APPLICATION TO OPERATE A FACILITY

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS RESOURCES MANAGEMENT
2045 MORSE ROAD, BUILDING F-2
COLUMBUS, OHIO 43229-6693
(614) 265-6922

RECEIVED
APR 25 2014
Division of Oil and Gas Resources Management

1. Name of Applicant: Pressure Tech Industrial Cleaning Services Incorporated Phone #: 606-834-1545
Address: 609 First Stree Worthington, KY 41183
Date: 4/16/2014 eMail Address: cgabbard@pressuretechinc.com
For an Order or a Permit to Operate: ☐ Existing Facility ☒ New Facility

2. PURPOSE OF FACILITY: (Check all that Apply) ☐ Storage ☒ Recycling ☒ Treatment ☒ Processing ☐ Disposal

3. TYPE OF MATERIAL:
☐ Brine ☐ Drill Cuttings
☒ Drilling Mud ☐ Other Waste Substance (explain) _____

4. If a Business Entity, list the statutory agent and include a certified copy of their appointment:
Name: Chad Gabbard
Address: 87 Ridge St. Russell, KY 41183

5. Engineer of Record:
Name: EN Engineering (Jason Merritt
Address: Cattlesburg, KY
Ohio Professional Engineering License Number: OH65935

6. Address of Facility:
Address: 7675 East Pike Norwich, OH 43767
County: Muskingum
Township: Norwick Township
Municipal Corporation: n/a
Latitude: 39degree58'28.72"W
Longitude: 81degree50'44.43"W

7. Write a brief description of the facility and operations: Removing solids from drilling mud. (please see attachment)

8. Include all information as set forth in the "*Guidelines for Application for Chief's Order*". Attach Additional Documents

I, the undersigned, being first duly sworn, depose and state under penalties of law, that I am authorized to make this application, that this application was prepared by me or under my supervision and direction, and that the facts stated herein are true, correct, and complete, to the best of my knowledge.

I certify that the facility will comply with or is currently in compliance with all provisions of Chapter 1509 ORC, Chapter 1501 OAC, and all terms and conditions of orders and permits issued by the Chief, Division of Oil and Gas Resources Management.

Signature of Authorized Agent _____

Name (Type or Print) Chad Gabbard (President) Title President

Sworn to and subscribed before me this the 17th day of April, 20 14.

_____ (Notary Public)

Timothy Stapleton Not. ID 503954

1/17/2018 (Date Commission Expires)

DNR 1509.22 (12/2013)

478336

ARTICLES OF INCORPORATION
OF
PRESSURE TECH INDUSTRIAL CLEANING SERVICES, INC.

I. The name of the corporation shall be Pressure Tech Industrial Cleaning Services, Inc.

II. The duration of the corporation shall be perpetual.

III. The corporation shall be organized for the purpose of pressure cleaning services and any or all other legal business allowed by law.

IV. There shall be 1,000 shares of common stock at no par value.

V The provisions of KRS 271B.6-300 do apply.

VI. The initial registered office shall be 1320 Prospect Avenue, Worthington, Kentucky 41183. The initial principle office of the corporation shall be 1320 Prospect Avenue, Worthington, Kentucky 41183, and its initial registered agent shall be Chadwick B. Gabbard.

VII. The initial Board of Directors shall consist of four (4) members, as follows, who shall serve in their capacity as officers of the Corporation for a length of time to be determined by the Board of Directors

Chadwick B Gabbard
President
Post Office Box 213
Worthington, KY 41183-0213

Richard Gabbard
Vice President
Post Office Box 213
Worthington, KY 41183-0213

Kimberly D Gabbard
Treasurer
Post Office Box 213
Worthington, KY 41183-0213

Kimberly D Gabbard
Secretary
Post Office Box 213
Worthington, KY 41183-0213

VIII The name and address of the incorporator is as follows:

Chadwick B Gabbard
1320 Prospect Avenue
Post Office Box 213
Worthington, KY 41183-0213

This the 3rd day of August, 1999.

Chadwick B. Gabbard
CHADWICK B. GABBARD

STATE OF KENTUCKY }
}SCT
COUNTY OF GREENUP }

I, a Notary Public in and for aforesaid county and state do hereby certify that the foregoing Articles of Incorporation was this day before me in my said County and State duly executed and acknowledged by Chadwick B Gabbard, to be his voluntary and free act and deed.

