

UICI - _____005_____

**PERMITS,
RENEWALS,
& MODS**

2017

DISCHARGE PERMIT UICI-5 (WDW-1)

1. GENERAL PROVISIONS:

1.A. PERMITTEE AND PERMITTED FACILITY: The Director of the Oil Conservation Division (OCD) of the Energy, Minerals and Natural Resources Department issues Discharge Permit UICI-5 (Discharge Permit) to AGUA MOSS, LLC (Permittee) to operate its Underground Injection Control (UIC) Class I non-hazardous waste injection well "Waste Disposal Well No. 1 (WDW-1) API No. 30-045-28653, located 1,595 FNL 1,005 FWL, Unit Letter "E", Section 2, Township 29 North, Range 12 West, (Lat. 36.75795, Long. -108.07343), NMPM, San Juan County, New Mexico. WDW-1 is located approximately 6 miles southwest of Aztec at the intersection of CR-3500 and CR-3773.

The Permittee is permitted to dispose of only non-hazardous (RCRA exempt and RCRA non-exempt non-hazardous) oil field waste fluids into WDW-1. Groundwater that may be affected by a spill, leak, or accidental discharge occurs at a depth of approximately 75 to 1200 feet below ground surface and has a total dissolved solids (TDS) concentration of approximately 450 mg/L.

1.B. SCOPE OF PERMIT: OCD has been granted the authority by statute and by delegation from the Water Quality Control Commission (WQCC) to administer the Water Quality Act (Chapter 74, Article 6 NMSA 1978) as it applies to Class I non-hazardous waste injection wells (see Section 74-6-4, 74-6-5 NMSA 1978).

The Water Quality Act and the rules promulgated pursuant to the Act protect ground water and surface water of the State of New Mexico by providing that, unless otherwise allowed by 20.6.2 NMAC, no person shall cause or allow effluent or leachate to discharge so that it may move directly or indirectly into ground water unless such discharge is pursuant to an approved discharge plan (see 20.6.2.3104 NMAC, 20.6.2.3106 NMAC, and 20.6.2.5000 through 20.6.2.5299 NMAC).

This Discharge Permit for a Class I non-hazardous waste injection well (WDW-1) is issued pursuant to the Water Quality Act and WQCC rules, 20.6.2 NMAC. This Discharge Permit does not authorize any treatment of, or on-site disposal of, any materials, product, by-product, or oil field waste, other than non-hazardous oil field waste fluids into its Class I non-hazardous waste injection well (WDW-1), including, but not limited to, the on-site disposal of lube oil, glycol, antifreeze, and wash-down water. The Permittee may not dispose of any industrial waste fluid that is not oil field waste that is generated at its refinery. The Ground Water Quality Bureau of the New Mexico Environment Department permits the management of all industrial fluids that are not generated in the oil field.

Pursuant to 20.6.2.5004A NMAC, the following underground injection activities are prohibited:

1. The injection of fluids into a motor vehicle waste disposal well is prohibited.
2. The injection of fluids into a large capacity cesspool is prohibited.

3. The injection of any hazardous or radioactive waste into a well is prohibited except as provided by 20.6.2.5004A(3) NMAC.
4. Class IV wells are prohibited, except for wells re-injecting treated ground water into the same formation from which it was drawn as part of a removal or remedial action.
5. Barrier wells, drainage wells, recharge wells, return flow wells, and motor vehicle waste disposal wells are prohibited.

This Discharge Permit does not convey any property rights of any sort nor any exclusive privilege, and does not authorize any injury to persons or property, any invasion of other private rights, or any infringement of state, federal, or local laws, rules or regulations.

The Permittee shall operate in accordance with the terms and conditions specified in this Discharge Permit to comply with the Water Quality Act and the rules issued pursuant to that Act, so that neither a hazard to public health nor undue risk to property will result (see 20.6.2.3109C NMAC); so that no discharge will cause or may cause any stream standard to be violated (see 20.6.2.3109H(2) NMAC); so that no discharge of any water contaminant will result in a hazard to public health (see 20.6.2.3109H(3) NMAC); so that the numerical standards specified in 20.6.2.3103 NMAC are not exceeded; and, so that the technical criteria and performance standards (see 20.6.2.5000 through 20.6.2.5299 NMAC) for Class I non-hazardous waste injection wells are met. Pursuant to 20.6.2.5003B NMAC, the Permittee shall comply with 20.6.2.1 through 20.6.2.5299 NMAC.

The Permittee shall not allow or cause water pollution, discharge, or release of any water contaminant that exceeds the Water Quality Control Commission (WQCC) standards specified in 20.6.2.3101 NMAC and 20.6.2.3103 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams). Pursuant to 20.6.2.5101A NMAC, the Permittee shall not inject waste fluids into ground water containing 10,000 mg/l or less total dissolved solids (TDS).

The issuance of this permit does not relieve the Permittee from the responsibility of complying with the provisions of the Water Quality Act, any applicable regulations or water quality standards of the WQCC, or any applicable federal laws, regulations or standards (see Section 74-6-5 NMSA 1978).

1.C. DISCHARGE PERMIT: This Discharge Permit (UICI-5) is a UIC Class I (Non-hazardous) Renewal Discharge Permit due to the expiration of the existing permit and continued use of the well.

1.D. DEFINITIONS: Terms not specifically defined in this Discharge Permit shall have the same meanings as those in the Water Quality Act or the rules adopted pursuant to the Act, as the context requires.

1.E. FILING FEES AND PERMIT FEES: Pursuant to 20.6.2.3114 NMAC, every facility that submits a Discharge Permit application for initial approval or renewal shall pay the permit fees specified in Table 1 and the filing fee specified in Table 2 of 20.6.2.3114 NMAC. OCD has

already received the required \$100.00 filing fee. The Permittee shall submit the final \$4,500.00 permit fee for a Class I non-hazardous waste injection well to OCD with a check made payable to "Water Quality Management Fund" no later than thirty days after the date that this permit is issued.

1.F. EFFECTIVE DATE, EXPIRATION, RENEWAL CONDITIONS, AND PENALTIES FOR OPERATING WITHOUT A DISCHARGE PERMIT: This Discharge Permit is effective immediately or until the permit is terminated or expires. This Discharge Permit will **expire on June 1, 2022**. The Permittee shall submit an application for renewal no later than 120 days before that expiration date, pursuant to 20.6.2.5101F NMAC. If a Permittee submits a renewal application at least 120 days before the Discharge Permit expires and is in compliance with the approved Discharge Permit, then the existing Discharge Permit will not expire until OCD has approved or disapproved the renewal application. A discharge permit continued under this provision remains fully effective and enforceable. Operating with an expired Discharge Permit may subject the Permittee to civil and/or criminal penalties (see Section 74-6-10.1 NMSA 1978 and Section 74-6-10.2 NMSA 1978).

1.G. MODIFICATIONS AND TERMINATIONS: The Permittee shall notify the OCD Director and the OCD's Environmental Bureau of any Facility expansion, any injection increase above the approved pressure limit or volume limit specified in Permit Condition 3.B.2, or process modification that would result in any significant modification in the discharge of water contaminants (see 20.6.2.3107C NMAC). The OCD Director may require the Permittee to submit a Discharge Permit modification application pursuant to 20.6.2.3109E NMAC and may modify or terminate a Discharge Permit pursuant to Sections 74-6-5(M) through (N) NMSA 1978 and 20.6.2.3109E and 20.6.2.5101I NMAC.

1. If data submitted pursuant to any monitoring requirements specified in this Discharge Permit or other information available to the OCD Director indicate that 20.6.2 NMAC is being or may be violated, then the OCD Director may require modification or, if it is determined by the OCD Director that the modification may not be adequate, may terminate this Discharge Permit for a Class I non-hazardous waste injection well (WDW-1) that was approved pursuant to the requirements of this 20.6.2.5000 through 20.6.2.5299 NMAC for the following causes:

a. Noncompliance by Permittee with any condition of this Discharge Permit;
or,

b. The Permittee's failure in the discharge permit application or during the discharge permit review process to disclose fully all relevant facts, or Permittee's misrepresentation of any relevant facts at any time; or,

c. A determination that the permitted activity may cause a hazard to public health or undue risk to property and can only be regulated to acceptable levels by discharge permit modification or termination (see 20.6.2.5101I NMAC).

2. This Discharge Permit may also be modified or terminated for any of the following causes:

- a. Violation of any provisions of the Water Quality Act or any applicable regulations, standard of performance or water quality standards;
- b. Violation of any applicable state or federal effluent regulations or limitations; or
- c. Change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge (see Section 74-6-5M NMSA 1978).

1.H. TRANSFER OF CLASS I NON-HAZARDOUS WASTE INJECTION WELL DISCHARGE PERMIT:

1. The transfer provisions of 20.6.2.3111 NMAC do not apply to a discharge permit for a Class I non-hazardous waste injection well.

2. Pursuant to 20.6.2.5101H NMAC, the Permittee may request to transfer its Class I non-hazardous waste injection well discharge permit if:

- a. The OCD Director receives written notice 30 days prior to the transfer date; and
- b. The OCD Director does not object prior to the proposed transfer date. OCD may require modifications to the discharge permit as a condition of transfer, and may require demonstration of adequate financial responsibility.

3. The written notice required in accordance with Permit Condition 1.H.2.a shall:

- a. Have been signed by the Permittee and the succeeding Permittee, and shall include an acknowledgment that the succeeding Permittee shall be responsible for compliance with the Class I non-hazardous waste injection well discharge permit upon taking possession of the facility;
- b. Set a specific date for transfer of the discharge permit responsibility, coverage and liability; and
- c. Include information related to the succeeding Permittee's financial responsibility required by 20.6.2.5210B(17) NMAC.

1.I. COMPLIANCE AND ENFORCEMENT: If the Permittee violates or is violating a condition of this Discharge Permit, OCD may issue a compliance order that requires compliance immediately or within a specified time period, or assess a civil penalty, or both (see Section 74-6-10 NMSA 1978). The compliance order may also include a suspension or termination of this Discharge Permit. OCD may also commence a civil action in district court for appropriate relief,

including injunctive relief (see Section 74-6-10(A)(2) NMSA 1978). The Permittee may be subject to criminal penalties for discharging a water contaminant without a discharge permit or in violation of a condition of a discharge permit; making any false material statement, representation, certification or omission of material fact in a renewal application, record, report, plan or other document filed, submitted or required to be maintained under the Water Quality Act; falsifying, tampering with or rendering inaccurate any monitoring device, method or record required to be maintained under the Water Quality Act; or failing to monitor, sample or report as required by a Discharge Permit issued pursuant to a state or federal law or regulation (see Section 74-6-10.2 NMSA 1978).

2. GENERAL FACILITY OPERATIONS:

2.A. QUARTERLY MONITORING REQUIREMENTS FOR CLASS I NON-HAZARDOUS WASTE INJECTION WELL: The Permittee shall properly conduct waste management injection operations at its facility by injecting only non-hazardous (RCRA exempt and RCRA non-hazardous, non-exempt) oil field waste fluids. Injected waste fluids shall not exhibit the RCRA characteristics, i.e., ignitability, reactivity, corrosivity, or toxicity under 40 CFR 261 Subpart "C" 261.21 – 261.24 (July 1, 1992), at the point of injection into WDW-1, based upon environmental analytical laboratory testing and/or monitoring. Pursuant to 20.6.2.5207B, the Permittee shall provide analyses of the injected fluids at least quarterly to yield data representative of their characteristics.

The Permittee shall also analyze the injected fluids quarterly for the following characteristics:

- pH (Method 9040),
- Eh,
- Specific conductance,
- Specific gravity,
- Temperature,
- Major dissolved cations and anions, including: fluoride, calcium, potassium, magnesium, sodium bicarbonate, carbonate, chloride, sulfate, bromide, total dissolved solids, and cation/anion balance using the methods specified in 40 CFR 136.3; and,
- EPA RCRA Characteristics for Ignitability (ASTM Methods); Corrosivity (SW-846) and Reactivity (determined through Permittee's application of knowledge or generating process).

The Permittee shall analyze the injected fluids quarterly for the constituents identified in the Quarterly Monitoring List (below) to demonstrate that the injected fluids do not exhibit the characteristic of toxicity using the Toxicity Characteristic Leaching Procedure, EPA SW-846 Test Method 1311 (see Table 1, 40 CFR 261.24(b)).

QUARTERLY MONITORING LIST			
EPA HW No.	Contaminant	SW-846 Methods	Regulatory Level (mg/L)
D004	Arsenic	1311	5.0
D005	Barium	1311	100.0
D018	Benzene	8021B	0.5
D006	Cadmium	1311	1.0
D019	Carbon tetrachloride	8021B 8260B	0.5
D020	Chlordane	8081A	0.03
D021	Chlorobenzene	8021B 8260B	100.0
D022	Chloroform	8021B 8260B	6.0
D007	Chromium	1311	5.0
D023	o-Cresol	8270D	200.0
D024	m-Cresol	8270D	200.0
D025	p-Cresol	8270D	200.0
D026	Cresol	8270D	200.0
D027	1,4-Dichlorobenzene	8021B 8121 8260B 8270D	7.5
D028	1,2-Dichloroethane	8021B 8260B	0.5
D029	1,1-Dichloroethylene	8021B 8260B	0.7
D030	2,4-Dinitrotoluene	8091 8270D	0.13
D032	Hexachlorobenzene	8121	0.13
D033	Hexachlorobutadiene	8021B 8121 8260B	0.5
D034	Hexachloroethane	8121	3.0
D008	Lead	1311	5.0
D009	Mercury	7470A 7471B	0.2
D035	Methyl ethyl ketone	8015B 8260B	200.0
D036	Nitrobenzene	8091 8270D	2.0
D037	Pentachlorophenol	8041	100.0
D038	Pyridine	8260B 8270D	5.0

D010	Selenium	1311	1.0
D011	Silver	1311	5.0
D039	Tetrachloroethylene	8260B	0.7
D040	Trichloroethylene	8021B 8260B	0.5
D041	2,4,5-Trichlorophenol	8270D	400.0
D042	2,4,6-Trichlorophenol	8041A 8270D	2.0
D043	Vinyl chloride	8021B 8260B	0.2

If o-, m-, and p-cresol concentrations cannot be differentiated, then the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/L. If the quantitation limit is greater than the regulatory level, then the quantitation limit becomes the regulatory level. If metals (dissolved), the EPA 1311 TCLP Laboratory Method is required with the exception of Mercury (total).

1. Monitor and Piezometer Wells: Groundwater with a total dissolved solids concentration of less than 10,000 mg/L occurs at an estimated depth of approximately 75 - 120 ft. below ground surface at the WDW-1 well (hereafter, “uppermost water-bearing unit”). A groundwater monitoring well with groundwater sampling capability shall be installed proximal to and hydrogeologically downgradient from WDW-1 to monitor the uppermost water-bearing unit. The monitoring well shall be screened (15 ft. screen with top of screen positioned 5 ft. above water table) into the uppermost water-bearing unit. The Permittee shall propose a monitoring frequency with chemical monitoring parameters to detect potential groundwater contamination either associated with or not associated with WDW-1.

2.B. CONTINGENCY PLANS: The Permittee shall implement its proposed contingency plan(s) included in its application to cope with failure of a system(s) in the Discharge Permit.

2.C. CLOSURE: The Permittee has submitted, and OCD has approved, a closure plan which includes a plan for the plugging and abandonment of WDW-1 (Closure Plan). The Permittee shall plug and abandon and close WDW-1 pursuant to 20.6.2.5209 NMAC and as specified in Closure Plan.

- 1. Pre-Closure Notification:** Pursuant to 20.6.2.5005A NMAC, the Permittee shall submit a pre-closure notification to OCD’s Environmental Bureau at least 30 days prior to the date that it proposes to close or to discontinue operation of WDW-1. Pursuant to 20.6.2.5005B NMAC, OCD’s Environmental Bureau must approve all proposed well closure activities before the Permittee may implement its proposed closure plan.
- 2. Required Information:** The Permittee shall provide OCD’s Environmental Bureau with the following information in the pre-closure notification specified in Permit Condition 2.C.1:
 - Name of facility;
 - Address of facility;
 - Name of Permittee (and owner or operator, if appropriate);

- Address of Permittee (and owner or operator, if appropriate);
- Contact person;
- Phone number;
- Number and type of well(s);
- Year of well construction;
- Well construction details;
- Type of discharge;
- Average flow (gallons per day);
- Proposed well closure activities (*e.g.*, sample fluids/sediment, appropriate disposal of remaining fluids/sediments, remove well and any contaminated soil, clean out well, install permanent plug, conversion to other type of well, ground water and vadose zone investigation, *etc.*);
- Proposed date of well closure;
- Name of Preparer; and
- Date.

3. **Closure Plan:** OCD may require the Permittee to revise or update the Closure Plan prior to closure. **The obligation to implement the Closure Plan as well as the requirements of the Plan survives the termination or expiration of this Discharge Permit.**

2.D. RECORD KEEPING: The Permittee shall maintain records of all inspections required by this Discharge Permit at its Facility office for a minimum of five years and shall make those records available for inspection by OCD.

2.E. RELEASE REPORTING: The Permittee shall comply with the following permit conditions, pursuant to 20.6.2.1203 NMAC, if it determines that a release of oil or other water contaminant, in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property, has occurred. The Permittee shall report unauthorized releases of water contaminants in accordance with any additional commitments made in its approved Contingency Plan. If the Permittee determines that any constituent exceeds the standards specified in 20.6.2.3103 NMAC, then it shall report a release to OCD's Environmental Bureau.

1. **Oral Notification:** As soon as possible after learning of such a discharge, but in no event more than twenty-four (24) hours thereafter, the Permittee shall notify OCD's Environmental Bureau. The Permittee shall provide the following:

- The name, address, and telephone number of the person or persons in charge of the facility, as well as of the owner and/or operator of the facility;
- The name and location of the facility;
- The date, time, location, and duration of the discharge;
- The source and cause of discharge;
- A description of the discharge, including its chemical composition;
- The estimated volume of the discharge; and

- Any corrective or abatement actions taken to mitigate immediate damage from the discharge.

2. Written Notification: Within one week after the Permittee has discovered a discharge, the Permittee shall send written notification (may use C-141 Form with attachments) to OCD's Environmental Bureau verifying the prior oral notification as to each of the foregoing items and providing any appropriate additions or corrections to the information contained in the prior oral notification.

The Permittee shall provide subsequent written reports as required by OCD's Environmental Bureau.

2.F. OTHER REQUIREMENTS:

1. Inspection and Entry: Pursuant to Section 74-6-9 NMSA 1978 and 20.6.2.3107A NMAC, the Permittee shall allow any authorized representative of the OCD Director to:

- Upon the presentation of proper credentials, enter the premises at reasonable times;
- Inspect and copy records required by this Discharge Permit;
- Inspect any treatment works, monitoring, and analytical equipment;
- Sample any effluent before or after discharge; and
- Use the Permittee's monitoring systems and wells in order to collect samples.

2. Advance Notice: The Permittee shall provide OCD's Environmental Bureau and Aztec District Office with at least five (5) working days' advance notice of any environmental sampling to be performed pursuant to this Discharge Permit, or any well subsurface work, i.e., Mechanical Integrity Testing, well plugging, abandonment or decommissioning of any equipment associated with WDW-1.

3. Environmental Monitoring: The Permittee shall ensure that any environmental sampling and analytical laboratory data collected meets the standards specified in 20.6.2.3107B NMAC. The Permittee shall ensure that all environmental samples are analyzed by an accredited "National Environmental Laboratory Accreditation Conference" (NELAC) Laboratory. The Permittee shall submit data summary tables, all raw analytical data, and EPA laboratory Quality Assurance/Quality Control (QA/QC) and Data Quality Objectives (DQOs) documentation to comply with OCD environmental sampling and analytical laboratory methods and data reporting requirements in New Mexico.

2.G. BONDING OR FINANCIAL ASSURANCE: Pursuant to 20.6.2.5210B(17) NMAC, the Permittee has submitted and will maintain financial assurance in the amount of \$ 95,000.00 to demonstrate the ability of Permittee to undertake the measures provided in the Closure Plan. The Permittee shall review the financial assurance each time the Closure Plan is revised or updated and prior to any renewal of this Discharge Permit to determine if the amount of financial

assurance is adequate. OCD may require additional financial assurance to ensure adequate funding is available to plug and abandon the well and/or for any required corrective action(s).

2.H. REPORTING:

1. Quarterly Reports: The Permittee shall submit quarterly reports pursuant to 20.6.2.5208A NMAC to OCD's Environmental Bureau no later than 45 days following the end of each calendar quarter. The quarterly reports shall include the following:

- a. Physical, chemical and other relevant characteristics of injection fluids;
 - b. Monthly average, maximum and minimum values for injection pressure, flow rate and volume, and annular pressure with any exceedances identified;
 - c. Results of monitoring prescribed under Section 20.6.2.5207B NMAC with any exceedances of Permit Condition 2.A;
 - d. Piezometer and monitor well information from Permit Condition 2.A.1;
- and
- e. Continuous monitoring chart(s) and information from Permit Condition 3.C.

2. Annual Report: The Permittee shall submit its annual report pursuant to 20.6.2.3107 NMAC to OCD's Environmental Bureau by **March 31st** of the following year. The annual report shall include the following:

- Cover sheet marked as "Annual Class I Non-Hazardous Waste Injection Well (WDW-1), Name of Permittee, Discharge Permit Number, API number of well, date of report, and person submitting report;
- Summary of Class I non-hazardous waste injection well operations for the year including a description and reason for any remedial or major work on the well with a copy of form C-103(s);
- Copy of Monthly injection/disposal volume, including the cumulative total should be carried over to each year;
- Maximum and average injection pressures;
- Copy of the quarterly chemical analyses shall be included with data summary and all QA/QC and DQO associated information;
- Copy of any mechanical integrity test (MIT) chart(s), including the type of test, *i.e.*, duration, gauge pressure, etc. unless OCD has approved Monthly Continuous Monitoring Charts for MITs in lieu of individual MITs;
- Copy of Fall-Off Test charts;
- Summary tables listing environmental analytical laboratory data for quarterly waste fluid samples. Any 20.6.2.3103 NMAC constituent(s) found to exceed a water quality standard shall be highlighted and noted in the annual report. The Permittee shall include copies of the most recent year's environmental analytical laboratory data

- sheets with QA/QC summary sheet information in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) and EPA Standards;
- Brief explanation describing deviations from the normal injection operations;
 - Results of any leaks and spill reports (include any C-141 reports);
 - Area of Review (AOR) annual update summary with any new wells penetrating the injection zone within a 1-mile radius from WDW-1;
 - Summary with interpretation of MITs, Fall-Off Tests, Bradenhead Tests, *etc.*, with conclusion(s) and recommendation(s);
 - Summary of all major Facility activities or events, which occurred during the year with any conclusions and recommendations;
 - Summary of any new discoveries of ground water contamination with all leaks, spills and releases and corrective actions taken; and,
 - Permittee shall file its Annual Report in an electronic format with a hard copy submittal to OCD's Environmental Bureau.

3. CLASS I NON-HAZARDOUS WASTE INJECTION WELL OPERATIONS:

3.A. OPERATING REQUIREMENTS: The Permittee shall comply with the operating requirements specified in 20.6.2.5206A NMAC and 20.6.2.5206B NMAC to ensure that:

1. The maximum injection pressure at the wellhead shall not initiate new fractures or propagate existing fractures in the confining zone, or cause the movement of injection or formation fluids into ground water having 10,000 mg/l or less TDS except for fluid movement approved pursuant to 20.6.2.5103 NMAC.

2. Injection between the outermost casing and the well bore is prohibited in a zone other than the authorized injection zone. If the Permittee determines that WDW-1 is discharging or suspects that it is discharging fluids into a zone or zones other than the permitted injection zone specified in Permit Condition 3.B.1, then the Permittee shall cease operations until proper repairs are made, notify the OCD's Environmental Bureau and Aztec District office within 24 hours, and shall not resume injection until the Permittee has received approval from the OCD.

3. Except during well stimulation, the maximum injection pressure shall not initiate new fractures or propagate existing fractures in the injection zone.

4. The annulus between the injection tubing and the long string of injection casing shall be filled with a fluid approved by the OCD Director with an annulus pressure also approved rework by the OCD Director.

3.B. INJECTION OPERATIONS:

1. Injection Formation, Interval (Zone) and Waste Fluids: The Permittee shall inject only non-hazardous (RCRA exempt and/or RCRA non-exempt) oil field waste fluids into the formations estimated to exist from ~ 4,380 to 4,480 feet below ground level (bgl) at WDW-1. The conductor casing is set at 209 feet. The production casing is set at 4,750 feet. The injection tubing will be set in the injection packer at approximately 4,282 feet, which isolates WDW-1

into the perforated injection interval estimated to be between 4,350 - 4,460 feet bgl. The Permittee shall ensure that the injected non-hazardous waste fluids enter perforations only within the specified injection interval and are not permitted to escape into other formations or onto the land surface.

2. Well Injection Pressure Limits and Injection Flow Rate: The Permittee shall ensure that the maximum allowable surface injection pressure on WDW-1 shall not exceed 2,400 psig and the injection flow rate shall not exceed 4,000 barrels per day (168,000 gallons per day). A Step-Rate Test (SRT) shall be performed and submitted to OCD under Sundry before approval of any increase in the injection pressure. The Permittee shall inspect and monitor the pressure-limiting device daily and shall report any pressure exceedances within 24 hours of detection to OCD's Environmental Bureau and Aztec District Office.

3. Pressure-Limiting Device: The Permittee shall equip and operate its Class I non-hazardous waste injection well or system with a pressure limiting device, or equivalent (i.e., Murphy switch), in working condition which shall at all times limit surface injection pressure to the maximum allowable surface injection pressure limit.

The Permittee shall inspect and monitor the pressure-limiting device daily and shall report any pressure exceedances within 24 hours of detection to OCD's Environmental Bureau and Aztec District Office. The Permittee shall take all steps necessary to ensure that the injected waste fluids enter only the permitted injection interval and not escape to other formations or onto the ground surface. The Permittee shall report to OCD's Environmental Bureau within 24 hours of discovery any indication that new fractures or existing fractures have been propagated under operational conditions, or that damage to the well, the injection zone, or formation has occurred.

