

**RAILROAD COMMISSION OF TEXAS
OFFICE OF GENERAL COUNSEL**

**OIL AND GAS DOCKET
NO. 05-0268151**

**FINAL ORDER
APPROVING THE APPLICATION OF CCS MIDSTREAM SERVICES, L.L.C.
TO OPERATE ITS VORTEX TREATMENT FACILITY,
A COMMERCIAL STATIONARY TREATMENT FACILITY,
ASSOCIATED DISPOSAL PIT AND COLLECTING PIT,
PERMIT NOS. STF-028, CN 011595 AND CN 011596
JOHNSON COUNTY, TEXAS**

The Commission finds that after statutory notice in the above-numbered docket heard on December 15 & 20, 2010, the presiding examiners have made and filed a report and proposal for decision containing findings of fact and conclusions of law, which was served on all parties of record; that the proposed application is in compliance with all statutory requirements; and that this proceeding was duly submitted to the Railroad Commission of Texas at conference held in its offices in Austin, Texas.

The Commission, after review and due consideration of the examiners' report and proposal for decision, the findings of fact and conclusions of law contained therein, and any exceptions and replies thereto, except to the extent set out below, hereby adopts as its own the findings of fact and conclusions of law contained therein, and incorporates said findings of fact and conclusions of law as if fully set out and separately stated herein.

In addition, the Commission adopts the following Substitute Findings of Facts and Conclusion of Law:

Substitute Finding of Facts:

3. The application was administratively denied by staff of the Commission's Technical Permitting Section because the operation of a stationary treatment facility at the proposed location offers potential for pollution of groundwater and surface water. Additionally, Staff believes the site is unsuitable.
8. Wastes received at the Vortex facility will be non hazardous oil and gas wastes under the jurisdiction of the Railroad Commission, including the wastes identified in Section II. of the attached permit. The facility will receive liquid wastes (e.g. spent drilling mud) that are roughly 80% liquid and 20% solid, and "dry" wastes (e.g. drill cuttings) that are roughly 80% solid and 20% liquid.
14. The water zone was found to be perched, noncontiguous and of limited extent.
19. Use of Pit #1 for disposal of dry oil and gas waste will not endanger usable quality water resources, as Pit #1 will be artificially double lined and equipped with a leak detection system.
 - c. After excavation of Pit #1, the entire pit will be lined with three feet of compacted clay with permeability of 10^{-7} cm/sec.

Substitute Conclusion of Law:

- 3. CCS Midstream Services, L.L.C.'s application to operate a commercial stationary treatment facility and associated collecting pit and dispose of solid oil and gas waste in a disposal pit at the Vortex Treatment Facility complies with Statewide Rule 8 and will not result in pollution of surface water, useable quality water or result in waste of oil, gas or geothermal resources.

Therefore, it is ordered by the Railroad Commission of Texas that the application of CCS Midstream Services, L.L.C. to operate its Vortex Treatment Facility, STF-028, a commercial stationary treatment facility and associated disposal pit, CN-011595 and collecting pit, CN-011596, is hereby **GRANTED** in accordance with the attached permits.

Each exception to the examiners' proposal for decision not expressly granted herein is overruled. All requested findings of fact and conclusions of law which are not expressly adopted herein are denied. All pending motions and requests for relief not previously granted or granted herein are denied.

This order will not be final and effective until 20 days after a party is notified of the Commission's order. A party is presumed to have been notified of the Commission's order three days after the date on which the notice is actually mailed. If a timely motion for rehearing is filed by any party at interest, this order shall not become final and effective until such motion is overruled, or if such motion is granted, this order shall be subject to further action by the Commission. Pursuant to TEX. GOV'T CODE §2001.146(e), the time allotted for Commission action on a motion for rehearing in this case prior to its being overruled by operation of law, is hereby extended until 90 days from the date the order is served on the parties.

