



Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

Richard J. Simmers, Chief

Division of Oil and Gas Resources Management

2045 Morse Road – Bldg. F-2

Columbus, OH 43229-6693

Phone: (614) 265-6922 Fax: (614) 265-6910

ORDER BY THE CHIEF

June 27, 2016

ORDER NO. 2016-254

**TO: Chesapeake Exploration, L.L.C.
P.O. Box 18496
Oklahoma City, OK 73154-0496**

**RE: Application for Unitization
Jamar South Unit
Harrison County, Ohio**

SUBJECT: Order for Unit Operations of the Utica/Point Pleasant Formations

Pursuant to Ohio Revised Code (“R.C.”) § 1509.28, the Chief of the Division of Oil and Gas Resources Management (“Chief” or “Division”) makes the following Findings and issues the following Order with respect to Chesapeake Exploration, L.L.C.’s (“Chesapeake”) Application for Unit Operations for the Jamar South Unit:

DEFINITIONS:

As used in this order:

- 1) “Person” has the same meaning as in R. C. §1509.01 of the Ohio Revised Code.
- 2) “Application” means the application of Chesapeake Exploration, L.L.C. for Unit Operation of the Jamar South Unit filed April 25, 2014, and includes all updates, amendments, and supplements to it.
- 3) “Royalty interest owner” means a person, or the estate of a person, who owns the right to, or interest in, any portion of the oil and/or gas, or proceeds from the sale thereof, from a tract, other than a working interest owner.
- 4) “Working interest” means an interest in oil and/or gas in the unit area by virtue of a lease, operating agreement, fee title, or otherwise, including a carried interest, the owner of which is obligated to pay, either in cash or out of production or otherwise, a portion of the unit expense.

- 5) "Working interest owner" means a person, or the estate of a person, who owns an interest in oil and/or gas in the unit area by virtue of a lease, operating agreement, fee title, or otherwise, including a carried interest, the owner of which is obligated to pay, either in cash or out of production or otherwise a portion of the unit expense. "Working interest owner" does not include an unleased mineral owner.
- 6) "Unleased mineral owner" means a royalty interest owner who owns oil and gas rights free of a lease or other instrument conveying all or any portion of the working interest in such rights to another. The sole unleased mineral owner is the Ohio Department of Transportation as shown in Exhibit C.
- 7) "Consenting working interest owner" means any working interest owner who enters into an agreement with Chesapeake pertaining to the operation of the Jamar South Unit. Those persons, who at the time of the hearing are "consenting working interest owners", are XTO Energy, Inc., American Energy – Utica, LLC (nka Ascent Resources), and EnerVest Operating, LLC.
- 8) "Non-consenting working interest owner" means a working interest owner who does not enter into an agreement with Chesapeake pertaining to the operation of the Jamar South Unit.
- 9) "Gas" has the same meaning as in R.C. §1509.01 of the Ohio Revised Code.
- 10) "Oil" has the same meaning as in R.C. §1509.01 of the Ohio Revised Code.
- 11) "Unit Area" means all of the lands, oil and gas leases and/or oil and gas interests of fifty-one (51) tracts as shown in Exhibit B totaling 729.425453 acres located in North Township, Harrison County, Ohio as shown in Exhibit A.
- 12) "Unit Participation" means the ratio of the surface acreage of a specific tract in the unit area to the total surface acreage of the unit area as that total surface acreage is specified in paragraph one of the Plan for Unit Operations of this order.

BACKGROUND:

- 1) Chesapeake has filed the application pursuant to R. C. §1509.28 to operate as a unit the Utica/Point Pleasant Formations at an approximate true vertical depth located from fifty (50) feet above the top of the Utica Shale to fifty (50) feet below the base of the Point Pleasant Formation. The application includes a Unit Agreement, Model Form Operating Agreement and relevant exhibits. The Application also includes the pre-filed testimony of the following Chesapeake employees: Larry Carter, geoscience advisor; David Yard, reservoir engineer; and Robert Highsaw and Lauren Elliott, landman.
- 2) Pursuant to R.C. 1509.28, the Division held a hearing on June 11, 2014, in Columbus, Ohio at the Ohio Department of Natural Resources ("ODNR"), to consider the need for the

operation as a unit of an entire pool or part thereof. At the hearing, Chesapeake employees Carter, Yard, and Highsaw confirmed their pre-filed testimony and answered questions posed by Division staff members.

- 3) On November 24, 2014, Chesapeake submitted to the Division substantial revisions to the Application. On February 12, 2015, the Division held another hearing to consider the Application. At the hearing, Chesapeake employees Yard and Elliott confirmed their pre-filed testimony and answered questions posed by Division staff members.

