

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

Operator FAB1434439475 Initial Report Final Report

Name of Company	Agave Energy Company	Contact	Jennifer Knowlton
Address	105 South 4 th Street Artesia, NM	Telephone No.	575-748-4471
Facility Name	Valve Box #11	Facility Type	Gas Right Of Way

Surface Owner - Private	Mineral Owner	API No.
-------------------------	---------------	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	5	19S	25E					EDDY

Latitude 32.68509 Longitude 104.49963

NATURE OF RELEASE

Type of Release: Produced Water and Sour Gas	Volume of Release N/A <u>UNK</u>	Volume Recovered N/A <u>UNK</u>
Source of Release 6" PVC gas line	Date and Hour of Occurrence 7/30/14 0917	Date and Hour of Discovery 7/30/14 0917
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher	
By Whom? Jennifer Knowlton	Date and Hour 7/30/14 1135	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

NM OIL CONSERVATION

ARTESIA DISTRICT

AUG 22 2014

RECEIVED

Describe Cause of Problem and Remedial Action Taken.*
During routine pipe maintenance, the pipe blew produced water, sour gas and oil out of the valve box.

Describe Area Affected and Cleanup Action Taken.*
At this time, due to other restrictions, no cleanup action has been taken.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <u>Jennifer Knowlton</u>	OIL CONSERVATION DIVISION	
Printed Name: Jennifer Knowlton	Approved by Environmental Specialist:	
Title: Environmental Manager	Approval Date: <u>12/10/14</u>	Expiration Date: <u>N/A</u>
E-mail Address: jknowlton@yatespetroleum.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines Attached <input type="checkbox"/>	
Date: 8/5/2014 Phone: 575 748-4471	SUBMIT REMEDIATION PROPOSAL NO	

* Attach Additional Sheets If Necessary

IAB1434440803

LATER THAN: 11/10/15

2RP-2651

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Michael Gant</u> Title: <u>Environmental Coordinator</u> Signature: <u><i>MGant</i></u> Date: <u>3/10/2021</u> email: <u>MGant@lucid-energy.com</u> Telephone: <u>3143307876</u>
<u>OCD Only</u> Received by: _____ Date: _____

Incident ID	
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Michael Gant Title: Environmental Coordinator

Signature: *MGant* Date: 3/10/2021

email: MGant@lucid-energy.com Telephone: 3143307876

OCD Only

Received by: _____ Date: _____

Incident ID	
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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Michael Gant Title: Environmental Coordinator
 Signature: *MGant* Date: 3/10/2021
 email: MGant@lucid-energy.com Telephone: 3143307876

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Incident ID	nAB1434440417
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Michael Gant Title: Environmental Coordinator
 Signature: *MGant* Date: 3/10/2021
 email: MGant@lucid-energy.com Telephone: 3143307876

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: *Bradford Billings* Date: 09/07/2021
 Printed Name: Bradford Billings Title: Envi. Spec.A

FINAL REPORT SUMMARIZING CLOSURE FOR INCIDENT 2RP-2651-0

AGAVE ENERGY COMPANY
VALVE BOX # 11
SECTION 5, T19S R25E, NM
EDDY COUNTY, NM



Prepared by:
Souder, Miller & Associates
201 S. Halagueno
Carlsbad, NM 88221
575-689-7040

Prepared for:
Agave Energy Company
105 South Fourth Street
Artesia, NM 88221



Engineering ♦ Environmental ♦ Surveying

Ref # 5123302 BG4
www.soudermiller.com

Valve Box #11 Closure Report
Agave Energy Company
Sec 5 T19S R25E, Eddy County, New Mexico
December 5, 2014 Revised February 13, 2015

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1.0 EXECUTIVE SUMMARY

Souder, Miller & Associates (SMA) has completed the remediation of the release of natural gas and associated pipeline liquid at the Valve Box #11 that occurred on July 30, 2014. The release occurred during a pipeline maintenance operation resulting in an unexpected loss of pressure. An unknown volume of sour natural gas and associated pipeline liquids was released. The release was reported July 30, 2014 via telephone to NMOCD District 2. The site is located in Section 5, Township 19 South, Range 25 East, Eddy County, New Mexico. Figure 1 illustrates the location of the release. This report outlines the remedial activities performed by Souder Miller & Associates on behalf of Agave Energy Company. This report also provides the third party analytical data that shows the remedial activities were successful. The analytical results for soils remaining at the location are well below all Recommended Remediation Action Levels (RRALs) for the site specific characteristics at the Valve Box #11.

This project was conducted under the regulatory jurisdiction of the NMOCD 19.15.1.19 NMAC, Subsection B, Paragraphs 1 and 2. The NMOCD hydrocarbon soil remediation levels were determined through the ranking criteria on a site-by-site basis, as outlined in the NMOCD Guidelines for Remediation of Spills, Leaks, and Releases, dated August 13, 1993. The ranking criteria are based on three site characteristics: depth to groundwater, water wellhead protection, and distance to surface water. Refer to NMOCD Workplan in Appendix A.

After completion of remediation activities, final grading was performed to mitigate erosion. Closure of the spill should be requested. The final data and closure request are included in this report and the NMOCD Form C-141 Release Notification and Corrective Action Final Report are enclosed herewith.

SMA recommends:

1. **File for Closure** – This closure report and a signed C-141 Final should be provided to NMOCD for approval.
2. **Revegetation of the location** – To comply NMOCD closure requirements, SMA recommends revegetation of the location by reseeding. Refer to Figure 5.

2.0 BACKGROUND

On July 30, 2014, a release of natural gas and associated pipeline liquid occurred at the Valve Box #11 during a pipeline maintenance operation. An unknown quantity of sour gas and pipeline liquids was released, resulting in adverse impacts to the location.

At the request of Agave Energy Company, SMA and its subcontractors mobilized to the site August 27, 2014, to conduct the work proposed in the approved NMOCD Workplan (Appendix A), completing the various tasks during the weeks September 9 and September 15, 2014.

3.0 PRELIMINARY STEPS

Previous to the start of work, notification was given to the land owner, Mr. Howell, and a One-Call (New Mexico 811) made prior to start of this project. On August 27, 2014, after a daily tailgate safety meeting and Job Safety Analysis (JSA), work began. Safety documentation is provided in Appendix B. SMA field personnel conducted the following requested sampling in addition to the standard

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sampling needed for site assessment. All of the additional samples were taken in duplicate, placed in 8 oz sample jars, and custody sealed on site. All samples were collected and sealed under the supervision of Rick Foley Investigations, LLC. The requested sample locations provided by Agave Energy Company are listed below.

- Two samples of the black contaminated soil taken directly from the area where the two pipe ends are exposed (where the ruptured pipe was separated).
- Samples from the material at the base of the cylindrical sheet metal enclosures on the site.
- Samples of the ground/material away from the spill area for a basis of comparison.

Date	Time	Sample ID	Description	Storage Laboratory
8/27/14	10:00	#3	material at the base of the cylindrical sheet metal enclosures	Hall Environmental Analysis Laboratory
8/27/14	11:30	#4	ground/material away from the spill for a basis of comparison	Hall Environmental Analysis Laboratory
9/19/14	13:17	#1	(South) soil taken directly from the area where the two pipe ends are exposed	Hall Environmental Analysis Laboratory
9/19/14	12:45	#2	(North) soil taken directly from the area where the two pipe ends are exposed	Hall Environmental Analysis Laboratory
9/19/14	15:00	#0	(Center) soil taken directly from the area where the two pipe ends are exposed	Hall Environmental Analysis Laboratory

Each sample container was labeled, placed on ice in an insulated cooler, and chilled to a temperature of approximately 40°F (4°C). The cooler was sealed for shipment to the laboratory. Proper chain-of-custody documentation did accompany the samples to the laboratory. Refer to Appendix D.

4.0 PIPELINE MAINTENANCE ACTIVITIES

Because of safety concerns, Agave Energy Company (AEC) required SMA and its third party contractors to begin the remedial excavation only after several area pipeline projects were completed. The isolation and installation of above ground valve settings at the Nicholas, Johnson, Rushing, Matlock, Warren and Polo batteries were necessary to ensure the control of pipelines within the valve box. See Figure #2. The projects were intended to improve the overall efficiency and safety across the Dagger Draw gathering system. The majority of field activities performed by SMA and its contractors from September 2 to September 12, 2014 were pipeline maintenance projects to ensure that the AEC requirements for safe entry into Valve Box 11 were met. Refer to Appendix C. On Friday, September 14, 2014, an onsite inspection and review was conducted by the AEC Operations Manager and the Environmental Coordinator to confirm that all safe entry requirements were met and to approve the initiation of the remedial excavation.

During this time period, SMA and its third party contractors also assisted in the excavation and installation of the above ground valve stations for the produced water gathering system owned and operated by Yates Petroleum Corporation. Under the supervision of the Dagger Draw Area Foreman Mike Farmer, SMA and its contractors isolated (shut-in), depressurized (blew down) and locked out/tagged out the YPC water mains in the Valve Box # 11 area. These actions were to ensure the safety of all in the area because the two sister systems were installed simultaneously and share a common trench. The six inch YPC water main was rerouted out of Valve Box #11 and an above ground valve station installed to enable safe operation on the YPC water system during the pipeline maintenance and remedial excavation at Valve Box #11. SMA also provided invoicing support and approval for this YPC-only phase of the project. All produced water related costs were

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billed directly to YPC and approved by the Area Foreman per the pre-established agreement between the two companies.

Along with the projects to secure the below ground assets, several days were needed for SMA to secure the above grade location at Valve Box #11. A perimeter fence was established around the location to prevent entry by the public or Howell Ranch livestock. All above ground debris from the release had to be removed and reviewed by AEC personnel for the incident investigation. The 210 bbl fiberglass tank used for fluid recovery during pipeline maintenance operations had to be removed and disposed of.

5.0 REMEDIATION & SAMPLING ACTIVITIES

On the afternoon of September 15, 2014, all notifications and safety concerns had been met and approval from AEC obtained. SMA began implementation of the NMOCD approved remedial action. (Appendix A). The primary objectives of this work were the mitigation of the affected soils at the site followed by written acceptance from the NMOCD for closure of the spill event on behalf of SMA's client, Agave Energy Company.

The initial site assessment activities performed by SMA effectively established the site classification and the Recommended Remediation Action Levels in accordance with NMOCD regulatory guidance documents. With completion of the initial pipeline maintenance project that preceded the release, the primary areas of affected soils were excavated with the spoil placed in a lined berm at the neighboring YPC Johnson BE Battery. Samples were taken from the spoil stockpile and it was determined that the all of the affected soils met the RRALs for closure. Because of the close proximity to a lease access road and multiple pipeline Rights Of Way (ROWs), all excavation activities were guided through field screening of the excavation using a Photoionization Detector (PID) and Volhards Method Chloride Ion Concentration by Titration.

Field screening of the soil stockpile on September 30 2014 indicated that the RRALs had been reached. The NMOCD District 2 Artesia office was notified in person of the confirmation sampling activities conducted on October 2, 2014. Composite soil samples were taken of the soil stockpile and remedial excavation for laboratory confirmation of achievement of the RRALs. The composite sample locations were based on the geometry of the spill pile. Seven grab samples were taken from in and around the newly installed above ground valve stations at the location. See Figure 4 for sample locations. Each sample container was labeled, placed on ice in an insulated cooler, and chilled to a temperature of approximately 40°F (4°C). The cooler was sealed for transfer to the laboratory. The soil samples were delivered by Keynote courier to Hall Environmental Analysis Laboratory, in Albuquerque, New Mexico for TPH (GRO/ DRO) analysis by EPA Method 8015 (modified), Chloride Ion Concentration EPA Method 300.1 and BTEX analyses by EPA Method\8021B. Proper chain-of-custody documentation accompanied the samples to the laboratory.

With all analytical results below NMOCD RRALs, NMOCD was notified of site closure, pending revegetation and the submittal of a C-141 Final. The stockpile and containment berm were dismantled and top soil was brought in with the area rancher's approval to restore grading and mitigate erosion.

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6.0 REVEGETATION PLAN

Revegetation activities should be conducted on the entire area of disturbance to minimize soil erosion, inhibit noxious and undesirable invasive weed growth, and allow for the establishment of indigenous plants and wildlife as well as special status plant habitat components.

Vegetative and structural soil stabilization practices will be required on the working surfaces and in the spill remediation areas shown in Figure 5 to prevent wind and water erosion. All disturbed surfaces, included in Figure 5, will need to be seeded with a BLM approved seed mix.

Livestock in the area may need to be removed or denied access to the area for a short period of time to meet the revegetation objectives. SMA recommends that all reseeding attempts be made during the monsoon season starting in June and ending in August. An estimate of the reseeding cost at the location is presented in Figure 6. Also attached in Appendix F is the BLM recommended seed mix for the area.

7.0 CONCLUSIONS

The majority of the work and consultation provided by SMA in this incident was related to the supporting systems around Valve Box #11. The valve station at Valve Box #11 has been completely re-designed by others with the safety of the environment and the operator in mind. The location has been successfully remediated and all filings with the NMOC have been performed. With the establishment of new vegetation on the location, the release should be closed with respect to NMOCD requirements.

