STATE OF MICHIGAN

DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY OIL, GAS, AND MINERALS DIVISION

IN THE MATTER OF:)		
THE PETITION OF RIVERSIDE ENERGY MICHIGAN, LLC, FOR)		
AN ORDER OF THE SUPERVISOR OF WELLS APPROVING AN)		
ENHANCED GAS RECOVERY OPERATION, BY INJECTION OF)		
CARBON DIOXIDE, AND SUCH OTHER APPROPRIATE)	CAUSE NO. <u>02-2020</u>	
SUBSTANCES AS MAY BE APPROVED, INTO THE ANTRIM)		
FORMATION, FOR THE CHESTONIA/KEARNEY CO ₂ USP, IN)		
PARTS OF SECTIONS 5, 6, 7, 8, 17 AND 18 IN TOWNSHIP 30)		
NORTH, RANGE 6 WEST, (CHESTONIA TOWNSHIP) AND)		
SECTIONS 1, 11 AND 12 IN TOWNSHIP 30 NORTH, RANGE 7)		
WEST, (KEARNEY TOWNSHIP) ALL IN ANTRIM COUNTY,)		
MICHIGAN.)	*	

PETITION

RIVERSIDE ENERGY MICHIGAN, LLC ("Petitioner"), by and through its attorneys, Worman & Dixon, PLC, and in support of its Petition, filed in accordance with Act No 451, Public Acts of 1994, Part 615, and the rules promulgated thereunder, states:

- Petitioner is a Michigan limited liability company involved in the exploration for and production of oil and gas in the State of Michigan. The office of Petitioner is located at 10691 East Carter Road, Suite # 201, Traverse City, Michigan 49684.
- 2. Petitioner is the record owner of valid and subsisting oil and gas leases covering oil and gas interests in the Unitized Formation beneath the land described below. These lands are underlain by a pool or common source of supply in the lands described as follows:

Township 30 North, Range 6 West, Chestonia Township

Section 5: SW/4 SW/4

Section 6: S/2

Section 7: Entire

Section 8: W/2, W/2 E/2

Section 17: N/2

Section 18: N/2

Township 30 North, Range 7 West, Kearney Township

Section 1: SE/4, W/2

Section 11: Entire, except W/2 SW/4

Section 12: Entire

Petitioner has previously submitted its application that the above described lands be established as a Uniform Spacing Plan (USP) pursuant to Order No. 14-9-94. For purposes of this Petition, the above described lands will be at times referred to as the Chestonia/Kearney CO₂ USP.

- 3. The subject matter of this Petition is a request, pursuant to Rule 324.612, to institute a carbon dioxide (CO₂) injection operation for the purpose of secondary recovery and/or enhanced recovery in the unitized formation of the Chestonia/Kearney CO₂ USP in order to maximize the recovery of gas. The injection will occur through the use of one or more of the modified existing wellbores. Petitioner also requests authority from the Supervisor to inject such other appropriate substances as the Supervisor should approve in advance.
- 4. The Chestonia/Kearney CO₂ USP is wholly included within the described lands in paragraph 2. The Chestonia/Kearney CO₂ USP is underlain by the pool or common source of supply within the following formations:
 - a. All formations lying between the top of the Lachine and the Base of the Norwood (often referred as the Antrim), or the stratigraphic equivalents encountered in the original vertical well in the Chestonia/Kearney CO₂ USP pool, the Green River D4-7 well (P.N. 42879) located in the SE/4, SE/4, SE/4 Section 7, T30N, R6W, Chestonia Township, Antrim County, Michigan, hereinafter referred to as the "Unitized Formation".
- 5. Twenty-eight (28) wells have been drilled into the Unitized Formation within the proposed Chestonia/Kearney CO₂ USP. These wells are described:

Project Name	(Opera	tor)		(County)
Chestonia/Kearney CO₂ USP	(Riverside Energy	Michigan, L	LC)	(Antrim)
Well Name	Well #	DEQ#	MPSC#	TD Date
Burnett	A1-7	48958	7127	09/27/95
Burnett	A1-8	48783	6829	11/26/94
Burnett	A3-18	55813	10675	09/11/03
Burnett	A3-7	48979	7128	09/23/95
Burnett	C1-6	49833	7129	10/02/95
Burnett	C3-6	48978	7130	09/21/95
Burnett	D1-12	48970	7132	09/30/95
Burnett	D1-5	48731	7126	09/22/95
Burnett	D1-7	49834	7131	09/28/95
Burnett	D3-12	48980	7136	09/29/95
Cuca	C3-8	49854	7605	03/30/96
Devriese	B3-8	50379	7644	03/04/96

Green River	D4-7	42879	7070	12/22/89
Kafi	B1-12	49837	7137	09/29/95
Kafi	B3-12	55812	10671	10/01/03
Kafi	B4-12	48981	7134	09/26/95
Kafi	C2-1	50665	7586	03/14/96
Kafi	C3-1	49835	7183	10/03/95
Kafi	D1-1	49836	7584	03/13/96
Kotz	C2-11	48972	7133	09/28/95
Kunz	B1-18	48878	6830	11/10/94
Kunz	B4-18	48782	7089	09/18/95
Moore	C3-11	48732	7101	08/03/94
St. Kearney et al	A1-11 HD	58566	12252	10/29/07
St. Kearney et al	A3-11 HD	58588	12267	11/07/07
Thompson	D3-8	49850	7601	02/27/96
Urban	B4-17	49852	7603	03/29/96
Wright	A4-17	49853	7604	03/28/96

Attachment A is a map showing (i) USP described in Paragraph 2 hereof, (ii) the locations of all wells drilled in the Chestonia/Kearney CO₂ USP and within 1320 feet of the USP, (iii) the unit outline for the Chestonia/Kearney CO₂ USP. There is no third party lease ownership within 1320 feet of the proposed Chestonia/Kearney CO₂ USP. Ownership of the surface and minerals within the 1320 feet buffer is set out on Page 2 of Exhibit A.

- 6. The Chestonia/Kearney CO₂ USP is subject to an existing Unitization Agreement executed by the Petitioner's predecessor. A copy of the Unitization Agreement and the most recent amendment to the Unitization Agreement is Attachment B hereto. The Petitioner is the Unit Operator. The Unitization Agreement, as amended, authorizes the Petitioner, or its successor or assigns, to operate the proposed Unitized Formation on a unitized basis, to drill vertical and/or horizontal wells, conduct enhanced recovery, secondary recovery and/or pressure maintenance operations by injecting appropriate outside substances in such quantities and pressures of the proposed Plan of Unitization, such operations to be conducted singly or in combination, in efforts to maximize the recovery of gas. All royalty interest is subject to the Unitization Agreement, as amended, and the proceeds of production from the Chestonia/Kearney CO₂ USP will be allocated among the owners of the oil and gas leasehold interests, in the Unit Area, as defined in the most recent amendment of the Unitization Agreement, in accordance with the Unitization Agreement and the operative oil and gas leases.
- 7. Petitioner has reviewed, studied and analyzed Unitized Formation to determine a method of development and operation which will enhance the recovery of the remaining natural gas from the Chestonia/Kearney CO₂ USP. Petitioner plans to utilize several existing wells which will be converted to injection wells.

- 8. Petitioner proposes to implement a carbon dioxide (CO₂) injection operation for the purpose of Enhanced Gas Recovery (EGR) in the proposed Unitized Formation beneath the Chestonia/Kearney CO₂ USP in order to enhance the recovery of natural gas. Petitioner's analysis of the Antrim Shale indicates that the Antrim Shale stores methane gas thru adsorption. As formation pressure is lowered, the rock releases both methane and CO₂. The methane desorbs from the rock at a higher rate than the CO₂ as the shale matrix preferentially desorbs methane. By injecting CO₂, the partial pressure of CO₂ is increased, which creates a driving force for the adsorption of CO₂ and desorption of additional methane to the fracture system and ultimately to the wellbore. This process of the adsorption of CO₂ and the desorption of methane is depicted on Exhibit C.
- 9. The injection and production will initially occur through the use of existing well bores. Subject to permitting requirements, Petitioner requests authority from the Supervisor to allow the use of up to six (6) production wells to be converted to injection wells within the proposed Unit Area, as are necessary for sufficient development, and to inject carbon dioxide and/or such other appropriate substances as the Supervisor should approve in advance. Exhibit D is a schematic of the facilities Petitioner proposes for the project.
 - Petitioner will comply with all of the regulations of the Federal Environmental Protection Agency (EPA) in connection with its injection practices. A firm source of supply of adequate volumes of CO₂ is readily available. Petitioner will file an Underground Injection Control (UIC) permit application with the EPA for injection of CO₂ into Unitized Formation. To enhance gas recovery, it may be necessary to inject other substances in the future. Petitioner requests that the authority to approve the injection of other substances be reviewed at staff level with final approval by the Supervisor without a hearing.
- 10. Petitioner proposes to operate the Chestonia/Kearney CO₂ USP, and all the existing wells identified above, and any necessary additional wells, in concert, for the purpose of enhancing production of gas. In this regard, Petitioner may utilize one or more of the existing wells or new wells as an injector at any time and from time to time, subject to permitting requirements.
- 11. Enhanced recovery operations of the nature proposed by Petitioner are feasible, will prevent waste and will protect correlative rights. Article 2.6 of the Unitization Agreement authorizes such operations and other types of secondary, supplemental, enhanced and/or pressure maintenance operations.
- 12. Approval of the proposed CO₂ injections is reasonably necessary to substantially increase the ultimate recovery of gas from the proposed Unit Area. Petitioner estimates that the proposed

- unit operations will result in the recovery of significant additional millions of cubic feet of gas, as compared to continued operation of the Chestonia/Kearney CO₂ USP on primary production under the provisions of the applicable existing Orders described above.
- 13. The estimated additional cost of conducting unitized operations during the life of the unit will not exceed the value of the additional hydrocarbons recovered by the unitized operations.
- 14. All of the owners of interests in the oil, gas and minerals in the proposed Unitized Formation in the proposed USP are subject to oil and gas leases. Petitioner has submitted Form EQP 7200-23 for the establishment by the Supervisor of a USP that describes the same lands referred to in Paragraph 2 of this Petition as the Chestonia/Kearney CO₂ USP.
- 15. Pertinent geological and reservoir engineering data in support of the Petition are attached as follows:

<u>Exhibits</u>	<u>Description</u>
Е	Geological Cross Section
F	Field Structure Map of Antrim
G	Primary Production History
Н	Reservoir and Properties
1	Estimated Volumes in Place and Recoveries
j	Estimated Economics of the Project

- 16. The names and addresses of all persons owning a record interest in the surface, the oil, gas and minerals, and oil and gas leasehold interests, in the proposed Unitized Formation in the Chestonia/Kearney CO₂ USP are set forth in Attachment K. Also included in Attachment K are the names of the tax assessed owners, as per the Antrim County Treasurer's Office, within the proposed Unit Area.
- 17. "The Review, "P.O. Box 313, Bellaire, Michigan 49615, is a newspaper of general circulation in Antrim County, Michigan. The "Michigan Oil & Gas News, "P.O. Box 250, Mt. Pleasant, Michigan 48804-0250, is an oil and gas industry publication of general circulation in the State of Michigan. Each of the publications identified above qualifies for publication of legal notices.
- 18. Approval of the proposed Enhanced Recovery Operations, as set forth in this Petition, is reasonably necessary to substantially increase the ultimate recovery of natural gas from the Chestonia/Kearney CO₂ USP, and the type of operations proposed are feasible, will prevent waste, and will protect correlative rights.
- 19. The Petitioner's contact person to whom inquiries may be made is Mr. Phillip Koro at telephone number 231-995-4096. His address is set forth in Paragraph 1.

WHEREFORE, Petitioner requests that the Supervisor of Wells enter an order approving the injection of CO₂, nitrogen, water and such other appropriate substances as the Supervisor of Wells

shall approve in advance as proposed herein, providing the Chestonia/Kearney CO₂ USP shall be operated exclusive of and as an exception to Act No. 451, Public Acts of 1994, Part 615, and Order No. 14-9-94 and further providing that any such rules or orders shall be abrogated to the extent inconsistent with the proposed secondary recovery operation of the Chestonia/Kearney CO₂ USP and granting such further and additional relief as may be just and equitable.