FINDINGS:

- 1) Based on the application and testimony by Chesapeake's employees, the Chief finds that Chesapeake has established that it is the "owner," as that term is defined in R.C. 1509.01(K), of greater than sixty-five percent (65%) of the land area overlying the pool in the Jamar South Unit as required by R.C. 1509.28(A).
- 2) Based on the application and testimony by Chesapeake's employees, the Chief finds that the operation of the Jamar South Unit is reasonably necessary to increase substantially the ultimate recovery of oil and gas.
- 3) Based on the application and testimony by Chesapeake's employees, the Chief finds the value of the estimated additional recovery of oil or gas from the Jamar South Unit exceeds the estimated additional cost incident to conducting the operation of the Jamar South Unit.

ORDER:

IT IS HEREBY ORDERED:

Pursuant to R.C. 1509.28, Chesapeake is authorized to conduct operations within the Jamar South Unit in accordance with all of the following:

Plan for Unit Operations

- 1) The unit area is comprised of fifty-one (51) tracts totaling 729.42543 acres in North Township, Harrison County, Ohio, as shown on Exhibit A.
- 2) Chesapeake proposes to drill three (3) wells from a single pad site in the Jamar South Unit for the purpose of recovering oil and gas. Drilling operations shall commence in the unit area within twenty-five (25) months from the date of approval of this Order. In order to achieve the stated goal of substantially increasing the ultimate recovery of oil and gas from the Utica/Point Pleasant Formations within the unit area, Chesapeake shall produce from three (3) wells no later than four (4) years after the date of approval of this order. If Chesapeake fails to drill, complete, and produce at least three (3) wells in the unit area, the Chief may amend or terminate this order. Any additional wells permitted by the Chief for the Utica/Point Pleasant Formations in the unit area are subject to this order.

- 3) Evidence introduced by Chesapeake at the Jamar South Unit hearing establishes that the Utica/Point Pleasant Formation uniformly underlies the unit area. Therefore, the allocated share of production to each tract shall be equal to that tract's unit participation.
- 4) Except as provided in Paragraph 9(d) of this order, all charges and credits made for investments in wells, tanks, pumps, machinery, materials, and equipment shall be allocated among the working interest owners of each tract based on the unit participation. The proportionate share of the expenses attributable to tracts of the unleased mineral owners shall be allocated to Chesapeake and the working interest owners.
- 5) All unit operation expenses shall be charged to, and paid by, Chesapeake and working interest owners in amounts based on the unit participation plus their proportionate share of the expenses attributable to the tracts of unleased mineral owners. All unit operation expenses concerning wells and operating equipment shall be just and reasonable.
- 6) If necessary, Chesapeake and the consenting working interest owners shall carry, or otherwise finance, any non-consenting working interest owners who are unable to meet their financial obligations in connection with the unit operations. Chesapeake and all other consenting working interest owners' reasonable interest charge for carrying or financing the non-consenting working interest owners shall be determined by the terms of Chesapeake's Unit Agreement and Model Form Operating Agreement for the Jamar South Unit. Once a specific cost is charged to the initial well, that same cost cannot be charged to subsequent wells in the unit area.
- 7) Chesapeake shall supervise and conduct all unit operations. Each working interest owner shall have a voting interest equal to its Unit Participation. Approval of unit operations shall be subject to the terms of Chesapeake's Unit Agreement and Model Form Operating Agreement for the Jamar South Unit.
- 8) Unit operations may commence as of 7:00 a.m. on the day following the effective date of this order. Once the initial well is placed into production, operations within the Jamar South Unit may continue as long as hydrocarbons are produced from any well in the unit area without a cessation of more than ninety (90) days, unless otherwise approved by the Chief in writing. The Jamar South Unit may be terminated if working interest owners owning at least fifty-one percent (51%) of the working interest in the unit area determine that the unit operations are no longer warranted. If the unit operations are so terminated, Chesapeake shall provide written notice of the termination to the Division and to all unleased mineral owners. In the event that termination of unit operations occurs prior to drilling and completing for production of three (3) wells in the Jamar South Unit, the Chief may amend this order.
- 9) The following additional provisions are found to be appropriate:

- a) No activity associated with the drilling, completion, or operation of the Jamar South Unit shall be conducted on the surface of any unleased property without the prior written consent of the owner of the surface rights of the unleased property.
- b) Unleased mineral owners shall not incur liability for any personal or property damage associated with any drilling, testing, completing, producing, operating, or plugging activities within the Jamar South Unit.
- c) Each unleased mineral owner shall receive a monthly cash payment equal to a one-eighth (1/8) landowner royalty interest calculated on gross proceeds. Allocation of the one-eighth (1/8) landowner royalty shall be based on the unit participation of each unleased mineral owner's tract. Chesapeake shall make royalty payments to all royalty interest owners at the same time.
- d) In addition to the royalty payment, each unleased mineral owner shall receive a monthly cash payment equal to a seven-eighths (7/8) share of the net proceeds from production. Allocation of the seven-eighths (7/8) share shall be based on the unit participation of each unleased mineral owner's tract. After the working interest owners recover a reasonable interest charge equal to 200% of the cost of drilling, testing, completing, and producing the initial well, the working interest owners shall begin making such monthly payments for that well. For each additional well drilled in the unit area, the working interest owners shall begin making monthly payments equal to seven-eighths (7/8) share of net proceeds from production to each unleased mineral owner once the working interest owners have recovered a reasonable interest charge equal to 150% of the cost of drilling, testing, completing, and producing. Once a specific cost is charged to the initial well, that same cost cannot be charged to subsequent wells in the unit area.
- e) Nothing in this order prohibits the unleased mineral owner from entering into a lease agreement with Chesapeake pursuant to terms agreeable to both parties. An unleased mineral owner who enters into a lease with Chesapeake after the issuance of this order is no longer an unleased mineral owner under this order as of the effective date of the lease. Chesapeake shall notify the Division upon the execution of a lease agreement with any unleased mineral owner who is subject to this order.
- f) Except as provided in Paragraph 9(d) of this order, no expenses shall be paid by an unleased mineral owner for drilling, testing, completing, producing, or operating any well in the unit area. However, the unleased mineral owner is not responsible for any costs related to plugging any well in the unit area.
- g) If requested in writing by any unleased mineral owner or by any non-consenting working interest owner, or in any manner by the Division, Chesapeake shall provide, not later than thirty (30) days after the request, any of the following:

- i. A monthly statement of all costs incurred, together with the quantity of oil and gas produced, and the amount of proceeds realized from the sale of production during the preceding month; and
 - ii. Any authorization for expenditure (AFE) prepared by Chesapeake; and
 - iii. A statement of all costs and expenses for purposes of Paragraphs 6 and 9(d) of this order.
 - h) Chesapeake shall notify the Division of the assignment or transfer of any of its working interest in the Jamar South Unit. If Chesapeake assigns or transfers any of its working interest, the assignee or transferee shall comply with this order.
 - i) Chesapeake shall notify the Division if a tract that is leased by Chesapeake, or any other consenting working interest owner, for purposes of operating the Jamar South Unit becomes an unleased tract. If Chesapeake or the consenting working interest owner is unable to enter into lease agreement for the unleased tract, Chesapeake must submit a request to the Division for an amendment of this order, which will include a new hearing before the Chief.
 - j) Chesapeake shall notify the Division if any consenting working interest owner revokes, rescinds or otherwise terminates the agreement with Chesapeake pertaining to the operation of the Jamar South Unit. Chesapeake shall also notify the Division if any consenting working interest owner assigns or transfers all or part of its working interest in the Jamar South Unit.
 - k) Chesapeake shall notify the Division if any non-consenting working interest owner enters into an agreement with Chesapeake pertaining to the operation of the Jamar South Unit.
- 10) Within twenty-one (21) days after receipt of this Chief's Order, Chesapeake shall review Exhibit B to determine if the listed information for each person with an interest in the Jamar South Unit is current and accurate and notify the Division of Chesapeake's determination. If the listed information for any person with an interest in the Jamar South Unit is not current and accurate, Chesapeake shall provide the Division the accurate and current name and address of each such person not later than twenty-one (21) days after receipt of this Chief's Order.
- 11) This order is not effective unless and until Chesapeake provides the Chief with final written approval of the unit operations as prescribed in this order by Chesapeake and consenting working interest owners, and also by the royalty interest owners or, with respect to unleased acreage, unleased mineral owners of sixty-five percent (65%) of the acreage to be included in the unit. Upon receipt of this approval, this order shall become effective, and unit operations may commence as set forth above. In the event that Chesapeake fails to provide all required approvals within six (6) months after the issuance date of this order, the order will be deemed revoked, and the Chief shall provide notice of the revocation to

Chesapeake, to the unleased mineral owners, and to the non-consenting working interest owners.

- 12) In the event that this Chief's Order is appealed, the time periods as specified in this order are tolled pending final determination of the appeal.
- 13) Within twenty-one (21) days of this order becoming effective, Chesapeake shall file a copy of this order with the Harrison County (Ohio) Recorder's Office, in the records of each of tracts that are subject to this order and referenced in Exhibit A of this order. Chesapeake shall submit a certification of the filing to the Division within fourteen (14) days of filing. The certification shall include a reference to the volume and page number corresponding to each record where the Chief's Order is recorded.
- 14) The Chief of the Division retains continuing jurisdiction over the Jamar South Unit as is consistent with the Chief's powers and duties as established by R.C. Chapter 1509 and Ohio Admin. Code 1501:9. The Chief reserves the right to amend this Order subsequent to the commencement of unit operations within the unit area.
- 15) Except as specifically set forth in the terms of this order, nothing herein shall be construed as a release or waiver of any private right, obligation, duty, claim or cause of action.
- 16) In the event of a conflict between this Chief's Order and Chesapeake's Unit Agreement and Model Form Operating Agreement attached to the application, this Chief's Order shall take precedence.