OCD may authorize an increase in maximum surface injection pressure if the Permittee demonstrates that higher pressure will not result in migration of the injected fluid from the designated injection zone or interval using a valid Step-Rate Test (SRT) run preferably in coordination with a Fall-Off Test (FOT). Any increase in MSIP following testing shall not exceed the formation parting pressure, as determined from any OCD approved testing, which shall initiate fractures or propagate existing fractures in the injection zone.

3.C. CONTINUOUS MONITORING DEVICE: The Permittee shall continue to use a continuous monitoring device in advance of injection that records the monthly (hourly basis) real-time injection pressure, injection rate, injection volume, and pressure on the annulus between the injection tubing and the long string of casing. When changing charts, the Permittee shall utilize a procedure that depressurizes and properly re-aligns the pens on the chart scale during changing to prevent anomalous pressure noise, i.e., MIT annulus pressure, etc. The Permittee shall notify OCD within 24 hours after having knowledge of the MIT failure. The Permittee shall not resume injection operations until approved by OCD.

3.D. MECHANICAL INTEGRITY FOR CLASS I NON-HAZARDOUS WASTE INJECTION WELLS:

1. Pursuant to 20.6.2.5204 NMAC, the Permittee shall conduct a mechanical integrity test (MIT) for WDW-1 at least once every five years or more frequently as the OCD Director may require for good cause during the life of the well. In addition, an annual Bradenhead test shall be performed. The Permittee shall also demonstrate mechanical integrity for WDW-1 by completing an MIT after well workovers, including when it pulls the tubing or reseats the packer. The Permittee shall request MIT approval using form C-103 (Sundry Notices and Reports on Wells) with copies sent to OCD's Environmental Bureau and Aztec District Office. The Permittee shall notify OCD's Environmental Bureau 5 working days prior to conducting any MIT to allow OCD the opportunity to witness the MIT.

The Permittee shall conduct a casing-tubing annulus MIT from the surface to the approved injection packer depth to assess casing and tubing integrity. The MIT shall consist of a 30-minute test at a minimum pressure of 300 psig measured at the surface. The Permittee shall follow OCD's 2004 *New Mexico Oil Conservation Division Underground Injection Control Program Manual* guidance when conducting a MIT. The Permittee shall submit the results of its MIT to OCD's Environmental Bureau and Aztec District Office within 30 days of completion. If any remedial work or any other workover operations are necessary, the Permittee shall comply with Permit Condition 3.F.

2. A Class I non-hazardous waste injection well has mechanical integrity if there is no detectable leak in the casing, tubing or packer which OCD considers to be significant at maximum operating temperature and pressure, and no detectable conduit for fluid movement out of the injection zone through the well bore, or vertical channels adjacent to the well bore, which the OCD considers to be significant. The following criteria will determine if the Class I non-hazardous waste injection well has passed the MIT:

- a. The MIT passes if there is zero bleed-off during the test;
- b. The MIT passes if there is a less than a 10% change in the final test pressure compared to the starting pressure, if approved by OCD;
- c. The MIT fails if there is more than a 10% reduction in the final pressure compared to the starting pressure or that the pressure does not stabilize within 10% of the starting pressure before the end of the MIT. The Permittee shall immediately shut-in the well and investigate for leaks in accordance with Permit Conditions 3.B, 3.C, 3.D, and 3.F. The Permittee shall not resume injection operations until approved by OCD.
- d. When the MIT is not witnessed by OCD and fails, the Permittee shall immediately shut-in the well and investigate for leaks in accordance with Permit Conditions 3.C, 3.D, and 3.F. The Permittee shall notify OCD within 24 hours after having knowledge of the MIT failure. The Permittee shall not resume injection operations until approved by OCD.

3. Pursuant to 20.6.2.5204C NMAC, the OCD Director may consider the use of equivalent alternative test methods to determine mechanical integrity. The Permittee shall submit information on the proposed test and all technical data supporting its use. The OCD Director may approve the Permittee's request if it will reliably demonstrate the mechanical integrity of the well for which its use is proposed.

4. Pursuant to 20.6.2.5204D NMAC, when conducting and evaluating the MIT(s), the Permittee shall apply methods and standards generally accepted in the oil and gas industry. When the Permittee reports the results of all MIT(s) to the OCD Director, it shall include a description of the test(s), the method(s) used, and the test results.

5. The Permittee shall conduct a Bradenhead test at least annually and each time that it conducts an MIT.

3.E. FALL-OFF TEST: The Permittee shall submit an initial C-103 (Sundry Notice) form for the annually required Fall-Off Test (FOT). The minimum FOT frequency shall be at least annually before September 30th and comply with OCD's 2007 *New Mexico Oil Conservation Division UIC Class I Well Fall-Off Test Guidance* for conducting a FOT and for reporting FOT results. Historical FOT results shall be included with the FOT results to monitor injection zone characteristics over time. The Permittee shall submit the FOT results to the OCD Environmental Bureau and Aztec District Office within 60 days of FOT completion.

3.F. WELL WORKOVER OPERATIONS: The Permittee shall pursuant to 20.6.2.5205A (5) NMAC, provide notice to and shall obtain approval from the OCD District Office prior to commencement of any remedial work or any other workover operations to allow OCD the opportunity to witness the operation. The Permittee shall request approval using form C-103 (Sundry Notices and Reports on Wells) sent to the OCD District Office with copies sent to the OCD's Environmental Bureau. After completing remedial work, pressure tests, or any other workover operations, the Permittee shall run an MIT in accordance with Permit Condition 3.D to verify that the remedial work has successfully repaired any problems.

3.G. INJECTION RECORD VOLUMES AND PRESSURES: The Permittee shall submit quarterly reports of its injection operations and well workovers. The Permittee shall record the minimum, maximum, and average flow waste injection volumes (including total volumes) and annular pressures of the injected waste fluids on a monthly basis, and shall submit the data to OCD on a quarterly basis and in the annual report. The Permittee shall fill the casing-tubing annulus with an OCD-approved liquid and install a Murphy pressure switch or equivalent, as described in the Permittee's permit renewal application, in order to detect leakage in the casing, tubing, or packer.

3.H. AREA OF REVIEW (AOR): The Permittee shall report to OCD's Environmental Bureau within 72 hours of discovery of any new wells, conduits, or any other device that penetrates or may penetrate the injection zone within a 1-mile radius from its Class I non-hazardous waste injection well. Any un-cemented wells within the injection interval shall be identified by the Permittee and reported to OCD for further instruction.

4. CLASS V WELLS: Pursuant to 20.6.2.5002B NMAC, leach fields and other waste fluids disposal systems that inject non-hazardous fluid into or above an underground source of drinking water are UIC Class V injection wells. This Discharge Permit does not authorize the use of a Class V injection well for the disposal of industrial waste. Pursuant to 20.6.2.5005 NMAC, the Permittee shall close any Class V industrial waste injection well that injects non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes (*e.g.*, septic systems, leach fields, dry wells, *etc.*) within 90 calendar days of the issuance of this Discharge Permit. The Permittee shall document the closure of any Class V wells used for the disposal of non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes other than contaminated ground water in its Annual Report. Other Class V wells, including wells used only for the injection of domestic wastes, shall be permitted by the New Mexico Environment Department.

5. SCHEDULE OF COMPLIANCE:

5.A. QUARTERLY AND ANNUAL REPORTS: The Permittee shall submit its quarterly and annual reports to OCD as specified in Permit Condition 2.H.

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO

County of Bernalillo SS

Bernadette Gonzales, the undersigned, on oath states that she is an authorized Representative of The Albuquerque Journal, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made of assessed as court cost; that the notice, copy of which hereto attached, was published in said paper in the regular daily edition, for 1 time(s) on the following date(s):

06/18/2017

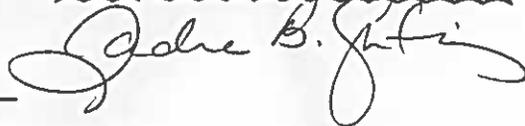
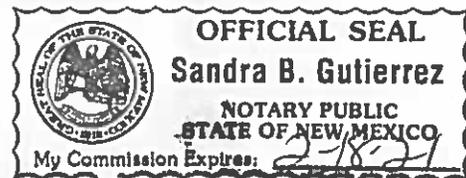


Sworn and subscribed before me, a Notary Public, in and for the County of Bernalillo and State of New Mexico this 18 day of June of 2017

PRICE \$107.49

Statement to come at the end of month.

ACCOUNT NUMBER 1009556



NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND
NATURAL RESOURCES
DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations (20.6.2.3108 NMAC), the following discharge permit renewal application has been submitted to the Director of the New Mexico Oil Conservation Division ("OC-D"), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3441:

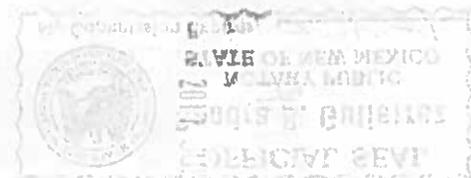
(UIC-5) Agua Moss, LLC, Phitana Thompson, Regulatory Compliance Specialist, P.O. Box 600, Farmington, New Mexico 87499, at (505) 488-1171 has submitted an application for an Underground Injection Control (UIC) Class I (Non-Hazardous) Injection Well Discharge Permit Renewal for the Sunco Waste Disposal Well No. 1 (API# 30-045-28653) located 1595 FNL and 1005 FWL in Unit E of Section 2, Township 29 North, Range 12 West (latitude 36.75795, and longitude 108.07343) NMPM, San Juan County, New Mexico. The injection well is located approximately 8 miles southwest of Aztec at the intersection of CR-3500 and CR-3773. Oil field exempt and non-exempt non-hazardous wastewater will be disposed into

TI
EX
AL
GO
NT
DI
R
RS

permit. OCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices. Persons interested in obtaining further information, submitting comments or requesting to be on a facility-specific mailing list for future notices may contact the Environmental Bureau Chief of the Oil Conservation Division at the address given above. The draft permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday, or may also be viewed at the OCD web site <http://www.emnr.state.nm.us/ocd/>. Persons interested in obtaining a copy of the application and draft permit may contact the OCD at the address given above. Prior to ruling on any proposed discharge permit or major modification, the Director shall allow a period of at least thirty (30) days after the date of publication of this notice, during which interested persons may submit comments or request that OCD hold a public hearing. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines that there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on information available, including all comments received. If a public hearing is held, the director will approve or disapprove the proposed permit renewal based on information in the permit application and information submitted at the hearing.

Para obtener más información sobre esta solicitud en español, sírvase comunicarse por favor:



AFFIDAVIT OF PUBLICATION

Ad No. 74024

**STATE OF NEW MEXICO
County of San Juan:**

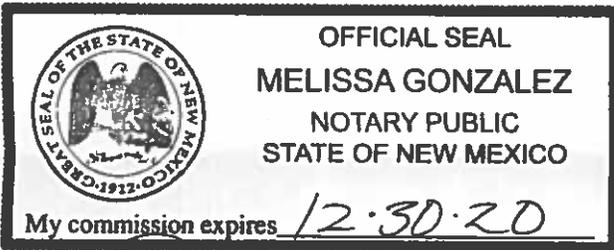
SAMMY LOPEZ, being duly sworn says: That She IS the PRESIDENT of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the State of New Mexico for publication and appeared in the Internet at The Daily Times web site on the following day(s):

Sunday, June 18, 2017

And the cost of the publication is \$202.87



SAMMY LOPEZ appeared before me, whom I know personally to be the person who signed the above document on the 21st of June, 2017.




[signature of Notary]
Melissa Gonzalez NOTARY PUBLIC

2017 JUN 29 10:52 AM
MELISSA GONZALEZ

COPY OF PUBLICATION

NOTICE OF PUBLICATION

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations (20.6.2.3108 NMAC), the following discharge permit renewal application has been

submitted to the Director of the New Mexico Oil Conservation Division ("OCD"), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3441:

(UICI-5) Agua Moss, LLC, Philana Thompson, Regulatory Compliance Specialist, P.O. Box 600, Farmington, New Mexico 87499, at (505) 486-1171 has submitted an application for an Underground Injection Control (UIC) Class I (Non-Hazardous) Injection Well Discharge Permit Renewal for the Sunco Waste Disposal Well No. 1 (API# 30-045-28653) located 1595 FNL and 1005 FWL in Unit E of Section 2, Township 29 North, Range 12 West (latitude 36.75795, and longitude 108.07343) NMPM, San Juan County, New Mexico. The Injection well is located approximately 6 miles southwest of Aztec at the intersection of CR-3500 and CR-3773. Oil field exempt and non-exempt non-hazardous wastewater will be disposed into the Point Lookout Sandstone Formation at a perforated injection interval from 4,350 ft. to 4,460 ft. below ground level (bgl) at a daily rate not to exceed 4,000 barrels per day and at a maximum surface injection pressure of 2,400 psig. The injection fluid contains approximately 31,000 ppm total dissolved solids (TDS). Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of about 75 - 120 ft. bgl with a TDS concentration of approximately 450 ppm. Water quality in the injection zone is approximately 17,200 ppm TDS. The discharge permit addresses well construction, operation, monitoring, associated surface units, financial assurance, and provides a contingency plan in the event of accidental spills, leaks and other accidental discharges to protect fresh water.

OCD has determined that the application is administratively complete and has prepared a draft permit. OCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices. Persons interested in obtaining further information, submitting comments or requesting to be on a facility-specific mailing list for future notices may contact the Environmental Bureau Chief of the Oil Conservation Division at the address given above. The draft permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday, or may also be viewed at the OCD web site <http://www.emnrd.state.nm.us/ocd/>. Persons interested in obtaining a copy of the application and draft permit may contact the OCD at the address given above. Prior to ruling on any proposed discharge permit or major modification, the Director shall allow a period of at least thirty (30) days after the date of publication of this notice, during which interested persons may submit comments or request that OCD hold a public hearing. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines that there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on information available, including all comments received. If a public hearing is held, the director will approve or disapprove the proposed permit renewal based on information in the permit application and information submit.

Para obtener más información sobre esta solicitud en español, sírvase comunicarse por favor: New Mexico Energy, Minerals and Natural Resources Department (Depto. Del Energía, Minerals y Recursos Naturales de Nuevo México), Oil Conservation Division (Depto. Conservación Del Petróleo), 1220 South St. Francis Drive, Santa Fe, New México (Contacto: Laura Tulk, 575-748-1283).

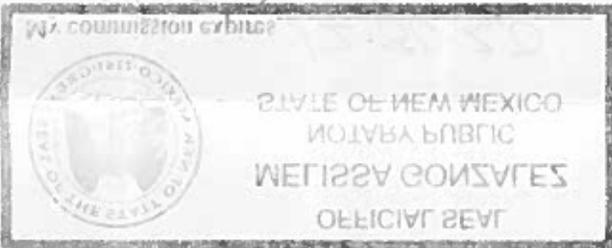
GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 18th day of June 2017.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

David R. Catanach, Director

Legal No. 74024 published in The Daily Times on June 18, 2017.



Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, May 10, 2017 4:22 PM
To: 'Philana Thompson'
Subject: RE: Agua Moss, LLC UIC Class I (Non-Hazardous) Disposal Well in San Juan County: Affidavits Proof of Public Notice Farmington Daily Times Sunday 5/7/2017

Philana:

Received. Thank you.

Mr. Carl J. Chavez, CHMM (#13099)
New Mexico Oil Conservation Division
Energy Minerals and Natural Resources Department
1220 South St Francis Drive
Santa Fe, New Mexico 87505
Ph. (505) 476-3490
E-mail: CarlJ.Chavez@state.nm.us

“Why not prevent pollution, minimize waste to reduce operating costs, reuse or recycle, and move forward with the rest of the Nation?” (To see how, go to: <http://www.emnrd.state.nm.us/OCD> and see “Publications”)

From: Philana Thompson [mailto:pthompson@merrion.bz]
Sent: Wednesday, May 10, 2017 3:56 PM
To: Chavez, Carl J, EMNRD <CarlJ.Chavez@state.nm.us>
Subject: Fwd: Affidavits and Tearsheet

Please see the attached notification in the Daily Times ran on 5/7/2017

----- Forwarded message -----

From: Padilla, Levi <lpadilla@daily-times.com>
Date: Wed, May 10, 2017 at 3:53 PM
Subject: Affidavits and Tearsheet
To: Philana Thompson <pthompson@merrion.bz>

Hi Philana,

Attached are your affidavits and tearsheet, please let me know if you need anything else. Have a great day ☺

Thanks,
Levi

--

Philana Thompson
Regulatory Compliance
Merrion Oil & Gas Corp
cell 505-486-1171
fax 505-324-5300

AFFIDAVIT OF PUBLICATION

COPY OF PUBLICATION

Ad No. 1188004

STATE OF NEW MEXICO

County of San Juan:

SAMMY LOPEZ, being duly sworn says: That he IS the PRESIDENT of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the State of New Mexico for publication and appeared in the Internet at The Daily Times web site on the following day(s):

Sunday, May 7, 2017

And the cost of the publication is \$253.26



SAMMY LOPEZ appeared before me, whom I know personally to be the person who signed the above document on the 10th of May, 2017.





[signature of Notary]
Melissa Gonzalez NOTARY PUBLIC

AFFIDAVIT OF PUBLICATION

COPY OF PUBLICATION

Ad No. 1188006

STATE OF NEW MEXICO

County of San Juan:

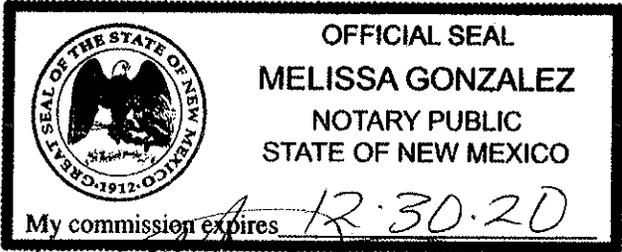
SAMMY LOPEZ, being duly sworn says: That he IS the PRESIDENT of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the State of New Mexico for publication and appeared in the Internet at The Daily Times web site on the following day(s):

Sunday, May 7, 2017

And the cost of the publication is \$253.26



SAMMY LOPEZ appeared before me, whom I know personally to be the person who signed the above document on the 10th of May, 2017.





[signature of Notary]
Melissa Gonzalez **NOTARY PUBLIC**

I am an American
We are One Nation



KATIE KLANN/NAPLES DAILY NEWS

Dick Munro

Location: Naples, Florida

Age: 86

Profession: Retired chairman and CEO of Time Inc.; education activist

Mission: Empower children to reach their full potential.

'RETIRED' CEO TURNS TO EDUCATION

'The most rewarding thing I've done': Dick Munro, a youth teacher and mentor

ANNIKA HAMMERSCHLAG

USA TODAY NETWORK

Each week, this series will introduce you to an exceptional American who unites, rather than divides, our communities. To read more about the American profiled here and more average Americans doing exceptional things, visit onenation.usatoday.com.

NAPLES, Florida - When asked about the three Purple Hearts he earned while serving in the Korean War, Dick Munro responds like he does to any question about his accomplishments: with absurd modesty.

"It doesn't mean I'm a hero — it means I didn't duck," he laughed.

Munro, 86, is the former chairman and CEO of Time Warner Inc., which later became Time Warner, and a current education activist in Naples, Florida.

He began his career at Time Inc. as a trainee and retired 40 years later as top dog.

"I just went to work every day. It just happened," he said.

After Munro "retired" from Time Inc., he took to sitting on corporate boards — 20 of them, he counts. They include prestigious companies, foundations and universities such as Genentech, IBM and Columbia. And that 25-year stint as director of the United Negro College Fund.

When Munro moved to Naples, a resort town known for its white-sand beaches and exclusive golf courses, he had no intention of relapsing into his philanthropic addictions. But then he peeked behind the luxury condos and five-star restaurants.

"I had no idea that just a stone's throw away there were people hanging on by their fingernails," Munro said.

Thirty miles northeast of Naples lies Immokalee, home to a community of Latino farmworkers. Many live in trailers. Others cram into one-bedroom bungalows with their entire family.

"It was mind-boggling, seeing how these poor people lived. There's an underbelly to this county that most people don't know about," he said.

Munro began teaching at a Head Start program at a low-income school and joined a college scholarship selection committee for underprivileged students. He took on two mentees from Immokalee and helped them with college applications. One, the son of tomato pickers, now interns at a cyber security firm.

Working with Immokalee children, he said, is "the most rewarding thing I've done. Their smiles will just melt you."

Q&A WITH DICK MUNRO

What does it mean to you to be an American?

It means that I was fortunate to be born in a country the world envies. A country whose democratic principles have had an enormous positive impact on the world almost since its founding. We have set an example of civility, generosity, diplomacy and when required, power. With all that comes the responsibility of leadership. And we should cherish that responsibility.

Yet, despite all of our enormous resources, we are becoming a nation divided, angry and lacking the civility we once knew. Issues of income inequality, racism and the treatment of immigrants are disturbing. But, I am an optimist. There will always be more good guys than bad guys.

What moment touched and motivated you to launch this effort?

My first exposure to poverty occurred years ago when I was involved with Save The Children. I visited Indian Reservations in the West, the Mississippi Delta and parts of Appalachia. It was an eye-opener, to say the least. I never realized parts of the USA were similar to third-world countries. Here in Naples, my first visit to Immokalee was equally shocking. This is a remarkable community of good, hard-working farmworkers, many of whom live in severe poverty.

What gives you hope or what concerns you?

Public schools give me hope. The privilege to be exposed to students, teachers and administrators gives me hope. I wish more citizens could have the opportunity to visit classrooms to observe the learning process in action, to observe the professionalism and passion the great majority of teachers bring to their classrooms every day.

What do you hope to accomplish through your efforts?

There will never be enough volunteers. Naples is made up of extremely generous and civic-minded people, but there is still a whole bunch of them who don't become involved. This is unfortunate for both them and our community. Seniors have lots of skills to contribute. Many simply have not been exposed to the challenges we face. You really do get more out of volunteering than you put in.

ONE NATION

NOMINATE AN AMERICAN

Who are your American heroes? Share stories and nominees at onenation.usatoday.com or via email to onenation@usatoday.com or post a video submission to Twitter, Facebook or Instagram (no longer than 2 minutes, please) with the hashtags #AmAnAmerican #WeAreOneNation.

Older-worker rate in the country highest since 1962

STAN CHOE
ASSOCIATED PRESS

NEW YORK - Retire by your mid-60s? How 1960s.

More Americans 65 and over are still punching the clock, and the last time the percentage was this high was when John F. Kennedy was in the White House.

Last month, 19 percent of Americans 65 and over were still working, according to government data released Friday. That's the highest rate since 1962, and it caps a long trend higher since the figure bottomed out at 10 percent

in 1985. As America grows older and as life expectancy gets longer, some workers keep heading to the office because they like it and still feel engaged. But many others are continuing to work for a simpler, darker reason: They can't afford not to.

More than a quarter of workers 55 or older say they have less than \$10,000 in savings and investments, according to the latest retirement confidence survey by the Employee Benefit Research Institute. Perhaps because of slim nest eggs, nearly a third of workers in that age group say they expect to work until at

least 70, if they retire at all.

Older workers still heading for jobs might also be the lucky ones. Many older Americans would like to work but say they can't find a job, whether because they lack the skills or because employers are looking for someone younger. The unemployment rate for workers 65 and over was 3.7 percent last month. That's a tick higher than its median over the past 30 years, though it's down from earlier this year.

The numbers might rise still higher, critics say. This past week Congress voted to overturn a

federal rule designed to help states give more workers access to retirement-savings plans.

Several states have been pushing to create their own plans to get more workers into plans like a 401(k) that automatically deduct savings from each paycheck. Low-income workers tend to have much less access to savings plans through their jobs. Republicans and players in the investment industry, though, argue that the state-run plans could end up being much more expensive than imagined and would water down safeguards in place to protect investors.

Aviso de publicación Propuesta

El aviso se da por este medio en conformidad a regulaciones de la Comisión del control de calidad del agua de New México, el uso siguiente del plan de la descarga se ha sometido al director de la división de la conservación de Petróleo, 1220 impulsión del sur del St. Frances, Santa Fe, nanómetro 87505, teléfono 505-476-3440.

Agua Moss, LLC, PO Box 600, Farmington, NM 87499 ha presentado una solicitud de la renovación del plan de la descarga para su disposición #1 (Permiso de UIC-CLI-005). El pozo está ubicado en la Unidad E Carta, la Sección 2, T29N, R12W, NMPM, Condado de San Juan, NM. El pozo / instalación es de aproximadamente 6 kilómetros al suroeste de NM, en la intersección de County Road 3500 y 3773. Este desecho comercial yacimiento petrolífero, no es un desecho peligroso del campo de petróleo en la formación del punto de formación de 4350-4460 metros en una tarifa diaria que no exceda 4000 barriles y una presión de inyección máxima de 2400 psi. Los sólidos disueltos totales (TDS) concentración del fluido inyectado típicamente es de aproximadamente 24.000 miligramos por litro (mg / l). La concentración de TDS del agua nativa con el intervalo de inyección y más propensos a ser afectados por esta descarga es de 14.000 mg / l. El agua subterránea más que pueda verse afectado por la descarga accidental está a una profundidad de 75-120 metros y tiene un TDS de aproximadamente 450 mg / l. El plan de la descarga trata la construcción, la operación y la supervisión del pozo y de las instalaciones superficiales asociadas y proporciona un plan de contingencia en caso de derramamientos accidentales en caso de derramamientos accidentales, de escapes y de otras descargas accidentales a la superficie de la tierra.

Cualquier persona interesada puede obtener la información adicional de la división de la conservación de petróleo (OCD) y debe presentar comentarios escritos al director de OCD en la dirección antes mencionada. Cualquier persona interesada puede también pedir para ser colocado en un correo y/o una lista de facilidades-específicas del email para los avisos futuros notificando el OCD Oficina ambiental en 1220 la impulsión del sur del St. Frances, Santa Fe, teléfono 505-476-3440 del nanómetro 87505. La solicitud del permiso de la descarga y el permiso de la descarga del proyecto se pueden ver en la dirección antes mencionada entre 8:00 am y 4:00 de la tarde lunes-viernes. El permiso de la descarga del proyecto se puede también ver en el Web site de <http://emnr.dnm.usocd/TDC> web. Antes de treinta (30) días después de la fecha de la publicación de este aviso durante la cual los comentarios pueden ser sometidos y de cualquier persona interesada puede solicitar una vista pública. Los solicitudes de una vista pública dispondrán las razones por las que una audiencia debe ser llevada a cabo. Una audiencia será llevada a cabo si el director de OCD determina que es de interés público significativo. Si no se lleva a cabo ninguna audiencia pública, el director de OCD aprobará o desaprobará el permiso propuesto basado en la información disponible. Si se lleva a cabo una audiencia pública, el director de OCD aprobará o desaprobará el permiso propuesto basado en la información en el permiso y la información presentada en la audiencia.