Rita V. Moore
NOTARY PUBLIC, State-at-Large
My Commission Expires: 4.21.2001

Pressure Tech

Industrial Cleaning Services, Inc.

***Supplemental Information for application to store, recycle, treat, process, or dispose of brine and other waste substances from production operations**

Explanation of Proposed Process

It is the intention of Pressure Tech, Inc. to receive waste, in the form of a sludge ranging from ~10-40% solids, from tanker trucks and trailers at the designated location. During offloading the waste will be pumped through a shaker screen and into a mix tank. The solids coming off the shaker will fall into a tub style tank. From the mix tank, via a mud pump, we will process the waste through a series of (2) weir tanks. As the waste flows through the weir tanks, settling of the solids will occur. As the solids settle in the first weir tank, the sludge in the bottom will be pumped, via a 2nd mud pump into a 2nd mix tank. The waste water, after having had the solids settled out during its retention time in the 2nd weir tank, flows to a pump feeding a deep well injection site.

The sludge in the 2nd mix tank is pumped into a filter press for dewatering. The dewatered solids are conveyed into the same tub style tank holding the screened material during the offloading process. During dewatering, the filtrate flows into an open top tank and is pumped into the aforementioned deep well injection site. The solids from the dewatering process and the shaker screen are disposed via a landfill.

Pressure Tech, Inc. P.O Box 84 Worthington, Ky. 41183
Phone: (606) 834-1545, Fax: (606) 834-1095
http://www.pressuretechinc.com

Design Flows and Storage Capacities

See attached

MSDS Sheets

Lime – see attached

Estimated volume of materials to be managed by the facility daily, monthly, and annually