Respectfully Submitted,

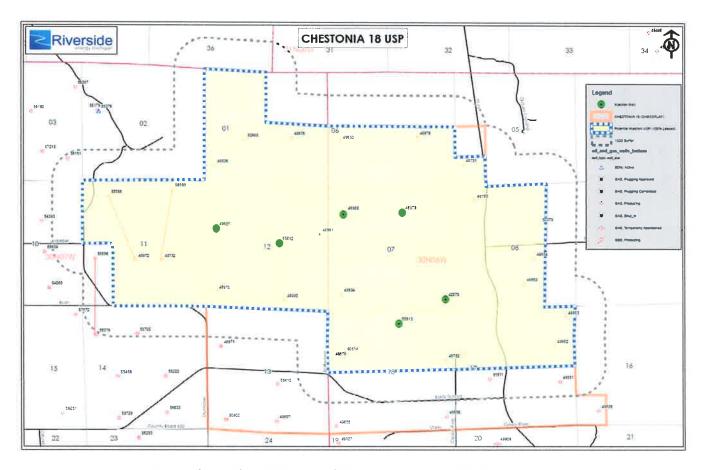
Worman & Dixon, PLC, Attorneys for Riverside Energy Michigan, LLC

Dated: February 27, 2020

By: Gary L. Worman 100 East Ash Street

P.O. Box 219

Mason, MI 48854-0219



Ownership within 1320 Feet of Outside Boundary of Unit Area

Name #1	Name #2	Address	City/State/Zip	Tax ID#	Town/Ranges	ectior	Brief Legal
State of Michigan		P.O. Box 3044B	Lansing, MJ 48909-7948	05-03-005-001-00	T30N, R6W	5	N/2 E of Hwy & NE/4 SE/4
State of Michigan		P.O. Box 30448	Lansing, MI 48909-7948	05-03-005-002-00	T30N, RGW	5	Pt SW/4 NW/4
Michigan Dept. of Treasury		P.O. Box 30028	Lansing, MI 48909-7948	05-03-005-004-00	T30N, RGW	5	Pt NE/4 SW/4
Jeffrey Swisher, Matt Swisher, Chris Swisher		P.O. Box 111	North Lawrence, OH 44666	05-03-005-005-00	T30N, R6W	5	Pt NE/4 SW/4
Michigan Nature Association		2310 Science Parkway, Suite 100	Okemos, MI 48864	05-03-005-007-00	T30N, R6W	5	SE/4 SW/4
Michigan Dept. of Treasury	Finance & Acct Div - PILT	P.O. Box 30722	Lansing, MI 48909	05-03-005-009-00	T30N, R6W	5	SE/4 SE/4 & Pt SW/4 SE/4
DNRE		P.O. Box 30028	Lansing, MI 48909-8235	05-03-005-010-00	T30N, R6W	5	W/4 SW/4 SE/4
Michigan Dept. of Treasury	Finance & Acct Div - PILT	P.O. Box 30722	Lansing, MR 48909	05-03-006-003-00	130N, RGW	6	Pt N/2 S/2 N/2
State of Michigan		P.O. Box 30448	Lansing, Mt 48909-7948	05-03-006-004-00	T30N, R6W	6	Pt SE/4 NE/4
State of Michigan		P.O. Box 30448	Lansing, MI 48909-7948	05-03-006-005-00	730N, R6W	6	Pt SE/4 NE/4
DNRE		P.O. Box 30028	Lansing, Mt 48909-8235	05-03-006-008-00	130N, R6W	6	Pt S/2 S/2 N/2
State of Michigan		P.O. Box 30448	Lansing, MI 48909-7948	05-03-006-009-00	T30N, RGW	6	Pt S/2 S/2 N/2
State of Michigan		P.O. Box 30448	Lansing, MI 48909-7948	05-03-008-001-00	T30N, RGW	8	E/2 E/2
State of Michigan		P.O. Box 30448	Lansing, MI 48909-7948	05-03-009-001-00	T30N, R6W	9	Entire Section
State of Michigan		P.O. Box 30448	Lansing, Mt 48909-7948	05-03-016-001-00	T30N, R6W	16	Entire Section exc SW/4 SW/4
Michigan Dept. of Treasury	Finance & Acct Div - PILT	P.O. Box 30722	Lansing, Mt 48909	05-05-036-007-00	T31N, R7W	36	S/2 N of RR ROW
Michigan Dept. of Treasury	Finance & Acct Div - PILT	P.O. Box 30722	Lansing, MI 48909	05-05-036-007-00	T31N, R7W	36	S/2 N of RR ROW
DNRE		P.O. Box 30028	Lansing, MJ 48909-8235	05-05-036-009-00	T31N, R7W	36	5E/45 of abandoned RR
State of Michigan		P.O. Box 30448	Lansing, MI 48909	05-09-031-008-00	T31N, RGW	31	S/2 SW/4 exc abandoned RR
State of Michigan		P.O. Box 30448	Lansing, MI 48909	05-09-031-016-00	T31N, R6W	31	Abandoned RR over 5/2 SW/4
Pole Star LLC		P.O. Box 712	Eastport, MJ 49627	05-10-001-001-00	T30N, R7W	1	S/2 & S/2 5/2 N/2 w/ exceptions
Pole Star LLC		P.O. Box 712	Eastport, MI 49627	05-10-001-001-00	T30N, R7W	1	5/2 & S/2 5/2 N/2 w/ exceptions
Pole Star LLC		P.O. Box 712	Eastport, MI 49627	05-10-001-001-00	T30N, R7W	1	5/2 & 5/2 5/2 N/2 w/ exceptions
DNRE		P.O. Box 30028	Lansing, ME 48909-8235	05-10-001-004-00	T30N, R7W	1	Part Nfrl3/4 N/2 & part S/2 S/2 N/2
DNRE		P.O. Box 30028	Lansing, Mi 48909-8235	05-10-001-004-00	T30N, R7W	1	Part Nfrl3/4 N/2 & part S/2 S/2 N/2
DNRE		P.O. Box 30028	Lansing, MI 48909-8235	05-10-001-064-00	T30N, R7W	1	Part Nfrl3/4 N/2 & part 5/2 S/2 N/2
Michigan Dept. of Treasury	Finance & Acct Div - PILT	P.O. Box 30722	Lansing, IMI 48909	05-10-002-001-00		2	E3/4 N3/4 N&W (& incl) RR ROW
James H. Coon & Marilyn C. Coon Trust		3667 E. 7 Mile Road	White Cloud, MI 49349	05-10-002-005-01	T30N, R7W	2	Pt SW/4 SW/4
John L Simonson	Tina M. Simonson	10296 M-86	Fife Lake, MI 49633	05-10-002-005-10	T36N, R7W	2	Pt SW/4 SW/4
Cherup Joint Trust		P.O. Box 362	Gaylord, MI 49734	05-10-002-006-20	T30N, R7W	2	Pt SW/4
Michael I. Laduc	Jennifer Lucad	11015 Shoreside Drive	Davisburg, MI 48350	05-10-002-006-00	T30N, R7W	2	Pt SE/4 SW/4
DNRE		P.O. Box 30028	Lansing, MI 48909-8235	05-10-002-007-00	T30N, R7W	2	Entire Section S&E of RR ROW
James H. Coon & Marilyn C. Coon Trust		3667 E. 7 Mile Road	White Cloud, MI 49349	05-10-003-007-10	T30N, R7W	3	Pt 5E/4 SE/4
William F. Jordan	Frances C. Jordan	7597 Cottage Drive	Bellaire, MI 49615	05-10-003-011-00	130N, R7W	3	Pt SE/4
Rosemary Kornacki		4648 Rivers Edge Drive	Truy, MI 48098	05-10-010-001-00	T30N, R7W	10	NE/4 NE/4 exc abandoned RR