Para obtener más información sobre esta solicitud en español, sirvase comunicarse por favor: New Mexico Energy, Minerals and Natural Resources Department (Depto. Del Energía, Minerals y Recursos Naturales de Nuevo México), Oil Conservation Division (Depto. Conservación Del Petróleo), 1220 South St. Francis Drive, Santa Fe, New México (Contacto: Laura Tulk, 575-748-1283). TX-0001188004-01

Notice of Publication Proposed

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission regulations, the following discharge renewal plan application has been submitted to the Director of the Oil Conservation Division, 1220 South St. Frances Drive, Santa Fe, NM 87505, telephone 505-476-3440.

Agua Moss, LLC, Philana Thompson, Regulatory Compliance Specialist, 505-486-1171 PO Box 600, Farmington, NM 87499 has submitted a Discharge plan renewal application for their UIC (Underground Injection Control) Class I (Non-Hazardous) Sunco Disposal Well #1 (Permit UICI-005) API 30-045-28653. The well is located 1595 FNL & 1005 FWL, Unit Letter E, Section 2, T29N, R12W, (LAT. 36.75737 & LONG. -108.07279) NMPM, San Juan County, NM. The well/facility is approximately 6 miles southwest of Aztec, NM at the intersection of County Road 3500 and 3773. This commercial disposal well injects oil field exempt and non-exempt, non-hazardous oil field waste water into the Point Lookout formation from 4350-4460 feet at a daily rate not to exceed 4000 bbls per day and at a maximum surface injection pressure of 2400 psi. The total dissolved solids (TDS) concentration of the typically injected fluid is approximately 31,000 milligrams/liter (mg/l). The TDS concentration of the water native to the injection interval and most likely to be affected by this discharge is 14,000 mg/l. Ground water most likely to be affected by accidental discharge is at a depth from 75-120 feet and has a TDS of approximately 450 mg/l. The discharge plan addresses construction, operation and monitoring of the well and associated surface facilities and provides a contingency plan in the event of accidental spills in the event of accidental spills, leaks and other accidental discharges to the surface of the ground.

Any interested person may obtain further information from the Oil Conservation Division (OCD) and must submit written comments to the OCD Director at the address above. Any interested person may also request to be placed on a facility-specific mailing and/or email list for future notices by notifying the OCD Environmental Bureau at 1220 South St. Frances Drive, Santa Fe, NM 87505 telephone 505-476-3440. The discharge permit application and draft discharge permit may be viewed at the above address between 8 AM and 4 PM Monday – Friday. The draft discharge permit may also be viewed at the OCD web site <http://www.emnr.dnm.usocd/>. Prior to thirty (30) days after the date of publication of this notice during which comments may be submitted and any interested person may request a public hearing. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the OCD Director determines there is a significant public interest.

Para obtener más información sobre esta solicitud en español, sirvase comunicarse por favor: New Mexico Energy, Minerals and Natural Resources Department (Depto. Del Energía, Minerals y Recursos Naturales de Nuevo México), Oil Conservation Division (Depto. Conservación Del Petróleo), 1220 South St. Francis Drive, Santa Fe, New México (Contacto: Laura Tulk, 575-748-1283). If no public hearing is held, the OCD Director will approve or disapprove the proposed permit based on information available. If a public hearing is held, the OCD Director will approve or disapprove the proposed permit based on information in the permit and information submitted at the hearing. TX-0001188004-01

WILLOWS
CAFE • BISTRO

Enjoy Our Special Buffets!

CINCO DE MAYO
MEXICAN BUFFET
FRIDAY
MAY 5
5PM-9PM
\$16.95 per person

Mother's Day Buffet
SUNDAY
MAY 14
8:30AM-3:30PM
\$19.95 per person

Sky Ute Casino
RESORT
Owned & operated by the Southern Ute Indian Tribe

SKYUTECASINO.COM
888.842.4180
IGNACIO, COLORADO

For additional information, call 970.563.7777. Menu items are subject to change. Prices do not include tax or gratuity. All Bear Club discounts apply.

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

Ken McQueen
Cabinet Secretary

Matthias Sayer
Deputy Cabinet Secretary

David R. Catanach, Division Director
Oil Conservation Division



MAY 5, 2017

CERTIFIED MAIL
RETURN RECEIPT NO: 7913 8138

Ms. Philana Thompson
Agua Moss, LLC
P.O. Box 600
Farmington, New Mexico 87499

Re: Discharge Permit Renewal (UICI-005)
Agua Moss, LLC
UIC Class I (Non-hazardous) Disposal Well
Sunco Disposal Well No. 1 (WDW-1) - API No. 30-045-28653
UL: E, Section 2 Township 29 North, Range 12 West, 1,595 FNL 1,005 FWL
(Lat. 36.75737, Long. -108.07279) NMPM, San Juan County, New Mexico

The New Mexico Oil Conservation Division (OCD) is in receipt of Agua Moss, LLC's discharge permit renewal application for WDW-1 a UIC Class I non-hazardous waste injection well. After review, OCD has determined that your application is "*administratively complete*" pursuant to New Mexico Water Quality Control Commission Regulations (20.6.2.3108 NMAC).

Agua Moss, LLC must now provide public notice and demonstrate that it has done so to OCD in a timely manner. OCD will also provide notice to various governmental groups. Depending upon the level of public interest, a hearing may be scheduled on this matter. Regardless, OCD will continue our review of the application and may request additional technical information.

If you have any questions, please do not hesitate to contact me by phone at (505) 476-3490, mail at the address below, or email at CarlJ.Chavez@state.nm.us. On behalf of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit review process.

Sincerely,

Carl J. Chávez
Environmental Engineer

cc: OCD Aztec Office

A-PLUS WELL SERVICE

P.O. Box 1979, Farmington, NM 87499
(505) 325-2627



Date: 04/11/2017

MERRION OIL & GAS CORP

610 Reilly Ave
Farmington, NM 87401
505-324-5335

Well: SUNCO Disposal #1

API: 30-045-28653

State & County: NM, San Juan

Billing Region: San Juan

Service: P & A

Cost Estimate

Rental Equipment:

9420 Water Storage Tank, 210, 300 or 400 barrel capacity	4.00	40 per day	160.00
9460 Medium Steel Waste Fluid Pit, 85 bbl. capacity	8.00	65 per day	520.00
9520 Certified Rig Base Beam, 6' X 40'	4.00	100 per day	400.00
9660 Portable Toilet rental	4.00	25 per day	100.00
9680 Geronimo tie down pad, rental	4.00	25 per day	100.00
9720 Stripping Rubbers, Supreme: 2-3/8",	1.00	150 each	150.00
9740 Pipe Wiper Rubber: 2-3/8",	1.00	27 each	27.00
9900 Cut Off Operator, pneumatic saw & welding work	5.00	68 per hr	340.00
9920 Air Compressor rental	1.00	125 per job	125.00
9940 Pneumatic Powered Saw	1.00	100 per job	100.00
9960 Jack Hammer	1.00	100 per job	100.00
9980 Blade for pneumatic saw	1.00	25 each	25.00

Subtotal \$2,147.00

Reclamation (3rd Party Vendor)

Surface reclamation & Tank cleaning/removal

Subtotal \$8,000.00

Total \$38,314.20

NM Sales Tax \$2,921.46

Grand Total \$41,235.66

PLUG AND ABANDONMENT CLOSURE PLAN

April 11, 2017

Sunco No. SWD

Flora Vist Mesaverde

1595' FNL / 1005' FWL Section 2, T-29-N, R-12-W

San Juan County, NM, API #30-045-28653

Page 1 of 1

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. This project requires a NMOCD C-144 CLEZ Closed-Loop System Permit for the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
2. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
3. Rods: Yes___, No___X___, Unknown_____.
Tubing: Yes___X___, No___, Unknown_____, Size___2.875"___, Length___4282'___.
Packer: Yes___X___, No___, Unknown___ Type Arrow XL – W Retrievable Seal Bore at 4282'

If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.

This well may require a CBL log to determine TOC. Plugs will be modified if necessary based on CBL log.

4. **Plug #1 (Mesaverde interval, 4300' – 3996')**: Round trip 5.5" gauge ring or scraper. TIH and set 5.5" cement retainer at 4300'. Pressure test tubing to 1000#. Load casing with water and circulate well clean. Pressure test casing to 1000#. *If casing does not test, then spot or tag subsequent plugs as appropriate.* Mix 41 sxs cement and spot a balanced plug inside casing above the CR to isolate the Mesaverde interval. PUH
6. **Plug #2 (Chacra top, 3542' – 3442')**: Mix 17 sxs Class B cement and spot a balanced plug inside casing to cover the Chacra top. PUH.
8. **Plug #3 (Pictured Cliffs and Fruitland tops, 2520' – 2034')**: Mix 61 sxs Class B cement and spot a balanced plug inside casing to cover the PC and Fruitland tops. TOH and LD tubing.
9. **Plug #4 (Kirtland and Ojo Alamo tops, 8-5/8" casing shoe and surface, 414' – 0')**: Attempt to pressure test the bradenhead annulus to 300 PSI; note the volume to load. If the BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 50 sxs cement and spot a balanced plug from 414' to surface, circulate good cement out casing valve. TOH and LD tubing. If the BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the casing from 414' and the annulus from the squeeze holes to surface. Shut in well and WOC.

10. ND BOP and cut off wellhead below surface casing. Install P&A marker to comply with regulations. RD, MOL, and cut off anchors.

SUNCO Disposal #1

Proposed P&A

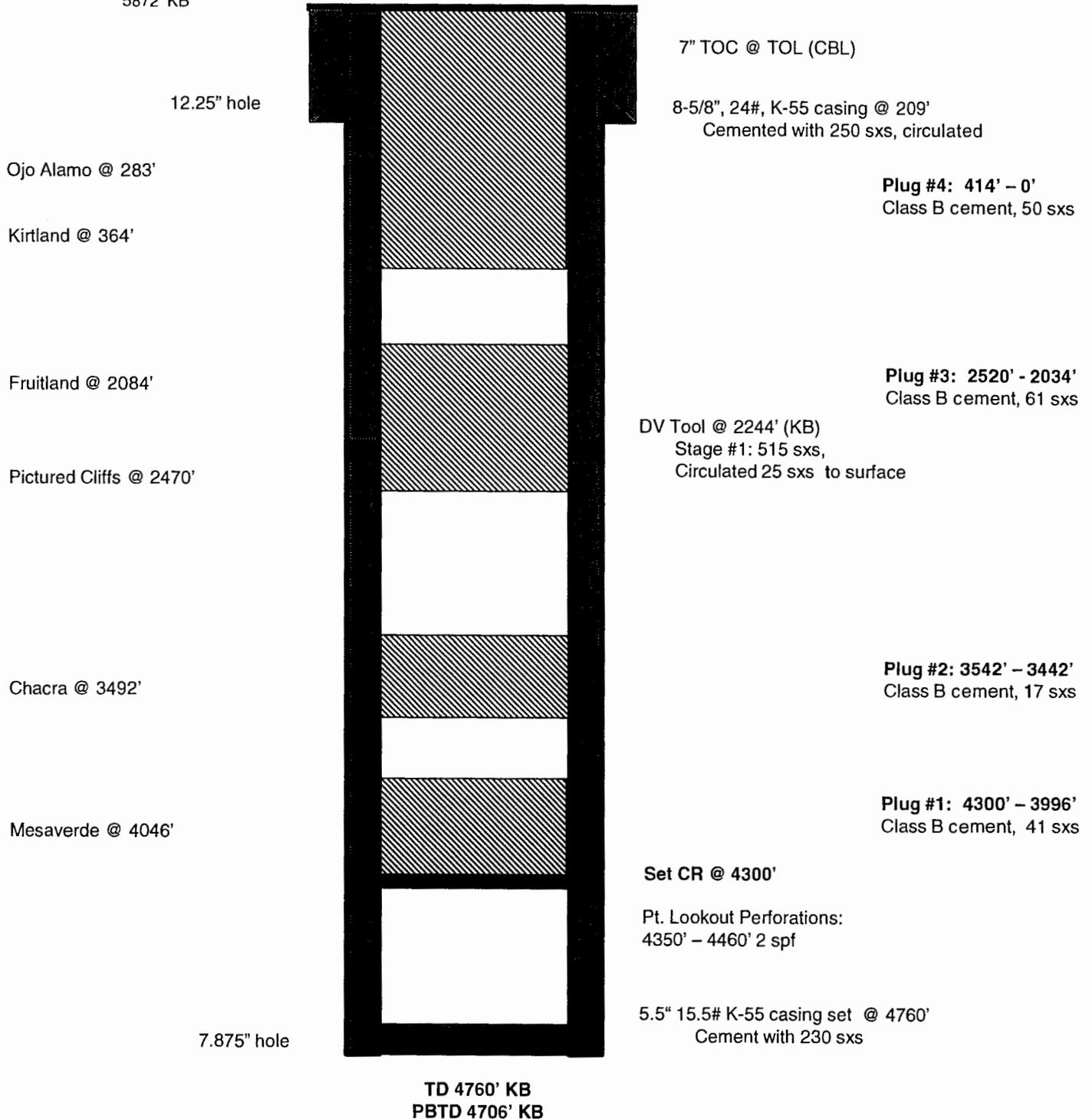
Flora Visa Mesaverde

1595' FNL / 1005' FWL Section 2, T-29-N, R-12-W

San Juan County, NM, / API #30-045-28653

Today's Date: 4/11/17
Completed: 2/24/92
Elev: 5859' GI
5872' KB

Lat: / Long:



AGUA MOSS, LLC

PO BOX 600
 FARMINGTON, NM 87499
 (505) 334-5541

FOUR CORNERS
 COMMUNITY BANK
 FARMINGTON, NM 87402
 95-672/1022

11532



DATE

4/11/2017

AMOUNT

\$100.00

Security features. Details on back.

PAY TO THE ORDER OF
 One Hundred Dollars and 00 Cents

WATER QUALITY MANAGEMENT FUND
 1220 SOUTH ST FRANCIS DRIVE

SANTA FE NM 87505

AUTHORIZED SIGNATURE



AGUA MOSS, LLC

11532

Agua Moss VENDOR ID		NAME	PAYMENT NUMBER	CHECK DATE				11532
WATQTY87505		WATER QUALITY MANAGEMENT FUND	00000000000007132	4/11/2017				
OUR VOUCHER NUMBER	YOUR VOUCHER NUMBER	DATE	AMOUNT	AMOUNT PAID	DISCOUNT	WRITE-OFF	NET	
00000000000010495	#1 PERMIT RENEWAL	4/7/2017	\$100.00	\$100.00	\$0.00	\$0.00	\$100.00	
			\$100.00	\$100.00	\$0.00	\$0.00	\$100.00	

COMMENT

RECEIVED:	REVIEWER:	TYPE:	APP NO:
-----------	-----------	-------	---------

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: <u>AGUA MOSS LLC</u>	OGRID Number: <u>247130</u>
Well Name: <u>SUNCO DISPOSAL #1</u>	API: <u>30-045-28653</u>
Pool: <u>SWD-MV</u>	Pool Code: <u>96160</u>

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
- A. Location – Spacing Unit – Simultaneous Dedication
 NSL NSP_(PROJECT AREA) NSP_(PRORATION UNIT) SD
- B. Check one only for [I] or [II]
- [I] Commingling – Storage – Measurement
 DHC CTB PLC PC OLS OLM
- [II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
- A. Offset operators or lease holders
 B. Royalty, overriding royalty owners, revenue owners
 C. Application requires published notice
 D. Notification and/or concurrent approval by SLO
 E. Notification and/or concurrent approval by BLM
 F. Surface owner
 G. For all of the above, proof of notification or publication is attached, and/or,
 H. No notice required

FOR OCD ONLY	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

PHILANA THOMPSON

Print or Type Name

 Signature

4/6/2017
 Date

505-486-1171
 Phone Number

pthompson@mcrrion.bz
 e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance xx-renewal Disposal _____ Storage
Application qualifies for administrative approval? xx Yes _____ No
- II. OPERATOR: Agua Moss, LLC.
ADDRESS: PO Box 600 Farmington, NM 87499
CONTACT PARTY: Philana Thompson PHONE: 505-486-1171
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes xx No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Philana Thompson TITLE: Regulatory Compliance Specialist
SIGNATURE:  DATE: 4-6-17
E-MAIL ADDRESS: pthompson@merrion.bz
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: Original permit dated 8/26/1996, 2002, 2007 & 2012

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

OPERATOR: Agua Moss, LLC

WELL NAME & NUMBER: Sunco Disposal Well #1

WELL LOCATION: <u>1595 FNL & 1005 FWL</u>	<u>E</u>	<u>2</u>	<u>29N</u>	<u>12W</u>
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: <u>12 1/4</u>	Casing Size: <u>8.625</u>
Cemented with: <u>150</u> sx.	or _____ ft ³
Top of Cement: <u>0</u>	Method Determined: <u>circ</u>

Intermediate Casing

Hole Size: _____	Casing Size: _____
Cemented with: _____ sx.	or _____ ft ³
Top of Cement: _____	Method Determined: _____

Production Casing

Hole Size: _____	Casing Size: <u>5.5</u>
Cemented with: <u>1010</u> sx.	or _____ ft ³
Top of Cement: <u>0</u>	Method Determined: <u>circ</u>
Total Depth: <u>4760</u>	

Injection Interval

perf 4350' feet to 4460'

See attached Wellbore diagram

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" Lining Material: _____

Type of Packer: Arrow XL retrievable seal bore

Packer Setting Depth: 4282'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____ Yes No

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Point Lookout Sandstone of the MV group

3. Name of Field or Pool (if applicable): Point Lookout

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. _____

No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

The depth of the next higher producing zone is the pictured cliffs at 2285',
the lower is the top of the dakota at 6550'

Agua Moss, LLC

Wellbore Schematic

Sunco No. 1, SWD

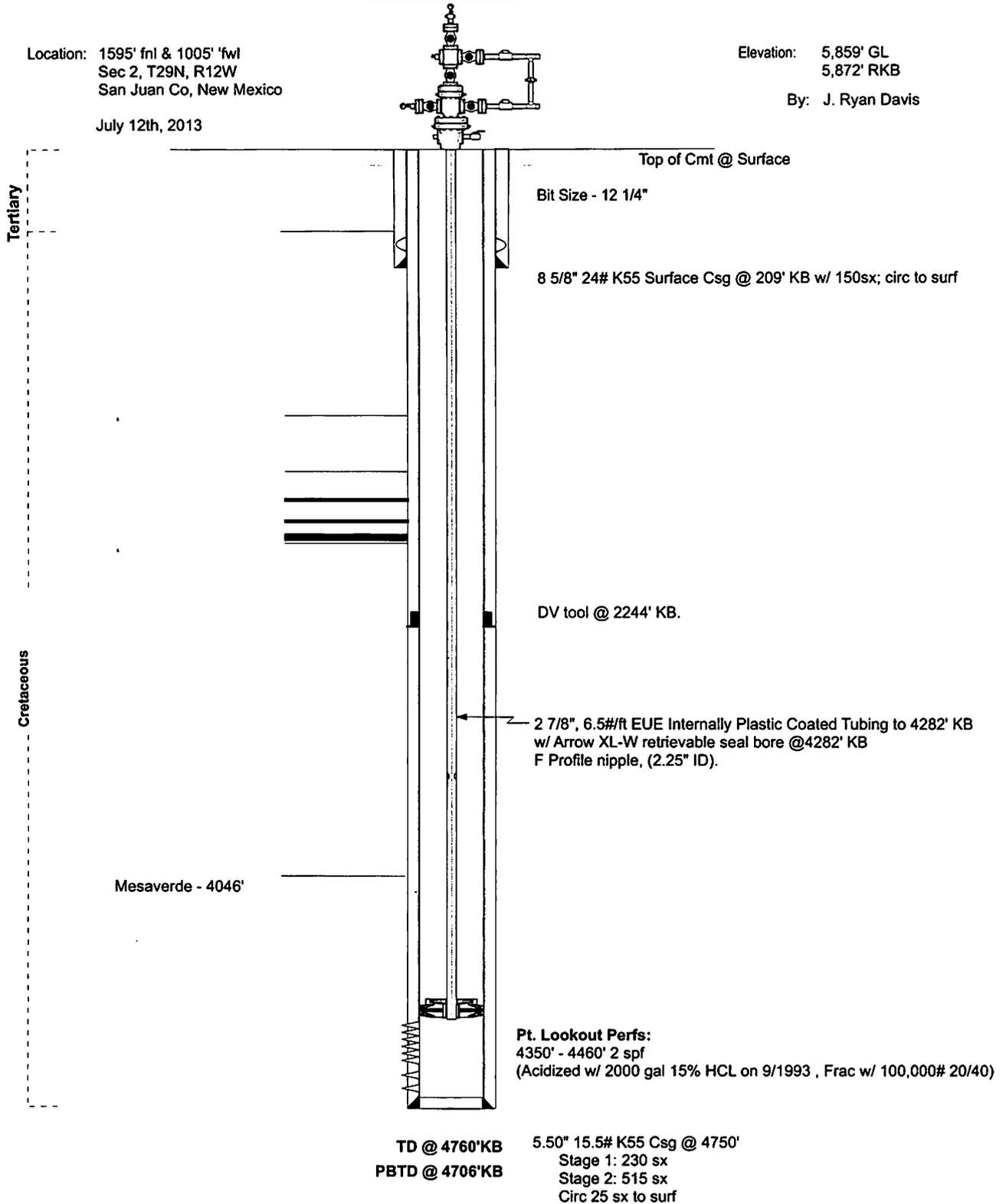
Current Wellbore Configuration

Location: 1595' fnl & 1005' 'fwl
Sec 2, T29N, R12W
San Juan Co, New Mexico

July 12th, 2013

Elevation: 5,859' GL
5,872' RKB

By: J. Ryan Davis



Energy, Minerals and Natural Resources Department
Oil Conservation Division
Surety Bond For Waste Management Facilities
 (File with Oil Conservation Division, 1220 S. Saint Francis, Santa Fe, New Mexico 87505)

BOND NO. RLB0014210
(For Surety Company Use)

KNOW ALL MEN BY THESE PRESENTS:

That Agua Moss, LLC (an individual, partnership, or a corporation organized in the State of New Mexico, with its principal office in the City of Farmington, State of New Mexico, and authorized to do business in the State of New Mexico), as PRINCIPAL, and RLI Insurance Company, a corporation organized and existing under the laws of the State of Illinois and authorized to do business in the State of New Mexico as SURETY, are held firmly bound unto the State of New Mexico, for the use and benefit of the Oil Conservation Division of the Energy, Minerals and Natural Resources Department (the "Division") pursuant to NMSA 1978, Section 70-2-12 as amended, in the sum of One Hundred Seventy-Six Thousand Two Hundred--(\$ 176,200.00-----) Dollars for the payment of which PRINCIPAL and SURETY hereby bind themselves, their successors and assigns, jointly and severally.

The conditions of this obligation are such that:

WHEREAS, the above PRINCIPAL has heretofore or may hereafter enter into the collection, disposal, evaporation, remediation, reclamation, treatment or storage of produced water, drilling fluids, drill cuttings, completion fluids, contaminated soils, BS&W, tank bottoms, waste oil and/or other oil field related waste in Section 2, Township 29N, Range 12W, NMPM, San Juan County, New Mexico.

NOW, THEREFORE, this \$ 176,200.00----- performance bond is conditioned upon substantial compliance with all applicable statutes of the State of New Mexico and all rules and orders of the Oil Conservation Commission and the Division. Upon clean-up of the facility site to standards of the Division, the Division will release this bond; otherwise, the principal amount of the bond is to be forfeited to the State of New Mexico.

Signed and sealed this 26th day of January, 2 012.

Agua Moss, LLC
 PRINCIPAL
 PO Box 600
Farmington, NM 87499
 Mailing Address

By [Signature] Manager/Owner
 Signature Title

RLI Insurance Company
 SURETY
 8 Greenway Plaza, Suite 400
 Houston, TX 77046
 Mailing Address

By [Signature]
 Attorney-in-Fact Jason T. Kilpatrick

Note: If Principal is a corporation, affix corporate seal here.

Note: If corporate surety, affix corporate seal here.

791

ACKNOWLEDGMENT FORM FOR NATURAL PERSONS

STATE OF _____)
)SS.
COUNTY OF _____)

The foregoing instrument was acknowledged before me this _____ day of _____, 2____, by

My commission expires:

Date Notary Public

ACKNOWLEDGMENT FORM FOR A CORPORATION, INCORPORATED ASSOCIATION OR PARTNERSHIP

STATE OF New Mexico)
)SS.
COUNTY OF San Juan)

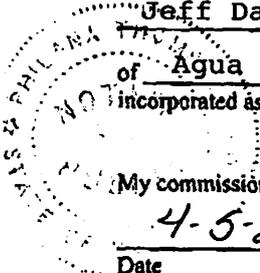
The foregoing instrument was acknowledged before me this 26th day of January, 2012, by

Jeff Davis as (title) Manager/Owner
of Agua Moss, LLC, a corporation,
incorporated association, or partnership.

My commission expires:

4-5-2013
Date

Notary Public *Phelma Thompson*





RLB0014210

RLI Surety
A division of RLI Insurance Company

POWER OF ATTORNEY

RLI Insurance Company

Know All Men by These Presents:

That the RLI INSURANCE COMPANY, a corporation organized and existing under the laws of the State of Illinois, and authorized and licensed to do business in all states and the District of Columbia does hereby make, constitute and appoint: JASON T. KILPATRICK in the City of HOUSTON, State of TEXAS, as Attorney-in-Fact, with full power and authority hereby conferred upon him to sign, execute, acknowledge and deliver for and on its behalf as Surety and as its act and deed, all of the following classes of documents to-wit:

\$176,200.00

Indemnity, Surety and Undertakings that may be desired by contract, or may be given in any action or proceeding in any court of law or equity; policies indemnifying employers against loss or damage caused by the misconduct of their employees; official, bail and surety and fidelity bonds. Indemnity in all cases where indemnity may be lawfully given; and with full power and authority to execute consents and waivers to modify or change or extend any bond or document executed for this Company, and to compromise and settle any and all claims or demands made or existing against said Company.