Daily – 50,000 Gallons

Monthly – 1,400,000 Gallons

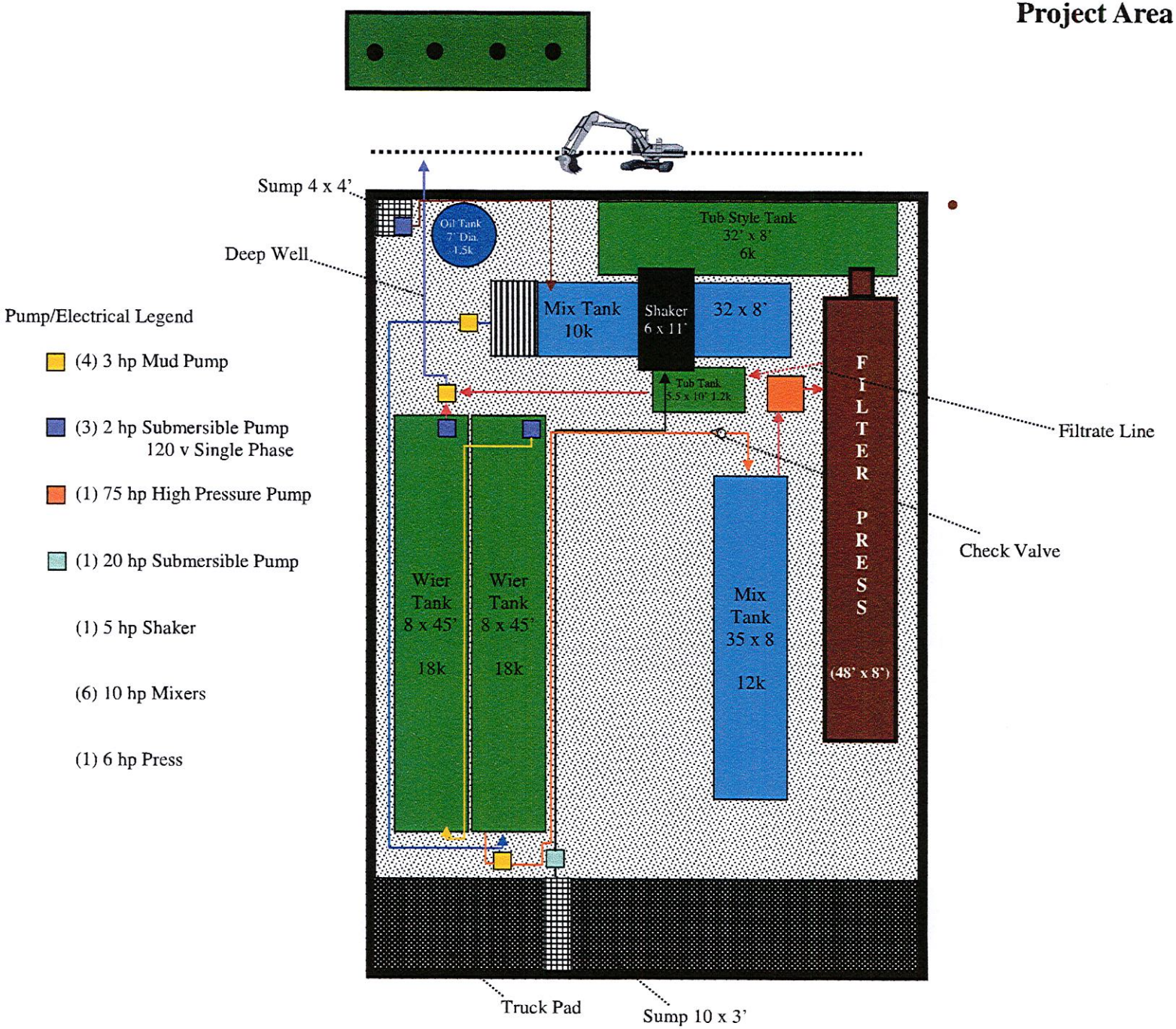
Annually – 16,800,000 Gallons

Methods of documentation

Receiving/Offloading – Each load brought to the facility will be required to supply a manifested stated the required information for such documentation.

Solids Disposal – Each load taken to the landfill will be done so with manifests as required by the landfill.

Project Area - 85 x 60'




Untitled Placemark
Untitled Placemark
PRESSURE TECH INC. DRILLING FLUID DIVISION
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GRAYMONT

MATERIAL SAFETY DATA SHEET

SECTION I - CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: **DOLOMITIC HYDRATED LIME**	**WHMIS – CLASSIFICATION: D2A: MATERIALS CAUSING OTHER TOXIC EFFECTS E: CORROSIVE MATERIAL**

MANUFACTURER'S AND SUPPLIER'S NAME:

GRAYMONT DOLIME (OH) INC	21880 West, State, Route163, Genoa, Ohio 43430.
GRAYMONT WESTERN LIME INC.	206 N. 6th Avenue, West Bend, Wisconsin, 53095

EMERGENCY TEL. No.: (613) 996 – 6666 CANUTEC (Canada) (800) 424 – 9300 CHEMTREC (US)

Chemical Name	Chemical Family	Chemical Formula
Calcium Magnesium Hydroxide Oxide and Calcium Magnesium Hydroxide	**Alkaline earth hydroxide**	**Complex mixture – mostly $CaMg(OH)_4$ and $Ca(OH)_2MgO$**
Molecular Weight	**Trade Name and Synonyms**	**Material Use**
$CaMg(OH)_4$ = 132.41 $Ca(OH)_2MgO$ = 114.40	**Hydrated dolomitic lime ($Ca(OH)_2MgO$), Double hydrated dolomitic lime ($CaMg(OH)_4$)**	**Neutralization, Flocculation, Stabilization, Polishing, Masonry Mortar, Plaster, Stucco, Fresco Paints and Lime wash.**