8.0 RECOMMENDATIONS

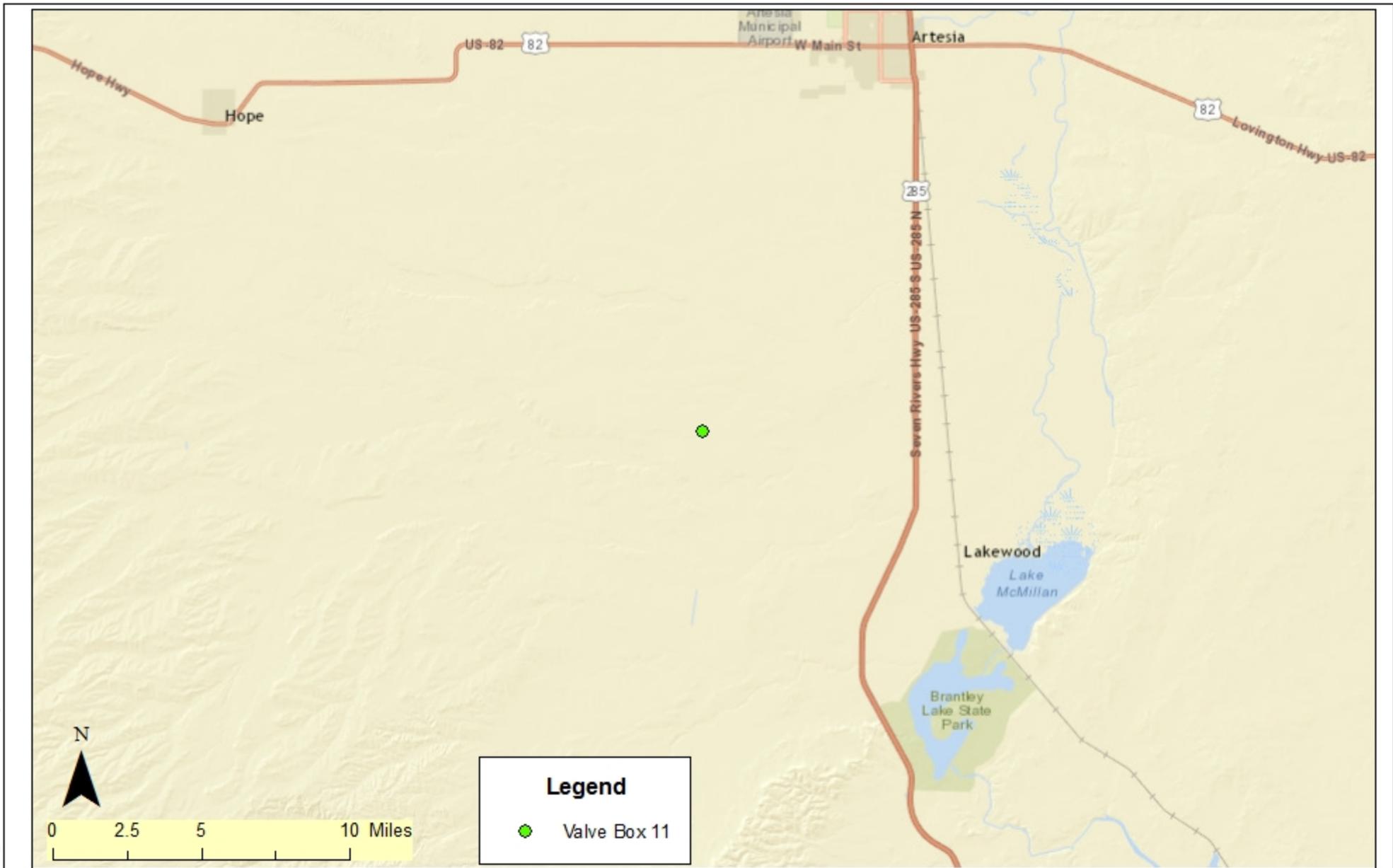
SMA recommends the following future activities regarding the AEC Valve Box #11 site:

1. **File for closure** – This closure report and a signed C-141 Final should be provided to NMOCD for approval.
2. **Revegetation of the location** – To comply with NMOCD closure requirements, SMA recommends revegetation of the location by reseeding according to the Revegetation Plan attached in Appendix F.

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December 5, 2014 Revised February 13, 2015

Figure 1

Site Vicinity Map



Location Map for Site
 Valve Box 11
 Artesia, New Mexico

Figure 1

Revisions		
By: _____	Date: _____	Descr: _____
By: _____	Date: _____	Descr: _____

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Drawn	Lucas Middleton
Checked	_____
Approved	_____



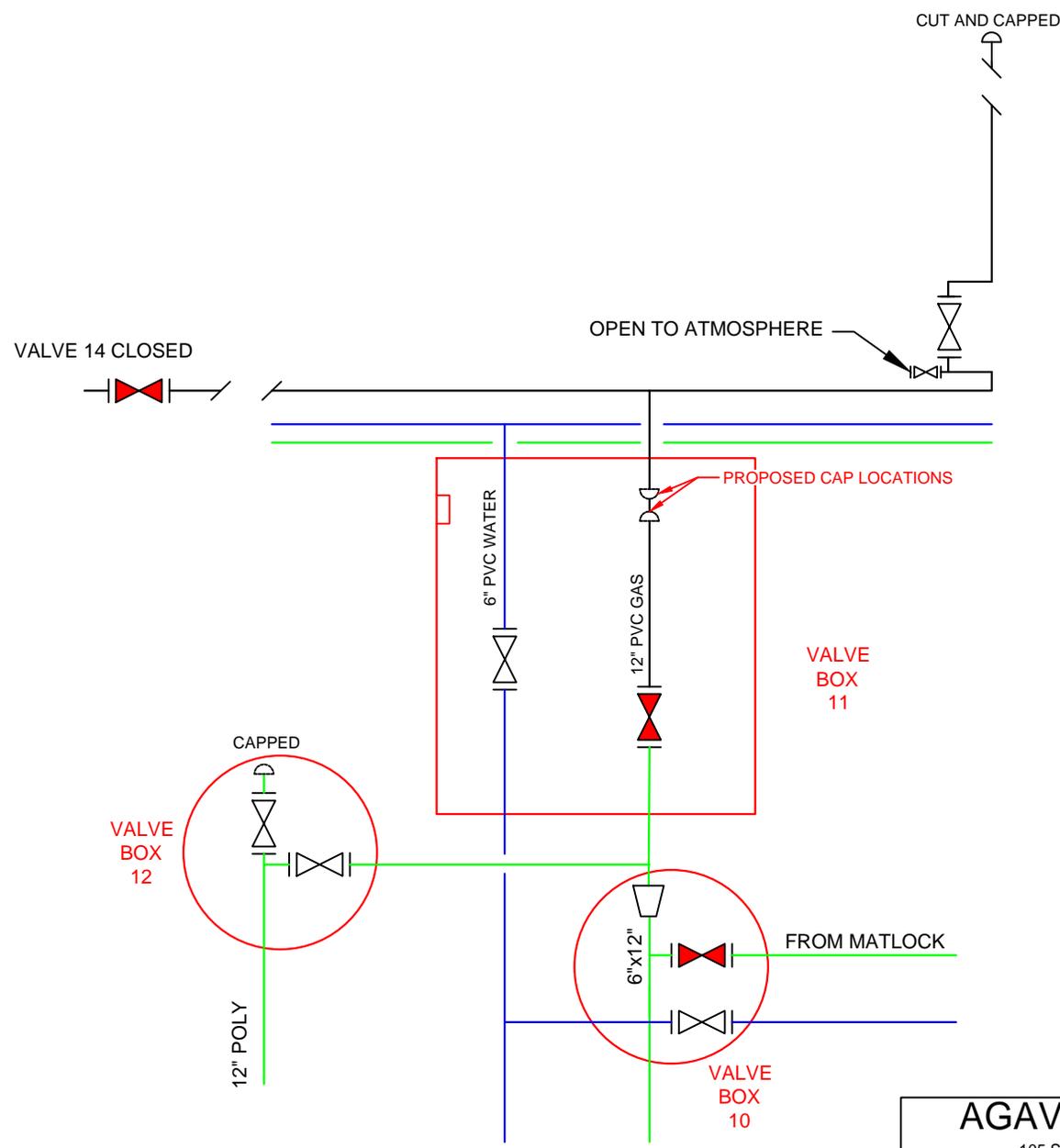
201 South Hologuena Street
 Corliss, New Mexico 88221
 (575) 689-7040
 www.soudermiller.com
 Serving the Southwest & Rocky Mountains

Document C:\Use is\Map\Document & Maps\Valve Box 11 location map.mxd

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Agave Energy Company
Sec 5 T19S R25E, Eddy County, New Mexico
December 5, 2014 Revised February 13, 2015

Figure 2

Valve Box #11 Layout 9/18/14



- CAP
- SHUT VALVE
- OPEN VALVE
- REDUCER
- GAS LINE
- ABANDONED GAS LINE
- YATES WATERLINE

AGAVE ENERGY COMPANY

105 South Fourth Street, Artesia New Mexico 88210

VALVE BOX 11

DRAFTING: WDM		COUNTY: EDDY	SECTION:
CHECK:		STATE: NEW MEXICO	TOWNSHIP:
SIZE: ANSI A	SCALE: NA	NAD 83 US STATE PLANES	RANGE:
PRINTED: 8/01/14		EAST ZONE, US FOOT	SHEET 1 of 1

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Agave Energy Company
Sec 5 T19S R25E, Eddy County, New Mexico
December 5, 2014 Revised February 13, 2015

Figure 4

Closure Sampling Map



Vb #11 Sample Map
 Valve Box 11
 Artesia, New Mexico

Figure 4

Revisions		
By: _____	Date: _____	Descr: _____
By: _____	Date: _____	Descr: _____

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Drawn	Lucas Middleton
Checked	_____
Approved	_____



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Document C:\Users\miller\Documents\Maps\ValveBox 11 sample map.mxd

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Figure 5

Recommended Revegetation



Recommended Seeding
 Valve Box 11
 Artesia, New Mexico

Figure 5

Date: 12/9/2014

Revisions
 By: _____ Date: _____ Descr: _____
 By: _____ Date: _____ Descr: _____
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Drawn Lucas Middleton
 Checked _____
 Approved _____



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Figure 6

Revegetation Estimate

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December 5, 2014 Revised February 13, 2015

Appendix A

NMOCD Workplan

Mr. Mike Bratcher
New Mexico Oil Conservation Division
811 S. First St
Artesia, NM 88210

**RE: Valve Box #11 Soil Remediation and Closure Workplan
Agave Energy Company
Section 5, T19S, R25E
Eddy County, NM**

Dear Mr. Bratcher:

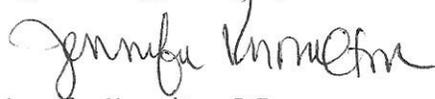
Agave Energy Company is pleased to submit for your review a copy of the Valve Box #11 Soil Remediation and Closure Workplan located in Eddy County, New Mexico (Section 5 Township 19 South, Range 25 East).

Upon your approval, Agave Energy Company will move forward with the following remediation and closure activities. Attached is a hard copy of the workplan .

If you have any questions please call 575-748-4555 or send via post to
Agave Energy Company
105 South Fourth Street
Artesia, NM 88210

Sincerely

Agave Energy Company.



Jennifer Knowlton P.E.

**NM OIL CONSERVATION
ARTESIA DISTRICT
AUG 22 2014
RECEIVED**



Souder, Miller & Associates ♦ 201 S. Halagueno ♦ Carlsbad, NM 88221
(575) 689-7040

VALVE BOX # 11 SOIL REMEDIATION AND CLOSURE WORKPLAN

AGAVE ENERGY COMPANY
Valve Box #11 North Dagger Draw
SECTION 5, T19S, R25E
EDDY COUNTY, NEW MEXICO

Prepared For:

Jennifer Knowlton PE
Agave Energy Company

Prepared By:

Souder Miller & Associates

201 S. Halagueno
Carlsbad, NM 88221

Office: (575) 689-7040

Valve Box 11 Workplan
August 17, 2014

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- APPENDIX D: MSDS FOR **Micro-Blaze® Emergency Liquid Spill Control**

Valve Box 11 Workplan
August 17, 2014

INTRODUCTION

At the request of Agave Energy Company, Souder, Miller & Associates (SMA) has prepared this Workplan to describe the planned approach for remediation of a natural gas and associated pipeline liquid release at the Valve Box #11 on July 30, 2014. The release occurred during a pipeline maintenance operation resulting in an unexpected loss of pressure. An unknown volume of sour natural gas and associated pipeline liquids was released. The release was reported July 30, 2014 via telephone to NMOCD District 2. The site is located in Section 5, Township 19 South, Range 25 East, Eddy County, New Mexico. Figure 1 illustrates the location of the release.

Further, this document addresses the regulatory framework for previous and proposed activities at the site, and provides a soil remediation and closure Workplan designed to achieve site closure. Site details, proposed sampling locations and the proposed remedial excavation area are presented in Figure 2. Appendices include the New Mexico Oil Conservation Division (NMOCD) Form C-141 (initial), the manifest for the transport and disposal of RCRA exempt liquids from the initial response to the NMOCD approved facility, Mitchell SWD 30-015-22242, and documentation from the New Mexico Office of the State Engineer (NMOSE) regarding the depth to water at the site.

REGULATORY FRAMEWORK AND SITE CLASSIFICATION

This project is conducted under the regulatory jurisdiction of the NMOCD 19.15.1.19 NMAC, Subsection B, Paragraphs 1 and 2. The NMOCD hydrocarbon soil remediation levels are determined through the ranking criteria on a site-by-site basis, as outlined in the NMOCD Guidelines for Remediation of Spills, Leaks, and Releases, dated August 13, 1993. The ranking criteria are based on three site characteristics: depth to groundwater, water wellhead protection, and distance to surface water.

No water wells are located within 1,000 feet of the valve station. The estimated depth to groundwater is greater than 100 feet below ground surface based on information from the NMOSE. No surface water bodies are located within 1,000 feet of the pipeline ROW. The table below applies the ranking criteria, used by the NMOCD, to site specific characteristics at the Valve Box #11 site.

Criteria: Site Characteristics Ranking Score

Depth to Ground Water >100 feet	= 0
Wellhead Protection Area >1000 feet	= 0
Distance to Surface Water >1,000 feet	= 0
Total Ranking Score	= 0

Based on evaluation of the site characteristics and the "Guidelines for Remediation of Spills, Leaks, and Releases", the site has a ranking score of 0. Accordingly, the ranking score establishes the Recommended Remediation Action Levels (RRALs) as: 10 milligrams per kilogram (mg/Kg) Benzene; 50 mg/Kg Benzene, Toluene, Ethyl-benzene, and total Xylenes (BTEX); and 5000 mg/Kg Total Petroleum Hydrocarbons (TPH) for remediation at the Valve Box #11 spill site.