The RLI INSURANCE COMPANY further certifies that the following is a true and exact copy of a Resolution adopted by the Board of Directors of RLI Insurance Company, and now in force to-wit:

"All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys-in-Fact or Agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers-of-Attorney, or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile."

(Blue shaded areas above indicate authenticity)

IN WITNESS WHEREOF, the RLI Insurance Company has caused these presents to be executed by its PRESIDENT with its corporate seal affixed this

ATTEST:

Jean M. Stephenson
CORPORATE SECRETARY



RLI INSURANCE COMPANY

Michael J. Stone
PRESIDENT

State of Illinois)
) SS
County of Peoria)

On this 26 day of Jan. 2012 before me, a Notary Public, personally appeared Michael J. Stone and Jean M. Stephenson, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as President and Corporate Secretary, respectively, of the said RLI INSURANCE COMPANY, and acknowledged said instrument to be the voluntary act and deed of said corporation.

Jacqueline M. Bockler
Notary Public



STATE OF NEW MEXICO
OIL CONSERVATION DIVISION (OCD)
WATER QUALITY CONTROL COMMISSION (WQCC) OCD DISCHARGE PERMIT BOND

BOND NO. RLB0014211
OCD PERMIT 247130
AMOUNT OF BOND \$95,000.00
COUNTY San Juan

File with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505

KNOW ALL MEN BY THESE PRESENTS:

That Agua Moss, LLC (an individual - if dba must read - Example: John Doe dba ABC Services) (a general partnership) (a corporation), (limited liability company) (limited partnership) organized in the State of New Mexico, and authorized to do business in the State of New Mexico, as PRINCIPAL, and RLI Insurance Company, a corporation organized and existing under the laws of the State of Illinois and authorized to do business in the State of New Mexico, as SURETY, are firmly bound unto the State of New Mexico, for the use and benefit of the Oil Conservation Division of the Energy, Minerals and Natural Resources Department (or successor agency) (the DIVISION), pursuant to 20.6.2.5210.B(17) NMAC, 20.6.2.5006 NMAC, and 20.6.2.3107.A(11) NMAC, in the sum of \$95,000.00-----, for the payment of which the PRINCIPAL and SURETY hereby bind themselves, their successors and assigns, jointly and severally, firmly by these presents.

The conditions of this obligation are such that:

WHEREAS, the PRINCIPAL does or may own or operate a "Facility" (identified by location only below) and/or one or more wells (identified by location(s) below) for the injection of fresh and non-fresh water, remediation fluids (i.e., Class I (NH) Disposal Well or Class V Pump & Treat Injection Well), oilfield exempt, non-exempt and/or geothermal produced fluid waste(s) into the subsurface for use in connection with oil, gas and/or geothermal activities, which well is classified as a Division Underground Injection Control Class I, III or V Injection Well pursuant to the 20.6.2.5002 et seq. NMAC, the identification and location(s) of said well(s) being:

Sunco Disposal #1 API No. 30-045-28653, located 1595 feet from the
(Name of Well)
North _____ (North/South) line and 1005 feet from the West _____ (East/West) line
of Section 2 Township 29N (North) (South), Range 12W (East) (West).
NMPM, and Latitude 36.75737 Longitude -108.07279 County San Juan, New Mexico.

NOW, THEREFORE, if the PRINCIPAL and SURETY or either of them, or their successors or assigns or any of them, shall: (a) cause said well(s) to be properly plugged and abandoned when no longer productive or useful for other beneficial purpose in accordance with the WQCC rules and/or orders of the DIVISION; and (b) take all measures necessary, as required by the DIVISION by OCD Permit No. UIC-CLI-005 pursuant to 20.6.2 and 20.6.4 NMAC, as such rules now exist or may hereafter be amended, to prevent contamination of ground water having 10,000 milligrams per liter (mg/l) or less concentration of total dissolved solids (TDS), including, but not limited to, surface and ground water restoration if applicable, and post-operational monitoring.

THEN AND IN THAT EVENT, this obligation shall be null and void; otherwise and in default of complete compliance with any and all of said obligations, the same shall remain in full force and effect.

Agua Moss, LLC
PRINCIPAL
PO Box 600 Farmington, NM 87499
Address
By [Signature]
Signature
Manager/Owner
Title

RLI Insurance Company
SURETY
8 Greenway Plaza, #400, Houston, TX 77046
Address
[Signature]
Attorney-in-Fact
Jason T. Kilpatrick

If PRINCIPAL is a corporation, affix
Corporate seal here

Corporate surety affix
Corporate seal here



RLI Surety
A division of RLI Insurance Company

RLB0014211

POWER OF ATTORNEY

RLI Insurance Company

Know All Men by These Presents:

That the RLI INSURANCE COMPANY, a corporation organized and existing under the laws of the State of Illinois, and authorized and licensed to do business in all states and the District of Columbia does hereby make, constitute and appoint: JASON T. KILPATRICK in the City of HOUSTON, State of TEXAS, as Attorney-in-Fact, with full power and authority hereby conferred upon him to sign, execute, acknowledge and deliver for and on its behalf as Surety and as its act and deed, all of the following classes of documents to-wit:

\$95,000.00

Indemnity, Surety and Undertakings that may be desired by contract, or may be given in any action or proceeding in any court of law or equity; policies indemnifying employers against loss or damage caused by the misconduct of their employees; official, bail and surety and fidelity bonds. Indemnity in all cases where indemnity may be lawfully given; and with full power and authority to execute consents and waivers to modify or change or extend any bond or document executed for this Company, and to compromise and settle any and all claims or demands made or existing against said Company.

The RLI INSURANCE COMPANY further certifies that the following is a true and exact copy of a Resolution adopted by the Board of Directors of RLI Insurance Company, and now in force to-wit:

"All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys-in-Fact or Agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers-of-Attorney, or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile."

(Blue shaded areas above indicate authenticity)

IN WITNESS WHEREOF, the RLI Insurance Company has caused these presents to be executed by its PRESIDENT with its corporate seal affixed this

ATTEST:

Jean M. Stephenson
CORPORATE SECRETARY



Michael J. Stone
PRESIDENT

State of Illinois)
County of Peoria) SS

On this 26th day of Jan. 2012 before me, a Notary Public, personally appeared Michael J. Stone and Jean M. Stephenson, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as President and Corporate Secretary, respectively, of the said RLI INSURANCE COMPANY, and acknowledged said instrument to be the voluntary act and deed of said corporation.

Jacqueline M. Bockler
Notary Public



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

**Renewal Application for the Sunco Disposal Well #1
Data obtained from original permits 1996, 2002, 2007**

**Agua Moss, LLC
PO Box 600
Farmington, NM 87499
Attn: Philana Thompson
Phone: 505-324-5336**

e

Discharge Permit Application for UIC-CLI005
Sunco Disposal Well #1
30-045-28653

VII. Discharge Operations

1. Proposed average and maximum daily rate and volume of fluids to be injected (based on historical data see attached reports VII)
 - a. Average Flow (gpm) 24
 - b. Maximum Flow (gpm) 98
 - c. Average Volume (bpd) 850
 - d. Maximum Volume (bpd) 3100
2. The Sunco Disposal #1 is a open system
3. Proposed average and maximum injection pressure (based on previously approved modification 1/17/2008 and historical data see attached reports VII)
 - a. Average injection pressure (psig) 1716
 - b. Maximum injection pressure permitted is **2400 psig**, historical 2250 psig
4. Water sources shall include oil & gas produced Class I non-hazardous RCRA exempt. See attachment VII for most recent analysis of injected fluids.
5. Injection zone does not produce oil and gas. A chemical analysis was provided from the McGrath #4 well in 1996. It had an estimated TDS of 17,180 mg/l.

VIII. Geologic data: see historical permitting 2012,2007,2002 & 1996

IX. Stimulation Program: NA

X. Logging and test data: see historical permitting 2012,2007,2002 & 1996

XI. Chemical Analysis: see historical permitting 2012,2007,2002 & 1996

XII. Agua Moss, LLC has examined available geological and engineering data and find no evidence of open faults or any other hydrological connection between the disposal zone and any underground resources of drinking water.

XIII. Proof of Notice:

1. Public Notice: See attached XIII, legal advertisement that will be submitted to the Farmington Daily Times, in English and Spanish, upon notification from NMOCD of administrative completeness of application.

Sunco Disposal #1

Summary of Operations

MODIFICATIONS AND TERMINATIONS:

Agua Moss, LLC shall notify the OCD Director and the OCD's Environmental Bureau of any Facility expansion, any injection increase above the approved pressure limit or volume limit specified in Permit Conditions, or process modification that would result in any significant modification in the discharge of water contaminants (see 20.6.2.3107C NMAC). The OCD Director may require the Agua Moss, LLC to submit a Discharge Permit modification application pursuant to 20.6.2.3109E NMAC and may modify or terminate a Discharge Permit pursuant to Sections 74-6-5(M) through (N) NMSA 1978. OCD may issue administrative amendments to the permit if the amendments do not qualify as a permit modification(s) under the regulations.

Facility Description:

- a) Located 1595 FNL & 1005 FWL (SW/4 NW/4) Sec 2, T29N, R12W
- b) TOPO (Attached Misc)
- c) Facility Layout (Google Earth Map & Photos Attached Misc)

Discharge plan (20.6.2.3106C NMAC):

- a) Quantity, quality and flow characteristics of the discharge:
 - Flow rate and volume of fluid injected at a daily rate of 2000 to 4000 bbls per day.
 - This disposal well injects non-exempt, non-hazardous oil field waste into the Point Lookout formation. The total dissolved solids concentration of the injection water is approximately 24,000 mg/l. The total dissolved solids concentration of the formation fluids is approximately 14,000 mg/l.
 - Injected oil field exempt/non-exempt non-hazardous wastes shall be injected into the Point Lookout formation. The formation interval is from 4380' to 4480', the injection interval is perforated from 4350' to 4460' with 2 spf and 220 holes.
 - The depth of the next higher producing zone is the pictured cliffs at 2285', the lower is the top of the Dakota at 6550'.
- b) Location of discharge and of any bodies of water, watercourses and ground water discharge sites within one mile of the outside perimeter of the discharge site, and existing or proposed wells to be used for monitoring:
 - No groundwater discharge sites have been drilled since the original permit that are within one mile of the existing location. Only one water well within 1 mile of this facility was drilled in Section 34, T30N, R12W in 1977 and was capped with a steel plate welded over the casing. It is not producing.
- c) Depth to and TDS concentration of the ground water most likely to be affected by the discharge:

- Ground water most likely to be affected by any accidental discharge is at a depth from 78 to 90 feet and has a total dissolved solids concentration of approximately 450 mg/l.
- d) Flooding potential of the site:
- The location is in Zone X; Areas of 1% annual chance of flooding with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance of flooding.
- e) Location and design of site and methods available for sampling, and for measurement or calculation of flow
- The casing-tubing annulus shall contain fluid and is equipped with a murphy pressure switch. They are plumbed such that the switches are connected to hoses rather than the tubing to prevent vibration issues. (6/1/10 modification) Monthly tests are logged and will be reported in the annual report.
 - Analysis of injected RCRA (non-hazardous) waste water will be conducted quarterly and reported annually. Exceedances of the RCRA Characteristically Hazardous Criteria, listed below, will be reported to the NMOCD within 24 hours after having knowledge of any such exceedence. All testing shall be in accordance with the current discharge permit and with compliance criterion for hazardous waste concentrations.
 - i. RCRA Characteristically Hazardous Waste Criterion or Parameters:
 1. Ignitability (defined by 40 CFR, Subpart C, Section 261.21)
 2. Corrosivity (defined by 40 CFR, Subpart C, Section 261.22)
 3. Reactivity (defined by 40 CFR, Subpart C, Section 261.23)
- f) The injection zone is the Point Lookout Sandstone of the mesa verde group. The Point Lookout is a light to medium gray, angular to subangular very fine grained, well cemented sandstone with laminations of light to dark gray carbonaceous shale. Well logs reviewed at the time of the original permit indicated a maximum porosity of 13 to 14% with an average of 10%. The average thickness of the injection interval is 100' and is at a depth of 4380' to 4480'. Underground water sources are the Nacimiento which is exposed at the surface and the Ojo Alamo which occurs from 500' to 700'. There are no known water sources immediately underlying the injection zone.

Current operating data:

a) Fluids and Pressures:

- Agua Moss will track on a quarterly basis its disposal, operation and well workovers. The minimum, maximum, average flow waste injection volumes (including total volumes) and annular pressures of waste (oil field exempt/non-exempt non-hazardous waste) injected will be recorded monthly and submitted to the NMOCD Santa Fe office on an annual basis.
- The casing-tubing annulus shall contain fluid and is equipped with a murphy pressure switch. They are plumbed such that the switches are connected to hoses rather than the tubing to prevent vibration. (6/1/10 modification) Monthly tests are logged and will be reported in the annual report.

- b) Contingency plans (see attached Spill & Release Procedures MISC:
- All spills will be reported pursuant to NMOCD Rule 19 Chapter 15 part 29.
 - Agua Moss will maintain spill cleanup equipment on site that will allow for swift response to any spills or leaks that could occur at the facility.
- c) MIT monitoring plans:
- Mechanical Integrity Test (MIT) will be performed annually before September 30th.
 - Agua Moss will pump up the annulus to 350 psig, put on a chart with 1000# range, with a one hour clock.
 - The chart recorder will be calibrated before test.
 - The pump cut-off switch will be checked
 - Bradenhead test will be performed
 - The NMOCD will be notified of the date of the test
- d) Fall Off Test:
- Shall be conducted on an annual basis and will follow OCD's NMOCD UIC Class I Well Fall-off test guidance when conducting a FOT. The results shall be submitted within 30 days of completion.
- e) Additional Fluid monitoring plans:
- Analysis of injected fluids will be submitted quarterly to the NMOCD as outlined in reporting procedures.
 - Continuous monitoring devices are utilized to provide a record of injection pressure, flow rate, flow volume, and pressure on the annulus between the tubing and the long string of casing.
- f) Inspection, Maintenance, Sampling and Reporting:
- The entire system is visually inspected at least six times each day. This inspection includes the unloading area, settling tanks, injection pump, well and all interconnecting piping. Pump and wellhead pressures and injection volumes are recorded and stored at the facility.
 - Analysis of injected fluids will be conducted on a quarterly basis and submitted no later than 45 days following the end of each quarter.
 - The following characteristics will be analyzed:
 - If waste is "oilfield non-exempt", the operator shall ensure that the generator waste has been satisfactorily tested and documented to be non-hazardous by "Characteristically Hazardous Waste Testing" for Ignitability, Corrosivity, and Reactivity) under 40 CFR 261 Subpart C sections 261.21 – 261.23, July 1, 1992;
 - If waste is "oilfield exempt", the operator shall ensure that the generator waste has been satisfactorily documented to be oilfield exempt waste before accepting waste for disposal and documentation on a C-138 Form or equivalent for record keeping. There is no hazardous waste testing requirement for oilfield exempt wastes.
 - If oilfield non-exempt waste is mixed with oilfield exempt waste at the facility, the operator shall ensure that the waste has been satisfactorily tested and documented to be non-hazardous by "Characteristically Hazardous Waste

Testing" for Ignitability, Corrosivity, and Reactivity) under 40 CFR 261 Subpart C sections 261.21 – 261.23, July 1, 1992.

- RCRA Metals
- pH
- Eh
- Specific conductance
- Specific gravity
- Temperature
- General ground water quality parameters (general chemistry/cations and anions, including: fluoride, calcium, potassium, magnesium, sodium bicarbonate, carbonate, chloride, sulfate, total dissolved solids, cation/anion balance, pH, and bromide using the methods specified at 40 CFR 136.3.

Agua Moss shall analyze the injected fluids quarterly for the constituents identified in the Quarterly Monitoring List (below) to demonstrate that the injected fluids do not exhibit the characteristics of toxicity using the toxicity characteristic leaching procedure, EPA SW-846 test method 1311 (see Table 1, 40 CFR 261.24 (b)).

QUARTERLY MONITORING LIST			
EPA HW No.	Contaminant	SW-846 Methods	Regulatory Level (mg/L)
D004	Arsenic	6010C	5.0
D005	Barium	6010C	100.0
D018	Benzene	8021B	0.5
D006	Cadmium	6020A	1.0
D019	Carbon tetrachloride	8021B 8260B	0.5
D020	Chlordane	8081A	0.03
D021	Chlorobenzene	8021B 8260B	100.0
D022	Chloroform	8021B 8260B	6.0
D007	Chromium	6020A	5.0
D023	o-Cresol	8270D	200.0

D024	m-Cresol	8270D	200.0
D025	p-Cresol	8270D	200.0
D026	Cresol	8270D	200.0
D016	2,4-D	8151A	10.0
D027	1,4-Dichlorobenzene	8021B 8121 8260B 8270D	7.5
D028	1,2-Dichloroethane	8021B 8260B	0.5
D029	1,1-Dichloroethylene	8021B 8260B	0.7
D030	2,4-Dinitrotoluene	8091 8270D	0.13
D012	Endrin	8081A	0.02
D031	Heptachlor (and its epoxide).	8081A	0.008
D032	Hexachlorobenzene	8121	0.13
D033	Hexachlorobutadiene	8021B 8121 8260B	0.5
D034	Hexachloroethane	8121	3.0
D008	Lead	6020A 7421	5.0
D013	Lindane	8081A	0.4
D009	Mercury	7470A 7471B	0.2
D014	Methoxychlor	8081A 8270D	10.0

If o-, m-, and p-cresol concentrations cannot be differentiated, then the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/L. If the detection limit is greater than the regulatory level, then the detection limit becomes the regulatory level.

RECORD KEEPING: *Agua Moss, LLC* shall maintain records of all well related information and inspections required by this Discharge Permit at its Facility office for a minimum of five years and shall make those records available for inspection by OCD. Well records shall be sufficient for OCD to successfully complete audits of all incoming generator oilfield exempt and non-exempt wastes disposed at the facility.

QUARTERLY REPORTS: *Agua Moss, LLC* shall submit quarterly reports pursuant to 20.6.2.5208A NMAC to OCD's Environmental Bureau within 45 days of the end of the quarter. The quarterly reports shall include the following:

- The physical, chemical and other relevant characteristics of injection fluids;
- Monthly average, maximum and minimum values for injection pressure, flow rate and volume, and annular pressure; and
- The results of monitoring prescribed under Section 20.6.2.5207B NMAC.

Annual Reports: *Agua Moss, LLC* shall submit the annual report by June 1st of the following year. The annual report shall contain:

- Cover sheet marked as "Annual Class I Sunco Disposal #1, Agua Moss, LLC, UICI-005, 30-045-28653, date of report, and submitting person;
- Summary of Class I non-hazardous waste injection well operations for the year including a description and reason for any remedial or major work on the well with a copy of form C-103(s);
- Copy of Monthly injection/disposal volume, including the cumulative total should be carried over to each year;
- Maximum and average injection pressures;
- Copy of the quarterly chemical analyses shall be included with data summary and all *QAQC* and *DQO* associated information;
- Copy of any mechanical integrity test (MIT) chart(s), including the type of test, *i.e.*, duration, gauge pressure, etc. unless OCD has approved Monthly Continuous Monitoring Charts for MITs in lieu of individual MITs;
- Copy of Fall-Off Test charts;
- Summary tables listing environmental analytical laboratory data for quarterly waste fluid samples. Any 20.6.2.3103 NMAC constituent(s) found to exceed a water quality standard shall be highlighted and noted in the annual report. *Agua Moss, LLC* shall include copies of the most recent year's environmental analytical laboratory data sheets with *QAQC* summary sheet information in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) and EPA Standards;
- Brief explanation describing deviations from the normal injection operations;
- Results of any leaks and spill reports (include any C-141 reports);
- Area of Review (AOR) annual update summary with any new wells penetrating the injection zone within a 1-mile radius from the Sunco Disposal #1;
- Summary with interpretation of MITs, Fall-Off Tests, Bradenhead Tests, *etc.*, with conclusion(s) and recommendation(s);

- Summary of all major Facility activities or events, which occurred during the year with any conclusions and recommendations;
- Summary of any new discoveries of ground water contamination with all leaks, spills and releases and corrective actions taken; and,
- Permittee shall file its Annual Report in an electronic format with a hard copy submittal to OCD's Environmental Bureau.

Other Information:

- Agua Moss does not foresee in the present or reasonable foreseeable future that the discharge permit will result in concentrations in excess of the standards of Section 20.6.2.3103 NMOAC or the presence of any toxic pollutant at any place of withdrawal of water.

Filing Fee(s): Attached is the \$100.00 filing fee made payable to Water Quality Management Fund. Also attached is the \$4500.00 permit fee for this Class I well.

Attachment V

Attachment VI

**2017 AREA OF REVIEW
UNIT LETTERS ENCOMPASSED BY THE 2-MILE AOR**

Sec	TWN	RNG	UL	
1	29N	12W	ALL	
2	29N	12W	ALL	
3	29N	12W	ALL	
4	29N	12W	ACFJKNP	
9	29N	12W	ABH	
10	29N	12W	ABCDIJN	
11	29N	12W	ACDGHILOP	
12	29N	12W	AEFKM	
25	30N	12W	EMN	
26	30N	12W	FGLNOP	
27	30N	12W	LMP	
28	30N	12W	O	
33	30N	12W	GHIJK	
34	30N	12W	ALL	
35	30N	12W	ALL	
36	30N	12W	AEIMN	

Radius expanded to 2 miles for permit renewal requirements.

7 Wells were Plugged & Abandoned since last renewal in 2012.

API	Well Name	Well #	Current Operator	Type	Lease	Status	Sec	TWN	RNG	UL	Spud Date	TD	Surface Casing			INT Casing			Production Casing			Perfs	Packer	PLUGGED
													size	depth	Sacks TOC	size	depth	Sacks TOC	size	depth	Sacks TOC			
30-045-28653	SUNCO DISPOSAL	#001	Agua Moss	Salt Water Disposal	Private	Active	2	29N	12W	E	1/28/1992	4760	8.625	209	150 surf				5.5	4760	1010 surf	4350-4460	4282 10/15/07	4350-4460 TA'd
30-045-08783	PRE-ONGARD WELL	#001	Pre Ongard	Gas	Private	Plugged	1	29N	12W	F	7/9/2003	2090												12/31/1901
30-045-08793	Pre-Ongard		Southern union	Gas	Private	Plugged	1	29N	12W	E	3/16/1948	2125												3/16/1948
30-045-08641	PRE-ONGARD WELL	#003	Pre Ongard	Gas	Federal	Plugged	1	29N	12W	O	4/11/1998	2203												11/16/1981
30-045-08782	Cornell	5	Burlington	Gas	Federal	Plugged	1	29N	12W	G	9/30/1955	99999												4/28/1994
30-045-08656	Cornell	2	Energen Resources	Gas	Federal	Plugged	1	29N	12W	M	10/2/1955	1996												9/15/2005
30-045-34348	Allen Com	#100	Burlington	Gas	Federal	Plugged	1	29N	12W	B	10/22/2007	138												1/22/2009
30-045-08851	ALLEN A	#001	BP America	Gas	Private	Active	1	29N	12W	D	3/12/1961	6785	8.265	264	200 surf				4.5	6785	300 surf	6518-6718		
30-045-26214	ALLEN A	#001E	BP America	Gas	Federal	Active	1	29N	12W	L	3/22/1985	5825	8.625	318	225 surf				5.5	6622	820 surf	6425-6602		
30-045-08661	Dudley Cornell A	#001	BP America	Gas	Federal	Active	1	29N	12W	O	11/15/1960	6730	9.625	263	200 surf				4.5	6707	300 surf	6434-6587		
30-045-24129	Dudley Cornell A	#001E	BP America	Gas	Federal	Active	1	29N	12W	G	4/28/1980	6722	9.625	348	250 surf				4.5	6710	180 surf	6496-6629		
30-045-29538	Cornell	5R	Burlington	Gas	Federal	Active	1	29N	12W	A	4/14/1998	2225	7	131	45-53				3.5	2215	434-741	2029-2059		
30-045-29167	Hike	1	Dugan Production	Gas	Federal	Active	1	29N	12W	G	7/10/1994	3840	8.625	260	175 surf				4.5	3820	595 surf	3710-3718	3710	
30-045-31612	Cornell	2S	Southland Royalty	Gas	Federal	Active	1	29N	12W	O	7/27/1957	0	7	136	56 surf				4.5	2058	225 surf	1725-1921		
30-045-29539	Cornell	3R	Southland Royalty	Gas	Federal	Active	1	29N	12W	I	10/7/1955	0	7	131	45-53				3.5	2193	434-741	1991-2041		
30-045-32346	CORNELL	#002R	Southland Royalty	Gas	Federal	Active	1	29N	12W	M	7/22/2004	2152	7	137	90 surf				4.5	2151	310 surf	1702-1926		
30-045-27635	PRE-ONGARD WELL	#500		Gas	Federal	Plugged	2	29N	12W	M														12/31/1901
30-045-08713	McGrath SRC	#001	Burlington	Gas	Private	Plugged	2	29n	12w	j	7/7/1973	2136												1998
30-045-08797	Pre-Ongard		Southland	Gas	Private	Plugged	2	29n	12w	g	4/14/1948	2125												2/23/1984
30-045-30486	MCGRATH SRC	#001R	Burlington	Gas	Private	Plugged, Not Released	2	29N	12W	J	3/23/2001	2235												6/25/2010
30-045-08844	KATTLER	#001	Burlington	Gas	Private	Plugged	2	29N	12W	C	1/26/1945	2069	10	846	surf	5.5	1960		3.5	2050	205 surf	1961-2007		5/26/2012
30-045-33573	CORNELL COM	#500S	Burlington	Gas	Private	Plugged	2	29N	12W	P	3/18/2006	2210	7	132	34 surf	6.25	2210		4.5	2198	279 surf	1754-1939 1743-1924		1/23/2013
30-045-32241	BECK	#001R	Burlington	Gas	Private	Active	2	29N	12W	G	12/1/2004	2225	7	135	34 surf				4.5	2221	262 surf	1774-2077		
30-045-33811	BECK	#001S	Burlington	Gas	Private	Active	2	29N	12W	D	8/17/2006	2200	7	162	85 surf				4.5	2195	255 surf	1730-1951		

Submit 3 Copies To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Jun 19, 2008

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-045-08844
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No. FEE
7. Lease Name or Unit Agreement Name Kattler
8. Well Number 1
9. OGRID Number 14538
10. Pool name or Wildcat Fulcher Kutz PC

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other P&A

2. Name of Operator
Burlington Resources Oil Gas Company LP

3. Address of Operator
P.O. Box 4289, Farmington, NM 87499-4289

4. Well Location
 Unit Letter **C** : **990** feet from the **North** line and **1650** feet from the **West** line
 Section **2** Township **29N** Range **12W** NMPM **San Juan County**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
 5855' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK PLUG AND ABANDON
 TEMPORARILY ABANDON CHANGE PLANS
 PULL OR ALTER CASING MULTIPLE COMPL
 DOWNHOLE COMMINGLE

OTHER:

SUBSEQUENT REPORT OF:

REMEDIAL WORK ALTERING CASING
 COMMENCE DRILLING OPNS. P AND A
 CASING/CEMENT JOB

OTHER:

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

5/24/12 Notified Brandon Powell/OCD that we ran CBL which indicated cmt between 3/12" & 5 1/2" was not good. Unable to squeeze. Verbal approval received to proceed.

