



BREITBURN

November 19, 2015

Michigan Public Service Commission
P. O. Box 30221
Lansing, MI 48909

Case Number U-16230

Dear Sirs:

BreitBurn Operating LP requests permission to operate all of the wells flowing into the Colonel Saunders North CPF under vacuum conditions. This includes all the wells in the Colonel Saunders North project, the Lake 19 project and the Colonel Saunders project. Notification of the intent to file this application was mailed to offset operators on 10/2/2015 and again on 11/12/2015 following the change in requirements.

Attached are average monthly fuel usage numbers for the past two years. All flow lines, well casings and tubing have been reviewed for suitability. In addition, identical equipment has been utilized in Indiana and Kentucky by BreitBurn Operating LP under vacuum conditions for several years with no issues. Also attached are test records demonstrating mechanical integrity for all flow lines, valves, fittings and connections.

Finally, a map is attached which shows flow line sizes, central production facility location, well head booster compressor locations, with pipe type and wall thickness noted on attached legend. All gas lines are SDR-17 poly pipe and all water lines are SDR-11 poly pipe.

Each CPF location sells gas through a custody transfer meter owned and operated by the purchaser (Consumers, DCP, Michcon). Each of these custody transfer metering points monitors pressure, temperature, and differential pressure across an orifice plate to calculate flow rate. In conjunction with the custody transfer meters, Breitburn owns redundant check meters that are configured similarly and are monitored through a corporate SCADA system. Real-time O₂ monitoring is accomplished at each of the distribution points by an AMI 2010/B O₂ analyzer that initiates alarms to our SCADA system, based on O₂ levels, and are already configured to immediately shutdown compression if high O₂ levels are determined.

Sincerely,

Donald R. Day
Senior Staff Production Engineer
BreitBurn Management, LP
Gaylord, MI 49735
(989) 731-9350