Name #1 Michael Duve Phyllis Johnston, Teresa Ray	Name #2						
Phyllis Johnston, Teresa Ray	Nancy Duve	Address	City/State/Zlp		Town/Range		
		2280 Kladder Road	Bellaire, MI 49615	05-10-010-004-00	T30N, R7W	10	Pt S/2 NE/4
	Dale G. Reeves Jr., Sheila M. Reeves	2247 Kladder Road	Bellaire, MI 49615	05-10-010-005-00	T30N, R7W	10	Pt W/2 NE/4 SE/4
Frederick J. Anderson		1891 Montgomery Road	Bellaire, MI 49615	05-10-010-005-10	T30N, R7W	10	Pt NE/4 SE/4
Stephen D. Buck	Debra Buck	14211 Harrison Road	Romulus, MI 48174	05-10-010-005-20	T30N, R7W	10	Pt E/2 NE/4 SE/4
Roger Huckle		622 Trinity Street	Lockhart, TX 78644	05-10-010-006-00	T30N, R7W	10	
Raymond A. Harkabusic	Barbara Harkabusic	P.O. Box 1028	Bellaire, MI 49615				Pt SE/4 NE/4
Patrick A. Lacy	Barbara J. Lacy	2194 Kladder Road		05-10-010-008-00	T30N, R7W	10	Pt SE/4 NE/4
Control of the Control	Out Out 8 2 . Lacy	2194 Kladder Road	Bellaire, MI 49615	05-10-010-009-00	T30N, R7W	10	Pt SE/4 NE/4
State of Michigan		P.O. Box 30448	Lansing, MI 48909	05-10-010-021-00	T30N, R7W	10	and and the property of the service of
DNRE		P.O. Box 30028				_	Abandoned RR over E/2 NE/4
State of Michigan		The state of the s	Lansing, MI 48909-8235	05-10-011-005-00	T30N, R7W	11	W/25W/4 exc RR ROW exc SW/45W/4
		P.O. Box 30448	Lansing, MI 48909-7948	05-10-011-006-00	T30N, R7W	11	SW/45W/4
Arthur Koutnik	Roberta Koutnik	P.O. Box 121	Bellaire, MI 49615	05-10-014-001-00	T30N, R7W	14	Pt NE/4 NE/4
Arthur Koutnik	Roberta Koutnik	P.O. Box 121	Bellaire, MI 49615	05-10-014-001-00	T30N, R7W	14	Pt NE/4 NE/4
iteven P. Tucker	Diana J. Tucker	P.O. Box 810	Bellaire, MI 49615	The second district of the last of the las		-	
Steven P. Tucker		- (19 12-1912-1914-1914-1914-1914-1914-1914-19		05-10-014-006-00	T30N, R7W	14	W/2 NW/4 NE/4
	Diana J. Tucker	P.O. Box 810	Bellaire, MI 49615	05-10-014-006-00	T30N, R7W	14	W/2 NW/4 NE/4
William G, Linn	Kathleen S. Linn	1355 Bush Road	Bellaire, MI 49615	05-10-014-007-00	T30N, R7W	14	E/2 NW/4 NE/4
William G. Linn	Kathleen S. Linn	1355 Bush Road	Bellaire, MI 49615	05-10-014-007-00	T30N, R7W	14	E/2 NW/4 NE/4
Arthur Koutnik	Roberta Koutnik	P.O. Box 121	Bellaire, MI 49615	05-10-014-008-00	T30N, R7W	14	
Arthur Koutnik	Roberta Koutnik	The second secon					Pt NE/4 NE/4
		P.O. Box 121	Bellaire, MI 49615	05-10-014-008-00	T30N, R7W	14	Pt NE/4 NE/4
Raymond E. Moore	Judith A. Moore	1245 Bush Road	Bellaire, MI 49615	05-10-014-009-00	T30N, R7W	14	Pt NE/4 NE/4
Steven E. Rounds		1013 Bush Road	Bellaire, MI 49615	05-10-014-010-00	T30N, R7W	14	Pt SE/4 NE/4
Dean Land Group LLC		4 Appleshire Court	Freeland, MI 48623	05-10-014-011-00	T30N, R7W	14	Pt NW/4 E of RR ROW
Dean Land Group LLC		4 Appleshire Court					
Richard M. Moran	Barbara L. Moran		Freeland, MI 48623	05-10-014-011-00	T30N, R7W	14	Pt NW/4 E of RR ROW
		1705 Bush Road	Bellaire, MI 49615	05-10-014-012-00	T30N, R7W	14	E/2 E/2 NE/4 NW/4
Richard M. Moran	Barbara L. Moran	1705 Bush Road	Bellaire, MI 49615	05-10-014-012-00	T30N, R7W	14	E/2 E/2 NE/4 NW/4
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				05-10-014-012-00;			
Trudy Knip		P.O. Box 1069	Grayling, MI 49738	05-10-014-012-00,	T30N, R7W	14	E/2 E/2 NE/4 NW/4
		unand F.S.V. Calle			. Sort, RIVY		CIECIENCIA MWIA
				05-10-014-012-00;			
Arthella Trowbridge		211 W. Forest Home Ave	Bellaire, MI 49615	05-10-014-012-00;	T30N, R7W	14	E/2 E/2 NE/A NIM/A
		The state of the s		0.5-10-014-017-50	JUIT, R/W	14	E/2 E/2 NE/4 NW/4
ATAMA AND DESCRIPTION OF THE PROPERTY.			I	05-10-014-012-00;			
Artholla Trowbridge		613 E. Broad Street	Bellaire, MI 49615	05-10-014-012-20	T30N, R7W	14	E/2 E/2 NE/4 NW/4
					-		
				05-10-014-012-00;			
Mariene Vajda		P.O. Box 56	la 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
In the Copyrig		P.U. 50X 50	Bellaire, MI 49615	05-10-014-012-20	T30N, R7W	14	E/2 E/2 NE/4 NW/4
				05-10-014-012-00;			
Ruby Miller		117 Maple Street	River Rouge, MI 48218	05-10-014-012-20	T30N, R7W	14	E/2 E/2 NE/4 NW/4
					0.000	-	4,5,1,5,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
				05-10-014-012-00;			
III Hines		0.0 0. 000				harar.	L626-537-65-57-75-688-5
INI FILINES		P.O. Box 263	Central Lake, MI 9622	05-10-014-012-20	T30N, R7W	14	E/2 E/2 NE/4 NW/4
				05-10-014-012-00;			
Marvin Trowbridge		612 E. Broad Street	Bellaire, MI 49615	05-10-014-012-20	T30N, R7W	14	E/2.E/2.NE/4.NW/4
110000000000000000000000000000000000000		The second secon			10011,10010		L/LL/LING+HH/H
Devier Trowbridge		- WAR SANDER - CONTRACTOR OF CONTRACTOR	Carlotte and Carlo	05-10-014-012-00;			FI AGO E CONTRACTO DE PRODUCTO
Devier frowninge		211 W. Farest Home Ave	Bellaire, MI 49615	05-10-014-012-20	T30N, R7W	14	E/2 E/2 NE/4 NW/4
				05-10-014-012-00;			
Roy Trowbridge		5925 Fishermans Paradise Road	Bellaire, MI 49615	05-10-014-012-20	T30N, R7W	14	E/2 E/2 NE/4 NW/4
Albert A. Sieniarecki	Kari M. Sieniarecki	1811 Bush Road	Bellaire, MI 49615	05-10-014-012-15	T30N, R7W	14	Pt NE/4 NW/4
Albert A. Sieniarecki	Kari M. Sleniarecki					110012	0.0000000000000000000000000000000000000
THE THE HISTORY		1811 Bush Road	Bellaire, MI 49615	05-10-014-012-15	T30N, R7W		Pt NE/4 NW/4
Ober & Claudered)						14	Pt NE/4 NW/4
	Kari M. Sieniarecki	1811 Bush Road	Bellaire, MI 49615	05-10-014-012-15	T30N, R7W	14	PUNC/4 NVV/4
	Kari M. Sieniarecki Kristine Cool	1811 Bush Road P.O. Box 946	Bellaire, MI 49615 Bellaire, MI 49615		T30N, R7W	14	
Michael Cool	Kristine Cool	P.O. Box 946	Bellaire, MI 49615	05-10-014-012-15 05-10-014-012-20	T30N, R7W T30N, R7W	14 14	Pt NE/4 NW/4
Michael Cool Michael Cool		P.O. Box 946 P.O. Box 946	Bellaire, MI 49615 Bellaire, MI 49615	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20	T30N, R7W T30N, R7W T30N, R7W	14 14 14	Pt NE/4 NW/4 Pt NE/4 NW/4
Michael Cool Michael Cool Paul E. Dean & Janet M. Dean Trust	Kristine Cool	P.O. Box 946 P.O. Box 946 40 Appleshire Court	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W	14 14 14 14	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4 W of RR ROW
Michael Cool Michael Cool Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust	Kristine Cool	P.O. Box 946 P.O. Box 946 40 Appleshire Court 40 Appleshire Court	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W	14 14 14 14 14	Pt NE/4 NW/4 Pt NE/4 NW/4
Michael Cool Michael Cool Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Agribank, FCB	Kristine Cool Kristine Cool	P.O. Box 945 P.O. Box 945 40 Appleshire Court 40 Appleshire Court P.O. Box 64949	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W	14 14 14 14	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4 W of RR ROW
Michael Cool Michael Cool Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Agribank, FCB	Kristine Cool	P.O. Box 945 P.O. Box 945 40 Appleshire Court 40 Appleshire Court P.O. Box 64949	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 St. Paul, MN 55164-0949	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W	14 14 14 14 14	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4 W of RR ROW NW/4 W of RR ROW NE/4 exc 1 acre in SE corner
Michael Cool Michael Cool Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Agribanis, FCB Porter Mineral Right Trust	Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Truste	P.O. Box 946 P.O. Box 946 40 Appleshire Court 40 Appleshire Court P.O. Box 64949 se One Vandenberg Square	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 St. Paul, MN 55164-0949 Grand Rapids, MI 49503	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T31N, R7W	14 14 14 14 14 14 14 36	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4W of RR ROW NW/4W of RR ROW NE/4 exc 1 acre in SEcomer S/2 N of RR ROW
Michael Cool Michael Cool Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Agribank, FCB Porter Mineral Right Trust Porter Mineral Right Trust	Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Truste Old Kent Bank & Trust Company, Truste	P.O. Box 945 P.O. Box 946 40 Appleshire Court 40 Appleshire Court P.O. Box 64949 te One Vandenberg Square te One Vandenberg Square	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 Freeland, MI 48623 St. Paul, MN 55164-0949 Grand Rapids, MI 49503 Grand Rapids, MI 49503	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T31N, R7W T31N, R7W	14 14 14 14 14 14 36 36	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4W of RR ROW NW/4 W of RR ROW NE/4 exc 1 acre in SEcomer S/2 N of RR ROW S/2 N of RR ROW
Michael Cool Michael Cool Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Pagribank, FCB Orter Mineral Right Trust Orter Mineral Right Trust Orter Mineral Right Trust	Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Trust Old Kent Bank & Trust Company, Trust Old Kent Bank & Trust Company, Trust	P.O. Box 946 P.O. Box 946 40 Appleshire Court 40 Appleshire Court P.O. Box 64949 see One Vandenberg Square see One Vandenberg Square	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 51. Paul, MN 55164-0949 Grand Rapids, MI 49503 Grand Rapids, MI 49503 Grand Rapids, MI 49503	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T31N, R7W T31N, R7W T31N, R6W	14 14 14 14 14 14 36 36 31	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4 W of RR ROW NW/4 W of RR ROW NE/4 exc 1 acre in SE corner 5/2 N of RR ROW 5/2 N of RR ROW 5/2 N/4 exc abandoned RR
Michael Cool Michael Cool Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Parting the Mineral Right Trust Porter Mineral Right Trust Porter Mineral Right Trust Porter Mineral Right Trust	Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Truste	P.O. Box 946 P.O. Box 946 40 Appleshire Court 40 Appleshire Court P.O. Box 64949 ee One Vandenberg Square ee One Vandenberg Square ee One Vandenberg Square ee One Vandenberg Square	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 St. Paul, MN 55164-0949 Grand Rapids, MI 49503 Grand Rapids, MI 49503 Grand Rapids, MI 49503 Grand Rapids, MI 49503	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T31N, R7W T31N, R7W T31N, R6W T31N, R6W	14 14 14 14 14 14 36 36 31	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4 W of RR ROW NW/4 W of RR ROW NE/4 exc 1 acre in SE corner S/2 N of RR ROW S/2 N of RR ROW S/2 SW/4 exc abandoned RR Abandoned RR over S/2 SW/4
Michael Cool Michael Cool Zaul E, Dean & Janet M. Dean Trust Paul E, Dean & Janet M. Dean Trust Paul E, Dean & Janet M. Dean Trust Agribank, FCB Porter Mineral Right Trust	Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Truste	P.O. Box 946 P.O. Box 946 AD Appleshire Court 40 Appleshire Court P.O. Box 64949 se One Vandenberg Square se One Vandenberg Square ee One Vandenberg Square ee One Vandenberg Square ee One Ondenberg Square	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 51. Paul, MN 55164-0949 Grand Rapids, MI 49503 Grand Rapids, MI 49503 Grand Rapids, MI 49503	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T31N, R7W T31N, R7W T31N, R6W	14 14 14 14 14 14 36 36 31	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4 W of RR ROW NW/4 W of RR ROW NE/4 exc 1 acre in SE comer 5/2 N of RR ROW 5/2 N of RR ROW 5/2 N/4 exc abandoned RR
Michael Cool Michael Cool Auni E, Dean & Janet M. Dean Trust aul E, Dean & Janet M. Dean Trust agribank, FCB Forter Mineral Right Trust	Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Truste	P.O. Box 946 P.O. Box 946 AD Appleshire Court 40 Appleshire Court P.O. Box 64949 se One Vandenberg Square se One Vandenberg Square ee One Vandenberg Square ee One Vandenberg Square ee One Ondenberg Square	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 St. Paul, MN 55164-0949 Grand Rapids, MI 49503 Grand Rapids, MI 49503 Grand Rapids, MI 49503 Grand Rapids, MI 49503	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T31N, R7W T31N, R7W T31N, R6W T31N, R6W T30N, R7W	14 14 14 14 14 14 36 36 31	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4W of RR ROW NW/4 W of RR ROW NE/4 exc 1 acre in SEcomer S/2 N of RR ROW 5/2 N of RR ROW 5/2 N of RR ROW 5/2 SW/4 exc abandoned RR Abandoned RR over 5/2 SW/4 S/2 & 5/2 S/2 N/2 w/ exceptions
Michael Cool Michael Cool Auul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Partlenk, FCB Porter Mineral Right Trust	Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Trust	P.O. Box 946 P.O. Box 946 40 Appleshire Court 40 Appleshire Court P.O. Box 64949 see One Vandenberg Square	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 51. Paul, MN 55164-0949 Grand Rapids, MI 49503 Grand Rapids, MI 49503	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T31N, R7W T31N, R6W T31N, R6W T30N, R7W T30N, R7W	14 14 14 14 14 14 36 36 31 31 1	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4 W of RR ROW NW/4 W of RR ROW NE/4 exc 1 acre in SE corner \$/2 N of RR ROW \$/2 SW/4 exc abandoned RR Abandoned RR Rover \$/2 SW/4 \$/2 & \$/2 \$/2 N/2 w/ exceptions Part Nfrii3/4 N/2 & part 5/2 \$/2 N/2