Date 6/27/2016

Scott R. Kell for
Richard J. Simmers
Richard J. Simmers, Chief
Division of Oil and Gas Resources Management

Addressee is hereby notified that this action is final and effective and may be appealed pursuant to Section 1509.36 of the Ohio Revised Code. If the Order is appealed to the Ohio Oil and Gas Commission, the appeal must be in writing and must set forth the Orders complained of and the grounds upon which the appeal is based. Such appeal must be filed with the Oil and Gas Commission, 2045 Morse Road, Building H-3, Columbus, Ohio 43229-6693, within thirty (30) days after receipt of this Order.

In addition, within three (3) days after the appeal is filed with the Oil and Gas Commission, notice of the filing must be submitted to Richard J. Simmers, Chief, Division of Oil and Gas Resources Management, Ohio Department of Natural Resources, 2045 Morse Road, Building F-2, Columbus, Ohio 43229-6693.

Enclosures: Exhibit A
Exhibit B
Exhibit C

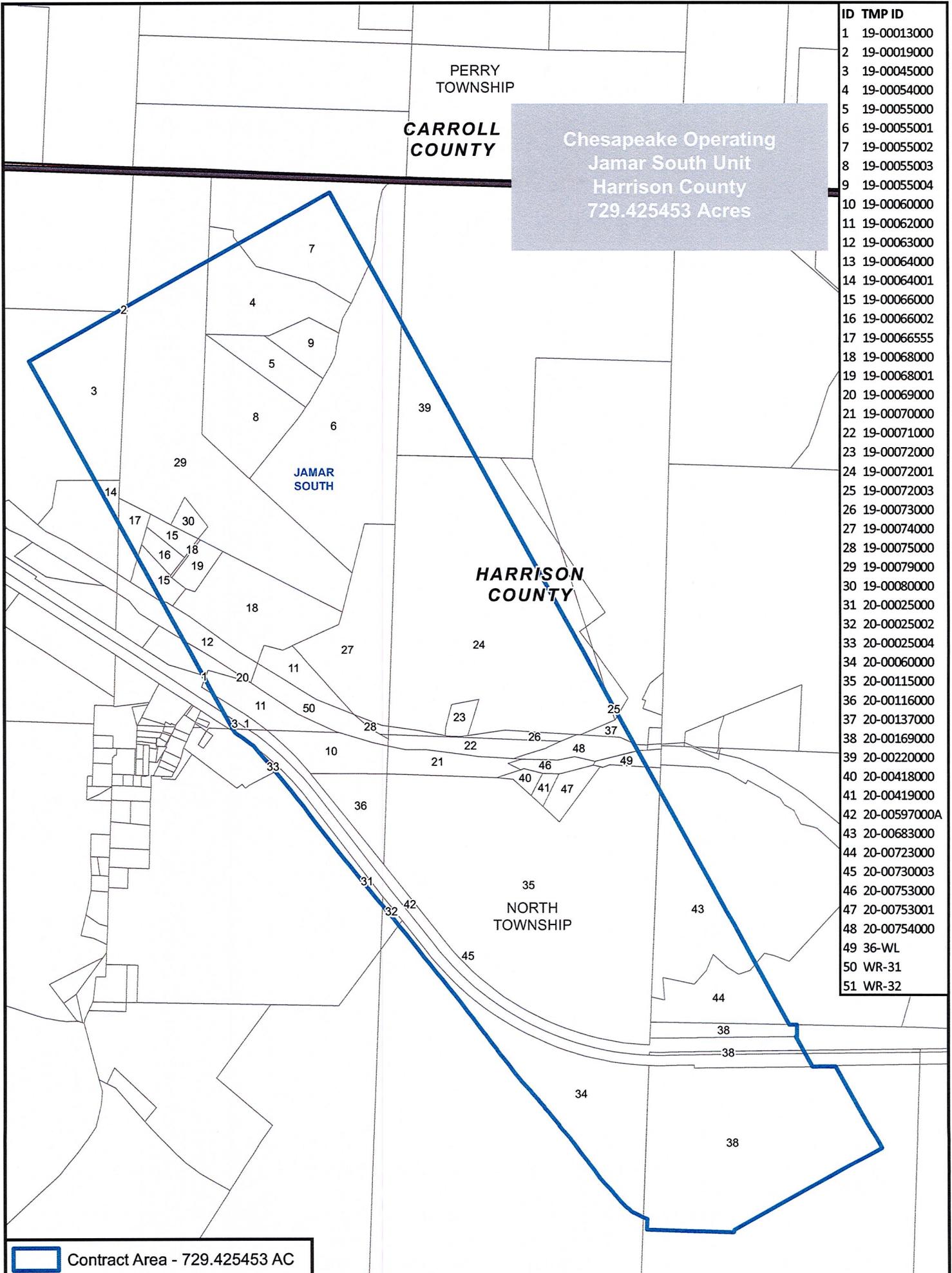
CERTIFIED MAIL TO:

NAME	ADDRESS	CITY	STATE	ZIP	CERTIFIED
Wheeling and Lake Erie Railway Company	100 E First St	Brewster	OH	44613	91 7199 9991 7036 3294 3720
Bruce W & Margaret A Gandee	35000 Scio-Bowerston Rd	Bowerston	OH	44695	91 7199 9991 7036 3294 3737
Consolidated Rail Corporation	1717 Arch St., Ste 1310	Philadelphia	PA	19103	91 7199 9991 7036 3294 3744
Jerry E & Peggy L Knight	91800 Timmerman Rd	Bowerston	OH	44695	91 7199 9991 7036 3294 3751
George H Farnsworth, II	2600 Ranch Rd	Carrollton	OH	44615	91 7199 9991 7036 3294 3768
James R Costigan	3670 Forest Oaks Dr	Fairlawn	OH	44333	91 7199 9991 7036 3294 3775
Jamar Holdings Ltd By Jacob E Yoder, Jr	13405 Harrison Rd	Applecreek	OH	44606	91 7199 9991 7036 3294 3782
Woodland Legacy, LLP	3123 E Kimberly Rd	Davenport	IA	52807	91 7199 9991 7036 3294 3799
Property Management Section ODOT Office Of Real Estate	1980 W. Broad Street, 4th Floor Mail Stop 4120	Columbus	OH	43223	91 7199 9991 7036 3294 3805
Vernon J Webb	35200 Scio-Bowerston Rd	Bowerston	OH	44695	91 7199 9991 7036 3294 3812
LJ Smith Inc.	Attn: Craig Kurtz, President 35280 Scio-Bowerston Rd	Bowerston	OH	44695	91 7199 9991 7036 3294 3829
Bernard L & Karen J West	35500 SR 151 TR 204	Bowerston	OH	44695	91 7199 9991 7036 3294 3836
Ty J West	91200 Timmerman Rd	Bowerston	OH	44695	91 7199 9991 7036 3294 3843
Bernard L & Karen J West	35500 Scio-Bowerston Rd	Bowerston	OH	44695	91 7199 9991 7036 3294 3850
Joseph H & Teresa Finnicum	9229 Deacon Rd	Bowerston	OH	44695	91 7199 9991 7036 3294 3867

Green Fields Family Farm LTD	132 Fair Ave NW	New Philadelphia	OH	44663	91 7199 9991 7036 3294 3874
Dwight & Sandra L McBride	124 Piedmont Dr	Kannapolis	NC	28081	91 7199 9991 7036 3294 3881
Robert McBride	1100 Liberty Ave	Pittsburgh	PA	15222	91 7199 9991 7036 3294 3898
Mildred M McBride	36000 Scio-Bowerston rd	Bowerston	OH	44695	91 7199 9991 7036 3294 3904
Thomas C & Gail L Dennis	91300 Timmerman Rd	Bowerston	OH	44695	91 7199 9991 7036 3294 3911
Christine Blanc-Osbourne	9 Springfield Way	Arden	NC	28704	91 7199 9991 7036 3294 3928
Kim Inboden	91009 Conotton Rd.	Bowerston	OH	44695	91 7199 9991 7036 3294 3935
William R Harding	283 Second St NW	Carrollton	OH	44615	91 7199 9991 7036 3294 3942
Thelma M Horstman	36230 Scio-Bowerston Rd	Bowerston	OH	44695	91 7199 9991 7036 3294 3959
D Steven & Lorraine Reese and R Christopher & Cathy Reese and Douglas S & Christina Reese	37900 Crimm Rd	Scio	OH	43988	91 7199 9991 7036 3294 3966
Harry C & Deann Horstman	90151 Kilgore Ridge Rd	Scio	OH	43988	91 7199 9991 7036 3294 3973
Paul A Trushell	36695 Scio-Bowerston Rd	Scio	OH	43988	91 7199 9991 7036 3294 3980
Marsh E Amos	90700 Amos Rd	Scio	OH	43988	91 7199 9991 7036 3294 3997
Richard Rice	36230 Scio-Bowerston Rd	Bowerston	OH	44695	91 7199 9991 7036 3294 4000
R. Neal Pierce Katerina E. Milenkovski Steptoe & Johnson PLLC	Huntington Center 41 South High Street, Suite 2200	Columbus	OH	43215	91 7199 9991 7036 8794 8510
Robert S. Highsaw Landman II - Appalachia South Chesapeake Energy Corporation	6100 N. Western Avenue P.O. Box 18496	Oklahoma City	OK	73154	91 7199 9991 7036 8794 8527

Edwin S. Ryan, Jr. Sr. Vice President - Land Administration XTO Energy	810 Houston Street	Fort Worth	TX	76102	91 7199 9991 7036 8794 8534
Serena Evans Land Director, Utica American Energy-Utica LLC	301 NW 63rd, Suite 600	Oklahoma City	OK	73116	91 7199 9991 7036 8794 8541
Charles T. Akers, Jr Manager- Utica Land Enervest Operating, LLC	300 Capitol Street, Suite 200	Charleston	WV	25301	91 7199 9991 7036 8794 8558
Chesapeake Exploration, LLC	P.O. Box 18496	Oklahoma City	OK	73154	91 7199 9991 7036 8794 8565