Fuel Use

Antrim Central Production Facilities

Location	Unit #	Engine Manufacturer	Engine Model	Engine SN	HP	Average Monthly Fuel Use, MCF/Mo.		
						2014	2013	
CPF Bagley 11	773	Caterpillar	398 NA	4C45	500	864.17	951.67	
CPF Bagley 23	875	Caterpillar	398 TA	66B1052	700	2,440.83	2,330.83	
CPF Bagley 700	778	Caterpillar	399 TA	49C-1525	830	1,320.00	1,680.83	Compressor switched out late in 2014
CPF Bagley 700	982	Caterpillar	3512 TALE	7NJ00857	810	841.67	-	Compressor new to project in late 2014
CPF Bagley East	858	Caterpillar	3516 TALE	4EK01625	1,085	4,295.83	4,306.67	
CPF Bart Star	789	Caterpillar	399 TA	49C01210	830	4,207.50	2,845.00	
CPF Bart Star	799	Caterpillar	399 TA	49C-141	830	4,207.50	2,845.00	
CPF Beaver Lake	1053	Caterpillar	3516 TALE	4EK02230	1,085	3,658.33	3,176.67	
CPF Blue Herron	1078	Caterpillar	3516 TALE	4EK01268	1,265	4,196.67	3,761.67	
CPF Brady Bunch	1101	Caterpillar	3516 TALE	4EK01217	1,265	3,278.33	2,997.50	
CPF Bushman	1206	Caterpillar	3516 TALE	4EK01206	1,265	3,110.00	3,245.83	
CPF Carbon Black	1055	Caterpillar	3516 TALE	4EK02946	1,265	4,373.33	5,009.17	
CPF Cattle Antrim	834	Caterpillar	399 TA	49C00762	830	2,311.67	2,942.50	
CPF Charlton 6	862	Caterpillar	3516 TALE	4EK00682	1,085	3,837.50	4,100.83	
CPF Charlton 8	1234	Caterpillar	3516 TALE	4EK01265	1,265	6,665.00	6,829.17	
CPF Charlton West	786	Caterpillar	399 TA	Q54619	830	2,859.17	2,965.00	
CPF Charlton East	803	Caterpillar	399 TA	49C3680	830	3,731.67	3,765.00	
CPF Chester East	915	Caterpillar	3516 TALE	4EK3RC00074	1,085	2,880.00	3,231.67	
CPF Colonel Saunders North	813	Caterpillar	398 TA	73B248	700	1,510.00	1,545.83	
CPF Corwith-Dover	775	Caterpillar	399 TA	91800881	830	3,094.17	3,044.17	
CPF Dover 35	891	Caterpillar	3512 TALE	7NJ00091	810	2,787.50	2,615.83	
CPF Dubie Brothers	1085	Caterpillar	3516 TALE	4EK01155	1,265	3,241.67	3,286.67	
CPF Echo Lake	760	Caterpillar	399 TA	35B3752	830	1,873.33	1,838.33	
CPF Elk Ridge	1193	Caterpillar	3516 TALE	4EK01724	1,265	3,400.00	3,585.83	
CPF Elmer Fudd 1	1052	Caterpillar	3516 TA	4EK00940	1,265	3,618.33	3,951.67	
CPF Elmer Fudd 1	1056	Caterpillar	3516 TA	3RC01089	1,265	3,512.50	3,715.83	
CPF Elmer Fudd East	1106	Caterpillar	3516 TA	4EK01630	1,265	4,313.33	4,645.83	
CPF Elmer Fudd East	1107	Caterpillar	3516 TALE	4EK00340	1,265	4,671.67	5,125.00	
CPF Elmer Fudd East	1185	Caterpillar	3516 EIS	4EK01657	1,265	4,498.33	4,945.00	
CPF Potts Lake Booster	704	Caterpillar	3408 LE	BAZ0127	425	2,463.33	2,463.33	
CPF Elmira Thrive East	794	Caterpillar	3512 TALE	4KC003551	810	2,147.50	2,107.50	
CPF Fletch	855	Caterpillar	3516 TALE	3RC00921	1,085	3,701.67	3,609.17	
CPF Fontinalis 25	1105	Caterpillar	3516 TALE	4EK01266	1,265	4,024.17	4,597.50	
CPF Fontinalis 25	1233	Caterpillar	3516 TALE	4EK001662	1,265	4,146.67	4,797.50	
Dover Ridge Pipeline Booster	702	Caterpillar	3408 LE	BAZ02221	425	2,463.33	2,463.33	
CPF Green River West	888	Caterpillar	3516 TALE	4EK000169	1,085	5,535.00	5,374.17	
CPF Happy Hillman	815	Caterpillar	3516 TALE SI	3RC00705	1,085	4,988.33	4,098.33	
CPF hayes 10	1623	Caterpillar	3512 TALE EIS	7N000054	810	2,796.67	3,033.33	
CPF Head Start	996	Caterpillar	3516 TALE	4EK01067	1,265	3,844.17	3,959.17	
CPF Hunt N Hayes	1003	Caterpillar	3516 TALE	4EK01265	1,085	5,488.33	5,029.17	