Michael Cool Michael Cool Zaul E, Dean & Janet M. Dean Trust Zaul E, Dean & Janet M. Dean Trust Zaul E, Dean & Janet M. Dean Trust Zaribank, FCB Order Mineral Right Trust Porter Mineral Right Trust	Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Truste	P.O. Box 946 P.O. Box 946 And Spleshire Court AD Appleshire Court P.O. Box 64949 see One Vandenberg Square	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 51. Paul, MN 55164-0949 Grand Rapids, MI 49503 Grand Rapids, MI 49503	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T31N, R7W T31N, R6W T31N, R6W T31N, R6W T30N, R7W T30N, R7W T30N, R7W	14 14 14 14 14 36 36 31 31 1 1	Pt NE/4 NW/4 PtNE/4 NW/4 NW/4 W of RR ROW NW/4 W of RR ROW NE/4 exc 1 acre in SE corner 5/2 N of RR ROW 5/2 N of RR ROW 5/2 N/4 exc abandoned RR Abandoned RR Roer 5/2 SW/4 5/2 & 5/2 S/2 N/2 W/ exceptions Part Nfri3/4 N/2 & part 5/2 5/2 N/2 Pt SE/4 SE/4
Michael Cool Michael Cool Zaul E, Dean & Janet M, Dean Trust Paul E, Dean & Janet M. Dean Trust Paul E, Dean & Janet M. Dean Trust Paribank, FCB Porter Mineral Right Trust	Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Truste	P.O. Box 946 P.O. Box 946 40 Appleshire Court 40 Appleshire Court P.O. Box 64949 see One Vandenberg Square	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 St. Paul, MN 55164-0949 Grand Rapids, MI 49503 Grand Rapids, MI 49503	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T31N, R7W T31N, R7W T31N, R6W T31N, R6W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W	14 14 14 14 14 36 36 31 31 1 1 1 3	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4W of RR ROW NW/4 W of RR ROW NE/4 exc 1 acre in SEcomer 5/2 N of RR ROW 5/2 N of RR ROW 5/2 N of RR ROW 5/2 SW/4 exc abandoned RR Abandoned RR Over 5/2 SW/4 5/2 & 5/2 S/2 N/2 W/ exceptions Part Nfri3/4 N/2 & part 5/2 5/2 N/2 Pt SE/4 SE/4
Michael Cool Michael Cool Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Paribank, FCB Porter Mineral Right Trust	Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Truste	P.O. Box 946 P.O. Box 946 40 Appleshire Court 40 Appleshire Court P.O. Box 64949 see One Vandenberg Square	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 51. Paul, MN 55164-0949 Grand Rapids, MI 49503 Grand Rapids, MI 49503	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T31N, R7W T31N, R6W T31N, R6W T31N, R6W T30N, R7W T30N, R7W T30N, R7W	14 14 14 14 14 36 36 31 31 1 1	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4 W of RR ROW NW/4 W of RR ROW NE/4 exc 1 acre in SE corner 5/2 N of RR ROW 5/2 N of RR ROW 5/2 SW/4 exc abandoned RR Abandoned RR Roer 5/2 SW/4 5/2 & 5/2 S/2 N/2 W/2 exceptions Part Nfri3/4 N/2 & part 5/2 5/2 N/2 Pt SE/4 SE/4
Michael Cool Michael Cool Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Agribank, FCB Porter Mineral Right Trust	Kristine Cool Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Truste	P.O. Box 946 P.O. Box 946 And Spleshire Court An Appleshire Court An Appleshire Court P.O. Box 64949 Be One Vandenberg Square Be One Vandenberg Square Be One Vandenberg Square Be One Vandenberg Square Cone Vandenberg Square	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 St. Paul, MN 55164-0949 Grand Rapids, MI 49503	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T31N, R7W T31N, R6W T31N, R6W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W	14 14 14 14 14 14 36 36 31 31 1 1 3 3 10	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4W of RR ROW NW/4W of RR ROW NE/4 exc a acre in SE corner S/2 N of RR ROW S/2 SW/4 exc abandoned RR Abandoned RR over S/2 SW/4 S/2 & S/2 S/2 N/2 W/2 exceptions Pan Nfri3/4 N/2 & part S/2 S/2 N/2 Pt SE/4 SE/4 Pt SE/4 NE/4 NE/4 exc abandoned RR
Michael Cool Michael Cool Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Paribank, FCB Porter Mineral Right Trust	Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Truste	P.O. Box 946 P.O. Box 946 AD Appleshire Court 40 Appleshire Court P.O. Box 64949 see One Vandenberg Square	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 St. Paul, MN 55164-0949 Grand Rapids, MI 49503 Grand Rapids, MI 49503	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T31N, R7W T31N, R7W T31N, R6W T31N, R6W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W	14 14 14 14 14 36 36 31 31 1 1 1 3	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4W of RR ROW NW/4 W of RR ROW NE/4 exc 1 acre in SEcomer 5/2 N of RR ROW 5/2 N of RR ROW 5/2 N of RR ROW 5/2 SW/4 exc abandoned RR Abandoned RR Over 5/2 SW/4 5/2 & 5/2 S/2 N/2 W/ exceptions Part Nfri3/4 N/2 & part 5/2 5/2 N/2 Pt SE/4 SE/4
Michael Cool Michael Cool Audi E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Paribank, FCB Porter Mineral Right Trust	Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Truste	P.O. Box 946 P.O. Box 946 AD Appleshire Court 40 Appleshire Court P.O. Box 64949 see One Vandenberg Square	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 St. Paul, MN 55164-0949 Grand Rapids, MI 49503 Grand Rapids, MI 49503	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T31N, R7W T31N, R6W T31N, R6W T31N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W	14 14 14 14 14 14 36 36 31 31 1 1 3 3 10	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4W of RR ROW NW/4 W of RR ROW NE/4 exc 1 acre in SEcomer 5/2 N of RR ROW 5/2 N of RR ROW 5/2 N of RR ROW 5/2 SW/4 exc abandoned RR Abandoned RR over 5/2 SW/4 5/2 & 5/2 S/2 N/2 W/ exceptions Part Nfri3/4 N/2 & part 5/2 5/2 N/2 Pt SE/4 SE/4 Pt SE/4 NE/4 NE/4 exc abandoned RR Abandoned RR over E/2 NE/4
Michael Cool Michael Cool Audi E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Paribank, FCB Porter Mineral Right Trust	Kristine Cool Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Truste	P.O. Box 946 P.O. Box 946 AD Appleshire Court 40 Appleshire Court P.O. Box 64949 see One Vandenberg Square	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 St. Paul, MN 55164-0949 Grand Rapids, MI 49503	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T31N, R7W T31N, R7W T31N, R6W T31N, R7W T31N, R7W T30N, R7W	14 14 14 14 14 36 36 31 31 1 1 3 3 10	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4W of RR ROW NW/4 W of RR ROW NE/4 exc 1 acre in SEcorner S/2 N of RR ROW S/2 N of RR ROW S/2 N of RR ROW S/2 SW/4 exc abandoned RR Abandoned RR over S/2 SW/4 S/2 & S/2 S/2 N/2 W/ exceptions Part Nfri3/4 N/2 & part S/2 S/2 N/2 Pt SE/4 SE/4 NE/4 NE/4 exc abandoned RR Abandoned RR over E/2 NE/4 NW/4 W of RR ROW
Michael Cool Michael Cool Jaul E, Dean & Janet M, Dean Trust Jaul E, Dean & Janet M, Dean Janet M, Dean M, Dean Trust Janet M, Dean M, Dean Trust Janet M, Dean M, Dean Trust Janet M, De	Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Truste	P.O. Box 946 P.O. Box 946 P.O. Box 946 40 Appleshire Court 40 Appleshire Court 40 Appleshire Court P.O. Box 64949 see One Vandenberg Square	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 St. Paul, MN 55164-0949 Grand Rapids, MI 49503 Bellaire, MI 49503	05-10-014-012-15 05-10-014-012-20 05-10-014-013-20 05-10-014-013-00 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T31N, R7W T31N, R6W T31N, R6W T30N, R7W	14 14 14 14 14 14 36 36 31 31 1 1 3 3 10	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4W of RR ROW NW/4 W of RR ROW NE/4 exc a acre in SEcomer S/2 N of RR ROW S/2 SW/4 exc abandoned RR Abandoned RR over S/2 SW/4 S/2 & S/2 S/2 N/2 W/2 exceptions Pan Nfri3/4 N/2 & part S/2 S/2 N/2 Pt SE/4 SE/4 Pt SE/4 NE/4 NE/4 exc abandoned RR Abandoned RR over E/2 NE/4 NW/4 W of RR ROW NW/4SW/4 LYING WEST OF HWY. M-32
Michael Cool Michael Cool Zaul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Paul E. Dean & Janet M. Dean Trust Partiank, FCB Porter Mineral Right Trust Porter Mineral Righ	Kristine Cool Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Truste	P.O. Box 946 P.O. Box 946 A.O. Box 946 A.O. Box 946 A.O. Box 6494 B.O. Box 6494 B.O. Box 6494 B.O. Vandenberg Square B.O. P.O. Andenberg Square B.O. P.O. Box 6494 B.O. Box 6494 B.O. Box 6494 B.O. Vandenberg Square B.O. P.O. Wandenberg Square B.O. One Vandenberg Square B.O. Vandenberg Square B.O. Wandenberg Square B.O. Wand	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 St. Paul, MN 55164-0949 Grand Rapids, MI 49503 Bellaire, MI 49503 Grand Rapids, MI 49503 Bellaire, MI 49515-0888 Lansing, MI 48903-7948	05-10-014-012-15 05-10-014-012-20 05-10-014-012-20 05-10-014-013-00	130N, R7M 130N, R7W 130N, R7W 130N, R7W 130N, R7W 130N, R7W 131N, R7W 131N, R6W 131N, R6W 130N, R7W	14 14 14 14 14 14 14 36 36 31 31 1 1 3 3 10	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4W of RR ROW NW/4W of RR ROW NE/4 exc 1 acre in SE corner 5/2 N of RR ROW 5/2 N of RR ROW 5/2 N of RR ROW 5/2 SW/4 exc abandoned RR Abandoned RR over 5/2 SW/4 5/2 & 5/2 S/2 N/2 W/ exceptions Part Nfri3/4 N/2 & part 5/2 5/2 N/2 Pt SE/4 A Pt SE/4 NE/4 NE/4 exc abandoned RR Abandoned RR over E/2 NE/4 NW/4W/4 LYING WEST OF HWY, M-32 NW/4SW/4 LYING WEST OF HWY, M-32
Michael Cool Michael Cool Michael Cool Zaul E, Dean & Jamet M, Dean Trust Zaul E, Dean & Jamet M. Dean	Kristine Cool Kristine Cool Cool Kristine Cool Kristine Cool Cool Kent Bank & Trust Company, Truste Old Kent Bank & Trust Company, Truste	P.O. Box 946 P.O. Box 946 P.O. Box 946 40 Appleshire Court 40 Appleshire Court 40 Appleshire Court P.O. Box 64949 see One Vandenberg Square	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 St. Paul, MN 55164-0949 Grand Rapids, MI 49503 Bellaire, MI 49615-0888 Lansing, MI 49615-0888 Lansing, MI 49503-0848 St. Paul, MN 55164-0949	05-10-014-012-15 05-10-014-012-20 05-10-014-013-20 05-10-014-013-00 05-10-014-013-00	T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T30N, R7W T31N, R7W T31N, R7W T31N, R6W T31N, R6W T30N, R7W	14 14 14 14 14 14 14 36 36 31 31 1 1 3 3 10 10 14 5 5 13	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4W of RR ROW NW/4W of RR ROW NE/4 exc a acre in SE corner S/2 N of RR ROW S/2 N of RR ROW S/2 N of RR ROW S/2 N/4 exc abandoned RR Abandoned RR over S/2 SW/4 S/2 & S/2 S/2 N/2 W/6 exceptions Pan Nfri3/4 N/2 & part S/2 S/2 N/2 Pt SE/4 Pt SE/4 NE/4 NE/4 exc abandoned RR Abandoned RR over E/2 NE/4 NW/4 W of RR ROW NW/4 W/4 LYING WEST OF HWY. M-32
Michael Cool Michael Cool Jaul E, Dean & Janet M, Dean Trust Jaul E, Dean & Janet M, Dean Jaul E, Dean & Janet M, Dean Trust Janet M, Dean M, Dean Trust Janet M, Dean Trust	Kristine Cool Kristine Cool Kristine Cool Old Kent Bank & Trust Company, Truste P.O. Box 988	P.O. Box 946 P.O. Box 946 A.O. Box 946 A.O. Box 946 A.O. Box 6494 B.O. Box 6494 B.O. Box 6494 B.O. Vandenberg Square B.O. P.O. Andenberg Square B.O. P.O. Box 6494 B.O. Box 6494 B.O. Box 6494 B.O. Vandenberg Square B.O. P.O. Wandenberg Square B.O. One Vandenberg Square B.O. Vandenberg Square B.O. Wandenberg Square B.O. Wand	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 St. Paul, MN 55164-0949 Grand Rapids, MI 49503 Bellaire, MI 49503 Grand Rapids, MI 49503 Bellaire, MI 49515-0888 Lansing, MI 48903-7948	05-10-014-012-15 05-10-014-012-20 05-10-014-013-20 05-10-014-013-00 05-10-014-013-00	130N, R7M 130N, R7W 130N, R7W 130N, R7W 130N, R7W 130N, R7W 131N, R7W 131N, R6W 131N, R6W 130N, R7W	14 14 14 14 14 14 14 36 36 31 31 1 1 3 3 10	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4W of RR ROW NW/4W of RR ROW NE/4 exc 1 acre in SE corner 5/2 N of RR ROW 5/2 N of RR ROW 5/2 N of RR ROW 5/2 SW/4 exc abandoned RR Abandoned RR over 5/2 SW/4 5/2 & 5/2 S/2 N/2 W/ exceptions Part Nfri3/4 N/2 & part 5/2 5/2 N/2 Pt SE/4 A Pt SE/4 NE/4 NE/4 exc abandoned RR Abandoned RR over E/2 NE/4 NW/4W/4 LYING WEST OF HWY, M-32 NW/4SW/4 LYING WEST OF HWY, M-32
Michael Cool Michael Cool Jaul E, Dean & Janet M, Dean Trust Jaul E, Dean & Janet M, Dean Jaul E, Dean & Janet M, Dean Trust Janet M, Dean M, Dean Trust Janet M, Dean Trust	Kristine Cool Kristine Cool Cool Kristine Cool Kristine Cool Cool Kent Bank & Trust Company, Truste Old Kent Bank & Trust Company, Truste	P.O. Box 946 P.O. Box 946 A.O. Box 946 A.O. Box 946 A.O. Box 6494 B.O. Box 6494 B.O. Box 6494 B.O. Vandenberg Square B.O. P.O. Andenberg Square B.O. P.O. Box 6494 B.O. Box 6494 B.O. Box 6494 B.O. Vandenberg Square B.O. P.O. Wandenberg Square B.O. One Vandenberg Square B.O. Vandenberg Square B.O. Wandenberg Square B.O. Wand	Bellaire, MI 49615 Bellaire, MI 49615 Freeland, MI 48623 Freeland, MI 48623 St. Paul, MN 55164-0949 Grand Rapids, MI 49503 Bellaire, MI 49503	05-10-014-012-15 05-10-014-012-20 05-10-014-013-00 05-10-014-013-00 05-10-014-013-00 05-00-0014-013-00 05-03-005-001-00 05-10-013-001-00	130N, R7W 130N, R7W 130N, R7W 130N, R7W 130N, R7W 130N, R7W 131N, R7W 131N, R6W 131N, R6W 130N, R7W	14 14 14 14 14 14 36 36 31 31 1 1 3 3 10 10 14 5 5 13 13 13	Pt NE/4 NW/4 Pt NE/4 NW/4 NW/4 W of RR ROW NW/4 W of RR ROW NE/4 exc a acre in SE corner S/2 N of RR ROW S/2 N/4 exc abandoned RR Abandoned RR over S/2 SW/4 S/2 & S/2 S/2 N/2 W/2 exceptions Pan Nfri3/4 N/2 & part S/2 S/2 N/2 Pt SE/4 Pt SE/4 NE/4 NE/4 exc abandoned RR Abandoned RR over E/2 NE/4 NW/4 W of RR ROW NW/4SW/4 LYING WEST OF HWY, M-32 NW/4SW/4 LYING EAST OF HWY, M-32 N/2
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UNI ZATION AGREEMENT