PRODUCT NAME	FORMULA	CAS#
BONDCRETE® Mason's Lime	$CaMg(OH)_4$	39445-23-3
Graymont Dolomitic Hydrated Agricultural Lime	$Ca(OH)_2MgO$	58398-71-3
Graymont Dolomitic Hydrated Lime	$Ca(OH)_2MgO$	58398-71-3
Graymont Dolomitic Spray Lime	$CaMg(OH)_4$	39445-23-3
GRAND PRIZE® Finish Lime	$Ca(OH)_2MgO$	58398-71-3
HI-MAG-CHEM® Hydrate	$Ca(OH)_2MgO$	58398-71-3
IVORY® Autoclaved Finish Lime	$CaMg(OH)_4$	39445-23-3
KEMIDOL® Hydrate	$Ca(OH)_2MgO$	58398-71-3
KEMIDOL® Superhydrate	$CaMg(OH)_4$	39445-23-3
LIMOID® Type "N" Hydrate	$Ca(OH)_2MgO$	58398-71-3
LIMOID® Type "S" Hydrate	$CaMg(OH)_4$	39445-23-3
MORTASEAL® Autoclaved Mason's Lime	$CaMg(OH)_4$	39445-23-3
SNOWDRIFT® Autoclaved Finish Lime	$CaMg(OH)_4$	39445-23-3
SUPER LIMOID® Agricultural Hydrated Lime	$Ca(OH)_2MgO$	58398-71-3
SUPER LIMOID® Mason's Hydrated Lime Type "S"	$CaMg(OH)_4$	39445-23-3
SUPER LIMOID® Mason's Hydrated Lime Type "SA"	$CaMg(OH)_4$	39445-23-3
WESTERN LIMATE – Industrial Grade of Dolomitic Hydrated Lime	$CaMg(OH)_4$	39445-23-3
WESTERN MIRACLE LIME – Type S Dolomitic Hydrated Masonry Lime	$CaMg(OH)_4$	39445-23-3
WESTERN Air Entrained Lime – Type SA Dolomitic Hydrated Masonry Lime	$CaMg(OH)_4$	39445-23-3
WESTERN FINISH LIME – Type S Dolomitic Hydrated Masonry Lime	$CaMg(OH)_4$	39445-23-3

SECTION II - COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients	Approximate Concentration	C.A.S. Number	Exposure limits (mg/m^3)					
			OSHA PEL	ACGIH TLV	RSST VEMP	MSHA PEL	NIOSH REL	NIOSH IDLH
(Complex Mixture)	**(% by weight)**		**(TWA) 8/40h**	**(TWA) 8/40h**	**(TWA) 8/40h**	**(TWA) 8/40h**	**(TWA) 10/40h**	
Calcium Magnesium Hydroxide	**60 to 100**	**39445-23-3**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
Calcium Magnesium Hydroxide Oxide	**60 to 100**	**58398-71-3**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
Calcium hydroxide	**30 to 60**	**1305-62-0**	**15 (tot dust)** **5 resp dust**	**5**	**5**	**5**	**N/A**	**N/A**
Magnesium Hydroxide	**0 to 40**	**1309-42-8**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
Magnesium Oxide	**0 to 40**	**1309-48-4**	**10**	**10**	**10**	**10**	**N/A**	**N/A**
Crystalline Silica, Quartz	**0 à 0.1 Or 0.1 à 1 (Note 1)**	**14808-60-7**	**$30/(\%SiO_2)+2$ (T) $10/(\%SiO_2)+2$ (R)**	**0.025 (R)**	**0.1 (R)**	**$30/(\%SiO_2)+2$ (T) $10/(\%SiO_2)+2$ (R)**	**0.05 (R)**	**50**

(**Note 1**): Concentration of crystalline silica in a series of lime products will vary from source to source. It was not detected on some samples (< 0.1% w/w). Therefore two ranges are being disclosed. **(Note 2): ACGIH TLV** Version 1973 has been adopted by the Mine Safety Health Administration (**MSHA**) as the regulatory Exposure Standard. (**Note 3**): (**T**) Total Dust; (**R**): Respirable Dust.

SECTION III - PHYSICAL AND CHEMICAL DATA

Physical State	Odor and Appearance		Odor Threshold (p.p.m.)	Specific Gravity
Gas ☐ Liquid ☐ Solid ☑	**Slight earthy odor – Fine white powder**		**Not applicable**	**2.2 - 2.6**
Vapor Pressure (mm)	Vapor Density (Air = 1)	Evaporation Rate	Boiling Point (°C)	Melting Point (°C)
Not applicable	**Not applicable**	**Not applicable**	**Decomposes at 345**	**Not applicable**
Solubility in Water (20°C)	Volatiles (% by volume)	pH (25 °C)	Bulk Density (kg/m^3)	Coefficient of water/oil distribution
0.1g/100g Solution	**Not applicable**	**Sat. solution $Ca(OH)_2$ 12.45**	**400 - 650**	**Not applicable**

SECTION IV - FIRE OR EXPLOSION HAZARD DATA

Flammability

Yes ☐ No ☑ If yes, under which conditions?