Valve Box 11 Workplan
August 17, 2014

SOIL REMEDIATION WORKPLAN

The initial site assessment activities performed by SMA effectively established the site classification and the Recommended Remediation Action Levels in accordance with NMOCD regulatory guidance documents. To complete the initial pipeline maintenance project that preceded the release, the primary area of affected soils will be excavated with the spoil placed in a lined berm at the site after all notifications and safety concerns have been met. Samples will be taken from the spoil stockpile to determine if the affected soils meet the RRALs for closure or need to be hauled to an NMOCD permitted facility. Because of the close proximity to a lease access road and multiple pipeline Rights Of Way (ROWs), all excavation activities will be guided through field screening of the excavation using a Photoionization Detector (PID) and Volhards Method Chloride Ion Concentration by Titration.

The primary objectives of this Workplan are the mitigation of the affected soils at the site followed by written acceptance from the NMOCD regarding the implemented soil remediation Workplan activities. Upon completion of these work plan activities, SMA will request closure of the spill event on behalf of its client, Agave Energy Company.

Any additional affected soils excavated will be added to the soils in the lined berm adjacent to the excavation required for maintenance access. Heavy equipment will be utilized to excavate and turn the affected soils stockpiled in the lined berm. The stockpile will be turned periodically, and water and *Micro-Blaze® Emergency Liquid Spill Control* added at the recommended 3-6% rate to encourage Biodegradation and Volatilization of the hydrocarbons in the affected soils. To monitor the progress of the bioremediation and volatilization in the pile, soil samples will periodically be collected from the stockpile on a schedule based on the judgment of SMA Field personnel. The samples will be field screened utilizing a PID calibrated to a 100-ppm isobutylene standard. Each soil sample will be placed in a resealable plastic bag leaving a headspace for volatile organic compounds (VOCs) to collect. After sufficient time has passed to allow for volatilization, the headspace in each bagged sample will be measured using the PID. The results will be evaluated to determine whether the stockpile is ready for closure sampling or requires additional turning and treatment.

CONFIRMATION SAMPLING PLAN

Upon completion of the excavation as indicated by field screening, composite soil samples will be taken from the excavation walls and bottom. The sample containers will be properly labeled with source locations in the excavation documented and custody seals affixed to the containers. Sample containers will be placed on ice in an insulated cooler, and chilled to a temperature of approximately 40°F (4°C). The cooler will be sealed for shipment to the laboratory. The soil samples will be delivered to Hall Environmental Analysis Laboratory (HEAL), in Albuquerque, New Mexico for TPH (GRO/ DRO) analysis by EPA Method 8015 (modified), Chloride Ion Concentration EPA Method 300.1 and BTEX analyses by EPA Method\8021B. Proper chain-of-custody documentation will accompany the samples to the laboratory.

Once field screening of the soil stockpile indicates that the RRALs have been reached, the NMOCD District 2 Artesia office will be notified at least 48 hours in advance of planned confirmation sampling activities. Composite soil samples will be taken of the soil stockpile for laboratory confirmation of achievement of the RRALs. The composite sample locations will be based on the geometry of the turned spill pile. Sample containers will be properly labeled, custody seals affixed, placed on ice in an insulated cooler, and chilled to a temperature of approximately 40°F (4°C). The cooler will be sealed and delivered under chain of custody protocols to HEAL for TPH (GRO/ DRO) analysis by EPA Method 8015 (modified), Chloride Ion Concentration by EPA Method 300.1 and for BTEX analyses by EPA Method\8021B.

Valve Box 11 Workplan
August 17, 2014

SITE CLOSURE

After laboratory confirmation that the site-specific NMOCD cleanup levels of 10 mg/Kg Benzene, 50 mg/Kg total BTEX and 5000 mg/Kg TPH have been reached, the berm will be dismantled, liner removed, and the stockpile spread. Final grading will be performed to mitigate erosion and closure of the spill will be requested. The final data and closure request will be submitted to the NMOCD as a Form C-141 Release Notification and Corrective Action Final Report.

Valve Box 11 Workplan
August 17, 2014

FIGURES

FIGURE 1: SITE VICINITY MAP

FIGURE 2: DISTANCE TO SURFACE WATER

Valve Box 11 Workplan
August 17, 2014

APPENDICES

- APPENDIX A: INITIAL FORM C141 RELEASE NOTIFICATION AND CORRECTIVE ACTION
- APPENDIX B: WASTE MANIFEST RUN TICKET
- APPENDIX C: *New Mexico Office of the State Engineer Water Column/Average Depth to Water*
- APPENDIX D: MSDS FOR **Micro-Blaze® Emergency Liquid Spill Control**

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Agave Energy Company	Contact	Jennifer Knowlton
Address	105 South 4 th Street Artesia, NM	Telephone No.	575-748-4471
Facility Name	Valve Box #11	Facility Type	Gas Right Of Way

Surface Owner - Private	Mineral Owner	API No.
-------------------------	---------------	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	5	19S	25E					EDDY

Latitude 32.68509 Longitude 104.49963

NATURE OF RELEASE

Type of Release: Produced Water and Sour Gas	Volume of Release N/A	Volume Recovered N/A
Source of Release 6" PVC gas line	Date and Hour of Occurrence 7/30/14 0917	Date and Hour of Discovery 7/30/14 0917
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher	
By Whom? Jennifer Knowlton	Date and Hour 7/30/14 1135	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

NM OIL CONSERVATION

ARTESIA DISTRICT

AUG 22 2014

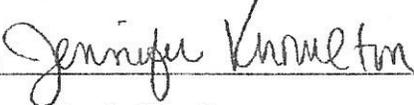
Describe Cause of Problem and Remedial Action Taken.*
During routine pipe maintenance, the pipe blew produced water, sour gas and oil out of the valve box.

RECEIVED

Describe Area Affected and Cleanup Action Taken.*
At this time, due to other restrictions, no cleanup action has been taken.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist:	
Printed Name: Jennifer Knowlton	Approval Date:	Expiration Date:
Title: Environmental Manager	Conditions of Approval:	
E-mail Address: jknowlton@yatespetroleum.com	Attached <input type="checkbox"/>	
Date: 8/5/2014 Phone: 575 748-4471		

* Attach Additional Sheets If Necessary



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)
(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
RA 05331	ED			1	1	4	05	19S	25E	546308	3616955*	460	305	155

Average Depth to Water: **305 feet**
Minimum Depth: **305 feet**
Maximum Depth: **305 feet**

Record Count: 1

PLSS Search:

Section(s): 5 Township: 19S Range: 25E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

U.S. Department of Labor

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY) **Micro-Blaze® Emergency Liquid Spill Control**

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's name	Verde Environmental, Inc.	Emergency Telephone Number	800 / 626-6598
Address	9223 Eastex Freeway	Telephone Number for Information	713 / 691-6468
	Houston, Texas 77093-7001	Date Prepared	01 / 01 / 13
		Signature of Preparer	<i>William L. Scogin</i>
		William L. Scogin, President	

Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS Number:	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
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**** NO HAZARDOUS COMPONENTS OR INGREDIENTS ****

Per OSHA -29 CFR 1910.1200 -- All ingredients are organic and completely biodegradable.

Components not listed are either proprietary, or non-hazardous.

Section III—Physical/Chemical Characteristics

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1.0
Vapor Pressure (mm Hg)	Equiv. water	Melting Point	N / A
Vapor Density (AIR = 1)	Equiv. water	Evaporation Rate (Butyl Acetate = 1)	N / A
Solubility in Water	99%		
Appearance and Odor	Cream to tan, opaque liquid, perfumed		

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used)	N / A	Flammable Limits	LEL	UEL
		Non-flammable	----	----
Extinguishing Media	Non-flammable			
Special Fire Fighting Procedures	None			
Unusual Fire and Explosion Hazards	None - NON-FLAMMABLE			

OSHA 174 Sept. 1985

Section V—Reactivity Data							
Stability	Unstable				Conditions to Avoid		
	Stable XXXX						
Incompatibility (Materials to Avoid) Strong acids or alkali compounds may inactivate biological cultures.							
Hazardous Decomposition or Byproducts							
Hazardous Polymerization	May Occur				Conditions to Avoid		
	Will Not Occur		XXXX				
Section VI—Health Hazard Data							
Route(s) of Entry		Inhalation?		Skin?		Ingestion?	
Health Hazards (Acute and Chronic) May cause diarrhea if ingested in large amounts. NON-TOXIC							
Organisms used are non-pathogenic. These organisms are susceptible to commonly used antibiotics.							
Carcinogenicity	N / A	NTP?	N / A	IARC Monographs?	N / A	OSHA Regulated?	N / A
Signs and Symptoms of Exposure Skin: slight redness on hands and forearms if individual has a history of dermal allergic reaction.							
Medical Conditions							
Generally Aggravated by Exposure Dermal allergic reaction on skin if susceptible person has continual exposure.							
Emergency and First Aid Procedures Ingestion: Drink water or milk to dilute. Induce vomiting only if advised by physician or poison control center.							
Section VII—Precautions for Safe Handling and Use							
Steps to Be Taken in Case Material Is Released or Spilled May mop up spills; may flush down sanitary drain into waste water treatment lines.							
Waste Disposal Method Disposal of this product or its residue must be done in accordance with all local, state and federal requirements.							
Precautions to Be Taken in Handling and Storing Avoid eye contact.							
Other Precautions To maintain shelf life, avoid temperatures under 32° F or over 120° F for long periods of time. Microbes are viable up to 180° F. KEEP FROM PROLONGED FREEZING.							
Section VII—Control Measures							
Respiratory Protection (Specify Type) Avoid breathing mists; mask advised if spraying in enclosed, unventilated spaces.							
Ventilation	Local Exhaust			Special			
	Mechanical (General)			Other Normal room ventilation.			
Protective Gloves Use if prolonged exposure or dermal sensitivity to surfactants.				Eye Protection Avoid splashing in eyes; may irritate.			
Other Protective Clothing or Equipment None required, rubber or latex recommended.							
Work/Hygienic Practices Minimize exposure in accordance with good hygiene practices.							

We believe the statements, technical information and recommendations herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

Valve Box #11 Closure Report
Agave Energy Company
Sec 5 T19S R25E, Eddy County, New Mexico
December 5, 2014 Revised February 13, 2015

Appendix B

Job Site JSA Meeting Forms



SAFETY SERVICES INC

Offices in Artesia * Hobbs * Odessa
 Phone 575-746-1096 or 432-552-7625
 or 877-879-8899
 Fax 432-363-0198
 email info@americansafety.net

WORKORDER *mugler*

CUSTOMER INFORMATION

Name ASMA
 Address _____
 City _____ State _____ ZIP _____
 Phone _____ Fax _____

DATE 9/25/14
Tell Montoya / Luis Ordonez
ASSI FIELD TECHNICIAN

COMPANY MAN <u>Austin Weyant</u>		LEASE NAME/LOCATION <u>CEN 7048 or Valve site 11</u>	AFE / ORDER NUMBER
Circle One	DRILLING	<u>PRODUCTION</u>	COMPLETION
START DATE: <u>8/27/14</u>		END DATE: <u>9/18/14</u>	

TRAILER <u>1</u> : # OF DAYS <u>10</u>	X DAILY RATE \$ <u>200</u>	\$ <u>2000.00</u>
COMPLIANCE PKG: # OF DAYS <u>12</u>	X DAILY RATE \$ <u>65</u>	\$ <u>780.00</u>
ADDITIONAL SAFETY EQUIPMENT: (DETAIL BELOW) <u>Quad gas @ \$75/day X 21 =</u>		\$ <u>1575.00</u>
SUPERVISION: # OF DAYS/HOURS <u>190.5</u>	X DAILY RATE \$ <u>75/hr</u>	\$ <u>14,287.50</u>
MILEAGE: # OF TRIPS <u>20</u> # OF MILES <u>40</u>	RATE/MILE <u>\$2.25</u>	\$ <u>1,800.00</u>
TRAINING: H2S _____ OTHER _____	OTHER _____	\$ _____
MISCELLANEOUS: <u>Bump test @ \$50 each X 3 X \$1500</u>	RIG UP / DOWN <u>600</u>	\$ <u>6,150.00</u>
<u>Generator 11 days @ \$150/day = \$1,650.00, Clamps & Lumber @ \$200.00, Signs for jobsite @ \$600.00, Boots & Hard hats @ \$150.00, Tube puller 2 days @ \$75/day + 6 tubes @ \$10 ea = \$200.00, Cool down trailer 10 days @ \$150/day = \$1,500.00, 4 bottles of air used @ \$25 each = \$100.00, 1 SCBA's used at \$5 ea = \$50.00, fan and generator 1st day \$300.00, Trash trailer and Porta potties 8 days @ \$75/day = \$600.00</u>		

Tickets for Supervision (safety) and required equipment to complete Valve site 11 Remediation efficiently and as safely as possible.

QUANTITY	RENTALS	COST EACH	TOTAL \$	QUANTITY	SERVICE & REPAIRS	COST EA	TOTAL \$
	30 MIN RESCUE UNIT				RIG MONITOR CALIBRATION		
	5 MIN ESCAPE PACK				PERSONAL MONITOR CALIB		
	AIR LINE WORK UNIT				LABOR		
	AIR HOSE				FIRE EXTINGUISHER SERVICE (*Note FE Size)		
	CASCADE SYSTEM				HYDROTEST		
	MONITOR, CHANNELS				ANNUAL INSPECTION		
	PERSONAL MONITOR				MONTHLY INSPECTION		
	CONDITION SIGN				REFILL		
	WINDSOCKS				BREATHING EQUIPMENT		
	BRIEFING AREAS				CLEAN & INSPECT		
	FANS				REFILLS <input type="checkbox"/> 45 CF <input type="checkbox"/> 7 CF		
	GENERATOR				REFILLS <input type="checkbox"/> 300 CF		
	QUAD GAS MONITOR				REPAIRS		

AMERICAN SALES REP <u>Tell Montoya Dustin Higgins</u>		Approver	Office Loc	Artesia	Odessa	
ADDITIONAL INFORMATION		County for Sales Tax		Other		
CUSTOMER REPRESENTATIVE (SIGNATURE)		TOTAL FROM TICKET	\$ <u>26,592.50</u>			
CUSTOMER REPRESENTATIVE (PRINT)		FUEL SURCHARGE	\$			
		SALES TAX	\$			
		GRAND TOTAL	\$			

THE PURCHASER IS BOUND BY THE WARRANTY AND OTHER TERMS AND CONDITIONS SET OUT IN FULL ON THE REVERSE SIDE
 White - ORIGINAL Yellow - CUSTOMER Pink - FILE Gold - FIELD



AMERICAN SAFETY SERVICES INC
422 N Main Street
Artesia, New Mexico 88210

Rescue Plan/Contingency Plan

Location: Agave Energy sites associated with valve site 11
Thursday, 9/15/14 – Friday, 9/26/14

Date:

GPS Coordinates: Latitude/Longitude (32.68509,-104.49963)

Job: Finalize the investigation and removal of evidence. Remove contaminated materials from the work area. Resume capping of the gas line. Once complete the work area will be back filled with clean dirt/caliche and the job will be complete.