The subject well was P&A'd per the notification above and the attached report.
 5-29-12

Approved for plugging of wellbore only
 Liability under bond is retained pending
 Receipt of C-103 (Subsequent Report of Well
 Plugging) which may be found @ OCD web page
 under forms
 www.emnrd.state.us/oed

Spud Date:

Rig Released Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE *Dollie L. Busse* TITLE Staff Regulatory Technician DATE 6/12/12

Type or print name Dollie L. Busse E-mail address: dollie.l.busse@conocophillips.com PHONE: 505-324-6104

For State Use Only

APPROVED BY: *Brandon Bell* TITLE Deputy Oil & Gas Inspector, District #3 DATE 6/25/12
 Conditions of Approval (if any):

AV

RCVD JUN 25 '12
 OIL CONS. DIV.
 DIST. 3

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979
Farmington, New Mexico 87499
505-325-2627 *fax: 505-325-1211

Burlington Resources
Kattler #1

May 29, 2012
Page 1 of 2

990' FNL and 1650' FWL, Section 2, T-29-N, R-12-W
San Juan County, NM
Lease Number: FEE
API #30-045-08844

Plug and Abandonment Report
Notified NMOCD and BLM on 5/18/12

Plug and Abandonment Summary:

- Plug #1** with CIBP at 1911' pump 8 sxs (9.44 cf) Class B cement inside casing from 1911' to 1728' to cover the Pictured Cliffs interval.
- Plug #2** pump 10 sxs (11.8 cf) Class B cement with 2% CaCl inside casing from 1500' to 1271' to cover the Fruitland top.
- Plug #3** with CR at 594' pump 118 sxs (139.24 cf) Class B cement 111 sxs (130.98 cf) in annulus 2 sxs below cement retainer, 5 sxs (5.9 cf) above cement retainer leaves TOC at 594' to cover the Kirtland top.
- Plug #4** pump 154 sxs (181.72 cf) Class B cement 146 sxs (172.28 cf) in annulus, 2 sxs (2.36 cf) below cement retainer 6 sxs (7.08 cf) above cement retainer leaves TOC at 371' to cover the Ojo Alamo top.
- Plug #5** pump 222 sxs (261.96 cf) Class B cement down 3.5" casing from 97' to surface; circulate good cement returns out casing and bradenhead.
- Plug #6** pump 31 sxs (36.58 cf) Class B cement to top off casing and annulus; then install P&A marker.

Plugging Work Details:

5/21/12 MOL and RU. SDFD.

5/22/12 Check well pressures: casing 50 psi, tubing 11 psi. Fill out Hot Work Permit and weld 2" collar on 5-1/2" casing. Hot tap with 2" valve 0 psi and no cement. ND wellhead and NU companion flange. NU kill spool. NU BOP; unable to test due to style of donut. SI well. SDFD.

5/23/12 Check well pressures: tubing 0 psi, casing 50 psi and bradenhead 0 psi. Pull hanger; found tubing 1-1/2". Change out tubing equipment to 1-1/2" equipment and wait on 1-1/2" pipe rams. TOH and tally 61 joints 1-1/2" with 10' sub. RU A-Plus Wireline. Found trip 3.5" gauge ring to 1931'. RIH with 3-1/2 wireline CIBP and set at 1911'. TIH with tubing and tag CIBP at 1911'. RU pump to tubing. Load and establish circulation with 15 bbls of fresh water. Shut in casing. Pressure test casing to 800 psi. Spot Plug #1. PUH. SD due to high winds. SI well. SDFD.

5/24/12 Open up well; no pressures. Finish TOH. RU Blue Jet Wireline. Run CBL from 1800' to surface. Found cement between 5-1/2 x 3-1/2 but spotty to surface. B. Powell, NMOCD, approved to follow procedure as approved. RU A-Plus Wireline. Perforate 6 bi-wire squeeze holes at 1450'. Attempt to establish rate into squeeze holes; pressured up to 1200#. B.

Powell, NMOCD, approved procedure change. Spot Plug #2. PUH and WOC. TI Hand tag cement at 1320'. Perforate 6 bi-wire squeeze holes at 750'. Load casing with 5 bbls of water and establish rate 2 bpm at 250#. PU 3.5" wireline cement retainer and RIH; set at 708'. TIH with tubing and tag CR at 594'. Establish injection rate. Spot Plug #3. TOH and LD tubing. SI well. SDFD.

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979

Farmington, New Mexico 87499

505-325-2627 *fax: 505-325-1211

Burlington Resources
Kattler #1

May 29, 2012
Page 2 of 2

Plugging Work Details (cont'd):

5/25/12 Open up well; no pressures. Perforate 6 bi-wire squeeze holes at 550'. RIH with wireline CR. Before setting CR establish rate into squeeze holes 2 bpm at 250#. Set CR at 508'. Sting into CR and establish rate 2 bpm at 250#. Spot Plug #4. TOH with tubing. Perforate 6 bi-wire squeeze holes at 97'. ND BOP. ND kill spool. Break out wellhead. Too windy to rig down. SI well. SDFD.

5/29/12 Open up well; no pressures. Dig out wellhead with backhoe to expose 15" hole. RU pump to 3-1/2" casing and establish circulation out 15" hole with 10 bbls of water. Spot Plug #5. WOC. Issue Hot Work Permit. Cut off wellhead. Spot Plug #6. Install P&A marker. RD and MOL.

John Durham, NMOCD representative, was on location.
Jimmy Morris, MVCI representative, was on location.

Submit 3 Copies To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Jun 19, 2008

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-045-33573
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No. FEE
7. Lease Name or Unit Agreement Name Cornell Com
8. Well Number 500S
9. OGRID Number 14538
10. Pool name or Wildcat Basin FC / South Crouch Mesa FS
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5845' GR

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other P&A

2. Name of Operator
Burlington Resources Oil Gas Company LP

3. Address of Operator
P.O. Box 4289, Farmington, NM 87499-4289

4. Well Location
 Unit Letter **P** : **760** feet from the **South** line and **1135** feet from the **East** line
 Section **2** Township **29N** Range **12W** NMPM **San Juan County**

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

The subject well was P&A'd on 1/23/13 per the attached report.

RCVD FEB 15 '13
 OIL CONS. DIV.
 DIST. 3

Approved for plugging of wellbore only.
 Liability under bond is retained pending
 Receipt of C-103 (Subsequent Report of Well
 Plugging) which may be found @ OCD web
 page under forms
 www.emnrd.state.us/oed

Spud Date:

PNR Only

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE *Dollie L. Busse* TITLE Staff Regulatory Technician DATE 2/14/13

Type or print name Dollie L. Busse E-mail address: dollie.l.busse@conocophillips.com PHONE: 505-324-6104

For State Use Only

APPROVED BY: *Red Ball* TITLE Deputy Oil & Gas Inspector,
District #3 DATE 2-20-13

Conditions of Approval (if any):

AV

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979
Farmington, New Mexico 87499
505-325-2627 *fax: 505-325-1211

Burlington Resources
Cornell Com 500S

January 23, 2013
Page 1 of 2

760' FSL and 1135' FEL, Section 2, T-29-N, R-12-W
San Juan County, NM
Lease Number: FEE
API #30-045-33573

Plug and Abandonment Report
Notified NMOCD and BLM on 1/16/13

Plug and Abandonment Summary:

- Plug #1** with 12 sxs (14.16 cf) Class B cement inside casing from 2024' to 1866' to cover the Pictured Cliffs top.
- Plug #2** with 16 sxs (18.88 cf) Class B cement from 1681' to 1471' to cover the Fruitland top.
- Plug #3** with 33 sxs (38.94 cf) Class B cement with 2% CaCl from 814' to 379' to cover the Ojo Alamo and Kirtland tops.
- Plug #4** with 24 sxs (28.32 cf) Class B cement inside casing from 189' to surface to cover the surface casing shoe.
- Plug #5** with 28 sxs Class B cement found cement to surface in 4.5" casing and install P&A marker.

Plugging Work Details:

- 1/17/13 Road rig and equipment to location. Spot in and RU. Check well pressures: tubing 90 PSI, casing 90 PSI and bradenhead 0 PSI. RU relief lines and blow well down. ND wellhead. NU BOP. RU tubing equipment for 1-1/4". TOH and LD tally 1-1/4" 1 joint tubing 2', 8', 62 joints, jet pump nozzle EOT at 2030'. SI well. SDFD.
- 1/18/13 Check well pressures: tubing 0 PSI, casing 90 PSI and bradenhead 0 PSI. Change out tubing equipment and rams to 2-7/8" equipment. RU sub. Pull 2-7/8" tubing hanger and install stripping rubber and wiping rubber. TOH and LD tally 61 joints of 2-7/8" UFJ 6.4#, Jet pump EOT at 2023'. Pressure test pipe rams to 250 PSI for 15 minutes and 1500 PSI for 15 minutes, OK. PU and tally 65 joints (A-Plus) J 55 4.7# to EOT at 2024'. RU sand line. RIH with sinker bar found fluid level at 1900'. POH. Spot plug #1 with estimated TOC at 1866'. SI well. SDFD.
- 1/21/13 Check well pressures: no tubing, casing 130 PSI and bradenhead 0 PSI. PU 4.5" string mill. TIH with 30 stands (60 joints) 2-3/8" tubing. PU 2 joints tag cement at 1888'. LD 8 joints. TOH with 27 stands (54 joints) LD string mill. PU 4.5" DHS CR. TIH and set CR at 1681'. Pressure test tubing to 1000 PSI. Establish circulation. Attempt to pressure test unable to bleed down from 800 PSI to 600 PSI in 2 minutes, no test. TOH with 6' sub 27 stands (54 joints) LD setting tool. RU Blue Jet Wireline. Ran CBL from 1681' to surface, good cement from 1681' to 1370' and from 1100' to 40'. PU 4' tag sub TIH with 27 stands (54 joints) to 1681'. Spot plug #2 with estimated TOC at 1471'. SI well. SDFD.
- 1/22/13 Open up well; no pressures. TIH and tag cement at 1477'. Attempt pressure test to 800 PSI, bleed down to 600 PSI in 5 minutes, no test. Spot plug #3 with estimated TOC at 379'. SI well and WOC. TIH and tag cement at 392'. Pressure test to 300 PSI, OK. Attempt pressure test casing to 800 PSI and bleed down to 600 PSI in 5 minutes, no test. Spot plug #4 with estimated TOC at surface. SI well. SDFD.

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979

Farmington, New Mexico 87499

505-325-2627 *fax: 505-325-1211

Burlington Resources
Cornell Com 500S

January 23, 2013
Page 2 of 2

Plugging Work Details (continued):

1/23/13 Open up well; no pressures. Tag top of cement at surface. ND BOP and kill spool. Dig out wellhead. Fill out and perform Hot Work Permit. Cut off wellhead. Found cement at surface in 4.5" casing. Spot plug #5 and install P&A marker. RD & MOL.

Jim Morris, MVCI representative, was on location.

Submit 3 Copies To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Jun 19, 2008

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-045-08709
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No. FEE
7. Lease Name or Unit Agreement Name McGrath
8. Well Number 3
9. OGRID Number 14538
10. Pool name or Wildcat Basin Fruitland Coal
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5845' GR

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other P&A

2. Name of Operator
Burlington Resources Oil Gas Company LP

3. Address of Operator
 P.O. Box 4289, Farmington, NM 87499-4289

4. Well Location
 Unit Letter **J** : **1650** feet from the **South** line and **1650** feet from the **East** line
 Section **3** Township **29N** Range **12W** NMPM **San Juan County**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
 5845' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
 PERFORM REMEDIAL WORK PLUG AND ABANDON
 TEMPORARILY ABANDON CHANGE PLANS
 PULL OR ALTER CASING MULTIPLE COMPL
 DOWNHOLE COMMINGLE
 OTHER:

SUBSEQUENT REPORT OF:
 REMEDIAL WORK ALTERING CASING
 COMMENCE DRILLING OPNS. P AND A
 CASING/CEMENT JOB
 OTHER:

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

2/27/13 Notified Brandon Powell/OCD re Plug 2. Perf'd @ 1510', couldn't pump into. PT to 1000#. Verbal approval to POOH, & perf @ 1475'.

The subject well was P&A'd on 3/1/13 per the notification above and the attached report.

RCVD MAR 28 '13
 OIL CONS. DIV.
 DIST. 3

Spud Date: PNR ONLY

Rig Released Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Dollie L. Busse TITLE Staff Regulatory Technician DATE 3/28/13

Type or print name Dollie L. Busse E-mail address: dollie.l.busse@conocophillips.com PHONE: 505-324-6104

For State Use Only

APPROVED BY: Mona Kuehling TITLE Deputy Oil & Gas Inspector, District #3 DATE 4-1-13

Conditions of Approval (if any): Av

Approved for plugging of wellbore only.
 Liability under bond is retained pending.
 Receipt of C-103 (Subsequent Report of Well Plugging) which may be found @ OCD web page under forms
 www.emnrd.state.us/oed

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979
Farmington, New Mexico 87499
505-325-2627 *fax: 505-325-1211

Burlington Resources
McGrath #3

March 1, 2013
Page 1 of 2

1650' FSL and 1650' FEL, Section 3, T-29-N, R-12-W
San Juan County, NM
Lease Number: FEE
API #30-045-08709

Plug and Abandonment Report
Notified NMOCD and BLM on 2/25/13

Plug and Abandonment Summary:

- Plug #1** with 8 sxs (9.44 cf) Class B cement inside casing from 1837' to 1654' to cover the Fruitland Coal and Pictured Cliffs tops.
- Plug #2** with 43 sxs (50.74 cf) Class B cement 39 sxs (46.02 cf) in annulus, 2 sxs (2.36 cf) below CR, 2 sxs (2.36 cf) above CR leaves TOC at 1414' to cover the Intermediate Shoe.
- Plug #2a** with 44 sxs (51.92 cf) Class B cement 39 sxs (46.02 cf) in annulus, 2 sxs (2.36 cf) below CR, 3 sxs (3.54 cf) above CR leaves TOC at 1392' to cover the Intermediate Shoe.
- Plug #3** with 8 sxs (9.44 cf) Class B cement inside casing from 1345' to 1162' to cover the Fruitland top.
- Plug #4** with 74 sxs (87.32 cf) Class B cement 62 sxs (73.16 cf), 2 sxs (2.36 cf) below CR, 10 sxs (11.8 cf) above CR leaves TOC at 461' to cover the Ojo Alamo and Kirtland tops.
- Plug #5** with 278 sxs (328.04 cf) Class B cement in annulus displace to perf at 100' no circulation.
- Plug #5a** with 200 sxs (236 cf) Class B cement, 4 sxs (4.72 cf) in 3.5" casing, 196 sxs (231.28 cf) in annulus from 100' to 0' to cover the surface casing shoe.
- Plug #6** with 16 sxs Class B cement found cement in 3.5" casing down 15' and install P&A marker.

Plugging Work Details:

- 2/25/13 Rode rig and equipment to location. Spot in and RU. Check well pressures: tubing 50 PSI and casing 40 PSI. RU A-Plus valves blow well down. ND wellhead. Strip on kill spool and BOP. X-over tubing equipment to 1.5" equipment and handrails. SI well. SDFD.
- 2/26/13 Check well pressures: tubing 50 PSI and casing 50 PSI. Blow well down. Function test BOP. TOH and tally 29 stands, LD 2 joints, SN, 1 joint sawtooth collar (61 joints total) of 1.5" tubing, EOT at 1896'. Round trip 3.5" gauge ring to 1850'. TIH with 3.5" CIBP to 1837', set CIBP. Establish circulation. Pressure test casing to 800 PSI, OK. Spot plug #1 with estimated TOC at 1654'. TOH. SI well. Fill out and Perform Hot Work Permit. Perform Hot tap on 5.5" casing 0 PSI, no gas. SI well. SDFD due to windy conditions.

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979

Farmington, New Mexico 87499

505-325-2627 *fax: 505-325-1211

Burlington Resources
McGrath #3

March 1, 2013
Page 2 of 2

Plugging Work Details (continued):

- 2/27/13 Open up well; no pressures. No tubing. TIH with 1-11/16" bi-wire and perforate 3 holes at 1510'. Attempt to establish rate in squeeze holes pressured up to 1000 PSI then bled down to 600 PSI in 2 minutes. Note: B. Powell, NMOCD and J. Morris, MVCI approved procedure change. TIH with 1-11/16" bi-wire and perforate 3 holes at 1475'. Establish rate of 2 bpm at 800 PSI. TIH with 3.5" DHS CR and set at 1460'. TIH and tag CR at 1460'. Establish rate of 2 bpm at 800 PSI. Spot plug #2 with estimated TOC at 1414'. WOC. Attempt to pressure test casing, leak sting into CR, 2 bpm at 200 PSI. TIH and attempt to tag TOC, no tag. Note: called NMOCD to re-do plug #2. Establish circulation 2 bpm at 800 PSI. Spot plug #2a with estimated TOC at 1392'. SI well. SDFD.
- 2/28/13 Open up well; no pressures. TIH with wireline bar and tag TOC at 1345'. Note: B. Powell, NMOCD approved procedure change. TIH with bi-wire and perforate 3 holes at 1343'. Attempt to establish rate, pressured up to 1000 PSI. Note: M. Keuhling, NMOCD approved to spot balanced plug. Spot plug #3 with estimated TOC at 1162'. TIH with bi-wire and perforate 3 holes at 729'. Establish rate 2.5 bpm at 800 PSI. TIH with DHS CR and set CR at 690'. Establish circulation. Sting into CR and establish rate 2 bpm at 800 PSI. Spot plug #4 with estimated TOC at 461'. TIH with bi-wire and perforate 3 holes at 100'. ND BOP and kill spool. Dig out wellhead. Attempt to find 8-5/8" casing, dug down 20', no casing. Attempt to establish circulation, no circulation. Spot plug #5. SI well. SDFD.
- 3/1/13 Open up well, no pressures. Establish circulation out surface in hole around wellhead. Wait on water truck. Spot plug #5a with estimated TOC at surface. WOC. Check cement fell 1' on backside. Found cement in 3.5" casing down 15'. Spot plug #6 and install P&A marker. SI well. SDFD.

Monica Keuhling, NMOCD representative, was on location.

Paul Weibe, NMOCD representative, was on location.

Jim Morris, MVCI representative, was on location.

Submit 1 Copy To Appropriate District Office.
 District I - (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II - (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-045-30456
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Katy Com
8. Well Number #2
9. OGRID Number 14634
10. Pool name or Wildcat Aztec PC/Basin FC
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5686

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other

2. Name of Operator
Merrion Oil & Gas Corporation

3. Address of Operator
610 Reilly Ave Farmington, NM 87401

4. Well Location
 Unit Letter ___ P ___ : ___ 1199 ___ feet from the ___ South ___ line and ___ 1263 ___ feet from the ___ East ___ line
 Section 26 Township 30N Range 12W NMPM San Juan County

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Merrion Oil & Gas Corporation P&Ad the above mentioned well on 8/10/2015. Please see attached PA report.

OIL CONS. DIV DIST. 3

SEP 03 2015

Approved for plugging of wellbore only.
 Liability under bond is retained pending
 Receipt of C-103 (Subsequent Report of Well
 Plugging) which may be found @ OCD web
 page under forms
 www.emnrd.state.us/oed

PNR only

Spud Date:

[Empty box for Spud Date]

Rig Release Date:

[Empty box for Rig Release Date]

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE *Philana Thompson* TITLE Regulatory Compliance Specialist DATE 8/31/2015

Type or print name Philana Thompson E-mail address: pthompson@merrion.bz PHONE: 505-324-5336

For State Use Only

APPROVED BY: *Bob Bell* TITLE DEPUTY OIL & GAS INSPECTOR DISTRICT # 3 DATE 9/24/15
 Conditions of Approval (if any): AV

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979
Farmington, New Mexico 87499
505-325-2627 *fax: 505-325-1211

OIL CONS. DIV DIST. 3**SEP 03 2015**

Merrion O&G Corporation
Katy Com #2

August 10, 2015
Page 1 of 1

1199' FSL and 1263' FEL, Section 26, T-30-N, R-12-W
San Juan County, NM
Lease Number: FEE
API #30-045-30456

Plug and Abandonment Report
Notified NMOCD and BLM on 8/5/15

Plug and Abandonment Summary:

- Plug #1** with CR at 1850' spot 24 sxs (28.32 cf) Class B cement from 1850' to 1533' to cover the Pictured Cliffs interval and Fruitland perms. Tag TOC at 1588'.
- Plug #2** with 12 sxs (14.16 cf) Class B cement from 1475' to 1316' to cover the Fruitland Coal tops.
- Plug #3** with 24 sxs (28.32 cf) Class B cement from 572' to 255' to cover the Kirtland and Ojo Alamo tops.
- Plug #4** with squeeze holes at 177' and 127' spot 48 sxs (56.64 cf) Class B cement from 228' to surface good cement returns with 18 in and 15 out.
- Plug #5** with 16 sxs Class B cement top off casings and install P&A marker with coordinates N 36° 46' 46.5852" / W 108° 3' 46.8792".

Plugging Work Details:

- 8/5/15 Rode rig and equipment to location. SDFD.
- 8/6/15 Check well pressures: tubing TSTM, casing 40 PSI and bradenhead 0 PSI. Spot in rig and RU. Perform start well. X-over to rod equipment. Unseat pump and LD polish rod. LD 1-2', 3 6', 1-4' pony rod, 74 3/4" rods, pump onto gooseneck trailer. ND wellhead and NU BOP. Function test BOP. RU and x-over tubing equipment. LD 58 jnts, SN, 16' MA tall. Round trip A-Plus 4-1/2" string mill to 1890'. PU 4-1/2" DHS CR and set at 1850'. Pressure test tubing to 1000 PSI, OK. Establish circulation. Spot plug #1 with calculated TOC at 1533'. SI well. SDFD.
- 8/7/15 Open up well; no pressures. RU relief lines. TIH and tag TOC at 1588'. Attempt to pressure test bradenhead, no test 300 PSI to 0 PSI. Note: M. Keuhling, NMOCD approved procedure change. Establish circulation. Pressure test casing to 800 PSI, OK. Spot plugs #2 and #3. RU A-Plus wireline. Perforate 4 HSC squeeze holes at 177'. Attempt to circulate. Bradenhead pressured up to 500 PSI to 0 PSI in 20 seconds. Wait on orders. Perforate 4 HSC squeeze holes at 127'. Establish circulation. Spot plug #4 with TOC at surface. SI well. SDFD.
- 8/10/15 Open up well; no pressures. ND BOP. Dig out wellhead. Write Hot Work Permit. Cut off wellhead. Found cement in casing at surface and down 2.5' on backside. Spot plug #5 top off casings and install P&A marker with coordinates N 36° 46' 46.5852" / W 108° 3' 46.8792". RD and MOL.

Shacie Murray, Merrion Oil & Gas representative was on location.
John Durham, NMOCD representative was on location.

8-6-15

OIL CONS. DIV DIST. 3

SEP 03 2015

To: Merrin J. Ibas

Re: Katy 2 Fence

I see you are plugging the Katy 2.

I would like you to please leave the
fence up.

Thank You

Glen Spencer
Glen Spencer

Submit 1 Copy To Appropriate District Office
 District I - (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II - (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO.
~~30-039-08089~~ 30-045-09177

5. Indicate Type of Lease
 STATE FEE

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
 Paul Palmer

8. Well Number
 #1

9. OGRID Number
 14634

10. Pool name or Wildcat
 Flora Vista MV

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other

2. Name of Operator
 Merrion Oil & Gas Corporation

3. Address of Operator
 610 Reilly Ave, Farmington NM 87401

4. Well Location
 Unit Letter L: 2360 feet from the South line and 830 feet from the West line
 Section 26 Township 30N Range 12W NMPM San Juan County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
 5630

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

- PERFORM REMEDIAL WORK
- TEMPORARILY ABANDON
- PULL OR ALTER CASING
- DOWNHOLE COMMINGLE
- CLOSED-LOOP SYSTEM
- OTHER:
- PLUG AND ABANDON
- CHANGE PLANS
- MULTIPLE COMPL

SUBSEQUENT REPORT OF:

- REMEDIAL WORK
- COMMENCE DRILLING OPNS.
- CASING/CEMENT JOB
- OTHER:
- ALTERING CASING
- P AND A

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Merrion Oil & Gas Corporation plugged the above mentioned well on 8/14/2015. Please see attached plugging procedure.

Approved for plugging of wellbore only.
 Liability under bond is retained pending
 Receipt of C-103 (Subsequent Report of Well
 Plugging) which may be found @ OCD web
 page under forms
 www.emnrd.state.us/oed

OIL CONS. DIV DIST. 3
 SEP 25 2015

PNR ONLY

Spud Date: 9/13/1961

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Philana Thompson TITLE Regulatory Compliance Specialist DATE 9/23/2015

Type or print name Philana Thompson E-mail address: pthompson@merrion.bz PHONE: 505-324-5336

For State Use Only

APPROVED BY: [Signature] TITLE DEPUTY OIL & GAS INSPECTOR DATE 10/14/15
 Conditions of Approval (if any): DV DISTRICT #3

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979
Farmington, New Mexico 87499
505-325-2627 *fax: 505-325-1211

Merrion O&G Corporation
Paul Palmer #1

August 14, 2015

Page 1 of 2

2360' FSL and 830' FWL, Section 26, T-30-N, R-12-W
San Juan County, NM
Lease Number: FEE
API #30-045-09177

Plug and Abandonment Report
Notified NMOCD and BLM on 8/10/15

Plug and Abandonment Summary:

- Plug #1** with 32 sxs (37.76 cf) Class B cement from 3425' to 3003' to cover the Mesaverde top and fish. Tag TOC at 3332'.
- Plug #2 (combined #3)** with bi-wire holes at 2990 and CR at 1918' spot 516 sxs (608.88 cf) Class B cement from 2990' to 1192' with 82 sxs under, 55 sxs above and 379 sxs outside to cover the Chacra, Pictured Cliffs and Fruitland Coal.
- Plug #4** with squeeze holes at 530' spot 175 sxs (206.5 cf) Class B cement from 530' to surface. Tag TOC at 25'.
- Plug #5** with 36 sxs Class B cement top off casings and install P&A marker with coordinates N 36° 46' 58.44" / W 108° 04' 24.78".