CHESTONIA 18 UNIT (CHESS PLAY UNIT)

STATE OF MICHIGAN	
)
COUNTY OF ANTRIM	1

This Agreement, made and entered into as of the 25 day of June, 1994, by and between Lee's Petroleum L.L.C., a Michigan limited liability corporation of P.O. Box 213, Acme, Michigan 49610, and all other parties owning Oil and Gas Rights in the Unitized Area who execute either this Agreement or an instrument ratifying and adopting the provisions of this Agreement.

WITNESS

Whereas, the parties to this Agreement own Oil and Gas rights in the Unitized Area; and

Whereas, the parties to this Agreement desire to encourage exploration and development of the Unitized Area by enabling the use of common gathering lines, separators, water disposal, compression and other producing facilities, and to that end they desire to provide for the exploration and for the development and production of Unitized Substances in and from the Unitized Area on a unitized basis;

Now, Therefore, in consideration of the premises and of the mutual agreements herein contained, it is agreed as follows:

ARTICLE I DEFINITIONS:

- 1.1. The term "Interest Owner" as used in this Agreement means an owner of Oil and Gas Rights in the Unitized Area who is a party to this Agreement, or such owner's successor in interest.
- 1.2. The term "Oil and Gas Rights" as used in this Agreement means the rights to explore, develop and operate lands within the Unitized Area for the production of Unitized Substances pursuant to Unitized Leases, or to share in the production so obtained or the proceeds thereof. Said term includes the contractual right or option to acquire any such rights.
- 1.3. The term "Operator" as used in this Agreement means Lee's Petroleum L.L.C., or its successors in the capacity of Operator of the Unitized Area pursuant to the applicable Operating Agreement.
 - 1.4. The term "Unitized Area" as used in this Agreement means all Unitized Formations within the following lands:

Township 30 North, Range 6 West, Chestonia Township, Antrim County Michigan:

Section 5: The West-half of the Southwest-Quarter;
Section 6: The South-half;
Section 7: The Entire Section;

Section 8: The West Three-quarters of the Section:

Section 16: The Southwest-quarter of the Southwest-quarter;

Section 17: The Entire Section; Section 18: The Entire Section;

Township 30 North, Range 7 West, Kearney Township (East Part), Antrim County Michigan:

Section 1: The South Three-quarters of the Section;

Section 11: The Southeast-quarter and the East-half of the Southwest-quarter;

Section 12: The Entire Section;

Section 13: The North-half and the Southeast-quarter and the North-half of the Southwest-quarter;

provided, however, that Operator is authorized, at any time and from time to time subsequent to 36 months from the date of this Agreement, to delete any quarter-quarter section of land from the Unitized Area if and whenever (1)(a) there is at that time no well on such quarter-quarter section, which, in the opinion of the Operator, is capable of producing any of the Unitized Substances in paying quantities and (b) the owners of those Oil and Gas Rights within such quarter-quarter section which have become subject to this Agreement as of that time, if any, shall have requested or consented to the deletion of such lands from the Unitized Area, or (2) Operator has been unable to secure the

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consent by the Interest Owner. It Oil and Gas Rights within such quarter-(section to the terms of this Agreement. Any such deletion of lands by operator as aforesaid shall be effected by filling of record in the Office of the Register of Deeds for Antrim County, Michigan, a declaration or affidavit setting forth such deletion of lands from the Unitized Area subject to this Agreement.

- 1.5. The term "Unitized Formations" as used in this Agreement means all formations and strata between the surface of the earth and the base of the Amrim Formation, together with the right to dispose of produced brine and other effluent in formations below the bottom of the Antrim Formation.
- 1.6. The term "Unitized Lease" means each of the following oil and gas leases, insofar only as they cover lands and formations within the Unitized Area:
 - (a) All oil and gas leases covering lands within the Unitized area which Operator now owns in whole or in part or which to Operator acquires in whole or in part at any time within three years from the date of this Agreement, but only insofar as such leases cover lands as to which Operator owns, or acquires within said three years, the entire leasehold interest or an undivided fractional share of the leasehold interest; and
 - (b) All oil and gas leases covering lands within the Unitized Areas to which Operator now has, or acquires at any time within three years from the date of this Agreement, a farmout agreement or other contractual arrangement giving Operator exploration and development rights as to the Unitized Formations; provided, however, that if Operator's exploration and development rights expire or Operator's interest terminates as to any such lease or part thereof, by reason of Operator's not having met the conditions necessary to earn or retain same under the terms of the applicable farmout agreement or other contractual arrangement, such lease or part thereof shall not thereafter be subject to this Agreement or deemed a Unitized Lease unless either (1) Operator acquires a subsequent farmout agreement or other contractual arrangement covering such lease at any time within three years from the date of this Agreement, or (2) such lease becomes a Unitized Lease pursuant to subsection (a) above or subsection (c) below; and
 - (c) All oil and gas leases covering lands within the Unitized Area which are subject to an operating agreement entered into by Operator and other persons at any time during the term of this Agreement, if and insofar as Operator and all other parties to such operating agreement agree to commit any such lease to this Agreement as a Unitized Lease hereunder;

Operator may from time to time prepare and attach to this Agreement an Exhibit A and supplements thereto identifying specifically the oil and gas leases, or portions thereof, subject to this Agreement.

1.7. The term "Unitized Substances" as used in this Agreement means all oil, gas and other hydrocarbons, and any associated sulfur and other minerals in and under and which may be produced from the Unitized Area.

ARTICLE II

CREATION AND EFFECT OF UNIT

- 2.1. All Oil and Gas rights of the parties to this Agreement in the Unitized Area are hereby pooled, consolidated and unitized into a single unit for the operation for and development and production of Unitized Substances.
- 2.2. The provisions of the Unitized Leases and the various agreements and other instruments pertaining to the Oil and Gas Rights of the Interest Owners in the Unitized Area are amended to the extent necessary to make them conform to the provisions of this Agreement, but otherwise shall remain in full force and effect.
- 2.3. Any well drilled by Operator on the Unitized Area pursuant to the terms of any Unitized Lease and all operations with respect to any such well, and all production therefrom, shall be considered to be a well drilled and operations and production under the terms of each and every Unitized Lease for all purposes pertaining to the Unitized Leases, except determining payment of royalty.
- 2.4. All wells drilled on the Unitized Area shall be considered to be, and shall be treated as, only one single well for purposes of computing any shut-in royalty payable under any Unitized Leases; and where Unitized Leases provide for calculation of shut-in royalty on the basis of a specified amount per acre, then, notwithstanding any provision contained in Unitized Leases, the number of acres utilized for the purposes of the calculation of the payment of the shut-in royalty payable under any such Unitized Lease shall be the number of net mineral acres within the Unitized Area which are subject to such Unitized Lease.
- 2.5. Nothing in this Agreement shall be construed to result in the transfer of title to any Oil and Gas Rights by any Interest Owner to any other Interest Owner.

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- 2.6. Operator is granted the conject any substances into the formations the Unitized Area, in whatever amounts Operator deems expedient for unit operators, together with the right to drill, use and managin injection wells on the Unitized Area and to use for injection purposes any non-producing or abandoned wells or dry holes, and any producing wells completed in the Unitized Formations, without liability for any damage to the Unitized Formations.
- 2.7. There shall be no obligation on the part of Operator to drill offset wells on separate tracts into which the lands in the Unitized Area are now divided or may hereafter be divided, nor to keep, maintain or store Unitized Substances produced from any part of the Unitized Area separately or apart from the Unitized Substances produced from any other part of the Unitized Area.
- 2.8. There shall be no obligation on the part of Operator to meter separately the production of Unitized Substances from the individual wells within the Unitized Area. A master meter or metering facility may be utilized to measure the production of Unitized Substances from the wells within the Unitized Area on a combined basis for royalty purposes.
- 2.9. Operator may use or consume Unitized Substances for unit operations, including but not limited to the injection thereof into the Unitized Formations. No royalty, overriding royalty, production or other payments shall be payable on account of Unitized Substances used, lost or consumed in unit operations.