Done this 28th day of February, 2012

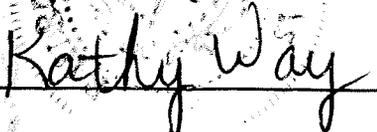
RAILROAD COMMISSION OF TEXAS


 Chairman Elizabeth James Jones


 Commissioner David Porter


 Commissioner Barry T. Smitherman



ATTEST: 
 Secretary

CCS MIDSTREAM SERVICES, LLC
363 N SAM HOUSTON PKWY E, STE 330
HOUSTON, TX 77060

Based on information contained in your application dated April 30, 2010 and subsequent information received to date, you are hereby authorized to receive, store, handle, treat and dispose of certain oil and gas wastes as specified below at the following facility:

Vortex Stationary Treatment Facility, Including Pit Permit Nos. 011595 & 011596
James Billingsley Survey, A-45; and James Lee Survey, A-509
Johnson County, Texas
RRC District 05

Generally, liquid waste will be unloaded at one of four Receiving Bays prior to pumping into the facility's Receiving Pit covered under Pit Permit No. P011596. All liquid waste will be pumped to aboveground tanks and/or process equipment located in the Process Area where they will be processed using mechanical and chemical methods to separate liquids and solids. Liquids collected will be transported through piping to the adjacent Vortex #1 SWD Well. Solids will be placed on the Process Solids Slab.

Wet solids will be placed onto the Process Solids Slab. Any liquids will drain into the Receiving Pit. Solids collected from the Process Area will be returned to the Process Solids Slab. Stackable solids will be placed onto an adjacent Drying Pad.

Dry solids will be placed onto the Drying Pad. Solids on the drying pad will be stabilized through evaporation and/or the use of lime, fly ash, cement, or sawdust if necessary, prior to final disposal in Disposal Pit #1 covered under Pit Permit No. Permit P011565.

Authority is granted to receive, store, handle, treat and dispose of oil and gas wastes in accordance with Statewide Rule 8 and subject to the following minimum conditions:

I. GENERAL PERMIT CONDITIONS

- A. This permit is effective 02/28/12, and expires 02/27/17.
- B. This permit may be considered for administrative renewal upon request and subsequent review by the Commission.
- C. This permit is nontransferable without the consent of the Commission.
- D. No waste may be received at the referenced facility until financial security in the amount of \$803,000 for the Vortex Stationary Treatment Facility, including the associated Disposal Pit #1 covered under Pit Permit No. P011595 and the Receiving Pit covered under Pit Permit No. P011596, is provided to and approved by the Commission.

- E. No waste may be received at the referenced facility until the monitor wells required by Condition V have been completed and the documentation required by Condition V.A have been provided to and approved by Technical Permitting.
- F. The permittee shall make all records available for review and/or copying during normal business hours upon request of Commission personnel.
- G. All laboratory analyses required to be performed by Conditions II.B.2., II.B.3., V.B., V.I.D., and VII.B. shall be performed by an independent laboratory neither owned nor operated by the permittee.
- H. Failure to comply with any provision of this permit will be cause for modification, suspension, or termination of this permit.
- I. The permittee shall submit a Semiannual Report containing the applicable information required in Conditions III.B., V.B., and VI.D. of this permit. The first Semiannual Report shall cover the period beginning on the effective date of the permit and ending June 30 2012. The reporting periods shall thenceforth be July 1 through December 31 and January 1 through June 30 of each year.

The Semiannual Reports shall be submitted to Technical Permitting in Austin and the Kilgore District Office no later than the 31st day of the month following each reporting period, or each January 31 and each July 31, respectively.

II. INCOMING WASTES

A. AUTHORIZED WASTES

- 1. Only non-hazardous wastes subject to the jurisdiction of the Railroad Commission of Texas may be received or processed at this facility. This permit authorizes the receipt and disposal of only the following oil and gas wastes:
 - a. Water based drilling fluids and associated cuttings;
 - b. Cuttings generated from the use of oil based drilling fluid;
 - c. Iron sulfide, which has been fully oxidized;
 - d. Contaminated soils from crude oil spills, pipeline and saltwater spills;
 - e. Absorbent pads from crude oil spills;
 - f. Formation sands and other solids from saltwater storage tanks or vessels and saltwater pits;
 - g. Solid waste from gas dehydration and sweetening (spent filters and filter media, molecular sieves, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber sludge);
 - h. Production tank bottoms which do not exceed 7% in oil content as determined by a Standard API Shakeout;
 - i. Waste solids resulting from crude oil reclamation;

- j. Liners from reserve and washout pits.
- 2. No produced water or free oil may be disposed of at the facility.
- 3. No iron sulfide waste may be received or disposed of at the facility unless the waste has been fully oxidized.
- 4. No oil and gas NORM (Naturally Occurring Radioactive Material) waste defined in 16 TAC §4.603 or waste from a facility that is licensed by the Texas State Health Services to process or treat oil and gas NORM waste may be received at this facility.
- 5. No waste may be received or disposed of at the facility if it is not a waste under the jurisdiction of the Railroad Commission of Texas. No hazardous waste as defined by the U.S. Environmental Protection Agency in 40 CFR Part 261 or industrial waste may be received or disposed of at the facility.