Plugging Work Details:

- 8/10/15 Rode rig and equipment to location. Spot in and RU. Check well pressures: tubing 50 PSI, casing 100 PSI and bradenhead 0 PSI. RU relief lines. Perform start well. ND wellhead. NU BOP. Pull tubing hanger. Tubing hung up. Wait on weight indicator. SI well. SDFD.
- 8/11/15 Travel to location. Perform Hot Work Permit. Repair rig. RU and attempt to pull tubing. Could not work free. Pulling to 2700' approximately. PU Sandline tools with tools, sinker bar and jars and no-go. Check with depth meter, estimated at 3400'. LD tools. Attempt to work tubing free, unable. Note: P. Weibe, NMOCD and T. Saylers, BLM approved procedure change. RU A-Plus wireline. RIH with 2-3/8" GR to 3443'. Tight spot at 2600'. POH and LD GR. PU 2-3/8" tubing jet cutter RIH to 3401'. PU tubing 5k over cut tubing at 3401'. LD cutter. Free tubing and LD 31 jnts with 2 subs. Tubing and collars pitted as more LD. Shut down to get 2-3/8" MYT. LD 78 jnts collars on tubing. Look better had flat bottom for elevator. PU 4-1/2" GR to 1919' could not work past. SI well. SDFD.
- 8/12/15 Check well pressures: no tubing, casing 128 PSI and bradenhead 0 PSI. RU relief lines. Round trip 4-1/2" string mill to 1919', attempt to work past unable. Attempt to work past call for power swivel. RU pump attempt to mill fish. Pump total 60 bbls, no circulation. Attempt to work for 1 hr. RD power swivel. RU tubing. PU 2-3/8" SN and tag fish at 3425'. Establish circulation. Spot plug #1 with calculated TOC at 3003'. Note: P. Wiebe, NMOCD approved procedure change. TH with tubing. Establish circulation. SI well. SDFD.

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979

Farmington, New Mexico 87499

505-325-2627 *fax: 505-325-1211

Merrion O&G Corporation
Paul Palmer #1

August 14, 2015
Page 2 of 2

Plugging Work Details (continued):

8/13/15 Open up well; no pressures. RU relief lines. Tag TOC at 3332'. Note: P. Wiebe, NMOCD and B. Powell approved procedure change Plug #2. Pressure test casing to 800 PSI, OK. RU A-Plus wireline. RIH with 3-1/8" gun to 1919', could not get past. Wait on bi-wire gun. Perforate 4 bi-wire holes at 2990'. Establish rate of 3.5 bpm at 750 PSI. PU 4-1/2" wireline CR and set at 1918'. TIH with tubing and stinger, sting into CR. Establish circulation, found leaking in 9-5/8" casing through ground. Spot plug #2 combined #3 with calculated TOC at 1192'. RU A-Plus wireline. Perforate 3 HSC squeeze holes at 530'. Establish circulation. Found leak in 9-5/8" casing. Wait on water truck to vacuum cellar while pumping clean returns. Pump total 200 bbls of water. Circulate well. Note: B. Powell, NMOCD approved procedure change. Spot plug #3. SI well and WOC. SDFD.

8/14/15 Open up well; no pressures. RU relief lines. Tag TOC at 25'. Chip out cement behind blind rams. ND BOP. Dig out wellhead. Perform Hot Work Permit. Cut off wellhead. Found cement down 4' in 9-5/8" x 4-1/2" casing. Spot plug #5 top off casings and install P&A marker with coordinates N 36° 46' 58.44" / W 108° 04' 24.78". RD and MOL.

Shacie Murray, Merrion O&G representative was on location.
Paul Weibe, NMOCD representative was on location.

RECEIVED

Form 3160-5
(August 2007)

AUG 22 2013

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

Farmington Field Office
Bureau of Land Management

UNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. **SF-077922**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No. **McGrath SWD 4**

2. Name of Operator **Burlington Resources Oil & Gas Company LP**

9. API Well No. **30-045-25923**

3a. Address **PO Box 4289, Farmington, NM 87499**

3b. Phone No. (include area code) **(505) 326-9700**

10. Field and Pool or Exploratory Area **Mesaverde SWD**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Surface Unit B (NWNE), 800' FNL & 1730' FEL, Sec.34, T30N, R12W

11. Country or Parish, State **San Juan New Mexico**

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate in a new interval, a Form 3160-4 must be filed once Testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection)

7/12/13 The 4197' packer in procedure is not holding, asked permission to pump plug from 4374' to end of tbg @ 4213'. Called Steve Mason w/ BLM & Charlie Perrin w/ OCD. Both gave verbal approval.
7/16/13 The packer in hole was supposed to shut off water, asked approval to shoot tbg off @ 3896' & set 150' plug on top of it. Called Steve Mason w/ BLM & Charlie Perrin w/ OCD. Both gave verbal approval.
7/19/13 Plug 4&5 need to be combined as there is only 120' between them. Bill Diers on site w/ BLM, Called Brandon Powell w/ Ocd and got verbal approval.
7/19/2013 2nd call. Surface perfs @ 281' PT to 1000#-OK. Tied onto Bradenhead & pumped 5 bbl's water down (145') PT to 500# and test was good. Bill Diers on site w/ BLM wants to perf @ 125', run in tbg and circ to surface inside and in annulus. Called Brando Powell w/ OCD & got verbal approval.

RCVD AUG 26 '13
OIL CONS. DIV.
DIST. 3

The subject well was P&A'd on 7/25/13 per the above notifications and the attached reports.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
Kenny Davis Title **Staff Regulatory Technician**
Signature  Date **8/22/2013**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

RECORDED FOR RECORD

Approved by _____ Title _____ Date **AUG 22 2013**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office **FARMINGTON FIELD OFFICE**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instruction on page 2)

NMOCDA

2/16

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979
Farmington, New Mexico 87499
505-325-2627 *fax: 505-325-1211

Burlington Resources
McGrath SWD 4

July 22, 2013
Page 1 of 2

800' FNL and 1730' FEL, Section 34, T-30-N, R-12-W
San Juan County, NM
Lease Number: SF-077922
API #30-045-25923

Plug and Abandonment Report
Notified NMOCD and BLM on 7/8/13

Plug and Abandonment Summary:

- Plug #1** with 40 sxs (47.2 cf) Class B cement inside casing to 4212'. Tag TOC at 3896'.
- Plug #2** with 17 sxs (20.06 cf) Class B cement with 2% CaCl inside casing from 3893' to 3743' disp with 13.8# mud to cover the Mesaverde top.
- Plug #2a** with 23 sxs (27.14 cf) Class B cement inside casing from 3893' to 3690' disp with 13.8# mud to cover the Mesaverde top.
- Plug #2b** with CR at 3485' spot 88 sxs (103.84 cf) Class B cement inside casing with 59 sxs in annulus, 6 sxs below CR , 23 sxs above CR TOC at 3282' to cover the Mesaverde top.
- Plug #3** with CR at 2594' spot 48 sxs (56.64 cf) Class B cement inside casing from 2644' to 2489', 30 sxs in annulus, 6 sxs below CR, 12 sxs above CR TOC at 2489' to cover the Chacra top.
- Plug #4 (original plug #3 and plugs 4&5 combined)** with 49 sxs (57.82 cf) Class B cement inside casing from 1940' to 1508' to cover the Pictured Cliffs, Fruitland Coal tops.
- Plug #6** with 36 sxs (42.48 cf) Class B cement inside casing from 628' to 311' to cover the Kirtland and Ojo Alamo tops.
- Plug #7** with 37 sxs (43.66 cf) Class B cement inside casing from 281' to surface to cover the surface casing shoe.
- Plug #8** with 30 sxs Class B cement top off casings and install P&A marker.

Plugging Work Details:

- 7/10/13 Rode rig equipment to location. Spot in. Bump test H2S equipment. Check well pressures: tubing 600 PSI, casing 160 PSI and bradenhead TSTM. RU relief lines and blow well down. ND wellhead. NU BOP and noticed tubing started blowing. Shut in tubing. Pressured up to 1000 PSI. Attempt to blow well down. Wait on Phoenix. RU Phoenix and retrieve plug in tubing. RIH and set another plug at 4212'. Pressure still at 1000 PSI. Wait on orders. RIH and retrieve plug at 4212'. RIH and set another plug on/off tool at 4198'. Pressure still the same. SI well. SDFD. Note: Procedure change approved BLM/ NMOCD.
- 7/11/13 Bump test H2S equipment. Check well pressures: tubing 1040 PSI, casing and bradenhead 0 PSI. RU relief lines attempt to blow well down. SI well and wait on orders. RU Phoenix and RIH retrieve plug. Pump 80 bbls of water establish a rate of 2 bpm at 1200 PSI, SI tubing. Wait on acid. RU Baker Petrolite. Pump 500 gals acid with 1 bbl flush. RU pump to tubing and pump 24 bbls to spot acid at 2800'. SI tubing. Wait 30 minutes and pump 2 bbls to 3130'. SI well. SDFD.
- 7/12/13 Bump test H2S equipment. Check well pressures: tubing 1040 PSI, casing and bradenhead 0 PSI. Pump 10 bbls flush acid past packer and SI well. RU Phoenix. RIH and set plug at 4212' below packer. POH. Open tubing still flowing. SI pressure at 1040 PSI. Note: Procedure change approved BLM/NMOCD. Spot plug #1a with estimated TOC at 4212'. SI well. SDFD.

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979

Farmington, New Mexico 87499

505-325-2627 *fax: 505-325-1211

Burlington Resources
McGrath SWD 4

July 22, 2013
Page 2 of 2

Plugging Work Details (continued):

- 7/15/13 Bump test H2S equipment. Check well pressures: tubing 420 PSI, casing and bradenhead 0 PSI. RU relief lines tubing blew right down. SI for an hour and 0 PSI. Start mixing gel to VISC at 13.8#. Check pressure on tubing 0 PSI. Attempt to release off packer at 4196' unable to release. Wait on orders to jet cut tubing. SI well. SDFD.
- 7/16/13 Bump test H2S equipment. Open up well; no pressures. RU relief lines. RU Wireline Specialties. Tag TOC at 3896'. Note: Procedure change approved BLM/ NMOCD. RIH and cut tubing at 3893'. Pull tubing hanger. Establish circulation. Pump 60 bbls 13.8# mud. SI casing attempt to pressure test pump 4 bbls no pressure, pulled 1 joint discover need slip grip elevators. Wait on elevators. Regulator broken. SI well. SDFD.
- 7/17/13 Bump test H2S equipment. Open up well; no pressures. Establish circulation. Spot plug #1 with estimated TOC at 3743'. LD 1 joint, 2-6' subs, 2-4' sub, LD 118 joints (119 joints total) EUE 9.3# 3-1/2" at 3893'. Tally 124 joints 2-3/8" tubing, EUE 4.7#, A-Plus tubing. Tag top of 3.5" cut at 3893'. Establish circulation. SI casing attempt to pressure test to 820 PSI bled down to 780 PSI. Spot plug #1a with estimated TOC at 3690'. SI well. SDFD.
- 7/18/13 Bump test H2S equipment. Open up well; no pressures. Tag TOC at 3781'. RIH with 5.5" GR to 1362' unable to get down. Perforate 3 HSC squeeze holes at 3535'. Attempt to get rate, pumped 35 bbls 13.8# mud, no pressure. TIH with 5.5" string mill to 3507'. TIH with 5.5" DHS CR and set at 3485'. Pressure test tubing to 1000 PSI. Reverse circulate with 96 bbls till clean returns. Establish rate of 1.5 bpm at 900 PSI. Pressure test casing to 800 PSI, OK. Spot plug #2 with estimated TOC at 3282'. Reverse circulate from 3254' to 2644'. SI well. SDFD.
- 7/19/13 Bump test H2S equipment. Open up well; no pressures. Perforate 3 HSC squeeze holes at 2644'. Establish rate of 1 bpm at 1100 PSI. TIH with 5.5" DHS CR and set at 2594'. Establish circulation. Spot plug #3 with estimated TOC at 2489'. Reverse circulate 11 bbls from 2470' to 1960'. Establish circulation. Note: Procedure change approved BLM/NMOCD. Spot plug #4 (combined 4&5) with estimated TOC at 1508'. Reverse circulate with 8 bbls from 1471' to 620'. Spot plug #6 with estimated TOC at 311'. Perforate 3 HSC squeeze holes at 281'. Attempt to get circulation pressured up to 1000 PSI. Bradenhead pressured to 500 PSI. Note: Procedure change approved BLM/ NMOCD. Perforate 3 HSC squeeze holes at 125'. Establish circulation. Spot plug #7 with estimated TOC at surface. SI well. SDFD.
- 7/22/13 Bump test H2S equipment. Open up well; no pressures. Tag TOC at 8'. ND BOP and dig out wellhead. RU High Desert. Cut off wellhead. Top off casings. Spot plug #6 and install P&A marker. RD and MOL.

Jim Morris, MVCI representative, was on location.

Bill Diers, BLM representative, was on location.

Submit 3 Copies To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., 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

WELL API NO. 30-045-28177
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-11303-10
7. Lease Name or Unit Agreement Name FC State Com
8. Well Number 24
9. OGRID Number 217817
10. Pool name or Wildcat Basin Fruitland Coal

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)
 1. Type of Well: Oil Well Gas Well Other P&A

2. Name of Operator
ConocoPhillips Company

3. Address of Operator
 P.O. Box 4289, Farmington, NM 87499-4289

4. Well Location
 Unit Letter **M** : **1140** feet from the **South** line and **1220** feet from the **West** line
 Section **36** Township **30N** Range **12W** NMPM **San Juan County**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
5819' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
 PERFORM REMEDIAL WORK PLUG AND ABANDON
 TEMPORARILY ABANDON CHANGE PLANS
 PULL OR ALTER CASING MULTIPLE COMPL
 DOWNHOLE COMMINGLE

SUBSEQUENT REPORT OF:
 REMEDIAL WORK ALTERING CASING
 COMMENCE DRILLING OPNS. P AND A
 CASING/CEMENT JOB

OTHER:

OTHER:

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

The subject well was P&A'd on 3/26/13 per the attached report.

RCVD APR 24 '13
OIL CONS. DIV.
DIST. 3

Spud Date:

Rig Released Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE *Dollie L. Busse* TITLE Staff Regulatory Technician DATE 4/24/13

Type or print name Dollie L. Busse E-mail address: dollie.l.busse@conocophillips.com PHONE: 505-324-6104

For State Use Only

APPROVED BY: *Bob Bell* TITLE Deputy Oil & Gas Inspector, District #3 DATE 4/26/13
 Conditions of Approval (if any): RV

Approved for plugging of wellbore only.
 Liability under bond is retained pending
 Receipt of C-103 (Subsequent Report of Well
 Plugging) which may be found @ OCD web page
 under forms.
 www.emnrd.state.us/oed

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979

Farmington, New Mexico 87499

505-325-2627 *fax: 505-325-1211

Conoco Phillips
FC State Com #24

March 26, 2013

Page 1 of 1

1140' FSL and 1220' FWL, Section 36, T-30-N, R-12-W
San Juan County, NM
Lease Number: B-11303-10
API #30-045-28177

Plug and Abandonment Report
Notified NMOCD on 3/22/13 and BLM on 3/21/13

Plug and Abandonment Summary:

- Plug #1** pump 16 sxs (18.88 cf) Class B cement inside casing from 2044' to 1900' to cover the Pictured Cliffs top.
- Plug #2** with 49 sxs (57.82 cf) Class B cement inside casing from 1684' to 1241' to cover the Fruitland Coal top.
- Plug #3** with 43 sxs (50.74 cf) Class B cement inside casing from 809' to 421' to cover the Ojo Alamo and Kirtland tops.
- Plug #4** with 45 sxs (53.1 cf) Class B cement from 289' to surface to cover the surface casing shoe.
- Plug #5** with 40 sxs Class B cement found cement in 5.5" casing at surface and 9-5/8" x 5.5" casing 29' from surface and install P&A marker.

Plugging Work Details:

- 3/22/13 Road rig and equipment to location and RU. Open up well; no pressures. X-over to rod equipment. Pressure test tubing to 1000 PSI, OK. Unseat pump and LD polish rod with stuffing box, 72 - 3/4, 32' 3/4", 6 S. Balls and pump on Double S Hot Shot Float. Pump 10 bbls to kill well. ND wellhead. NU BOP and perform function test. Pressure test BOP to 1000 PSI and 500 PSI for 10 minutes. Pressure test bradenhead to 300 PSI for 10 minutes. Tally and TOH with 1 joint, 20' subs, 63 joints, f-nipple, MA total tally 2023' of tubing 4.7# EUE. SI well. SDFD.
- 3/25/13 Check well pressures: no tubing, casing 50 PSI and bradenhead 0 PSI. RU relief lines. TIH with 65 joints to 2044'. Tag fluid level at 1500'. Spot plug #1 with estimated TOC at 1900'. Round trip 5.5" string mill to 1700'. TIH with 5.5" DHS CR and set at 1684'. Establish circulation. Pressure test casing to 800 PSI, bled off. Spot plugs #2, #3 and #4. Dig out wellhead. SI well. SDFD.
- 3/26/13 Open up well; no pressures. ND BOP. RU High Desert perform Hot Work Permit. Cut off wellhead with air saw. Found cement in 5.5" casing at surface and 9-5/8" x 5.5" casing 29' from surface. Spot plug #5 and install P&A marker. RD & MOL.

Vic Montoya, MVCI representative, was on location.
Monica Kuehling, NMOCD representative, was on location.

Attachment VII

2016
 Quarterly
 Injection Report

	Average Pressure (psig)	Maximum Pressure (psig)	Minimum Pressure (psig)	Average Flow (gpm)	Maxium Flow (gpm)	Minimum Flow (gpm)	Average Annular Pressure (psig)	Maximum Annular Pressure (psig)	Minimum Annular Pressure (psig)	Average Volume (bpd)	Maximum Volume (bpd)	Minimum Volume (bpd)	Volume (barrels)	Total Cumulative Volume (barrels)	
	Previous year													14063784	
Jan-2016	2045.238	2250	1900	55.45138889	82.04583333	34.65	0	0	0	1901.19	2813	1188	39925	14103709	
Feb-2016	2026.19	2250	1900	57.775	89.36666667	40.745833	0	0	0	1980.857	3064	1397	41598	14145307	
Mar-2016	1702.174	1900	1500	17.90833333	43.60416667	4.8416667	0	0	0	586.0909	1495	0	12894	14158201	
	Previous Quarter													14158201	
Apr-2016	1683.333	2250	1550	17.28935185	43.3125	6.0958333	0	0	0	592.7778	1485	209	10670	14168871	
May-2016	1638.636	1900	1450	16.31064815	32.025	6.1541667	0	0	0	559.2222	1098	211	10066	14178937	
Jun-2016	1572.727	1975	1325	26.10902778	90.09583333	2.275	0	0	0	895.1667	3089	78	10742	14189679	
	Previous Quarter													14189679	
Jul-16	1572.727	1800	1400	22.203125	47.62916667	6.7958333	0	0	0	761.25	1633	233	9135	14198814	
Aug-16	1626.25	1800	1400	15.67416667	33.22083333	4.0541667	0	0	0	537.4	1139	139	8061	14206875	
Sep-16	1608.696	1850	1450	17.63611111	30.5375	1.9541667	0	0	0	604.6667	1047	67	10884	14217759	
	Previous Quarter													14217759	
Oct-2016	1692.045	1800	1500	13.4375	28.93333333	1.4291667	0	0	0	460.7143	992	49	9675	14227434	
Nov-2016	1690.476	2000	1550	21.57239583	42.4375	7.0291667	0	0	0	739.625	1455	241	11834	14239268	
Dec-2016	1735.714	2250	1450	16.21838235	42.72916667	4.375	0	0	0	556.0588	1465	150	9453	14248721	
	Total for year												184937	14433658	Life Of well injected

2015
 Quarterly
 Injection Report

	Average Pressure (psig)	Maximum Pressure (psig)	Minimum Pressure (psig)	Average Flow (gpm)	Maximum Flow (gpm)	Minimum Flow (gpm)	Average Annular Pressure (psig)	Maximum Annular Pressure (psig)	Minimum Annular Pressure (psig)	Average Volume (bpd)	Maximum Volume (bpd)	Minimum Volume (bpd)	Volume (barrels)	Total Cumulative Volume (barrels)	
	Previous year													13471572	
Jan-2015	1674.545	1750	1600	18.70277778	32.2875	4.725	0	0	0	641.2381	1107	162	13466	13485038	
Feb-2015	1678.5	1750	1600	15.855	26.36666667	7.2041667	0	0	0	543.6	904	247	10872	13495910	
Mar-2015	1638.636	1750	1600	17.79034091	32.725	5.075	0	0	0	609.9545	1122	174	13419	13509329	
	Previous Quarter													13509329	
Apr-2015	1628.409	1950	1400	25.46736111	98.29166667	2.5375	0	0	0	873.1667	3370	87	15717	13525046	
May-2015	1696.429	1800	1600	21.32520833	37.24583333	8.6041667	0	0	0	731.15	1277	295	14623	13539669	
Jun-2015	1775	2000	1700	26.69384058	72.39166667	7.8166667	0	0	0	915.2174	2482	268	21050	13560719	
	Previous Quarter													13560719	
Jul-15	1775	1900	1600	20.55742754	53.31666667	7.6416667	0	0	0	704.8261	1828	262	16211	13576930	
Aug-15	1739.13	2200	1600	30.89041667	79.04166667	4.55	0	0	0	1059.1	2710	156	21182	13598112	
Sep-15	1800	2000	1750	25.57536232	51.85833333	12.104167	0	0	0	876.8696	1778	415	20168	13618280	
	Previous Quarter													13618280	
Oct-2015	1814.13	2200	1750	41.66944444	79.68333333	8.1666667	0	0	0	1428.667	2732	280	34288	13652568	
Nov-2015	1947.917	2100	1750	70.05401235	92.60416667	43.458333	0	0	0	2401.852	3175	1490	64850	13717418	
Dec-2015	2044.231	2250	1900	66.63257576	85.225	32.1125	0	0	0	2284.545	2922	1101	50260	13767678	
	Total for year												296106	14063784	Life Of well injected

2014
 Quarterly
 Injection Report

	Average Pressure (psig)	Maximum Pressure (psig)	Minimum Pressure (psig)	Average Flow (gpm)	Maximum Flow (gpm)	Minimum Flow (gpm)	Average Annular Pressure (psig)	Maximum Annular Pressure (psig)	Minimum Annular Pressure (psig)	Average Volume (bpd)	Maximum Volume (bpd)	Minimum Volume (bpd)	Volume (barrels)	Total Cumulative Volume (barrels)	
	Previous year													13214274	
Jan-2014	1278.261	1400	550	0.91875	1.079167	0.7583333	250	250	250	31.5	37	26	63	13214337	
Feb-2014	1407.059	1850	420	18.31991	33.54167	2.5083333	33.33333	50	25	628.1111	1150	86	5653	13219990	
Mar-2014	1785.714	1950	1550	21.06222	32.375	1.1375	120	250	50	722.1333	1110	39	10832	13230822	
	Previous Quarter													13230822	
Apr-2014	1701.136	1875	1400	19.4473	35.81667	1.7791667	400	600	200	666.7647	1228	61	11335	13242157	
May-2014	1622.727	2150	1400	19.3213	31.00417	5.4833333	200	200	200	662.4444	1063	188	11924	13254081	
Jun-2014	1632.143	1800	1500	17.99	36.89583	2.7708333	300	300	300	616.8	1265	95	12336	13266417	
	Previous Quarter													13266417	
Jul-14	1632.143	1800	1550	17.29451	38.15	3.9375	300	300	300	592.9545	1308	135	13045	13279462	
Aug-14	1655.435	1750	1400	15.74079	32.9875	7.5833333	0	0	0	539.6842	1131	260	10254	13289716	
Sep-14	1613.095	1800	1400	20.7725	35.875	4.2	0	0	0	712.2	1230	144	14244	13303960	
	Previous Quarter													13303960	
Oct-2014	1630.682	1800	1400	17.97588	35.55417	8.6625	0	0	0	616.3158	1219	297	11710	13315670	
Nov-2014	1580.435	1750	1450	20.83047	46.1125	3.4416667	0	0	0	714.1875	1581	118	11427	13327097	
Dec-2014	1610.952	1800	1500	24.2943	38.7625	9.8291667	0	0	0	832.9474	1329	337	15826	13342923	
	Total for year												128649	13471572	Life Of well injected

2013
 Quarterly
 Injection Report

	Average Pressure (psig)	Maximum Pressure (psig)	Minimum Pressure (psig)	Average Flow (gpm)	Maximum Flow (gpm)	Minimum Flow (gpm)	Average Annular Pressure (psig)	Maximum Annular Pressure (psig)	Minimum Annular Pressure (psig)	Average Volume (bpd)	Maximum Volume (bpd)	Minimum Volume (bpd)	Volume (barrels)	Total Cumulative Volume (barrels)
													Previous year	13059140
Jan-2013	1630.435	1900	1450	8.937962	15.45833	1.808333	100	100	100	306.444	530	62	2758	13061898
Feb-2013	1757.5	1950	1500	12.075	16.1875	6.65	100	100	100	414	555	228	4554	13066452
Mar-2013	1742.857	1950	1500	11.11515	18.75417	0.0291667	100	100	100	381.0909	643	1	4192	13070644
													Previous Quarter	13070644
Apr-2013	1968.269	2250	1600	23.41951	36.89583	1.05	100	100	100	802.9545	1265	36	17665	13088309
May-2013	1950	2150	1700	11.85855	30.74167	1.7791	100	100	100	406.5789	1054	61	7725	13096034
Jun-2013	1955	2200	1550	11.68935	32.95833	4.725	50	50	50	400.7778	1130	162	7214	13103248
													Previous Quarter	13103248
Jul-2013	1765.217	2000	1500	8.715686	16.04167	2.4208333	75.08696	160	40	298.8235	550	83	5080	13108328
Aug-2013	1643.182	1900	1500	9.48125	22.28333	4.2291667	122.0455	200	55	325.0714	764	145	4551	13112879
Sep-2013	1676.19	1900	1450	10.56028	21.9625	0.9625	161.1905	220	75	362.0667	753	33	5431	13118310
													Previous Quarter	13118310
Oct-2013	1702.174	1850	1600	10.53946	21.11667	4.6375	144.7826	320	30	361.3529	724	159	6143	13124453
Nov-2013	1690.476	1850	1450	11.26806	23.5375	5.6875	167.619	350	40	386.3333	807	195	5795	13130248
Dec-2013	1626.19	2050	1400	18.83875	63.525	3.2083333	93.80952	250	0	645.9	2178	110	6459	13136707
													Total for year	77567
													13214274	Life Of well injected

January 23, 2017

Ms. Shacie Murray
Agua Moss LLC
P.O. Box 600
Farmington, New Mexico 87499

**Re: Sunco Disposal #1
Injection Water Quarterly Monitoring
4th Quarter 2016**

Dear Ms. Murray:

This report summarizes the sample collection, field screening, and laboratory analysis of the injection water at the Agua Moss LLC Sunco Disposal #1 well for the 4th Quarter 2016. Injection water of the Class I Sunco Disposal #1 well is assessed on a quarterly basis in accordance with 20.6.5207B NMAC.