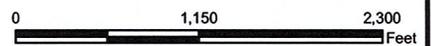
Exhibit A



ID	TMP ID
1	19-00013000
2	19-00019000
3	19-00045000
4	19-00054000
5	19-00055000
6	19-00055001
7	19-00055002
8	19-00055003
9	19-00055004
10	19-00060000
11	19-00062000
12	19-00063000
13	19-00064000
14	19-00064001
15	19-00066000
16	19-00066002
17	19-00066555
18	19-00068000
19	19-00068001
20	19-00069000
21	19-00070000
22	19-00071000
23	19-00072000
24	19-00072001
25	19-00072003
26	19-00073000
27	19-00074000
28	19-00075000
29	19-00079000
30	19-00080000
31	20-00025000
32	20-00025002
33	20-00025004
34	20-00060000
35	20-00115000
36	20-00116000
37	20-00137000
38	20-00169000
39	20-00220000
40	20-00418000
41	20-00419000
42	20-00597000A
43	20-00683000
44	20-00723000
45	20-00730003
46	20-00753000
47	20-00753001
48	20-00754000
49	36-WL
50	WR-31
51	WR-32

 Contract Area - 729.425453 AC

CONTRACT AREA



Jamar South
North Township
Harrison Co., OH

1 inch = 1,150 feet

Exhibit B

Leases Within the Contract Area

Attached to and made a part of that certain Unit Operating Agreement dated April 25, 2014 as approved by the Ohio Department of Natural Resources for the Jamar South Unit.