CPF Knight Vienna 4	850	Caterpillar	3516 TALE	3RC00921	1,085	3,306.67	3,147.50	
CPF Life of Briley	1050	Caterpillar	3516 TALE	4EK00998	1,265	5,463.33	5,695.83	
CPF Livingston 17	883	Caterpillar	3516 TALE	4EK00209	1,085	2,526.67	2,645.00	
CPF Livingston 21	1202	Caterpillar	3516 TALE	4EK00749	1,265	4,074.17	4,410.00	
CPF Livingston 31	859	Caterpillar	3516 TALE	4EK04923	1,085	3,549.17	3,197.50	
CPF Livingston 31	863	Caterpillar	3516 TALE	4EK00232	1,085	3,434.17	3,092.50	
CPF Livingston 36	2007	Caterpillar	3512 TALE	7NJ00265	810	-	-	CPF shut down in 2011
CPF lucky 16	770	Caterpillar	398 TA	73B1233	700	-	1,497.50	CPF shut down in 2013
CPF Mancelona ADV	857	Caterpillar	398 TA	66B07112	700	2,581.67	2,503.33	
CPF Mancelona West	1523	TECO Westinghouse	Electric motor	YGMMJH08008	800	-	-	Electric motor
CPF Mancelona West	5626	GM	Chevy 350	703173	75	425.83	425.83	
CPF Mancelona West	8032	GM	Chevy 350		75	425.83	425.83	
CPF Minke Coat	1009	Caterpillar	3516 TALE	4EK00403	1,265	2,880.00	2,714.17	
CPF Mossback	785	Caterpillar	399 TA	Q54619	830	2,797.50	2,745.00	
CPF NADV 1-2-3	759	Caterpillar	399 TA	35B490	830	4,622.50	4,823.33	
CPF NADV 1-2-3	8023	GM	Chevy 350	3-0005186	75	425.83	425.83	
CPF NADV 7	777	Caterpillar	399 TA	35B01292	830	-	1,474.17	CPF shut down in 2013
CPF New Caledonia	774	Caterpillar	399 TA	49C01053	830	3,935.00	3,921.67	
CPF Peggy Flemming	791	Caterpillar	399 TA	49C746	830	2,140.83	2,059.17	
CPF Pleasant Valley	788	Caterpillar	399 TA	Q57440	830	-	1,174.17	CPF Shut down in 2013
CPF Shell Mid-Charlton, Phase II	817	Caterpillar	3512 TALE	4KC00504	810	2,910.00	3,191.67	
CPF Saturday Night Live	1010	Caterpillar	3516 TALE	4EK00818	1,085	4,055.83	4,425.83	
CPF Saturday Night Live	861	Caterpillar	3516 TALE	4EK00399	1,085	4,291.67	3,931.67	
CPF South Caple	3958	Caterpillar	3516 TALE	3RC00996	1,085	4,490.83	4,950.83	
CPF South Rust	865	Caterpillar	3516 TALE	4EK00286	1,085	4,779.17	5,361.67	
CPF Wildcard	890	Caterpillar	3512 TALE	7NJ01117	810	3,181.67	3,251.67	
CPF Wildcard	2003	Caterpillar	3304 NA	37Y01436	85	486.67	486.67	



GATHERING SYSTEM PRESSURE TEST

Facility #: 1886

BBE-PRO-198

DEQ Permitted Name:

N. Charlton DL-29
(Colonel Saunders)

Office Use Only

Project: Colonel Saunders

Date: 6-18-15

County: Otsego

Township: Charlton

Normal Operating Pressure (NOP): 2 PSI

Recommended Test Pressure: 15 PSI

(@ minimum 1.5 x Normal Operating Pressure or Poly Pressure)

Line Type:

Poly

Steel

Fiberglass

Line Use:

Water

Gas

Lift

Multi-Phase

Oil

Description of Section Being Tested:

entire Gas gathering system

TYPE OF TEST

(CIRCLE ONE)

ANNUAL TEST (Steel)

POLY TEST

POLY REPLACEMENT

EVERY 3rd YEAR (Poly/Fib)

Minutes	Time	Pressure	% of Change
0	8:00 AM	15 PSI	0
5	8:05	15	0
10	8:10	15	0
15	8:15	15	0
20	8:20	15	0
25	8:25	15	0
30	8:30	15	0
35	8:35	15	0
40	8:40	15	0
45	8:45	15	0
50	8:50	15	0
55	8:55	15	0
60	9:00 AM	15 PSI	0