B. TESTING REQUIREMENTS FOR INCOMING WASTES

- 1. For the purposes of this permit, a representative sample of incoming waste is defined as a composite sample composed of one grab sample from each 50 cubic yards of waste material from each job (e.g., from each well, pit, spill location.)
- 2. Prior to receipt at the site, representative samples of waste from commercial oil and gas facilities and reclamation plants must be analyzed and may not exceed the limit for the following parameter:

<u>PARAMETER</u>	<u>LIMITATION</u>
TOX (Total Organic Halides)	100 mg/kg

Special authorization for disposal of waste with a TOX > 100 mg/kg may be considered. Authority must be obtained from Technical Permitting in Austin.

- 3. Prior to receipt at the site, representative samples of incoming RCRA non-exempt waste must be analyzed for the following parameters and may not exceed the following levels:

<u>PARAMETER</u>	<u>LIMITATION</u>
Metals	TCLP
Arsenic	< 5.0 mg/l
Barium	< 100.0 mg/l
Cadmium	< 1.0 mg/l
Chromium	< 5.0 mg/l
Lead	< 5.0 mg/l
Mercury	< 0.2 mg/l
Selenium	< 1.0 mg/l
Silver	< 5.0 mg/l

<u>PARAMETER</u>	<u>LIMITATION</u>
Benzene	< 0.5 mg/l

4. Each load of incoming waste, other than water base drilling fluid and the associated cuttings, or oil base drilling fluid and the associated cuttings, must be scanned for the presence of naturally occurring radioactive material (NORM) using a scintillation meter with a sodium iodide detector. Any load with a maximum reading of 50 microroentgens per hour or more may not be unloaded or processed at the facility unless further analysis of the waste demonstrates that the waste does not exceed 30 picocuries per gram Radium-226 combined with Radium-228 or 150 picocuries per gram of any other radionuclide.

III. RECORDKEEPING REQUIREMENTS

- A. The permittee shall maintain the following records on each load of waste received at the facility for a period of three (3) years from the date of receipt:
 1. Description of the site where the waste was generated, including:
 - a. Generator name;
 - b. Lease name and number or gas ID or API Well Number;
 - c. County;
 2. Name of transporter;
 3. Amount of waste material (specify units); and
 4. A description of the type of waste material, including:
 - a. Fluid-to-Solid ratio; and
 - b. Detailed description of the type of waste including any analysis required by II.B.2 and II.B.3 above.
- B. A report of all records required by Condition III.A. above, as well as a summary of waste receipts including the volume of each type of material received on a monthly basis shall be submitted to Technical Permitting in Austin and the Kilgore District Office as part of the Semiannual Report required in Condition I.I. of this permit.

IV. GENERAL SITE CONSTRUCTION AND MAINTENANCE REQUIREMENTS

- A. The general layout and arrangement of the facility shall be consistent with the site plan dated April 29, 2010, which is attached to and incorporated as part of this permit as **Permit Appendix A.**
- B. A sign shall be posted at each entrance to the facility, which shall show the permit number in letters and numerals at least one-inch in height.