ARTICLE III

ALLOCATION OF UNITIZED SUBSTANCES

- 3.1. An equal share of all unitized Substances produced from the Unitized Area pursuant to Unitized Leases shall be allocated to each government surveyed quarter-quarter section of land within the Unitized Area; provided, however, that a fractional quarter-quarter section of land shall be allocated only a fraction of a share of such Unitized Substances, the numerator of which fraction shall be the number of acres in such fractional quarter-quarter section of land, as indicated by the government survey or other survey, and the denominator of which shall be 40; and further provided, however, that as to any quarter-quarter section of land in which the Oil and Gas Rights subject to this Agreement do not include the entire interest in Oil and Gas in the Unitized Formations in such quarter-quarter section of land, the share that would otherwise be allocated to such quarter-quarter section of land shall be reduced to that proportionate part of such share which is represented by a fraction, the numerator of which shall be the number of net mineral acres in such quarter-quarter section which are subject to this Agreement and the denominator of which shall be 40 (unless the quarter-quarter section is a fractional quarter-quarter section, in which case the denominator shall be the number of acres in such fractional quarter-quarter section as indicated by the government survey or other survey). The amount of Unitized Substances thus allocated to each such quarter-quarter section of land, regardless of whether the amount is more or less than the acrual production of Unitized Substances, if any, from the well or wells on such quarter-quarter section, shall be deemed for all purposes to have been produced therefrom.
- 3.2. The Unitized Substances allocated to each quarter-quarter section of land shall be distributed among, or accounted for to, the persons entitled to share in the production from such quarter-quarter section in the same manner, in the same proportions, and upon the same conditions, as they would have shared in the production from such quarter-quarter section, or in the proceeds thereof, had this Agreement not been entered into. If any Oil and Gas Rights in the quarter-quarter section are owned in severalty as to different parts thereof, the owners of the divided interests, in the absence of any agreement providing for a different division, shall share in the Unitized Substances allocated to the quarter-quarter section, or in the proceeds thereof, in proportion to the surface acreage of their respective parts of the quarter-quarter section.
- 3.3. Nothing contained in this Agreement shall affect or change the ownership of any shut-in royalty that may become payable under the terms of any of the Unitized Leases.
- 3.4 Nothing in this Agreement shall affect or change any otherwise agreed upon allocation of Unitized Substances as between working interest owners under Unitized Leases. In the event of any conflict between the provisions of this Agreement and the provisions of any Operating Agreement or other agreement between working interest owners under Unitized Leases, the provisions of such Operating Agreement or other agreement shall control as between the parties thereto and their successors in interest.

ARTICLE IV EASEMENTS

4.1. The parties to this Agreement, to the extent of their respective rights and interests, grant to Operator, for so long as this Agreement remains in effect, an easement to construct, operate, maintain, repair and replace pipelines across the Unitized Area for the purpose of transporting oil, gas and/or other fluids produced from the Unitized Area. The parties to this Agreement, to the extent of their rights and interests, also grant to Operator, for so long as this Agreement remains in effect, an easement to inject and dispose of, in formations above or below the base of the Antrim formation, salt water and other fluids produced in connection with the production of Unitized Substances.

Page 3 of 5 Pages.

WWW. ASSESSED.

ARTICLE V

DITTON OF LANDS TO UNITIZED AREAS

5.1. Subject to the approval of the Real Estate Division of the Department of Natural Resources, if Operator determines that additional lands should be included in the Unitized Area so as to more efficiently produce Unitized Substances in accordance with product oil and gas production practices, Section 1.4 of this Agreement shall thereby be amended to include said additional lands within the Unitized Area, subject to the terms of this Agreement.

ARTICLE VI TERM OF AGREEMENT

6.1. This Agreement shall be effective as of the date of this Agreement, as above first written, and shall be and remain in full force and effect for the longer of (a) 36 months from the date of this Agreement, as above first written, or (b) until the last well coproducing Unitized Substances from the Unitized Area is plugged and abandoned; provided, however, that at any time when, in the opinion of Operator, there is no well in the Unitized Area capable of producing any of the Unitized Substances in paying quantities and no drilling or reworking operations are then being conducted thereon to obtain or restore production, Operator may terminate this Agreement by filing for record in the offices of the Register of Deeds for Antrim County, Michigan, a declaration or affidavit of termination of this Agreement.

ARTICLE VII EXECUTION

7.1. An owner of Oil and Gas Rights may become a party to this Agreement by signing the original of this instrument, or a counterpart thereof, or other instrument ratifying and adopting the provisions of this Agreement. The execution of any such instrument shall have the same effect as if all parties had signed the same instrument.

ARTICLE VIII GENERAL

- 8.1. Nothing in this Agreement shall be construed to create an association or to impose a partnership duty, obligation or liability with regard to any of the parties to this Agreement. Each party shall be individually responsible for such party's own obligations as provided for in this Agreement.
- 8.2. Any conveyance of an interest owned by any party to this Agreement in the Unitized Area shall be made expressly subject to this Agreement. No change in ownership shall be binding upon Operator, or upon any party to this Agreement other than the party so transferring, until the first day of the calendar month next succeeding the date of receipt by Operator of a copy of the recorded instrument evidencing such change in ownership.
- 8.3. If any part of this Agreement is declared invalid by any court or agency of competent jurisdiction, the remainder of this Agreement shall not be affected thereby.
- 8.4. If for any reason a person owning Oil and Gas Rights in the Unitized Area does not become a party to this Agreement, this Agreement shall nevertheless be effective as between all persons who do become parties to this Agreement.
- 8.5. The terms and provisions of this Agreement shall constitute covenants running with and binding the land and leasehold estates, and shall be binding upon and inure to the benefit of the parties hereto, and their respective heirs, successors and assigns.
- 6.6. This Agreement shall be subject to all applicable laws, rules and regulations by the governmental authority having jurisdiction over the operations described herein, notwithstanding anything to the contrary contained herein.
- 8.7. The Operator shall provide the Real Estate Division in January of each year, a listing of the location and completion dates of the wells completed the previous year.

In Witness Whereof, this Agreement is executed as of the day and year first above written.

WITNESSES:

Dennis T. Couturier

Jose C. Popa

LEE'S PETROLEUM L.L.C

Dwain Provins

President

Page 4 of 5 Pages.

482520000

And the market state of		OWNER:	LID 13 PG.	1147
STATE OF MIC COUNTY OF C On this _28 Dwain Provins,	CHIGAN) JRAND TRAVERSE) day of June, 1994, before me a no to me known to be the President of the did the foregoing instrument and as	of Lee's Petroleum L.L.C., a cknowledged the same to be the control of the contro	Michigan limited liabile free act and deed of	lity corporation on behalf of said corporation.
STATE OF MI)	Acting in Grand To	ary Public, Leelanau C caverse County, Michi apires June 29, 1997.	County, Michigan
The for	regoing instrument was acknowled;	ged before me this d	ay of	, 1994 by
		My commission expires:	Notary Public,	County
Prepared By:	Patrick J. Riley, P.O. Box 173,	Jackson, MI 49204		
				ANTRIM COUNTY MICHIGAN RECEIVED FOR 12: 26 Ubanda G. Carrios REGISTER OF DEEDS

Page 5 of 5 Pages.

CHESS PLAY

	CRESSFLAI				
		SPUD	COMP	MPSC	ON
		DATE	DATE	DATE	LINE
	BURNETT A1-8	9/2/9	4 12/1/94	2/13/95	10/16/95
2	KUNZ B1-18	9/30/9	4 11/10/94	2/13/95	10/2/95
3	MOORE C3-11	7/23/9	4 8/3/94	10/24/95	10/24/95
4	GREEN RIVER D4-7	12/14/8	9 12/22/89	9/13/95	2/6/96
5	KUNZ B4-18	8/27/9	4 9/18/95	10/16/95	10/16/95
б	BURNETT A3-7	6/19/9	5 9/23/95	10/27/95	10/27/95
7	KAFI B4-12	6/20/9	5 9/26/95	10/27/95	11/27/95
8	BURNETT A1-7	3/27/9	5 9/30/95	10/27/95	10/27/95
9	BURNETT D3-12	6/18/9	5 9/29/95	10/27/95	12/13/95
10	KOTZ C2-11	6/16/9	5 9/28/95	10/27/95	12/10/95
11	KAFI B1-12	8/5/9	5 9/29/95	10/27/95	12/29/95
12	BURNETT D1-12	8/8/9	5 9/30/95	10/27/95	11/21/95
13	KOUTNIK B1-13	6/14/9	5 9/18/95	10/27/95	10/27/95
14	BURNETT C3-6	6/26/9	5 9/21/95	10/27/95	10/27/95
15	BURNETT D1-7	6/16/9	5 9/28/95	10/27/95	10/27/95
16	BURNETT C1-6	6/2/9	5 10/2/95	10/27/95	10/27/95
17	BURNETT D1-5	10/31/9	4 9/22/95	10/27/95	10/27/95
	KAFI C3-1	6/24/9			11/22/95
19	STALL D4-18	7/3/9	5 11/20/95	12/19/95	1/13/96
	KLADZYK D3-13	8/12/9			
	RANKIN DI-18	8/14/9			
	KAFI D1-I	2/17/9		4/26/96	
	DEVRIESE B3-8	10/10/9			
	KAFI C2-1	2/20/9			
	THOMPSOND3-8	9/2/9			
	GUSTAV D1-13	1/22/9			
	' URBAN B4-17	8/25/9			
	URBAN C4-17	8/22/9			
	CUCA C3-8	8/30/9			
	RITT D1-16	8/20/9			
31	WRIGHT A4-17	8/25/9	3/28/9	5/1/96	5/1/96



Instrument Liber Page 2008000007647 UR 784 283

200800007647
Filed for Record in
AHTRIM COUNTY MICHIGAM
PATTY HIEPOTH - 268
09-09-2008 At 11:23 mm.
046 AMEND 26.00
OR Liber 784 Page 283 - 286

FOURTH AMENDMENT OF UNITIZATION AGREEMENT (Chestonia 18 Unit)

WHEREAS, a Unitization Agreement dated June 28, 1994, recorded in Liber 413, Page 1143, et seq., a certain Amendment to Unitization Agreement, dated May 10, 1995, recorded in Liber 427, Page 1444, et seq., a certain Amendment to Unitization Agreement, dated January 25, 1996, recorded in Liber 440, Page 1343, et seq., and a certain Third Amendment to Unitization Agreement, dated April 24, 2007, effective May 15, 2007, recorded in Liber 767, Page 3016, et seq., were recorded in the office of the Register of Deeds for Antrim County, Michigan, hereinafter referred to as "Agreement,"; and

WHEREAS, Atlas Gas & Oil Company, LLC, ("Atlas"), a Michigan limited liability company, of 1501 Cass Street, Suite B, Traverse City, Michigan 49684 is the current operator of the Chestonia 18 Unit; and

WHEREAS, said Agreement, describes and establishes a "Unit Area" covering certain lands within Antrim County, Michigan to-wit:

Township 30 North - Range 6 West, Chestonia Township

Section 05: NE/4 SW/4, W/2 SW/4

16

Section 06: S/2

Section 07: Entire Section

Section 08: W 3/4

Section 16: SW/4 SW/4

Section 17: Entire Section

Section 18: Entire Section

Township 30 North - Range 7 West, Kearney Township

Section 01: S/2, S 440' of the NW/4, and that part of the SW/4 NW/4 lying West of the

abandoned E.J. & S. Rallroad Right of Way

Section 11: N/2, SE/4, E/2 SW/4

Section 12: Entire Section

Section 13: Entire Section

WHEREAS, Atlas desires to amend and reform the Unit Area for the Chestonia 18 Unit by adding thereto the following described lands:

x.26000

Township 30 North - Range 7 West, Kearney Township

Section 1: NW/4 except the S 440', and except that part of the SW/4 NW/4 lying West of the abandoned E.J. & S. Railroad Right of Way

WHEREAS, Atlas desires to further amend and reform the Unitized Area for the Chestonia 18 Unit by deleting therefrom the following described lands.

Township 30 North - Range 6 West, Chestonia Township

Section 5: NE/4 SW/4

WHEREAS, said Agreement provides that Atlas may amend the Unit Area at any time, and may from time to time, prepare by separate instrument, a supplement to the Agreement identifying specifically the Unitized Leases, or portions thereof, subject to the Agreement.