Directions to Location: From Artesia General Hospital head west on W Memorial Drive .1 miles then turn south on 10 St. drive .5 miles then turn left on US- 82/ W Main St. and continue heading east and then right onto 1st street (HWY 285) go approximately 10 miles and turn right onto Kincaid Ranch road and go 2.9 miles and then turn left at the Y, stay left until the first cattle guard at 1.1 miles continue 1.2 miles to the second cattle guard continue straight 1.3 miles to Y and turn left to a locked gate at cattle guard. Combination is 6061. From cattle guard go 25' and turn right go 1 mile and turn left and follow road .3 miles to location.

THE FOLLOWING NUMBERS FOR EMERGENCIES ONLY

Artesia

ARTESIA EMERGENCY RELIEF		575.746.9475
ARTESIA POLICE DEPARTMENT	911 OR	575.746.5000
NM STATE POLICE		575.887.3128
FIRE AND AMBULANCE		575.748.0260
ARTESIA GENERAL HOSPITAL		575.748.3333
POISON CONTROL		800.222.1222

AMERICAN SAFETY SERVICES EMERGENCY NUMBERS

COLY HOKETT (MANAGER)	575.746.7350
DUSTIN HIGGINS (SAFETY MANAGER)	575.513.5033
KEVIN HOKETT (PRESIDENT)	432.208.4372
Tell Montoya (on site Safety Technician)	575.749.0009

AGAVE PERSONNEL

Ruben Molina (Agave Safety Engineer)	575.513.9448
Austin Weyant (Contractor in charge of job from Souder Miller)	575.689.7040
Jason Fuentes (Agave Pipeline Supervisor)	575.365.8939
Robert Moorhead (Agave Mechanic Supervisor)	575.365.4840
<u>Agave Energy Company Emergency Phone Number</u>	575.748.4555
TONY TOVAR (RIG SAFETY SUPERVISOR)	575.513.0538
Cheryl and Allen Howell (Rancher of the work area)	575.703.6154

Hazards of Location: Possibility of Radiation, Benzene, H2S, LEL and other hazardous gases. Other possible hazards entanglement, slips, trips and falls, burns, eye hazards, cuts and abrasions, heavy machinery operation in close proximity to personnel, and lifting hazards as well as a possibility of trapped pressure in tubing. There will be multiple contractors and personnel working in conjunction on location as well as vehicles and heavy equipment moving in and out.



PPE for Job: PPE required at ALL times (hard hat, safety glasses, personal monitor, steel toe boots, FRC's). An Air/Rescue trailer will be on site contents include rescue packs, fire extinguishers, first aid kit, harnesses and lifelines. Air Trailer can be released once all cuts to lines are completed as all h2s hazards have been eliminated. If an air trailer is needed, work can be stopped until one can be provided. Personal Monitors will be worn at all times. There will be 2 safety fans on location to provide additional air flow in exposure area. A cool down trailer will be on location for anyone needing it. American Safety will also provide a mobile H2S detection system consisting of a monitor box, 4 sensors, and an audio visual alarm unit. Site equipment subject to change as Ruben Molina, Austin Weyant, and ASSI Representative see fit.

Pre-Plan: A safety technician will check and monitor the work area for hazardous gases as well as other dangers posed to life and health. Fill out and go over hazards in the safety meeting and go over JSA. Work site will be evaluated for new hazards daily by Safety Tech, SMA contractor, and an agave energy representative.

Accident Plan: I, _____ ASSI Employee Name _____, will assess injuries and make emergency call if life threatening situation occurs. Will verify that everyone has been fit tested that is required to be and have required certifications specific to job specifications and duties.



INVOICE

PO BOX 12874
 8715 ANDREWS HWY
 ODESSA TX 79768-2874
 PHONE (432) 552-7625
 Tax ID # 85-0476604

Date 9/18/2014
Invoice # 99195819

Terms Net 30
Due Date 10/18/2014
Customer Rep AUSTIN WEYANT
Division PRODUCTION
Lease/Well Name VALVE SITE 11
Start Date 8/27/2014
End Date 9/18/2014
PO #
Memo
Sales Rep HIGGINS, DUSTIN E
Technician MONTOYA, JUSTIN T
Location ART

Bill To
 ACCOUNTS PAYABLE
 SOUDER MILLER & ASSOCIATES
 201 S HALAGUENO ST
 Carlsbad NM 88220
 United States

Ship To

Date	WO#	Item	Qty	Description	Inventory D...	Rate	Amount	Tax
9/18/2014	95124	H2S TRLR	10	H2S SAFETY TRAILER RENTAL		200.00	2,000.00	Yes
		CPL PKG	12	SAFETY COMPLIANCE PACKAGE		65.00	780.00	Yes
		SUPR	190.5	SUPERVISION		75.00	14,287.50	Yes
		QD GAS	21	QUAD GAS MONITOR RENTAL		75.00	1,575.00	Yes
		MIL	800	MILEAGE		2.25	1,800.00	Yes
		MTR CAL	3	MONITOR CALIBRATION		50.00	150.00	Yes
		GEN	12	GENERATOR RENTAL		150.00	1,800.00	Yes
		COOL	10	COOL DOWN TRAILER RENTAL		150.00	1,500.00	Yes
		BTL	4	REFILL 300 CU FT BREATHING AIR BOTTLES		25.00	100.00	Yes
		A PK	4	AIR PACK RENTAL		25.00	100.00	Yes
		FAN	1	H2S DISPERSION FANS		150.00	150.00	Yes
		TRSH	8	TRASH TRAILER RENTAL		50.00	400.00	Yes
		TOILET	8	PORTABLE TOILET RENTAL		25.00	200.00	Yes
		SPLY	1	BOOTS & HARD HATS		150.00	150.00	Yes
		RENTALS	2	TUBE PULLER		75.00	150.00	Yes
		SPLY	5	GAS DETECTION TUBES		10.00	50.00	Yes
		SPLY	1	CLAMPS & LUMBER		200.00	200.00	Yes
		SPLY	1	SIGNS FOR JOBSITE		600.00	600.00	Yes
		RIG UP/DN	1	EQUIPMENT DELIVERY & SETUP FEE		600.00	600.00	Yes

"Dear brothers and sisters, when troubles of any kind come your way, consider it an opportunity for great joy." James 1:2

Subtotal 26,592.50
Tax (NM_EDDY CO_ 5.75%) 1,529.07
Total 28,121.57
Amount Due \$28,121.57

REMIT TO:
 PO BOX 14367
 ODESSA, TX 79768



JOB SAFETY ANALYSIS (JSA) & Job Safety Checklist

WARD # _____ DATE: 8/27/2014 S M T W T F S
 Customer Name / Number: Alvarez Energy
 Job Type / Work Ticket #: 20004121000 (MADRID)
 I have personally inspected the worksite & confirm that it is safe for the work described & the site is clean & fire hazards have been identified and controlled.
 Authorized Individual Signature: [Signature] Date/Time: 8/27/14, 8:00am

UNIT/ASSET # Alvarez Pipeline Repair site Well #: _____
 GPS Coordinates of Location: _____
 Contact: DL
 Meeting Place in Case of Emergency: Attest General Hospital
 Date/Time: 8/27/14, 8:00am

Job Safety Checklist		HAZARDS OR POTENTIAL ACCIDENT		HAND OR FINGER INJURY HAZARDS		RECOMMENDATIONS TO ELIM	
Lifting	Hazards	Y	N	Y	N	Y	N
Manual Lifting (Body Position)	Proper Tool / Material Placement						
Mechanical Lifting Equipment	Hot / Cold Surface or Material						
Awkward Body Position	Inadequate Lighting						
Slipping Potential	Fall Protection / Anchor Points						
Lifting With Other Employees	Pinch Points						
Proper Rigging Practices	Trenching / Evacuation						
Access / Exit	Hand & Finger Hazards						
Handrails Placement	Welding/Flame Cutting						
Ladders / Stair Rails Placement	Road Gear & Derrick Locked & Tagged						
Barricades Placed							
Evacuation Routes Identified							
WORK SEQUENCE (JOB STEPS)							
Tailgate Safety Meeting		H2S, Odors, Other Toxic Gases		Cuts, bites, nicks, scrapes, bruises		Monitor Atmospheric Conditions	
Rehabilitation discussion w/ all contractors		Slips, Trips, & Falls		Pinch points, burns, smashes, abrasions		PPE at all times. Use common sense when moving around the site. Be an active member of the team. Others. Pay attention to 10 mile rule. Be aware of job site limit your exposure	
Sample & Evidence collections		Implement Weather conditions and changing weather conditions.		Cold surfaces, and sharp objects.		Clear route to upwind breathing responsibility, and obligation to	
Post-shoot area building		Potential for uncontrolled energy release					
Perimeter Fence							
JSA Participants		Visitors After JSA was Written					
Name / Signature / Company		Name / Signature / Company					
Tell Montoya / American Safety Services		Ricky Blum / AST					
Cecilia Holm / JPC		Luis Gonzalez / ASF					
Kenn Sosa / JPC		Damar Soto / JPC					
Jenny Lynn / JPC		Eliana Gonzalez / JPC					
Jennifer Knouf / Agile Energy							
Rafael Alcala / Agile Energy Company							
Rafael Alcala / Agile Energy Company							
Miguel Fuentes / TCS							
Eliana Gonzalez / TCS							
Written By: Tell Montoya							
Safety Equipm Rec							
Hard Hat							
Fire Extinguisher							
Face Shield / Goggles							
H2S / Tr-Monitors							
Proper Clothing							
Safety Glasses							
Hot Work Permit Required							
Ground Cable							
REVIEWED FOR COMPLETENESS AND CONFIRMATION JSA IS FOLLO							
SUPERVISOR NAME & DATE: Tell Montoya							



JOB SAFETY ANALYSIS (JSA) & Job Safety Checklist

YARD # _____ DATE: 9/21/14 S M W T F S
 Customer Name / Number: Agave Energy
 Job Type / Work Ticket #: Job Order # 11
 I have personally inspected the worksite & confirm that it is safe for the work described & the site is clean & fire hazards have been identified and controlled.
 Authorized Individual Signature: _____ Date/Time: 9/21/14 1:30pm

UNIT/ASSET #: Tahoe DE H1 Well #: #1
 GPS Coordinates of Location: _____
 Contact: APSI
 Meeting Place in Case of Emergency: APSI's General Hospital
 Date/Time: 9/21/14 1:30pm

Job Safety Checklist

Lifting	Job Safety Checklist		Body Position / Movement		Environmental
	Y	N	Y	N	
Manual Lifting (Body Position)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mechanical Lifting Equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mechanical Lifting Equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Awkward Body Position	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Slip/Trip Potential	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lifting With Other Employees	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper Rigging Practices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Access / Exit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Handrails Placement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ladders / Stair Rails Placement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Barricades Placed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Evacuation Routes Identified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

WORK SEQUENCE (JOB STEPS)	HAZARDS OR POTENTIAL ACCIDENT	HAND OR FINGER INJURY HAZARDS	RECOMMENDATIONS TO ELIMINATE
<u>EXCAVATE JOHNSONS</u>	<u>H2S, Vols, & Other Toxic gases</u>	<u>Cuts, bites, nicks, skin scrapes</u>	<u>Continuously monitor for H2S.</u>
<u>Rig up dewater</u>	<u>Slips, Trips, & Falls</u>	<u>Contusions, breaks, fractures and</u>	<u>Others, pay attention to newscast</u>
	<u>Open holes & men working together</u>	<u>Hot/cold surfaces, pinch-points and</u>	<u>to hazards. Watch out for</u>
		<u>burns</u>	<u>Open holes, and make sure</u>
			<u>When move to a hole, an</u>
			<u>PPF at all times. Vets have</u>
			<u>Have good situational aw</u>
			<u>Eliminate incidents, accidents</u>
			<u>Everyone has the right obligation</u>
			<u>work authority.</u>

JSA Participants	Visitors After JSA was Written
Name / Signature / Company	Name / Signature / Company
<u>Tell Mendoza / American Safety Services</u>	<u>Jose O. Torres</u>
<u>ARON MONTANA / American Safety Services</u>	<u>ARON MONTANA / American Safety Services</u>
<u>RAMON MONTANA / American Safety Services</u>	<u>RAMON MONTANA / American Safety Services</u>
<u>OSCAR SOBEL RODRIGUEZ R. ONO'S</u>	<u>OSCAR SOBEL RODRIGUEZ R. ONO'S</u>
<u>OSCAR RODRIGUEZ R. ONO'S</u>	<u>OSCAR RODRIGUEZ R. ONO'S</u>
<u>OSCAR RODRIGUEZ R. ONO'S</u>	<u>OSCAR RODRIGUEZ R. ONO'S</u>
<u>OSCAR RODRIGUEZ R. ONO'S</u>	<u>OSCAR RODRIGUEZ R. ONO'S</u>
<u>OSCAR RODRIGUEZ R. ONO'S</u>	<u>OSCAR RODRIGUEZ R. ONO'S</u>
<u>OSCAR RODRIGUEZ R. ONO'S</u>	<u>OSCAR RODRIGUEZ R. ONO'S</u>