- C. All chemicals used in the treatment process shall be stored in vessels designed for the safe storage of the particular chemical. These vessels shall be maintained in a leak-free condition.
- D. The Process Area shall consist of the following equipment:
- One shaker;
 - One 120-bbl shaker transfer tank;
 - Two centrifuges;
 - Two nominal capacity centrifuge catch tanks;
 - Two 500-bbl mixing tanks;
 - Two 80-bbl polymer tanks;
 - One 100-bbl acid tank;
 - Four 500-bbl centrate holding tanks;
 - One containment sump for wash downs and spills.
- E. The Process Area equipment shall be supported on a concrete slab with a thickness of at least 12 inches. A 4-foot high cement masonry unit (CMU) wall shall entirely surround the Process Area equipment.
- F. Spills and/or incidental wash-down water contained in the Process Area sump shall be removed immediately. Waste contained in the sump shall be disposed of in an authorized manner.
- G. The Process Solids Slab must be constructed of concrete with a thickness of at least 12 inches, and encompass an area no larger than 6,000 square feet.
- H. The Process Solids Slab must be graded to drain to the adjacent Receiving Pit. Accumulation of free liquids on the Process Solids Slab is not authorized.
- I. The Process Solids Slab shall contain no more than 220 cubic yards of waste at any time.
- J. The Receiving Bay staging area shall be supported on a concrete slab with a thickness of at least 12 inches.
- K. All waste received in the Receiving Bays must be pumped through facility piping to the Receiving Pit (P011596). No waste may accumulate in the Receiving Bays.
- L. The Drying Pad must be constructed with 3 feet of compacted clay constructed in 6-inch lifts with a hydraulic conductivity of no more than 1×10^{-7} cm/sec, and encompass an area no larger than 2 acres.
- M. The Drying Pad must utilize a sacrificial soil layer of at least 12 inches thick on top of the constructed clay liner.
- N. The Drying Pad shall contain no more than 3,225 cubic yards of waste at any time.
- O. The Drying Pad must be graded to drain to an adjacent collecting sump where incidental fluids must be pumped to the treatment facility. Accumulation of free liquids on the surface of the Drying Pad is not authorized.

- P. The Drying Pad shall be constructed and maintained to ensure compliance with the Stormwater Control plan in Section IX of this permit.
- Q. All pits and/or buried tanks shall be permitted in accordance with Statewide Rule 8.
- R. All untreated waste shall be contained on the Process Solids Slab, the Drying Pad, in steel tanks, or in permitted pits. Tanks shall be maintained in a leak-free condition.
- S. All above ground tanks containing untreated waste shall be diked. Dikes shall be constructed and maintained to contain the tanks' maximum capacity, plus 12 inches of freeboard.
- T. The perimeter of the property shall be enclosed with a fence suitable to keep out livestock. The site is to be attended continuously or secured when unattended.
- U. Any spill of waste, treating chemical, or any other material shall be promptly cleaned up and processed through the treatment process or disposed of in an alternate manner approved by the Commission.

V. RECEIVING PIT (P011596) CONSTRUCTION AND OPERATION

- A. Use of the Receiving Pit (Permit No. 011596) is limited to waste as described in Condition II.A. of this permit and incidental fluid runoff from the Process Solids Slab and the Drying Pad at the referenced facility.
- B. The Receiving Pit must be constructed of concrete at least 12 inches thick at the base of the pit, and 10 inches thick on the walls of the pit.
- C. The liner must be installed in accordance with sound engineering practices.
- D. The capacity of the Receiving Pit may not exceed 3,715 barrels.
- E. At least 2 foot of freeboard must be maintained between the fluid level in the pit and the top of the pit.
- F. The pit must be emptied and the liner inspected annually for deterioration and/or leaks. The Kilgore District Office must be notified at least 48 hours before each inspection. The liner must also be inspected whenever evidence of liner leakage arises. If inspection of the liner reveals a leak or other loss of liner integrity, the liner must be replaced or repaired before resuming use of the pit.
- G. The permittee must maintain a record of when the liner is inspected and the results of each inspection. This record shall be submitted to Technical Permitting in Austin as part of the Semiannual Report required in Condition I.I. of this permit.
- H. Unless otherwise required by conditions of this permit, construction, use, and maintenance of the pit shall be in accordance with the information represented on the application (Form H-11) and attachments thereto.
- I. A sign shall be posted at the pit, which shall show the pit permit number in numerals at least one inch in height.
- J. The pit must be dewatered, emptied, backfilled, and compacted within 120 days of final cessation of use of the pit. Final closure of the pit must be accomplished in

such a manner that rainfall will not collect at the pit location after pit closure. Upon final closure, Technical Permitting in Austin and the Kilgore District Office shall be notified in writing.