TRACT NUMBER	CHEAPEAKE LEASE NUMBER	LESSOR	LEASED YES/NO	SURFACE ACRES IN UNIT	TRACT PARTICIPATION	TAX MAP PARCEL ID NUMBERS	TOWNSHIP	COUNTY	STATE	UNIT WORKING INTEREST	CHEAPEAKE WORKING INTEREST	CHEAPEAKE UNIT PARTICIPATION	ENERVEST INTEREST	ENERVEST UNIT PARTICIPATION	XTO WORKING INTEREST	XTO UNIT PARTICIPATION	AEU WORKING INTEREST	AEU UNIT PARTICIPATION	ADDRESS	CITY	STATE	ZIP CODE
1	1-38304-001	WHEELING AND LAKE ERIE RAILWAY COMPANY	YES	1.076294	0.001455	19-00013000	North	HARRISON	OH	0.14755%	100.000001%	0.14755%							100 E First St	Brewster	OH	44613
2	34-00089-000	BRUCE W & MARGARET A GANDEE	YES	0.067714	0.000029	19-00018000	North	HARRISON	OH	0.00229%	100.000001%	0.00229%							30000 Scoe-Boweston Rd	Boweston	OH	44695
3	34-0001356-000	CONSOLIDATED RAIL CORPORATION	YES	0.297635	0.003969	19-00045000	North	HARRISON	OH	0.02669%	100.000001%	0.02669%							1177 Arch St, Ste 1310	Philadelphia	PA	19103
4	34-026894-000	JERRY E & PEGGY L KNIGHT	YES	17.870848	0.044969	19-00024000	North	HARRISON	OH	2.44969%	100.000001%	2.44969%							91800 Timmerman Rd	Boweston	OH	44695
5	34-000949-000	GEORGE H FARNSWORTH II	YES	7.176977	0.098392	19-00025000	North	HARRISON	OH	0.98392%	100.000001%	0.98392%							2600 Ranch Rd	Carrollton	OH	44615
6	34-012516-000	JAMES R COSTIGAN	YES	58.626239	0.097711	19-00025001	North	HARRISON	OH	0.97711%	63.50000%	4.36070%		2.616417%					3070 Forest Oaks Ct	Fairlawn	OH	44333
7	34-014668-000	JAMAR HOLDINGS LTD BY JACOB E YOCER, JR	YES	16.186587	0.021458	19-00025002	North	HARRISON	OH	2.21385%	62.50000%	1.39710%		0.63261%					13425 Harrison Rd	Appeneck	OH	44606
8	34-000949-000	GEORGE H FARNSWORTH, II	YES	17.644692	0.024189	19-00025003	North	HARRISON	OH	2.41899%	100.000001%	2.41899%							2600 Ranch Rd	Carrollton	OH	44615
9	34-000949-000	GEORGE H FARNSWORTH, II	YES	5.097083	0.009878	19-00025004	North	HARRISON	OH	0.98789%	100.000001%	0.98789%							2600 Ranch Rd	Carrollton	OH	44615
10	CH000037-000	WOODLAND LEGACY, LLLP	YES	8.010335	0.0109827	19-00090000	North	HARRISON	OH	1.09827%	100.000001%	1.09827%							3123 E Kimberly Rd	Davenport	IA	52807
11	CH000037-000	WOODLAND LEGACY, LLLP	YES	11.039072	0.0151339	19-00092000	North	HARRISON	OH	1.51339%	100.000001%	1.51339%							3123 E Kimberly Rd	Davenport	IA	52807
12	OPEN	OHIO DEPARTMENT OF TRANSPORTATION	NO	4.472621	0.061612	19-00063000	North	HARRISON	OH	0.61371%									Attn: John Maynard and Jim Vear COOT Office of Real Estate 4TH Floor, 1960 W. Broad St. Mail Stop 4120	Columbus	OH	43223
13	34-003701-000	VERNON J WEBB	YES	21.277188	0.0291689	19-00094000	North	HARRISON	OH	2.91689%	100.000001%	2.91689%							30200 Scoe-Boweston Rd	Boweston	OH	44695
14	34-000282-000	L J SMITH INC.	YES	1.125992	0.0015435	19-00064001	North	HARRISON	OH	0.15435%	100.000001%	0.15435%							Attn: Craig Katz, President 35200 Scoe-Boweston Rd	Boweston	OH	44695
15	34-001653-000	BERNARD L & KAREN J WEST	YES	43.47764	0.005606	19-00096000	North	HARRISON	OH	0.5606%	100.000001%	0.5606%							35500 SR 151 TR 204	Boweston	OH	44695
16	34-000753-000	TY J WEST	YES	1.94346	0.0026970	19-00096002	North	HARRISON	OH	0.26970%	100.000001%	0.26970%							91200 Timmerman Rd	Boweston	OH	44695
17	34-000415-000	BERNARD L & KAREN J WEST	YES	2.217811	0.0030495	19-00096005	North	HARRISON	OH	0.30495%	100.000001%	0.30495%							36500 Scoe-Boweston Rd	Boweston	OH	44695
18	34-000683-000	JOSEPH H & TERESA FINNINCUM	YES	20.866666	0.028644	19-00096000	North	HARRISON	OH	2.8644%	100.000001%	2.8644%							9229 Deacon Rd	Boweston	OH	44695
19	34-000753-000	TY J WEST	YES	2.794528	0.003255	19-00096001	North	HARRISON	OH	0.3255%	100.000001%	0.3255%							91200 Timmerman Rd	Boweston	OH	44695
20	34-000682-000	JOSEPH H & TERESA FINNINCUM	YES	1.428318	0.0019581	19-00095000	North	HARRISON	OH	0.19581%	100.000001%	0.19581%							9229 Deacon Rd	Boweston	OH	44695
21	34-000689-000	GREEN FIELDS FAMILY FARM LTD	YES	8.261692	0.0095844	19-00070000	North	HARRISON	OH	0.95844%	100.000001%	0.95844%							132 Fair Ave NW	New Philadelphia	OH	44683
22	OPEN	OHIO DEPARTMENT OF TRANSPORTATION	NO	5.420135	0.007431	19-00071000	North	HARRISON	OH	0.74307%									Attn: John Maynard and Jim Vear COOT Office of Real Estate 4TH Floor, 1960 W. Broad St. Mail Stop 4120	Columbus	OH	43223
23	34-000812-001	DWIGHT & SANDRA L MCBRIDE	YES	0.617243	0.003492	19-00072000	North	HARRISON	OH	0.08462%	100.000001%	0.08462%							124 Piedmont Ct	Kennepolis	NC	26081
23	34-000959-000	ROBERT MCBRIDE	YES	0.617243	0.003492	19-00072000	North	HARRISON	OH	0.08462%	100.000001%	0.08462%							1100 Liberty Ave	Pittsburgh	PA	15222
23	34-000817-002	MILDRED M MCBRIDE	YES	0.617243	0.003492	19-00072000	North	HARRISON	OH	0.08462%	100.000001%	0.08462%							30000 Scoe-Boweston Rd	Boweston	OH	44695
24	34-000609-000	GREEN FIELDS FAMILY FARM LTD	YES	92.614990	0.1399689	19-00072001	North	HARRISON	OH	12.69689%	100.000001%	12.69689%							132 Fair Ave NW	New Philadelphia	OH	44683
25	34-000609-000	GREEN FIELDS FAMILY FARM LTD	YES	0.132454	0.001816	19-00072003	North	HARRISON	OH	0.01816%	100.000001%	0.01816%							132 Fair Ave NW	New Philadelphia	OH	44683
25	OPEN	OHIO DEPARTMENT OF TRANSPORTATION	NO	2.249320	0.003076	19-00073000	North	HARRISON	OH	0.30757%									Attn: John Maynard and Jim Vear COOT Office of Real Estate 4TH Floor, 1960 W. Broad St. Mail Stop 4120	Columbus	OH	43223
27	34-000609-000	GREEN FIELDS FAMILY FARM LTD	YES	23.141469	0.017256	19-00074000	North	HARRISON	OH	3.17256%	100.000001%	3.17256%							132 Fair Ave NW	New Philadelphia	OH	44683
28	OPEN	OHIO DEPARTMENT OF TRANSPORTATION	NO	0.466629	0.000542	19-00075000	North	HARRISON	OH	0.06425%									Attn: John Maynard and Jim Vear COOT Office of Real Estate 4TH Floor, 1960 W. Broad St. Mail Stop 4120	Columbus	OH	43223
29	34-00232-000	THOMAS C & GALL L DENNIS	YES	63.302215	0.086659	19-00078000	North	HARRISON	OH	8.66659%	100.000001%	8.66659%							91300 Timmerman Rd	Boweston	OH	44695
30	34-00232-000	THOMAS C & GALL L DENNIS	YES	1.628001	0.002327	19-00080000	North	HARRISON	OH	0.2327%	100.000001%	0.2327%							91300 Timmerman Rd	Boweston	OH	44695
31	34-019492-000	CHRISTINE BLANC-COBSOURNE	YES	1.677418	0.003620	20-00025000	North	HARRISON	OH	0.3620%	100.000001%	0.3620%							9 Springfield Way	Auden	NC	28704