Safety Equipm	Required
Hard Hat	<input checked="" type="checkbox"/>
Fire Extinguisher	<input checked="" type="checkbox"/>
Face Shield / Goggles	<input checked="" type="checkbox"/>
H2S / Tri-Monitors	<input checked="" type="checkbox"/>
Proper Clothing	<input checked="" type="checkbox"/>
Safety Glasses	<input checked="" type="checkbox"/>
Hot Work Permit Required	<input checked="" type="checkbox"/>
Ground Cable	<input checked="" type="checkbox"/>



JOB SAFETY ANALYSIS (JSA) & Job Safety Checklist

WARD # _____ DATE: 9/11/14
 S M T W T F S
 Customer Name / Number Alamosa
 Job Type / Work Ticket # 91114
 I have personally inspected the worksite & equipment that it is safe for the work described & the site is clean & free hazards have been identified and controlled.
 Authorized Individual Signature [Signature]

UNIT/ASSET # 910
 GPS Coordinates of Location _____
 Contact 411
 Meeting Place in Case of Emergency: Alamosa General Hospital
 Date/Time: 9/11/14 9:00am
 Well #: _____

Job Safety Checklist

Lifting	Hazards		Body Position / Movement		Environmental	
	Y	N	Y	N	Y	N
Manual Lifting (Body Position)						
Mechanical Lifting Equipment						
Awkward Body Position						
Slipping Potential						
Lifting With Other Employees						
Proper Rigging Practices						
Access / Exit						
Handrails Placement						
Ladders / Stair Rails Placement						
Barricades Placed						
Evacuation Routes Identified						

WORK SEQUENCE (JOB STEPS)	HAZARDS OR POTENTIAL ACCIDENT	HAND OR FINGER INJURY HAZARDS	RECOMMENDATIONS TO ELIMINATE
<u>Pinch line</u>	<u>H2S, hot, & roller hazards</u>	<u>Cuts, bites, nicks, scrapes,</u>	<u>Constantly monitor for</u>
<u>colline install valves</u>	<u>Slips, Trips, & falls</u>	<u>Pinch points, smashes, breaks</u>	<u>hazard terrain to main</u>
	<u>energy release</u>	<u>burns, and fractures</u>	<u>Use common sense to help</u>
	<u>Heat/ Stress and dehydration</u>		<u>watch hand placement</u>
	<u>Vermin</u>		<u>Drink plenty of water</u>
			<u>Water out for snakes</u>
			<u>Wear required PPE at</u>
			<u>Everyone has STOP W</u>
			<u>your light, obligation, in</u>

JSA Participants

Visitors After JSA was Written

Name / Signature / Company	Name / Signature / Company	Safety Equipm. Req.
<u>Paul S. Miller</u>	<u>Paul S. Miller</u>	<u>Hard Hat</u>
<u>Daniel Guillen</u>	<u>Paul S. Miller</u>	<u>Fire Extinguisher</u>
<u>Jose Trevizo</u>	<u>Paul S. Miller</u>	<u>Face Shield / Goggles</u>
<u>Chavez Cervillo</u>	<u>Paul S. Miller</u>	<u>H2S / Tri-Monitors</u>
<u>Adriana Rodriguez</u>	<u>Paul S. Miller</u>	<u>Proper Clothing</u>
<u>Hector Lopez</u>	<u>Paul S. Miller</u>	<u>Safety Glasses</u>
<u>MARID MARTINEZ</u>	<u>Paul S. Miller</u>	<u>Hot Work Permit Required</u>
		<u>Ground Cable</u>

Written By: Tell Montoya

REVIEWED FOR COMPLETENESS AND CONFIRMATION JSA IS FOLLO...
 SUPERVISOR NAME & DATE: Tell Montoya 9/11/14



JOB SAFETY ANALYSIS (JSA) & Job Safety Checklist

Customer Name / Number: Wanda's Event Company & Event Services
 Job Type / Work Order #: 9110114
 I have personally inspected the worksite & confirm that it is safe for the work described & the site is clean & fire hazards have been identified and controlled.
 Authorized Individual Signature: [Signature]

DATE: 9/10/14
 S M T W T F S
 UNIT/ASSET #: Valve Station
 GPS Coordinates of Location: _____
 Contact: 911
 Meeting Place in Case of Emergency: Artesia Station
 Identified and controlled.
 Date/Time: 9/10/14, 9:30am

Job Safety Checklist

Job Safety Checklist	Y	N	Hazards	Y	N	Body Position / Movement	Y	N	Environmental	Y	N
Manual Lifting (Body Position)			Proper Tool / Material Placement			Climbing			Pollution (Personal Exposure)		
Mechanical Lifting Equipment			Hot / Cold Surface or Material			Pulling, Pushing			Leaks or Spills Prevented / Controlled		
Awkward Body Position			Inadequate Lighting			Bending			Sewers or Drains Covered & Sealed		
Slipping Potential			Fall Protection / Anchor Points			Twisting Motion					
Lifting With Other Employees			Pinch Points			Walking					
Proper Rigging Practices			Trenching / Excavation			Crawling					
Access / Exit			Hand & Finger Hazards			Straining					
Handrails Placement			Welding/Flame Cutting			Stretching					
Ladders / Stair Rails Placement			Road Gear & Derrick Locked & Tagged			Reaching					
Barricades Placed						Over Extending					
Evacuation Routes Identified											

WORK SEQUENCE (JOB STEPS)

HAZARDS OR POTENTIAL ACCIDENT

HAND OR FINGER INJURY HAZARDS

RECOMMENDATIONS TO ELIMINATE

Build manholes
 Hazards: H2S, Lead, Boiler gases
 Slips, trips & falls
 Heat stress & dehydration
 Miscommunication
 Cuts, bites, nicks, stings, pinches
 Burns, slices, fractures, bruises
 Abrasions, contusions, and Bruises
 Points
 Watch out for your self & others
 Watch footing and maintain
 Take breaks, drink water, eat & d
 Understands job procedure. Watch
 Insects. Watch head placement
 Use common sense and good
 Authority! Remember it's y
 Everyone! has the right and n

JSA Participants

Visitors After JSA was Written

Safety Equipment

Name / Signature / Company	Y	N	Name / Signature / Company	Y	N	Safety Equipment	Y	N
<u>[Signature]</u>						Hard Hat		
<u>[Signature]</u>						Fire Extinguisher		
<u>[Signature]</u>						Face Shield / Goggles		
<u>[Signature]</u>						H2S / Tri-Monitors		
<u>[Signature]</u>						Proper Clothing		
<u>[Signature]</u>						Safety Glasses		
<u>[Signature]</u>						Hot Work Permit Required		
<u>[Signature]</u>						Ground Cable		



JOB SAFETY ANALYSIS (JSA) & Job Safety Checklist

YARD # _____ DATE: 9/11/14
 Customer Name / Number: Active Energy Inc
 Job Type / Work Ticket # 9000000000
 I have personally inspected the worksite & confirm that it is safe for the work described & the site is clean & free hazards have been identified and controlled.
 Authorized Individual Signature: _____

UNIT/ASSET # Value Site 1
 GPS Coordinates of Location: _____
 Contact: 911
 Meeting Place in Case of Emergency: Active Energy
 Date/Time: 9/11/14 8:00am

Job Safety Checklist

Lifting	Job Safety Checklist		Hazards	Body Position / Movement		Environmental	RECOMMENDATIONS TO ELIMINATE	
	Y	N		Y	N		Y	N
Manual Lifting (Body Position)			Proper Tool / Material Placement		Climbing	Pollution (Personal Exposure)		
Mechanical Lifting Equipment			Hot / Cold Surface or Material		Pulling / Pushing	Leaks or Spills Prevented / Controlled		
Awkward Body Position			Inadequate Lighting		Bending	Sewers or Drains Covered & Sealed		
Slipping Potential			Fall Protection / Anchor Points		Twisting Motion			
Lifting With Other Employees			Pinch Points		Walking			
Proper Rigging Practices			Trenching / Evacuation		Crawling			
Access / Exit			Hand & Finger Hazards		Straining			
Handrails Placement			Welding/Flame Cutting		Stretching			
Ladders / Stair Rails Placement			Road Gear & Derrick Locked & Tagged		Reaching			
Barriers Placed					Over Extending			
Evacuation Routes Identified								

WORK SEQUENCE (JOB STEPS)

Splice into water line

HAZARDS OR POTENTIAL ACCIDENT

High, led, both horizontal & vertical

Slips, trips, & falls

Missed roof communication

Changing end of equipment weather

Verbal communication breakdown

Potential for high concentration, large volume gas release

HAND OR FINGER INJURY HAZARDS

Cuts, bites, nicks, scrapes, pinches, burns, breaks, bruises

Fractures, joint strains, and other

Cold surfaces

RECOMMENDATIONS TO ELIMINATE

Continuously monitor for H2S, Water

Know where your stepping. Use judgement and good communication

accidents, injuries, and potential

and pay attention to weather

to position yourself upwind

So as to eliminate exposure

Everyone has "STOP WORK" and obligation to self.

JSA Participants		Visitors After JSA was Written		Safety Equip. Req.	
Name / Signature / Company		Name / Signature / Company			Req.
Tell Mendoza / Amplicare Safety Services Inc		Alex Pineda / Amplicare Safety Services Inc		Hard Hat	
Luis Ordoñez / ASST		Alex Pineda / Amplicare Safety Services Inc		Fire Extinguisher	
Oscar Joel Rodriguez R Oros		David Carriacel / Amplicare Safety Services Inc		Face Shield / Goggles	
Robert J Rodriguez Oros		David Carriacel / Amplicare Safety Services Inc		H2S / Tri-Monitors	
Esteban Chavez Oros		David Carriacel / Amplicare Safety Services Inc		Proper Clothing	
Alexander Sanchez / Amplicare Safety Services Inc		David Carriacel / Amplicare Safety Services Inc		Safety Glasses	
Written By: Tell Mendoza		David Carriacel / Amplicare Safety Services Inc		Hot Work Permit Required	
		David Carriacel / Amplicare Safety Services Inc		Ground Cable	



JOB SAFETY ANALYSIS (JSA) & Job Safety Checklist

YARD # _____ DATE: 9-17-14
 Customer Name / Number: AGAVE
 Job Type / Work Ticket # _____ S M T W T F S
 Authorized Individual Signature: [Signature]

UNIT/ASSET # Valve Site 11
 GPS Coordinates of Location _____
 Contact: 911
 Meeting Place in Case of Emergency: ARRISIA General
 Date/Time: 9-17-14 11:00 AM

Job Safety Checklist

Job Safety Checklist	Y	N	HAZARDS	Y	N	Body Position / Movement	Y	N	Environmental	Y	N	Hot
Lifting												
Manual Lifting (Body Position)			Proper Tool / Material Placement			Climbing			Pollution (Personal Exposure)			
Mechanical Lifting Equipment			Hot / Cold Surface or Material			Pulling, Pushing			Leaks or Spills Prevented / Controlled			
Awkward Body Position			Inadequate Lighting			Bending			Sewers or Drains Covered & Sealed			
Slip/Trip Potential			Fall Protection / Anchor Points			Twisting Motion						
Lifting With Other Employees			Pinch Points			Walking						
Proper Rigging Practices			Trenching / Evacuation			Crawling						
Access / Exit			Hand & Finger Hazards			Straining						
Handrails Placement			Welding/Flame Cutting			Stretching						
Ladders / Stair Rails Placement			Road Gear & Derrick Locked & Tagged			Reaching						
Barriers Placed						Over Extending						
Evacuation Routes Identified												

WORK SEQUENCE (JOB STEPS)

HAZARDS OR POTENTIAL ACCIDENT

HAND OR FINGER INJURY HAZARDS

RECOMMENDATIONS TO ELIMINATE

<p>cutting gas line and installing valves</p>	<p>High Vol and other toxic gases Poor Communication Welding Slick terrain</p>	<p>Smashes breaks fractures punctures cuts bites pinch points Hot/cold surfaces</p>	<p>Continuously monitor H2S levels wear proper PPE at all times Change wind direction to If is you right responsibility use "S top above Authority" and working conditions</p>
<p>Slips trips and falls</p>			

JSA Participants

Visitors After JSA was Written

Safety Equipment

Name / Signature / Company	OSCAR JOEL RODRIGUEZ R. ONOS	ESTEBAN CHAVEZ	ROBERTO RODRIGUEZ	ALEX SANDOVAL	Hand Hat	Fire Extinguisher	Face Shield / Goggles	H2S / Tr-Monitors	Proper Clothing	Safety Glasses	Hot Work Permit Required	Ground Cable
<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>								

Written By: Luis Ordover

REVIEWED FOR COMPLETENESS AND CONFIRMATION JSA IS FOLLOWING SUPERVISOR NAME & DATE: Luis Ordover



JOB SAFETY ANALYSIS (JSA) & Job Safety Checklist

Customer Name / Number: AGAVE
 Job Type / Work Ticket #: AGAVE
 Authorized Individual Signature: [Signature]
 DATE: 9-18-14
 S M T W T F S

UNIT/ASSET # Valve Site 11
 GPS Coordinates of Location: 1
 Contact: 911
 Meeting Place in Case of Emergency: ARTESIA GENERAL
 Date/Time: 9-18-14 8 am

Job Safety Checklist

Job Safety Checklist	Y	N	HAZARDS	Y	N	Body Position / Movement	Y	N	Environmental	Y	N	Hot
Lifting												
Manual Lifting (Body Position)			Proper Tool / Material Placement			Climbing			Pollution (Respiratory Exposure)			Flam
Mechanical Lifting Equipment			Hot / Cold Surface or Material			Pulling, Pushing			Leaks or Spills Prevented / Controlled			Slags or Spills Prevented / Controlled
Awkward Body Position			Inadequate Lighting			Bending			Sewers or Drains Covered & Sealed			Weld
Slip/Trip Potential			Fall Protection / Anchor Points			Twisting Motion						Fire
Lifting With Other Employees			Pinch Points			Walking						Proc
Proper Rigging Practices			Trenching / Excavation			Crawling						Alt
Access / Exit			Hand & Finger Hazards			Stretching						Saw
Handrails Placement			Welding/Flame Cutting			Reaching						
Ladders / Stair Rails Placement			Road Gear & Derrick Locked & Tagged			Over Extending						
Barricades Placed												
Evacuation Routes Identified												

