:39°22'07.233"
LON:80°50'21.598"

PERMITTED
BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83
N:4353967.77
E:515196.62
NAD83, WV NORTH
N:306887.950
E:1594115.822
LAT/LON DATUM-NAD83
LAT:39°20'05.999"
LON:80°49'25.206"

API WELL #: 47 95 02570
STATE COUNTY PERMIT

THRASHER

CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES
800 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
PHONE (304) 624-4108 • FAX (304) 624-7831

SEPTEMBER 17, 2019