NOW THEREFORE, pursuant to the terms of the Agreement and the terms of the Oil and Gas Leases described in Exhibit "A" hereto, the term "Unit Area" as used in the Agreement is hereby amended and reformed to read as follows:

Township 30 North - Range 6 West, Chestonia Township

Section 05: W/2 SW/4

Section 06: S/2

Section 07: Entire Section Section 08: W 3/4 Section 16: SW/4 SW/4 Section 17: Entire Section

Section 18: Entire Section

Township 30 North - Range 7 West, Kearney Township

Section 01: NW/4, S/2

Section 11: N/2, SE/4, E/2 SW/4

Section 12: Entire Section

Section 13: Entire Section

NOW THEREFORE, the Oil and Gas Leases described in Exhibit "A" hereto cover lands within the Unit Area as amended and reformed herein, or portions thereof, and are hereby added to the Agreement and made subject to its terms, insofar and only insofar as such Oil and Gas Leases lie within the Unit Area.

EXCEPT as modified herein, all terms and conditions of the Agreement shall remain the same.

Instrument Liber Pose 200800007647 OR 784 285

IN WITNESS WHEREOF, this Amendment of Unitization Agreement is dated and executed this 4 day of August 2008, and shall be effective August 1, 2008, however, the effective date for the commencement of royalty payments shall be two months after the first day of the month following the State of Michigan's ratification of this amendment, or the first day of the month production is established from the lands added herein, whichever occurs first.

WITNESSES:

amas I Strobnik

By: Richard L. Redmond.

ATLAS GAS & OIL COMPANY, LLC

Its: President & CEO

Paul R. Conlen

CORPORATE ACKNOWLEDGEMENT

STATE OF MICHIGAN

) SS

COUNTY OF GRAND TRAVERSE

The foregoing instrument was acknowledged before this 19th day of August 2008 by Richard L. Redmond, Jr., the President and CEO of Atlas Gas & Oil Company, LLC, a Michigan limited liability company, on behalf of the company.

My Commission Expires:
____April 11, 2014

Michelle Schaub, Notary Public Grand Traverse County, Michigan Acting in Grand Traverse County, MI

Prepared by:

Atlas Gas & Oil Company, LLC Douglas C. Crawford, RPL 1501 Cass Street, Suite B, Traverse City, Michigan 49684

Return to.

Allas Gas & Oil Company, LLC

Altri: Carol Hector

1501 Cass Street, Suite B Traverse City, Michigan 49684

Chestonia 18 Fourth Amend.doc

3 of 3

EXHIBIT "A"

Altacked to end mado a part of that ceruith Fourth Amondment of Unitation Agreement dated August 120, 2008, effection August 17, 2008, covering the Chastoria 18 Unit

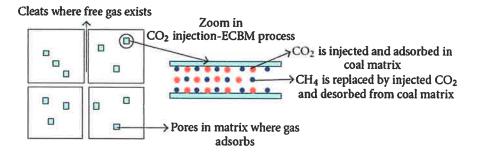
_				-	
	Y, LLC 07/14/06	Uninecorded	NO.	**************************************	ART OF THE MINM
P. MODO FIGURE OF BANK AND TRUST ROMALDL WILLARS	17/10/20	359 1372	NOS.	W T	CONDITY 359 1372 30N NV I THAT PART OF THE NAMELYING WEST OF ABANDONES RISK ROW

NSOFAR AND ONLY MSOFAR AS THE ABOVE LANDS AND LEASES LIE WITHIN THE UNIT AREA.

286 Pase

Exhibit C - CO2 Absorption and Methane Desorption

Journal of Petroleum Engineering



(Qin He, Shahab D. Mohaghegh, and Vida Gholami)

<u>Exhibit D</u> - Proposed Injection Wells & Facility Process Diagram

CO2 Injection Process Diagram (Not to Scale)

B1-13

D1-13

EGR Process Gathering Line Gas is gathered from Chestonia 18 and other Antirm field wells CO2 Injection Line Antrim gas is sent to the Chestonia CO2 Plant Antrim Well CO2 is separated and captured at the Chestonia CO2 Plant CO2 Injection Well CO2 is re-injected into select Antrim wells C3-1 D1-5 D1-1 A1-11HD A3-11HD A1-7 A3-7 A1-8 B3-12 C2-11 C3-11 D3-12 D1-12 D1-7 18 CPF A3-18

C3-13

D3-13

81-18

D1-18

A4-17

B4-17

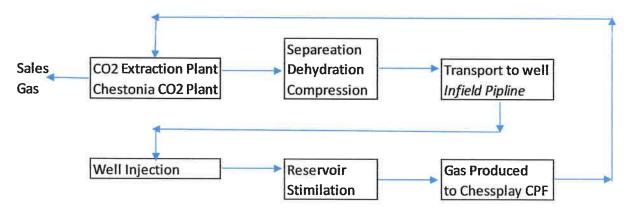
D1-16

CO2 Plant

D4-18

C2-17

Chestonia 18 Pool CO2 EGR Project Process Diagram



Chestonia 18 Unit

THE A1-110 B C3-6 03.1 871 Dt 5 Ō ALTHO A1-11 HD A1-8 A3-14 HD2 B3-12 B4-12 A' C3 II C2-11 C3-11 00.0 D3 12 047 43-16 A3-16 B1-13 134 17 C3-13 C4-17 CO2 EGR Candidate [8]

Exhibit E - Cross Section Diagram

Figure 1. Base map of the Chestonia 18 Project, showing the project boundary outline (black), candidate wells for CO2 injection (red), the Chestonia CO2 processing plant (blue), and locations of two geologic cross-sections (green, A-A' and B-B', see figures 3 and 4).

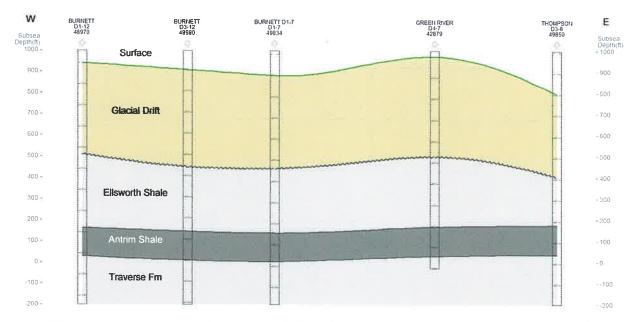


Figure 2. East-west cross-section of the Antrim Shale and overlaying strata at the Chestonia 18 Project.

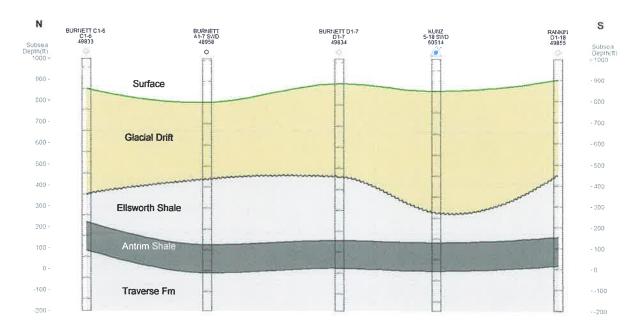
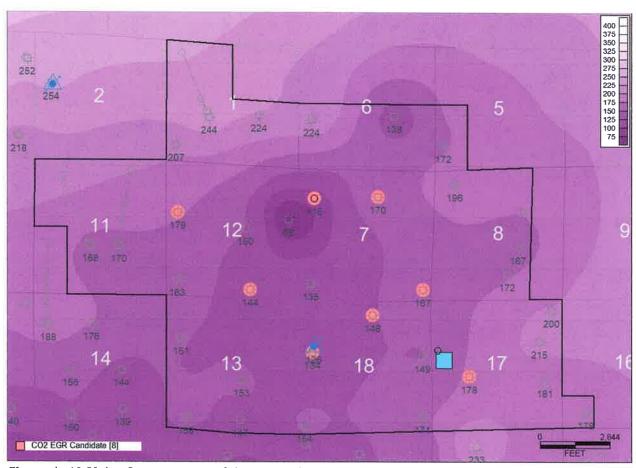


Figure 3. North-south cross-section of the Antrim Shale and overlaying strata at the Chestonia 18 Project.

Exhibit F - Structural Diagram



Chestonia 18 Unit - Structure map of the top of the Antrim Shale (C.I. = 25 ft). Structure data determined from well logs and driller's reports are posted at well symbols. Also shown are candidate wells for CO2 EGR injection (red), and the Chestonia 18 CO2 processing facility (blue).

Exhibit G – Primary Production

Produced thru July 2019 -8,372.96 MMcf ● Well Count ▶ CO2 (%) 100 10 0.00 Mbb1 0.00 Mbb1 0.00 Mbb1 Xell: 36 PRODUCERS Lucation: SIN-8M-28 County, State: ANTRIM, XI 027 Sem: EUR: 951 Hist 30 26 22 8 4 10 90 Case Name: CHESS PLAY (Chastonia 18) Open: ALVESSIDE ENERGY MICHIGAN LLC Reservoir: ANTRIM 02 94 98 5 Cum: 8,372,96 XMcf 3,143.63 XMcf 11,544.16 XMcf Hist Gas Gas Ren: Gas EUR: 90 0001 001 01 Water (bbl/day) O

Exhibit H – Reservoir Properties

Chestonia 18 Unit

Initial Reservoir Pressure

- Antrim Shale pressure gradient range is .35 -.38 psi/ft, average .365
- Average depth mid- perf 737
- Calculated pressure = 269 psi

Initial Gas Formation Volume Factor

Gas Gravity

- Specific gravity 0.62
- CO2 content 6.46 %

Porosity Range

• 3 – 10% (A. Agrawal, 2010)

Average Porosity

• 9% (A. Agrawal, 2010)

Gas Content

- Approximately 60 70% of Antrim gas is absorbed to the rock matrix (A. Agrawal, 2010).
- Gas content for the Antrim ranges between 40 SCF/ton to 100 SCF/ton (Phasis Consulting, 2008)
- 80 acre unit = 26,840,051 tons of rock or 1,073.602 to 2,684.005 MMcf
- The Chess Play Unit is 3,860 acres or 1,295,032,461 tons of rock = 51,801 129,503 MMcf in place

Exhibit I - Estimated In-Place Volumes & Recoveries

Chestonia 18 Unit

Estimated In-Place Volumes & Recoveries

Original Gas in Place (OGIP) Estimate:

• 51,801 - 129,503 MMcf in place

Recoveries from Primary Production:

Produced thru July 2019 - 8

8,372.96 MMcf

• Estimated Remaining Primary - 3,143.63 MMcf

Total -

11,544.16 MMcf

Estimates Ultimate Recover (EGR) from CO2 EGR:

- Assuming 60% of original gas in place is absorbed to the rock 31,080 77,701 MMcf
- Assuming an additional 10% recovery of absorted gas could be achieved by CO2 injection/absorption
- Potential additional gas recovered 3,108 MMcf to 7,770 MMcf

Total Potential EUR of Gas (Primary + CO2 EGR):

14,652 MMcf to 19,314 MMcf

Exhibit J — Estimated Economics of EGR Project

Chestonia 18 Unit

Estimated Economics of EGR Project

Undiscounted Economics	MM\$
Gross Revenue = 3,108,000 (lower end EGR) X \$2.25/mcf	\$ 6.993
Estimated CAPEX =	\$ 0.600
EGR Operating LOE = \$12,000/year * 20 years	\$ 0.240
Total	\$ 6.153

Exhibit K – Leasehold Report

All leases are leased to Riverside Energy Michigan or one of its processor companies.