VI. DISPOSAL PIT #1 (Permit No. 011595) CONSTRUCTION AND OPERATING CONDITIONS

- A. Technical Permitting in Austin and the Kilgore District Office must be notified in writing upon final completion of construction of the pit. The permittee may not begin using the pit until the District Office has completed an inspection of the pit and provided written verification that the pit is constructed in accordance with the application and permit.
- B. The capacity of the pit may not exceed 790,000 barrels.
- C. This permit does not authorize the discharge of any oil and gas waste from the pit.
- D. Unless otherwise required by the conditions of this permit, construction, use, maintenance, and closure of the pit shall be in accordance with the information represented on the application (Form H-11) and the attachments thereto.
- E. Pit dikes must be constructed to completely surround the pit at a minimum height of two feet and minimum width at the base of six feet.
- F. The pit must be constructed with a 60-mil high-density polyethylene secondary (bottom) liner and a 60-mil high-density polyethylene primary (top) liner.
- G. The pit must be equipped with a leak detection system, including a high-density polyethylene drainage net with a thickness of at least 200 mils that covers the entire pit between the primary and secondary liners, to collect any leakage from the primary liner.
- H. The liners and the leak detection system must be installed in accordance with the liner manufacturer's specifications and sound engineering practices.
- I. All waste received into Disposal Pit #1 must be analyzed in accordance with Condition II.B. of this permit and/or processed through the on-site Treatment Facility Area prior to its disposal in the referenced disposal pit. Any liquid resulting from the dewatering process must be disposed of in an authorized manner.
- J. A sign shall be posted at the pit that shows the pit permit number in numerals at least one inch in height.
- K. At least four (4) feet of freeboard must be maintained at all times between the level of waste in the pit and the top of the pit dikes (2 feet between the level of the waste in the pit and ground level).
- L. Leachate collected in the leachate collection sump must be removed through the pump system and disposed of in an authorized manner.
- M. The Kilgore District Office must be notified within 24 hours if the leak detection system indicates liner failure.

- N. If the leak detection system indicates liner failure, disposal into the pit must cease immediately and the liner must be inspected for deterioration and leaks within five (5) days. The liner must be repaired before use of the pit may resume. If the liner cannot be repaired, the pit must be closed in accordance with Condition X of this permit.
- O. The leak detection system shall be checked weekly and the permittee must maintain a record of when the liner and the leak detection system are inspected and the results of each inspection. This record must be maintained by the permittee for the life of the pit, and upon request of the Commission, the record shall be filed with the Commission.
- P. No free oil may be allowed to accumulate on top of the waste stored in the pit. Any free oil on top of the waste must be skimmed off.
- Q. Any spill of waste, treating chemicals, or any other material shall be promptly cleaned up and the resulting waste disposed of in an authorized manner.
- R. All waste shall pass the Paint Filter Test (EPA Method 9095) and shall not exceed any EPA Hazardous Waste Criteria as defined in 40 CFR Part 261 prior to disposal in the referenced pit. Test results from each Paint Filter Test must be submitted to Technical Permitting in Austin as part of the Semiannual Report required in Condition I.I.
- S. No freestanding fluids may accumulate in the pit. Any fluids must be removed within 72 hours of discovery and disposed of in an authorized manner.
- T. Upon final cessation of the use of the pit, the pit must be closed in accordance with Condition X of this permit. Any request to modify the closure plan must be filed with Technical Permitting. Upon final closure, Technical Permitting in Austin and the District Office shall be notified in writing.
- U. Technical Permitting in Austin and the Kilgore District Office must be notified in writing at least 45 days prior to commencement of closure activities.

VII. MONITOR WELLS

- A. Six (6) monitor wells must be installed in the locations shown on the plat received April 30, 2010, which is attached to and incorporated as part of this permit as **Permit Appendix A**.
 1. The wells must be completed in accordance with 16 TAC Part 4, Chapter 76 (Water Well Drillers and water Well Pump Installers).
 2. The wells must be completed in the shallowest groundwater zone and the completion must isolate that zone from any deeper groundwater zone.
 3. The screened interval of the wells must be designed to intercept the top of the groundwater.
 4. Provision must be made to protect the well heads from damage by vehicles and heavy equipment.