Extinguishing Media

Dolomitic Hydrated Lime does not burn. Use extinguisher appropriate for material burning.

Special Fire Fighting Procedures

Not applicable

Flash point (° C) and Method	Upper flammable limit (% by volume)	Lower flammable limit (% by volume)
Not applicable	**Not applicable**	**Not applicable**
Auto Ignition Temperature (°C)	TDG Flammability Classification	Hazardous Combustion Products
Not applicable	**Non-flammable**	**None**

Dangerous Combustion Products **None**

EXPLOSION DATA

Sensitivity to Chemical Impact	Rate of Burning	Explosive Power	Sensitivity to Static Discharge
Not applicable	**Not applicable**	**Not applicable**	**Not applicable**

SECTION V - REACTIVITY DATA

Chemical Stability Yes ☑ No ☐	If no, under which conditions?	**Absorbs carbon dioxide in the air to form calcium magnesium carbonate.**
Incompatibility to other substances Yes ☑ No ☐	If so, which ones?	**Boron tri-fluoride, chlorine tri-fluoride, ethanol, fluorine, hydrogen fluoride, phosphorus pentoxide; water and acids (violent reaction with generating heat and possible explosion in confined area).**
Reactivity Yes ☑ No ☐	If so, under which conditions?	**Reacts violently with Maleic Anhydride, strong acids. Reacts chemically with acids and many other compounds and chemical elements to form calcium and magnesium based compounds. Explosive when mixed with nitro organic compounds.**
Hazardous Decomposition Products		**Calcium Hydroxide decomposes at 540°C and Magnesium Hydroxide decomposes at 345°C to produce calcium oxide, magnesium oxide and water.**
Hazardous Polymerization Products		**Will not occur.**

SECTION VI - TOXICOLOGICAL PROPERTIES

Route of Entry

☑ Skin Contact ☐ Skin Absorption ☑ Eye Contact ☑ Acute Inhalation ☐ Chronic Inhalation ☑ Ingestion

Effects of Acute Exposure to Product

Skin	**Severe irritation of mucous and skin, removes natural skin oils.**
Eyes	**Severe eye irritation, intense watering of the eyes, possible lesions, possible blindness when exposed for prolonged period. Eye Irritation Data: Eye-Rabbit-10mg/ 24 h – Severe.**
Inhalation	**If inhaled in form of dust, irritation of breathing passages, cough, sneezing.**
Ingestion	**If ingested: pain, vomiting blood, diarrhea, collapse, drop in blood pressure (indicates perforation of esophagus or stomach).**

Effects of Chronic Exposure to Product:

Contact dermatitis. Following repeated or prolonged contact, this product can cause redness, desquamation and fissures. This product may contain trace amounts of crystalline silica. Excessive inhalation of respirable crystalline silica dust may result in respiratory disease, including silicosis, pneumoconiosis and pulmonary fibrosis.

LD_{50} of Product (Specify Species and Route) **Unavailable**	Irritancy of Product **Severe to moist tissues**	Exposure limits of Product **Unavailable**
LC_{50} of Product (Specify Species) **Unavailable**	Sensitization to Product **None**	Synergistic materials **None reported**

☑ Carcinogenicity ☐ Reproductive effects ☐ Tératogenicity ☐ Mutagenicity

Dolomitic Hydrated Lime is not listed as a carcinogen by ACGIH, MSHA, OSHA, NTP, DFG, RSST or IARC. It may, however, contain trace amounts of Crystalline Silica listed carcinogens by these organizations.

Crystalline Silica, which inhaled in the form of quartz or crystobalite from occupational sources, is classified by IARC as carcinogenic to humans. (Group 1)

Silica, crystalline (Airborne particles of respirable size) is regulated under California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). Crystalline Silica is listed as a chemical known to the State to cause cancer.

NIOSH considers crystalline silica to be potential occupational carcinogen as defined by the OSHA carcinogen policy [29 CFR 1990]. (Ca).

NTP lists respirable Crystalline Silica as known to be human carcinogens based on sufficient evidence of carcinogenicity in humans. (K).

ACGIH lists respirable Crystalline Silica (quartz) as suspected human carcinogen. (A2).

DFG lists respirable Crystalline Silica as a substance that causes cancer in man (1)

RSST lists respirable Crystalline Silica (quartz) as suspected human carcinogen.