	_	-		CHESTONIA 18 LEASEN	IOLD REPORT							
			···				LEASE	UNIT				
LEASE NO.	LIBER	PAGE	LESSOR	Street Address	Address	City, State, Zip		RATIFIED	TWP	RNG	SEC	LESSEE
MI009014501	397	1213	BURNETT, DARWON A. ET AL	P.O. Box 988		Bellaire, MI 49615-0988	08/01/93	YES	30N	6W	6	CAP LAND COMPANY
									30N	6W	-	
										7W	-	
									30N		12	
									30N	6W	18	
	_	_							30N	6W	17	
MI009014800	397	231	KAFI, ALI & PARVIN L	Pole Star, LLC (new owner)	P.O. Box 172	5 + MI 40637	00/01/02	WEG	2001	_	_	
	337	401	TO THE CAT PARTY IN C.	ole Star, LLC (New Bwiler)	F,O, BOX 172	Eastport, MI 49627	09/01/93	YES	-	7W 7W	-	CAP LAND COMPANY
									3014	/ 00	12	
MI009018100	402	1407	KUNZ, RAYMOND E. & NINA	319 N Rembrandt Ave		Royal Oak, MI 48067-2011	10/13/93	YES	30N	6W	18	NORTHERN LAKES PETROLEUM
MI009019101	403	399	AGRIBANK #13427	P.O. Box 64949		St. Paul, MN 55164-0949	11/11/93	YES	30N	7W	11	NORTHERN LAKES PETROLEUM
MI009021000	400	226	MOORE, JESSE P. & RUTH E.	Timothy L & Joan E Moore (New owner)	1466 Doerr Road	Mancelona, MI 49659-9310	09/09/93	YES	30N	7W	11	NORTHERN LAKES PETROLEUM
M1009023400	404	1415	PORTER MINERAL RIGHT TRUST	Old Kent Bank & Trust Company, Trustee	One Vandenberg Square	Grand Rapids, MI 49503	12/18/93	YES	30N	6W	17	CAP LAND COMPANY
										6W		
	-						101110-0-5111	_	30N	6W	8	
MI009030601	400	234	KOTZ, ROLLAND, ETAL	1891 Montgomery Road		Bellaire, MI 49615-9784	09/08/93	YES	30N	7W	11	NORTHERN LAKES PETROLEUM
MI009031201	408	1174	AUSTIN, WILLIAM T. & DORIS M.	7405 Austin Road		Bellaire, MI 49615-9470	02/25/94	YES	30N	6W	18	NORTHERN LAKES PETROLEUM
M1009062601	417	1265	SCAGGS, JAMES & DOROTHY	Laraine Anderson (new owner)	1891 Montgomery Road	Bellaire, MI 49615-9784	08/10/94	YES	30N	7W	11	NORTHERN LAKES PETROLEUM
MI009103900	359	1372	PORTER MINERAL RIGHT TRUST	Old Kent Bank & Trust Company, Trustee	One Vandenberg Square	Grand Rapids, MI 49503	03/01/91	YES	30N 30N	7W 7W		RONALD L WILLMES
MI009268400	767	1727	STATE OF MICHIGAN N-42213	P.O. Box 30448		Lansing, MI 48909-7948	03/20/07	YES	30N	7W	11	DTE GAS & OIL COMPANY
MI009268500	767	1738	STATE OF MICHIGAN N-42214	P.O. Box 30448		Lansing, MI 48909-7948	03/20/07	YES	30N	7W	11	DTE GAS & OIL COMPANY
MI009284600	784	232	STATE OF MICHIGAN N-44439	P.O. Box 30448		Lansing, MI 48909-7948	07/14/08	YES	30N	7W	1	ALTAS GAS & OIL COMPANY LLC

The tax assessed owners, as per the Antrim County Treasurer's Office, within the proposed Unit Area.

Name #1	Name #2	Address	City/State/Zip	Tax ID#	Town/Range	Section	Brief Legal
Darwon A. Burnett & Yvonne J	. Walter E. Burnett	P.O. Box 572	Mancelona, MI 49659	05-03-005-006-00		5	SW/4SW/4
Darwon A. Burnett & Yvonne J	Walter E. Burnett	P.O. Box 572	Mancelona, MI 49659	05-03-006-007-00		6	SE/4
Walter E. Burnett & Joann L. Bu Burnett-Grantham-Holcomb		9484 W. Hill Road	Swartz Creek, MI 48473	05-03-006-007-10		6	SW/4
Darwon A. Burnett & Yvonne J	. Walter E. Burnett	P.O. Box 572	Mancelona, MI 49659	05-03-007-001-00		7	Pt E/2
Walter E. Burnett & Joann L. Br	Burnett-Grantham-Holcomb	9484 W. Hill Road	Swartz Creek, MI 48473	05-03-007-001-10		7	W/2
Yvonne J. Burnett		P.O. Box 572	Mancelona, MI 49659	05-03-007-001-20		7	N/2 N/2 NE/4 NE/4
State of Michigan		P.O. Box 30448	Lansing, MI 48909	05-03-008-002-00		8	Pt NE/4 NW/4 & Pt NW/4 NE/4
Michigan Dept. of Treasury	Finance & Acct Div - PILT	P.O. Box 30722	Lansing, MI 48909	05-03-008-003-00		8	Pt NE/4 NW/4 & Pt NW/4 NE/4
Anthony J. Deschutter	Renee H. Deschutter	20018 Meier Road	St. Clair Shores, MI 48081	05-03-008-004-00	T30N, R6W	8	Pt NE/4 NW/4 & Pt NW/4 NE/4
Anthony J. Deschutter	Renee H. Deschutter	20018 Meler Road	St. Clair Shores, MI 48081	05-03-008-005-00		8	E/2 SE/4 NW/4 & SW/4 NE/4
James W. Lucka	Diane M. Lucka	4931 W. Lucka Drive	Weidman, MI 48893	05-03-008-006-00		8	W/2 SE/4 NW/4 E of Hwy
Darwon A. Burnett & Yvonne J	Walter E. Burnett	P.O. Box 572	Mancelona, MI 49659	05-03-008-007-00		8	Pt W/2 W of Hwy M-66
Rodney Kippe	Kelli Kippe	1282 S. M-66 Hwy	Mancelona, MI 49659	05-03-008-007-10		8	Pt NW/4
John J. Cuca		5555 Bonar Drive	Charlevoix, MI 49720	05-03-008-008-00		8	NW/4 SE/4
Stephen & Eric & Melissa Hall	Gerald & Beverley Hallberg	1867 S. M-66 Hwy.	Mancelona, MI 49659	05-03-008-009-00	-	8	Pt SE/4 SW/4 E of Hwy
Bert L Geren		P.O. Box 837	East Jordan, MI 49727	05-03-008-009-10	-	8	S/2 SW/4 SE/4
Daniel Mick		309 Maple Street	Bellaire, MI 49615	05-03-008-009-21		8	Pt N/2 SW/4 SE/4
Bert L. Geren		P.O. Box 837	East Jordan, MI 49727	05-03-008-009-30		8	Pt N/2 SW/4 SE/4
Margaret A. Landy		6650 Birch Lake Road	Kewadin, MI 49648	05-03-008-010-00		8	Pt SE/4 SW/4
Anthony J. Deschutter	Renee H. Deschutter	20018 Meier Road	St. Clair Shores, MI 48081	05-03-008-010-00		8	NE/4 SW/4
Anthony J. Deschutter	Renee H. Deschutter	20018 Meier Road	St. Clair Shores, MI 48081	05-03-008-011-00		8	NE/4 SW/4
Darwon A. Burnett & Yvonne J.		P.O. Box 572	Mancelona, MI 49659	05-03-008-011-00		17	Pt NW/4
Patric Gates Construction LLC		242 N. Mayer Road	Smiths Creek, MI 48074	05-03-017-001-10		17	Pt NW/4
Darwon A. Burnett		P.O. Box 572	Mancelona, MI 49659	05-03-017-001-20	CONTRACTOR OF SERVICE AND ADDRESS.	17	Pt NW/4
January Rental Co. Inc.		954 Park Drive #5	Traverse City, MI 49685-2027	05-03-017-001-30		17	Pt NW/4
Riverside Energy Michigan LLC		10691 E. Carter Road, Suite 201	Traverse City, MI 49684	05-03-017-001-35	T30N, R6W	17	Pt NW/4
Edward C. Davidson		2033 S. M-66 Hwy	Mancelona, MI 49659	05-03-017-002-00	The second second	17	Pt NW/4 NE/4
Samantha Kelly		886 N. Meadow Drive	Gaylord, MI 49735	05-03-017-002-00	T30N, R6W	17	Pt NW/4
Janice Estes		21124 Maybury Park	Novi, MI 48167	05-03-017-004-00	T30N, R6W	17	
Larry Estes	Janice Estes	21124 Maybury Park Drive	Novi, MI 48167	05-03-017-004-00	T30N, R6W	17	Pt NE/4 & Pt NW/4 NE/4 E of Hw
Darwon A. Burnett & Yvonne J.		P.O. Box 572	Mancelona, MI 49659	05-03-017-004-10	T30N, R6W	18	Pt NW/4 E of Hwy & Pt N1/2 E/2
Walter E. Burnett & Joann L. Bu		9484 W. Hill Road	Swartz Creek, MI 48473	05-03-018-002-00		18	N/2 NE/4
Raymond E. Kunz	Nina Kunz	319 Rembrandt	Royal Oak, MI 48067		the same of the sa		NE/4 NW/4
Pole Star LLC	The state of the s	P.O. Box 712	Eastport, MI 49627	05-03-018-003-00 05-10-001-001-00	-	18	S/2 N/2 & NW/4 NW/4
Michigan Dept. of Treasury	Finance & Acct Div - PILT	P.O. Box 30722	Lansing, MI 48909	05-10-001-001-00		1	S/2 & Pt S/2 S/2 N/2
DNRE	Timulice & Acct Div - 1121	P.O. Box 30028	Lansing, WI 48909-8235		T30N, R7W		W/2 NW/4 N&W of RR ROW
DNRE		P.O. Box 30028	4	05-10-001-003-00	T30N, R7W	1	Pt NE/4 NW/4
Walter E. Burnett & Joann L. Bi	Burnett Grantham Helsemb	P.O. Box 988	Lansing, MI 48909-8235	05-10-001-004-00	T30N, R7W	1	Pt N3/4 N/2 & Pt S/2 S/2 N/2
DNRE	burnett-Grantnam-Aoicomb	P.O. Box 30028	Bellaire, MI 49615	05-10-011-001-00	T30N, R7W	11	E/2 SE/4
Scott D. Duncan	S. Lynne Duncan	11663 E. 900 N.	Lansing, MI 48909-8235	05-10-011-001-10		11	N/2 NW/4 E of RR & NE/4
State of Michigan	3. Lyline Dulicali	P.O. Box 30448	Kendallville, IN 46755	05-10-011-002-00		11	N/2 NW/4 W of RR ROW
State of Michigan			Lansing, MI 48909-7948	05-10-011-003-00		11	Pt S/2 NW/4
Rolland E. Kotz		P.O. Box 30448	Lansing, MI 48909-7948	05-10-011-004-00	The second second second	11	Pt S/2 NW/4
Rolland E. Kotz		1891 Montgomery Road	Bellaire, MI 49615	05-10-011-007-00		11	Pt E/2 SW/4
Steven Bacon Jr.		1891 Montgomery Road	Bellaire, MI 49615	05-10-011-007-10	- Carrier Branch	11	Pt SE/4 SW/4
Timothy L. Moore	Inan E Manan	7620 Thomas	Central Lake, MI 49622	05-10-011-007-20		11	Pt SE/4 SW/4
State of Michigan	Joan E. Moore	1602 Bush Road	Bellaire, MI 49615	05-10-011-008-01		11	W/2 SE/4
	Burnett Country Hall	P.O. Box 30448	Lansing, MI 48909-7948	05-10-011-009-00		11	Former RR across NW/4 NW/4
Walter E. Burnett & Joann L. Bu	Burnett-Grantham-Holcomb	P.O. Box 988	Bellaire, MI 49615	05-10-012-001-00	T30N, R7W	12	Pt S/2
Pole Star LLC		P.O. Box 712	Eastport, MI 49627	05-10-012-001-10	T30N, R7W	12	N/2
Walter E. Burnett & Joann L. Br	Burnett-Grantham-Holcomb	9484 W. Hill Road	Swartz Creek, MI 48473	05-10-012-001-20	T30N, R7W	12	Pt SW/4 SW/4

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APPENDIX

Single Well (average representative)

Bulk Rock Mass	(arrange representation)	
Area	80	acres
	43,560	ft2/acre
Net Pay	105	- ft
Bulk volume	365,904,000	ft3
	10,361,230,387,200	cm3
Bulk mass	2.33	5 g/cm3 shale s.g.
	24,348,891,409,920	g
	26,840,051	tons
40 SCF/ton per 80 acres	1,073,602,028.69	Scf/80 acres
100 SCF/ton per 80 acres	2,684,005,072	Scf/80 acres