Exhibit C

Unitized Parties

Attached to and made a part of that certain Unit Operating Agreement dated April 25, 2014 as approved by the Ohio Department of Natural Resources for the Jamar South Unit.

TRACT NUMBER	MINERAL OWNER	ADDRESS	LEASED YES/NO	SURFACE ACRES IN UNIT	TRACT PARTICIPATION	TAX MAP PARCEL ID NUMBERS	TOWNSHIP	COUNTY	STATE	LESSOR WORKING INTEREST	UNIT PARTICIPATION
12	OHIO DEPARTMENT OF TRANSPORTATION	OFFICE OF REAL ESTATE, ATTN: JOHN MAYNARD AND JIM VIAU, MAIL STOP 4120, 1980 W. BROAD STREET, COLUMBUS, OH 43223	NO	4.472620562	0.0061317	19-00063000	NORTH	HARRISON	OH	100.00%	0.006132
22	OHIO DEPARTMENT OF TRANSPORTATION	OFFICE OF REAL ESTATE, ATTN: JOHN MAYNARD AND JIM VIAU, MAIL STOP 4120, 1980 W. BROAD STREET, COLUMBUS, OH 43223	NO	5.420134757	0.0074307	19-00071000	NORTH	HARRISON	OH	100.00%	0.007431
26	OHIO DEPARTMENT OF TRANSPORTATION	OFFICE OF REAL ESTATE, ATTN: JOHN MAYNARD AND JIM VIAU, MAIL STOP 4120, 1980 W. BROAD STREET, COLUMBUS, OH 43223	NO	2.24351992	0.0030757	19-00073000	NORTH	HARRISON	OH	100.00%	0.003076
28	OHIO DEPARTMENT OF TRANSPORTATION	OFFICE OF REAL ESTATE, ATTN: JOHN MAYNARD AND JIM VIAU, MAIL STOP 4120, 1980 W. BROAD STREET, COLUMBUS, OH 43223	NO	0.468629306	0.0006425	19-00075000	NORTH	HARRISON	OH	100.00%	0.000642
48	OHIO DEPARTMENT OF TRANSPORTATION	OFFICE OF REAL ESTATE, ATTN: JOHN MAYNARD AND JIM VIAU, MAIL STOP 4120, 1980 W. BROAD STREET, COLUMBUS, OH 43223	NO	4.198011469	0.0057552	20-00754000	NORTH	HARRISON	OH	100.00%	0.005755
49	OHIO DEPARTMENT OF TRANSPORTATION	OFFICE OF REAL ESTATE, ATTN: JOHN MAYNARD AND JIM VIAU, MAIL STOP 4120, 1980 W. BROAD STREET, COLUMBUS, OH 43223	NO	1.04743492	0.0014360	36-WL	NORTH	HARRISON	OH	100.00%	0.001436
50	OHIO DEPARTMENT OF TRANSPORTATION	OFFICE OF REAL ESTATE, ATTN: JOHN MAYNARD AND JIM VIAU, MAIL STOP 4120, 1980 W. BROAD STREET, COLUMBUS, OH 43223	NO	6.325791843	0.0086723	31-WR	NORTH	HARRISON	OH	100.00%	0.008672
51	OHIO DEPARTMENT OF TRANSPORTATION	OFFICE OF REAL ESTATE, ATTN: JOHN MAYNARD AND JIM VIAU, MAIL STOP 4120, 1980 W. BROAD STREET, COLUMBUS, OH 43223	NO	0.03899368	0.0000535	32-WR	NORTH	HARRISON	OH	100.00%	0.000053
				TOTAL UNITIZED ACRES:	24.2151365	0.0331975					
				TOTAL UNIT ACRES:	729.4254530						