Field Activities

Rule Engineering, LLC (Rule) personnel collected one injection water sample from the process line inside the pump building at the location on December 14, 2016. Injection water was discharged from the valve of the process line into a clean, 5-gallon bucket for field screening and transfer to laboratory sample containers.

Sample Collection and Field Screening Procedures

The injection water sample (S-2) was field screened for time sensitive parameters including pH, temperature, reduction potential (Eh), and specific conductance. Field screening was conducted utilizing a handheld water quality meter calibrated on the day of use with laboratory grade standards.

The sampled injection water was placed into laboratory supplied containers, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico.

Table 1. Field Screening and Laboratory Analytical Summary

Constituent	Laboratory Value	Field Measurement
<i>pH</i>	7.22	6.60
<i>Temperature</i>	--	10.6 °C
<i>Reduction Potential</i>	--	-351.2 mV
<i>Specific Conductance</i>	60,000 µmhos/cm	22,000 µmhos/cm
<i>Specific Gravity</i>	1.017	--

Constituent	Laboratory Value	Field Measurement
Total Dissolved Solids	31,100 mg/L	--
Bicarbonate (As CaCO₃)	662.8 mg/L CaCO ₃	--
Carbonate (As CaCO₃)	<2.000 mg/L CaCO ₃	--
Fluoride	<5.0 mg/L	--
Chloride	17,000* mg/L	--
Bromide	150 mg/L	--
Phosphorous, Orthophosphate	<2.5 mg/L	--
Sulfate	1,100* mg/L	--
Nitrite (as N)	<5.0 mg/L	--
Nitrate (as N)	<2.0 mg/L	--
Calcium	610 mg/L	--
Magnesium	46 mg/L	--
Potassium	190 mg/L	--
Sodium	11,000 mg/L	--
Reactive Cyanide	<0.00500 mg/L	--
Reactive Sulfide	0.490 mg/L	--
Corrosivity by pH	6.75	--
Flashpoint	Did not flash at 170°F	--

*Exceeded maximum contaminate level

QA/QC Considerations

Field measurements for time sensitive parameters including pH, temperature, reduction potential, and specific conductance more accurately reflect the characteristics of the injection water than laboratory results for these parameters due to their rapidly changing nature when removed from the stable environment of the process line. The hold time qualifier is indicated on the laboratory report for pH as the hold time of 15 minutes from collection was exceeded during transport prior to analysis.

A dilution due to matrix qualifier is indicated on the laboratory report for total dissolved solids due to an initial dilution made during sample preparation based on the visual observations of laboratory personnel indicating the need for the dilution. The reported concentration of total dissolved solids is sufficient for generalizations concerning overall water characteristics.

Results for chloride and sulfate exceed the maximum contaminate level reportable by the laboratory. However, the reported concentrations of chloride and sulfate are sufficient for generalizations concerning the overall water characteristics.

Rule

Closure and Limitations

This report is prepared for the exclusive use of Agua Moss LLC and is subject to the terms, conditions, and limitations stated in Rule's report and Service Agreement with Agua Moss LLC. All work has been performed in accordance with generally accepted professional environmental consulting practices. No other warranty is expressed or implied.

Rule Engineering appreciates the opportunity to provide services to Agua Moss LLC. If you have any questions, please contact me at (505) 325-1055.

Sincerely,
Rule Engineering, LLC

Heather M. Woods
Heather M. Woods, P.G.
Area Manager/Geologist

Attachments:
Laboratory Analytical Report (Hall: 1612861)



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

January 10, 2017

Heather Woods
Rule Engineering LLC
501 Airport Dr., Ste 205
Farmington, NM 87401
TEL: (505) 325-1055
FAX

RE: Sunco Disposal Well #1

OrderNo.: 1612861

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/15/2016 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 in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: S-2 (12/14/16)

Project: Sunco Disposal Well #1

Collection Date: 12/14/2016 2:25:00 PM

Lab ID: 1612861-001

Matrix: AQUEOUS

Received Date: 12/15/2016 8:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
SPECIFIC GRAVITY							Analyst: LGT
Specific Gravity	1.017	0			1	12/29/2016 3:27:00 PM	R39733
EPA METHOD 300.0: ANIONS							Analyst: LGT
Fluoride	ND	5.0		mg/L	50	12/16/2016 5:19:41 AM	A39441
Chloride	17000	1000	*	mg/L	2E	12/29/2016 12:02:53 AM	A39721
Nitrogen, Nitrite (As N)	ND	5.0		mg/L	50	12/16/2016 5:19:41 AM	A39441
Bromide	150	5.0		mg/L	50	12/16/2016 5:19:41 AM	A39441
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	12/15/2016 3:15:42 PM	R39441
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	12/15/2016 3:03:18 PM	R39441
Sulfate	1100	25	*	mg/L	50	12/16/2016 5:19:41 AM	A39441
SM2510B: SPECIFIC CONDUCTANCE							Analyst: JRR
Conductivity	60000	50		µmhos/cm	50	12/21/2016 6:08:14 PM	R39580
SM2320B: ALKALINITY							Analyst: JRR
Bicarbonate (As CaCO3)	662.8	20.00		mg/L CaCO3	1	12/19/2016 9:51:45 PM	R39516
Carbonate (As CaCO3)	ND	2.000		mg/L CaCO3	1	12/19/2016 9:51:45 PM	R39516
Total Alkalinity (as CaCO3)	662.8	20.00		mg/L CaCO3	1	12/19/2016 9:51:45 PM	R39516
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	31100	200	*D	mg/L	1	12/21/2016 9:42:00 PM	29306
SM4500-H+B: PH							Analyst: JRR
pH	7.22	1.68	H	pH units	1	12/19/2016 9:51:45 PM	R39516
EPA METHOD 200.7: TOTAL METALS							Analyst: TES
Calcium	610	10		mg/L	10	1/3/2017 10:08:00 PM	29318
Magnesium	46	1.0		mg/L	1	12/30/2016 5:23:23 PM	29318
Potassium	190	5.0		mg/L	5	12/30/2016 5:30:57 PM	29318
Sodium	11000	500		mg/L	500	1/4/2017 3:17:09 PM	29318

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
	D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified



Collected date/time: 12/14/16 14:25

L879353

Wet Chemistry by Method 9012 B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Reactive Cyanide	ND		0.00500	1	12/21/2016 20:01	<u>WG937712</u>

Wet Chemistry by Method 9034-9030B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Reactive Sulfide	0.490		0.0500	1	12/21/2016 11:00	<u>WG93747C</u>

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Corrosivity by pH	6.75		1	12/22/2016 11:50	<u>WG937745</u>

Sample Narrative:

9040C L879353-01 WG937745: 6.75 at 19.6c

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Flashpoint	DNF at 170 F		1	12/21/2016 14:31	<u>WG937344</u>

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

WG937712

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE



Wet Chemistry by Method 9012 B

L879353-01

Method Blank (MB)

(MB) R3186428-1 12/21/16 19:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Reactive Cyanide	U		0.0018	0.00500

Laboratory Control Sample (LCS) - Laboratory Control Sample Duplicate (LCSD)

(LCS) R3186428-2 12/21/16 19:46 - (LCSD) R3186428-3 12/21/16 19:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Reactive Cyanide	0.100	0.0906	0.108	91	108	85-115			18	20

1

2 Ss

3 Cn

4 Sr

5 Qc

6 GI

7 Al

8 Sc

ACCOUNT:

Hall Environmental Analysis Laboratory

PROJECT:

SDG:

L879353

DATE/TIME:

12/22/16 16:10



QUALITY CONTROL SUMMARY

L879353-01

WG937470

Wet Chemistry by Method 9034-9030B

Method Blank (MB)

(MB) R3186243-1 12/21/16 10:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Reactive Sulfide	U		0.00650	0.0500

Laboratory Control Sample (LCS) - Laboratory Control Sample Duplicate (LCSD)

(LCS) R3186243-2 12/21/16 10:57 • (LCSD) R3186243-3 12/21/16 10:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Reactive Sulfide	0.500	0.464	0.465	93.0	93.0	85.0-115			0.000	20

1

3 Ss

4 Cn

5 S

6 Qc

7 GI

8 H

9 Sc

QUALITY CONTROL SUMMARY

L879353-01

WG937745

Wet Chemistry by Method 9040C

_S79011-01 Original Sample (OS) • Duplicate (DUP)

(OS) L879011-01	12/22/16 11:50	(DUP) WG937745-1	12/22/16 11:50	DUP RPD	DUP RPD Limits
Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
SU	SU	%	%	%	%
7.10	7.09	1	0.141	10	10

Analyte
Corrosivity by pH

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD):

(LCS) WG937745-2	12/22/16 11:50	(LCSD) WG937745-3	12/22/16 11:50	LCS Rec.	Rec. Limits	RPD Limits
Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	%	%
SU	SU	SU	%	%	%	%
6.07	6.09	6.10	100	100	98.4-102	10

Analyte
Corrosivity by pH

1	2	3	4	5	6	7	8	9
C	Cl	Ss	Cr	Sr	OC	Gi	Al	Sc

WG937344

Wet Chemistry by Method D93/1010A

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



L879353-01

-S79889-01 Original Sample (CS) - Duplicate (DUP)

(OS) L879889-01 12/21/16 14:31 • (DUP) WG937344-3 12/21/16 14:31

Analyte	Original Result deg F	DUP Result deg F	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Flashpoint	130	128	1	1.55		20

Laboratory Control Sample: (LCS) - Laboratory Control Sample Duplicate (LCSD)

(LCS) WG937344-1 12/21/16 14:31 • (LCSD) WG937344-2 12/21/16 14:31

Analyte	Spike Amount deg F	LCS Result deg F	LCSD Result deg F	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Flashpoint	82.0	82.6	82.6	101	101	96 0-104			0.000	7

1. T

2. Ss

3. Cn

4. S-

5. Cc

6. GI

7. AI

8. Sc

ACCOUNT:
Hall Environmental Analysis Laboratory

PROJECT:

SDG:
L879353

DATE/TIME:
12/22/16 16:10



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description
-----------	-------------

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

1

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612861

10-Jan-17

Client: Rule Engineering LLC
 Project: Sunco Disposal Well #1

Sample ID	MB-29318	SampType:	MBLK	TestCode:	EPA Method 200.7: Total Metals					
Client ID:	PBW	Batch ID:	29318	RunNo:	39684					
Prep Date:	12/20/2016	Analysis Date:	12/28/2016	SeqNo:	1244074	Units:	mg/L			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID	LCS-29318	SampType:	LCS	TestCode:	EPA Method 200.7: Total Metals					
Client ID:	LCSW	Batch ID:	29318	RunNo:	39684					
Prep Date:	12/20/2016	Analysis Date:	12/28/2016	SeqNo:	1244075	Units:	mg/L			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	49	1.0	50.00	0	97.8	85	115			
Magnesium	48	1.0	50.00	0	96.8	85	115			
Potassium	49	1.0	50.00	0	97.9	85	115			
Sodium	48	1.0	50.00	0	96.3	85	115			

Sample ID	LLLCS-29318	SampType:	LCSLL	TestCode:	EPA Method 200.7: Total Metals					
Client ID:	BatchQC	Batch ID:	29318	RunNo:	39684					
Prep Date:	12/20/2016	Analysis Date:	12/28/2016	SeqNo:	1246095	Units:	mg/L			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	101	50	150			
Magnesium	ND	1.0	0.5000	0	103	50	150			
Potassium	ND	1.0	0.5000	0	114	50	150			
Sodium	ND	1.0	0.5000	0	134	50	150			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612861

10-Jan-17

Client: Rule Engineering LLC
Project: Sunco Disposal Well #1

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R39441	RunNo:	39441					
Prep Date:		Analysis Date:	12/15/2016	SeqNo:	1235232	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R39441	RunNo:	39441					
Prep Date:		Analysis Date:	12/15/2016	SeqNo:	1235233	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.1	90	110			
Phosphorus, Orthophosphate (As P)	4.7	0.50	5.000	0	94.9	90	110			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	A39441	RunNo:	39441					
Prep Date:		Analysis Date:	12/15/2016	SeqNo:	1235286	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Sulfate	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	A39441	RunNo:	39441					
Prep Date:		Analysis Date:	12/15/2016	SeqNo:	1235287	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	102	90	110			
Nitrogen, Nitrite (As N)	0.96	0.10	1.000	0	95.6	90	110			
Bromide	2.4	0.10	2.500	0	95.3	90	110			
Sulfate	9.7	0.50	10.00	0	96.9	90	110			

Sample ID	MB	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	A39721	RunNo:	39721					
Prep Date:		Analysis Date:	12/28/2016	SeqNo:	1244513	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612861

10-Jan-17

Client: Rule Engineering LLC
Project: Sunco Disposal Well #1

Sample ID	LCS	SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID:	LCSW	Batch ID: A39721		RunNo: 39721						
Prep Date:		Analysis Date: 12/28/2016		SeqNo: 1244514		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.8	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612861

10-Jan-17

Client: Rule Engineering LLC
Project: Sunco Disposal Well #1

Sample ID	mb-1	SampType:	mblk	TestCode:	SM2320B: Alkalinity					
Client ID:	PBW	Batch ID:	R39516	RunNo:	39516					
Prep Date:		Analysis Date:	12/19/2016	SeqNo:	1237543	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID	ics-1	SampType:	ics	TestCode:	SM2320B: Alkalinity					
Client ID:	LCSW	Batch ID:	R39516	RunNo:	39516					
Prep Date:		Analysis Date:	12/19/2016	SeqNo:	1237544	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	77.48	20.00	80.00	0	96.8	90	110			

Sample ID	mb-2	SampType:	mblk	TestCode:	SM2320B: Alkalinity					
Client ID:	PBW	Batch ID:	R39516	RunNo:	39516					
Prep Date:		Analysis Date:	12/19/2016	SeqNo:	1237567	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID	ics-2	SampType:	ics	TestCode:	SM2320B: Alkalinity					
Client ID:	LCSW	Batch ID:	R39516	RunNo:	39516					
Prep Date:		Analysis Date:	12/19/2016	SeqNo:	1237568	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	76.88	20.00	80.00	0	96.1	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612861

10-Jan-17

Client: Rule Engineering LLC
Project: Sunco Disposal Well #1

Sample ID	1612861-001ADUP	SampType:	DUP	TestCode:	Specific Gravity					
Client ID:	S-2 (12/14/16)	Batch ID:	R39733	RunNo:	39733					
Prep Date:		Analysis Date:	12/29/2016	SeqNo:	1244930	Units:				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Specific Gravity	1.018	0						0.0688	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612861

10-Jan-17

Client: Rule Engineering LLC
Project: Sunco Disposal Well #1

Sample ID	MB-29306	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID:	29306	RunNo:	39571					
Prep Date:	12/20/2016	Analysis Date:	12/21/2016	SeqNo:	1239259	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-29306	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	29306	RunNo:	39571					
Prep Date:	12/20/2016	Analysis Date:	12/21/2016	SeqNo:	1239260	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1050	20.0	1000	0	105	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: **RULE ENGINEERING LL**

Work Order Number: **1612861**

RcptNo: **1**

Received by/date: AG-12/15/16

Logged By: **Anne Thorne** 12/15/2016 8:10:00 AM *Anne Thorne*

Completed By: **Anne Thorne** 12/15/2016 1:17:12 PM *Anne Thorne*

Reviewed By: **aj** 12/15/16

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: 3 or 3 (unless noted)

Adjusted? _____

Checked by: AT 12/15/16

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

Chain-of-Custody Record

Client: Rule Engineering, LLC

Mailing Address: 501 Airport Dr, Ste 205
Farmington, NM 87401

Phone #: (505) 716-2797

email or Fax#: hwoods@ruleengineering.com

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

Accreditation
 NELAP Other _____

EDD (Type) _____

Turn-Around Time:

Standard Rush

Project Name:

Sunco Disposal Well #1

Project #:

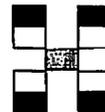
Project Manager:

Heather Woods

Sampler: Heather Woods

On Ice: Yes No

Sample Temperature: 4



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	See Remarks	RCI	Air Bubbles (Y or N)	
12/14/16	1425	Water	S-2 (12/14/16)	(2) 500 mL	non	1612861													X	X	
				(1) 500 mL	HNO ₃	00															
				(1) 500 mL	NaOH	00															
				(1) 500 mL	Zinc Acetate / NaOH	00															
				(1) 125 mL	H ₂ SO ₄	00															

Date: 12/14/16 Time: 1715 Relinquished by: Heather M. Woods Received by: Art Warr Date: 12/14/16 Time: 1715

Date: 12/14/16 Time: 1821 Relinquished by: Art Warr Received by: AMG Date: 12/15/16 Time: 0800

Remarks: Analyze for: pH, Eh, specific conductance, specific gravity, ~~total dissolved solids~~, and cations/anions including fluoride, calcium, potassium, magnesium, sodium bicarbonate, carbonate, chloride, sulfate, TDS, cation/anion balance, and bromide

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.

Rates per Andy Direct bill to Aqua Moss

Attachment XIII

Notice of Publication

Proposed

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 1220 South St. Frances Drive, Santa Fe, NM 87505, telephone 505-476-3440.

Agua Moss, LLC, PO Box 600, Farmington, NM 87499 has submitted a Discharge plan renewal application for their Class I Sunco Disposal #1 (Permit UIC-CLI-005) API 30-045-28653. The well is located 1595 FNL & 1005 FWL, Unit Letter E, Section 2, T29N, R12W, NMPM, San Juan County, NM. The well/facility is approximately 6 miles southwest of Aztec, NM at the intersection of County Road 3500 and 3773. This commercial oil field disposal well injects oilfield exempt and non-exempt, non-hazardous oil field into the Point Lookout formation from 4350-4460 feet at a daily rate not to exceed 4000 bbls and a maximum surface injection pressure of 2400 psi. The total dissolved solids (TDS) concentration of the typically injected fluid is approximately 24,000 milligrams/liter (mg/l). The TDS concentration of the water native to the injection interval and most likely to be affected by this discharge is 14,000 mg/l. Ground water most likely to be affected by accidental discharge is at a depth from 75-120 feet and has a TDS of approximately 450 mg/l. The discharge plan addresses construction, operation and monitoring of the well and associated surface facilities and provides a contingency plan in the event of accidental spills in the event of accidental spills, leaks and other accidental discharges to the surface of the ground.

Any interested person may obtain further information from the Oil Conservation Division (OCD) and must submit written comments to the OCD Director at the address above. Any interested person may also request to be placed on a facility-specific mailing and/or email list for future notices by notifying the OCD Environmental Bureau at 1220 South St. Frances Drive, Santa Fe, NM 87505 telephone 505-476-3440. The discharge permit application and draft discharge permit may be viewed at the above address between 8 AM and 4 PM Monday – Friday. The draft discharge permit may also be viewed at the OCD web site <http://www.emnrd.nm.us/ocd/>. Prior to thirty (30) days after the date of publication of this notice during which comments may be submitted and any interested person may request a public hearing. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the OCD Director determines there is a significant public interest.

If no public hearing is held, the OCD Director will approve or disapprove the proposed permit based on information available. If a public hearing is held, the OCD Director will approve or disapprove the proposed permit based on information in the permit and information submitted at the hearing.

Proposed Newspapers of publication:

1. The Daily Times- Farmington, NM
2. Will be published in English and Spanish is a display ad at least 2 x 3 inches NOT in the classified or legal notice section of the newspaper for 1-day duration.

Aviso de publicación

Propuesta

El aviso se da por este medio eso conforme a regulaciones de la Comisión del control de calidad del agua de New México, el uso siguiente del plan de la descarga se ha sometido al director de la división de la conservación de Petróleo, , 1220 impulsión del sur del St. Frances, Santa Fe, nanómetro 87505, teléfono 505-476-3440.

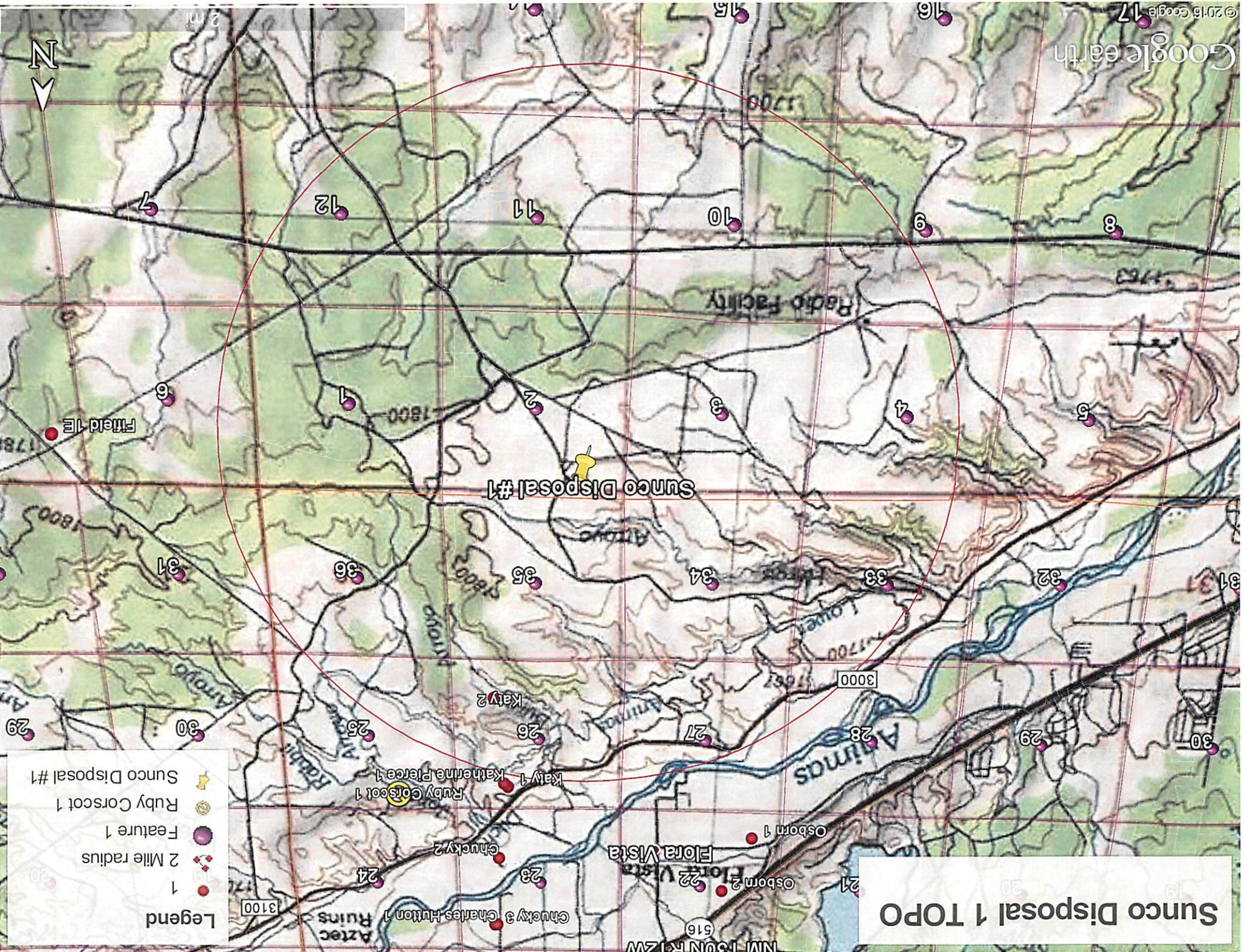
Agua Moss, LLC, PO Box 600, Farmington, NM 87499 ha presentado una solicitud de la renovación del plan de la descarga para su disposición #1 (Permiso de UIC-CLI-005) 30-045-28653. El pozo está ubicado en la Unidad E Carta, la Sección 2, T29N, R12W, NMPM, Condado de San Juan, NM. El pozo / instalación es de aproximadamente 6 kilómetros al suroeste de NM, en la intersección de County Road 3500 y 3773. Este desecho commercial yacimiento petrolífero, no es un desecho peligroso del campo de petróleo en la formación del punto de formación de 4350-4460 metros en una tarifa diaria que no exceda 4000 barriles y una presión de inyección máxima de 2400 psi. Los sólidos disueltos totales (TDS) concentración del fluido inyectado típicamente es de aproximadamente 24.000 miligramos por litro (mg / l). La concentración de TDS del agua nativo con el intervalo de inyección y más propensos a ser afectados por esta descarga es de 14.000 mg / l. El agua subterránea más que pueda verse afectado por la descarga accidental está a una profundidad de 75-120 metros y tiene un TDS de aproximadamente 450 mg / l. El plan de la descarga trata la construcción, la operación y la supervisión del pozo y de las instalaciones superficiales asociadas y proporciona un plan de contingencia en caso de derramamientos accidentales en caso de derramamientos accidentales, de escapes y de otras descargas accidentales a la superficie de la tierra.