District Representative #1: Brent Gabriel Brent Gabriel

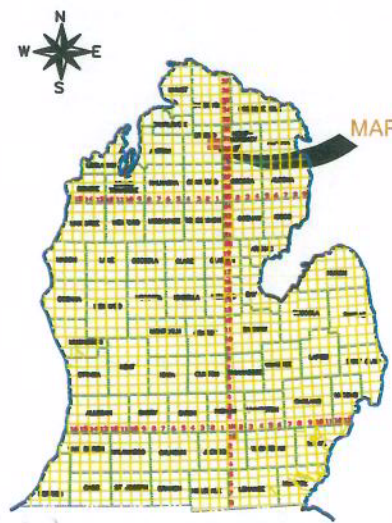
Breitburn [Signature] Joe Gruszynski

Facilities	Gas test	Line type	Next test due	Comments	DEQ permitted name
Charlton West - See Charlton 8					
Chester 7-11	9/12/2013	poly	9/12/2016	Note: 9-19-14 Chester 7-11 re-routed to the Bagley 700	
Chester East	9/26/2012	poly	9/26/2015	South gas flowlines	Chester C2-10
Chester East	9/26/2012	poly	9/26/2015	North gas flowlines	Chester C2-10
Chester East	9/26/2012	poly	9/26/2015	C2-10 gas line	Chester C2-10
Chester East	10/2/2014	poly/fiberglass	10/2/2017	Entire gas gathering line	Chester C2-10
Colonel Saunders	6/18/2015	poly	6/18/2018	Entire gas system	N. Charlton D1-29
Corwith Dover	9/3/2012	poly	9/3/2015		Dover A4-4
Dover 35	6/24/2015	poly	6/24/2018		Dover 35
Dover 7	7/12/2012	poly	7/12/2015		C. Corwith D2-17
Dover Ridge	7/12/2012	poly	7/12/2015		C. Corwith D2-17
Dubie Brothers A1-26	8/17/2012	poly	8/17/2015		SW Wilson A1-26
Dubie Brothers A4-26	8/17/2012	poly	8/17/2015		W. Wilson A4-26
Echo Lake	6/16/2015	poly	6/16/2018		South Hayes D4-6
Elk Ridge	9/27/2012	poly	9/27/2015		N. Briley A1-11
Elmer Fudd 1	7/18/2012	poly	7/18/2015		N. Elmer A4-5
Elmer Fudd East	9/27/2012	poly	9/27/2015		W. Clinton C4-7
Elmira Thrive East	7/6/2012	poly	7/6/2015		Elmira C3-9
Fletch	7/25/2013	poly	7/25/2016		N. Rust D3-26