WORK SEQUENCE (JOB STEPS)

HAZARDS OR POTENTIAL ACCIDENT

HAND OR FINGER INJURY HAZARDS

RECOMMENDATIONS TO ELIMINATE

Remove valve box/maintenance
 HAZARDS OR POTENTIAL ACCIDENT: H2S, hot and other toxic gases
 HAND OR FINGER INJURY HAZARDS: cuts bites nicks scrapes
 RECOMMENDATIONS TO ELIMINATE: Continuously monitor H2S levels ground is very uneven and eliminate any possible accident at all times while on location
 H2S for wind direction is present
 It is your right, responsibility USE "Stop Work Authority" if working conditions

JSA Participants	Visitors After JSA was Written	Safety Equipment
Name / Signature / Company TELL M... JSA Participants	Name / Signature / Company ALEXANDER SANDOVAL... Visitors After JSA was Written	Hard Hat Fire Extinguisher Face Shield / Goggles H2S / Tr-Monitors Proper Clothing Safety Glasses Hot Work Permit Required Ground Cable

Written By: [Signature]
 JSA Participants: [List of names and signatures]
 Visitors After JSA was Written: [List of names and signatures]
 Safety Equipment: [List of equipment]
 SUPERVISOR NAME & DATE: [Signature]

Valve Box #11 Closure Report
Agave Energy Company
Sec 5 T19S R25E, Eddy County, New Mexico
December 5, 2014 Revised February 13, 2015

Appendix C

Field Notes and Photos



Field Notes 8-27/8-29

Agave Energy Company

Austin Weyant SMA

1. August 27

- a. 7:30-am Arrive at Agave Energy Field Office (CR39) check in, update and review weekly notes with Kerry. Met with Jennifer Knowlton, Gled Holdman, Rubin Molina and Mike Foley.
- b. 9:00-am JSA held by ASI. TCS crew starts erecting location fence and stage equipment. Baseline samples collected and custody sealed, samples also taken at the base of both tin horns on location and sealed under supervision of Mike Foley.
- c. Samples #3 and #4 taken and sent to Hall Environmental Analytical Laboratory in ABQ.



Attached pics left to right: Sample #3 location, JSA on location, Sample #4 location, site from sample 4 location, confirming lock-out Tag-out

2. August 28

- a. Pulled 210 Tank on location and hauled off. Finished fence around location.





Field Notes 9-2/9-5

Agave Energy Company

Austin Weyant SMA

1. September 2
 - a. 7:30-am Arrive at Agave Energy Field Office (CR39) check in. Ready to start work at the Johnson BE Battery to add needed shut-in valves and Isolate six inch PVC south of valve Box 11 to insure safety. Lock-out Tag-out confirmed



- b. 8:00-am JSA held by ASI. Air trailer and Cool down trailer on site. Crew shaved and ready all H2S cards checked. Site H2S monitors set.



- c. 9:50-am Excavation of the 6" PVC lines north of the Johnson BE battery begins. Excavation Sloped to 30% and sampled for hazardous atmosphere. Cut made and valve installed under air.





1. September 3

- a. 7:30-am Arrive at Agave Energy Field Office (CR39) check in. Installing blow-down on the Polo 12" Poly. And install blind on 6" PVC south of the Valve Box 11.
- b. 8:00-am JSA held by ASI. Air trailer and Cool down trailer on site. Crew shaved and ready all H2S cards checked. Site H2S monitors set.



- c. 9:00-am all safety equipment set up. Added bathrooms and trash trailer to meet OSHA requirements.



- d. 1:30-pm Met with Agave Pipeline and tested blow-down



1. September 4

- a. 7:30-am Arrive at Agave Energy Field Office (CR39) check in.
- b. 8:00-am JSA held by ASI. Air trailer and Cool down trailer on site. Crew shaved and ready all H2S cards checked. Site H2S monitors set.
- c. Tin Horns Pulled and area excavated to 30%



- d. 11:00-am work stopped by Agave Management



Field Notes 9-9/9-13

Agave Energy Company

Austin Weyant SMA

1. September 10
 - a. 7:30am Start Hydro excavation on six inch ROW for YPC water line tie-in and above ground valve setting install. Watson crew is finishing excavation on six inch Matlock line for above ground valve install.



2. September 11
 - a. Build waterline above ground valve station and established vac-truck unloading at Johnson BE



- b. Second vac-truck unloading "lined" for contaminated soils built.





3. September 12

- a. Pinch installed @ Pollo Battery and @ Nicholas. Given permission to cut and remove 12" Poly tie-in and install blind flange. Water system also down ready for valve station install and Valve Box #11 by pass. All cuts made under air and supervision of ASI.





Field Notes 9-30/10-30

Agave Energy Company

Austin Weyant SMA

1. September 30
 - a. 8:30am Start sample collection on location for closure



2. October 21
 - a. Start at 7:30am removed location trash and debris for disposal.





3. October 23

b. Start at 8:30am tie-in of the Nickola's Battery to the above ground valve station at VB#11.

Supervised by Agave Energy Company construction supervisor.



4. October 24

c. Start 8:00am topsoil delivered and back-fill started.



Valve Box #11 Closure Report
Agave Energy Company
Sec 5 T19S R25E, Eddy County, New Mexico
December 5, 2014 Revised February 13, 2015

Appendix D

Hall Environmental Analysis Laboratory Reports

Chain-of-Custody Record

Client: AGAVE / SMA

Mailing Address: 201 S. WASHINGTON

Phone #: LAUSBAD NM 88221
575 689-7040

email or Fax#:

QA/QC Package: Standard Level 4 (Full Validation)

Accreditation NELAP Other _____

EDD (Type) _____

Turn-Around Time: NA

Standard Rush _____

Project Name: _____

Project #: 1B #11

Project Manager: AUSTIN WEHANT

Sampler: SAW

On Ice: Yes No

Sample Temperature: _____

Container Type and # _____

Preservative Type _____

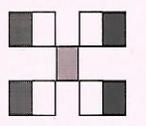
HEAL No. _____

Date	Time	Matrix	Sample Request ID
9/19	1:17	SOIL	#1 SOUTH
9/19	2:45	SOIL	#2 NORTH
9/19	3:00	SOIL	#0 CENTER

Date	Time	Received by:
4/4/02		
4/4/02		
4/4/02		

Date	Time	Received by:	Remarks:
9/19	1:17	AUSTIN WEHANT	ND ANALYSIS SEND TO STORAGE

<input type="checkbox"/> BTEX + MTBE + TMB's (8021)	<input type="checkbox"/>
<input type="checkbox"/> BTEX + MTBE + TPH (Gas only)	<input type="checkbox"/>
<input type="checkbox"/> TPH 8015B (GRO / DRO / MRO)	<input type="checkbox"/>
<input type="checkbox"/> TPH (Method 418.1)	<input type="checkbox"/>
<input type="checkbox"/> EDB (Method 504.1)	<input type="checkbox"/>
<input type="checkbox"/> PAH's (8310 or 8270 SIMS)	<input type="checkbox"/>
<input type="checkbox"/> RCRA 8 Metals	<input type="checkbox"/>
<input type="checkbox"/> Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	<input type="checkbox"/>
<input type="checkbox"/> 8081 Pesticides / 8082 PCB's	<input type="checkbox"/>
<input type="checkbox"/> 8260B (VOA)	<input type="checkbox"/>
<input type="checkbox"/> 8270 (Semi-VOA)	<input type="checkbox"/>
<input type="checkbox"/> Air Bubbles (Y or N)	<input type="checkbox"/>



HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 14, 2014

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: VB #11

OrderNo.: 1410165

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 8 sample(s) on 10/3/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1410165

Date Reported: 10/14/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: N1

Project: VB #11

Collection Date: 9/30/2014 9:00:00 AM

Lab ID: 1410165-001

Matrix: SOIL

Received Date: 10/3/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/6/2014 9:33:57 AM	15700
Surr: DNOP	87.9	57.9-140		%REC	1	10/6/2014 9:33:57 AM	15700
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/6/2014 9:40:39 PM	15706
Surr: BFB	93.1	80-120		%REC	1	10/6/2014 9:40:39 PM	15706
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.092		mg/Kg	1	10/6/2014 9:40:39 PM	15706
Benzene	ND	0.046		mg/Kg	1	10/6/2014 9:40:39 PM	15706
Toluene	ND	0.046		mg/Kg	1	10/6/2014 9:40:39 PM	15706
Ethylbenzene	ND	0.046		mg/Kg	1	10/6/2014 9:40:39 PM	15706
Xylenes, Total	ND	0.092		mg/Kg	1	10/6/2014 9:40:39 PM	15706
Surr: 4-Bromofluorobenzene	98.5	80-120		%REC	1	10/6/2014 9:40:39 PM	15706
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	2600	75		mg/Kg	50	10/9/2014 9:20:37 PM	15789

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Analytical Report

Lab Order **1410165**

Date Reported: **10/14/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: E3

Project: VB #11

Collection Date: 9/30/2014 9:18:00 AM

Lab ID: 1410165-002

Matrix: SOIL

Received Date: 10/3/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/6/2014 3:05:37 PM	15700
Surr: DNOP	72.5	57.9-140		%REC	1	10/6/2014 3:05:37 PM	15700
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/6/2014 10:09:11 PM	15706
Surr: BFB	93.9	80-120		%REC	1	10/6/2014 10:09:11 PM	15706
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	10/6/2014 10:09:11 PM	15706
Benzene	ND	0.049		mg/Kg	1	10/6/2014 10:09:11 PM	15706
Toluene	ND	0.049		mg/Kg	1	10/6/2014 10:09:11 PM	15706
Ethylbenzene	ND	0.049		mg/Kg	1	10/6/2014 10:09:11 PM	15706
Xylenes, Total	ND	0.099		mg/Kg	1	10/6/2014 10:09:11 PM	15706
Surr: 4-Bromofluorobenzene	98.7	80-120		%REC	1	10/6/2014 10:09:11 PM	15706
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	2600	150		mg/Kg	100	10/9/2014 9:33:01 PM	15789

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Analytical Report

Lab Order **1410165**

Date Reported: **10/14/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: W4

Project: VB #11

Collection Date: 9/30/2014 9:20:00 AM

Lab ID: 1410165-003

Matrix: SOIL

Received Date: 10/3/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/6/2014 3:35:51 PM	15700
Surr: DNOP	74.7	57.9-140		%REC	1	10/6/2014 3:35:51 PM	15700
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/6/2014 10:37:41 PM	15706
Surr: BFB	93.7	80-120		%REC	1	10/6/2014 10:37:41 PM	15706
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	10/6/2014 10:37:41 PM	15706
Benzene	ND	0.048		mg/Kg	1	10/6/2014 10:37:41 PM	15706
Toluene	ND	0.048		mg/Kg	1	10/6/2014 10:37:41 PM	15706
Ethylbenzene	ND	0.048		mg/Kg	1	10/6/2014 10:37:41 PM	15706
Xylenes, Total	ND	0.095		mg/Kg	1	10/6/2014 10:37:41 PM	15706
Surr: 4-Bromofluorobenzene	98.5	80-120		%REC	1	10/6/2014 10:37:41 PM	15706
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	2900	150		mg/Kg	100	10/9/2014 9:45:25 PM	15789

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Analytical Report

Lab Order **1410165**

Date Reported: **10/14/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S2

Project: VB #11

Collection Date: 9/30/2014 9:22:00 AM

Lab ID: 1410165-004

Matrix: SOIL

Received Date: 10/3/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/6/2014 4:06:00 PM	15700
Surr: DNOP	72.5	57.9-140		%REC	1	10/6/2014 4:06:00 PM	15700
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/6/2014 11:06:12 PM	15706
Surr: BFB	93.2	80-120		%REC	1	10/6/2014 11:06:12 PM	15706
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096		mg/Kg	1	10/6/2014 11:06:12 PM	15706
Benzene	ND	0.048		mg/Kg	1	10/6/2014 11:06:12 PM	15706
Toluene	ND	0.048		mg/Kg	1	10/6/2014 11:06:12 PM	15706
Ethylbenzene	ND	0.048		mg/Kg	1	10/6/2014 11:06:12 PM	15706
Xylenes, Total	ND	0.096		mg/Kg	1	10/6/2014 11:06:12 PM	15706
Surr: 4-Bromofluorobenzene	98.6	80-120		%REC	1	10/6/2014 11:06:12 PM	15706
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	55	1.5		mg/Kg	1	10/8/2014 4:27:08 PM	15789

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Analytical Report

Lab Order 1410165

Date Reported: 10/14/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: C5

Project: VB #11

Collection Date: 9/30/2014 9:24:00 AM

Lab ID: 1410165-005

Matrix: SOIL

Received Date: 10/3/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/6/2014 4:35:39 PM	15700
Surr: DNOP	78.2	57.9-140		%REC	1	10/6/2014 4:35:39 PM	15700
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/6/2014 11:34:42 PM	15706
Surr: BFB	93.6	80-120		%REC	1	10/6/2014 11:34:42 PM	15706
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.094		mg/Kg	1	10/6/2014 11:34:42 PM	15706
Benzene	ND	0.047		mg/Kg	1	10/6/2014 11:34:42 PM	15706
Toluene	ND	0.047		mg/Kg	1	10/6/2014 11:34:42 PM	15706
Ethylbenzene	ND	0.047		mg/Kg	1	10/6/2014 11:34:42 PM	15706
Xylenes, Total	ND	0.094		mg/Kg	1	10/6/2014 11:34:42 PM	15706
Surr: 4-Bromofluorobenzene	98.2	80-120		%REC	1	10/6/2014 11:34:42 PM	15706
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	120	30		mg/Kg	20	10/8/2014 5:04:22 PM	15789