5. The following information must be submitted after the wells are completed:
 - a. A soil boring log for each well, with the soils described using the Unified Soil Classification System (equivalent to ASTM D 2487 and 2488). The log must also include the method of drilling, total depth, and the top of the first encountered water or saturated soils.
 - b. A well installation diagram for each well.
 - c. A survey elevation for each well head reference point.
 - d. A potentiometric map showing static water levels and the calculated direction of groundwater flow.

- B. The monitor wells must be monitored for the following parameters after installation and quarterly thereafter:
 1. Static water level.
 2. Benzene
 3. TPH
 4. TDS
 5. Chlorides
 6. Bromides
 7. Sulfates
 8. Nitrates
 9. Carbonates
 10. Calcium
 11. Magnesium
 12. Sodium
 13. Potassium

Copies of the results must be filed with Technical Permitting as part of the Semiannual Report required in Condition I.I. of this permit.

VIII. OPERATION AND PROCESS CONTROL

- A. Incoming waste that does not pass the Paint Filter Test must be unloaded directly from the transport truck or trailer into the Receiving Pit (P011596) through the pump system or the Process Solids Slab. The waste may not be unloaded onto the ground or directly into Pit P011595 (Disposal Pit #1).
- B. The Process Solids Slab and the Drying Pad shall be cleared and inspected annually for deterioration. If inspection reveals deterioration, the pads must be repaired before resuming use of the pads.
- C. The permittee must maintain a record of when the pads are inspected and the results of each inspection. This record shall be submitted to Technical Permitting in Austin as part of the Semiannual Report required in Condition I.I. of this permit.
- D. Any treated solid waste shall pass the Paint Filter Test (EPA Method 9095) and shall not exceed any EPA Hazardous Waste Criteria as defined in 40 CFR Part 261 prior to disposal in a disposal pit.
- E. Successfully treated waste material shall be removed from the treatment facility for disposal in a disposal pit.

IX. STORMWATER CONTROL

- A. Dikes must be constructed to a height of at least two (2) feet and width at base of at least six (6) feet to completely surround the Treatment Facility Area. The dikes must be maintained such that no stormwater runoff may enter or exit the treatment facility area. Any road(s) traversing the dikes may not compromise the integrity of the dikes' ability to control stormwater.
- B. Stormwater collected in the treatment facility area must be collected and disposed of in an authorized manner.
- C. Stormwater at the treatment facility shall not contain a visible oil film (rainbow) at any time.