BREITBURN ENERGY PARTNERS

MID CHARLTON AREA PROJECT MAP

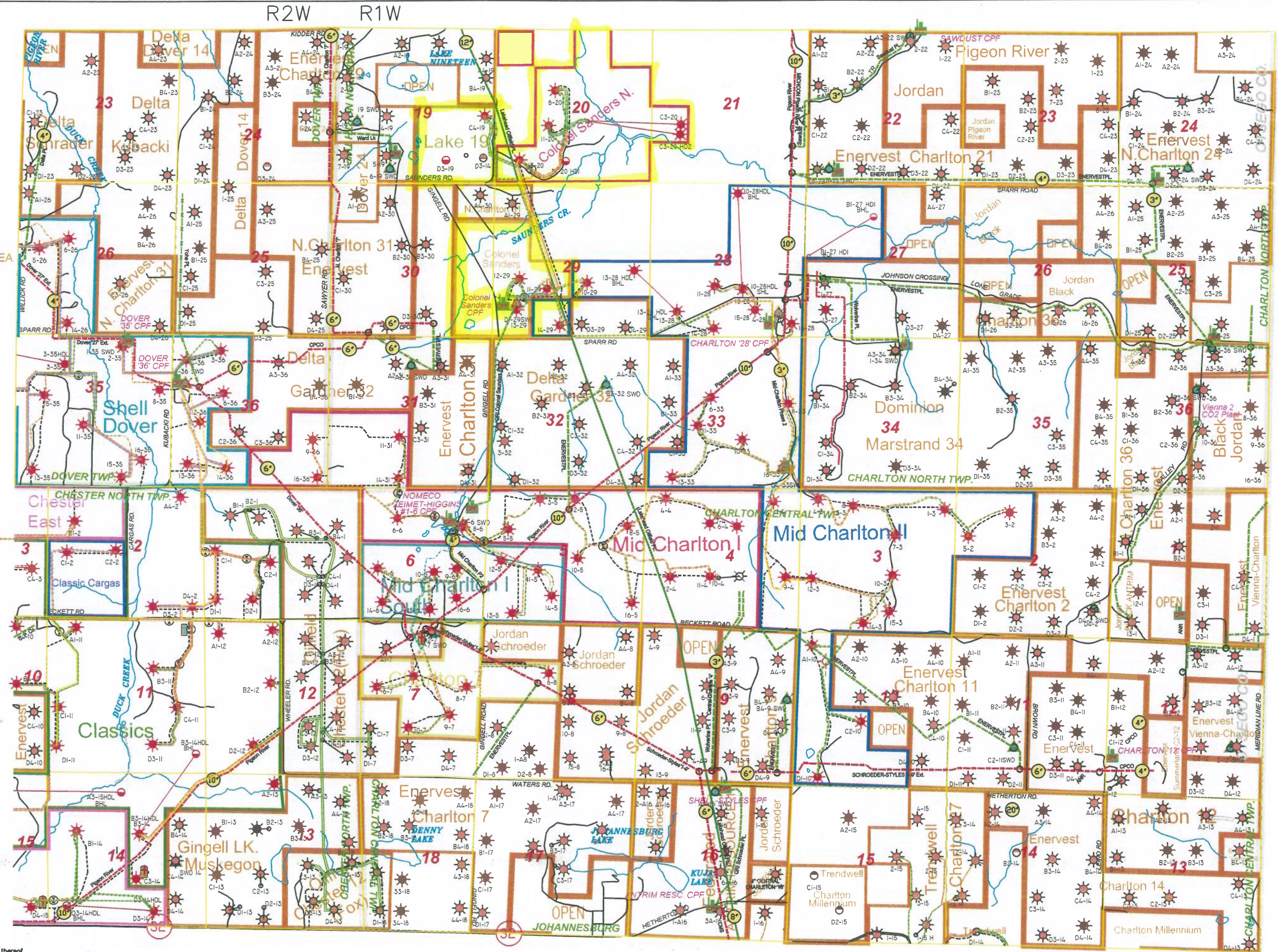
OTSEGO COUNTY ANTRIM GAS UNITS & PROJECTS



- LEGEND**
- Completed BreitBurn Antrim Gas Wells
 - Proposed or Permitted BreitBurn Antrim Gas Wells
 - Unsuccessful or Abandoned BreitBurn Antrim Gas Wells
 - Water Disposal Well
 - Gas/Water Disposal Wells
 - Niagaran Oil/Gas Wells
 - Completed Competitor Antrim Gas Wells
 - Proposed or Permitted Competitor Antrim Gas Wells
 - Central Production Facility
 - Surface Ownership Tracts/Owners/Acres
 - Competitor Projects/Units
 - Access Roads
 - Pipeline Vaive
 - CO-2 Plant
 - BreitBurn Gas Gathering System (Installed and Proposed)
 - 2" Flowlines
 - 3" Flowlines
 - 4" Flowlines
 - 6" Flowlines
 - 8" Flowlines
 - 10" Flowlines
 - 12" Flowlines
 - 14" Flowlines
 - Unknown Flowline Size
 - Sales/Pipelines Of Various Sizes
 - Lateral/Pipelines Of Various Sizes