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1410165

Date Reported: 10/14/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: C6

Project: VB #11

Collection Date: 9/30/2014 9:25:00 AM

Lab ID: 1410165-006

Matrix: SOIL

Received Date: 10/3/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/6/2014 5:05:35 PM	15700
Surr: DNOP	86.4	57.9-140		%REC	1	10/6/2014 5:05:35 PM	15700
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/7/2014 12:31:55 AM	15706
Surr: BFB	92.3	80-120		%REC	1	10/7/2014 12:31:55 AM	15706
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	10/7/2014 12:31:55 AM	15706
Benzene	ND	0.050		mg/Kg	1	10/7/2014 12:31:55 AM	15706
Toluene	ND	0.050		mg/Kg	1	10/7/2014 12:31:55 AM	15706
Ethylbenzene	ND	0.050		mg/Kg	1	10/7/2014 12:31:55 AM	15706
Xylenes, Total	ND	0.099		mg/Kg	1	10/7/2014 12:31:55 AM	15706
Surr: 4-Bromofluorobenzene	95.7	80-120		%REC	1	10/7/2014 12:31:55 AM	15706
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	2700	75		mg/Kg	50	10/9/2014 9:57:49 PM	15789

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Analytical Report

Lab Order **1410165**

Date Reported: **10/14/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: 12" T

Project: VB #11

Collection Date: 9/30/2014 9:27:00 AM

Lab ID: 1410165-007

Matrix: SOIL

Received Date: 10/3/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	38	10		mg/Kg	1	10/6/2014 5:35:29 PM	15700
Surr: DNOP	88.2	57.9-140		%REC	1	10/6/2014 5:35:29 PM	15700
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/7/2014 1:00:26 AM	15706
Surr: BFB	92.4	80-120		%REC	1	10/7/2014 1:00:26 AM	15706
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.092		mg/Kg	1	10/7/2014 1:00:26 AM	15706
Benzene	ND	0.046		mg/Kg	1	10/7/2014 1:00:26 AM	15706
Toluene	ND	0.046		mg/Kg	1	10/7/2014 1:00:26 AM	15706
Ethylbenzene	ND	0.046		mg/Kg	1	10/7/2014 1:00:26 AM	15706
Xylenes, Total	ND	0.092		mg/Kg	1	10/7/2014 1:00:26 AM	15706
Surr: 4-Bromofluorobenzene	96.2	80-120		%REC	1	10/7/2014 1:00:26 AM	15706
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	270	30		mg/Kg	20	10/8/2014 5:54:00 PM	15789

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Analytical Report

Lab Order **1410165**

Date Reported: **10/14/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SP1

Project: VB #11

Collection Date: 9/30/2014 9:30:00 AM

Lab ID: 1410165-008

Matrix: SOIL

Received Date: 10/3/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	33	10		mg/Kg	1	10/6/2014 6:05:46 PM	15700
Surr: DNOP	84.2	57.9-140		%REC	1	10/6/2014 6:05:46 PM	15700
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/7/2014 1:29:02 AM	15706
Surr: BFB	92.4	80-120		%REC	1	10/7/2014 1:29:02 AM	15706
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	10/7/2014 1:29:02 AM	15706
Benzene	ND	0.049		mg/Kg	1	10/7/2014 1:29:02 AM	15706
Toluene	ND	0.049		mg/Kg	1	10/7/2014 1:29:02 AM	15706
Ethylbenzene	ND	0.049		mg/Kg	1	10/7/2014 1:29:02 AM	15706
Xylenes, Total	ND	0.099		mg/Kg	1	10/7/2014 1:29:02 AM	15706
Surr: 4-Bromofluorobenzene	96.4	80-120		%REC	1	10/7/2014 1:29:02 AM	15706
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	28	7.5		mg/Kg	5	10/8/2014 6:06:24 PM	15789

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410165

14-Oct-14

Client: Souder, Miller & Associates

Project: VB #11

Sample ID	MB-15789	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	15789	RunNo:	21767					
Prep Date:	10/8/2014	Analysis Date:	10/8/2014	SeqNo:	639352	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-15789	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	15789	RunNo:	21767					
Prep Date:	10/8/2014	Analysis Date:	10/8/2014	SeqNo:	639353	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.9	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410165

14-Oct-14

Client: Souder, Miller & Associates

Project: VB #11

Sample ID MB-15700	SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: PBS	Batch ID: 15700		RunNo: 21678							
Prep Date: 10/3/2014	Analysis Date: 10/6/2014		SeqNo: 636393		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.1		10.00		91.3	57.9	140			

Sample ID LCS-15700	SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 15700		RunNo: 21678							
Prep Date: 10/3/2014	Analysis Date: 10/6/2014		SeqNo: 636394		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.9	68.6	130			
Surr: DNOP	4.1		5.000		82.0	57.9	140			

Sample ID 1410165-001AMS	SampType: MS		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: N1	Batch ID: 15700		RunNo: 21678							
Prep Date: 10/4/2014	Analysis Date: 10/6/2014		SeqNo: 636718		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.9	49.26	0	89.7	40.1	152			
Surr: DNOP	3.4		4.926		69.5	57.9	140			

Sample ID 1410165-001AMSD	SampType: MSD		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: N1	Batch ID: 15700		RunNo: 21678							
Prep Date: 10/4/2014	Analysis Date: 10/6/2014		SeqNo: 636719		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.9	49.60	0	79.1	40.1	152	11.9	32.1	
Surr: DNOP	2.6		4.960		52.3	57.9	140	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410165

14-Oct-14

Client: Souder, Miller & Associates

Project: VB #11

Sample ID MB-15706	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 15706		RunNo: 21690							
Prep Date: 10/3/2014	Analysis Date: 10/6/2014		SeqNo: 636820		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		89.1	80	120			

Sample ID LCS-15706	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 15706		RunNo: 21690							
Prep Date: 10/3/2014	Analysis Date: 10/6/2014		SeqNo: 636821		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	65.8	139			
Surr: BFB	1000		1000		101	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410165

14-Oct-14

Client: Souder, Miller & Associates

Project: VB #11

Sample ID MB-15706	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 15706		RunNo: 21690							
Prep Date: 10/3/2014	Analysis Date: 10/6/2014		SeqNo: 636858		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	80	120			

Sample ID LCS-15706	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 15706		RunNo: 21690							
Prep Date: 10/3/2014	Analysis Date: 10/6/2014		SeqNo: 636859		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.96	0.10	1.000	0	96.4	80	120			
Benzene	0.99	0.050	1.000	0	98.9	80	120			
Toluene	0.99	0.050	1.000	0	99.3	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1410165

ReptNo: 1

Received by/date: AG 10/03/14
Logged By: Michelle Garcia 10/3/2014 10:00:00 AM
Completed By: Michelle Garcia 10/3/2014 11:22:09 AM
Reviewed By: [Signature] 10/03/14

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes [] No [] Not Present [x]
2. Is Chain of Custody complete? Yes [x] No [] Not Present []
3. How was the sample delivered? UPS

Log In

- 4. Was an attempt made to cool the samples? Yes [x] No [] NA []
5. Were all samples received at a temperature of >0° C to 6.0°C Yes [] No [x] NA []
6. Sample(s) in proper container(s)? Yes [x] No []
7. Sufficient sample volume for indicated test(s)? Yes [x] No []
8. Are samples (except VOA and ONG) properly preserved? Yes [x] No []
9. Was preservative added to bottles? Yes [] No [x] NA []
10. VOA vials have zero headspace? Yes [] No [] No VOA Vials [x]
11. Were any sample containers received broken? Yes [] No [x]
12. Does paperwork match bottle labels? Yes [x] No []
13. Are matrices correctly identified on Chain of Custody? Yes [x] No []
14. Is it clear what analyses were requested? Yes [x] No []
15. Were all holding times able to be met? Yes [x] No []

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by:

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes [] No [] NA [x]

Person Notified:
By Whom:
Regarding:
Client Instructions:
Date:
Via: [] eMail [] Phone [] Fax [] In Person

17. Additional remarks:

18. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 9.6, Good, Yes

Chain-of-Custody Record

Client: SMA

Project Name: VB #11

Project #: [Blank]

Project Manager: WEHANT

Sampler: JAW

On Ice: Yes No

Sample Temperature: 9.4

HEAL No. 1410165



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Analysis Request	Remarks
BTEX + MTBE + TMB's (8021)	X
BTEX + MTBE + TPH (Gas only)	X
TPH 8015B (GRO / DRO / MRO)	X
TPH (Method 418.1)	X
EDB (Method 504.1)	X
PAH's (8310 or 8270 SIMS)	X
RCRA 8 Metals	X
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	X
8081 Pesticides / 8082 PCB's	X
8260B (VOA)	X
8270 (Semi-VOA)	X
Air Bubbles (Y or N)	CI-

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
9/30	9:00	Soil	N1	4oz	ICE	-001
9/30	9:10		F3			-002
9/30	9:20		W4			-003
9/30	9:22		S2			-004
9/30	9:24		C5			-005
9/30	9:25		C6			-006
9/30	9:27		12" T			-007
9/30	9:30		SPI			-008

Relinquished by: [Signature]

Relinquished by: [Signature]

Date: 09/30 Time: 9:30

Date: 10/03/14 Time: 10:00

Valve Box #11 Closure Report
Agave Energy Company
Sec 5 T19S R25E, Eddy County, New Mexico
December 5, 2014 Revised February 13, 2015

Appendix E

Run Ticket Waste Disposal

Invoice

PO BOX 878
Carlsbad, NM 88221



Date	Invoice #
10/28/2014	15555

Bill To
Souder Miller & Associates 5904 Rodeo Park Dr. East Building 100, Santa Fe NM 87505



P.O. No.	Terms	Location
523302	Net 30	Valve Box # 1

Quantity	Description	Rate	Amount
	Valve Box # 1		
	10/21/14 - Smoothed out are, dug out around 12" PVC to cap at location ticket # 8448		
11	Labor	40.00	440.00
2	Supervisor	65.00	130.00
1	Pickup Truck	62.00	62.00
11	Backhoe	95.00	1,045.00
	10/22/14 - Finished digging out and took fence down at location ticket # 8449		
11	Labor	40.00	440.00
2	Supervisor	65.00	130.00
1	Pickup Truck	62.00	62.00
11	Backhoe	95.00	1,045.00
	10/23/14 - Helped moved top soil back in hole at location ticket # 8450		
11	Labor	40.00	440.00
2	Supervisor	65.00	130.00
1	Pickup Truck	62.00	62.00
11	Backhoe	95.00	1,045.00
	10/24/14 - Back filled hole with top soil ticket # 8625		
6	Labor	40.00	240.00
1	Supervisor	65.00	65.00
1	Pickup Truck	62.00	62.00
12	Backhoe	95.00	1,140.00
12	Belly Dump Truck	105.00	1,260.00
1	Top Soil	736.00	736.00

Thank you for your business.	Company Man	Salesman	Account	Total	\$8,534.00
	Austin Weyant	JC			

Trucking & Contracting Services, LLC



P.O. Box 878
 Carlsbad, NM 88221
 Office: 575-887-5827
 Fax: 575-234-1572

432-557-7202
 432-664-4668
 www.tcstrucking.com

Texas
 Lea, New Mex.
 Eddy, New Mex.

DIRT WORK TICKET N^o 8450

AUTHORIZATION FOR WORK

COMPANY Snyder Miller & Associates COMPANY REP Austin Wayant
 LEASE Value Box #11 WELL _____
 DESCRIPTION OF WORK Help Dudley lift + set Rizer move Top Soil
Back in Hole

T.C.S. REP _____

Unit Number	Qty.	Name	Hours	Material	Time: From <u>6:00</u> To: <u>5:00</u>		
Foreman				Qty. Part No. Material	Amount	Total	
Labor	1	Elisor	11 1/2				
Labor							
Labor							
1 Ton Truck/Trailer							
Supervisor	1	Jerry	2 1/2				
Pickup Truck	1	Dodge	All Day				
Heavy Equipment							
Backhoe	1	JR	11 1/2	Misc. Equipment	Hours	Price Hr.	Total
Dump Truck							
Belly Dump							
Water Truck							
Vacuum Truck							
Dozer D6							
Dozer D8							
Excavator							
Grid Roller				Employee Names			
Vibratory Roller							
Loader (Small)							
Loader (Big)							
Motor Grader							
Haul Truck				Surcharge			
Pipe Trailer				Mileage			
Trash Trailer					Sub Total		
Utility Truck					Tax		
Skid Steer					Total		

Date 10-23-14

Customer Signature _____

Trucking & Contracting
 Services, LLC
 PO BOX 878
 Carlsbad, NM 88221



TRUCKING & CONTRACTING SERVICES, LLC

Invoice

Date	Invoice #
10/14/2014	15292

Bill To
Souder Miller & Associates 5904 Rodeo Park Dr. East Bulding 100, Santa Fe NM 87505

Company Man	P.O. No.	Terms	Salesman	Location	
Jennifer Knowlton	606-2020	Net 30	JC	Valve Box # 11	
Quantity	Description		Rate	Amount	
	10/9/14 - PVC water line on vac truck broke, sent backhoe to help onon ticket # 8468				
5	Labor		40.00	200.00	
2	Supervisor		65.00	130.00	
1	Pickup Truck		62.00	62.00	
5	Backhoe		95.00	475.00	
Thank you for your business.			Total	\$867.00	

Phone #	575-887-5827
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Texas
 Lea, New Mex.
 Eddy, New Mex.