X. CLOSURE OF THE SITE

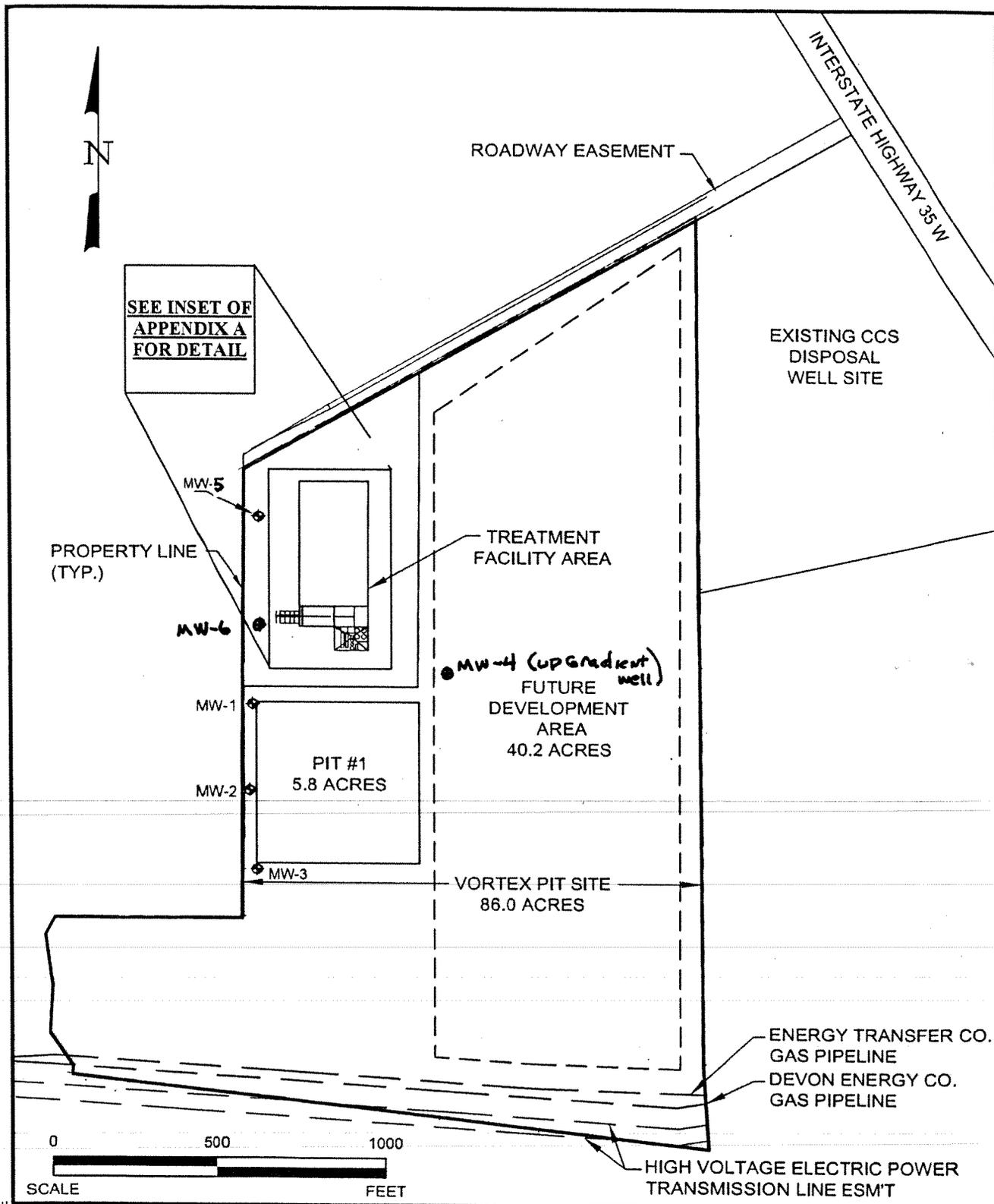
- A. Closure of the Vortex Stationary Treatment Facility shall proceed as follows:
 - 1. All waste must be processed through the facility or disposed of in an authorized manner.
 - 2. The contents of all containment areas, tanks, vessels, or other containers shall be disposed of in an authorized manner.
 - 3. All treatment equipment shall be removed and salvaged, if possible, or disposed of in an authorized manner.
 - 4. After waste removal and site excavation are completed, representative soil samples shall be obtained from around the location of the Drying Pad, Receiving Pit, Process Solids Slab, and Process Area. These composite samples shall be analyzed and the following constituent levels shall not be exceeded:

Constituent (units)	Closure Limit
pH (s.u.)	6.0 to 10.0
Electrical Conductivity (EC)	4.0
TPH (mass %)	<1
BTEX (mg/kg)	30.0
Metals (mg/kg):	
Arsenic	10.0
Barium	10000.0
Cadmium	10.0
Chromium	100.0
Lead	200.0
Mercury	10.0
Selenium	10.0
Silver	200.0

5. A map showing the sampling locations and copies of the analysis required by Condition X.A.4 shall be submitted to Technical Permitting in Austin. When acceptable constituent levels have been verified in writing by Technical Permitting, the earthen berms shall be leveled to grade. Topsoil shall then be contoured and seeded with appropriate vegetation.
 6. The Disposal Pit #1 covered under Permit P011595 shall be dewatered, stabilized, and covered with the pit cap as shown in Figure 23-1 of your application dated April 30, 2010.
 7. Provision shall be taken to prevent erosion both during and following closure activities.
- B. Technical Permitting and the Kilgore District Office shall be notified in writing at least 45 days prior to commencement of closure activity so that the Commission may monitor closure to assure compliance with the closure plan.

This authorization is granted subject to review and cancellation should investigation show that such authorization is being abused.