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T 31 N
T 30 N

Poly pipe ID calculation

"3" inch

SDR-17

Diameter	Wall Thickness	Diam/thick	Inside Dia
3.5	0.206	16.990	3.06

SDR-11

Diameter	Wall Thickness	Diam/thick	Inside Dia
3.5	0.318	11.006	2.83

SDR-7

Diameter	Wall Thickness	Diam/thick	Inside Dia
3.5	0.5	7.000	2.44

"2" inch

SDR-17

Diameter	Wall Thick	Diam/thick	Inside Dia
2.375	0.14	16.964	2.08

SDR-11

Diameter	Wall Thick	Diam/thick	Inside Dia
2.375	0.216	10.995	1.92

SDR-7

Diameter	Wall Thick	Diam/thick	Inside Dia
2.375	0.339	7.006	1.66

"4" inch

SDR-17

Diameter	Wall Thickness	Diam/thick	Inside Dia
4.5	0.265	16.981	3.94

SDR-11

Diameter	Wall Thickness	Diam/thick	Inside Dia
4.5	0.409	11.002	3.63

SDR-7

Diameter	Wall Thickness	Diam/thick	Inside Dia
4.5	0.643	6.998	3.14

"6" inch

SDR-17

Diameter	Wall Thickness	Diam/thick	Inside Dia
6.625	0.39	16.987	5.80

SDR-11

Diameter	Wall Thickness	Diam/thick	Inside Dia
6.625	0.602	11.005	5.35

SDR-7

Diameter	Wall Thickness	Diam/thick	Inside Dia
6.625	0.946	7.003	4.62

"8" inch

SDR-17

Diameter	Wall Thickness	Diam/thick	Inside Dia
8.625	0.507	17.012	7.55

SDR-11

Diameter	Wall Thickness	Diam/thick	Inside Dia
8.625	0.784	11.001	6.96

SDR-7

Diameter	Wall Thickness	Diam/thick	Inside Dia
8.625	1.232	7.001	6.01

"10" inch

SDR-17

Diameter	Wall Thickness	Diam/thick	Inside Dia
10.75	0.632	17.009	9.41

SDR-11

Diameter	Wall Thickness	Diam/thick	Inside Dia
10.75	0.977	11.003	8.68

SDR-7

Diameter	Wall Thickness	Diam/thick	Inside Dia
10.75	1.536	6.999	7.49

"12" inch

SDR-17

Diameter	Wall Thickness	Diam/thick	Inside Dia
12.75	0.75	17.000	11.16

SDR-11

Diameter	Wall Thickness	Diam/thick	Inside Dia
12.75	1.159	11.001	10.29

SDR-7

Diameter	Wall Thickness	Diam/thick	Inside Dia
12.75	1.821	7.002	8.89

Operator	Central		Well name	MPSC Connect	Production	API number	MDEQ Drilling	MPSC Field
	Production Facility	Project Name		Permit Number	Reporting Unit		Permit Number	ID number
Breitburn Operating, L.P.	Colonel Saunders North	Colonel Saunders North Unit	COLONEL SANDERS NORTH C3-20 HD2	9638	20798	2113753391	53391	831
Breitburn Operating, L.P.	Colonel Saunders North	Colonel Saunders North Unit	COLONEL SANDERS NORTH TWIN C3-20 HD	10057	20799	2113754671	54671	831
Breitburn Operating, L.P.	Colonel Saunders North	Colonel Saunders North Unit	THEIS #11-20	7534	20800	2113750517	50517	831
Breitburn Operating, L.P.	Colonel Saunders North	Colonel Saunders North Unit	THEIS #13-20	7533	20801	2113750516	50516	831
Breitburn Operating, L.P.	Colonel Saunders North	Colonel Saunders North Unit	THEIS #6-20	7535	20802	2113750518	50518	831
Breitburn Operating, L.P.	Colonel Saunders North	Colonel Saunders Unit	ST CHARLTON #12-29	6535	20804	2113747242	47242	739
Breitburn Operating, L.P.	Colonel Saunders North	Colonel Saunders Unit	ST CHARLTON #13-29	6534	20803	2113747241	47241	739
Breitburn Operating, L.P.	Colonel Saunders North	Colonel Saunders Unit	ST CHARLTON 11-29	6536	20805	2113747243	47243	739
Breitburn Operating, L.P.	Colonel Saunders North	Lake 19	STATE CHARLTON (LAKE 19) C4-19	9679	20208	2113754024	54024	2273