DIRT WORK TICKET No 8468

AUTHORIZATION FOR WORK

COMPANY Agave COMPANY REP Jeanifer Knowlton
 LEASE WALVE BOX #11 WELL _____
 DESCRIPTION OF WORK VAC TRUCK Broke pvc water line send BACK 4ole For Help on on ~~Hot~~ Hold ~~Water~~ poly pipe
 T.C.S. REP JC Hourly

Unit Number	Qty.	Name	Hours	Material	Amount	Total
Foreman				Qty. Part No. Material		
Labor	1	Elinson	5 4R			
Labor						
Labor						
1 Ton Truck/Trailer						
Supervisor	1	Jeery	2 4R			
Pickup Truck	1	Dodge	5 4R			
Heavy Equipment						
Backhoe	1	JR	5 4R	Misc. Equipment	Hours	Price Hr. Total
Dump Truck						
Belly Dump						
Water Truck						
Vacuum Truck						
Dozer D6						
Dozer D8						
Excavator						
Grid Roller				Employee Names		
Vibratory Roller						
Loader (Small)						
Loader (Big)						
Motor Grader						
Haul Truck				Surcharge		
Pipe Trailer				Mileage		
Trash Trailer						
Utility Truck						
Skid Steer						
					Sub Total	
					Tax	
					Total	

Date 10-9-14 Customer Signature _____

Trucking & Contracting
 Services, LLC
 PO BOX 878
 Carlsbad, NM 88221



TRUCKING & CONTRACTING SERVICES, LLC

Invoice

Date	Invoice #
10/6/2014	15113

Bill To
Souder Miller & Associates 500 N. Main St. # 504 Roswell, NM, 88201

Company Man	P.O. No.	Terms	Salesman	Location
Jennifer Knowlton	606-2020	Net 30	JC	Lodewick Dagger Draw Water/ G

Quantity	Description	Rate	Amount
	Lodewick Dagger Draw Water/ Gas System		
	10/1/14 - Helped put up fence at location ticket # 8612		
6	Labor	40.00	240.00
6	Labor	40.00	240.00
1	Pickup Truck	60.00	60.00

Thank you for your business.	Total	\$540.00
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Phone #	575-887-5827
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 Fax: 575-234-1572

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Texas
 Lea, New Mex.
 Eddy, New Mex.

DIRT WORK TICKET N^o 8612

AUTHORIZATION FOR WORK

COMPANY Agave COMPANY REP Jennifer Knauer
 LEASE Ladewick Dagger Draw water + Gas System WELL _____
 DESCRIPTION OF WORK Help put up fence

T.C.S. REP. JC

Hourly

Unit Number	Qty.	Name	Hours	Material	Time: From	Time: To	Amount	Total
					6:00	12:00		
Foreman				Qty. Part No. Material				
Labor	1	Javier L	6 4R					
Labor	1	Justin M	6 4R					
Labor								
1 Ton Truck/Trailer								
Supervisor								
Pickup Truck	1	F250	6 4R					
Heavy Equipment								
Backhoe				Misc. Equipment	Hours	Price Hr.		Total
Dump Truck								
Belly Dump								
Water Truck								
Vacuum Truck								
Dozer D6								
Dozer D8								
Excavator								
Grid Roller				Employee Names				
Vibratory Roller								
Loader (Small)								
Loader (Big)								
Motor Grader								
Haul Truck				Surcharge				
Pipe Trailer				Mileage				
Trash Trailer								
Utility Truck								
Skid Steer								
							Sub Total	
							Tax	
							Total	

Date 10-1-14

Customer Signature _____

Trucking & Contracting
 Services, LLC
 PO BOX 878
 Carlsbad, NM 88221



TRUCKING & CONTRACTING SERVICES, LLC

Invoice

Date	Invoice #
9/8/2014	14549

Bill To
Souder Miller & Associates 500 N. Main St. # 504 Roswell, NM, 88201

Company Man	P.O. No.	Terms	Salesman	Location	
Jennifer Knowlton	606-2020	Net 30	JC	Dagger Draw Water/ Gas System	
Quantity	Description		Rate	Amount	
15.5	9/2/14 - Used hydrovac at location ticket # 8535 Hydrovac		310.00	4,805.00	
10.5	9/3/14 - Used hydrovac for pipes at location ticket # 8536 Hydrovac		310.00	3,255.00	
9.5	9/4/14 - Used hydrovac for pipes at location ticket # 8537 Hydrovac		310.00	2,945.00	
11.5	9/5/14 - Used hydrovac for pipes at location ticket # 8538 Hydrovac		310.00	3,565.00	
Thank you for your business.			Total	\$14,570.00	

Phone #	575-887-5827
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Texas
 Lea, New Mex.
 Eddy, New Mex.

DIRT WORK TICKET No 8537

AUTHORIZATION FOR WORK

COMPANY Acme COMPANY REP Jennifera Kowal-Horn
 LEASE Digger Draw water/gas system WELL _____
 DESCRIPTION OF WORK Hydraulic pipe, line

T.C.S. REP _____

Unit Number	Time: From		To:				
Qty.	Name	Hours	Material				
			Qty.	Part No.	Material	Amount	Total
Foreman							
Labor							
Labor							
Labor							
1 Ton Truck/Trailer							
Supervisor							
Pickup Truck							
Heavy Equipment							
Backhoe			Misc. Equipment		Hours	Price Hr.	Total
Dump Truck			<u>Hydraulic</u>		<u>9 1/2</u>	<u>42</u>	
Belly Dump							
Water Truck							
Vacuum Truck							
Dozer D6							
Dozer D8							
Excavator							
Grid Roller			Employee Names				
Vibratory Roller							
Loader (Small)							
Loader (Big)							
Motor Grader							
Haul Truck			Surcharge				
Pipe Trailer			Mileage				
Trash Trailer			Sub Total				
Utility Truck			Tax				
Skid Steer			Total				

Date 9-4-14

Customer Signature _____

Trucking & Contracting Services, LLC



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 Office: 575-887-5827
 Fax: 575-234-1572

432-557-7202
 432-664-4668
 www.tcstrucking.com

Texas
 Lea, New Mex.
 Eddy, New Mex.

D&RT
 WORK TICKET N^o 8538

AUTHORIZATION FOR WORK

COMPANY Agave COMPANY REP Jennifer Knowlton
 LEASE Digger Down water/gas system WELL
 DESCRIPTION OF WORK Hydraulic pipe line

T.C.S. REP _____

Unit Number	Qty.	Name	Hours	Material	Time: From	To:
Foreman				Qty. Part No. Material		Amount Total
Labor						
Labor						
Labor						
1 Ton Truck/Trailer						
Supervisor						
Pickup Truck						
Heavy Equipment						
Backhoe				Misc. Equipment	Hours	Price Hr. Total
Dump Truck				<u>Hydraulic</u>	<u>10 1/2 hr</u>	
Belly Dump						
Water Truck						
Vacuum Truck						
Dozer D6						
Dozer D8						
Excavator						
Grid Roller				Employee Names		
Vibratory Roller						
Loader (Small)						
Loader (Big)						
Motor Grader						
Haul Truck				Surcharge		
Pipe Trailer				Mileage		
Trash Trailer				Sub Total		
Utility Truck				Tax		
Skid Steer				Total		

Date 9-5-14 Customer Signature _____

Trucking & Contracting
 Services, LLC
 PO BOX 878
 Carlsbad, NM 88221



TRUCKING & CONTRACTING SERVICES, LLC

Invoice

Date	Invoice #
9/5/2014	14512

Bill To
Souder Miller & Associates 500 N. Main St. # 504 Roswell , NM, 88201

Company Man	P.O. No.	Terms	Salesman	Location
Jennifer Kowtow	606-2020	Net 30	JC	Lodewick T.B Dagger
Quantity	Description	Rate	Amount	
	Location : Lodewick T.B Dagger Draw Water System			
	8/25/14 - Smoothed out road at job dug out tin hornsticket # 9873			
11	Labor	40.00	440.00	
4	Supervisor	65.00	260.00	
1	Pickup Truck	60.00	60.00	
11	Backhoe	95.00	1,045.00	

Thank you for your business.	Total	\$1,805.00
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Phone #	575-887-5827
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Texas
 Lea, New Mex.
 Eddy, New Mex.

DIRT
 WORK TICKET

No 9873

AUTHORIZATION FOR WORK

COMPANY Agave COMPANY REP Jennifer Knutson
 LEASE Lodewick T.B Dagger Denw water System WELL
 DESCRIPTION OF WORK Smooth out Road + Job, Dig out Tin Hole

T.C.S. REP _____

Unit Number	Time: From <u>6:00</u>		To: <u>5:00</u>	
	Qty.	Name	Hours	Material
Foreman				Qty. Part No. Material Amount Total
Labor	1	Elison	11 Hr	
Labor				
Labor				
1 Ton Truck/Trailer				
Supervisor	1	Joey	4 Hr	
Pickup Truck	1	Dodge	All Day	
Heavy Equipment				
Backhoe	1	JR	11 Hr	Misc. Equipment Hours Price Hr. Total
Dump Truck				
Belly Dump				
Water Truck				
Vacuum Truck				
Dozer D6				
Dozer D8				
Excavator				
Grid Roller				Employee Names
Vibratory Roller				
Loader (Small)				
Loader (Big)				
Motor Grader				
Haul Truck				Surcharge
Pipe Trailer				Mileage
Trash Trailer				Sub Total
Utility Truck				Tax
Skid Steer				Total

Date 8-25-14 Customer Signature _____

Trucking & Contracting
 Services, LLC
 PO BOX 878
 Carlsbad, NM 88221



TRUCKING & CONTRACTING SERVICES, LLC

Invoice

Date	Invoice #
9/5/2014	14511

Bill To
Souder Miller & Associates 500 N. Main St. # 504 Roswell, NM, 88201

Company Man	P.O. No.	Terms	Salesman	Location
Jennifer Knowlton	606-2020	Net 30	JC	North Dagger Draw Gas System
Quantity	Description	Rate	Amount	
	8/28/14 - Filled hole 2 valve box; helped with fence at location ticket # 8577			
6	Labor	40.00	240.00	
1	Pickup Truck	60.00	60.00	
6	Backhoe	95.00	570.00	
2.5	Belly Dump Truck	105.00	262.50	
10	10 Yards of Caliche	8.05	80.50	
Thank you for your business.			Total	\$1,213.00
Phone #	575-887-5827			

Trucking & Contracting
 Services, LLC
 PO BOX 878
 Carlsbad, NM 88221



TRUCKING & CONTRACTING SERVICES, LLC

Invoice

Date	Invoice #
9/5/2014	14500

Bill To
Souder Miller & Associates 500 N. Main St. # 504 Roswell, NM, 88201

Company Man	P.O. No.	Terms	Salesman	Location	
Jennifer Knowlton	606-2020	Net 30	JC	Thomson AAJ Johnson Battery	
Quantity	Description		Rate	Amount	
	Location :The Wooden Box				
	8/27/14 - Started working on fence at location # 8576				
12.5	Labor		40.00		500.00
4	Supervisor		65.00		260.00
1	Pickup Truck		60.00		60.00
12	Backhoe		95.00		1,140.00
	8/29/14 - Moved pills on dirt at location ticket # 8598				
3	Labor		40.00		120.00
3	Supervisor		65.00		195.00
1	Pickup Truck		60.00		60.00
3	Backhoe		95.00		285.00
Thank you for your business.			Total	\$2,620.00	

Phone #	575-887-5827
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Trucking & Contracting Services, LLC

P.O. Box 878
 Carlsbad, NM 88221
 Office: 575-887-5827
 Fax: 575-234-1572



432-557-7202
 432-664-4668
 www.tcstrucking.com

Texas
 Lea, New Mex.
 Eddy, New Mex.

DIRT WORK TICKET No 8576

AUTHORIZATION FOR WORK

COMPANY Agave COMPANY REP Jennifer Knowlton

LEASE Thomas AAJ Johnston WELL _____

DESCRIPTION OF WORK wait on Agave went to hook up wooden boxes to back fill started to work on fence's

T.C.S. REP _____

Unit Number	Qty.	Name	Hours	Time: From 6:00 To 6:30				
				Qty.	Part No.	Material	Amount	Total
Foreman								
Labor	1	Elison	12 1/2 hr					
Labor								
Labor								
1 Ton Truck/Trailer								
Supervisor	1	Jerem	4 1/2					
Pickup Truck	1	Dodge	All Day					
Heavy Equipment								
Backhoe	1	JR	12 1/2 hr			Misc. Equipment	Hours	Price Hr. Total
Dump Truck								
Belly Dump								
Water Truck								
Vacuum Truck								
Dozer D6								
Dozer D8								
Excavator								
Grid Roller				Employee Names				
Vibratory Roller								
Loader (Small)								
Loader (Big)								
Motor Grader								
Haul Truck				Surcharge				
Pipe Trailer				Mileage				
Trash Trailer				Sub Total				
Utility Truck				Tax				
Skid Steer				Total				

Date 8-27-14 Customer Signature _____

Trucking & Contracting Services, LLC



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Texas
 Lea, New Mex.
 Eddy, New Mex.

DIRT WORK TICKET No 8598

AUTHORIZATION FOR WORK

COMPANY Heave COMPANY REP Jennifer Knowlton
 LEASE Tompson AAS Johnson Batten Title Leases Box WELL _____
 DESCRIPTION OF WORK move pills on SAT and 210 Tank

T.C.S. REP _____

Unit Number	Qty.	Name	Hours	Material	Amount	Total
				Time: From <u>1:00</u>		To: <u>4:00</u>
Foreman				Qty.	Part No.	Material
Labor	<u>1</u>	<u>Alex</u>	<u>3 1/2</u>			
Labor						
Labor						
1 Ton Truck/Trailer						
Supervisor	<u>1</u>	<u>Jerry</u>	<u>3 1/2</u>			
Pickup Truck	<u>1</u>	<u>F250</u>	<u>3 1/2</u>			
Heavy Equipment						
Backhoe	<u>1</u>	<u>Backhoe</u>	<u>3 1/2</u>	Misc. Equipment	Hours	Price Hr.
Dump Truck						
Belly Dump						
Water Truck						
Vacuum Truck						
Dozer D6						
Dozer D8						
Excavator						
Grid Roller				Employee Names		
Vibratory Roller						
Loader (Small)						
Loader (Big)						
Motor Grader						
Haul Truck				Surcharge		
Pipe Trailer				Mileage		
Trash Trailer						
Utility Truck						
Skid Steer						
					Sub Total	
					Tax	
					Total	

Date 8-29-14 Customer Signature _____

Valve Box #11 Closure Report
Agave Energy Company
Sec 5 T19S R25E, Eddy County, New Mexico
December 5, 2014 Revised February 13, 2015

Appendix F

Recommended Seed Mix

BLM Serial #:
Company Reference:

Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS
 Action 20280

CONDITIONS

Operator: Lucid Artesia Company 201 S. Fourth Street Artesia, NM 88210	OGRID: 147831
	Action Number: 20280
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	9/7/2021