APPENDIX A



Environmental Resources Management

SITE PLAN COMMERCIAL STATIONARY TREATMENT FACILITY Vortex Site

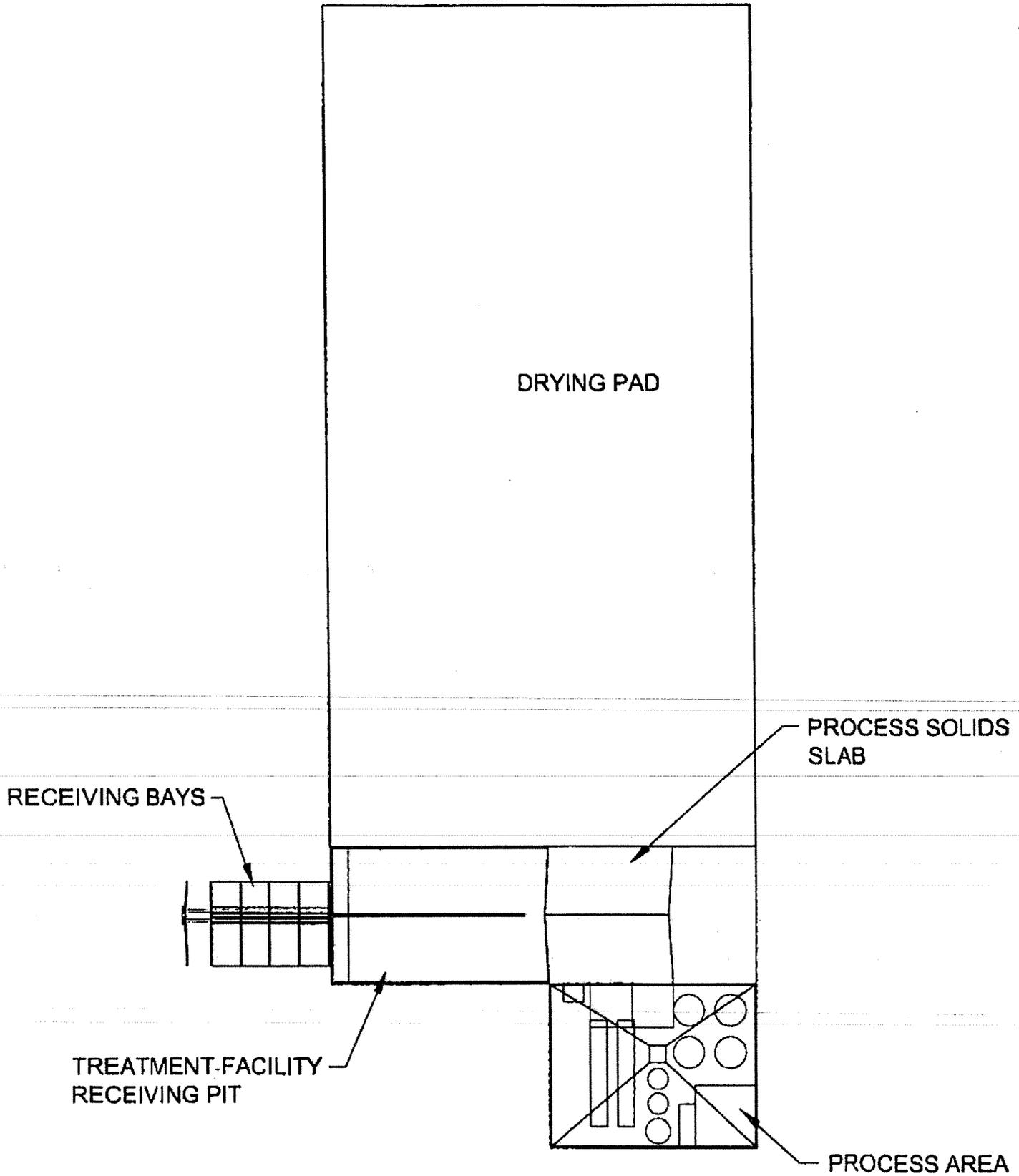
Permits STF-028, P011595, P011596
CCS Midstream Services, LLC
Johnson County, Texas



DESIGN: MZ	DRAWN: CAK	CHKD.: KS
DATE: 4/29/2010	SCALE: AS SHOWN	REV.:
W.O. NO.: H:\DWG\GD10\10113566a221.dwg, 4/29/2010 3:46:39 PM		

ERM-Southwest, Inc. TX PE

APPENDIX A ONSET OF TREATMENT FACILITY



CCS Midstream Services
Vortex Stationary Treatment Facility
Permits STF-028, P011595, P011596