Cualquier persona interesada puede obtener la información adicional de la división de la conservación de petróleo (OCD) y debe presentar comentarios escritos al director de OCD en la dirección antes mencionada. Cualquier persona interesada puede también pedir para ser colocado en un correo y/o una lista facilidad-específicos del email para los avisos futuros notificando el OCD Oficina ambiental en 1220 la impulsión del sur del St. Frances, Santa Fe, teléfono 505-476-3440 del nanómetro 87505. La solicitud del permiso de la descarga y el permiso de la descarga del proyecto se pueden ver en la dirección antes mencionada entre 8:00 am y 4:00 de la tarde lunes - viernes. El permiso de la descarga del proyecto se puede también ver en el Web site de <http://emnrd.nm.us.ocd/> TOC web. Antes de treinta (30) días después de la fecha de la publicación de este aviso durante la cual los comentarios pueden ser sometidos y de cualquier persona interesada puede solicitar una vista pública. Los solicitudes de una vista pública dispondrán las razones por las que una audiencia debe ser llevada a cabo. Una audiencia será llevada a cabo si el director de OCD determina que es de interés público significativo. Si no se lleva a cabo ninguna audiencia pública, el director de OCD aprobará o desaprobará el permiso propuesto basado en la información disponible. Si se lleva a cabo una audiencia pública, el director de OCD aprobará o desaprobará el permiso propuesto basado en la información en el permiso y la información presentada en la audiencia.

Prensa propuesta de publicación:

1. The Daily Times-Farmington, NM
2. Será publicada en Inglés y Español es un anuncio de pantalla de al menos 2 NO x 3 pulgadas en la sección de aviso clasificado o jurídica del periódico de la duración de 1 día.

MISC



Legend

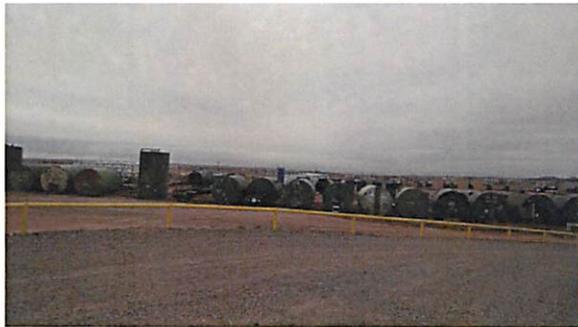
- 1 Mile radius
- 2 Mile radius
- Feature 1
- Ruby Corscot 1
- Sunco Disposal #1

Sunco Disposal 1 TOPO

OCD Facility Inspection (12/2/2014)



Looking SW away from filling dock



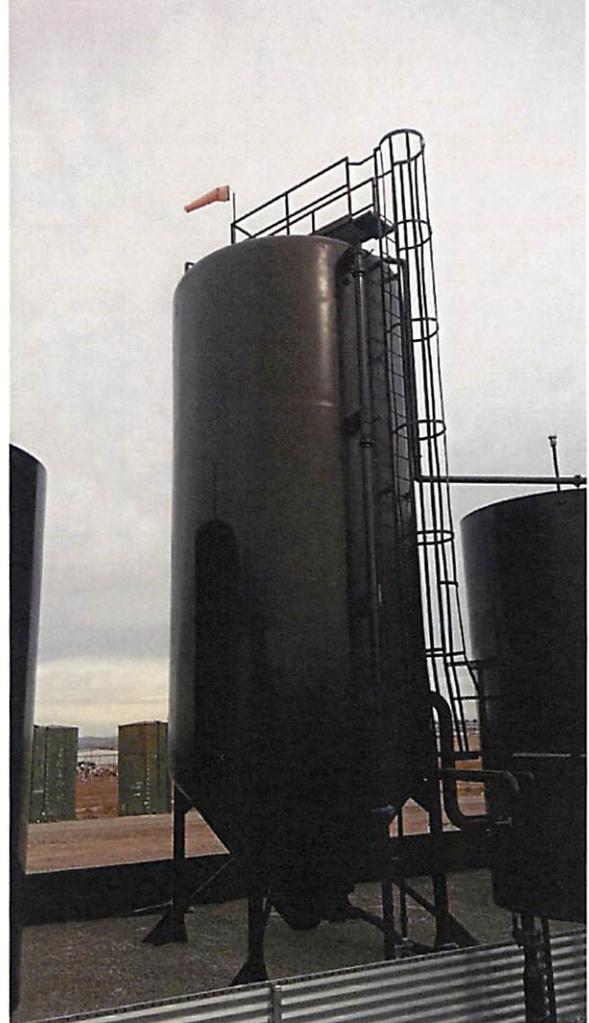
Looking W off facility property at Key Tanks



Looking S at office and filling dock



Looking South at tanks and filling dock



Looking E at Accumulator Tank



Looking E at Bulk Storage Tank



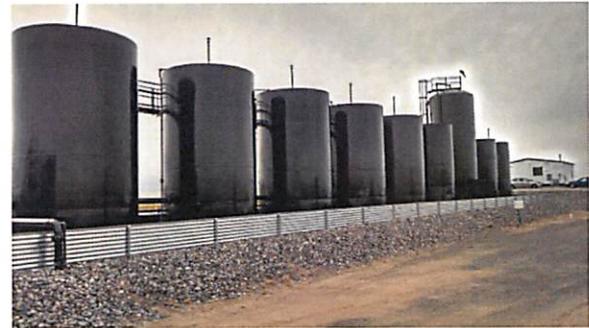
Looking SE at Tanks in series feeding into



Solids Holding Tank at S End of Tank Battery



Looking E at Produced Water Holding Tanks



Looking N-NW at Central Tank Battery



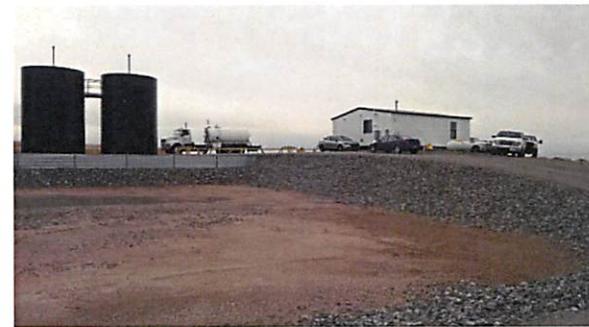
Looking E at Solids Holding Tank and Pit



Looking E-NE at Fresh Water Holding Tanks



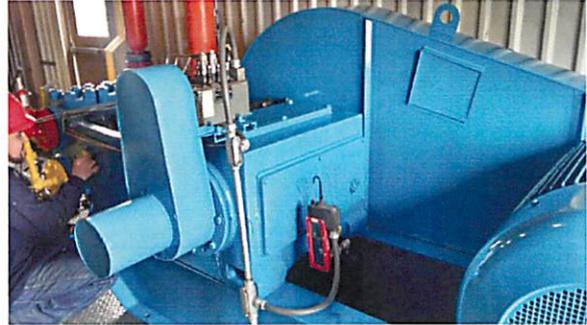
Looking SE at Solids Holding Tank and Pit



Looking NW at Office



Looking NW at Pump House and Electrical Building with Ethylene Glycol Saddle Tank



New pump in pump house to increase injection rate



Inside Electrical Building near Pump House



Pump lubrication fluid level meter



Looking SE at Tank Battery



New pump



Water spigot outside SW side of Pump House



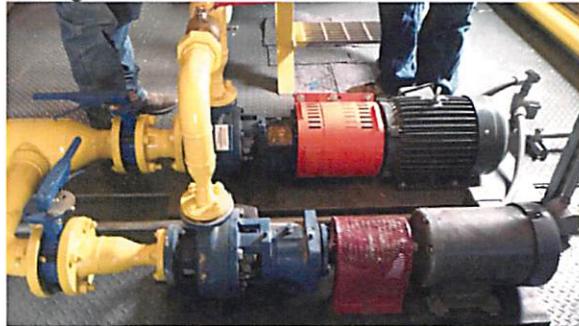
Yellow low-pressure & Red high-pressure lines in pump house



Incoming Tank Effluent Line into Pump House



Low pressure gauge on Effluent Line w/ Fire Extinguisher



Additional Pumps supplemented by 2 larger Pumps within Pump House



Maximum Surface Injection Pressure with Murphy Auto Shut-Off Switch in Pump House



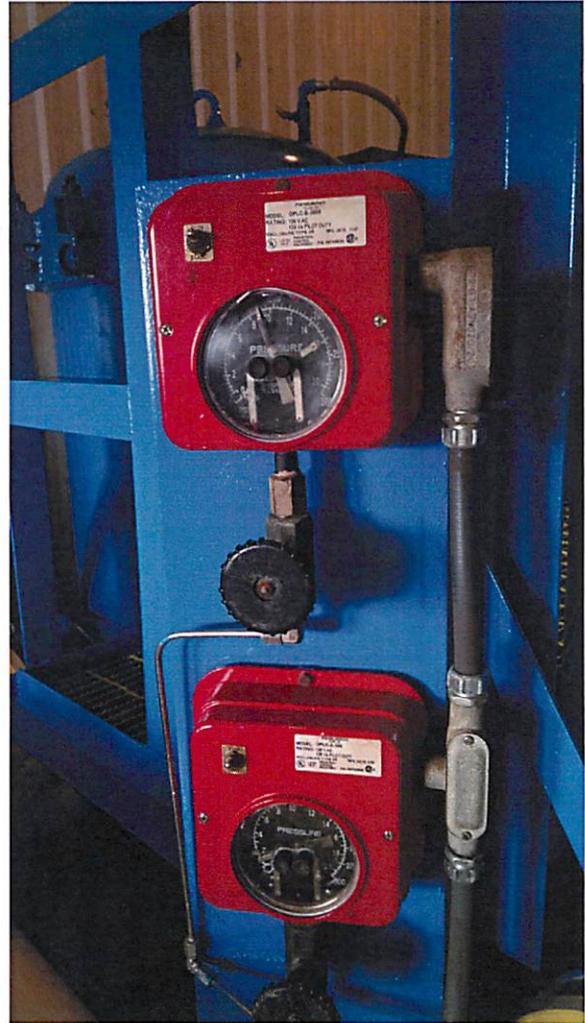
Low-pressure line gauge in Pump House



Flow Meter Totalizer with 20micron/5micron Filters in background



Flow Meter Totalizer in Pump House



In-line pressure gauges on Filtration Unit



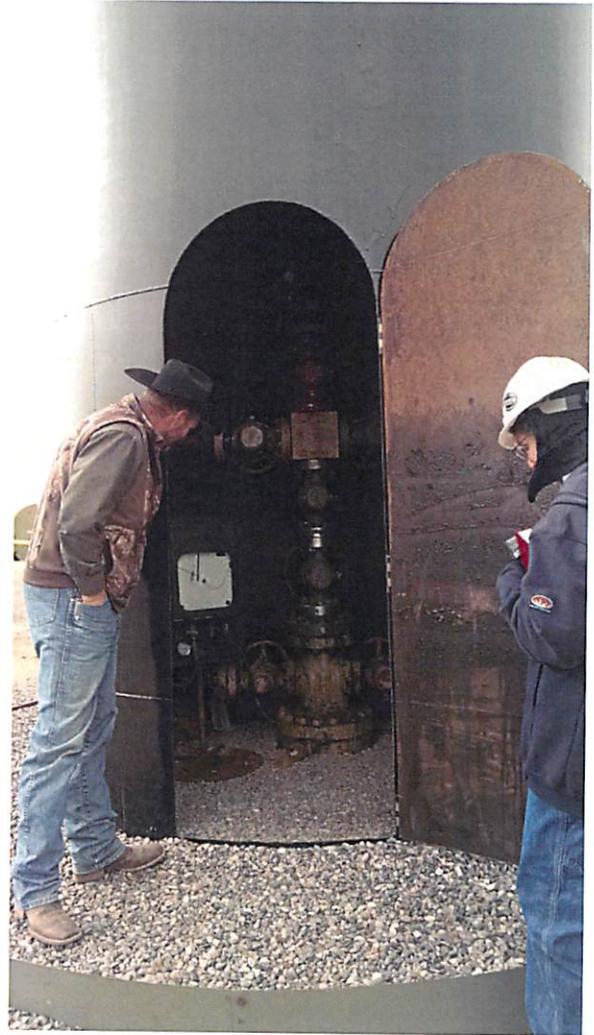
20micron/5micron Filtration Unit



Pump No. 2 in Pump House (two large pumps capable of ~ 155 gpm)



Pump house drainage grates



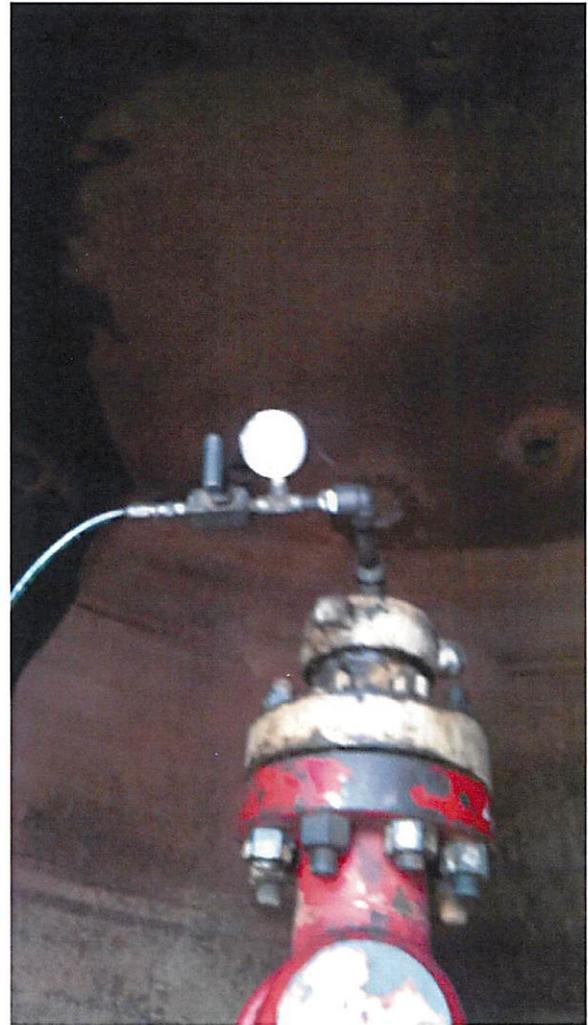
SUNCO WDW No. 1 with Chart Recorder
Encapsulated by Modified Tank



Above ground holding tank connected to pump
house drainage and filter change units



Pump turned on at ~ 167 bbls/hr at 1,800 psig well below MSIP of 2,400 psig



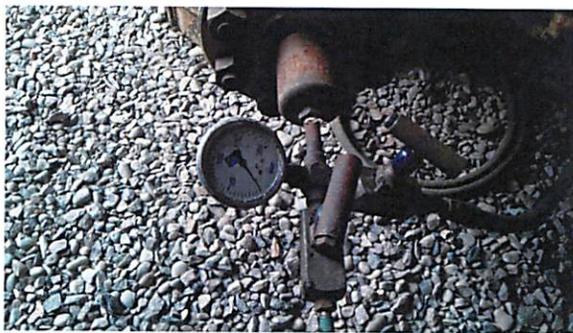
Gauge at top of injection well Christmas tree



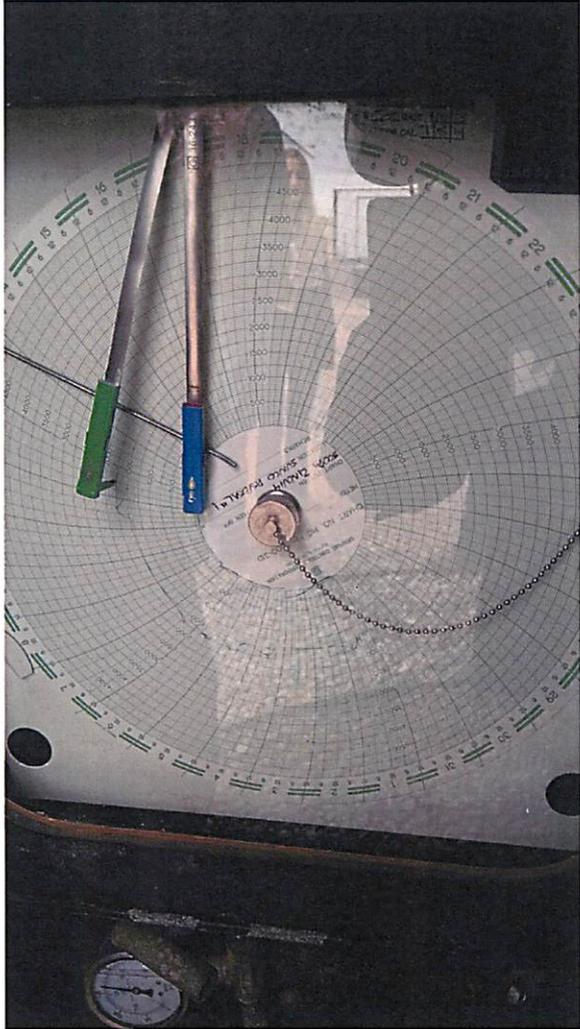
Bradenhead gauge at bottom of injection well



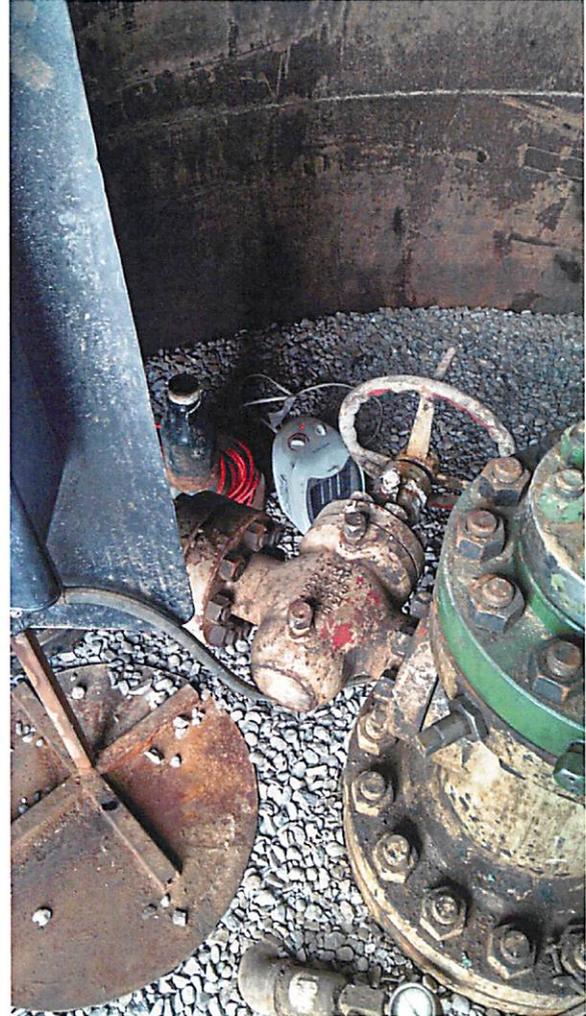
Surface injection pressure gauge



Bradenhead gauge



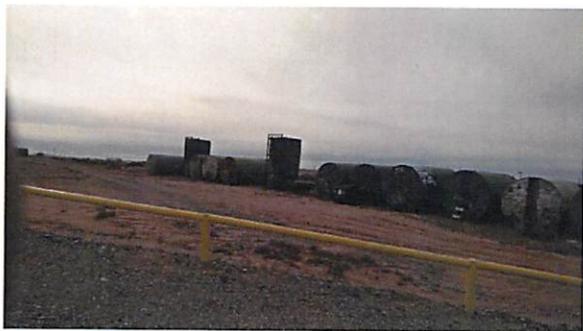
Pump started and annulus pressure flat and not anomalously fluctuating. Well is operating below the MSIP of 2,400 psig.



Bradenhead gauge at base of well head



Looking at top of well Christmas tree



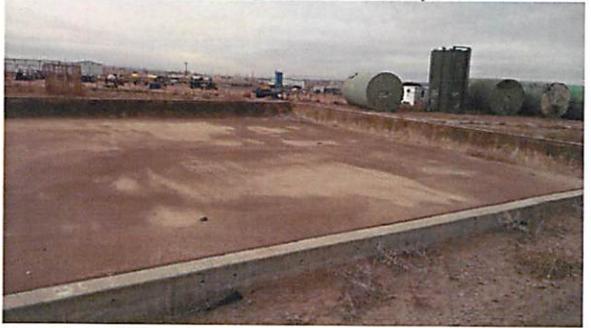
Looking W-SW at Key Tanks W of Agua Moss Facility



Looking N-NE across E property line



Looking E toward office and Tanks from Surface Waste Management Facility



Looking W at abandoned Key Tanks and Soil Mixing Bays on Surface Waste Mgt. Facility



Looking E at Central Tank Battery in Series from N to S (Surface Waste Management Facility Soil Mixing Pad Bay in Foreground)



Surface Waste Management Facility
Evaporation Pond slated for Decommissioning



Looking E at Central Tank Battery
(interconnected tanks extend S before injection)



Looking E at sample port at S end of tanks
before effluent line to pump house for injection



Looking E-SE at pump house



Agua Moss, LLC.

Chart Changing Procedure and Verification

- Charts will be changed on the first day of **EVERY** month. **NO EXCEPTIONS.**
- Valves to chart recorder will be closed and all pressure bled of recorder.
- Pull old chart off recorder– **Sign and Date.**
- Attach chart to this form and file by month in order.
- Record date, time, and location on new chart and index to first day.
- Check ink pen’s condition and change if needed.
- Install new chart with proper torque on thumb nut.
- Zero ink pens – Adjust if needed.
- Replace Battery every 4 months – Date battery.
- Slowly open valves to recorder and adjust damping valves if needed.
- Compare annular and well pressure gauges to recorder.
- Recorder will be calibrated by-annual.

Chart Change performed by:

Signature: _____

Print: _____

Date: _____

Adjustment or Repairs Required(Explain):



Load acceptance and C-138 Process

- **All loads accepted at the Sunco Class I facility must be logged and reference a complete and current C-138 on file.**
- **To ensure the completeness of the C-138 accepted for file, the following steps must be taken:**
 - A layover template is to be placed over the submitted C-138 to ensure all required fields have been properly filled in:
 - *All fields in an open window of the template must be completed for the C-138 to be accepted for waste acceptance at the facility*
 - If the RCRA Non-Exempt box is checked a non-hazardous demonstration must be provided with the C-138:
 - *MSDS Sheet*
 - *RCRA Hazardous Waste Analysis*
 - *Process Knowledge*
 - *Need a brief description of process to demonstrate Non-Hazardous classification*
 - *Other demonstration of non-hazardous classification*
- **To ensure the C-138s accepted for file are current the following steps must be followed:**
 - ALL C-138s must be renewed annually
 - C-138s are accepted on a site specific basis
 - *Example: Gas Plant Operator would need a separate C-138 for each plant*
 - Waste Generators must be notified to submit a new C-138 upon a change in their process or make-up of waste to be accepted at the facility
- **ALL C-138s must be kept at the facility for a minimum of two (2) years:**
 - Current (dated within a year) C-138s to be filed for easy access for logging of loads received
 - Expired (dated beyond a year but within last two (2) years) to be archived on site
 - Older C-138s will be scanned and kept electronically

Spill and Release Procedures

Sunco Disposal #1

30-045-28653

If a spill and/or release should occur at the Sunco Disposal #1 facility, the Yard Manager, Facility Manager, or designated supervisor will notify the Regulatory Compliance Specialist and coordinate with the facility employees to implement the following spill and/or release procedures:

1. Evacuate the area if necessary
2. Call emergency response personnel, if necessary
3. Stop operation of equipment that is the source of the release or spill, including closing valves, stopping pumps, etc.
4. Contain the spill using absorbent booms, a trench dug in the soil surrounding the spill, etc.
5. Deploy absorbent materials to soak up spilled material.
6. Once spill is contained and area where spill or release occurred has been secured, the yard manager or facility manager will gather information required for notifications and reports as required by the New Mexico OCD:
 - a. 19.15.29.8 Release Notification
 - i. Agua Moss shall notify the division of any unauthorized releases occurring during operations in accordance with the requirements of 19.15.29 NMAC
 - ii. Agua Moss shall notify the division in accordance with the 19.15.29 NMAC with respect to a release from a facility of oil or other water contaminants, in such quantity as may with reasonable probability be detrimental to water or exceed standards in Subsections A and B or C of 19.15.30.9 NMAC.
 - b. 19.15.29.9 Reporting Requirements
 - i. Agua Moss shall report a major release (defined as unauthorized release of a volume, excluding gases, in excess of 25 barrels. An unauthorized release of volume that results in fire, will reach a water course, endanger public health or damage property or the environment. Unauthorized release of gases in excess of 500 MCF or a release of volume that may with reasonable probability be detrimental to water or exceed standards in Subsections A and B or C of 19.15.30.9 NMAC) by giving both immediate verbal notice and timely written notice pursuant to Subsections A and B of 19.15.29.10 NMAC
 - ii. Agua Moss shall report a minor release (defined as an unauthorized release of volume, greater than five barrels but not more than 25 barrels; or greater than 50 MCF but less than 500 MCF of gasses) by giving timely written notice pursuant to Subsections B of 19.15.29.10 NMAC.
 - c. 19.15.29.10 Contents of Notification
 - i. Agua Moss shall provide immediate verbal notification within 24 hours of discovery to the Aztec NMOCD. In addition, Agua Moss shall provide immediate verbal notification of a release of a volume that may with reasonable probability

be detrimental to water or exceed the standards in Subsections A and B or C of 19.15.30.9 NMAC to the division's environmental bureau chief. The notification shall provide the information required on form C-141.

- ii. Agua Moss shall provide written timely notification within 15 days to the Aztec NMOCD by completing and filing form C-141. In addition, Agua Moss shall provide timely written notification of a release of a volume that may with reasonable probability be detrimental to water or exceed the standards in Subsection A and B or C of 19.15.30.9 NMAC to the division's environmental bureau chief within 15 days after the release is discovered. The written notification shall verify the prior verbal notification and provide appropriate additions or corrections to the information contained in the prior verbal notification.

- 7. The regulatory Compliance Specialist will submit an appropriate remediation plan as required per rule 19.15.29.11 Corrective Action, for approval before remediation is started. Remediation plans will be written in accordance with the NMOCD Rule 19.15.30.8 -19.15.30.21.